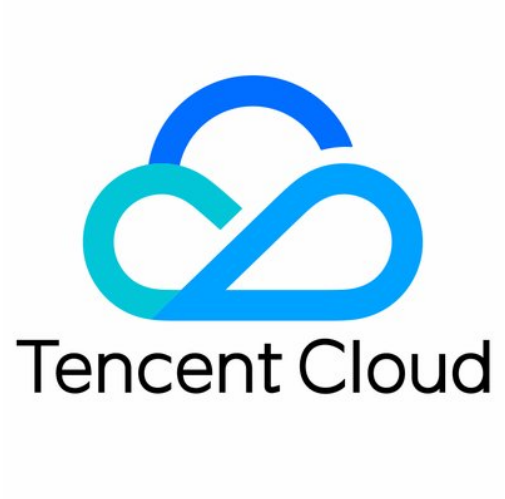
Cloud Object Storage

API Documentation

Product Documentation



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API Documentation

Introduction

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Tencent COS uses XML APIs, which are lightweight, connectionless, and stateless. By calling XML APIs, you can send requests and receive responses directly over HTTP/HTTPS to interact with the COS backend.
COS adopts a data transfer framework different from that of Tencent Cloud. Therefore, APIs and SDKs of COS are independent. For more information, please see the Operation List of COS APIs, or download the desired SDKs from SDK Overview. Note that the guides of Tencent Cloud APIs and the corresponding SDKs do not cover the operations of COS.
Note:
By using COS APIs, you acknowledge that you have read and agree to the General Service Level Agreements and Tencent COS Service Level Agreement.
For more information about the available regions of COS, please see Regions and Access Endpoints.
Before using APIs or SDKs to initiate a request, you are advised to read the Creating Request Overview document to learn more about access endpoints, authentication, and how to determine access via a private or public network.
For API formats of other Tencent Cloud services, please see APIs.

API Overview

For more information about the APIs supported by COS, please see Operation List.

COS Glossary

Terms and concepts you may see when using the APIs are described as follows:

Name	Description
APPID	A unique user-level resource identifier for COS access. It can be obtained at Manage API Key.
SecretId	A developer-owned ID used for the project. It can be obtained at Manage API Key.
SecretKey	A developer-owned secret key used for the project. It can be obtained at Manage API Key.
Bucket	A container used for data storage. For more information, please see Bucket Overview.
BucketName-APPID	A format used to name the bucket when you use an API or SDK. For example, **examplebucket-1250000000** means the examplebucket belongs to a user with an APPID of

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	1250000000.
Object	A file stored in COS. It is the basic entity that is stored.
ObjectKey	A unique identifier of an object stored in COS. For more information about objects and object keys, please see Object Overview.
Region	Region information. For more information about the enumerated values (such as ap-beijing, ap-hongkong, and eu-frankfurt), please see Regions and Access Endpoints.
ACL	Access Control List, a list of access control information for a specified bucket or object.
CORS	Cross-origin resource sharing This refers to the HTTP requests for resources from a different endpoint.
Multipart Uploads	An upload mode provided by Tencent Cloud COS.
Object Content	Binary of the uploaded files.

Getting Started

To use the Tencent COS APIs, take the following steps:

1. Activate COS in the COS console.
2. Create a bucket in the COS console.
3. In the CAM console, obtain `APPID` at Manage API Key. Then, create `SecretId` and `SecretKey`.
4. Write a request signature algorithm program (or use any server SDK). For more information, please see Request Signature.
5. Calculate the signature and call APIs to perform operations.

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Common Request Headers

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Description

This document introduces the common request headers used when you use APIs. The headers mentioned in the following text will not be reiterated in subsequent specific API documentation.

List of Request Headers

Header Name	Description	Type	Mandatory
Authorization	Signature information that carries authentication information to verify the legitimacy of the request. For public read objects, you do not need to carry this header. If you transmit the authentication information through request parameters, you do not need to carry this header. For details, see Request Signature.	string	Yes For public read objects or authentication information transmitted through request parameters, this header is optional.
Content-Length	Content length of an HTTP request defined in RFC 2616, which is measured in bytes.	integer	For PUT and POST requests (excluding PUT Object requests specifying the Transfer-Encoding request header), this header is mandatory. For GET, HEAD, DELETE, and OPTIONS requests, this header cannot be specified.
Content-Type	HTTP request content type (MIME) defined in RFC 2616, such as application/xml or image/jpeg.	string	For PUT and POST requests that contain a request body, this header is mandatory. For GET, HEAD, DELETE, and OPTIONS requests, this header cannot be specified.
Content-MD5	Base64 encoding format of the 16-byte binary MD5 hash value of the request body	string	For PUT and POST requests that have a request body

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	content defined in RFC 1864, which is used for integrity checks to verify whether the request body has undergone changes during transmission. The final value length should be 24 characters. Ensure that the correct methods and parameters are used when writing code. For instance, ZzD3iDJdrMAAb00lgLLeig==.		(excluding POST Object), this header is mandatory. For GET, HEAD, DELETE, and OPTIONS requests, this header cannot be specified.
Date	Current time in GMT format defined in RFC 1123, for instance, Wed, 29 May 2019 04:10:12 GMT.	string	No
Host	Requested host, formatted as <BucketName-APPID>.cos.<Region>.myqcloud.com.	string	Yes
x-cos-security-token	Security token field required when the temporary security credentials are used. For details, refer to the instructions related to temporary security credentials.	string	No When temporary keys are used and authentication information are carried via Authorization, this header is mandatory.

Dedicated Headers for SSE

For interfaces that support server-side encryption (SSE), the following request headers are applicable based on different encryption methods. Refer to the specific interface documentation to determine the applicability of SSE. The necessity of the following headers is only for scenarios that use SSE. If the request does not support SSE interfaces or does not use SSE, there is no need to carry the following headers. For more details, refer to the SSE overview.

SSE-COS

Header Name	Description	Type	Mandatory
x-cos-server-side-encryption	SSE algorithm, which is specified as AES256 when SSE-COS is used.	string	When uploading or duplicating objects (including simple uploading/duplication and multipart uploading/duplication), carrying this header will employ SSE-COS encryption. If this header is not carried, encryption will be implemented based on the bucket encryption configuration. This header cannot be specified when you download objects.

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SSE-KMS

Header Name	Description	Type	Mandatory
x-cos-server-side-encryption	SSE algorithm, which is specified as **cos**/**kms** when SSE-KMS is used.	string	When uploading or duplicating objects (including simple uploading/duplication and multipart uploading/duplication), carrying this header will employ SSE-KMS encryption. If this header is not carried, encryption will be implemented based on the bucket encryption configuration. This header cannot be specified when you download objects.
x-cos-server-side-encryption-cos-kms-key-id	When the value of **x-cos-server-side-encryption** is **cos**/**kms**, this header is used to designate the user primary key CMK of KMS. If this header is not specified, the default CMK created by COS is used. For more details, refer to SSE-KMS Encryption.	string	No
x-cos-server-side-encryption-context	When the value of **x-cos-server-side-encryption** is **cos**/**kms**, this header is used to specify the encryption context. The value is the Base64 encoding of the JSON formatted encryption context key-value pair. For instance, `eyJhIjoiYXNkZmEiLCJiIjoiMTIzMzIxIn0=` .	string	No

SSE-C

Header Name	Description	Type	Mandatory
x-cos-server-side-encryption-customer-algorithm	SSE algorithm. Currently only AES256 is supported.	string	Yes
x-cos-server-	Base64 encoding of the SSE key. For instance,	string	Yes

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side-encryption-customer-key	`MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNERUY=` .		
x-cos-server-side-encryption-customer-key-MD5	MD5 hash value of the SSE key, which is encoded in Base64. For instance, `U5L61r7jcwdNvT7frmUG8g==` .	string	Yes

Dedicated Headers for Object Lock

For interfaces that support object lock, the following object lock headers can be used for lock adding during the object uploading process. The necessity of the following headers is only applicable to scenarios using the object lock function. For more details, refer to Object Lock Overview.

Header Name	Description	Type	Mandatory
x-cos-object-lock-retain-until-date	Sets the object lock period, which is a timestamp used for setting the specific retention period. The value is represented in accordance with the ISO8601 standard and requires the use of the UTC time. For instance, `2022-02-17T10:30:09.000Z` .	String	Yes
x-cos-object-lock-mode	Sets the object lock mode. The `COMPLIANCE` mode is supported.	String	Yes

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Common Response Headers

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Overview

This document describes common response headers that may be used in API requests. The headers mentioned below will not be addressed again in related API documents.

Response Headers

Header	Description	Type
Content-Length	HTTP response length in bytes as defined in RFC 2616	string
Content-Type	HTTP response type (MIME) as defined in RFC 2616.	string
Connection	Indicates whether the network connection will be turned off after the response is complete, defined in RFC 2616. Enumerated values: `keep-alive`, `close`.	enum
Date	Server response time in GMT format as defined in RFC 1123, such as Wed, 29 May 2019 04:10:12 GMT.	string
ETag	An entity tag (ETag) identifies the object content upon creation, and can be used to check whether the object content is changed (for example: "8e0b617ca298a564c3331da28dcb50df"). The value of `ETag` is not necessarily the MD5 checksum of the object. The value will be different if the uploaded object is encrypted. To verify whether the object stored in the cloud is the same as the local one, you are advised to use the CRC64 value in the `x-cos-hash-crc64ecma` header.	string
Last-Modified	The time the object was last uploaded, e.g. Fri, 10 Apr 2020 18:17:25 GMT.	string
Server	Name of the server that accepts the request and returns the response. Default value: tencent-cos.	string
Transfer-Encoding	Transfer encoding format as defined in RFC 2616.	string
x-cos-hash-	CRC64 value of the object. For more information, see [CRC64 Check] (https://www.tencentcloud.com/document/product/436/34078)	integer

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crc64ecma		
x-cos-request-id	An ID automatically generated by the server for each request when it is sent.	string
x-cos-trace-id	An ID automatically generated by the server for each error when a request fails. This header will be included in the response only if the request has failed.	string

Server-Side Encryption Headers

For APIs that support server-side encryption (SSE) and use SSE in the request, the following response headers will be returned according to the specific encryption method. For more information, see Server-side Encryption Overview.

SSE-COS

Header	Description	Type
x-cos-server-side-encryption	If an object is uploaded with SSE-COS or an object encrypted with SSE-COS is downloaded, the request response will return this header, indicating the server-side encryption algorithm used during object upload.	string

SSE-KMS

Header	Description	Type
x-cos-server-side-encryption-customer-algorithm	If an object is uploaded with SSE-C or an object encrypted with SSE-C is downloaded, the request response will return this header, indicating the server-side encryption algorithm used during object upload	string
x-cos-server-side-encryption-cos-kms-key-id	Returns the customer master key (CMK) of the Key Management Service (KMS), if not specified, the default CMK created by COS will be returned.	string

SSE-C

Header	Description	Type
x-cos-server-side-	If an object is uploaded with SSE-C or an object encrypted with SSE-C is	string

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encryption-customer-algorithm	downloaded, the request response will return this header, indicating the server-side encryption algorithm used during object upload	
x-cos-server-side-encryption-customer-key-MD5	Base64-encoded MD5 hash of the server-side encryption key used during object upload, e.g., `U5L61r7jcwdNvT7frmUG8g==`	string

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Error Codes

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Overview

This document describes the error codes and the error messages returned when requests fail.

Error Response

Content-Type: application/xml
HTTP status codes could be 3xx, 4xx, or 5xx. Note that for the PUT Object - Copy API, even if the HTTP status code is 200, the response body may still include an error.

Response body

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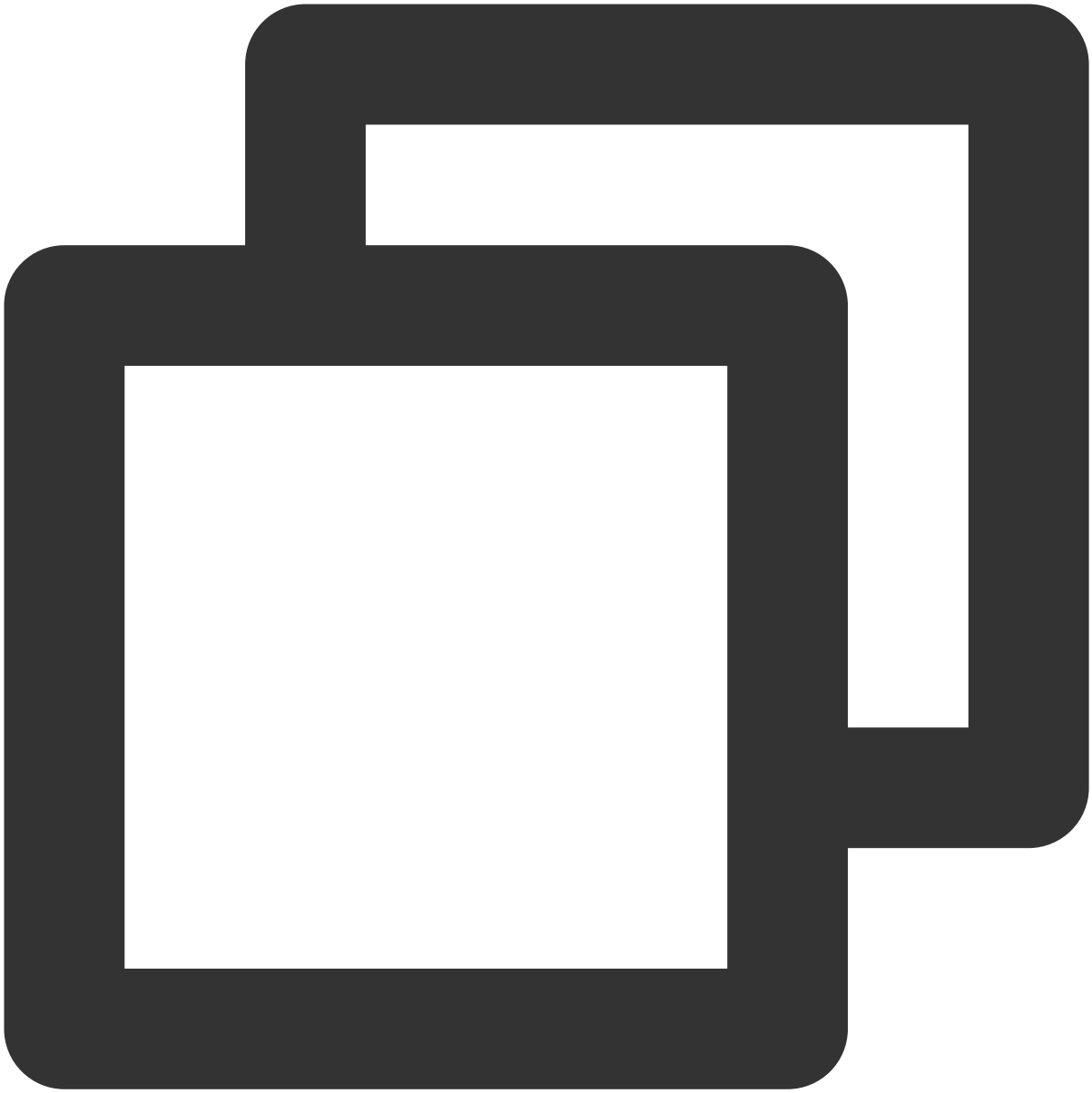

```
<?xml version='1.0' encoding='utf-8' ?>
<Error>
            <Code>string</Code>
            <Message>string</Message>
            <Resource>string</Resource>
            <RequestId>string</RequestId>
            <TraceId>string</TraceId>
</Error>
```

The nodes are described as follows:

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Node Name (Keyword)	Parent Node	Description	Type
Error	None	All error messages	Container

`Error` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Error	Error code, which uniquely identifies an error condition and determines the error scenario. Error codes are described in detail below.	string
Message	Error	Specific error message	string
Resource	Error	Requested resource, which can be a bucket or object URL	string
RequestId	Error	An ID automatically generated by the server when a request is sent. COS can use it to quickly locate faults	string
TraceId	Error	An ID automatically generated by the server when a request error occurs. COS can use it to quickly locate faults	string

Error Codes

4xx errors

HTTP Status Code	Error Code	Description
400 Bad Request	ActionAccelerateNotSupported	The acceleration endpoint does not support this operation.
400 Bad Request	AttachmentFull	The number of ACLs and policies has exceeded the upper threshold. For more information, please see Specifications and Limits.
400 Bad Request	BadDigest	Value of the provided Content-MD5 is not the same as the MD5 hash value the server received.
400 Bad Request	BadRequest	Parameter error.
400 Bad Request	BucketAccelerateNotEnabled	The acceleration endpoint is not enabled for the bucket

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400 Bad Request	BucketNameTooLong	The bucket name is too long. For more information, please see **Naming Conventions** in Bucket Overview
400 Bad Request	BucketVersionNotOpen	Versioning is not enabled for the bucket
400 Bad Request	DNSRecordVerifyFailed	The DNS record fails to be verified. Please add a CNAME or TXT record. The DNS record takes effect within 10 minutes
400 Bad Request	EntitySizeNotMatch	The size of the request body is not the same as that specified in the Content-Length request header
400 Bad Request	EntityTooLarge	The size of the uploaded object exceeds the upper threshold. For more information, please see Specifications and Limits
400 Bad Request	EntityTooSmall	The size of the uploaded object does not reach the lower threshold. This error is often seen in multipart uploads. For more information, please see Specifications and Limits
400 Bad Request	ExpiredToken	The temporary key token has expired
400 Bad Request	ImageResolutionExceed	The image resolution exceeds the limit, or the animated image contains too many frames
400 Bad Request	ImageTooLarge	The image is too large
400 Bad Request	IncompleteBody	The size of the request body is smaller than that specified in the Content-Length request header
400 Bad Request	IncorrectNumberOfFilesInPostRequest	Only one object can be uploaded in a POST Object request
400 Bad Request	InvalidArgument	The argument is invalid. Please check whether the request can take this argument
400 Bad Request	InvalidBucketName	The bucket name is invalid. For more information, please see Naming

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		Conventions
400 Bad Request	InvalidCopySource	The source for object replication is invalid
400 Bad Request	InvalidDelimiter	The `delimiter` parameter is invalid. It should be one character
400 Bad Request	InvalidDigest	The provided value of Content-MD5 is invalid
400 Bad Request	InvalidImageFormat	The image format is invalid
400 Bad Request	InvalidImageSource	The image source is invalid
400 Bad Request	InvalidLocationConstraint	The specified location is invalid
400 Bad Request	InvalidObjectName	The object name is invalid. For more information, please see ObjectKey
400 Bad Request	InvalidPart	One or more parts are missing
400 Bad Request	InvalidPartOrder	The part numbers are not continuous
400 Bad Request	InvalidPicOperations	The `Pic-Operations` request header is invalid
400 Bad Request	InvalidPolicyDocument	The policy in the POST Object request is invalid
400 Bad Request	InvalidRegionName	The endpoint is invalid. For more information, please see Regions and Access Endpoints
400 Bad Request	InvalidRequest	The request is invalid
400 Bad Request	InvalidSHA1Digest	The request fails the SHA-1 verification
400 Bad Request	InvalidTag	The bucket tag is invalid. For more information, please see Bucket Tag Overview
400 Bad Request	InvalidTargetBucketForLogging	The destination bucket for logging is invalid. The destination bucket must be in the same region as the current bucket
400 Bad Request	InvalidUploadStatus	If versioning is enabled, you cannot call a JSON API to upload objects. Please

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		use an XML API
400 Bad Request	InvalidURI	The URI is invalid
400 Bad Request	InventoryFull	The number of inventory jobs has exceeded the upper threshold (1,000)
400 Bad Request	JsonAPINotSupportOnMAZBucket	JSON APIs do not support operations on MAZ buckets. Please use XML APIs
400 Bad Request	KeyTooLong	The object key is too long. For more information, please see “ObjectKey” in Object Overview
400 Bad Request	KmsException	A Key Management Service (KMS) exception occurs
400 Bad Request	KmsKeyDisabled	The provided key is disabled
400 Bad Request	KmsKeyNotExist	The provided key does not exist
400 Bad Request	ListPartUploadIdIsEmpty	`UploadId` is empty
400 Bad Request	LoggingConfExists	The logging configuration already exists
400 Bad Request	LoggingPrefixInvalid	The logging prefix is invalid
400 Bad Request	MalformedPolicy	The policy format is invalid
400 Bad Request	MalformedPOSTRequest	The request body content of the current POST request is invalid
400 Bad Request	MalformedXML	The XML syntax of the request body is incorrect
400 Bad Request	MAZOperationNotSupportOnOAZBucket	OAZ buckets do not support multi-AZ operations. For the multi-AZ feature and its use limits, see Overview of Multi-AZ Feature
400 Bad Request	MissingRequestBodyError	The request body is missing
400 Bad Request	MultiAZFeatureNotSupport	The current region does not support the MAZ feature
400 Bad Request	MultiBucketNotSupport	Only one destination bucket can be set for cross-region replication
400 Bad Request	NotifyRuleEventConflict	Notification rules (event) conflict

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400 Bad Request	NotifyRulePrefixConflict	Notification rule prefixes conflict
400 Bad Request	NotifyRuleSuffixConflict	Notification rule suffixes conflict
400 Bad Request	NotSupportedStorageClass	The specified Storage Class is not supported
400 Bad Request	OAZOperationNotSupportOnMAZBucket	Multi-AZ buckets do not support OAZ operations. For the multi-AZ feature and its use limits, see Overview of Multi-AZ Feature
400 Bad Request	PolicyFull	The number of ACLs and policies exceeds the upper threshold. For more information, please see Specifications and Limits
400 Bad Request	PolicyVersionFull	The number of policy versions exceeds the limit
400 Bad Request	RequestTimeout	The request timed out
400 Bad Request	SsecDecryptHeaderInvalid	The source object is encrypted with SSE-C. Therefore, the same key should be provided in the request header
400 Bad Request	SSEContentNotSupported	The encryption method is not supported
400 Bad Request	SSEHeaderNotAllowed	The operation does not support the specified SSE header
400 Bad Request	TargetBucketNameInvalid	The destination bucket is invalid. For more information, please see Naming Conventions
400 Bad Request	TooManyBuckets	The number of buckets exceeds the upper limit (200)
400 Bad Request	UnexpectedContent	The request does not support the related content
400 Bad Request	UserCnameInvalid	The specified CNAME does not exist or is invalid
400 Bad Request	UserNetworkTooSlow	The network speed is too slow
400 Bad Request	VerifyAlgorithmNotSupported	The verification algorithm is not supported

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400 Bad Request	WebsiteURLInvalid	The custom URL is invalid
400 Bad Request	XMLSizeLimit	The length of XML exceeds the limit
402 Payment Required	PaymentRequired	The cost quota is used up
403 Forbidden	AccessDenied	The access is denied due to an incorrect signature or permission. For more information, please see Request Signature and ACL Overview
403 Forbidden	AccessForbidden	The cross-origin resource sharing (CORS) request is denied. Please check whether `Origin` , `Access-Control-Request-Method` , and `Access-Control-Request-Headers` in the request method or request header are in the configured CORS allowlist
403 Forbidden	InvalidAccessKeyId	The `SecretID` does not exist
403 Forbidden	InvalidObjectState	The storage class and requested operation conflict
403 Forbidden	NoProcessAuthority	You do not have permission to process images
403 Forbidden	RequestTimeTooSkewed	The difference between the local time and server time is more than 15 minutes
403 Forbidden	Request has expired	The signature has expired when you initiate the request, or your system time is out of sync with the time in your time zone. For more information, please see FAQs
403 Forbidden	SignatureDoesNotMatch	The client-calculated signature is inconsistent with that calculated on the COS server. You can refer to Request Signature and use COS's request signature tool to check the signature generation process
403 Forbidden	UserNotSourceBucketOwner	The current user is not the owner of the

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		source bucket
403 Forbidden	UserNotTargetBucketOwner	The current user is not the owner of the destination bucket
404 Not Found	InventoryConfigurationNotFoundError	The list of inventory configurations is not found
404 Not Found	NoBucketQuotaPolicy	The bucket quota policy is not found
404 Not Found	NoSuchBucket	The specified bucket is not found
404 Not Found	NoSuchCopySource	The source object to replicate is not found
404 Not Found	NoSuchCORSConfiguration	The specified CORS configuration is not found
404 Not Found	NoSuchEncryptionConfiguration	The specified bucket encryption configuration is not found
404 Not Found	NoSuchJob	The specified Batch Operation job is not found
404 Not Found	NoSuchKey	The specified object key is not found. You can call HEAD Object to check whether the object exists
404 Not Found	NoSuchLifecycleConfiguration	The specified lifecycle configuration is not found
404 Not Found	NoSuchObjectLockConfiguration	The specified object lock configuration is not found
404 Not Found	NoSuchPolicyVersion	The specified policy version is not found
404 Not Found	NoSuchTagSet	The specified tag set is not found
404 Not Found	NoSuchUpload	The `UploadId` specified in a multipart upload is not found
404 Not Found	NoSuchVersion	The specified version is not found
404 Not Found	NoSuchWebsiteConfiguration	The specified static website configuration is not found
404 Not Found	OriginConfigurationNotFoundError	The origin-pull configuration is not found
404 Not Found	ReplicationConfigurationNotFoundError	The configuration for cross-region

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		replication is not found
405 Method Not Allowed	MethodNotAllowed	The resource does not support this HTTP method
405 Method Not Allowed	RestoreNonArchiveObject	Non-ARCHIVED objects cannot be restored
405 Method Not Allowed	UploadIdNotSupported	The specified `UploadId` is generated by a JSON API. Therefore, you cannot operate with an XML API
409 Conflict	AppendPositionErr	The object length does not match `position` during the append operation
409 Conflict	BucketAlreadyExists	The specified bucket already exists
409 Conflict	BucketAlreadyOwnedByYou	The specified bucket already exists and is owned by the current account
409 Conflict	BucketLocked	The bucket is locked. In this case, cross-region replication and lifecycle are not supported
409 Conflict	BucketNotEmpty	The bucket is not empty
409 Conflict	DomainConfigConflict	The endpoint configurations conflict. Please delete the conflicting records
409 Conflict	InvalidBucketState	The bucket state conflicts with the request. For example, versioning configuration conflicts with cross-region replication
409 Conflict	InvalidLockedTime	The object lock time is invalid
409 Conflict	ObjectLocked	The object is locked. In this case, you cannot overwrite upload or delete the object, or modify the object metadata through copying
409 Conflict	InvalidObjectState	The object state conflicts with the request
409 Conflict	PathConflict	Millisecond-level concurrency conflict occurs for objects with the same name

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409 Conflict	QuotaConflict	Quota conflict
409 Conflict	QuotaOperationConflict	The bucket state does not support this operation
409 Conflict	RecordAlreadyExist	The DNS record conflicts. Please delete the conflicting record, or add a CNAME/TXT record
409 Conflict	RestoreAlreadyInProgress	The object is being restored
409 Conflict	UploadConflict	Uploading the same object key too many times causes a conflict
409 ObjectNotAppendable	ObjectNotAppendable	The specified object is not appendable
411 Length Required	MissingContentLength	The Content-Length request header is missing
412 Precondition Failed	PreconditionFailed	The precondition matching failed
416 Requested Range Not Satisfiable	InvalidRange	The requested object range is invalid
451 Unavailable For Legal Reasons	DomainAuditFailed	The domain name does not have an ICP license
451 Unavailable For Legal Reasons	UnavailableForLegalReasons	The service is unavailable. Please check whether your account has overdue payments. If not, check whether there are restricted files by referring to Content Compliance

5xx errors

HTTP Status Code	Error Code	Description
500 Internal Server Error	InternalError	Internal error of the server occurs
500 Internal Server Error	KmsInternalException	KMS internal error occurs
501 Not Implemented	NotImplemented	The request has not been implemented
503 Service Unavailable	KmsFreqControl	The KMS access frequency is too high
503 Service Unavailable	ServiceUnavailable	The service is unavailable. Please retry

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503 Service Unavailable	SlowDown	The access frequency should be slowed down

Data processing errors

Image download errors

Error Code	Description	Solution
-103	Invalid request. The request packet cannot be recognized	Check the content of the request
-104	Invalid APPID. The APPID contained in the URL is invalid, or the domain name is not bound to the APPID	Check whether the APPID is correct
-105	Invalid style name. The style name or alias specified in the URL is not set	Check the style configuration or style name
-106	Invalid URL. The URL format is invalid	Check the URL format
-107	Invalid Host header field	Check whether Host is correct
-108	Invalid Referer	Check the Referer configuration
-109	Invalid style name ID. The image corresponding to the style name is not found. This style name may have been added after the image was uploaded, and therefore data corresponding to this style name could not be generated when the image was uploaded	-
-110	The image is on the blocklist	-
-113	The file type is not supported	For the input file types supported by file preview, see Rules and Restrictions
-120	Data returned by the origin server is exceptional during origin-pull, and consequently image data cannot be properly retrieved	Check the data on the origin server
-124	A download offset error has occurred. The setting of Range (checkpoint restart offset) for the HTTP request may be incorrect	Check the checkpoint restart offset setting
-154	Download is prohibited for this URL by the original image protection mechanism	Use style access

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-156	Forcible execution of the 302 process	-
-162	Image downloading is not allowed due to overdue payment	Top up your account promptly
-163	The business configuration does not exist	Check related configuration items
-164	The request frequency is too high	Reduce the request frequency or submit a ticket to contact us
-165	Aggressive download requests are restricted	-
-166	The message format is invalid	-
-167	The image file is too large and cannot be downloaded	Reduce the size of the file
-168	The image file is too large and cannot be downloaded	Reduce the size of the file
-441	Unsupported image format. The image cannot be compressed	Use a CI supported image format for image processing. Valid formats: JPG, BMP, GIF, PNG, WEBP
-442	The image size exceeds the limit	Ensure that image dimensions are equal to or less than 9,999 pixels
-443	Unsupported image format	Use a supported image format. For details, see Rules and Restrictions
-447	Image resolution exceeds the limit or the GIF file contains too many frames	Limit image dimensions to 9999 pixels (limit the frame number of GIF files)
-901	Compression timeout	-
-902	Origin-pull times out. Specifically, when the image storage feature forwards a request to the developer's origin server, the timer expires before a response is received	Check the origin server data or origin-pull configuration
-3006	The file is encrypted and cannot be parsed	-

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-3008	The file is empty and cannot be parsed	-
-3011	The file type is not supported	For the input file types supported by file preview, see Rules and Restrictions
-3015	The requested page number does not exist	-
-3075	This file exceeds 100 MB and cannot be parsed	Ensure that the file size is equal to or less than 100 MB
-5062	The image may be illegal	Check whether the content of the image is illegal
-6101	The image does not exist, is not uploaded, or has been deleted	Check the source data of the request
-29033	The download request does not contain a valid range	-
-29034	The download offset is greater than the file size	-
-29214	Frequency control is triggered	Reduce the request frequency, or submit a ticket to contact us
-40168	The original image is null	Check the raw data of the request
-46152	The bucket name is invalid	Check whether the bucket name is valid
-46154	The APPID is invalid	Check whether the APPID is valid
-46614	Downloading is not allowed for a file that is being uploaded	Send the download request after the file upload is completed
-46617	An entry on the blocklist is hit	Check whether the content of the image is illegal
-46618	Signature authentication fails	Check whether the signature is correct

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-46619	The signature has expired	Update the signature
-46620	The bucket is blocked	Your bucket is blocked. Submit a ticket for further assistance
-46621	The bucket is blocked	Your bucket is blocked. Submit a ticket for further assistance
-46627	The user is currently on the blocklist	Your account is blocked. Submit a ticket for further assistance
-46628	The file does not exist	Check whether the file to be downloaded exists
-46642	The APPID does not exist	Check whether the APPID is correct
-46646	The file is blocked	The file is blocked. Check whether the content of the file is illegal
-46661	No access permission	Contact the resource owner for permission

Image persistence processing errors

Error Code	Description	Solution
-60998	An image processing parameter is invalid	Check whether image processing rules are correct
-60997	The number of image processing rules exceeds the limit	Persistence processing currently supports a maximum of five rules. Therefore, ensure that at most five rules are configured
-60996	The file is too large to process	Ensure that the file size is less than or equal to 32 MB
-60987	Failed to retrieve the image	Check the URL of the image
-60983	Invalid host	Check the host
-60972	Invalid region	Check if the region in the request supports CI. For more information

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		on regions that support CI, see Regions and Domain Names
-60967	The image style does not exist	Check the image style
-60957	The number of used styles exceeds the limit	Currently, a maximum of 100 styles are supported. If you need more styles, submit a ticket to contact us
-60955	Invalid URL	Check whether the URL is correct
-60950	No file is specified	Specify the file to be processed in the request
-60949	The request frequency is too high	Reduce the request frequency. To increase the frequency limit, submit a ticket
-60948	The account is suspected of violation	Your APPID is blocked. Submit a ticket for further assistance
-60938	Incomplete signing information	Check the required items in the signing information
-60936	The request is rejected	Access denied
-60932	Signature error	The signature is invalid. Check whether the signing information matches
-62999	Invalid image format	Check whether the image format is valid

File preview errors

Error Code	Description	Solution
-3006	The file is encrypted	Use a decrypted file
-3008	The file length is 0	Check whether the file is normal
-3011	The file type is not supported	Check whether the file type is supported. For the supported file types, see Rules and Restrictions
-3015	The number of requested page is greater than the total number of document pages	Check whether the number of the requested page is correct

Content moderation errors

Error Code	Description	Solution

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-61011	The file does not exist	Check whether the file exists
-65007	File content error. Decoding failed	Check whether the file format is correct
-65010	File download failed	Check whether the file link is correct. For a file with private read permission, the file link must be signed
-65011	The file is too large to process	Currently, an excessively large file cannot be moderated
-65012	The image resolution is too low to process	Currently, images with excessively low resolution are not supported
-65013	The file is not processed because it does not meet requirements (e.g., unsupported file suffix or excessively large size)	Check whether the file meets requirements
-65014	No CI role (CI_QCSRole)	Bind a CI role
-65015	No moderation scenario is used	Use at least one moderation scenario for moderation
-65016	BizType used does not exist	Enter a correct BizType
Other	Internal error	None

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Request Signature

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Note

This document is only for the COS XML version.

It does not apply to POST Object requests over HTTP.

Overview

You can use COS with RESTful APIs, which support anonymous and signed HTTP requests. The COS server will authenticate the requester of signed requests.

Anonymous request: an HTTP request that does not contain any authentication information, and is sent using RESTful API.

Signed request: an HTTP request that carries a signature. The COS server will authenticate requesters and only execute requests initiated by authenticated ones. If the authentication fails, COS will return an error message and deny the request.

COS authenticates requesters using a custom solution based on Hash Message Authentication Code (HMAC).

Implementing Signature in SDK

Signatures are already implemented in COS SDKs, which means when you initiate requests or obtain signatures using an SDK, you can ignore the signature issue. To implement a signature by yourself or learn about the implementation of signatures in different programming languages, see the programming language-specific signature implementation file from the table below:

SDK	Signature Implementation File
Android SDK	COSXmlSigner.java
C SDK	cos_auth.c
C++ SDK	auth_tool.cpp
.NET(C#) SDK	IQCloudSigner.cs (class CosXmlSigner)
Go SDK	auth.go
iOS SDK	QCloudAuthentationV5Creator.m
Java SDK	COSSigner.java

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JavaScript SDK	util.js (getAuth)
Node.js SDK	util.js (getAuth)
PHP SDK	Signature.php
Python SDK	cos_auth.py
Mini Program SDK	util.js (getAuth)

Generating a Signed URL

Currently, all COS SDKs can generate URLs that carry a signature valid for a period of time. The signature supports PUT and GET requests. Therefore, you can use the generated signed URL to upload/download objects directly without having to generate a signature separately.

When generating a signed URL for uploads, you can also specify headers such as `Content-Type` and `Content-MD5` to limit the media type/content to upload. For the configurations of request headers related to uploads, please see PUT Object.

When generating a signed URL for downloads, you can also specify `response-xxx` so that you can temporarily modify response headers upon download. For the configurations of request parameters related to downloads, please see GET Object.

Find the pre-signed URL document corresponding to your SDK language from the table below:

Note

You are advised to use a temporary key to generate pre-signed URLs for the security of your requests such as uploads and downloads. When you apply for a temporary key, follow the Principle of Least Privilege to avoid leaking resources besides your buckets and objects.

If you need to use a permanent key to generate a pre-signed URL, you are advised to limit the permission of the permanent key to uploads and downloads only to avoid risks.

SDK	Pre-Signed URL Document
Android SDK	Generating a Pre-Signed URL
C SDK	Pre-Signed URL
C++ SDK	Pre-Signed URL
.NET(C#) SDK	Generating a Pre-Signed URL
Go SDK	Pre-Signed URL
iOS SDK	Generating a Pre-Signed URL

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Java SDK	Pre-Signed URL
JavaScript SDK	Pre-Signed URL
Node.js SDK	Pre-Signed URL
PHP SDK	Pre-Signed URL
Python SDK	Pre-Signed URL
Mini Program SDK	Pre-Signed URL

Use Cases

If a COS object needs to be published to the public, you will usually need to set this object to public-read/private-write (everyone can read the object but only the ACL-specified account can write to it). After this, you can use the ACL policy together with the API request signature to authenticate requesters and control the permissions and validity period of operations.

Note

The API request signature described in this document is already included in the SDK. **Perform the steps below only if you want to redevelop based on the native APIs**.

You can secure your API request as follows for the use case above.

1. **Authenticate requester**: verifies the identity of the requester by their unique ID and key.
2. **Prevent data tempering during transfer**: signs and verifies data to ensure its integrity during transfer.
3. **Prevent signature from being stolen**: sets validity period for the signature to prevent it from being stolen or used repeatedly.

Preparations

1. Obtain APPID, SecretId, and SecretKey.

They can be obtained on the Manage API Key page in the CAM console.

2. Determine the programming language.

Supported languages include but are not limited to Java, PHP, .NET, C++, Node.js, and Python. You can determine the HMAC-SHA1, SHA1, and UrlEncode functions according to the programming language selected.

The HMAC-SHA1 and SHA1 functions take UTF-8 encoded strings as input, and output lowercase hexadecimal strings, and UrlEncode is also based on UTF-8 encoding. Besides, the following printable special characters in the ASCII range should also be encoded:

Character	Decimal	Hex	Character	Decimal	Hex

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(Space)	32	20	;	59	3B
!	33	21	<	60	3C
"	34	22	=	61	3D
#	35	23	>	62	3E
$	36	24	?	63	3F
%	37	25	@	64	40
&	38	26	[	91	5B
'	39	27	\\	92	5C
(	40	28	]	93	5D
)	41	29	^	94	5E
*	42	2A	`	96	60
+	43	2B	{	123	7B
,	44	2C	|	124	7C
/	47	2F	}	125	7D
:	58	3A	None	None	None

Generating a Signature

Step 1. Generate KeyTime

1. Get the Unix `StartTimestamp` of the current time. It is the total number of seconds from January 1, 1970, 00:00:00 UTC (January 1, 1970, 08:00:00 Beijing time) till the current time.
2. Calculate the Unix `EndTimestamp` for the signature to expire according to `StartTimestamp` and the expected validity period of the signature.
3. Generate `KeyTime` by splicing the two timestamps above in `StartTimestamp;EndTimestamp` format (e.g., `1557902800;1557910000`).

Step 2. Generate SignKey

Use HMAC-SHA1 with SecretKey as the key and KeyTime as the message to calculate the message digest (i.e., `SignKey`), which is a hash value in lowercase hexadecimal format, such as

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`eb2519b498b02ac213cb1f3d1a3d27a3b3c9bc5f` .

Step 3. Generate UrlParamList and HttpParameters

1. Traverse the HTTP request parameters to generate a key-to-value `Map` and a `KeyList` :

Encode keys using UrlEncode, and convert them to lowercase.

Encode values using UrlEncode. If a parameter does not take any value, its value is considered to be an empty string. For example, a request path `/?acl` is considered as `/?acl=` .

Note

The parameters in an HTTP request are what comes after `?` in the request path. For example, in the request path `/?versions&prefix=example-folder%2F&delimiter=%2F&max-keys=10` , the request parameters are `versions&prefix=example-folder%2F&delimiter=%2F&max-keys=10` .

2. Sort the `KeyList` in lexicographical order.

3. Splice all key-value pairs in the `Map` according to the order in `KeyList` in the format of `key1=value1&key2=value2&key3=value3` , which is the `HttpParameters` .

4. Splice all keys in the order of the `KeyList` · in the format of `key1;key2;key3` , which is the `UrlParamList` .

Examples

Example 1:

Request path: `/?prefix=example-folder%2F&delimiter=%2F&max-keys=10`

UrlParamList: `delimiter;max-keys;prefix`

HttpParameters: `delimiter=%2F&max-keys=10&prefix=example-folder%2F`

Note

When the request is sent, the request parameters in the request path will also be URL-encoded. Therefore, do not repeat the URL encoding operation.

Example 2:

Request path: `/exampleobject?acl`

UrlParamList: `acl`

HttpParameters: `acl=`

Step 4. Generate HeaderList and HttpHeaders

1. Traverse the HTTP request parameters, and generate the key-to-value mapping `Map` and the key list `KeyList` , where keys are [URL-encoded](#.E5.87.86.E5.A4.87.E5.B7.A5 .E4.BD.9C) and converted to lowercase, and values are URL-encoded.

2. Sort the `KeyList` in lexicographical order.

3. Splice all key-value pairs in the `Map` according to the order in `KeyList` in the format of `key1=value1&key2=value2&key3=value3` , which is the `HttpHeaders` .

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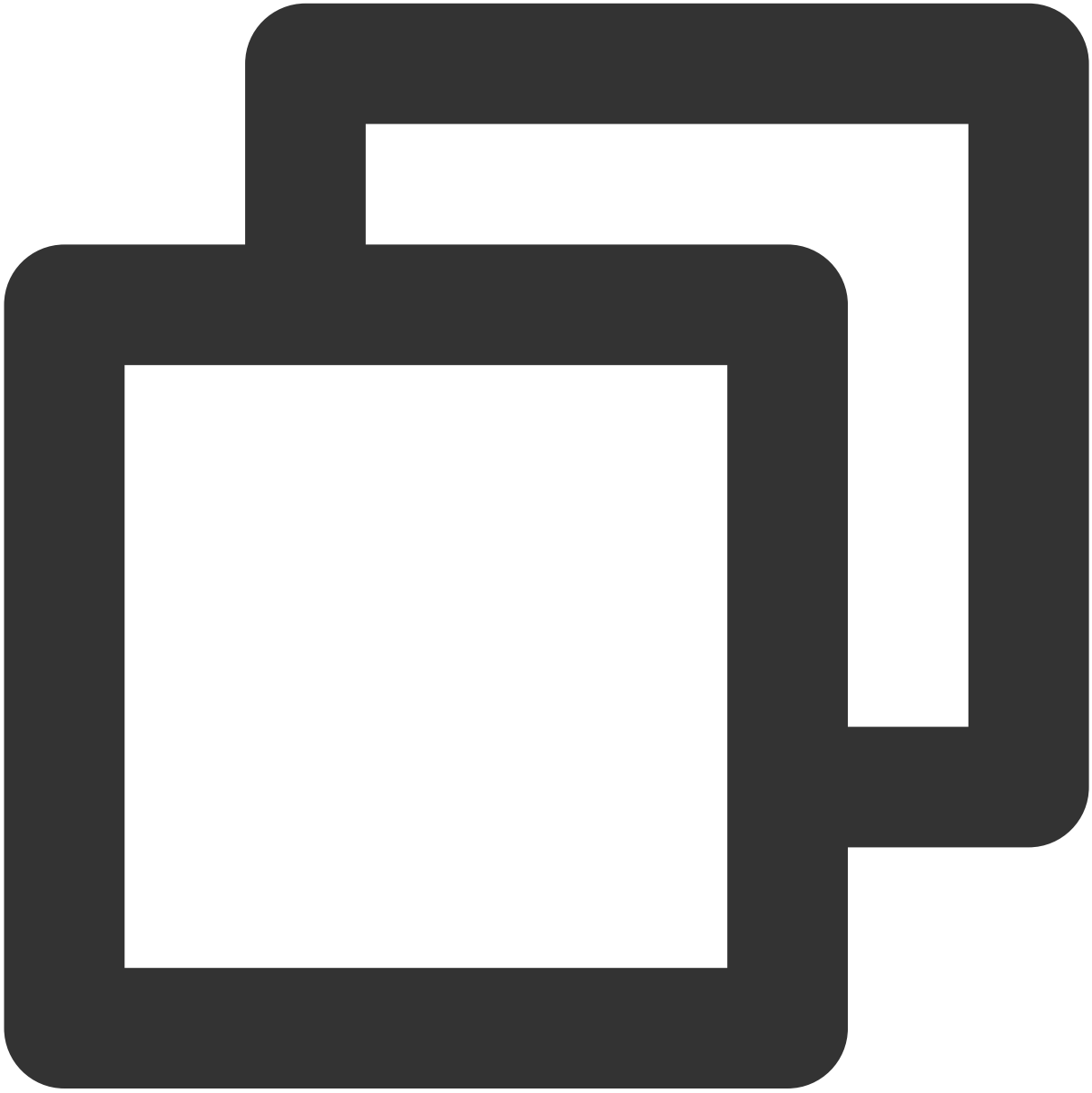
4. Splice all keys according to the order in `KeyList` in the format of `key1;key2;key3`, which is the `HeaderList`.

Examples

Request headers:



```
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
Date: Thu, 16 May 2019 03:15:06 GMT
x-cos-acl: private
x-cos-grant-read: uin="100000000011"
```

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Calculations:

HeaderList = `date;host;x-cos-acl;x-cos-grant-read`

HttpHeaders = `date=Thu%2C%2016%20May%202019%2003%3A15%3A06%20GMT&host=examplebucket-1250000000.cos.ap-shanghai.myqcloud.com&x-cos-acl=private&x-cos-grant-read=uin%3D%221000000000011%22`

Step 5. Generate HttpString

Generate `HttpString` based on `HttpMethod` , `UriPathname` , HttpParameters, and HttpHeaders in the format of `HttpMethod\\nUriPathname\\nHttpParameters\\nHttpHeaders\\n` .

Where:

`HttpMethod` is converted to lowercase, such as `get` or `put` .

`UriPathname` is the request path, such as `/` or `/exampleobject` .

`\\n` is a line break. If there is an empty string, the line breaks before and after it should be retained, for example, `get\\n/exampleobject\\n\\n\\n` .

Step 6. Generate StringToSign

Generate `StringToSign` based on KeyTime and HttpString in the format of `sha1\\nKeyTime\\nSHA1(HttpString)\\n` .

Where:

`sha1` is a fixed string.

`\\n` is a line break.

SHA1(HttpString) is the message digest (in lowercase hexadecimal format, such as `54ecfe22f59d3514fdc764b87a32d8133ea611e6`) calculated with SHA1 and HttpString.

Step 7. Generate Signature

Use HMAC-SHA1 with SignKey (a string rather than the original binary) as the key and StringToSign as the message to calculate the message digest, which is `Signature` , for example, `01681b8c9d798a678e43b685a9f1bba0f6c01234` .

Step 8. Generate an actual signature

Generate the actual signature based on SecretId, KeyTime, HeaderList, UrlParamList, and Signature in the following format:

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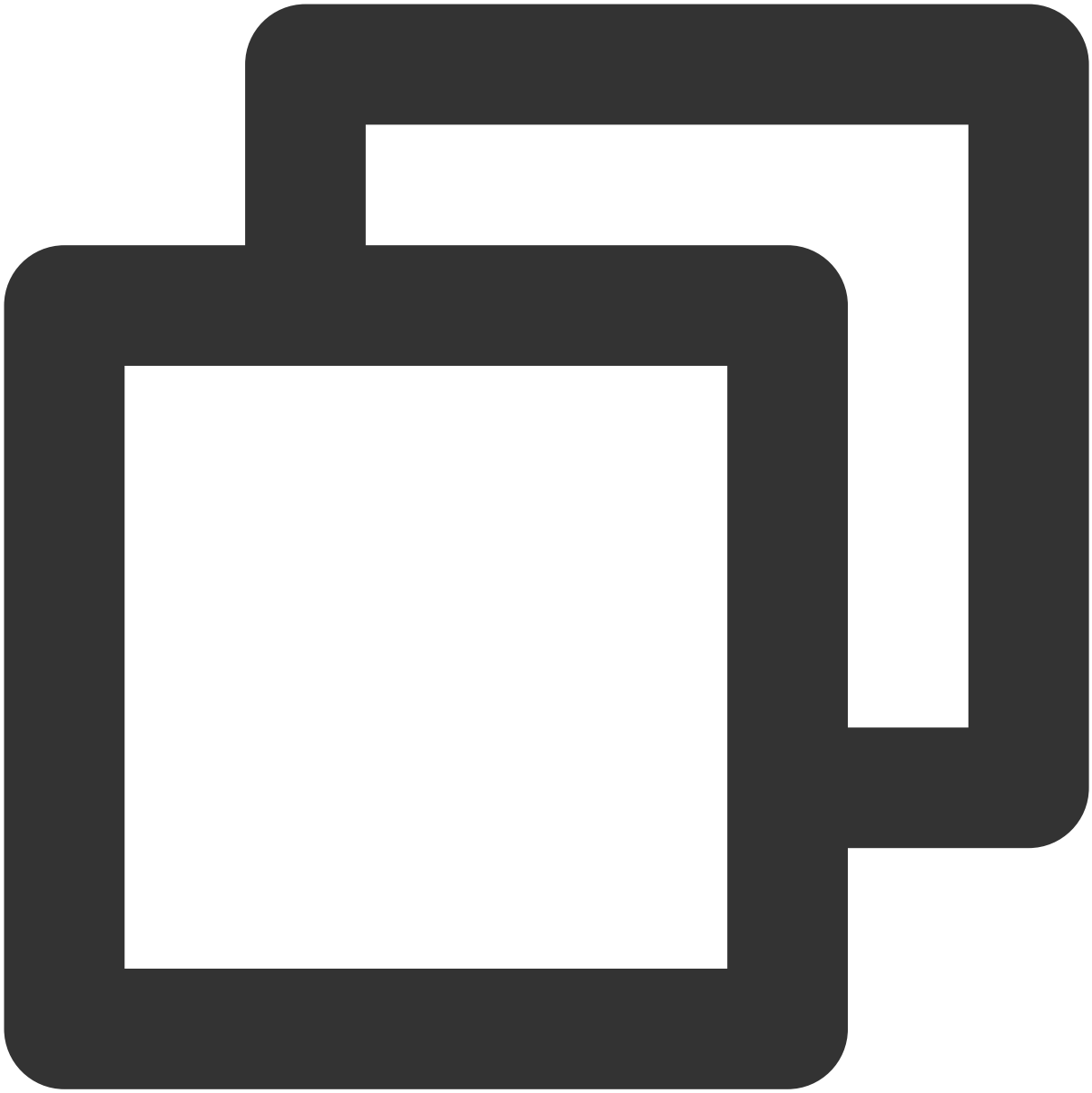

```
q-sign-algorithm=sha1
&q-ak=SecretId
&q-sign-time=KeyTime
&q-key-time=KeyTime
&q-header-list=HeaderList
&q-url-param-list=UrlParamList
&q-signature=Signature
```

Note

Line breaks in the sample above are for readability only and are not included in the actual signature.

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Using a Signature

Signed HTTP requests sent to COS via RESTful APIs can pass the signature in the following ways:
1. Pass through a standard HTTP `Authorization` header, such as `Authorization: q-sign-algorithm=sha1&q-ak=...&q-sign-time=1557989753;1557996953&...&q-signature=...`
2. Pass as an HTTP request parameter (be sure to URL-encode), such as `/exampleobject?q-sign-algorithm=sha1&q-ak=...&q-sign-time=1557989753%3B1557996953&...&q-signature=...`

Note

In the example above, `...` are the signatures.

Using a Temporary Credential (Key)

If a temporary credential is used for signature calculation, the `x-cos-security-token` field should be specified when you send the request. The way to specify this field varies depending on how the signature is passed in.
1. If the signature is passed in using the standard HTTP `Authorization` header, specify `x-cos-security-token` as a request header as follows:

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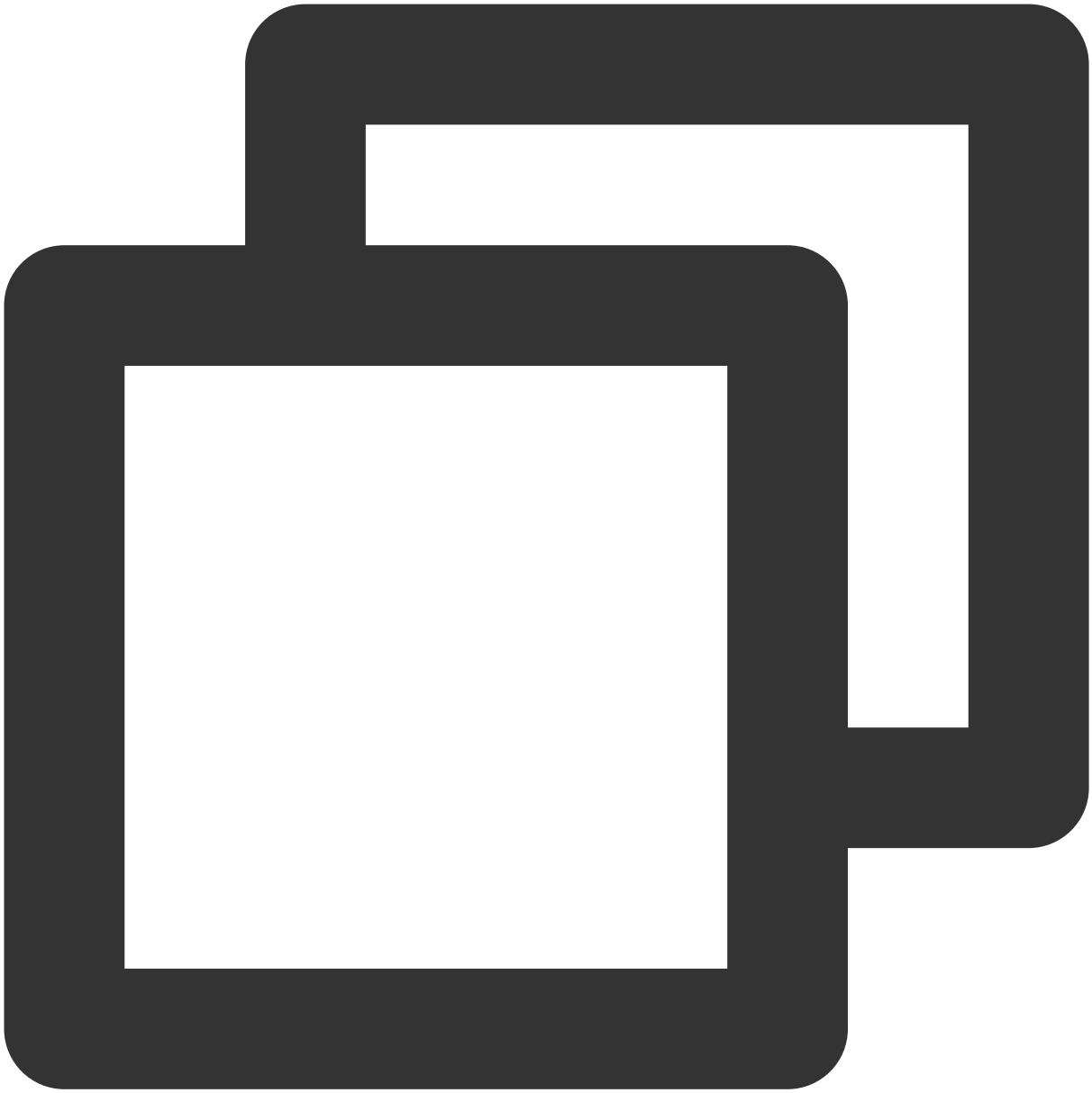

```
Authorization: q-sign-algorithm=sha1&q-ak=...&q-sign-time=1557989753;1557996953&...
x-cos-security-token: ...
```

2. If the signature is passed in as an HTTP request parameter, specify `x-cos-security-token` as a request parameter as follows:

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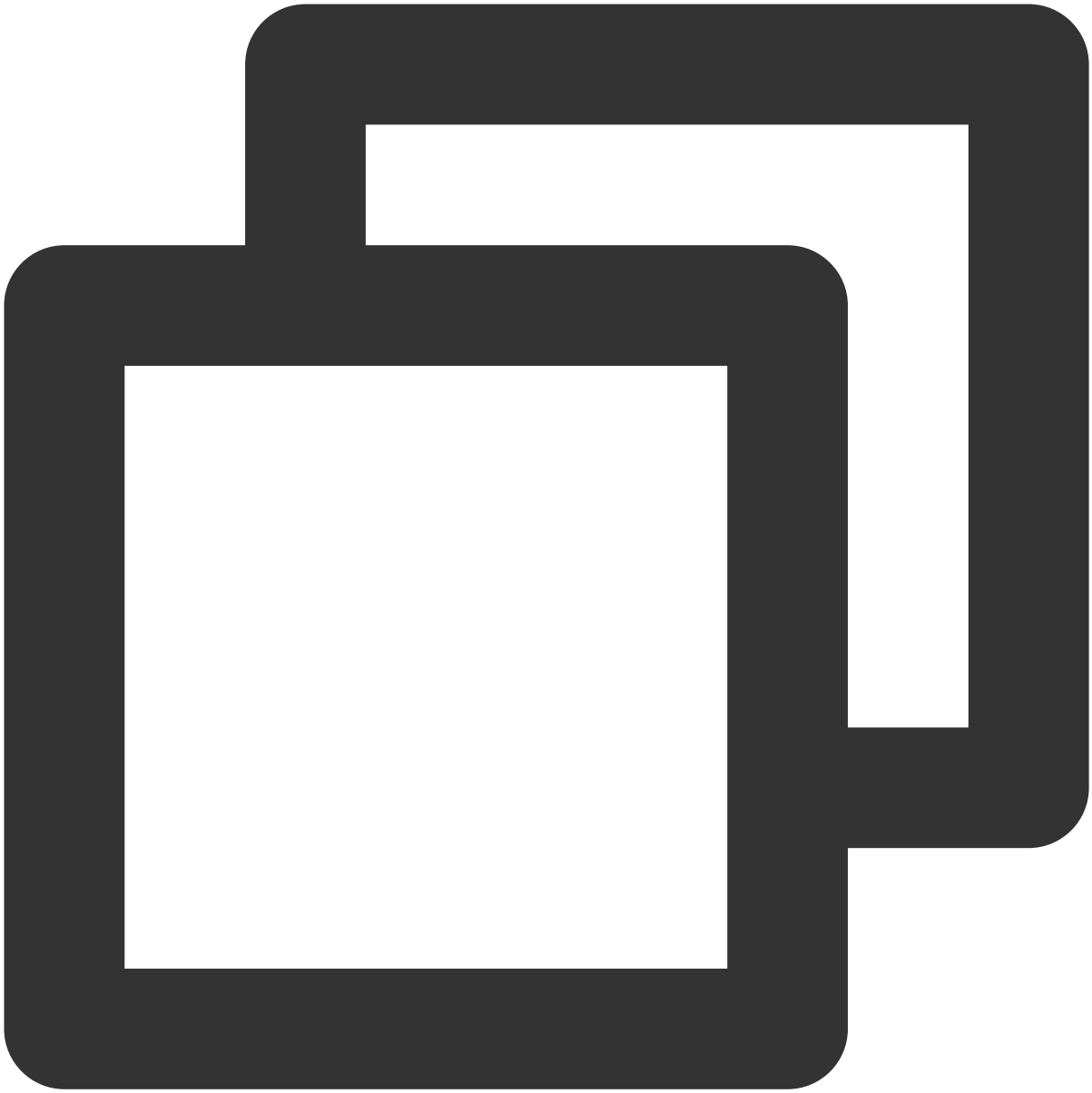

```
/exampleobject?q-sign-algorithm=sha1&q-ak=...&q-sign-time=1557989753%3B1557996953&.
```

Note

In the samples above, `...` is the signature and access token.

Sample Code

Pseudocode

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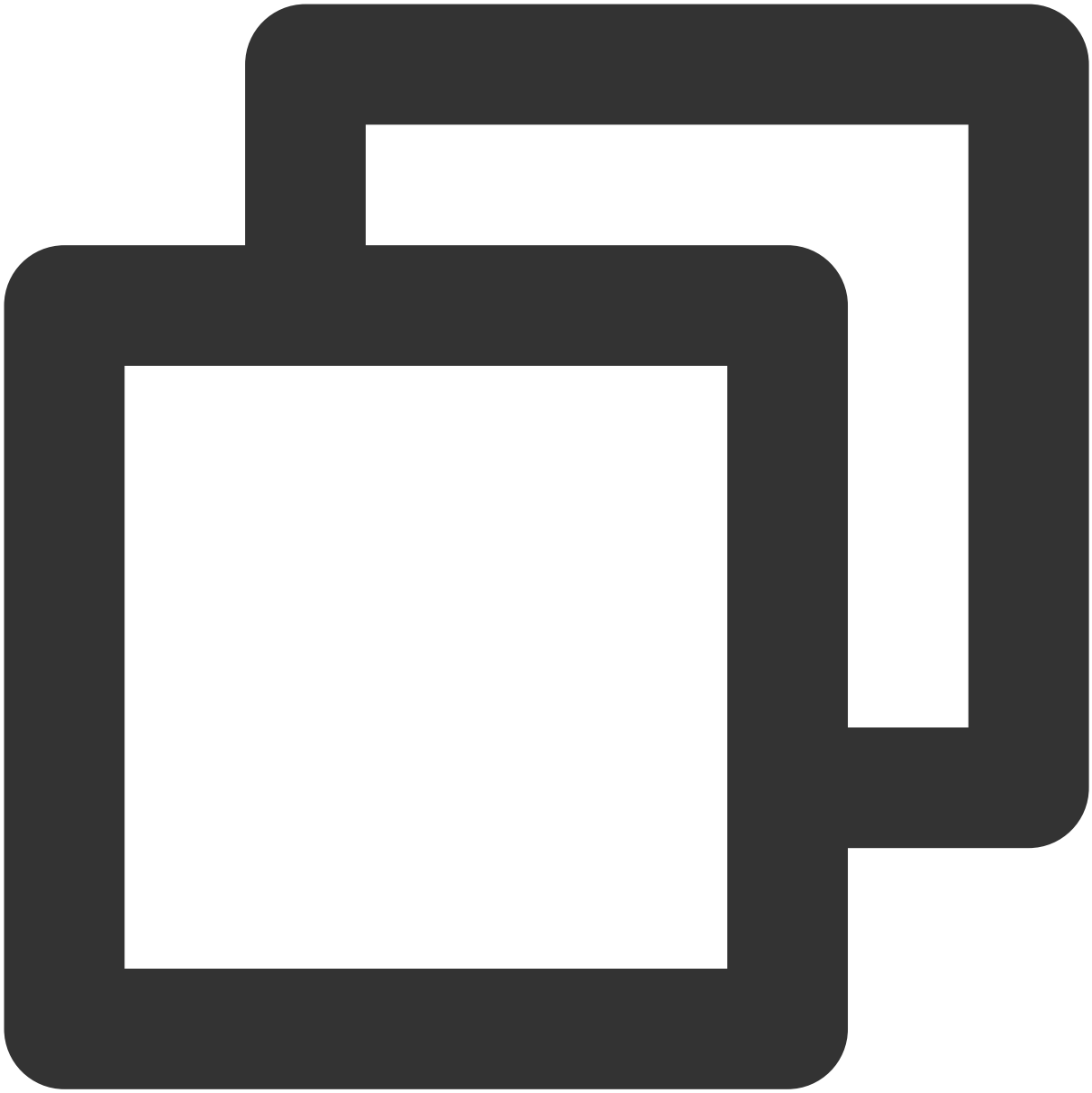

```
KeyTime = [Now];[Expires]
SignKey = HMAC-SHA1([SecretKey], KeyTime)
HttpString = [HttpMethod]\\n[HttpURI]\\n[HttpParameters]\\n[HttpHeaders]\\n
StringToSign = sha1\\nKeyTime\\nSHA1(HttpString)\\n
Signature = HMAC-SHA1(SignKey, StringToSign)
```

Sample of the message digest algorithm

The samples below illustrate how to call HMAC-SHA1 in different languages:

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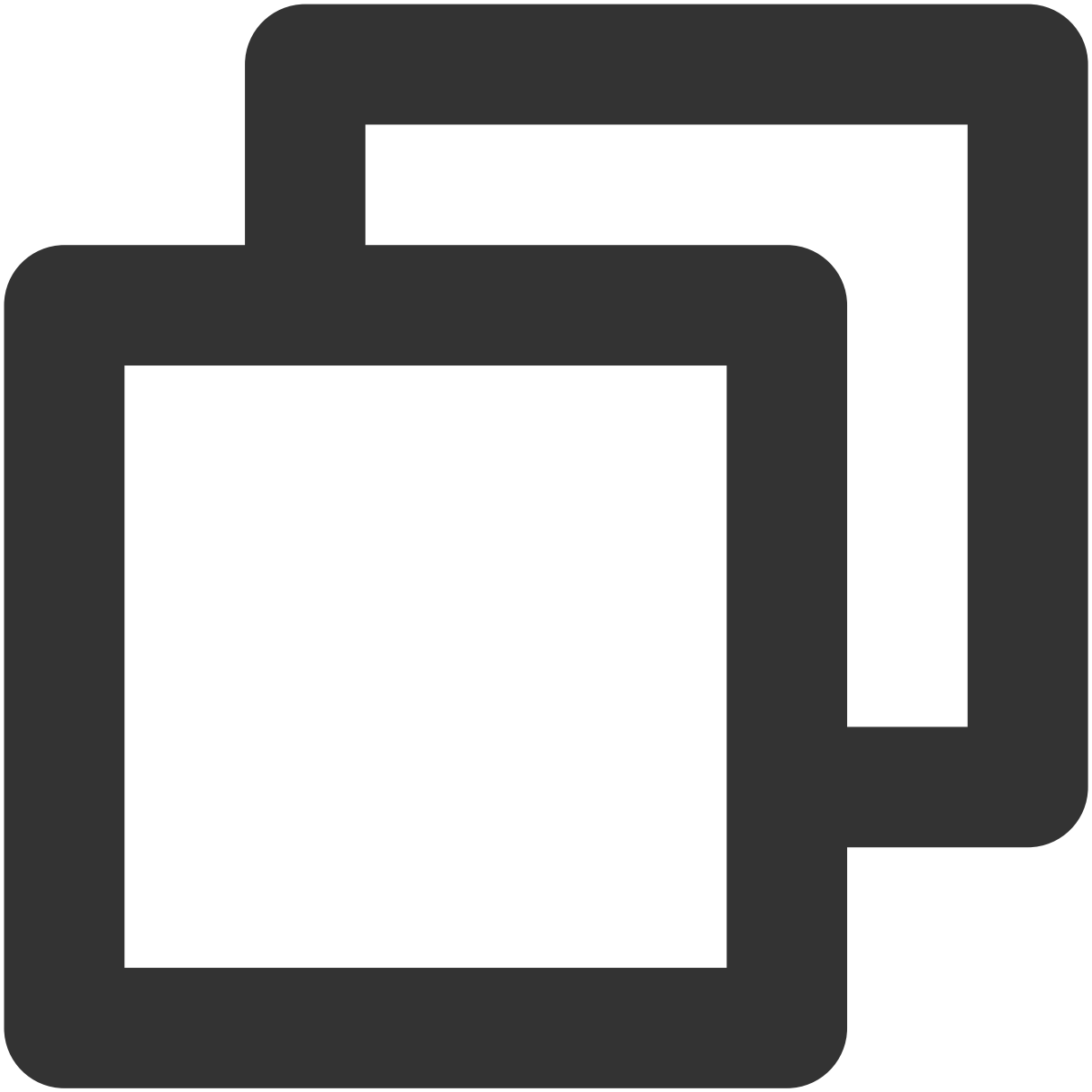
PHP



```
$sha1HttpString = sha1('ExampleHttpString');

$signKey = hash_hmac('sha1', 'ExampleKeyTime', 'YourSecretKey');
```

Java

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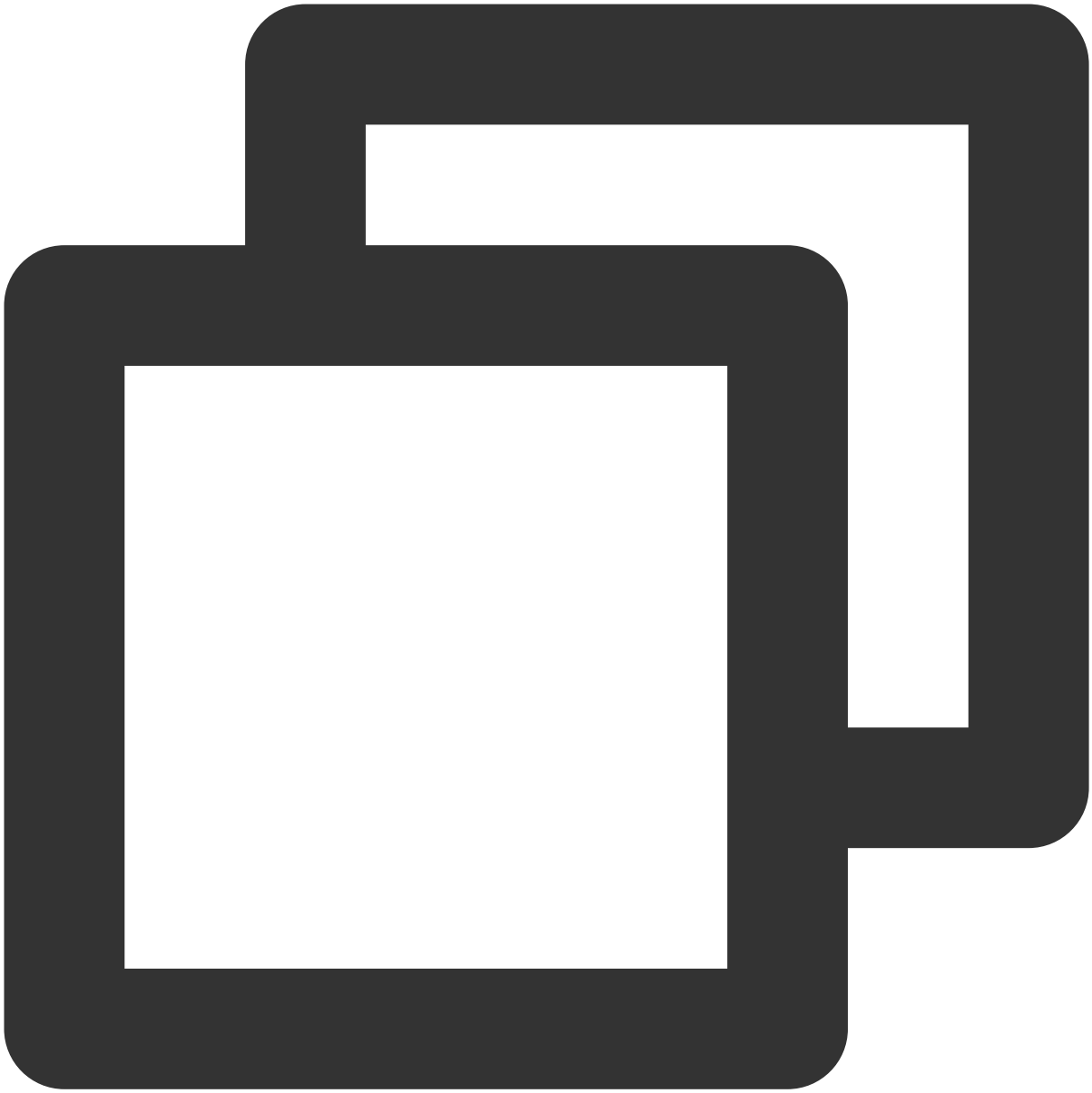

```
import org.apache.commons.codec.digest.DigestUtils;
import org.apache.commons.codec.digest.HmacUtils;

String sha1HttpString = DigestUtils.sha1Hex("ExampleHttpString");

String signKey = HmacUtils.hmacSha1Hex("YourSecretKey", "ExampleKeyTime");
```

Python

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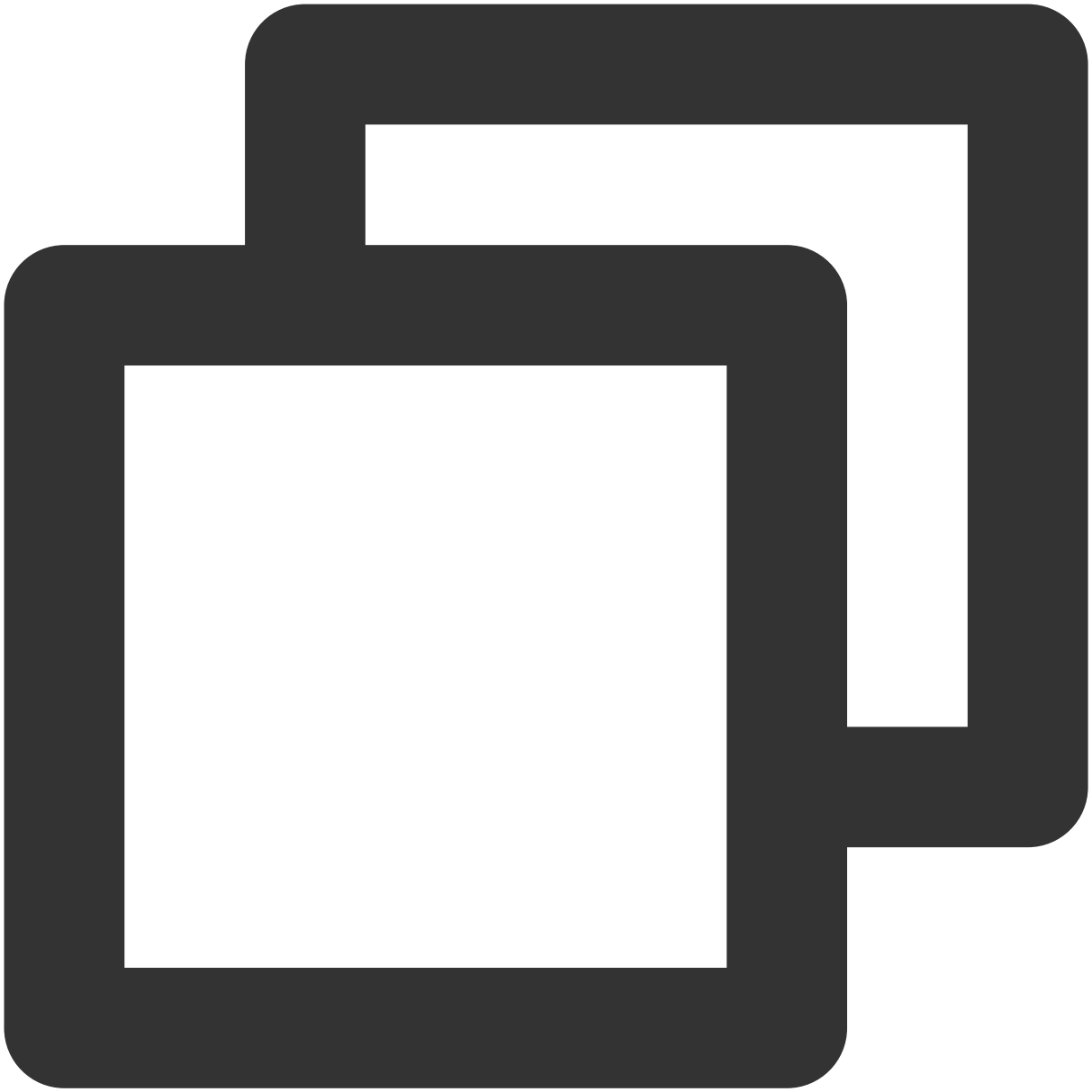

```
import hmac
import hashlib

sha1_http_string = hashlib.sha1('ExampleHttpString'.encode('utf-8')).hexdigest()

sign_key = hmac.new('YourSecretKey'.encode('utf-8'), 'ExampleKeyTime'.encode('utf-8
```

Node.js

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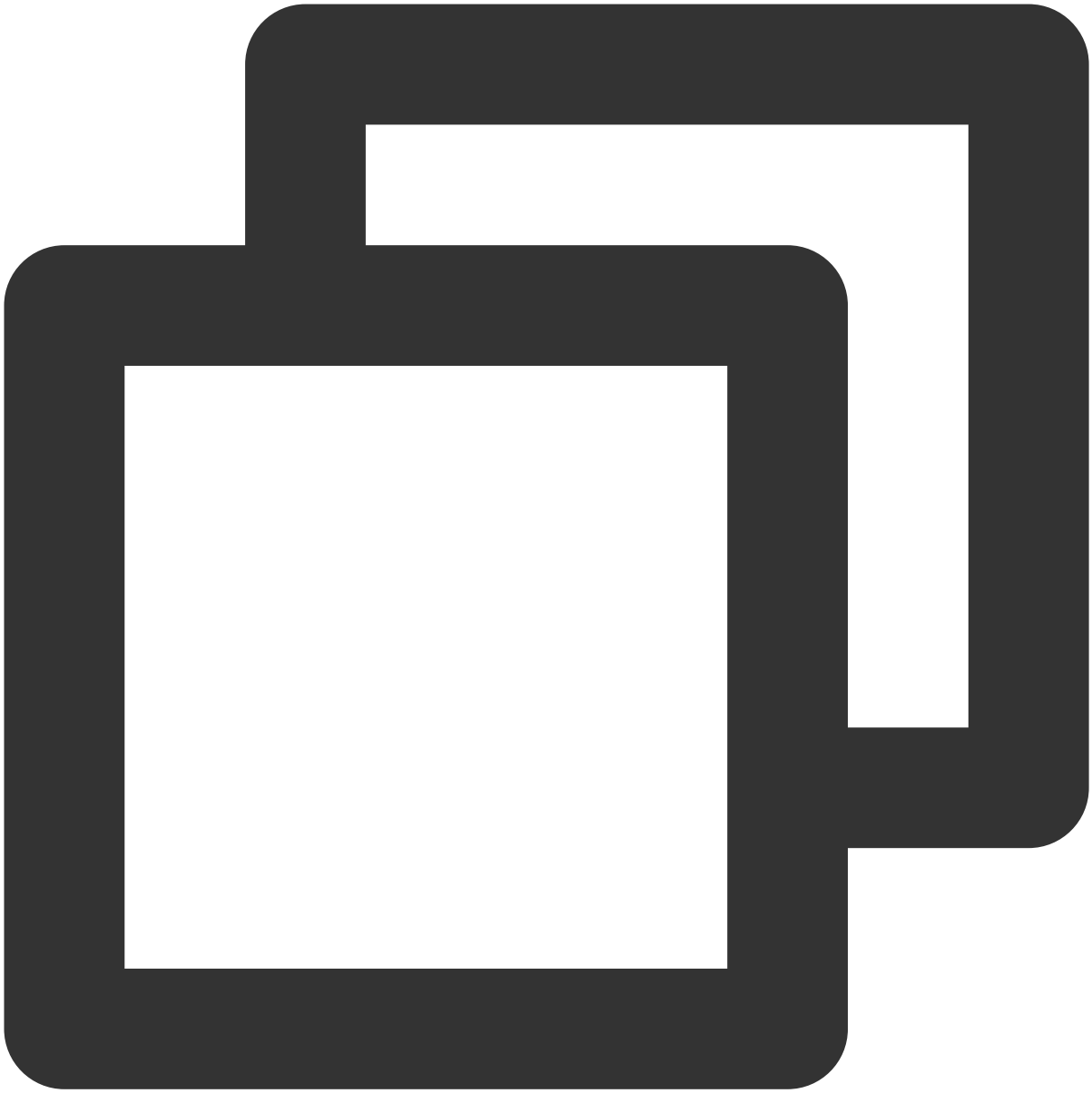

```
var crypto = require('crypto');

var sha1HttpString = crypto.createHash('sha1').update('ExampleHttpString').digest('
var signKey = crypto.createHmac('sha1', 'YourSecretKey').update('ExampleKeyTime').d
```

Go

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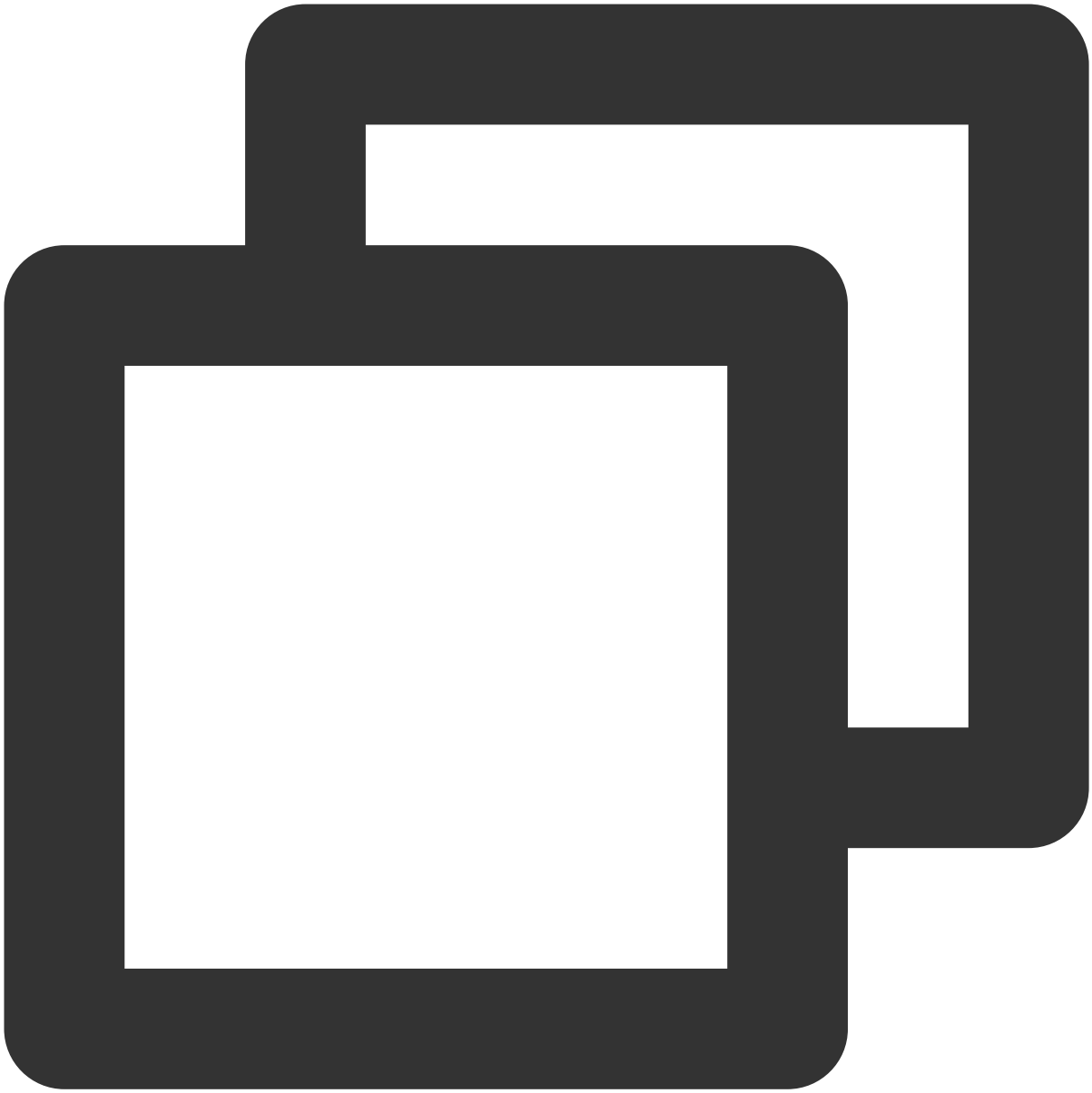

```
import (
    "crypto/hmac"
    "crypto/sha1"
)

h := sha1.New()
h.Write([]byte("ExampleHttpString"))
sha1HttpString := h.Sum(nil)

var hashFunc = sha1.New
h = hmac.New(hashFunc, []byte("YourSecretKey"))
```

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```
h.Write([]byte("ExampleKeyTime"))
signKey := h.Sum(nil)
```

Examples

Preparations

Log in to the CAM console and go to the Manage API Key page to obtain your `APPID`, `SecretId`, and `SecretKey`. Below is an example:

APPID	SecretId	SecretKey
1250000000	AKXXXXXXXXXXXXXXXXXX	BQXXXXXXXXXXXXXXXXXX

Uploading an object

Original request

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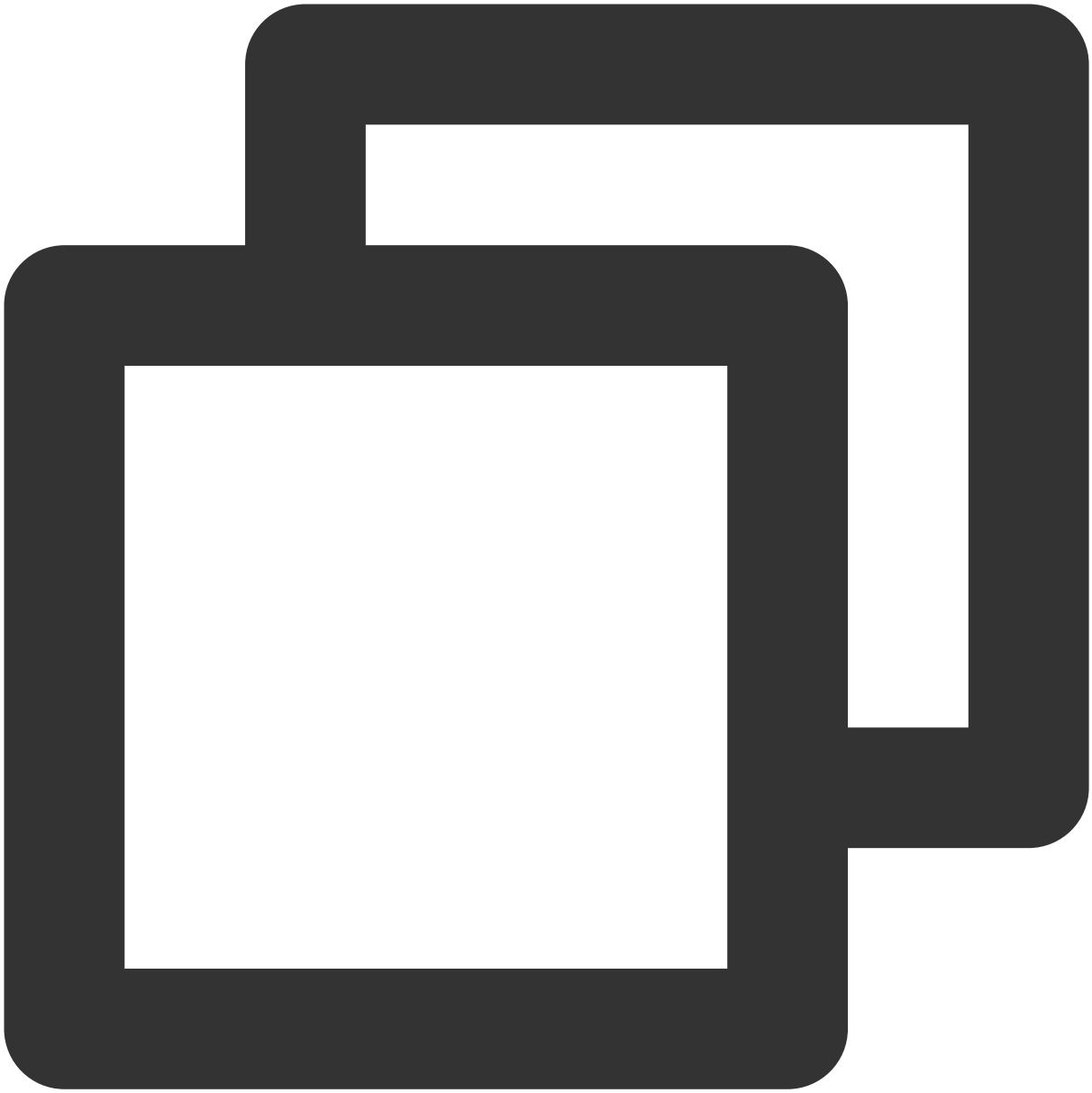

```
PUT /exampleobject(%E8%85%BE%E8%AE%AF%E4%BA%91) HTTP/1.1
Date: Thu, 16 May 2019 06:45:51 GMT
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Content-Type: text/plain
Content-Length: 13
Content-MD5: mQ/fVh815F3k6TAUm8m0eg==
x-cos-acl: private
x-cos-grant-read: uin="100000000011"

ObjectContent
```

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Intermediate variables

KeyTime = `1557989151;1557996351`

SignKey = `eb2519b498b02ac213cb1f3d1a3d27a3b3c9bc5f`

UrlParamList = `(empty string)`

HttpParameters = `(empty string)`

HeaderList = `content-length;content-md5;content-type;date;host;x-cos-acl;x-cos-grant-read`

HttpHeaders = `content-length=13&content-md5=mQ%2FfVh815F3k6TAUm8m0eg%3D%3D&content-type=text%2Fplain&date=Thu%2C%2016%20May%202019%2006%3A45%3A51%20GMT&host=examplebucket-1250000000.cos.ap-beijing.myqcloud.com&x-cos-acl=private&x-cos-grant-read=uin%3D%221000000000011%22`

HttpString = `put\\n/exampleobject(tencentcloud)\\n\\ncontent-length=13&content-md5=mQ%2FfVh815F3k6TAUm8m0eg%3D%3D&content-type=text%2Fplain&date=Thu%2C%2016%20May%202019%2006%3A45%3A51%20GMT&host=examplebucket-1250000000.cos.ap-beijing.myqcloud.com&x-cos-acl=private&x-cos-grant-read=uin%3D%221000000000011%22\\n`

StringToSign = `sha1\\n1557989151;1557996351\\n8b2751e77f43a0995d6e9eb9477f4b685cca4172\\n`

Signature = `3b8851a11a569213c17ba8fa7dcf2abec6931234`

Here, (empty string) is a zero-byte string and `\\n` is a line break.

Signed request

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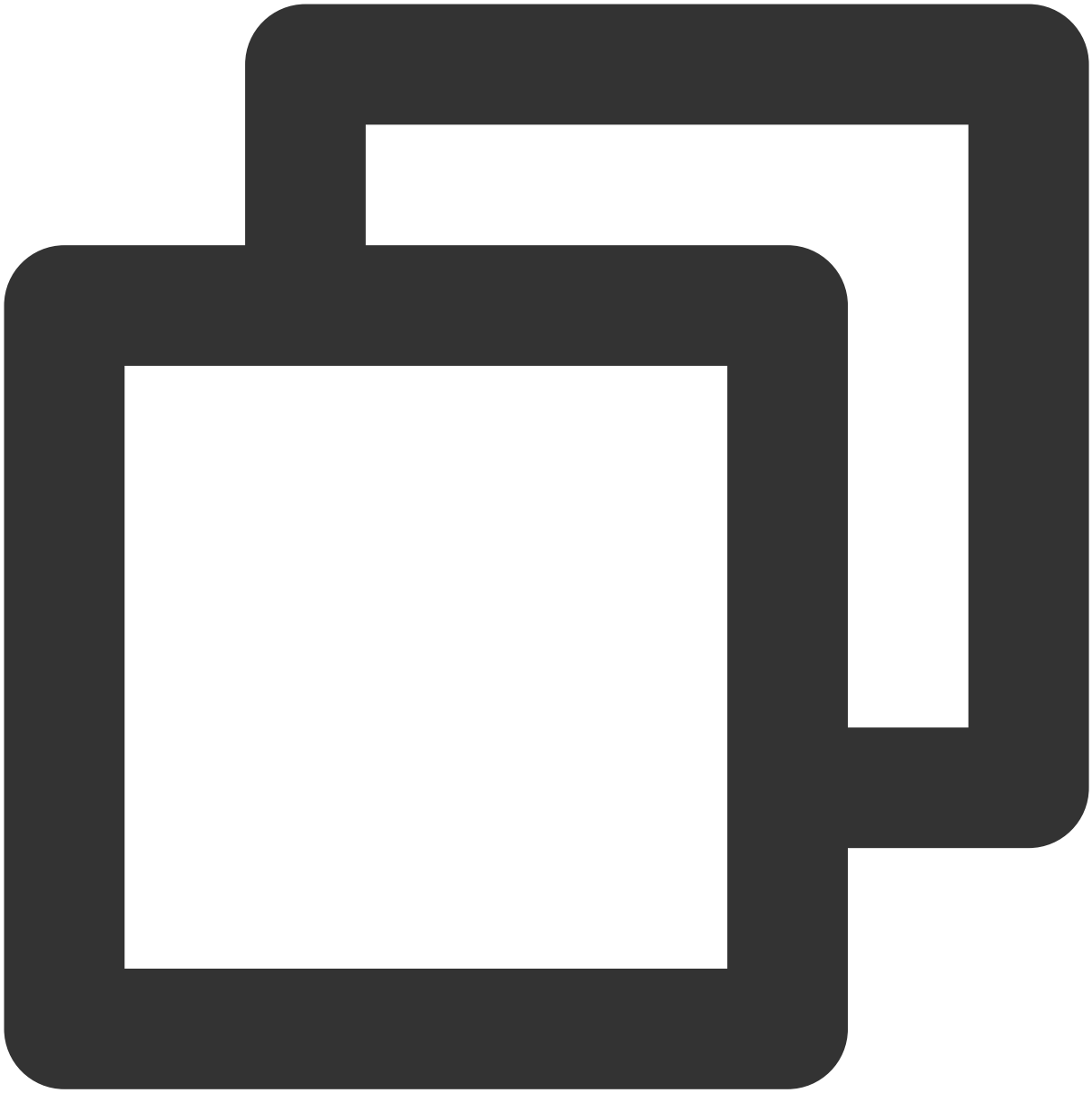

```
PUT /exampleobject(%E8%85%BE%E8%AE%AF%E4%BA%91) HTTP/1.1
Date: Thu, 16 May 2019 06:45:51 GMT
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Content-Type: text/plain
Content-Length: 13
Content-MD5: mQ/fVh815F3k6TAUm8m0eg==
x-cos-acl: private
x-cos-grant-read: uin="100000000011"
Authorization: q-sign-algorithm=sha1&q-ak=AKIDQjz3ltompVjBni5LitkWHFlFpwkn****&q-si

ObjectContent
```

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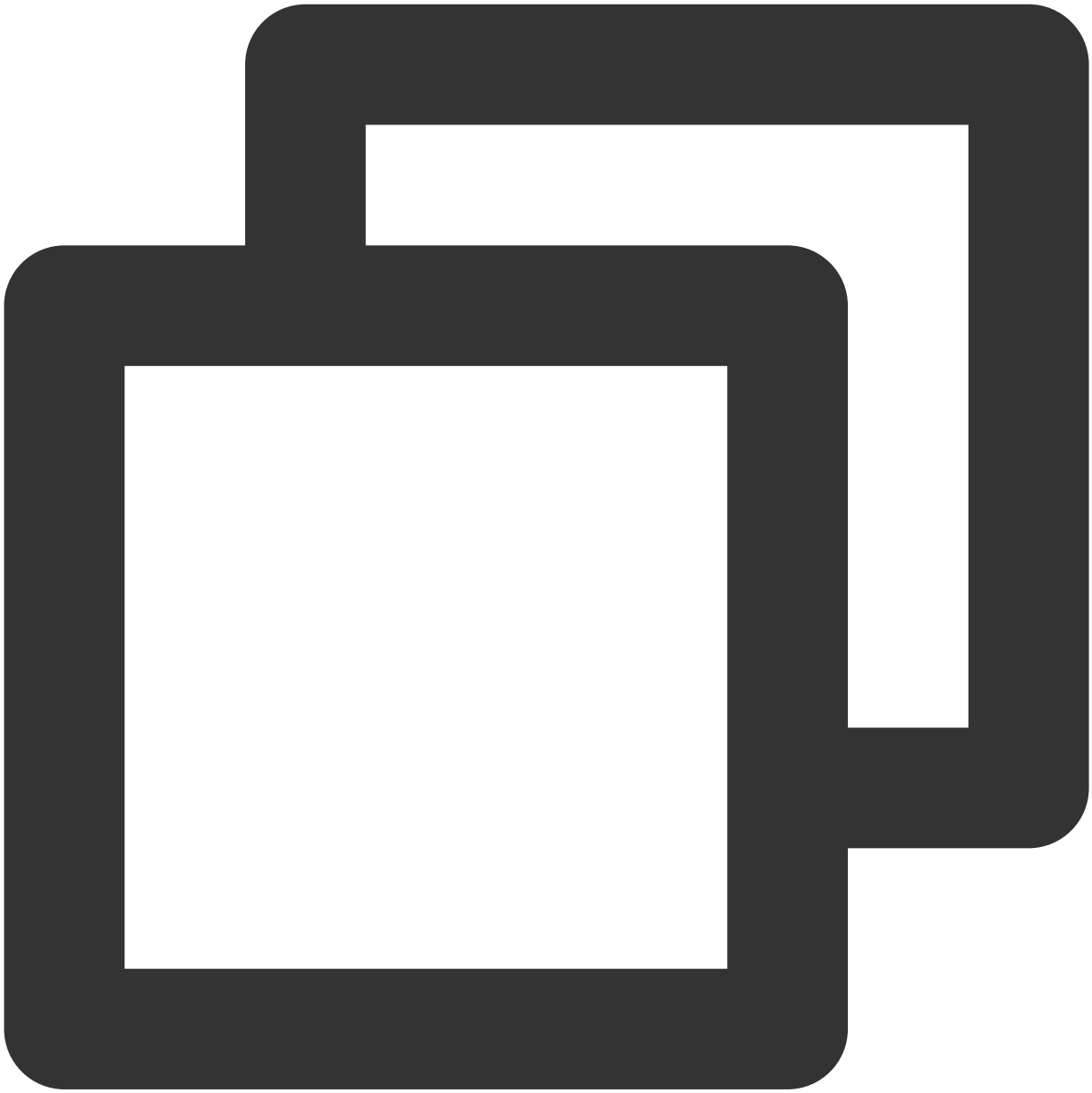
Download an object

Original request



```
GET /exampleobject(%E8%85%BE%E8%AE%AF%E4%BA%91)?response-content-type=application%2
Date: Thu, 16 May 2019 06:55:53 GMT
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

Intermediate variables

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KeyTime = `1557989753;1557996953`

SignKey = `937914bf490e9e8c189836aad2052e4feeb35eaf`

UrlParamList = `response-cache-control;response-content-type`

HttpParameters = `response-cache-control=max-age%3D600&response-content-type=application%2Foctet-stream`

HeaderList = `date;host`

HttpHeaders = `date=Thu%2C%2016%20May%202019%2006%3A55%3A53%20GMT&host=examplebucket-1250000000.cos.ap-beijing.myqcloud.com`

HttpString = `get\\n/exampleobject(tencentcloud)\\nresponse-cache-control=max-age%3D600&response-content-type=application%2Foctet-stream\\ndate=Thu%2C%2016%20May%202019%2006%3A55%3A53%20GMT&host=examplebucket-1250000000.cos.ap-beijing.myqcloud.com\\n`

StringToSign = `sha1\\n1557989753;1557996953\\n54ecfe22f59d3514fdc764b87a32d8133ea611e6\\n`

Signature = `01681b8c9d798a678e43b685a9f1bba0f6c01234`

Here, `\\n` is a line break.

Signed request

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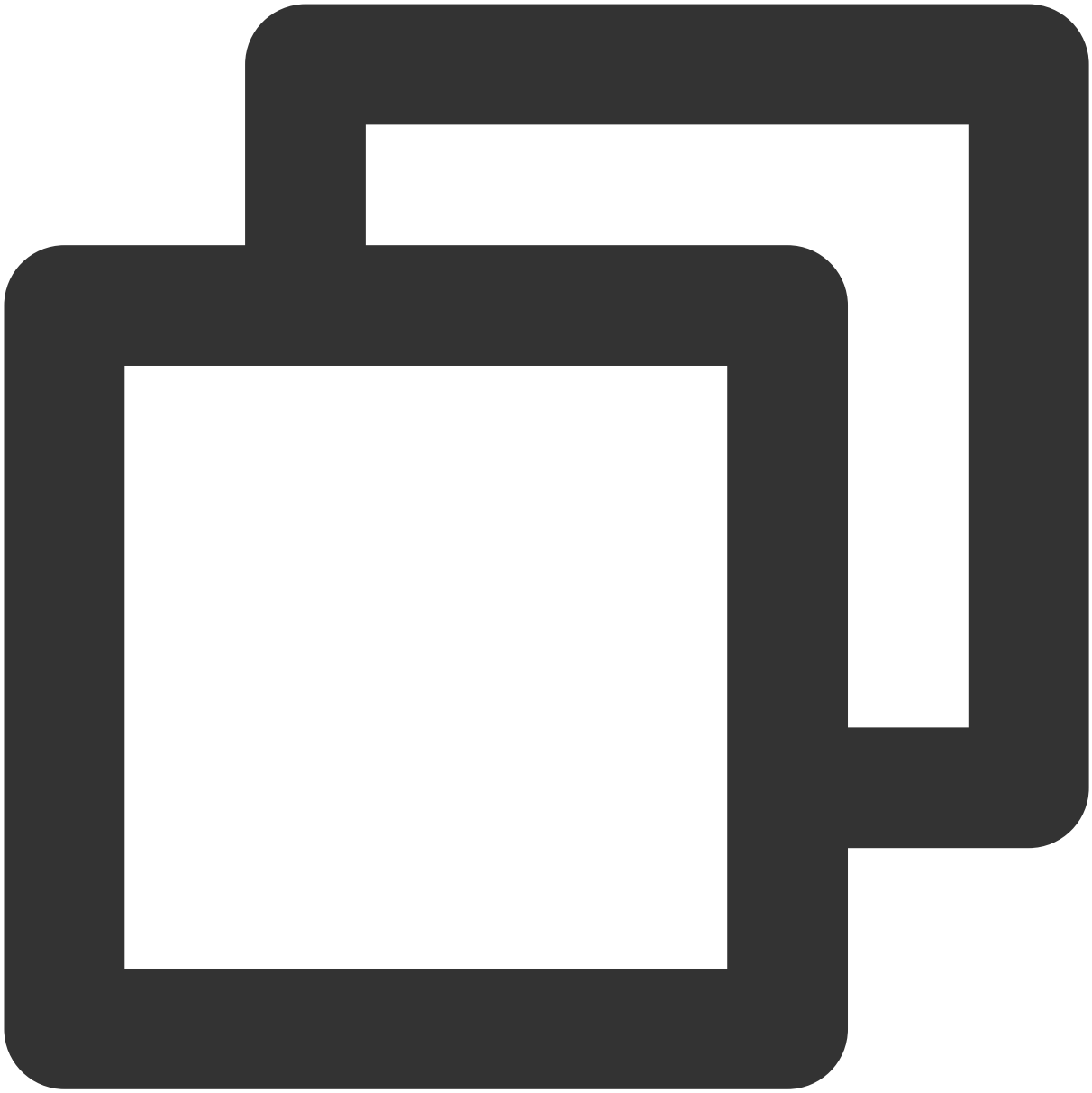

```
GET /exampleobject(%E8%85%BE%E8%AE%AF%E4%BA%91)?response-content-type=application%2
Date: Thu, 16 May 2019 06:55:53 GMT
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Authorization: q-sign-algorithm=sha1&q-ak=AKIDQjz3ltompVjBni5LitkWHFlFpwkn****&q-si
```

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Action List

Last updated：2024-03-28 15:36:00

COS APIs are described as follows:

Service APIs

API	Operation	Description
GET Service (List Buckets)	Querying the bucket list	Queries the list of all buckets under a specified account

Bucket APIs

Basic operation APIs

API	Operation	Description
PUT Bucket	Creating a bucket	Creates a bucket under a specified account
GET Bucket (List Objects)	Querying an object list	Queries some or all objects in a bucket
HEAD Bucket	Checking a bucket and its permission	Checks whether a bucket exists and whether you have permission to access it
DELETE Bucket	Deleting a bucket	Deletes an empty bucket under a specified account
GET Bucket Object versions	Querying object versions	Queries some or all objects in a bucket and their historical versions

ACL APIs

API	Operation	Description
PUT Bucket acl	Setting a bucket ACL	Sets an ACL for a bucket
GET Bucket acl	Querying a bucket ACL	Queries the ACL of a bucket

CORS APIs

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API	Operation	Description
PUT Bucket cors	Setting CORS	Sets CORS permissions for a bucket
GET Bucket cors	Querying CORS configuration	Queries the CORS configuration of a bucket
DELETE Bucket cors	Deleting CORS configuration	Deletes the CORS configuration of a bucket

Lifecycle APIs

API	Operation	Description
PUT Bucket lifecycle	Setting lifecycle	Sets lifecycle for a bucket
GET Bucket lifecycle	Querying a lifecycle configuration	Queries the lifecycle configuration of a bucket
DELETE Bucket lifecycle	Deleting a lifecycle configuration	Deletes the lifecycle configuration of a bucket

Bucket policy APIs

API	Operation	Description
PUT Bucket policy	Setting a bucket policy	Sets a permission policy for a bucket
GET Bucket policy	Querying a bucket policy	Queries the permission policy of a bucket
DELETE Bucket policy	Deleting a bucket policy	Deletes the permission policy of a bucket

Hotlink Protection (referer) APIs

API	Operation	Description
PUT Bucket referer	Setting a bucket referer	Sets a bucket referer allowlist or blocklist
GET Bucket referer	Querying a bucket referer	Queries a bucket referer allowlist or blocklist

Bucket tagging APIs

API	Operation	Description
PUT Bucket tagging	Setting bucket tags	Sets tags for an existing bucket
GET Bucket tagging	Querying bucket tags	Queries the existing tags of a bucket
DELETE Bucket tagging	Deleting bucket tags	Deletes the tags of a bucket

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Static website APIs

API	Operation	Description
PUT Bucket website	Setting a static website	Sets a static website for a bucket
GET Bucket website	Querying static website configuration	Queries the static website configuration of a bucket
DELETE Bucket website	Deleting a static website configuration	Deletes the static website configuration of a bucket

INTELLIGENT TIERING APIs

API	Operation	Description
PUT Bucket IntelligentTiering	Setting INTELLIGENT TIERING	Enables INTELLIGENT TIERING for a bucket
GET Bucket IntelligentTiering	Querying INTELLIGENT TIERING configuration	Queries the INTELLIGENT TIERING configuration of a bucket

Inventory APIs

API	Operation	Description
PUT Bucket inventory	Creating an inventory job	Creates an inventory job in a bucket
POST Bucket inventory	Creating a one-time inventory job	Creates a one-time inventory job for a bucket
GET Bucket inventory	Querying inventory jobs	Queries an inventory configuration of a bucket
List Bucket Inventory Configurations	Querying the list of inventory configurations	Queries the list of inventory configurations for a bucket
DELETE Bucket inventory	Deleting an inventory job	Deletes an inventory job from a bucket

Versioning APIs

API	Operation	Description
PUT Bucket versioning	Setting versioning	Enables/Suspends versioning for a bucket
GET Bucket versioning	Querying versioning	Queries the versioning information of a bucket

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Cross-bucket replication APIs

API	Operation	Description
PUT Bucket replication	Setting cross-bucket replication	Sets a cross-bucket replication rule for a versioning-enabled bucket
GET Bucket replication	Querying cross-bucket replication	Queries the cross-bucket replication rule of a bucket
DELETE Bucket replication	Deleting a cross-bucket replication rule	Deletes a cross-bucket replication rule of a bucket

Logging APIs

API	Operation	Description
PUT Bucket logging	Setting logging	Enables logging for a source bucket
GET Bucket logging	Querying logging configuration	Queries the logging configuration of a source bucket

Global acceleration (accelerate) APIs

API	Operation	Description
PUT Bucket Accelerate	Setting global acceleration	Enables/Suspends global acceleration for a bucket
GET Bucket Accelerate	Querying global acceleration	Queries the global acceleration configuration of a bucket

Bucket encryption APIs

API	Operation	Description
PUT Bucket encryption	Setting bucket encryption	Sets the default encryption configuration for a bucket
GET Bucket encryption	Querying bucket encryption configuration	Queries the default encryption configuration of a bucket
DELETE Bucket encryption	Deleting bucket encryption configuration	Deletes the default encryption configuration of a bucket

Object lock (ObjectLock) APIs

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API	Operation	Description
PUT Bucket ObjectLockConfiguration	Configuring object lock	Configures object lock for existing buckets
GET Bucket ObjectLockConfiguration	Querying object lock	Queries the object lock configuration that has taken effect
GET Object retention	Querying the expiration date of object lock	Queries the expiration date of object lock

Object APIs

Basic operation APIs

API	Operation	Description
PUT Object	Uploading an object in whole	Uploads an object to a bucket.
PUT Object - Copy	Copying an object	Copies a file to the destination path.
POST Object	Uploading an object using an HTML form	Uploads an object using an HTML form.
GET Object	Downloading an object	Downloads an object to the local file system
HEAD Object	Querying object metadata	Queries the metadata of an object.
DELETE Object	Deleting an object	Deletes an object from a bucket.
DELETE Multiple Objects	Deleting multiple objects	Deletes multiple objects from a bucket.
OPTIONS Object	Checking cross-origin resource sharing (CORS) configuration	Sends a preflight request to determine whether an actual CORS request can be sent.
POST Object restore	Restoring an archived object	Restores an archived object for access
SELECT Object Content	Extracting object content	Extracts the content of an object

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ACL APIs

API	Operation	Description
PUT Object acl	Setting an object ACL	Sets an ACL for an object in a bucket
GET Object acl	Querying an object ACL	Queries the ACL of an object

Object tagging APIs

API	Operation	Description
PUT Object tagging	Setting object tags	Sets tags for an uploaded object
GET Object tagging	Querying object tags	Queries all tags of an object
DELETE Object tagging	Deleting object tags	Deletes all tags of an object

Multipart upload APIs

API	Operation	Description
Initiate Multipart Upload	Initializing a multipart upload	Initializes a multipart upload.
Upload Part	Uploading parts	Uploads a file in parts.
Upload Part - Copy	Copying a part	Copies an object as a part.
Complete Multipart Upload	Completing a multipart upload	Completes the multipart upload of a file.
Abort Multipart Upload	Aborting a multipart upload	Aborts a multipart upload and deletes the uploaded parts.
List Multipart Uploads	Querying multipart uploads	Queries in-progress multipart uploads.
List Parts	Querying uploaded parts	Queries the uploaded parts of a multipart upload.

Batch Operation APIs

API	Operation	Description
CreateJob	Creating a job	Creates a batch operation job in a bucket

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DescribeJob	Describing a job	Gets the parameters and job execution status of a created batch operation job
ListJobs	Querying jobs	Lists created batch operation jobs
UpdateJobPriority	Updating job priority	Updates the priority of a created job
UpdateJobStatus	Updating job status	Updates the status of a created job
CommonElements	—	Common elements of the batch operation feature
ErrorResponse	—	Error responses of the batch operation feature

Data Processing APIs

Data processing APIs

Data processing APIs include image processing, AI-based content recognition, media processing, and file processing APIs. For details, see Data Processing APIs.

Content moderation APIs

Content moderation APIs includes image moderation, video moderation, audio moderation, text moderation, file moderation, webpage moderation, and live stream moderation APIs. For details, see Content Moderation APIs.

Job and workflow APIs

Job and workflow APIs include workflow APIs, workflow instances, job APIs, template APIs, and batch job APIs. For details, see Job and Workflow APIs.

Cloud virus detection APIs

API	Description
Submitting virus detection job	Detects viruses such as trojans and worms in COS files
Querying virus detection job result	Queries the status or result of a virus detection job

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Service APIs
GET Service（List Buckets）

Last updated：2024-03-28 15:36:00

Overview

This API is used to query the list of all buckets under a requester's account or in a specific region.

Request

Sample request

Sample 1

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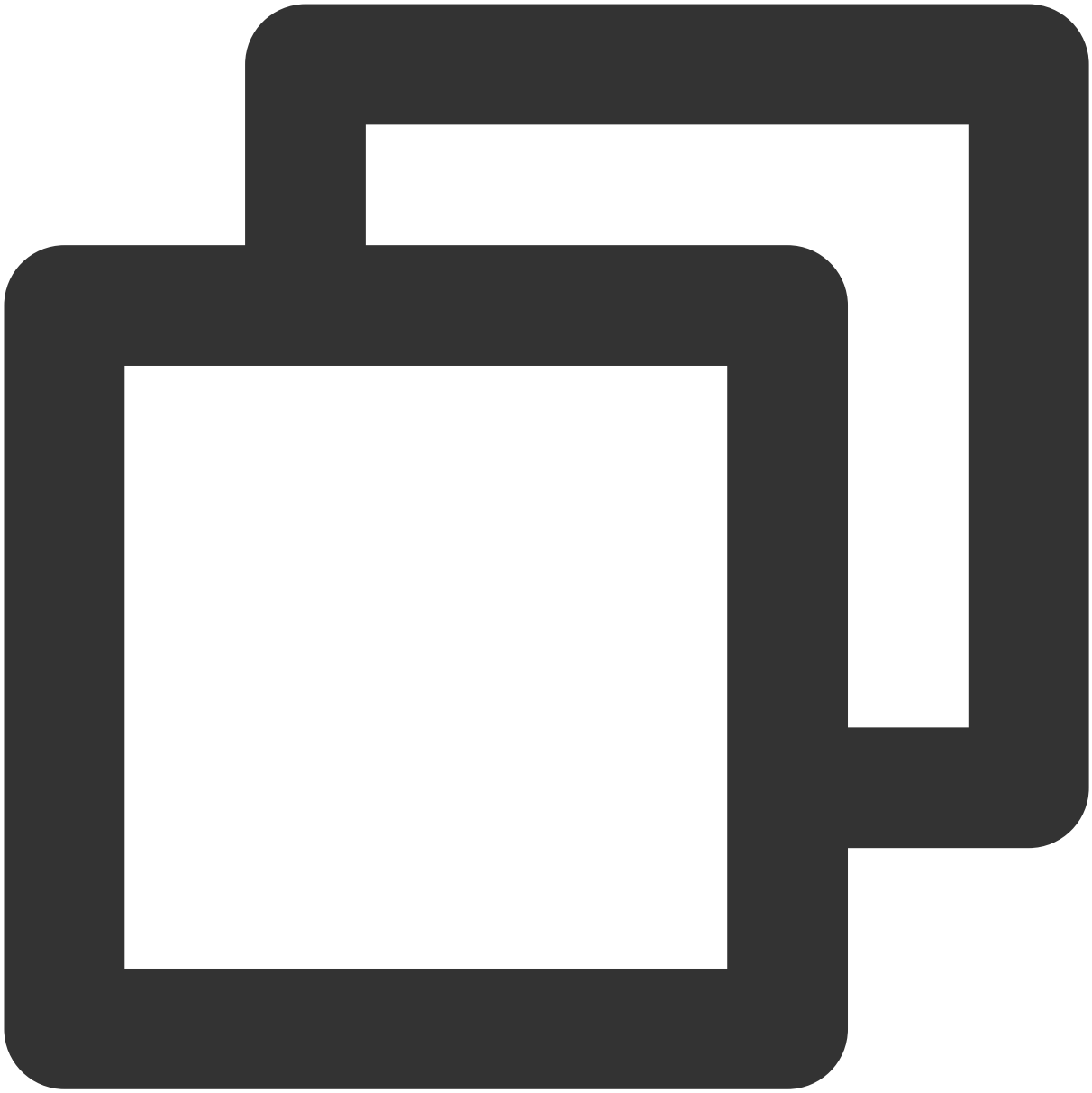

```
GET / HTTP/1.1
Host: service.cos.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Sample 2

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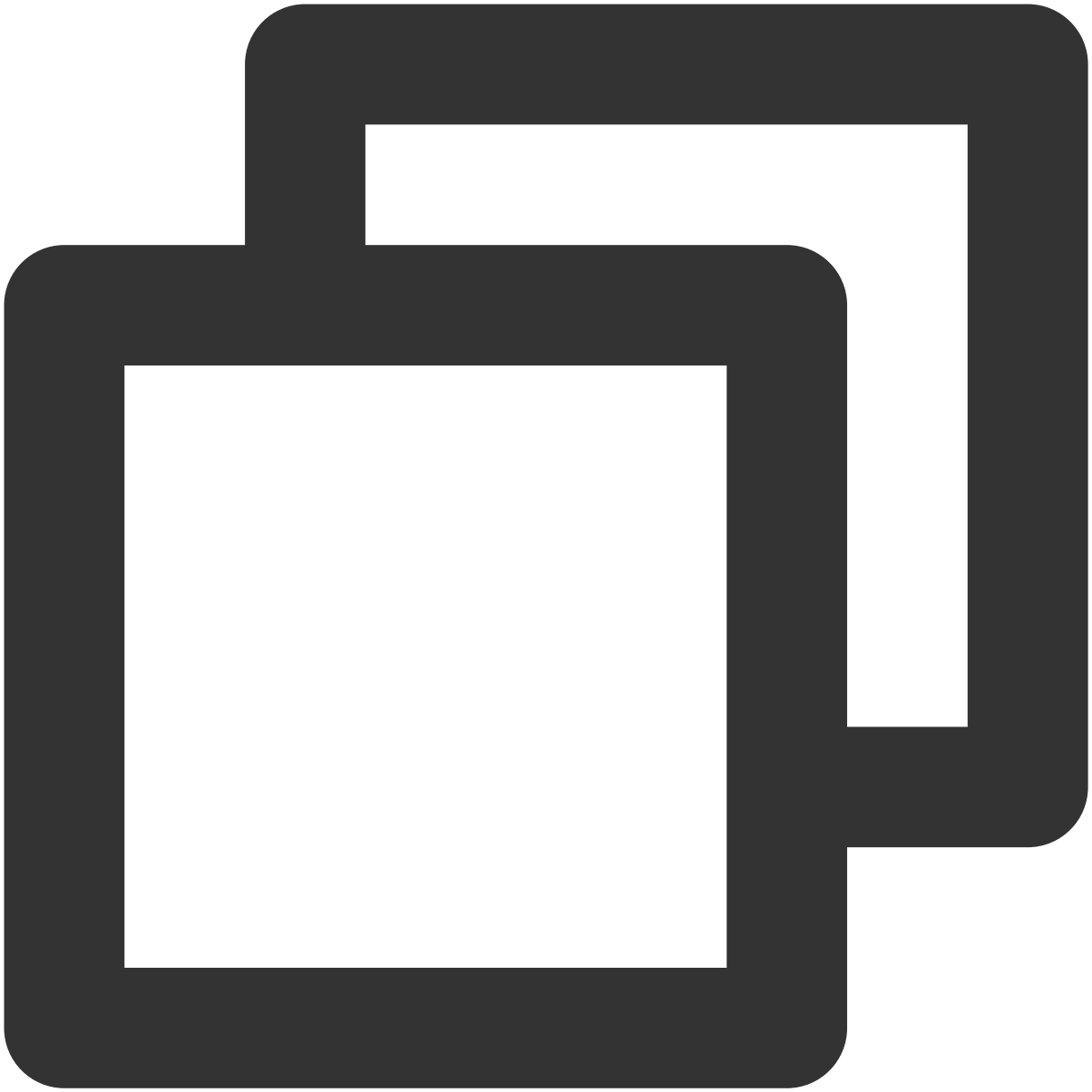

```
GET / HTTP/1.1
Host: cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Authorization: Auth String (See Request Signature for details.)

Host: To query the list of all buckets, set it to `service.cos.myqcloud.com`. To query the list of buckets in a specified region, set it to `cos.<Region>.myqcloud.com`, where <Region> is a COS available region (see

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Regions and Access Endpoints).

Request parameters

`GetService` supports filtering buckets by bucket tag, region, and creation time through request parameters. To filter buckets by tag, only one tag can be passed in. If a bucket has multiple tags, as long as any of them is hit, the bucket will be returned.

Field	Description	Type	Required
tagkey	Filters buckets by bucket tag. Only one tag can be passed in. `tagkey` is used to pass in the tag key.	string	No
tagvalue	Filters buckets by bucket tag. Only one tag can be passed in. `tagvalue` is used to pass in the tag value.	string	No
region	Filters buckets by region, such as `region=ap-beijing`. For the regions supported by COS, see Regions and Access Endpoints.	string	No
create-time	GMT timestamp, which is used together with the `range` parameter to filter buckets by creation time, such as `create-time=1642662645`.	Timestamp	No
range	Filters buckets by creation time together with the `create-time` parameter. Enumerated values: lt (creation time before `create-time`), gt (creation time after `create-time`), lte (creation time before or at `create-time`), gte (creation time after or at `create-time`).	string	No

When the bucket tag authorization is different from the `GetService` authorization, the authentication and response of the `GetService` request are as follows:

Bucket tag Authorization Status	`GetService` Authorization Status	`GetService` Request	Response
The root account passes the bucket tag authorization and grants the sub-account the resource operation permission of the bucket tag `tagA`.	`GetService` permission not granted.	With bucket tag parameter `tagA`	List of buckets containing bucket tag `tagA`
		Without bucket tag parameter	Access Denied

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	`GetService` permission granted	With bucket tag parameter `tagA`	List of buckets containing bucket tag `tagA`
		Without bucket tag parameter	List of all buckets
The root account doesn't pass the bucket tag authorization or grant the sub-account the resource operation permission of the bucket tag `tagA`.	`GetService` permission not granted.	With bucket tag parameter `tagA`	Access Denied
		Without bucket tag parameter	Access Denied
	`GetService` permission granted	With bucket tag parameter `tagA`	List of buckets containing bucket tag `tagA`
		Without bucket tag parameter	List of all buckets

Request headers

This API only uses Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

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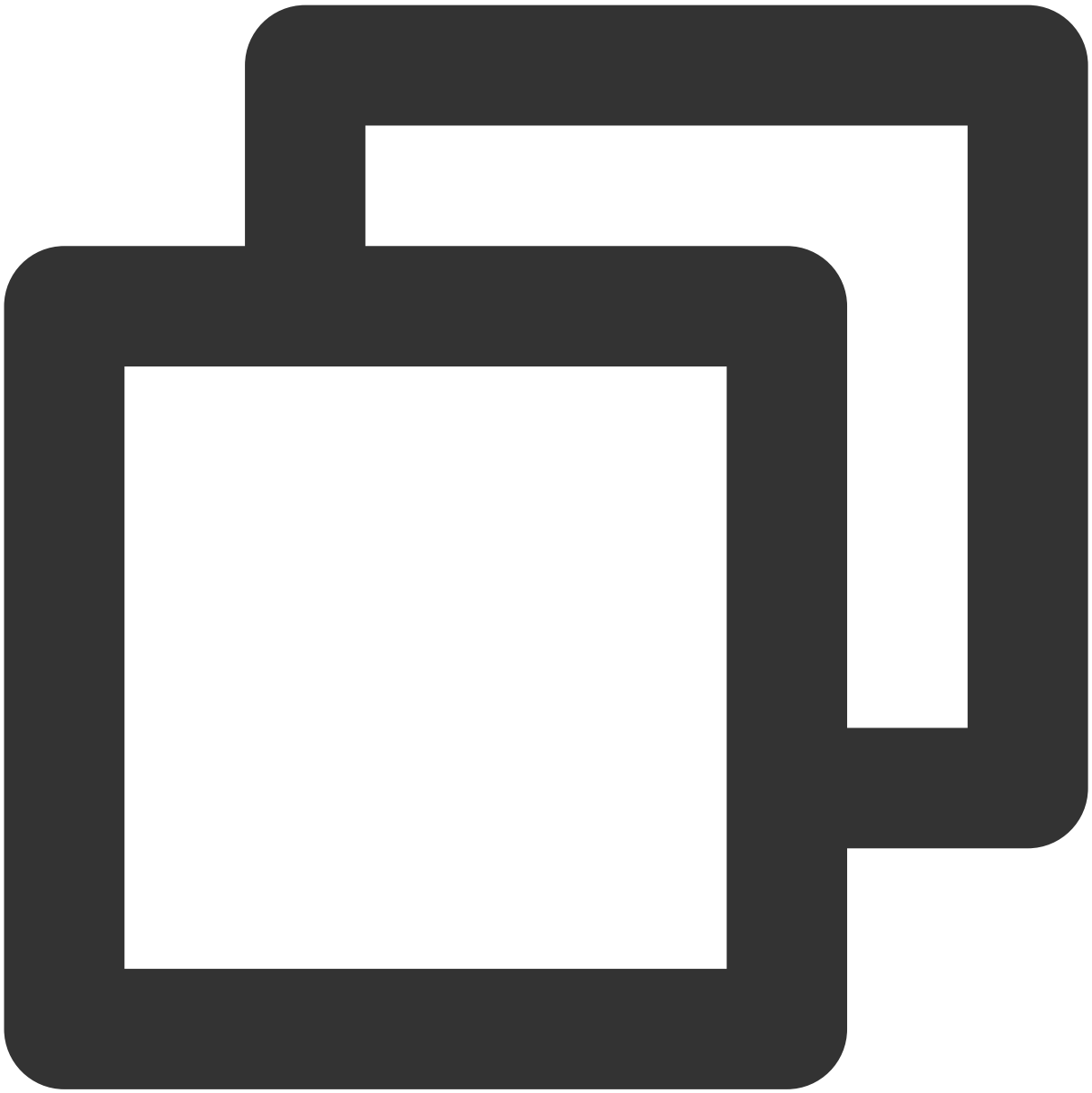
A successful query returns **application/xml** data that includes the list of all buckets or the list of buckets in a specific region.



```
<ListAllMyBucketsResult>
    <Owner>
        <ID>string</ID>
        <DisplayName>string</DisplayName>
    </Owner>
    <Buckets>
        <Bucket>
            <Name>string</Name>
```

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```
            <Location>Enum</Location>
            <CreationDate>date</CreationDate>
        </Bucket>
        <Bucket>
            <Name>string</Name>
            <Location>Enum</Location>
            <CreationDate>date</CreationDate>
        </Bucket>
    </Buckets>
</ListAllMyBucketsResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
ListAllMyBucketsResult	None	Stores the result of the `GET Service` request	Container

Content of `ListAllMyBucketsResult`:

Node Name (Keyword)	Parent Node	Description	Type
Owner	ListAllMyBucketsResult	Bucket owner information	Container
Buckets	ListAllMyBucketsResult	Bucket list	Container

Content of `Owner`:

Node Name (Keyword)	Parent Node	Description
ID	ListAllMyBucketsResult.Owner	Complete ID of the bucket owner in the format of `qcs::cam::uin/[OwnerUin]:uin/[OwnerUin]` Example: `qcs::cam::uin/100000000001:uin/100000000001`
DisplayName	ListAllMyBucketsResult.Owner	Bucket owner name

Content of `Buckets`:

Node Name (Keyword)	Parent Node	Description	Type
Bucket	ListAllMyBucketsResult.Buckets	Bucket information	Container

Content of `Buckets.Bucket`:

Node Name	Parent Node	Description	Type

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(Keyword)			
Name	ListAllMyBucketsResult.Buckets.Bucket	Bucket name in the format of `<BucketName-APPID>` Example: `examplebucket-1250000000`	string
Location	ListAllMyBucketsResult.Buckets.Bucket	Region of the bucket. For the enumerated values, please see Regions and Access Endpoints. Example: `ap-beijing` , `ap-hongkong` , `eu-frankfurt`	Enum
CreationDate	ListAllMyBucketsResult.Buckets.Bucket	Bucket creation time in ISO 8601 format. Example: `2019-05-24T10:56:40Z`	date

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example 1. Querying the list of all buckets

Request

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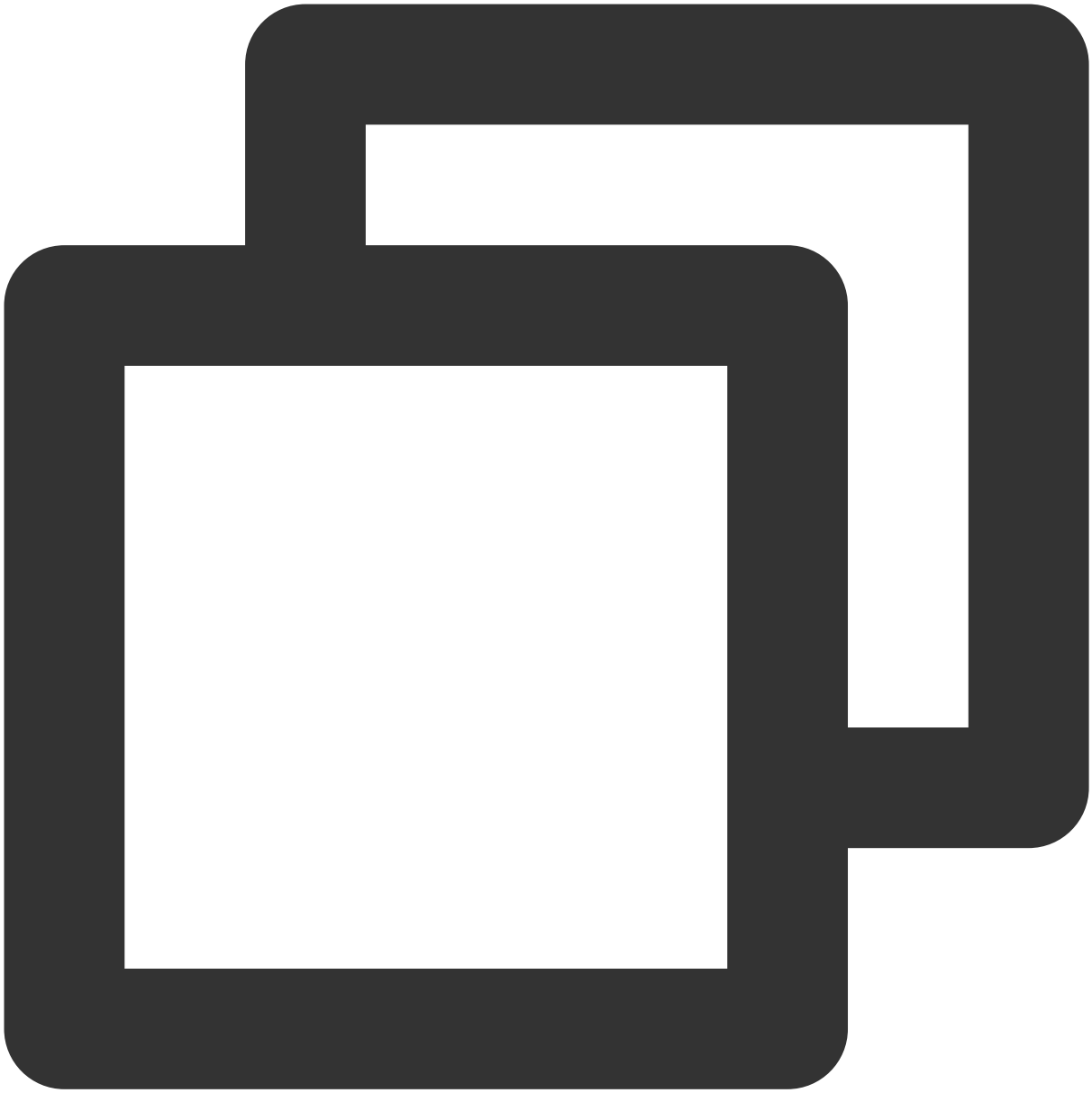

```
GET / HTTP/1.1
Host: service.cos.myqcloud.com
Date: Fri, 24 May 2019 11:59:50 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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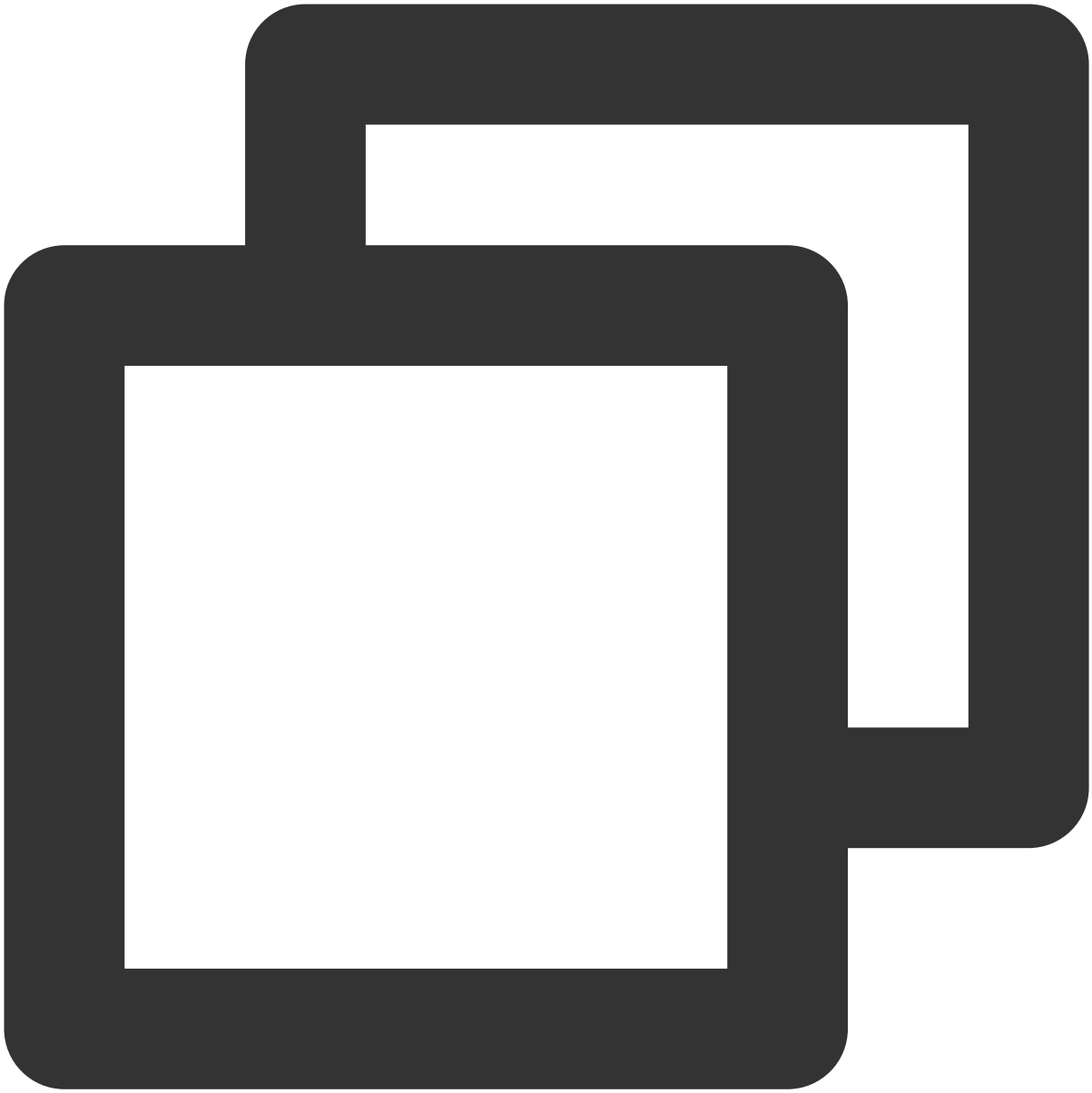

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 805
Connection: close
Date: Fri, 24 May 2019 11:59:51 GMT
Server: tencent-cos
x-cos-request-id: NWNlN2RjYjdfOGFiMjM1MGFfNTVjMl8zMmI1****

<ListAllMyBucketsResult>
    <Owner>
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
```

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```
        <DisplayName>100000000001</DisplayName>
    </Owner>
    <Buckets>
        <Bucket>
            <Name>examplebucket1-1250000000</Name>
            <Location>ap-beijing</Location>
            <CreationDate>2019-05-24T11:49:50Z</CreationDate>
        </Bucket>
        <Bucket>
            <Name>examplebucket2-1250000000</Name>
            <Location>ap-beijing</Location>
            <CreationDate>2019-05-24T11:51:50Z</CreationDate>
        </Bucket>
        <Bucket>
            <Name>examplebucket3-1250000000</Name>
            <Location>eu-frankfurt</Location>
            <CreationDate>2019-05-24T11:53:50Z</CreationDate>
        </Bucket>
        <Bucket>
            <Name>examplebucket4-1250000000</Name>
            <Location>eu-frankfurt</Location>
            <CreationDate>2019-05-24T11:55:50Z</CreationDate>
        </Bucket>
    </Buckets>
</ListAllMyBucketsResult>
```

Example 2. Querying the list of buckets in a specific region (filtered by domain name)

Request

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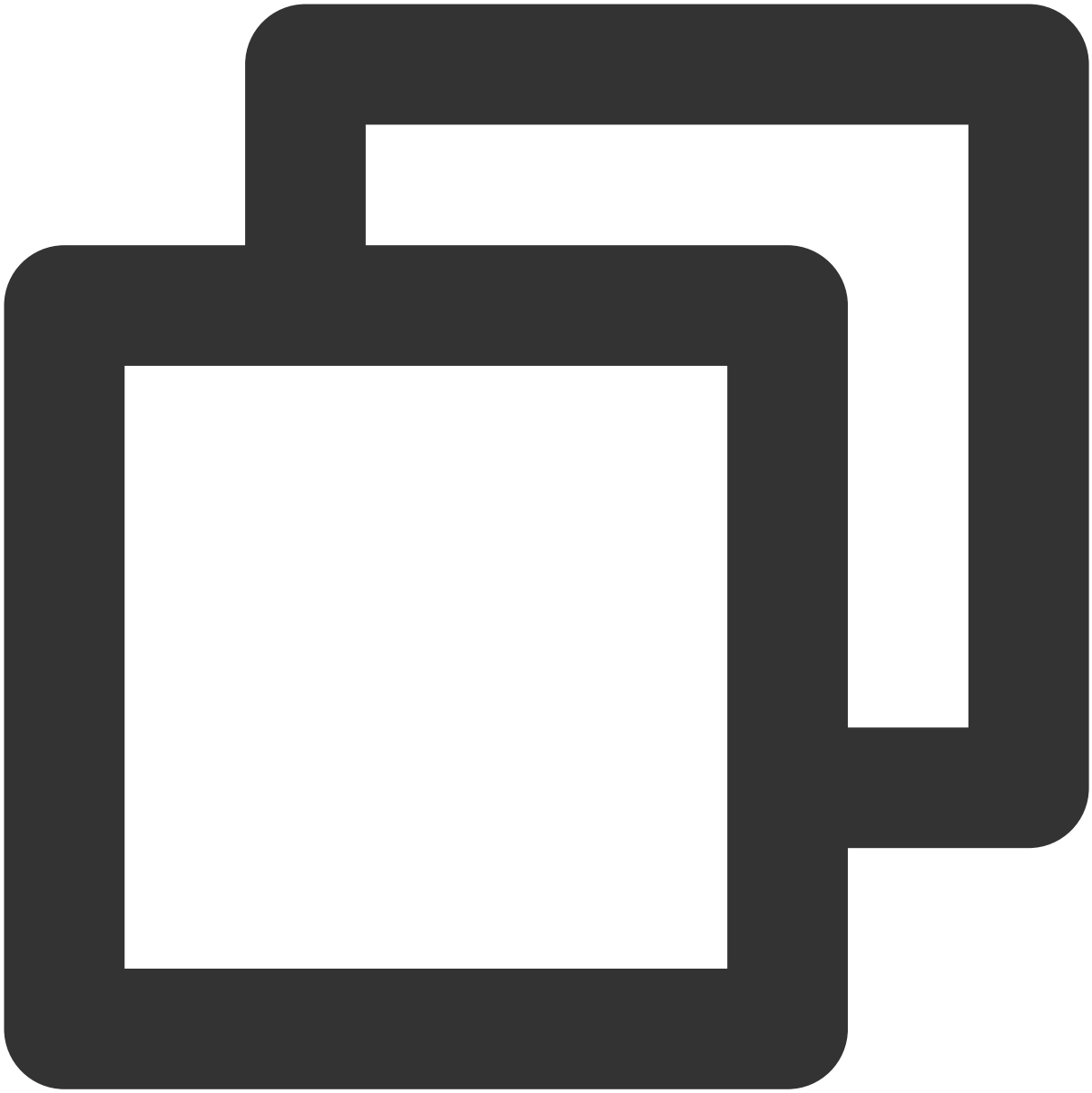

```
GET / HTTP/1.1
Host: cos.ap-beijing.myqcloud.com
Date: Fri, 24 May 2019 11:59:51 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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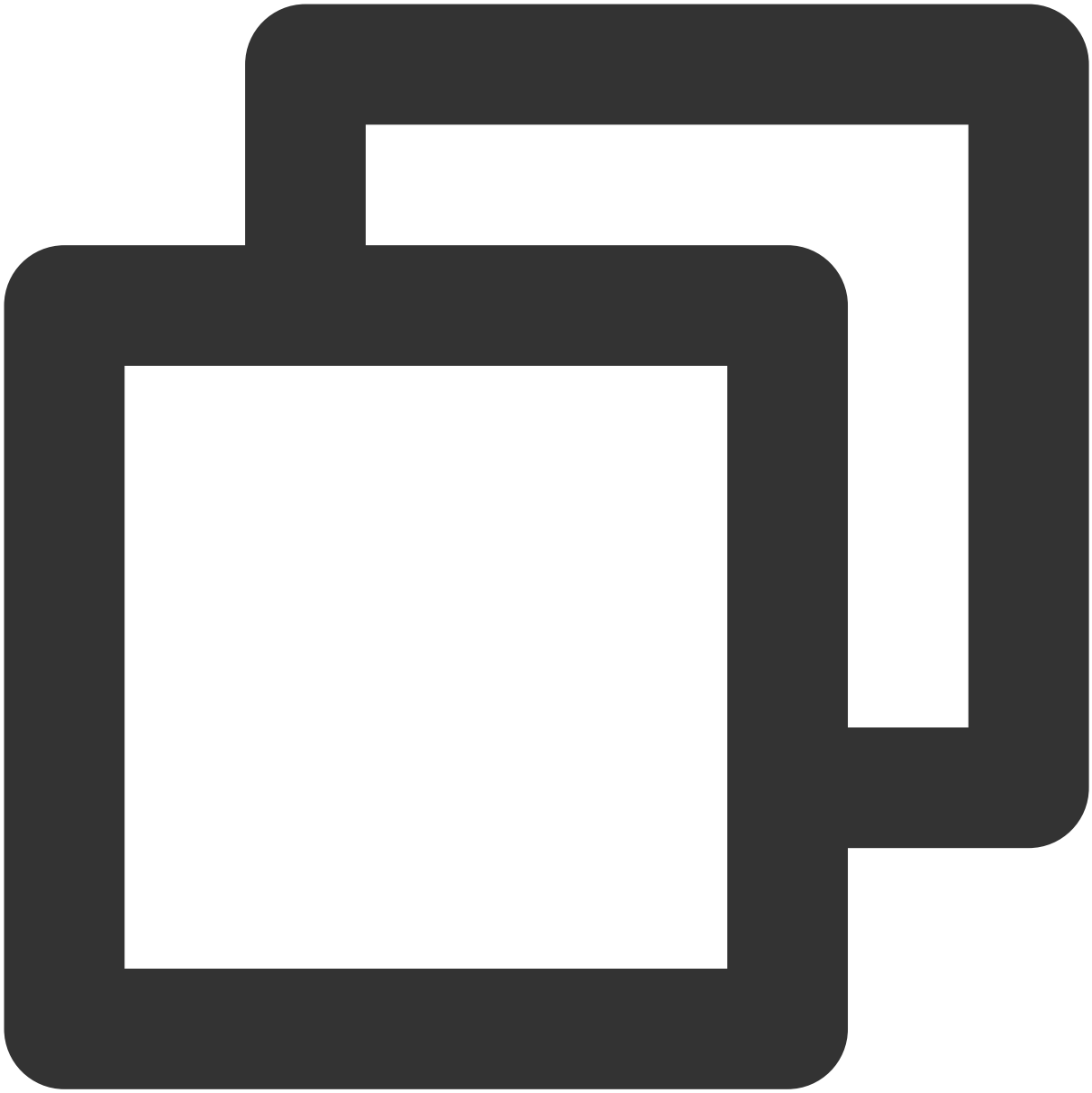

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 495
Connection: close
Date: Fri, 24 May 2019 11:59:51 GMT
Server: tencent-cos
x-cos-request-id: NWNlN2RjYjdfZjhjODBiMDlfOWNlNF9hYzc2****

<ListAllMyBucketsResult>
    <Owner>
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
```

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```
        <DisplayName>100000000001</DisplayName>
    </Owner>
    <Buckets>
        <Bucket>
            <Name>examplebucket1-1250000000</Name>
            <Location>ap-beijing</Location>
            <CreationDate>2019-05-24T11:49:50Z</CreationDate>
        </Bucket>
        <Bucket>
            <Name>examplebucket2-1250000000</Name>
            <Location>ap-beijing</Location>
            <CreationDate>2019-05-24T11:51:50Z</CreationDate>
        </Bucket>
    </Buckets>
</ListAllMyBucketsResult>
```

Example 3. Querying the list of buckets in a specific region (filtered by request parameter)

Request

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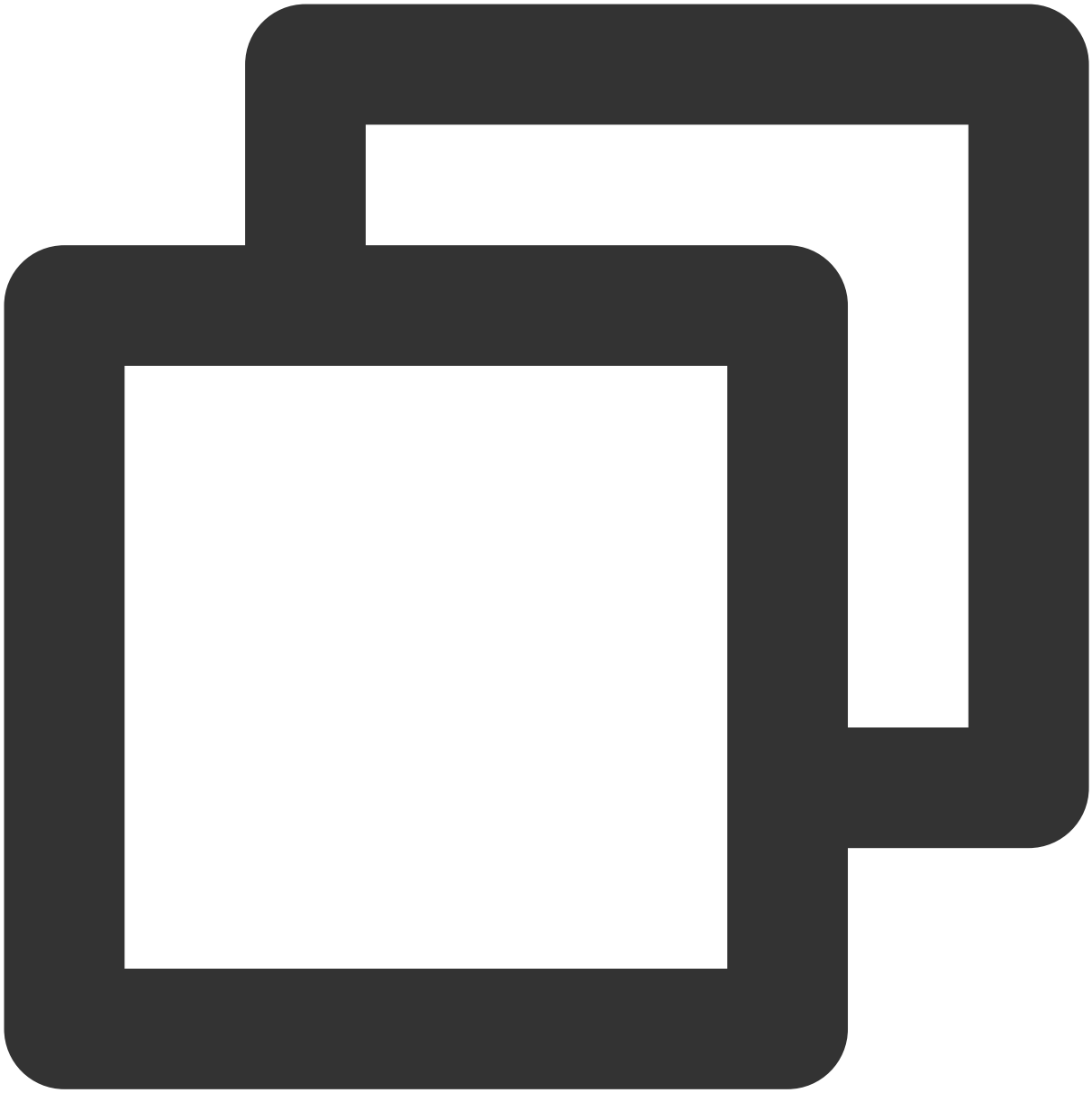

```
GET /?region=ap-beijing HTTP/1.1
Host: service.cos.myqcloud.com
Date: Fri, 24 May 2019 11:59:51 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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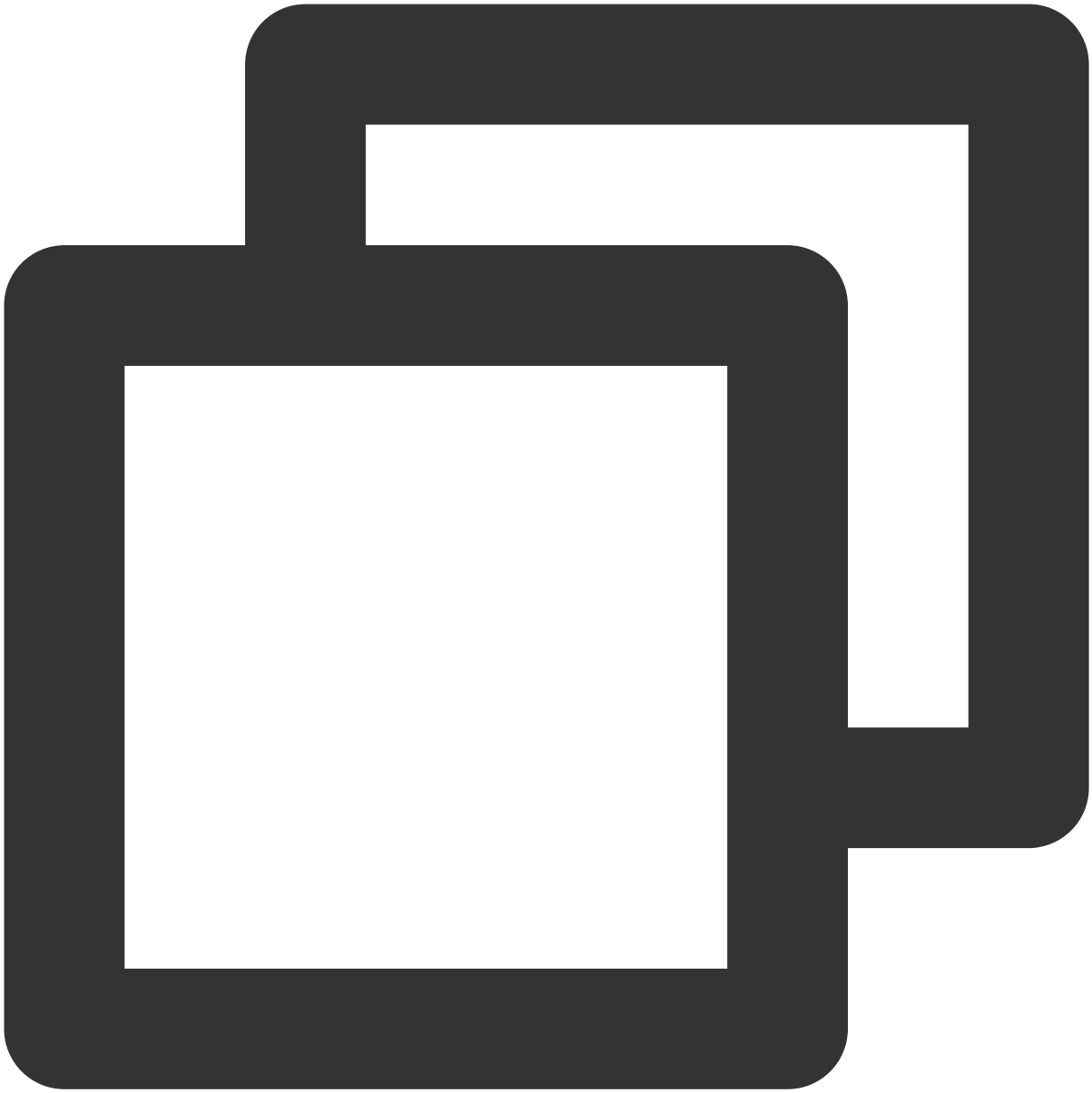

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 495
Connection: close
Date: Fri, 24 May 2019 11:59:51 GMT
Server: tencent-cos
x-cos-request-id: NWNlN2RjYjdfZjhjODBiMDlfOWNlNF9hYzc2****

<ListAllMyBucketsResult>
    <Owner>
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
```

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```
        <DisplayName>100000000001</DisplayName>
    </Owner>
    <Buckets>
        <Bucket>
            <Name>examplebucket1-</Name>
            <Location>ap-beijing</Location>
            <CreationDate>2019-05-24T11:49:50Z</CreationDate>
        </Bucket>
        <Bucket>
            <Name>examplebucket2-1250000000</Name>
            <Location>ap-beijing</Location>
            <CreationDate>2019-05-24T11:51:50Z</CreationDate>
        </Bucket>
    </Buckets>
</ListAllMyBucketsResult>
```

Example 4. Filtering buckets by the specified tag

The tag of bucket examplebucket-1250000000 is

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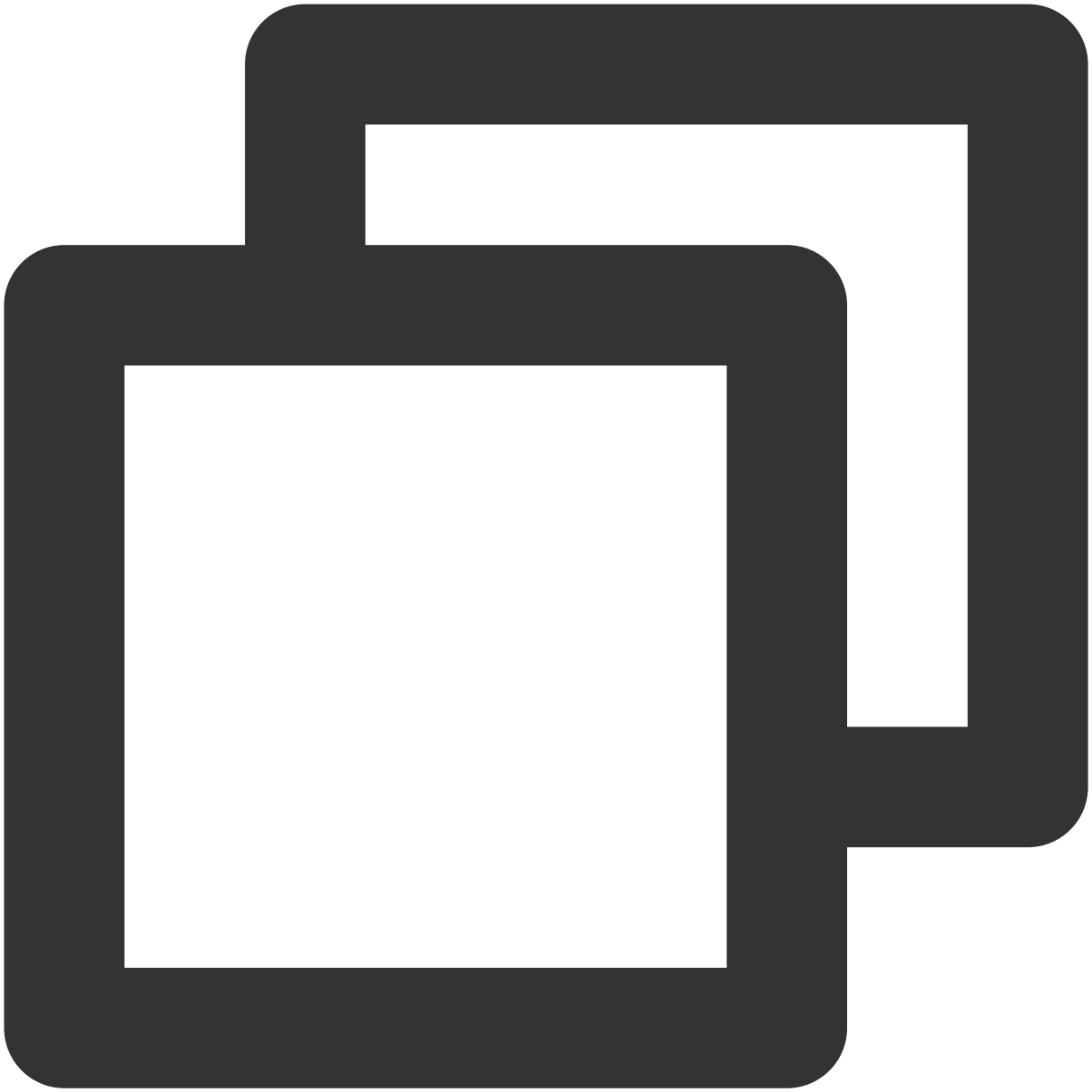

```
<key1, value1>
```

and the tags of bucket examplebucket1-1250000000 are

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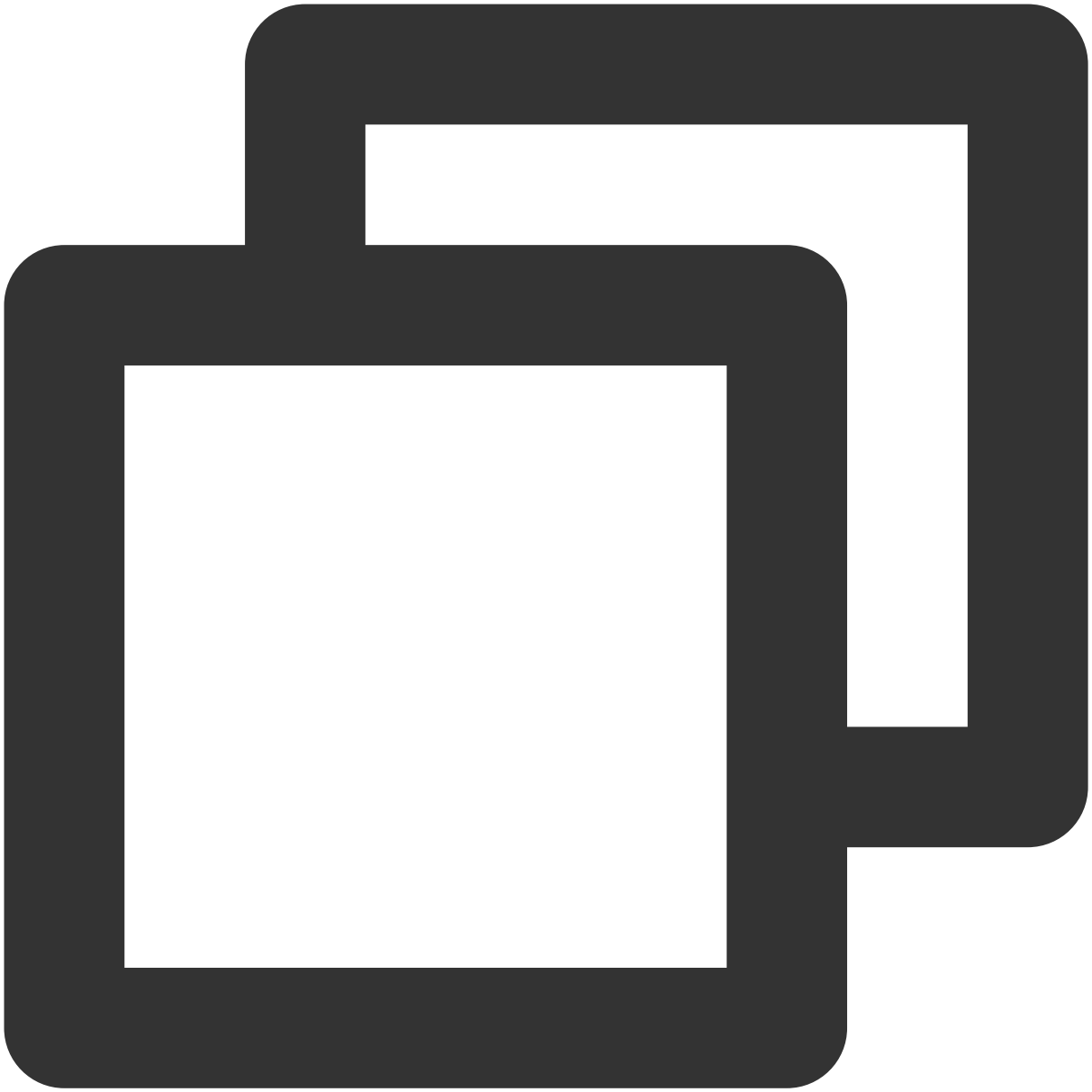

```
<key1, value1> and <key2, value2>
```

Request

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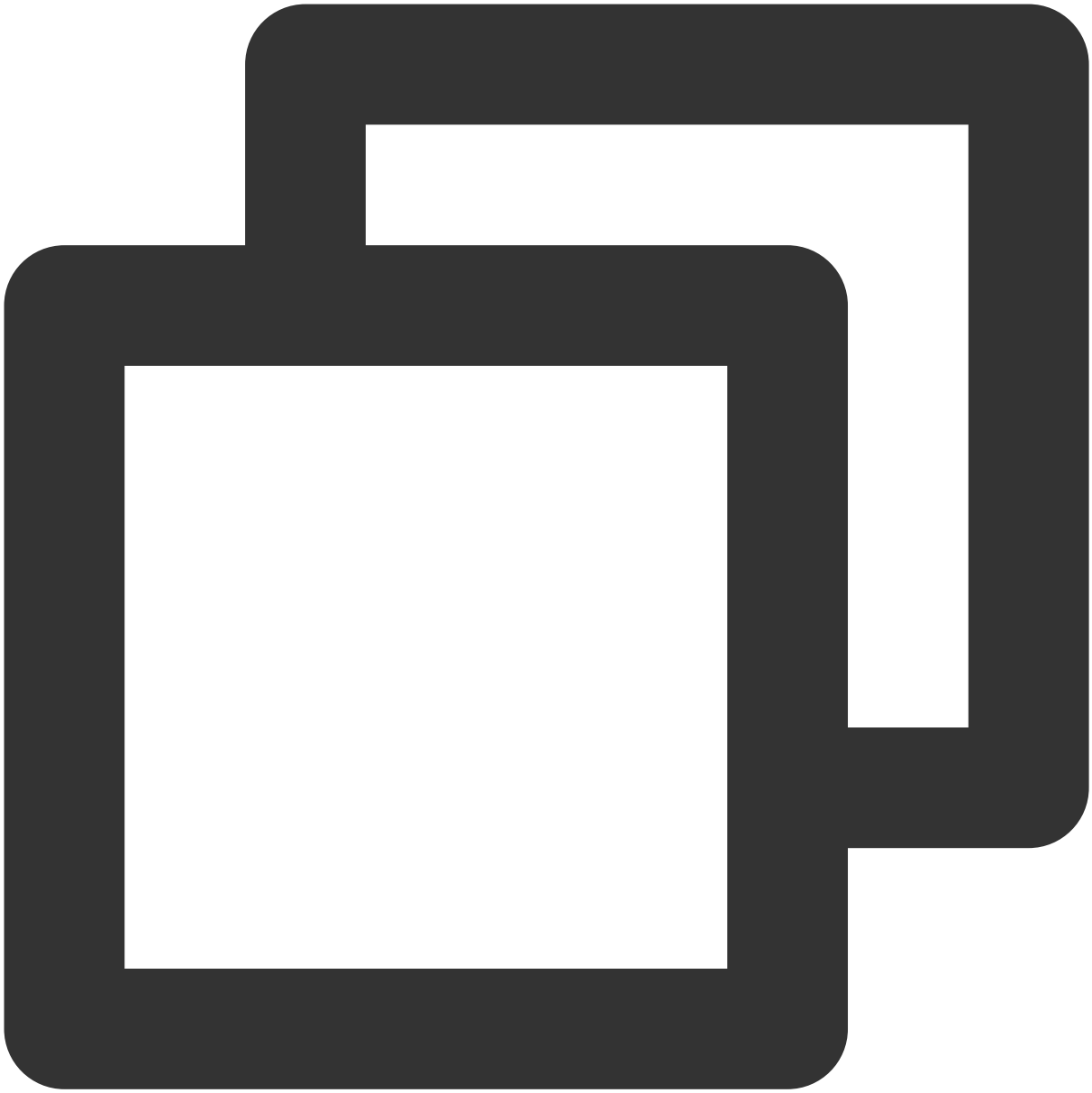

```
GET /?tagkey=key1&tagvalue=value1 HTTP/1.1
Host: service.cos.myqcloud.com
Date: Fri, 24 May 2019 11:59:51 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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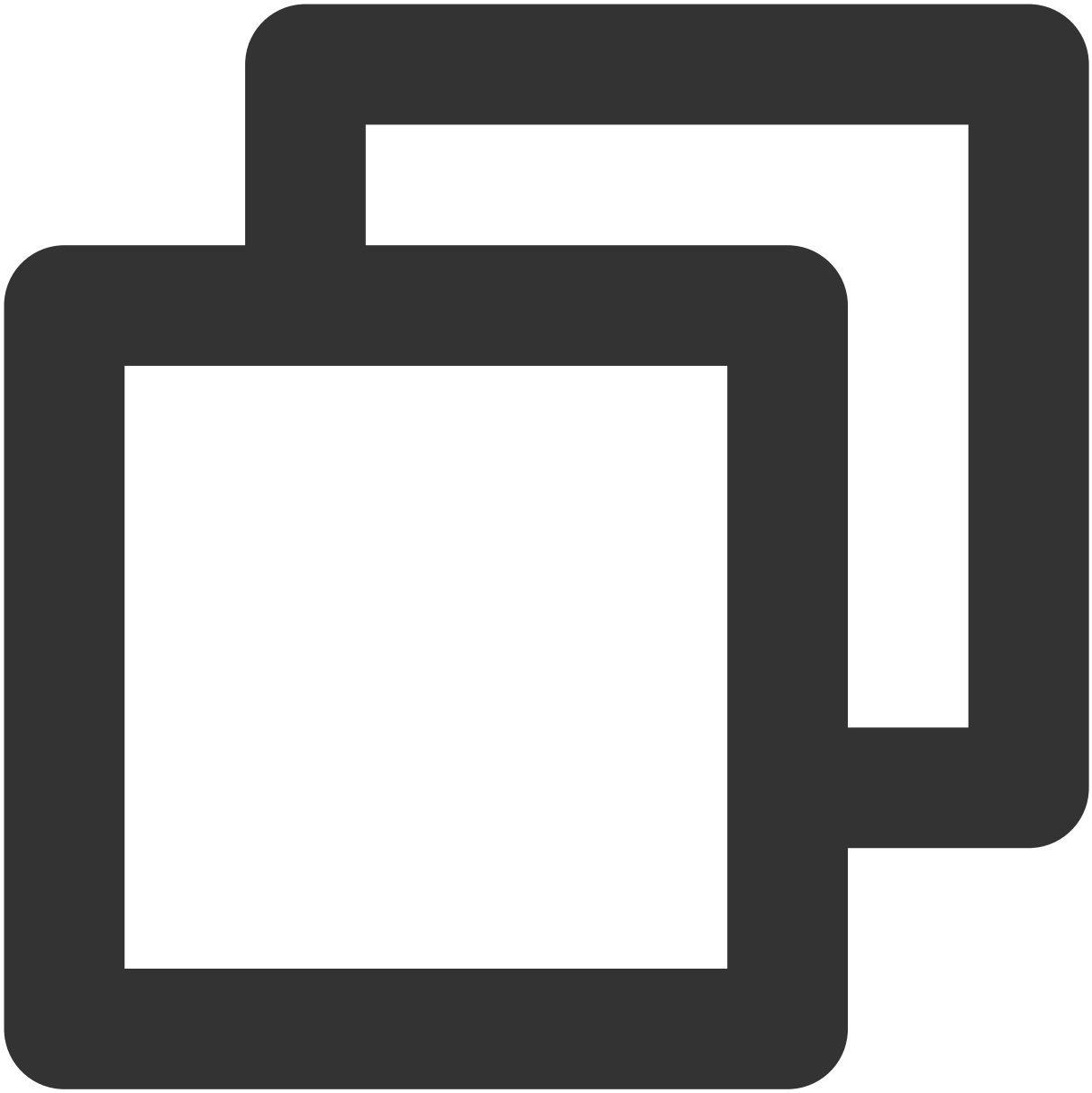

```
HTTP/1.1 200 OK
Content-Length: 378
Content-Type: application/xml
Server: tencent-cos
Connection: keep-alive
Date: Thu, 20 Oct 2022 07:29:40 GMT
x-cos-request-id: NjM1MGY4ZTRfMWViMjM1MGFfYjg3MV8xNjdk****

<ListAllMyBucketsResult>
    <Owner>
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
```

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```
        <DisplayName>100000000001</DisplayName>
    </Owner>
    <Buckets>
        <Bucket>
            <Name>examplebucket-1250000000 </Name>
            <Location>ap-guangzhou</Location>
            <CreationDate>2022-04-11T03:01:49Z</CreationDate>
            <BucketType>cos</BucketType>
        </Bucket>
    </Buckets>
    <Buckets>
        <Bucket>
            <Name>examplebucket1-1250000000 </Name>
            <Location>ap-guangzhou</Location>
            <CreationDate>2022-04-12T03:01:49Z</CreationDate>
            <BucketType>cos</BucketType>
        </Bucket>
    </Buckets>
</ListAllMyBucketsResult>
```

Example 5. Filtering buckets by creation time

List buckets created before `2022-1-20 15:10:45` .

Request

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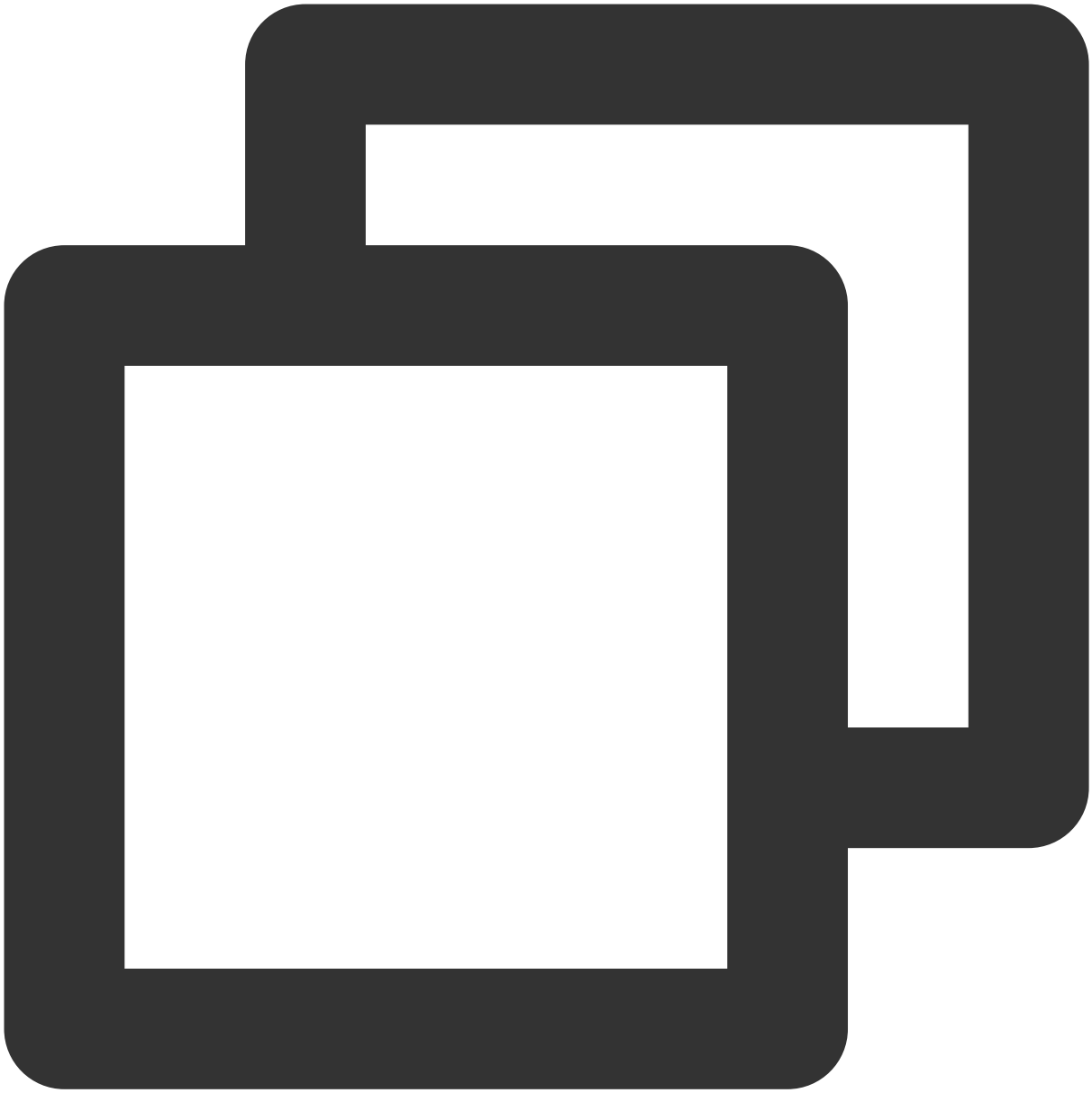

```
GET /?range=lt&create-time=1642662645 HTTP/1.1
Host: service.cos.myqcloud.com
User-Agent: curl/7.64.1
Accept: */*
Authorization: q-sign-algorithm=sha1&q-ak=AKIDYv3vWrwkHXVDfqk*****&q-sign-time=1667
```

Response

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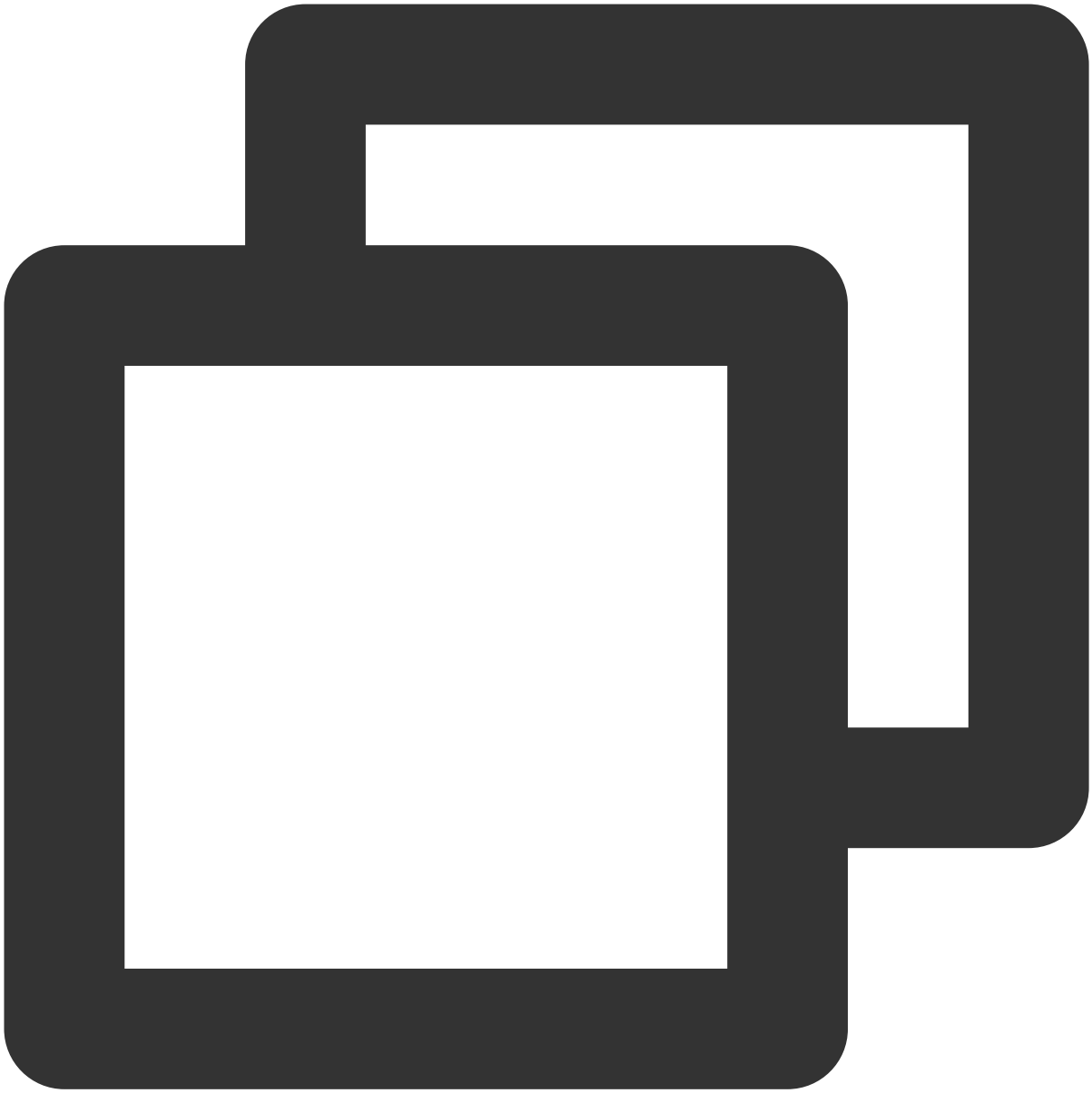

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 5566
Connection: keep-alive
Date: Thu, 03 Nov 2022 04:14:23 GMT
Server: tencent-cos
x-cos-request-id: NjM2MzQwMWZfMmJiMjM1MGFfYTc******

<ListAllMyBucketsResult>
    <Owner>
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
```

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```
        <DisplayName>100000000001</DisplayName>
    </Owner>
    <Buckets>
        <Bucket>
            <Name>examplebucket-1250000000</Name>
            <Location>ap-beijing</Location>
            <CreationDate>2021-11-23T03:02:12Z</CreationDate>
            <BucketType>cos</BucketType>
        </Bucket>
    </Buckets>
</ListAllMyBucketsResult>
```

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Bucket APIs
Basic Operations
PUT Bucket

Last updated：2024-03-28 18:08:32

Overview

This API is used to create a bucket under a specified account. A signature needs to be carried in `Authorization` and anonymous calls are not supported. By default, the bucket creator is the bucket owner.

Note:

If no access permission is specified for a bucket when it is created, `private` (private read/write) will be used by default.

To create an MAZ bucket, you should indicate the bucket configuration through the request body; otherwise, you don't need to pass in the request body.

Request

Sample request

Sample 1

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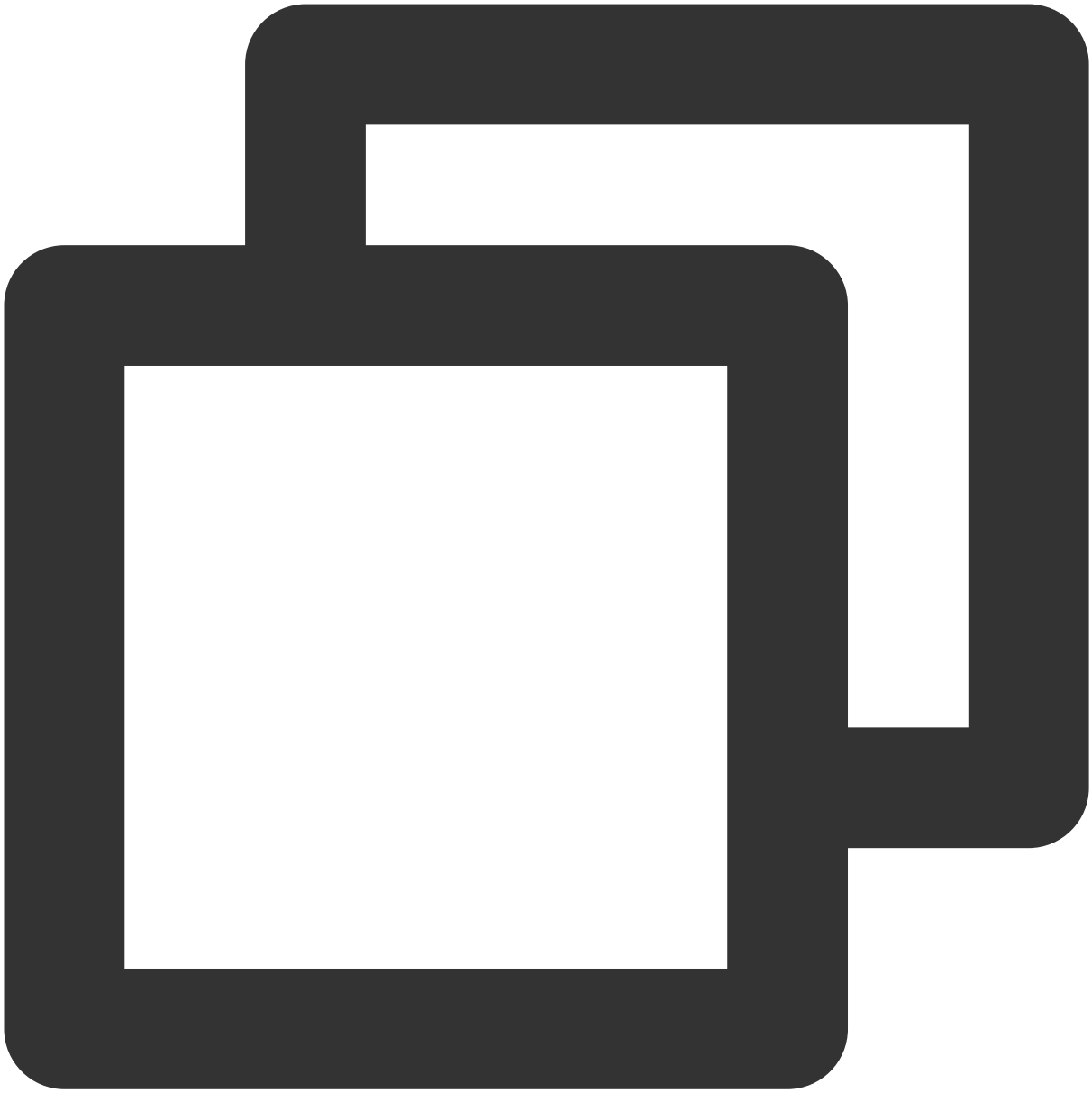

```
PUT / HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Length: 0
Authorization: Auth String
```

Sample 2

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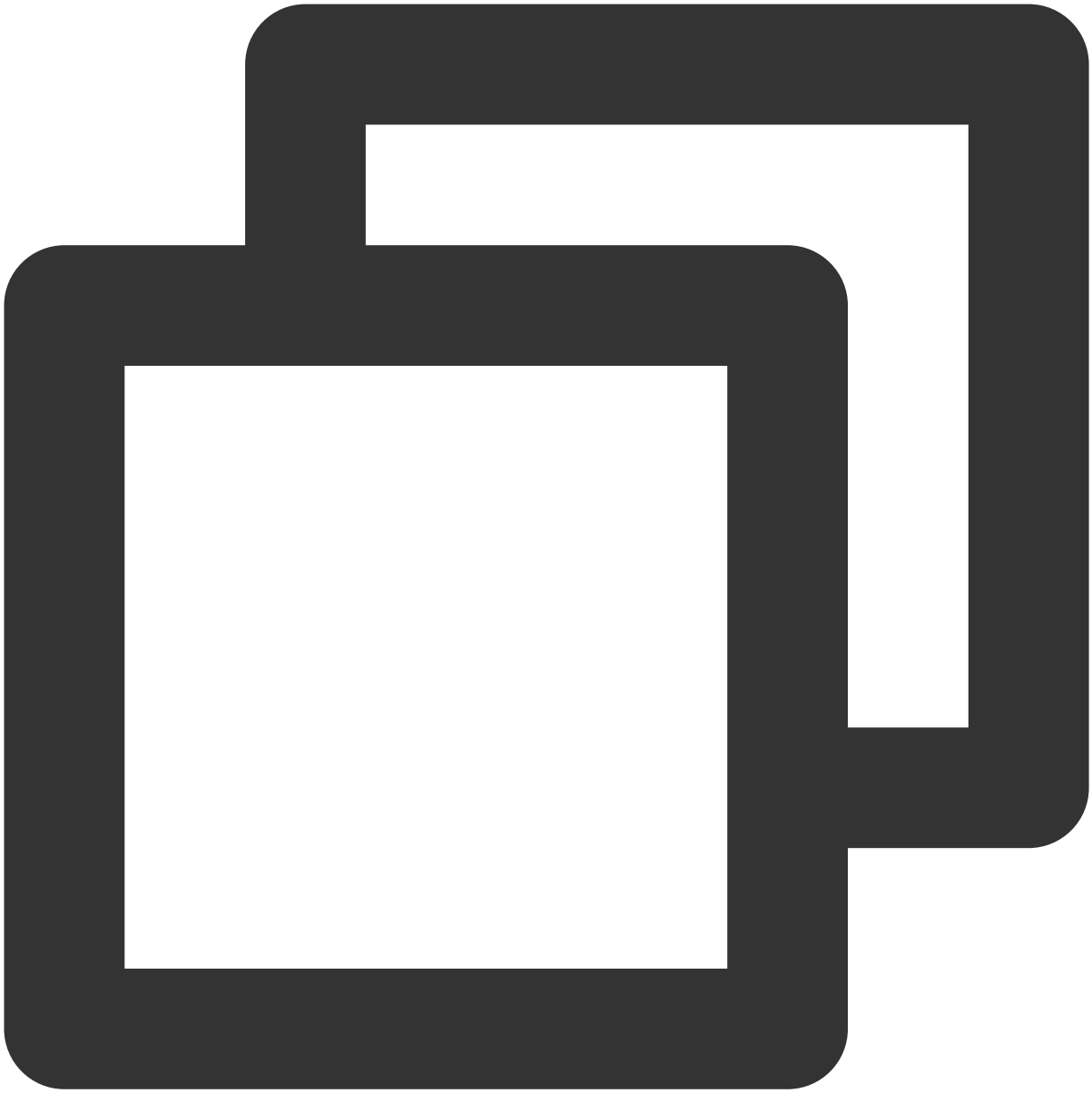

```
PUT / HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String

[Request Body]
```

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Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

In addition to common request headers, this API also supports the following request headers. For more information about common request headers, please see Common Request Headers.

Header	Description	Type	Required
x-cos-tagging	Adds up to 50 tags to a bucket during bucket creation, such as `key1=value1&key2=value2`.	string	No

ACL-related headers

You can configure an access control list (ACL) for a bucket by specifying the following request headers during bucket creation:

Header	Description	Type	Required
x-cos-acl	Defines the access control list (ACL) attribute of the bucket. For the enumerated values such as `private` (default) and `public-read`, please see the **Preset ACL** section in ACL Overview.	Enum	No
x-cos-grant-read	Grants a user permission to read the bucket in the format of `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-write	Grants a user permission to write to the bucket in the format of `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-read-acp	Grants a user permission to read the ACL and policies of the bucket in the format of `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No

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x-cos-grant-write-acp	Grants a user permission to write to the ACL and policies of a bucket in the format of `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"` .	string	No
x-cos-grant-full-control	Grants a user full permission to operate on the bucket in the format of `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"` .	string	No

Request body

Submit the **application/xml** request data only when you need to create an MAZ bucket, which includes the configuration information for bucket creation; otherwise, you don't need to pass in the request body.

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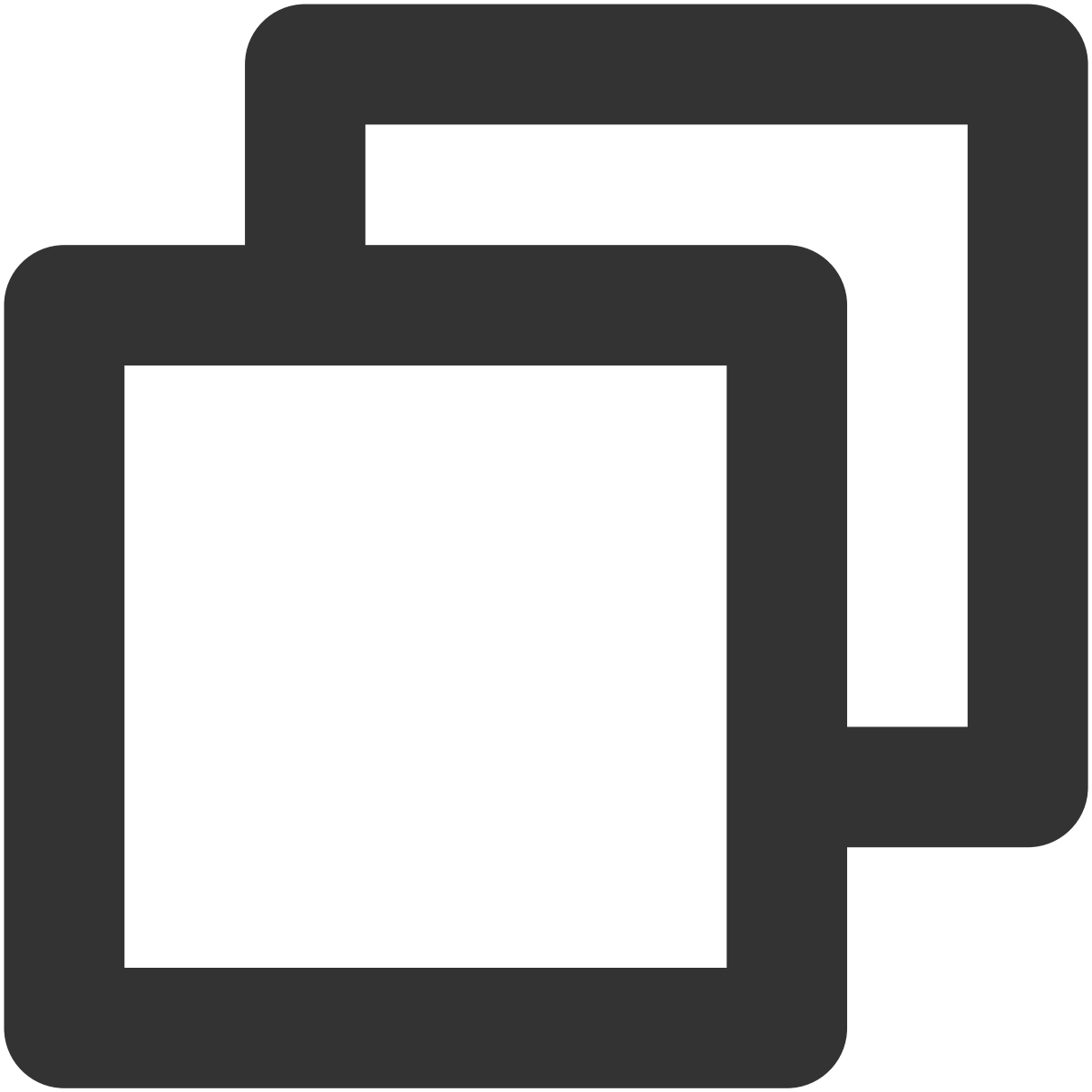

```
<CreateBucketConfiguration>
    <BucketAZConfig>string</BucketAZConfig>
</CreateBucketConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
CreateBucketConfiguration	None	All configurations of the `PUT Bucket` request	Container	No

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`CreateBucketConfiguration` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
BucketAZConfig	CreateBucketConfiguration	AZ configuration of the bucket. To create an MAZ bucket, specify `MAZ` .	string	Yes

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example 1: simple use case (OAZ bucket)

Request

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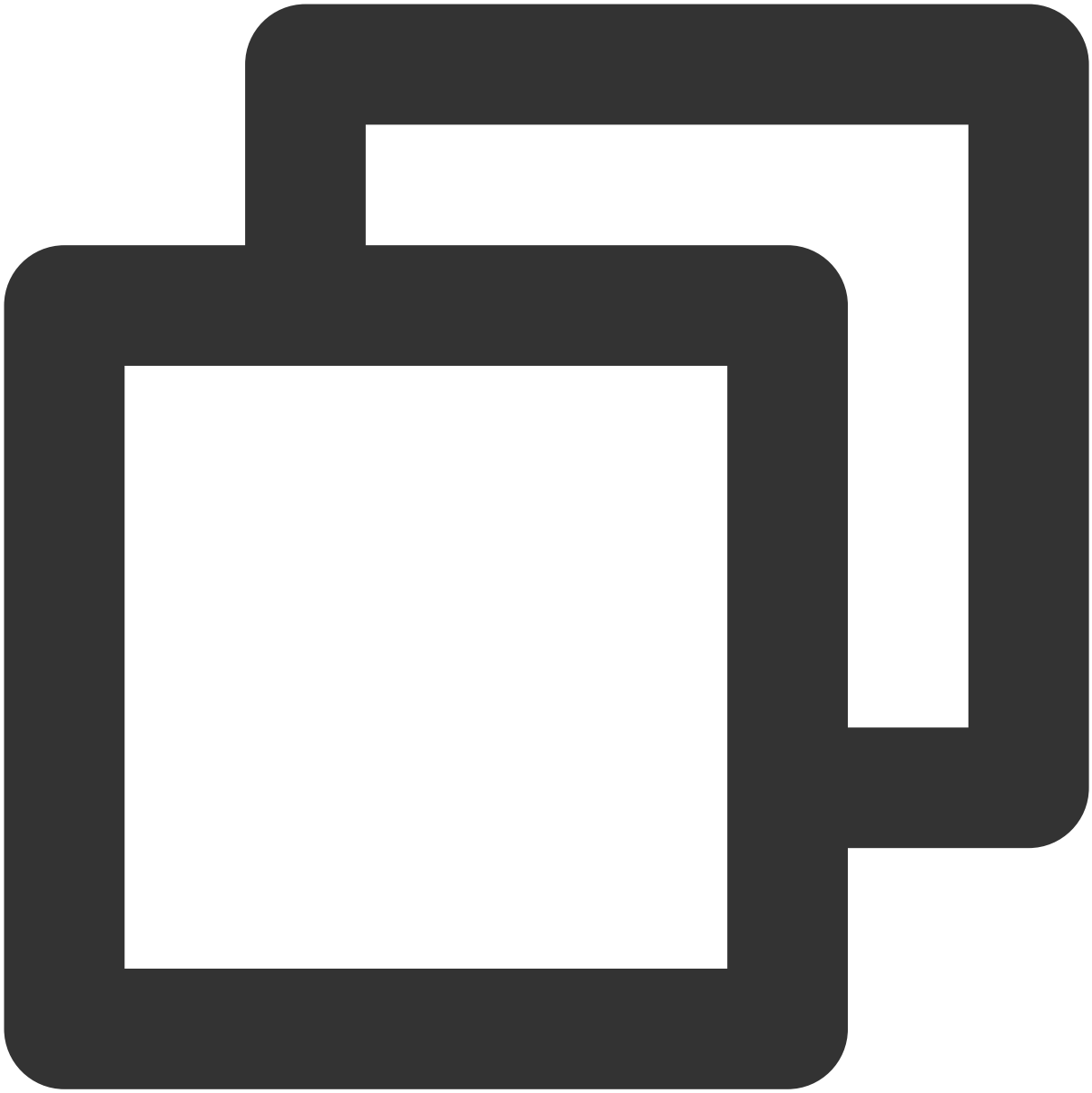

```
PUT / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sun, 26 May 2019 14:51:38 GMT
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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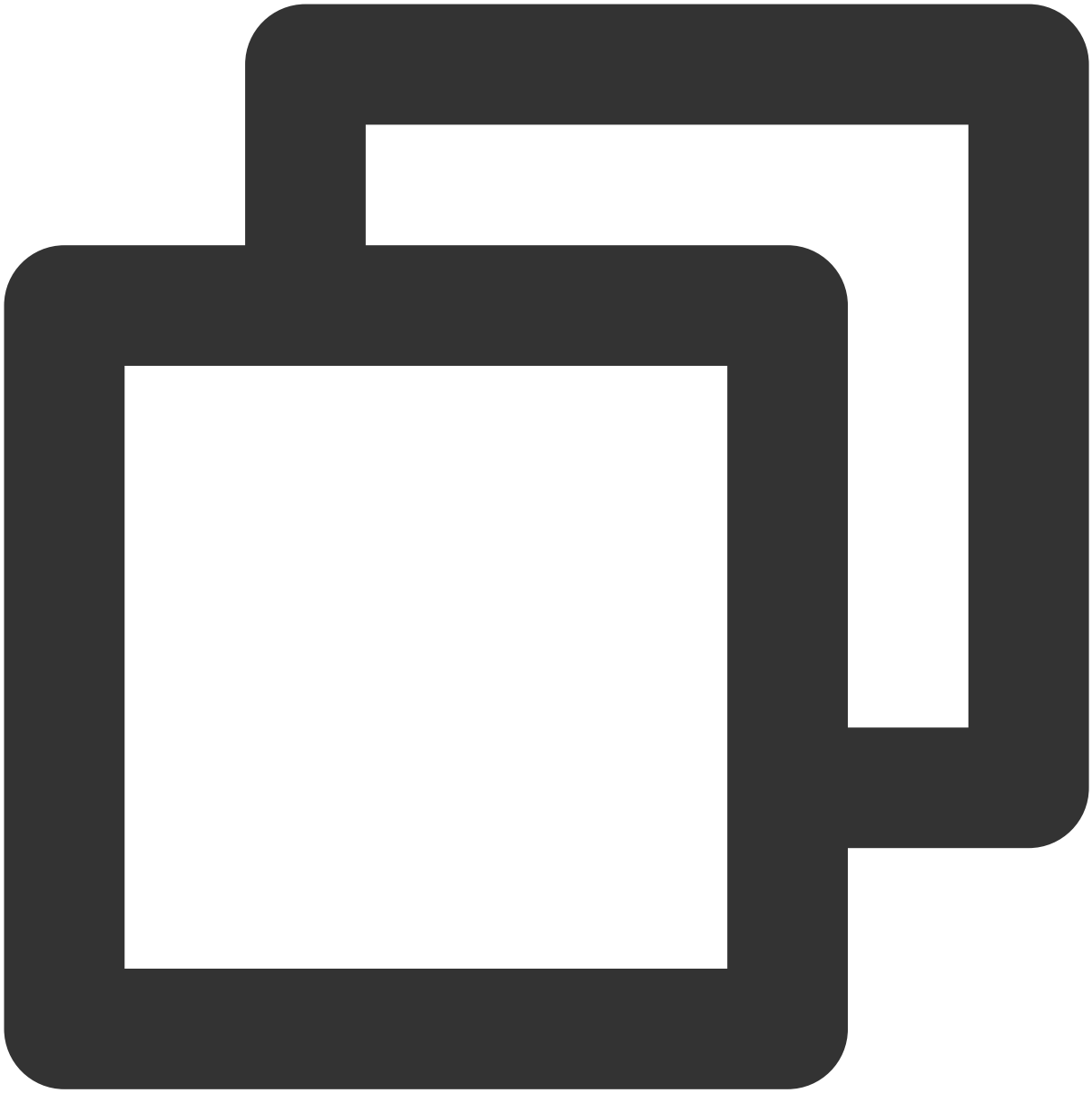

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Sun, 26 May 2019 14:51:37 GMT
Server: tencent-cos
x-cos-request-id: NWNlYWE3ZjlfZDQyNzVkNjRfMzg1N18yNzFh****
```

Example 2: setting `public-read` and granting a user permissions to write to the bucket and read the bucket ACL and policies

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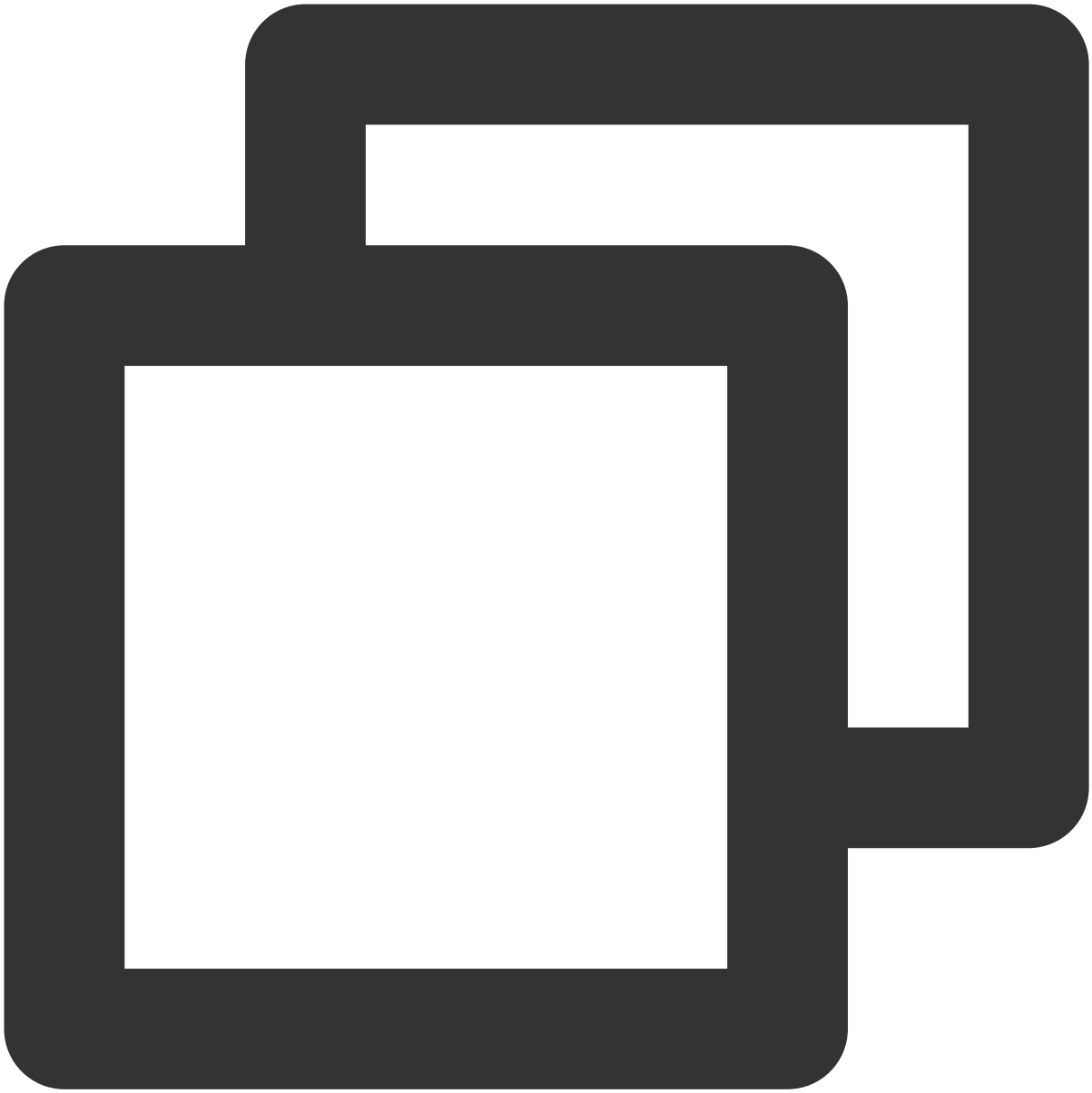
Request



```
PUT / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 14 Jun 2019 13:48:59 GMT
x-cos-acl: public-read
x-cos-grant-write: id="100000000002"
x-cos-grant-read-acp: id="100000000002"
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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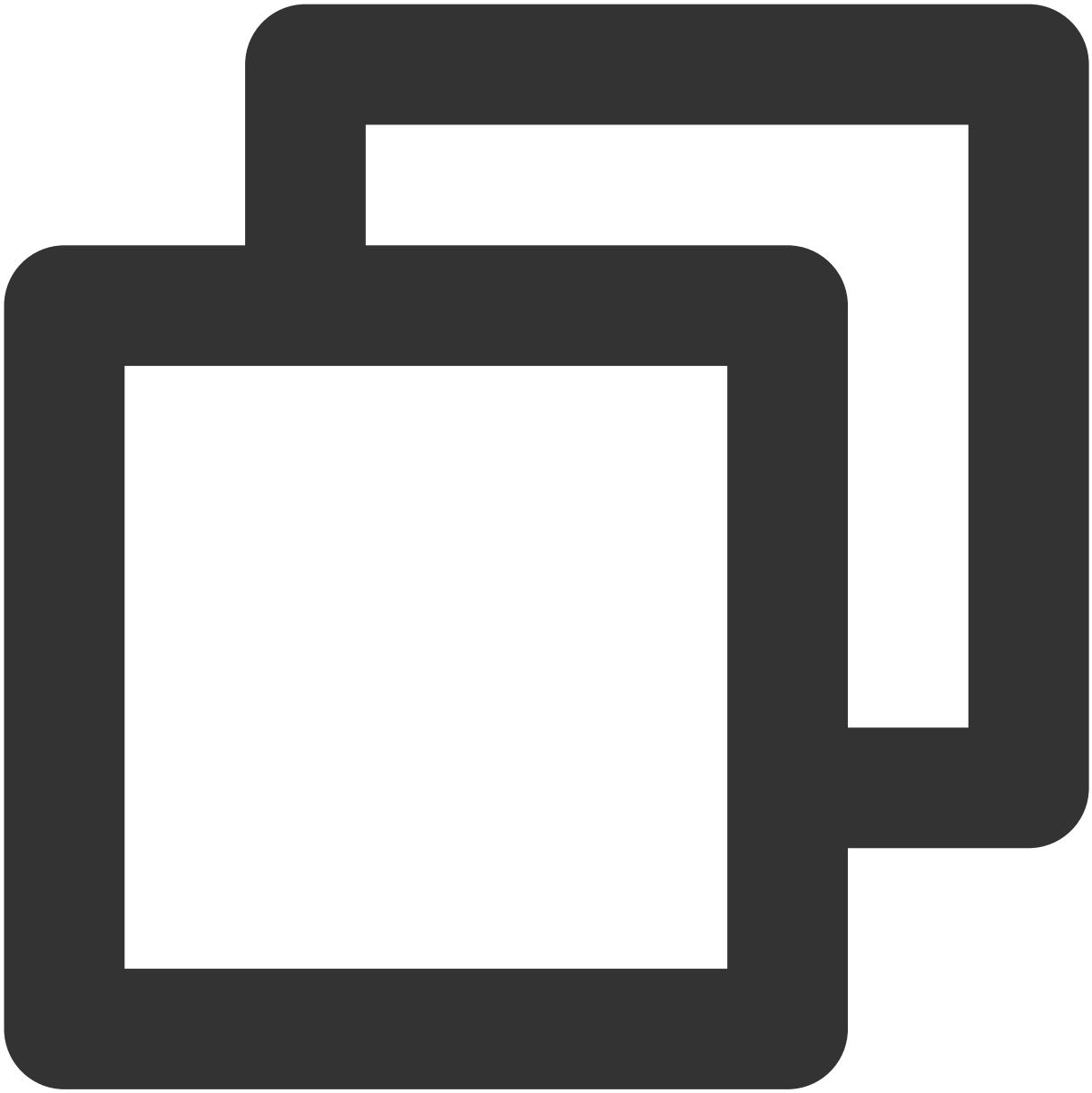
Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Fri, 14 Jun 2019 13:49:00 GMT
Server: tencent-cos
x-cos-request-id: NWQwM2E1Y2NfZjBhODBiMDlfOTM1YV83NDRi****
```

Sample 3: Creating an MAZ bucket

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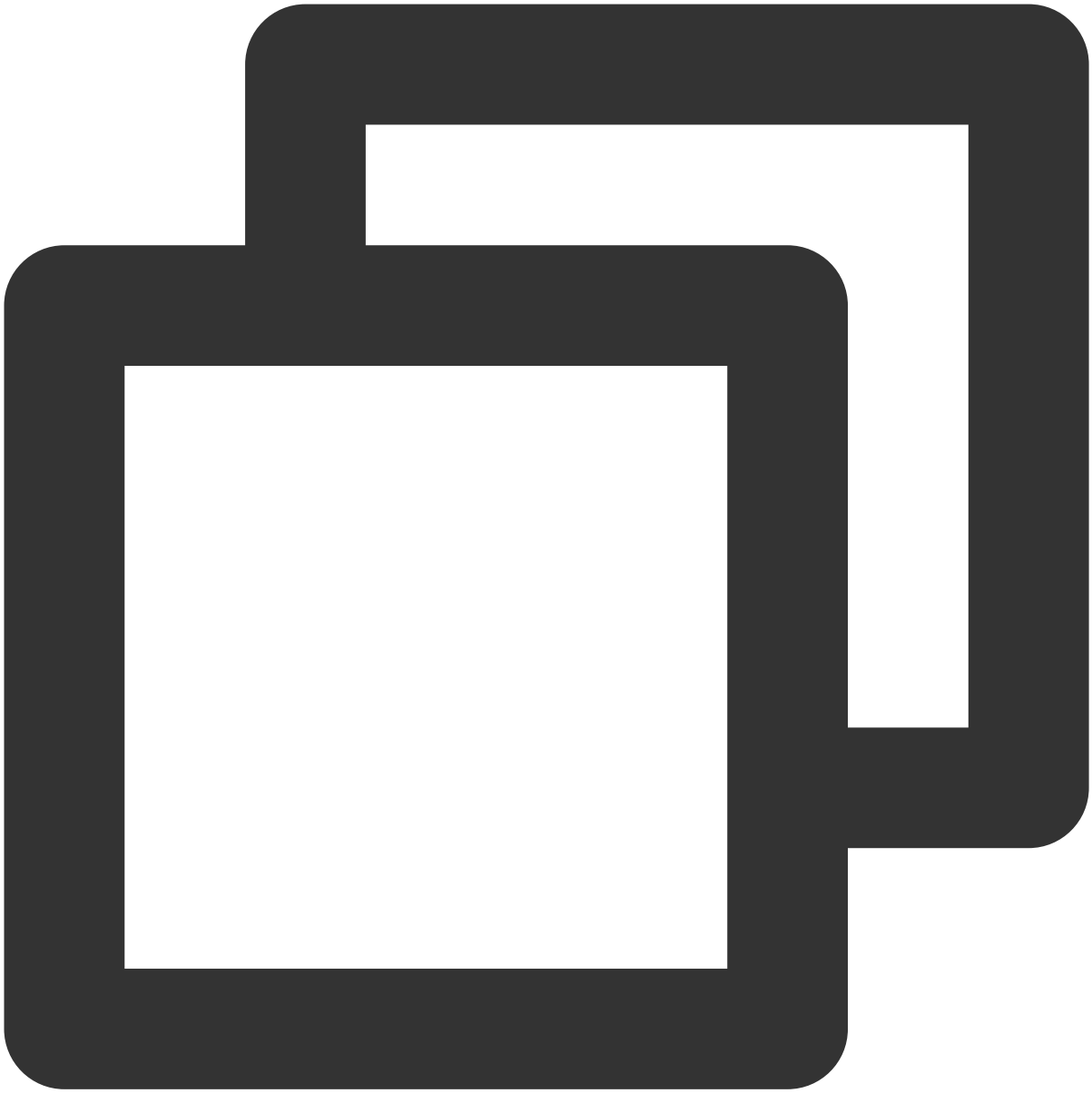
Request



```
PUT / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 04 Jun 2020 06:06:09 GMT
Content-Type: application/xml
Content-Length: 96
Content-MD5: R1ES/YbddhKJK/wcN+f4yg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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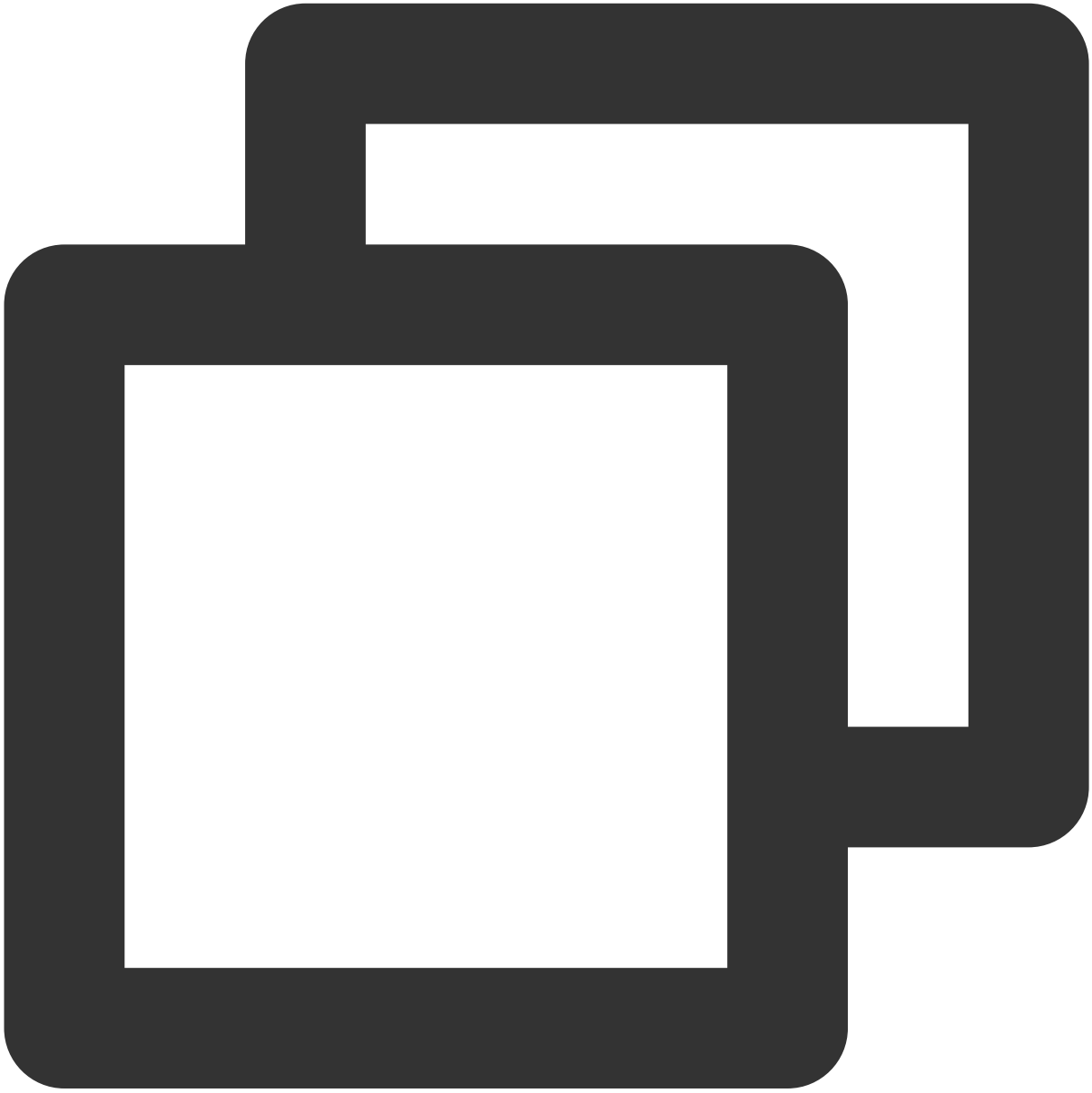
```
<CreateBucketConfiguration>
    <BucketAZConfig>MAZ</BucketAZConfig>
</CreateBucketConfiguration>
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Thu, 04 Jun 2020 06:06:10 GMT
Server: tencent-cos
```

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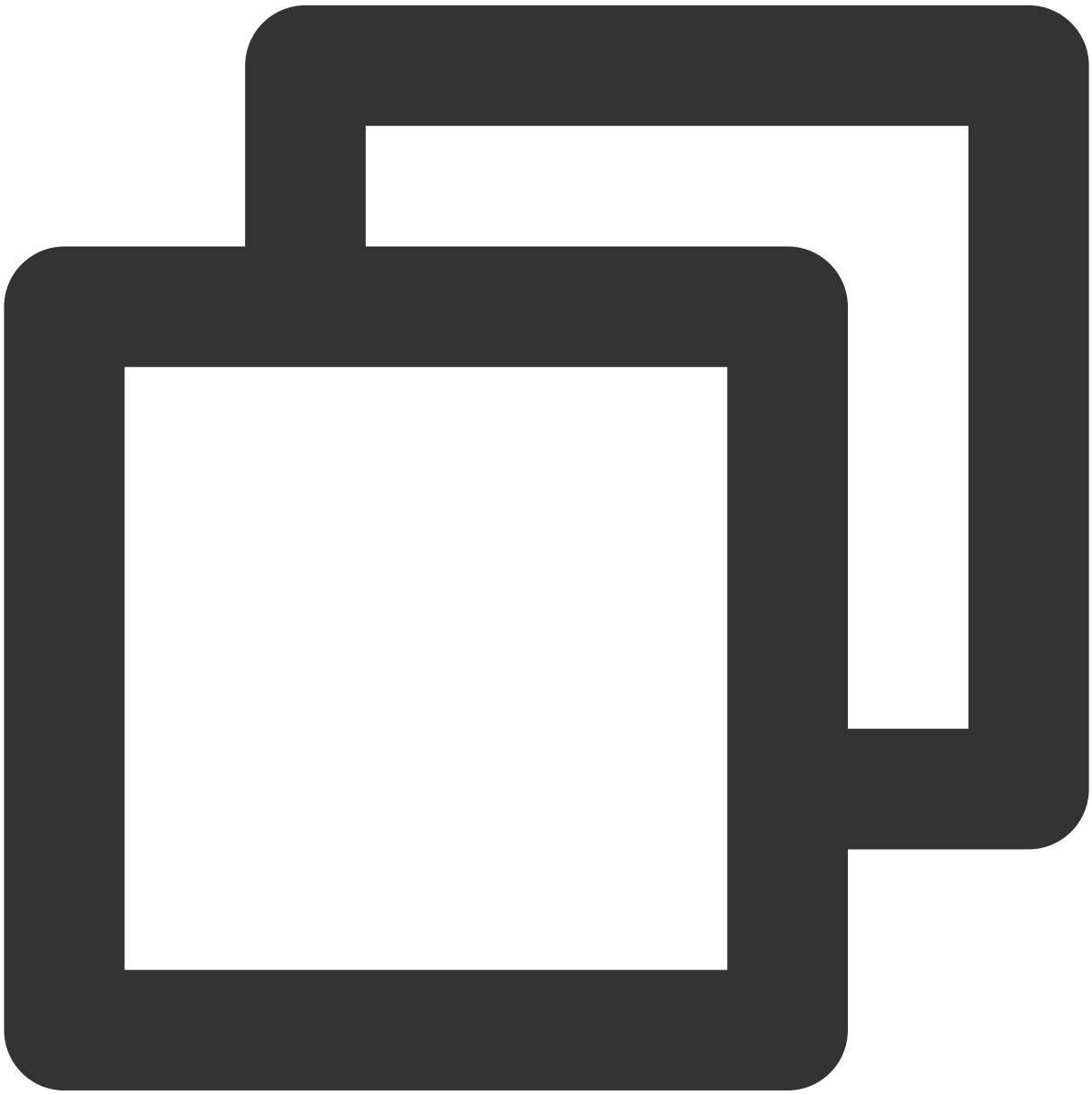
```
x-cos-request-id: NWVkODhmNTFfM2JiODJhMDlfMjg4NmFfMzA5ZmE2****
```

Sample 4: Creating a bucket and adding tags

The following sample request is used to create the bucket `examplebucket-1250000000` in Beijing region and add two tags `<a,a>` and `<b,b>` to the bucket.

Request



```
PUT / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

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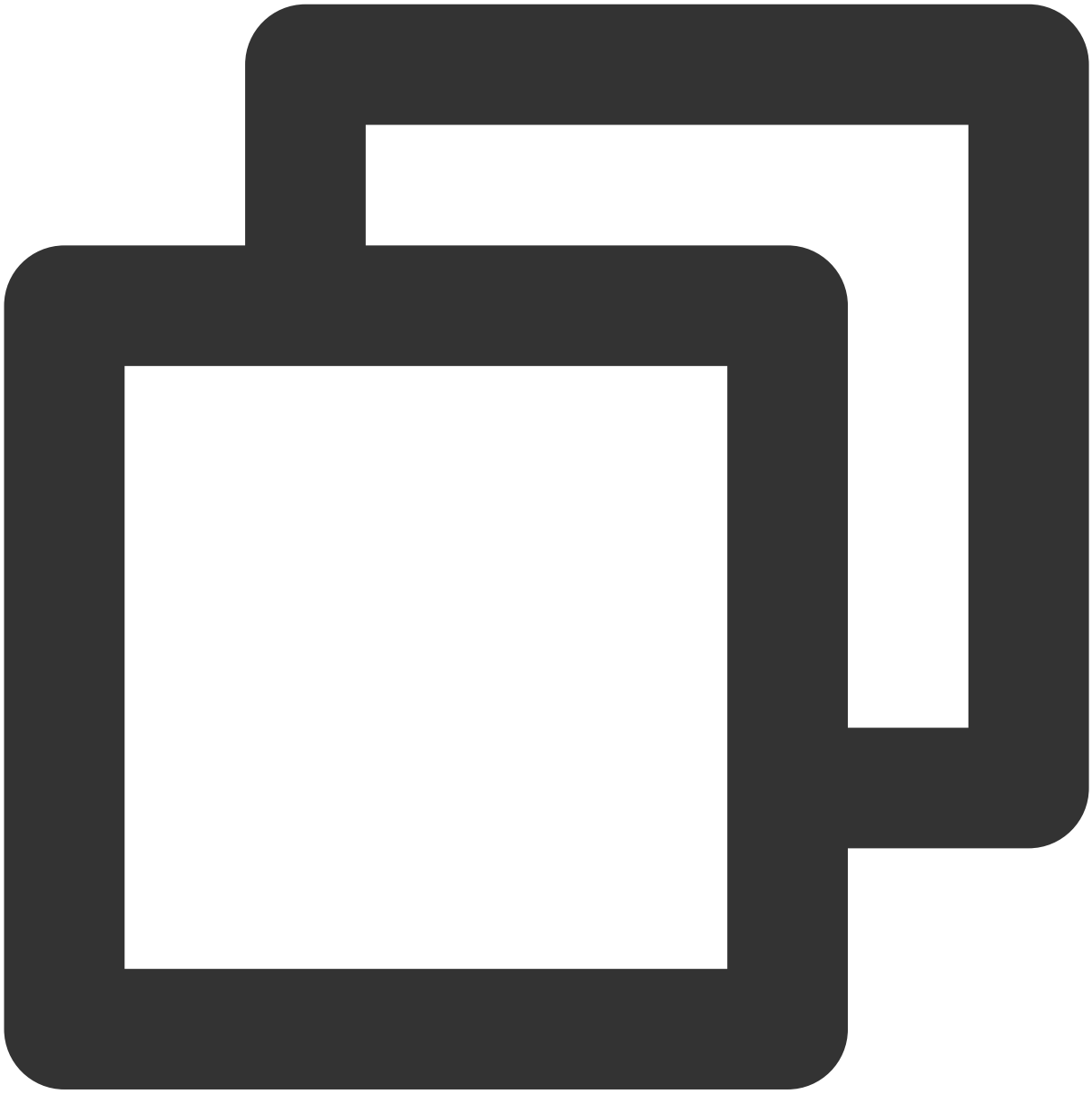
```
x-cos-tagging: a=a&b=b
Authorization: q-sign-algorithm=sha1&q-ak=AKIDYv3vWrwkHXVDf******&q-sign-time=16674
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
Date: Thu, 03 Nov 2022 03:43:30 GMT
Server: tencent-cos
x-cos-request-id: NjM2MzM4ZTJfZDRiNTE0M********
```

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GET Bucket (List Objects)

Last updated：2024-03-28 18:08:33

Overview

This API is equivalent to the `List Objects` API and can be used to list some or all objects in a bucket. To call this API, you need to have permission to read the bucket.

Note:

If you upload an object to the bucket and call the `GET Bucket` API immediately, due to the eventual consistency characteristic of this API, the response may not include the newly uploaded object.

Requests

Request example

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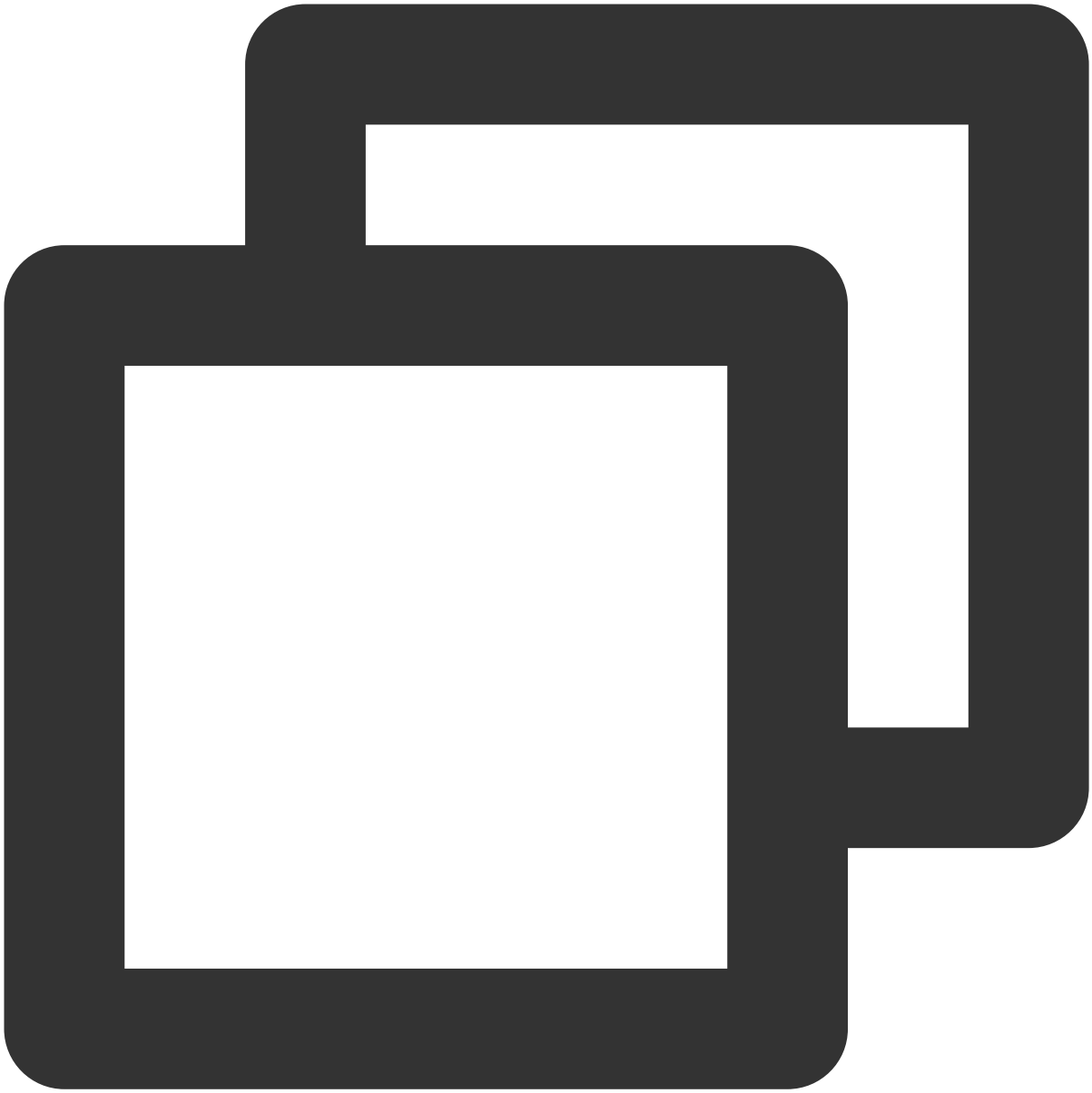

```
GET / HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request fields

Field	Description	Type	Required
prefix	Key prefix to query objects by	String	No
delimiter	Character delimiter used to group object keys. Keys that contain identical paths between the prefix (or, if no prefix is specified, the beginning of the string) and the first delimiter are grouped and defined as a `Prefix` node under `CommonPrefixes`. The grouped object keys will no longer appear in the subsequent object list. For specific scenarios and usage, see the samples below.	String	No
encoding-type	Encoding type of the returned value. Valid value: `url`, meaning that the returned object keys are URL-encoded (percent-encoded) values. For example, "Tencent Cloud" will be encoded to `%E8%85%BE%E8%AE%AF%E4%BA%91`.	String	No
marker	Marker for the starting object key. Object key entries will be returned in UTF-8 lexicographical order, starting from the first object key after the marker.	string	No
max-keys	The maximum number (up to 1,000) of keys returned in the response. Defaults to `1000`. **Note**: This parameter limits the maximum number of keys (the sum of `CommonPrefixes` and `Contents`) COS can return in each `List Objects` response. If not all objects are listed in a single response, COS will return the `NextMarker` node, the value of which can be used to specify `marker` so that the remaining objects can be listed in your next request.	integer	No

Request headers

This API only uses Common Request Headers.

Request body

This API does not have a request body.

Response

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Response headers

In addition to common response headers, this API also returns the following response headers. For more information about common response headers, please see Common Response Headers.

Header	Description	Type
x-cos-bucket-region	Bucket region, such as `ap-beijing`, `ap-hongkong`, and `eu-frankfurt`. For the enumerated values, please see Regions and Access Endpoints.	Enum

Response body

A successful query returns **application/xml** data, which contains information about objects in the bucket. For the response bodies of different scenarios, see the examples below.

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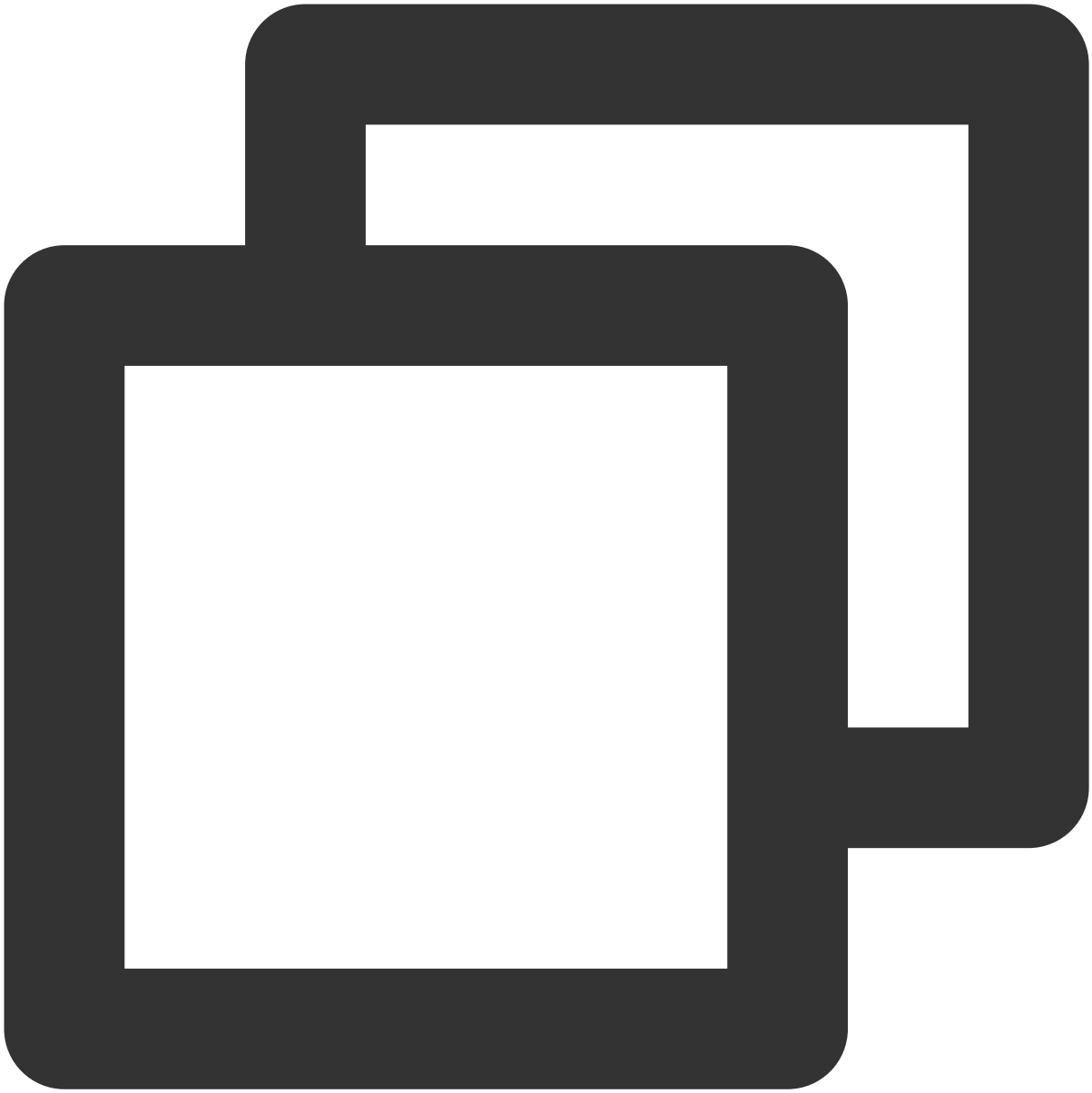

```
<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
            <Name>string</Name>
            <EncodingType>string</EncodingType>
            <Prefix>string</Prefix>
            <Marker>string</Marker>
            <MaxKeys>integer</MaxKeys>
            <Delimiter>string</Delimiter>
            <IsTruncated>boolean</IsTruncated>
            <NextMarker>string</NextMarker>
            <CommonPrefixes>
```

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```
            <Prefix>string</Prefix>
        </CommonPrefixes>
        <CommonPrefixes>
            <Prefix>string</Prefix>
        </CommonPrefixes>
        <Contents>
            <Key>string</Key>
            <LastModified>date</LastModified>
            <ETag>string</ETag>
            <Size>integer</Size>
            <Owner>
                <ID>string</ID>
                <DisplayName>string</DisplayName>
            </Owner>
            <StorageClass>Enum</StorageClass>
            <StorageTier>Enum</StorageTier>
            <RestoreStatus>Enum</RestoreStatus>
        </Contents>
        <Contents>
            <Key>string</Key>
            <LastModified>date</LastModified>
            <ETag>string</ETag>
            <Size>integer</Size>
            <Owner>
                <ID>string</ID>
                <DisplayName>string</DisplayName>
            </Owner>
            <StorageClass>Enum</StorageClass>
            <StorageTier>Enum</StorageTier>
            <RestoreStatus>Enum</RestoreStatus>
        </Contents>
</ListBucketResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
ListBucketResult	None	Stores the result of the `GET Bucket` request.	Container

Content of `ListBucketResult` :

Node Name (Keyword)	Parent Node	Description	Type
Name	ListBucketResult	Bucket name, formatted as `<BucketName-APPID>` , such as `examplebucket-1250000000`	string

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EncodingType	ListBucketResult	Encoding type, which corresponds to the `encoding-type` parameter in the request. This node will be returned only when the `encoding-type` parameter is specified in the request.	string
Prefix	ListBucketResult	Matching prefix to filter object keys. This node corresponds to the `Prefix` parameter in the request.	string
Marker	ListBucketResult	Marks the object key to start with. Object keys after the marker will be returned in UTF-8 lexicographical order. This node corresponds to the `marker` parameter in the request.	string
MaxKeys	ListBucketResult	Maximum number of keys returned in a single response. This node corresponds to the `max-keys` parameter in the request.	integer
Delimiter	ListBucketResult	Delimiter, which corresponds to the `delimiter` parameter in the request and will be returned only if the `delimiter` parameter is specified in the request.	string
IsTruncated	ListBucketResult	Indicates whether the returned list is truncated. Valid values: `true` , `false`	boolean
NextMarker	ListBucketResult	This node will be returned only if the returned list is truncated (i.e., the value of `IsTruncated` is `true`). The value of this node is the last object key in the current response. If you need to request subsequent entries, the value can be passed in as the value of the `marker` parameter in the next request.	string
CommonPrefixes	ListBucketResult	The identical paths between the prefix (or, if no prefix is specified, the beginning of the string) and the first delimiter are grouped and defined as a common prefix. This node will be returned only if the `delimiter` parameter is specified in the request	Container
Contents	ListBucketResult	Object entries	Container

Content of `CommonPrefixes` :

Node Name (Keyword)	Parent Node	Description	Type
Prefix	ListBucketResult.CommonPrefixes	A single common prefix	string

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Content of `Contents` :

Node Name (Keyword)	Parent Node	Description	Type
Key	ListBucketResult.Contents	Object key	string
LastModified	ListBucketResult.Contents	Time the object was last modified, in ISO 8601 format (for example, `2019-05-24T10:56:40Z`)	date
ETag	ListBucketResult.Contents	Entity tag of the object. It indicates the content of the object when it is created and can be used to verify whether the object content is changed. Example: "8e0b617ca298a564c3331da28dcb50df" The value of `ETag` is not necessarily the MD5 checksum of the object. The value will be different if the uploaded object is encrypted.	string
Size	ListBucketResult.Contents	Object size, in bytes	integer
Owner	ListBucketResult.Contents	Information of the object owner	Container
StorageClass	ListBucketResult.Contents	Object storage class, such as `STANDARD_IA` or `ARCHIVE` . For enumerated values, please see Storage Class Overview	Enum
StorageTier	ListBucketResult.Contents	Access tier (for INTELLIGENT TIERING) the object is currently stored in. Enumerated values: `FREQUENT` , `INFREQUENT` . This node is returned only when `StorageClass` is set to `INTELLIGENT_TIERING` .	Enum
RestoreStatus	ListBucketResult.Contents	When the object storage class is `ARCHIVE` or `DEEP ARCHIVE` , this field indicates the restoration status of the object. Valid values: `ONGOING` , `DONE` , `FAILED` . If no restoration request is initiated to the object, this field is null. After a restoration request is initiated, the value is `ONGOING` , `DONE` , and `FAILED` respectively if the restoration is in progress, completed, or failed. This node is returned only when `StorageClass` is `ARCHIVE` or `DEEP_ARCHIVE` .	Enum

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Content of `Contents.Owner` :

Node Name (Keyword)	Parent Node	Description	Type
ID	ListBucketResult.Contents.Owner	`APPID` of the object owner	string
DisplayName	ListBucketResult.Contents.Owner	Name of the object owner	string

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example 1: simple use case

Request

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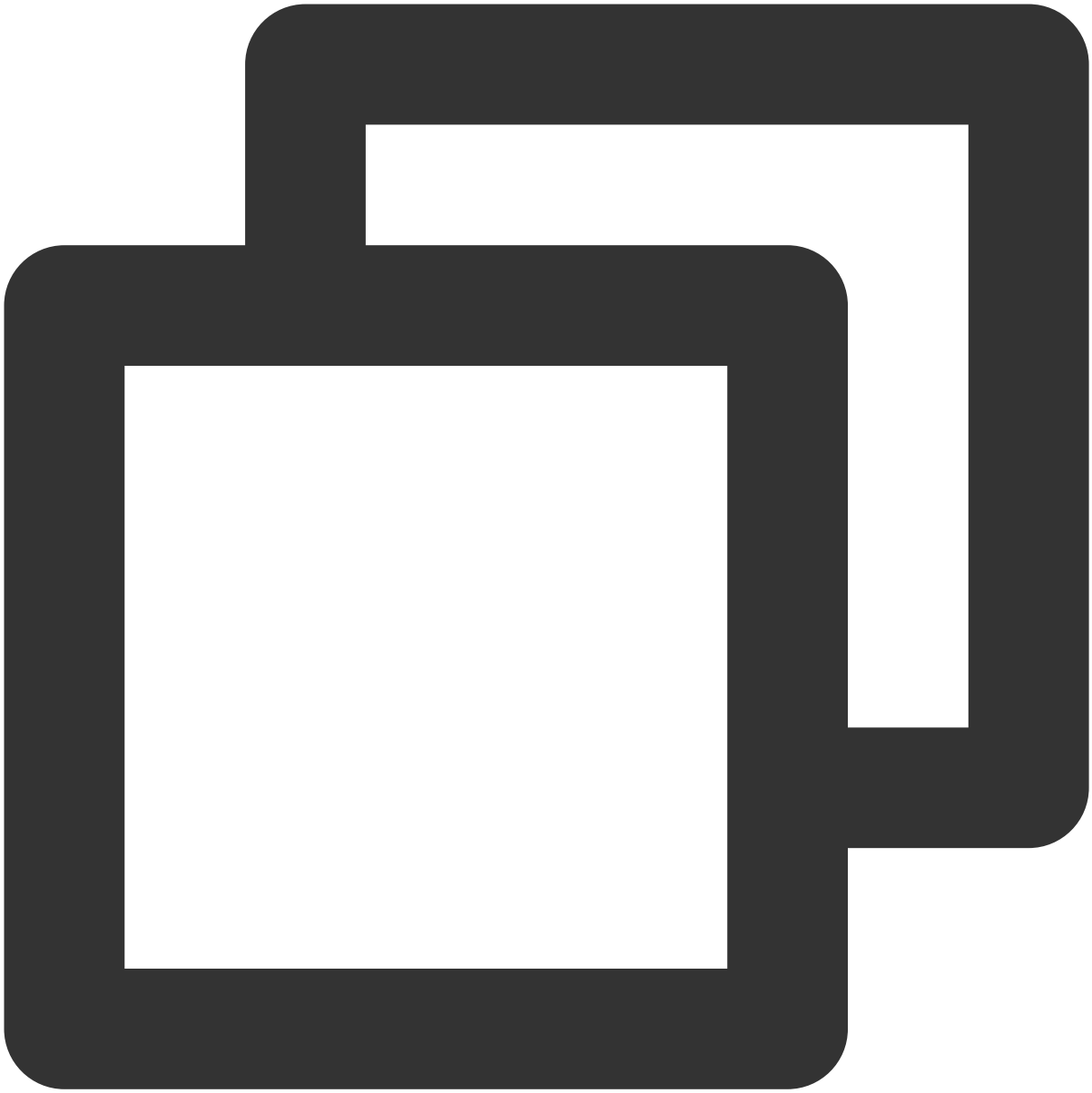

```
GET / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 03:37:41 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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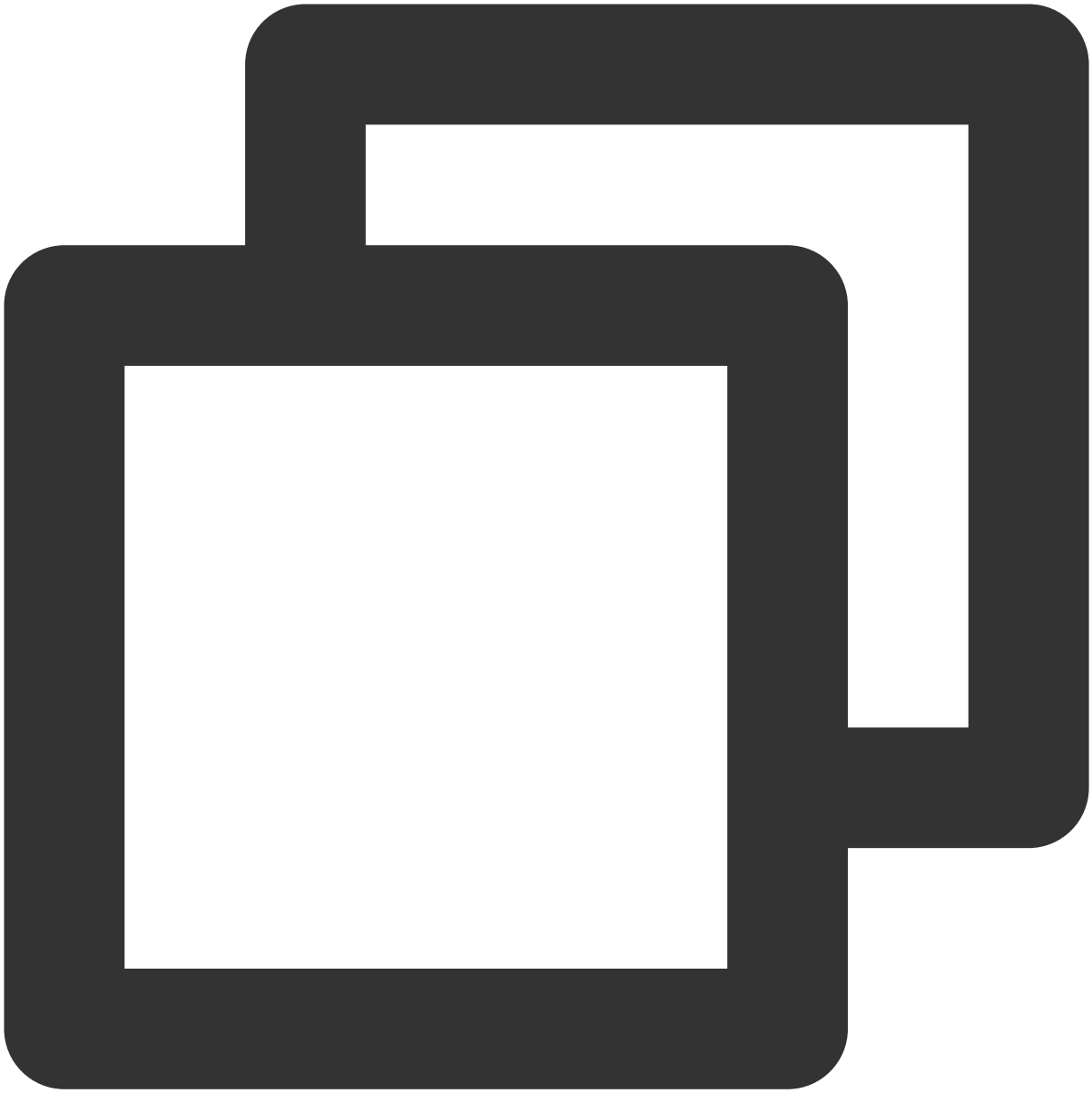

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 2931
Connection: close
Date: Thu, 10 Dec 2020 03:37:41 GMT
Server: tencent-cos
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWZkMTk4MDVfNjViODJhMDlfNDZkYl8xNzU0****

<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
```

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```
        <Name>examplebucket-1250000000</Name>
        <Prefix/>
        <Marker/>
        <MaxKeys>1000</MaxKeys>
        <IsTruncated>false</IsTruncated>
        <Contents>
            <Key>example-folder-1/example-object-1.jpg</Key>
            <LastModified>2020-12-10T03:37:30.000Z</LastModified>
            <ETag>&amp;quot;f173c1199e3d3b53dd91223cae16fb42&amp;quot;</ETag>
            <Size>37</Size>
            <Owner>
                      <ID>1250000000</ID>
                      <DisplayName>1250000000</DisplayName>
            </Owner>
            <StorageClass>STANDARD</StorageClass>
        </Contents>
        <Contents>
            <Key>example-folder-1/example-object-2.jpg</Key>
            <LastModified>2020-12-10T03:37:30.000Z</LastModified>
            <ETag>&amp;quot;c9d28698978bb6fef6c1ed1c439a17d3&amp;quot;</ETag>
            <Size>37</Size>
            <Owner>
                      <ID>1250000000</ID>
                      <DisplayName>1250000000</DisplayName>
            </Owner>
                  <StorageClass>INTELLIGENT_TIERING</StorageClass>
                  <StorageTier>FREQUENT</StorageTier>
        </Contents>
                  ...
        <Contents>
            <Key>example-object-2.jpg</Key>
            <LastModified>2020-12-10T03:37:30.000Z</LastModified>
            <ETag>&amp;quot;51370fc64b79d0d3c7c609635be1c41f&amp;quot;</ETag>
            <Size>20</Size>
            <Owner>
                      <ID>1250000000</ID>
                      <DisplayName>1250000000</DisplayName>
            </Owner>
            <StorageClass>STANDARD_IA</StorageClass>
        </Contents>
        <Contents>
            <Key>example-object-3.jpg</Key>
            <LastModified>2020-12-10T04:37:30.000Z</LastModified>
            <ETag>&amp;quot;51370fc64b79d0d3c7c609635be1c41f&amp;quot;</ETag>
            <Size>20</Size>
            <Owner>
                      <ID>1250000000</ID>
```

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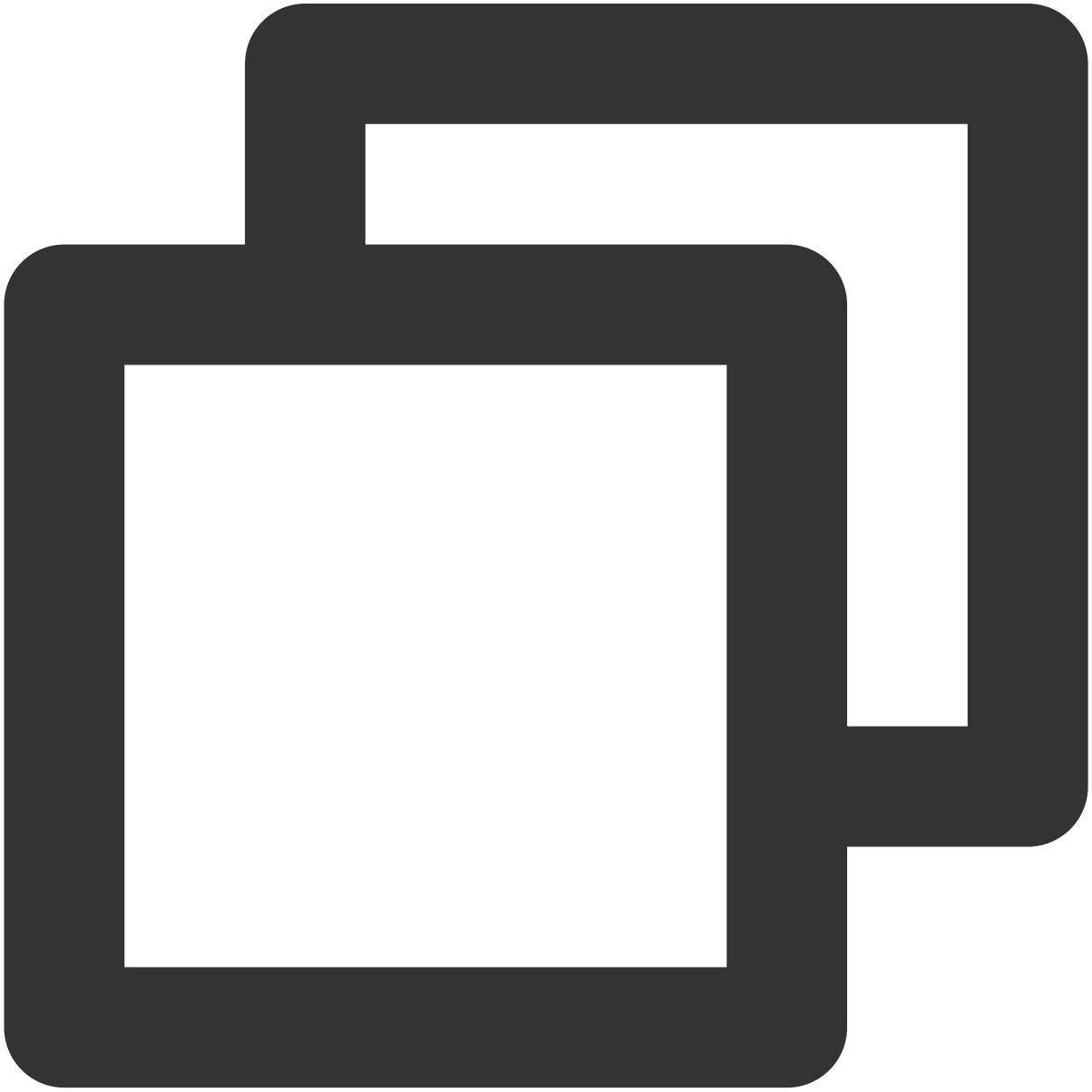
```
                    <DisplayName>1250000000</DisplayName>
            </Owner>
            <StorageClass>ARCHIVE</StorageClass>
            <RestoreStatus>DONE</RestoreStatus>
        </Contents>
</ListBucketResult>
```

Example 2. Specifying the `encoding-type` parameter (object keys are URL-encoded)

Request



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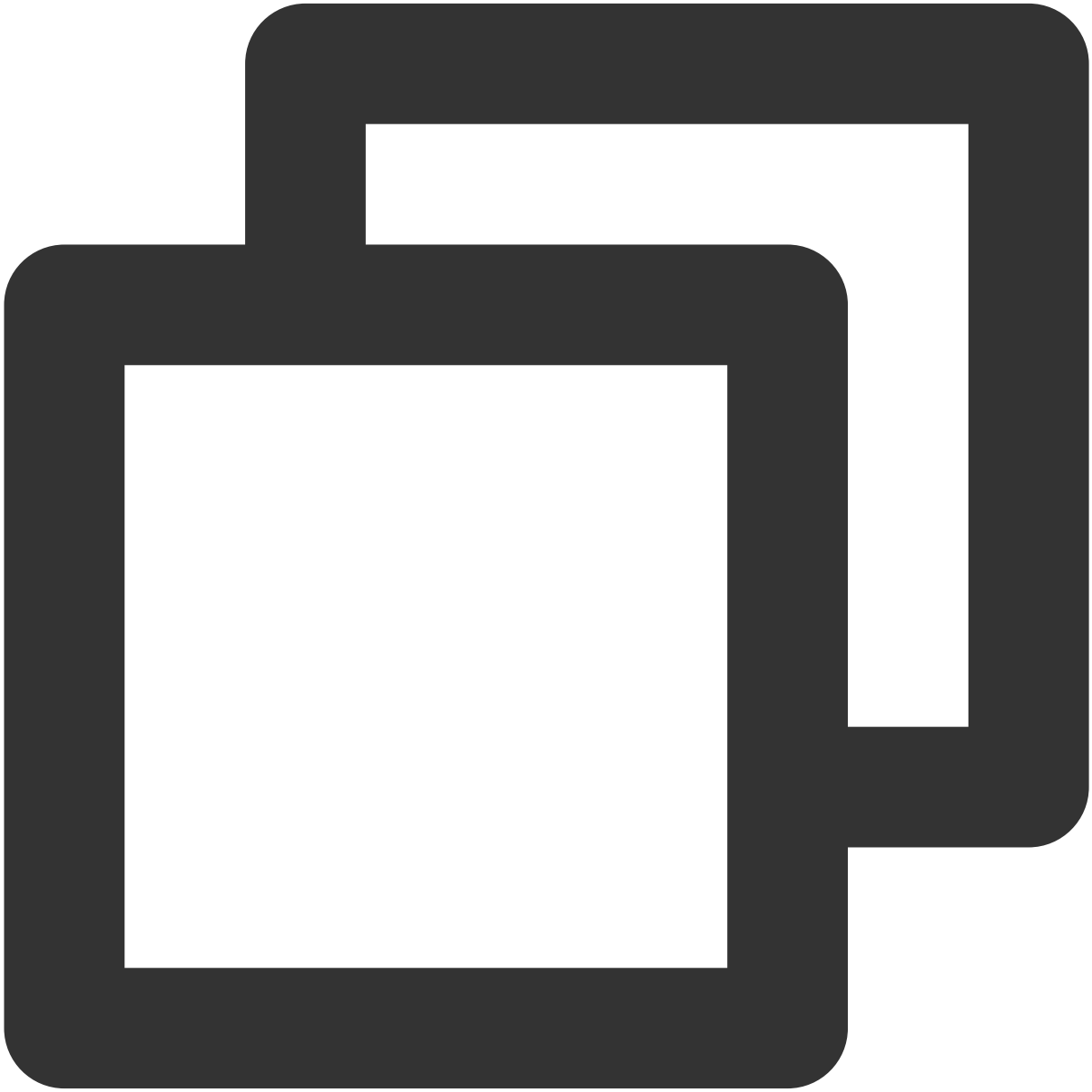
```
GET /?encoding-type=url HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 08 Dec 2020 13:54:16 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 1220
Connection: close
Date: Wed, 09 Dec 2020 15:28:29 GMT
Server: tencent-cos
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWZkMGVkMWRfZjdjNzJhMDlfMjJhYTlfYmJk****

<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
      <Name>examplebucket-1250000000</Name>
      <EncodingType>url</EncodingType>
      <Prefix/>
      <Marker/>
      <MaxKeys>1000</MaxKeys>
      <IsTruncated>false</IsTruncated>
      <Contents>
                <Key>Tencent%20Cloud.jpg</Key>
                <LastModified>2020-12-09T15:28:19.000Z</LastModified>
                <ETag>&quot;ee8de918d05640145b18f70f4c3aa602&quot;</ETag>
                <Size>16</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
      </Contents>
      <Contents>
                <Key>%E7%85%A7%E7%89%87/2020%E5%B9%B4/IMG0001.jpg</Key>
                <LastModified>2020-12-09T15:28:19.000Z</LastModified>
                <ETag>&quot;ee8de918d05640145b18f70f4c3aa602&quot;</ETag>
                <Size>16</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
      </Contents>
      <Contents>
                <Key>%E8%85%BE%E8%AE%AF%E4%BA%91.jpg</Key>
                <LastModified>2020-12-09T15:28:19.000Z</LastModified>
                <ETag>&quot;ee8de918d05640145b18f70f4c3aa602&quot;</ETag>
                <Size>16</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
```

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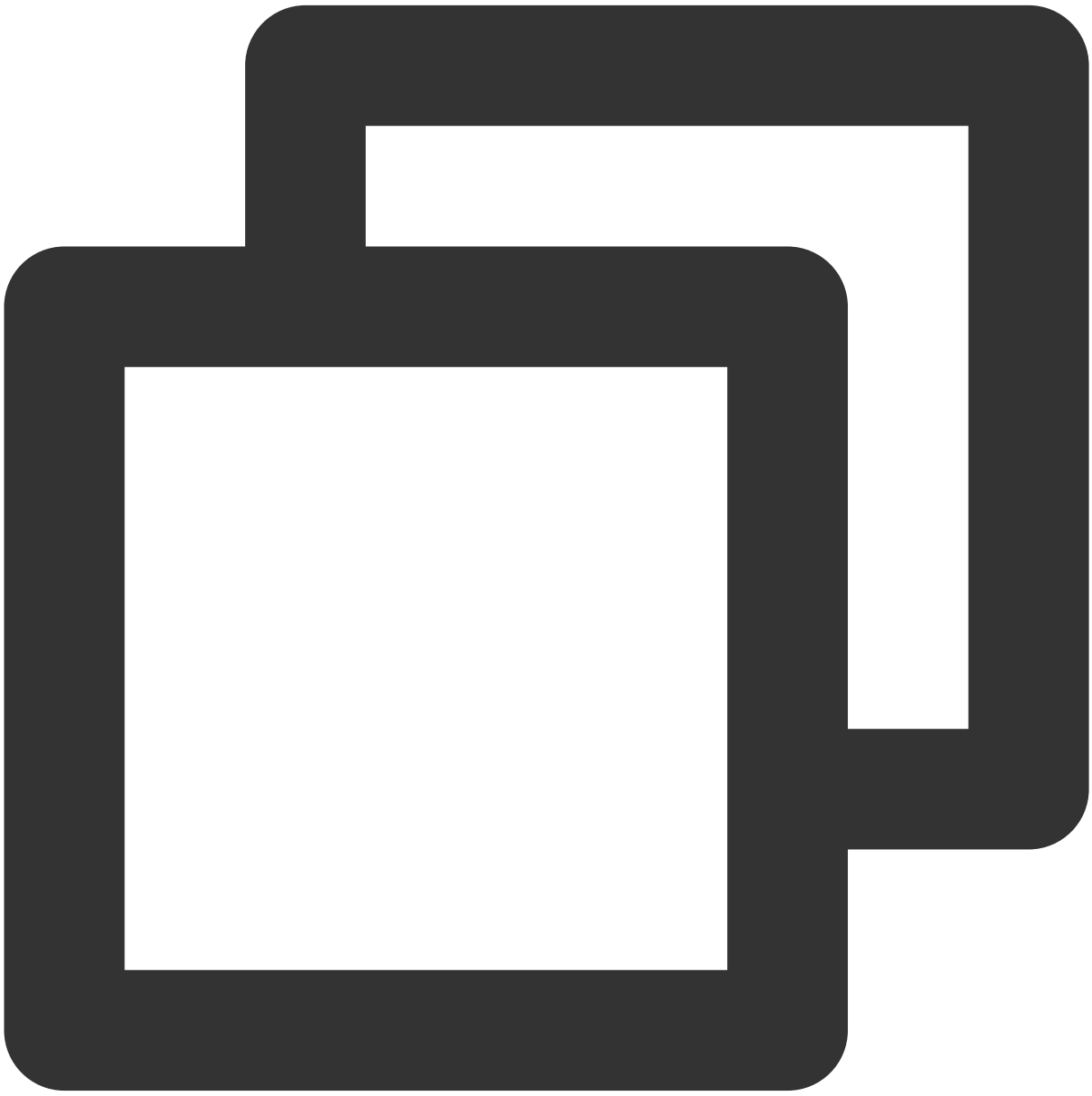
```
            </Contents>
</ListBucketResult>
```

Example 3. Specifying the `delimiter` parameter (listing objects and subdirectories in the root directory)

Request



```
GET /?delimiter=%2F HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 03:37:41 GMT
```

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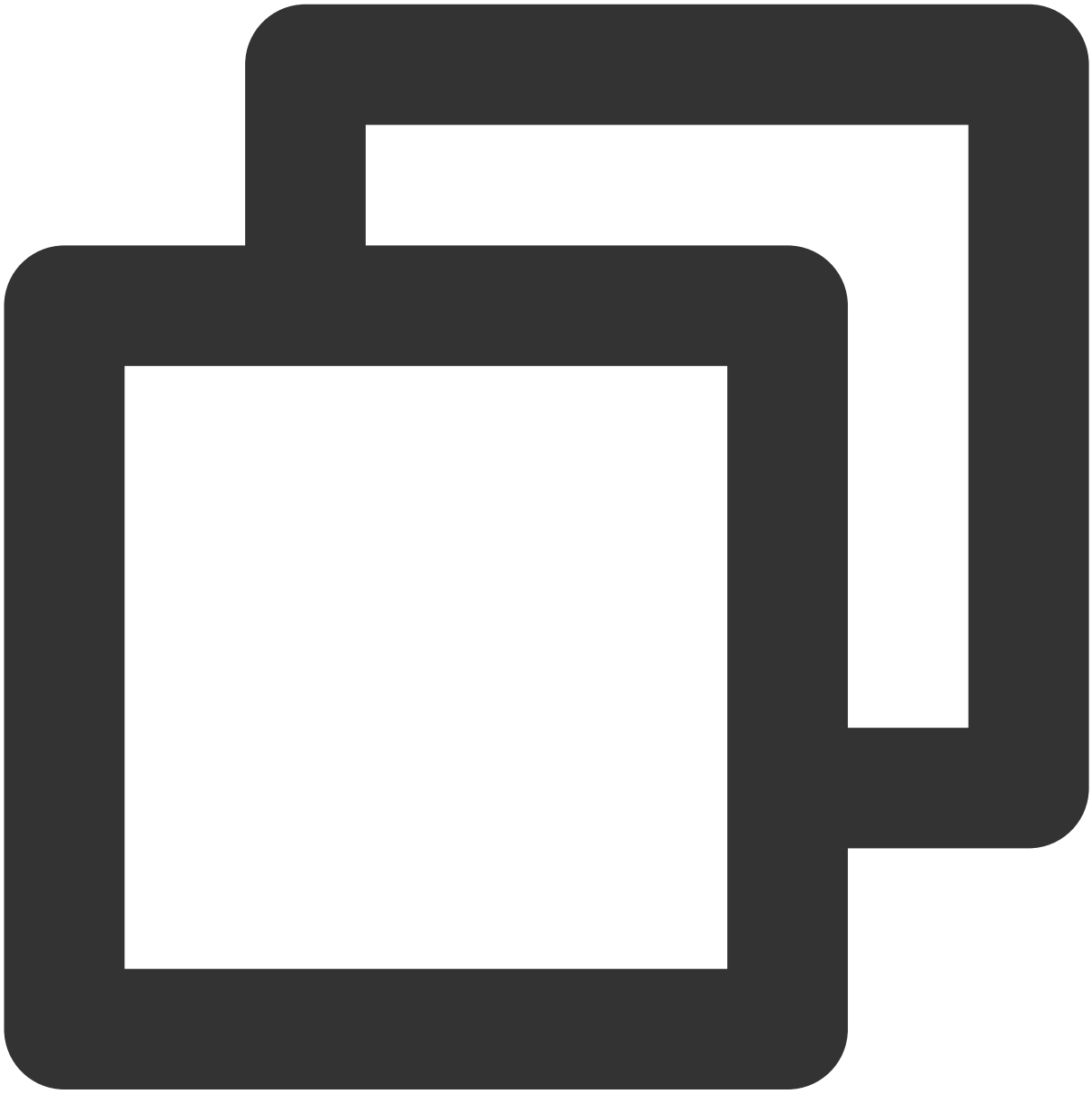
```
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1011
Connection: close
Date: Thu, 10 Dec 2020 03:37:41 GMT
Server: tencent-cos
```

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```
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWZkMTk4MDVfNjRiMDJhMDlfOTZjZV8xOTgw****

<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <Marker/>
            <MaxKeys>1000</MaxKeys>
            <Delimiter>/</Delimiter>
            <IsTruncated>false</IsTruncated>
            <CommonPrefixes>
                <Prefix>example-folder-1/</Prefix>
            </CommonPrefixes>
            <CommonPrefixes>
                <Prefix>example-folder-2/</Prefix>
            </CommonPrefixes>
            <Contents>
                <Key>example-object-1.jpg</Key>
                <LastModified>2020-12-10T03:37:30.000Z</LastModified>
                <ETag>&amp;quot;0f0cd12c48979d1bf3f95255a36cb861&amp;quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
            <Contents>
                <Key>example-object-2.jpg</Key>
                <LastModified>2020-12-10T03:37:30.000Z</LastModified>
                <ETag>&amp;quot;51370fc64b79d0d3c7c609635be1c41f&amp;quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD_IA</StorageClass>
            </Contents>
</ListBucketResult>
```

Example 4. Specifying the `prefix` and `delimiter` parameters (listing objects and subdirectories in a specified subdirectory)

Request

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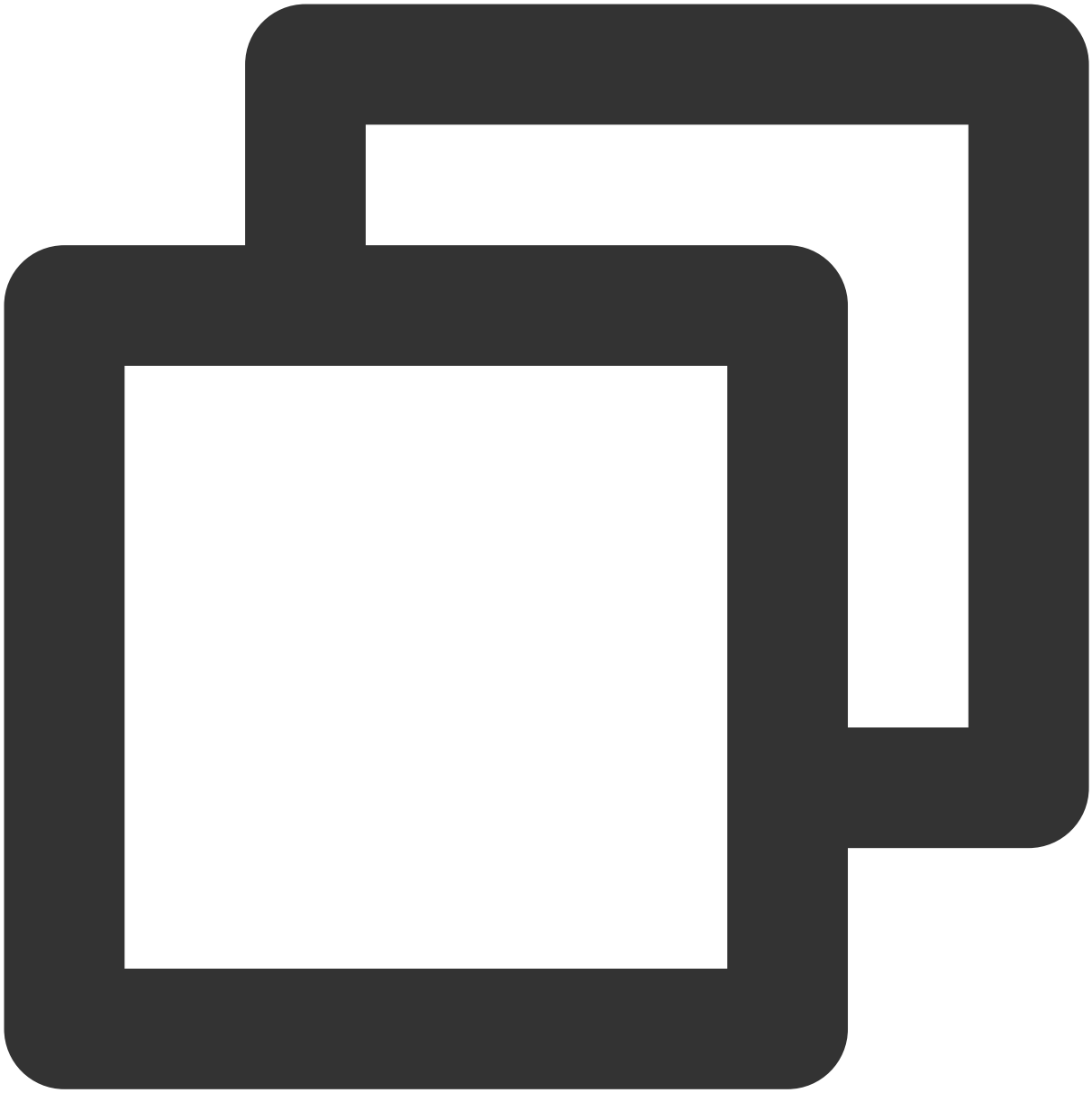

```
GET /?prefix=example-folder-1%2F&delimiter=%2F HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 03:37:41 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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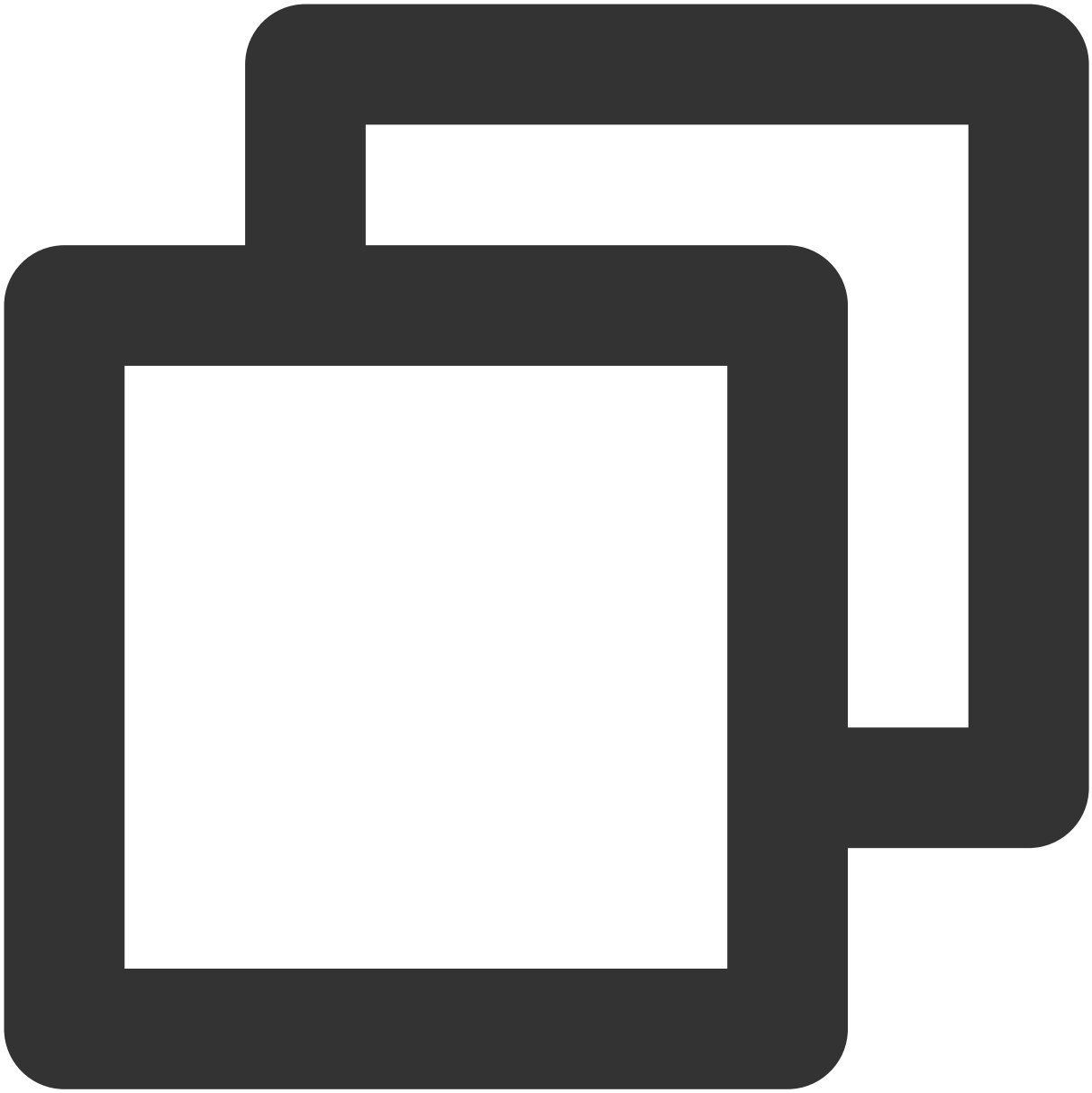

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1142
Connection: close
Date: Thu, 10 Dec 2020 03:37:41 GMT
Server: tencent-cos
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWZkMTk4MDVfZGZjNzJhMDlfMzJiMjRfMTY0****

<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix>example-folder-1/</Prefix>
            <Marker/>
            <MaxKeys>1000</MaxKeys>
            <Delimiter>/</Delimiter>
            <IsTruncated>false</IsTruncated>
            <CommonPrefixes>
                <Prefix>example-folder-1/sub-folder-1/</Prefix>
            </CommonPrefixes>
            <CommonPrefixes>
                <Prefix>example-folder-1/sub-folder-2/</Prefix>
            </CommonPrefixes>
            <Contents>
                <Key>example-folder-1/example-object-1.jpg</Key>
                <LastModified>2020-12-10T03:37:30.000Z</LastModified>
                <ETag>&quot;f173c1199e3d3b53dd91223cae16fb42&quot;</ETag>
                <Size>37</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
            <Contents>
                <Key>example-folder-1/example-object-2.jpg</Key>
                <LastModified>2020-12-10T03:37:30.000Z</LastModified>
                <ETag>&quot;c9d28698978bb6fef6c1ed1c439a17d3&quot;</ETag>
                <Size>37</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>INTELLIGENT_TIERING</StorageClass>
                <StorageTier>FREQUENT</StorageTier>
            </Contents>
</ListBucketResult>
```

Example 5. Obtaining the first page of keys when there are more than one page (this example specifies the value of `max-keys`. If not specified, the value `1000` is used by default)

Request

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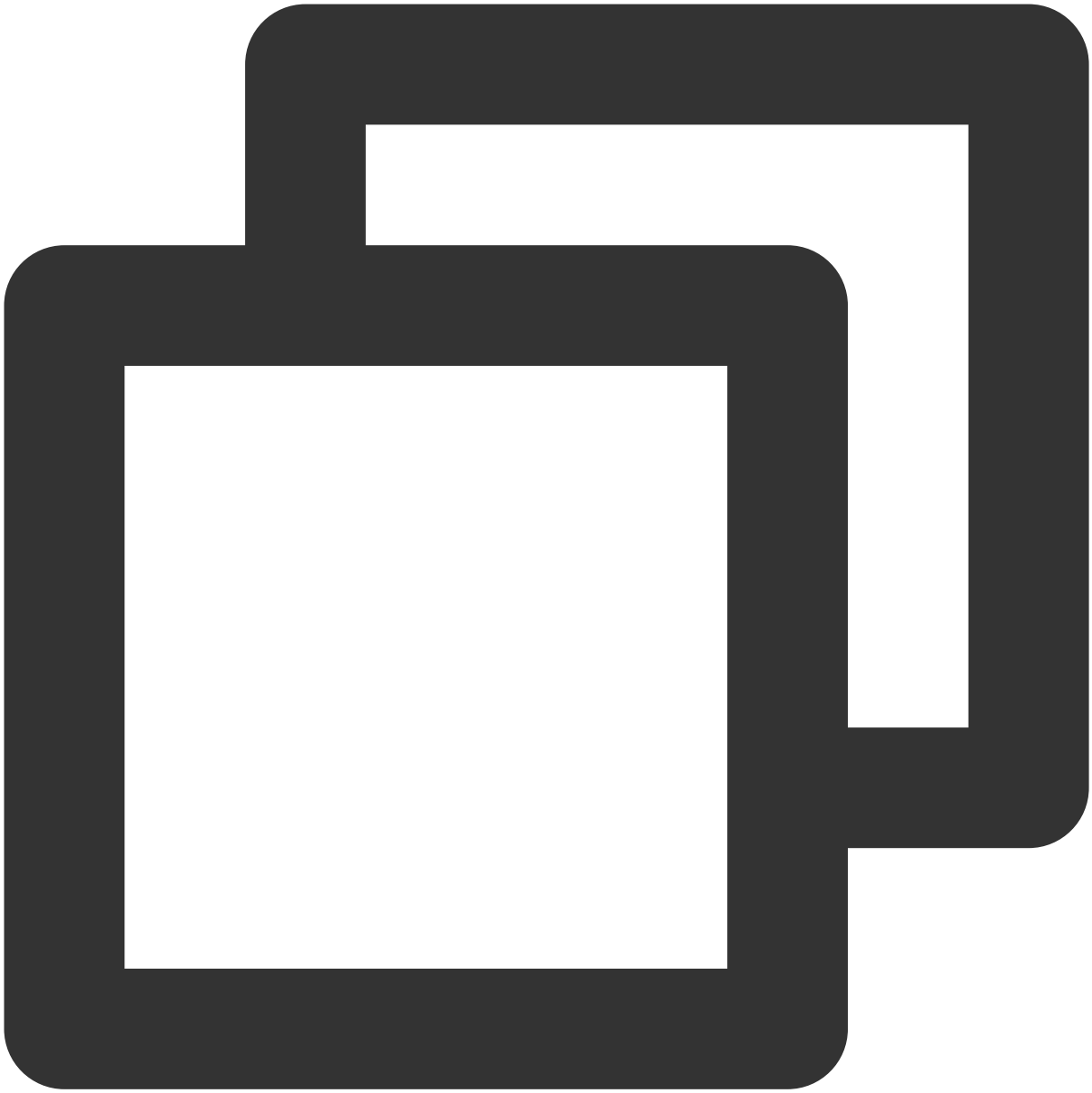

```
GET /?max-keys=3 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 08 Dec 2020 12:05:10 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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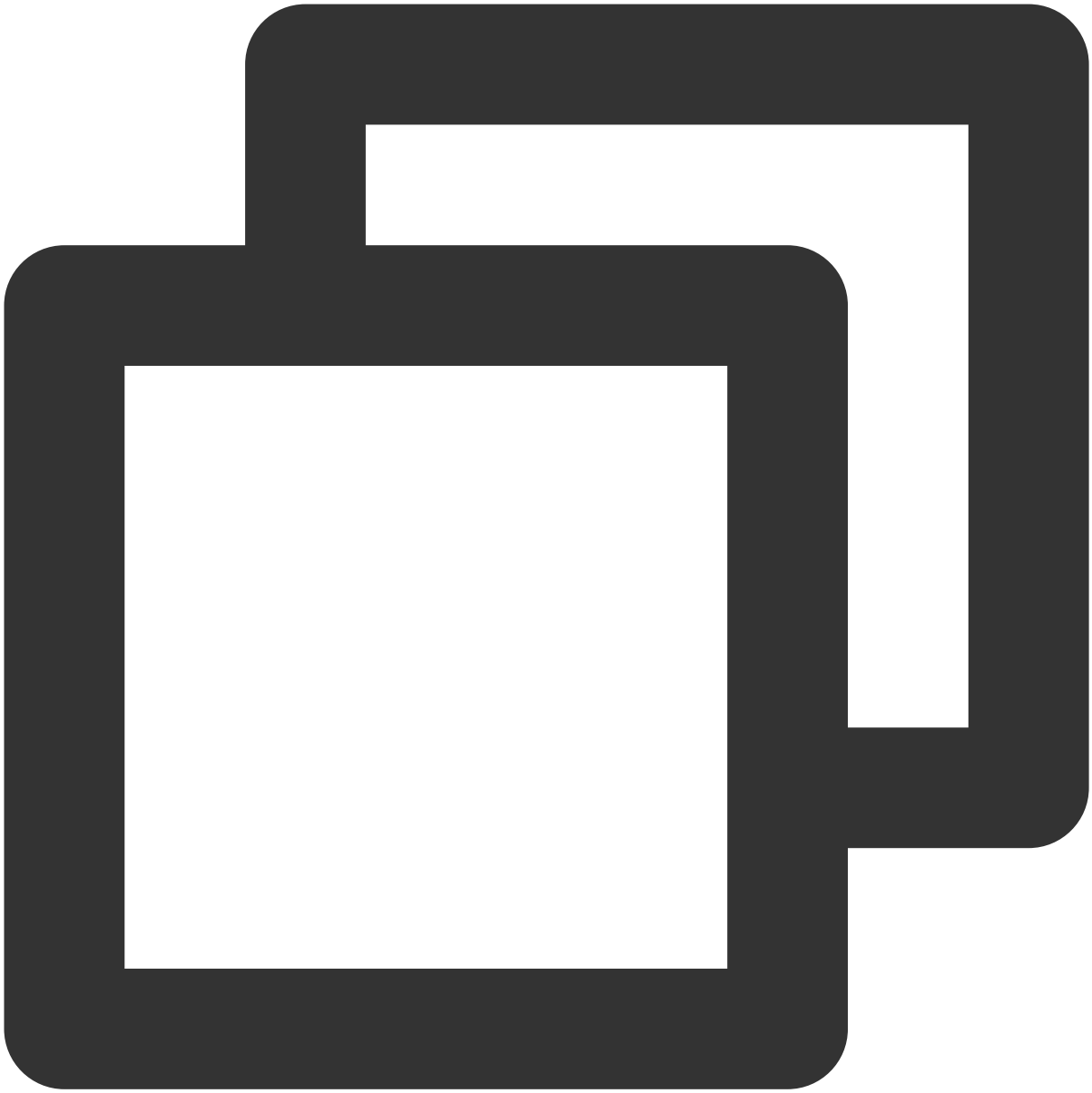

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1195
Connection: close
Date: Tue, 08 Dec 2020 12:05:10 GMT
Server: tencent-cos
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWZjZjZiZjZfZGRjODJhMDlfMWFjZDVfMTlmZTY5****

<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <Marker/>
            <MaxKeys>3</MaxKeys>
            <IsTruncated>true</IsTruncated>
            <NextMarker>example-object-3.jpg</NextMarker>
            <Contents>
                <Key>example-object-1.jpg</Key>
                <LastModified>2020-12-08T12:05:00.000Z</LastModified>
                <ETag>&quot;0f0cd12c48979d1bf3f95255a36cb861&quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
            <Contents>
                <Key>example-object-2.jpg</Key>
                <LastModified>2020-12-08T12:05:00.000Z</LastModified>
                <ETag>&quot;51370fc64b79d0d3c7c609635be1c41f&quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
            <Contents>
                <Key>example-object-3.jpg</Key>
                <LastModified>2020-12-08T12:05:00.000Z</LastModified>
                <ETag>&quot;b2f1d893c5fde000ee8ea6eca18ed81f&quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
</ListBucketResult>
```

Example 6. Obtaining the subsequent pages (a continuity of example 5)

Request

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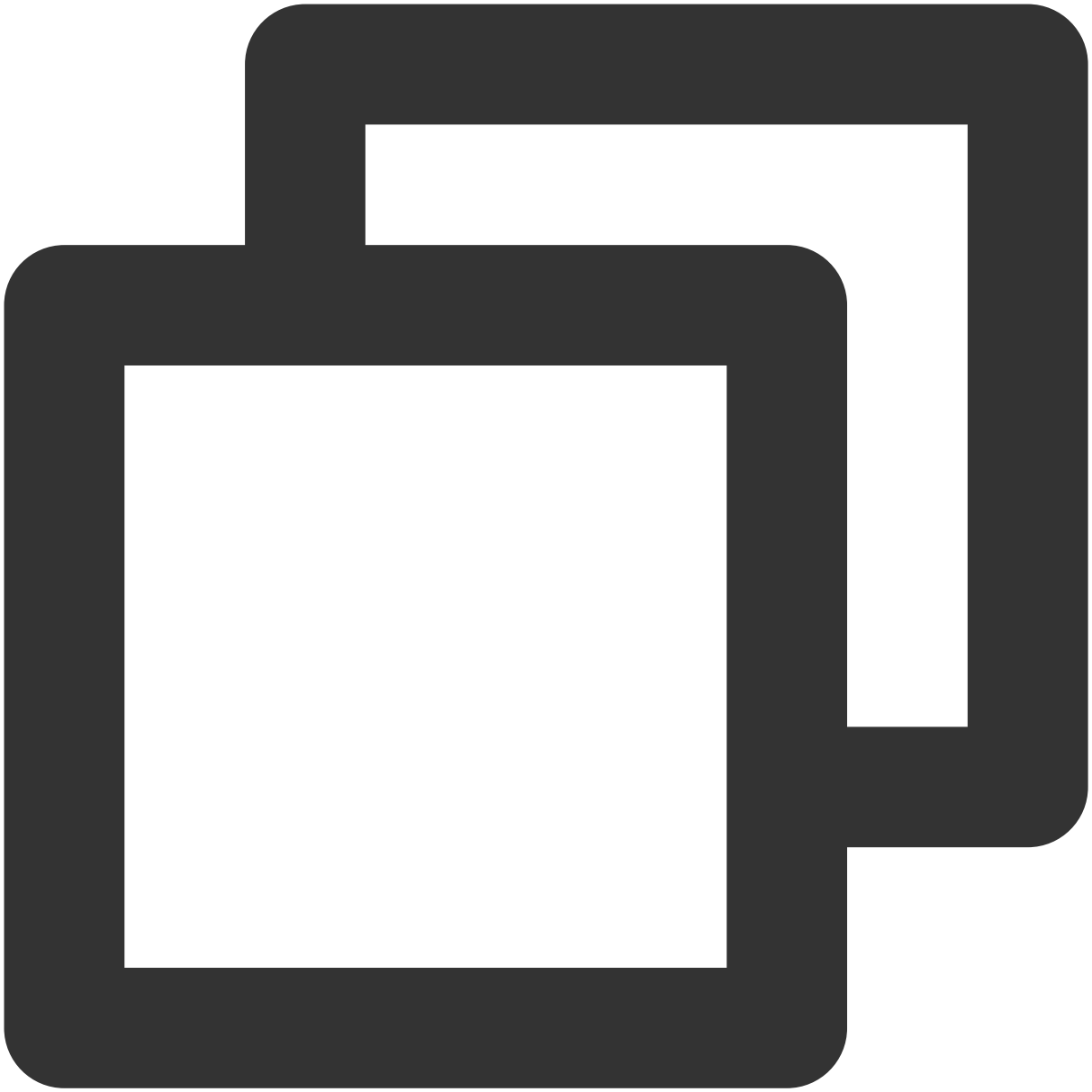

```
GET /?max-keys=3&marker=example-object-3.jpg HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 08 Dec 2020 12:05:11 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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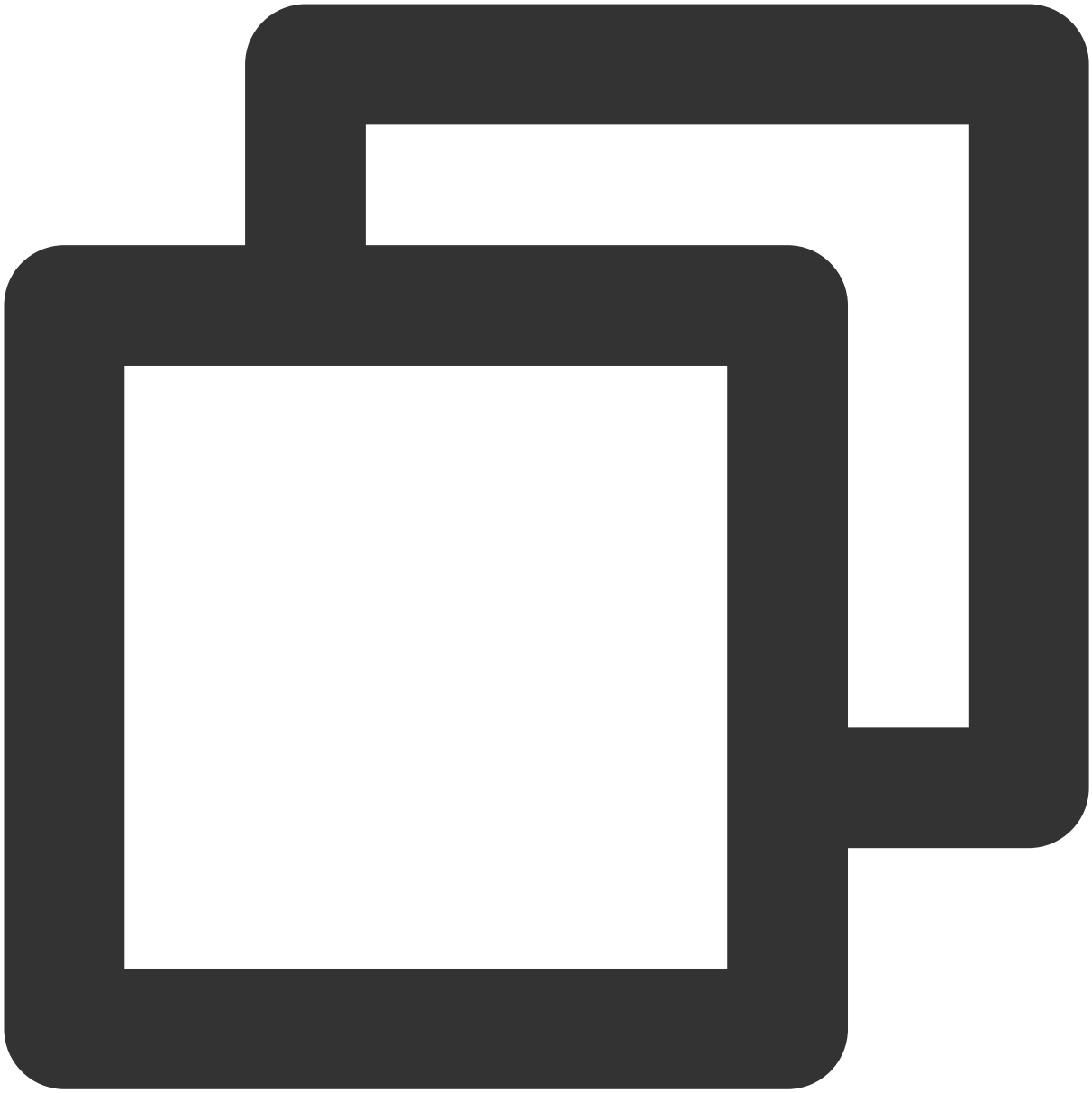

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 859
Connection: close
Date: Tue, 08 Dec 2020 12:05:11 GMT
Server: tencent-cos
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWZjZjZiZjdfMjRhZjJhMDlfMjc2NV8xYmE2****

<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <Marker>example-object-3.jpg</Marker>
            <MaxKeys>3</MaxKeys>
            <IsTruncated>false</IsTruncated>
            <Contents>
                <Key>example-object-4.jpg</Key>
                <LastModified>2020-12-08T12:05:00.000Z</LastModified>
                <ETag>&amp;quot;e9ec8bcb980d2e4d8526c346eb3b2585&amp;quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
            <Contents>
                <Key>example-object-5.jpg</Key>
                <LastModified>2020-12-08T12:05:00.000Z</LastModified>
                <ETag>&amp;quot;201669a14bdf051d8a9d6f9828d3f4c4&amp;quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
</ListBucketResult>
```

Example 7. Obtaining the first page of keys when there are more than one page (with `delimiter` specified and the sum of `CommonPrefixes` and `Contents` not exceeding the value of `max-keys`)

Request

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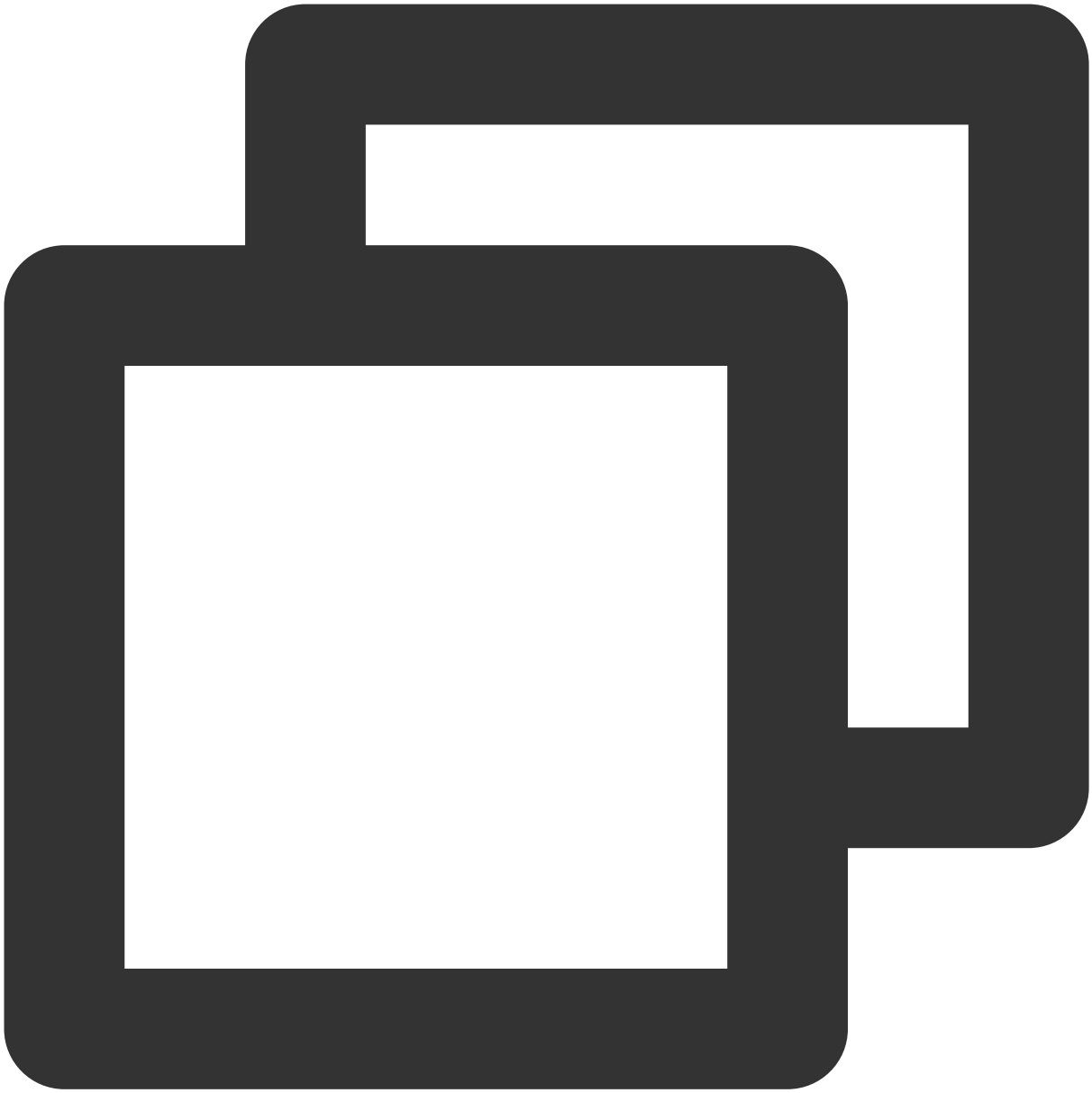

```
GET /?delimiter=%2F&max-keys=3 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 09 Dec 2020 03:22:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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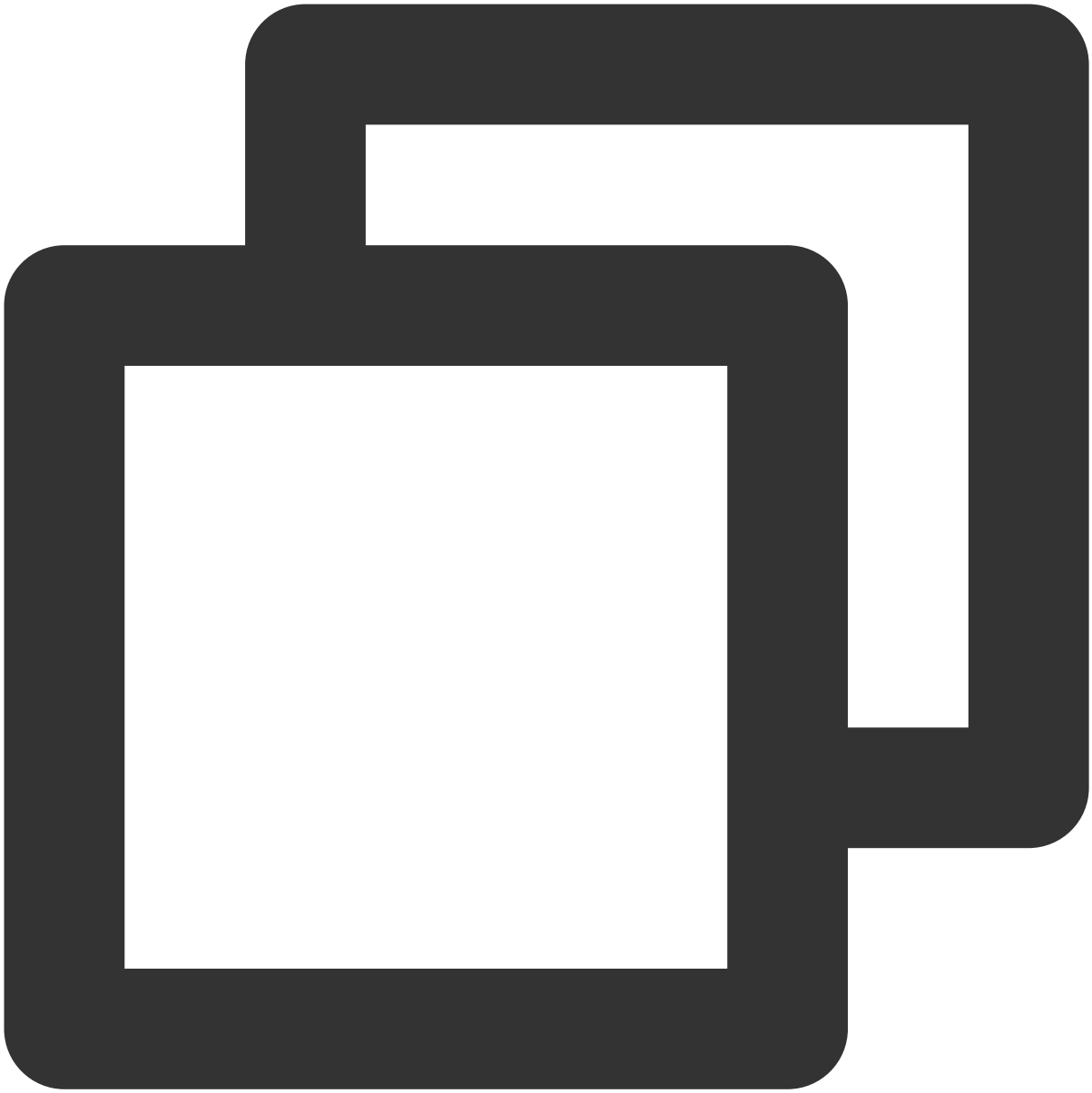

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 486
Connection: close
Date: Wed, 09 Dec 2020 03:22:38 GMT
Server: tencent-cos
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWZkMDQyZmVfYTJjMjJhMDlfYmQwOF8xYjkw****

<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <Marker/>
            <MaxKeys>3</MaxKeys>
            <Delimiter>/</Delimiter>
            <IsTruncated>true</IsTruncated>
            <NextMarker>example-folder-3/</NextMarker>
            <CommonPrefixes>
                <Prefix>example-folder-1/</Prefix>
            </CommonPrefixes>
            <CommonPrefixes>
                <Prefix>example-folder-2/</Prefix>
            </CommonPrefixes>
            <CommonPrefixes>
                <Prefix>example-folder-3/</Prefix>
            </CommonPrefixes>
</ListBucketResult>
```

Example 8. Obtaining subsequent pages with `delimiter` specified (a continuity of example 7)

Request

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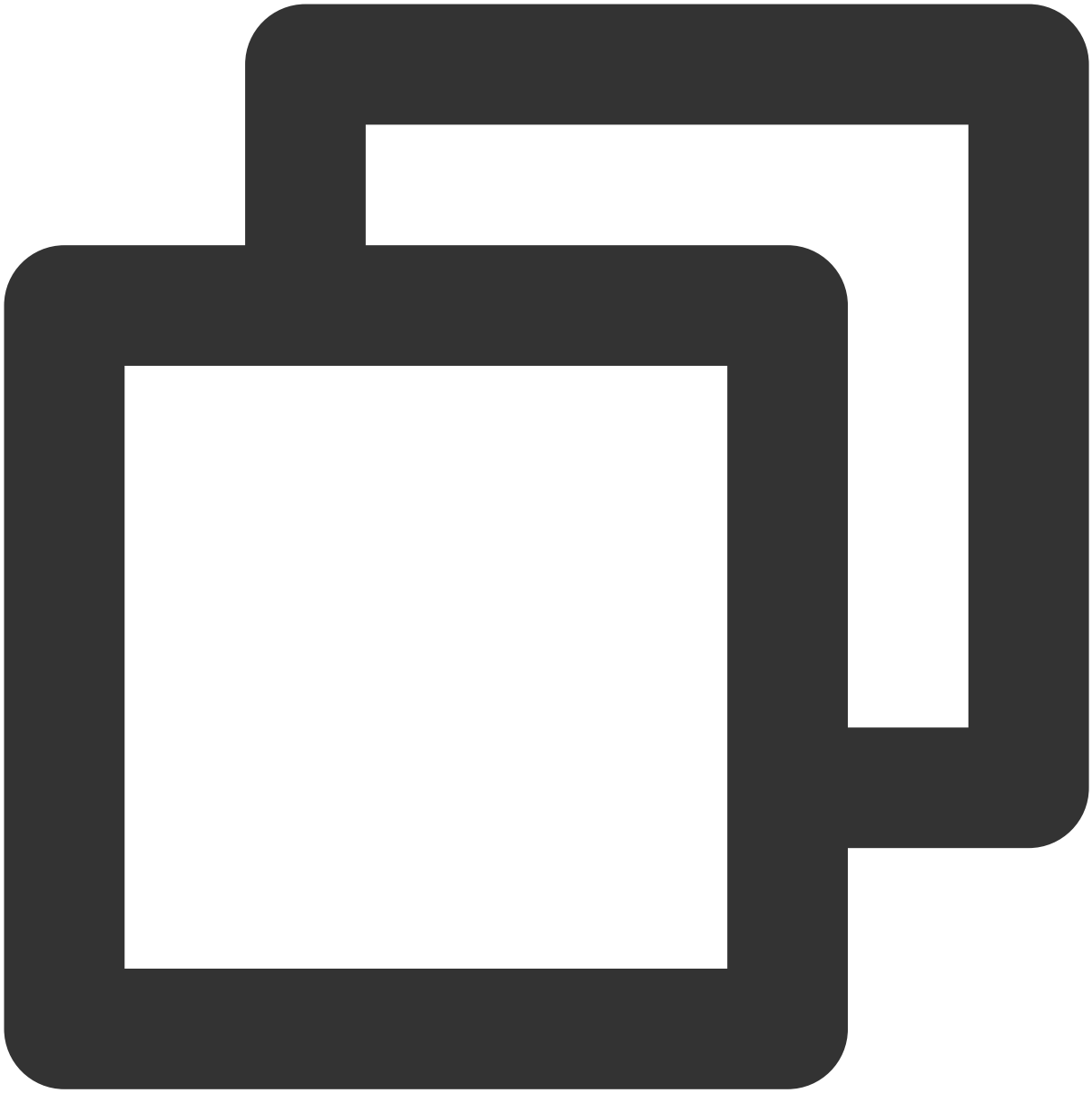

```
GET /?delimiter=%2F&max-keys=3&marker=example-folder-3%2F HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 09 Dec 2020 03:22:39 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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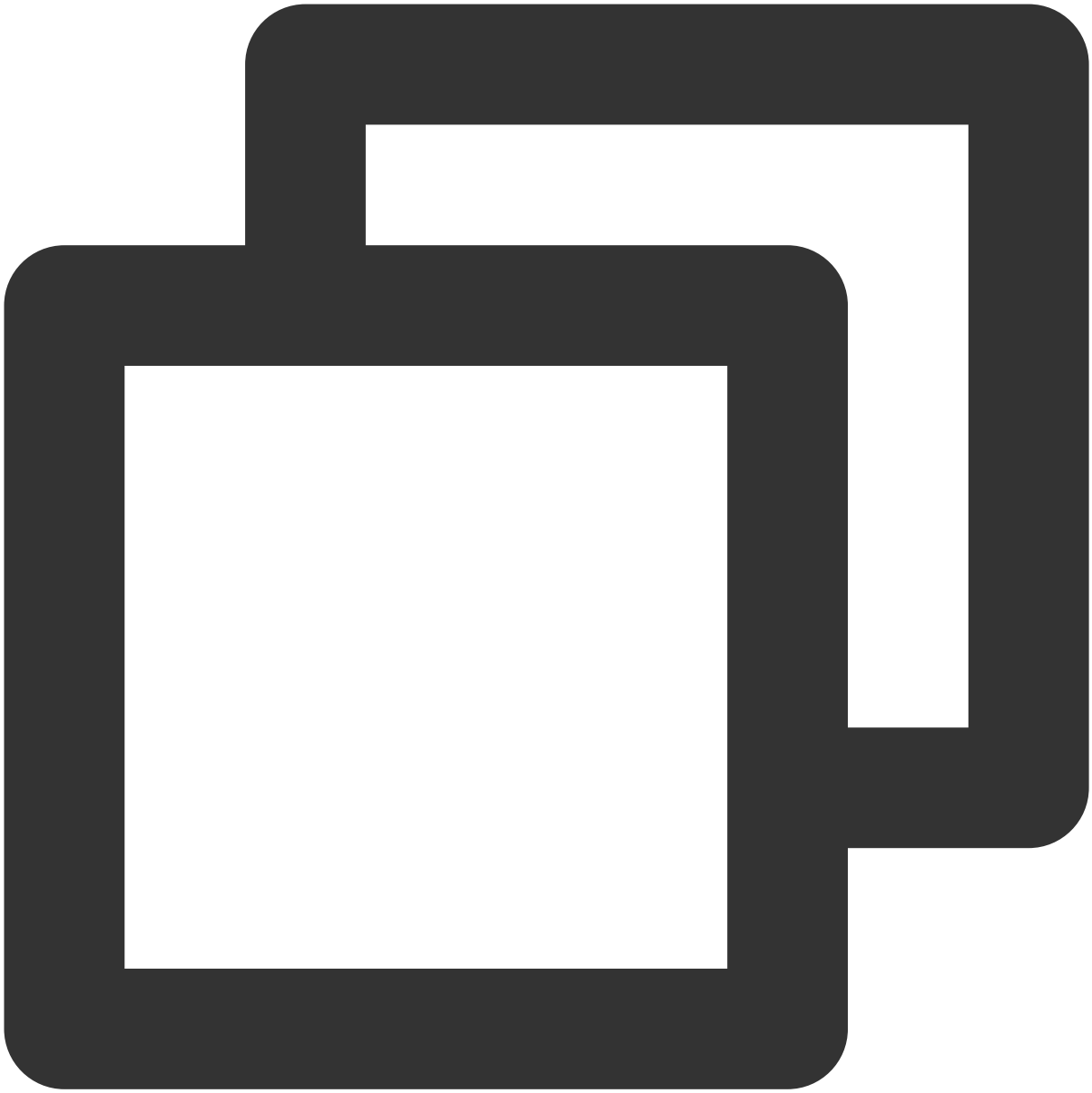

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 956
Connection: close
Date: Wed, 09 Dec 2020 03:22:39 GMT
Server: tencent-cos
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWZkMDQyZmZfZmNhODBiMDlfZmM4N19jYmQz****

<?xml version='1.0' encoding='utf-8' ?>
<ListBucketResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <Marker>example-folder-3/</Marker>
            <MaxKeys>3</MaxKeys>
            <Delimiter>/</Delimiter>
            <IsTruncated>false</IsTruncated>
            <CommonPrefixes>
                <Prefix>example-folder-4/</Prefix>
            </CommonPrefixes>
            <Contents>
                <Key>example-object-1.jpg</Key>
                <LastModified>2020-12-09T03:22:28.000Z</LastModified>
                <ETag>&quot;0f0cd12c48979d1bf3f95255a36cb861&quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
            <Contents>
                <Key>example-object-2.jpg</Key>
                <LastModified>2020-12-09T03:22:28.000Z</LastModified>
                <ETag>&quot;51370fc64b79d0d3c7c609635be1c41f&quot;</ETag>
                <Size>20</Size>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
                <StorageClass>STANDARD</StorageClass>
            </Contents>
</ListBucketResult>
```

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HEAD Bucket

Last updated：2024-03-28 18:08:33

Feature Description

This API (`HEAD Bucket`) is used to verify whether a bucket exists and whether you have permission to access it.

If the bucket exists and you have permission to read it, HTTP status code 200 will be returned.

If you do not have permission to read the bucket, HTTP status code 403 will be returned.

If the bucket does not exist, HTTP status code 404 will be returned.

Request

Sample request

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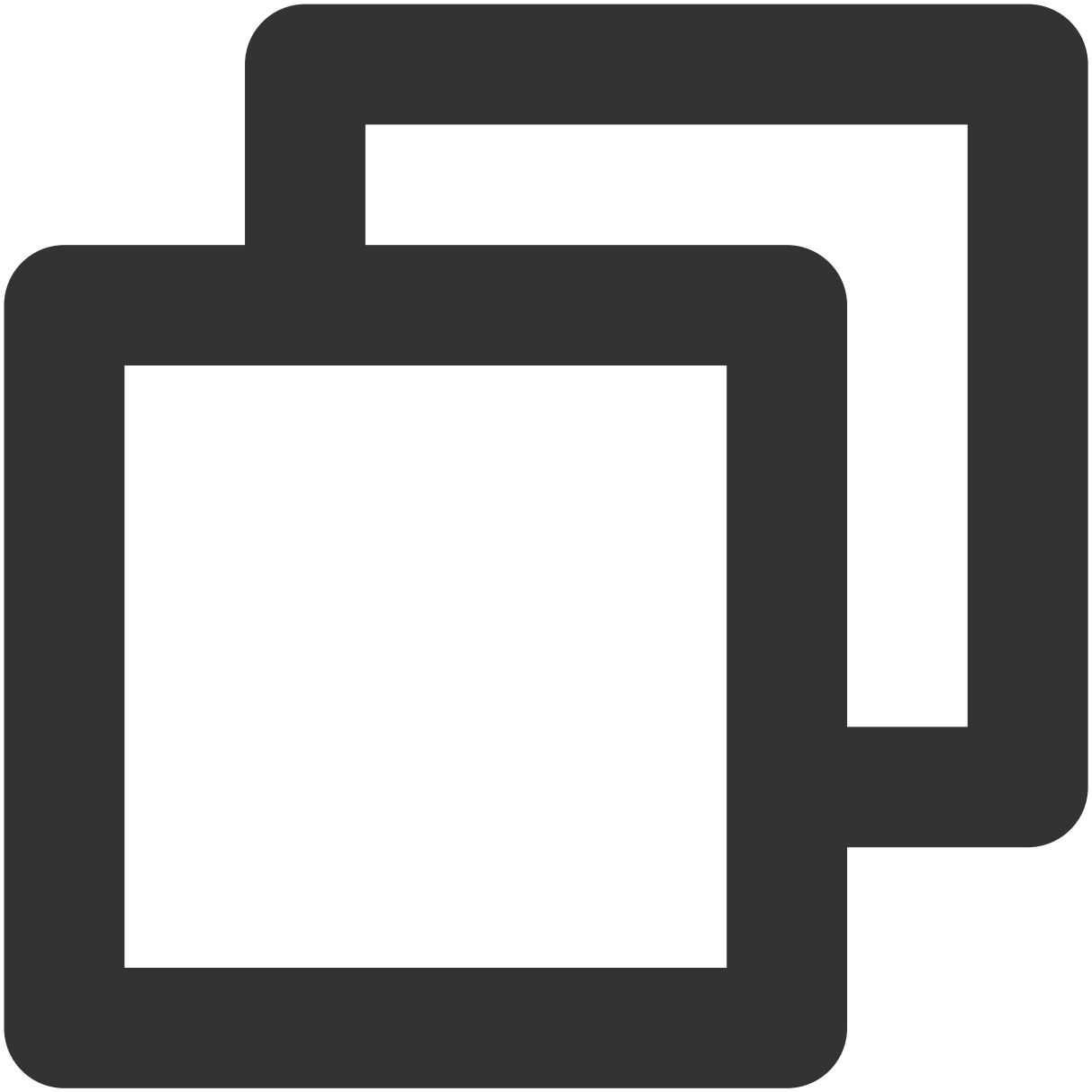

```
HEAD / HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host: <BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the bucket name followed by the `APPID` , such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

In addition to common response headers, this API also returns the following response headers. For more information about common response headers, see Common Response Headers.

Name	Description	Type
x-cos-bucket-az-type	AZ type of the bucket. This header is returned only for MAZ buckets. Fixed to `MAZ` .	Enum
x-cos-bucket-region	Bucket region, such as `ap-beijing` , `ap-hongkong` , and `eu-frankfurt` . For the enumerated values, see Regions and Access Endpoints.	Enum

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Samples

Sample 1: OAZ bucket

Request

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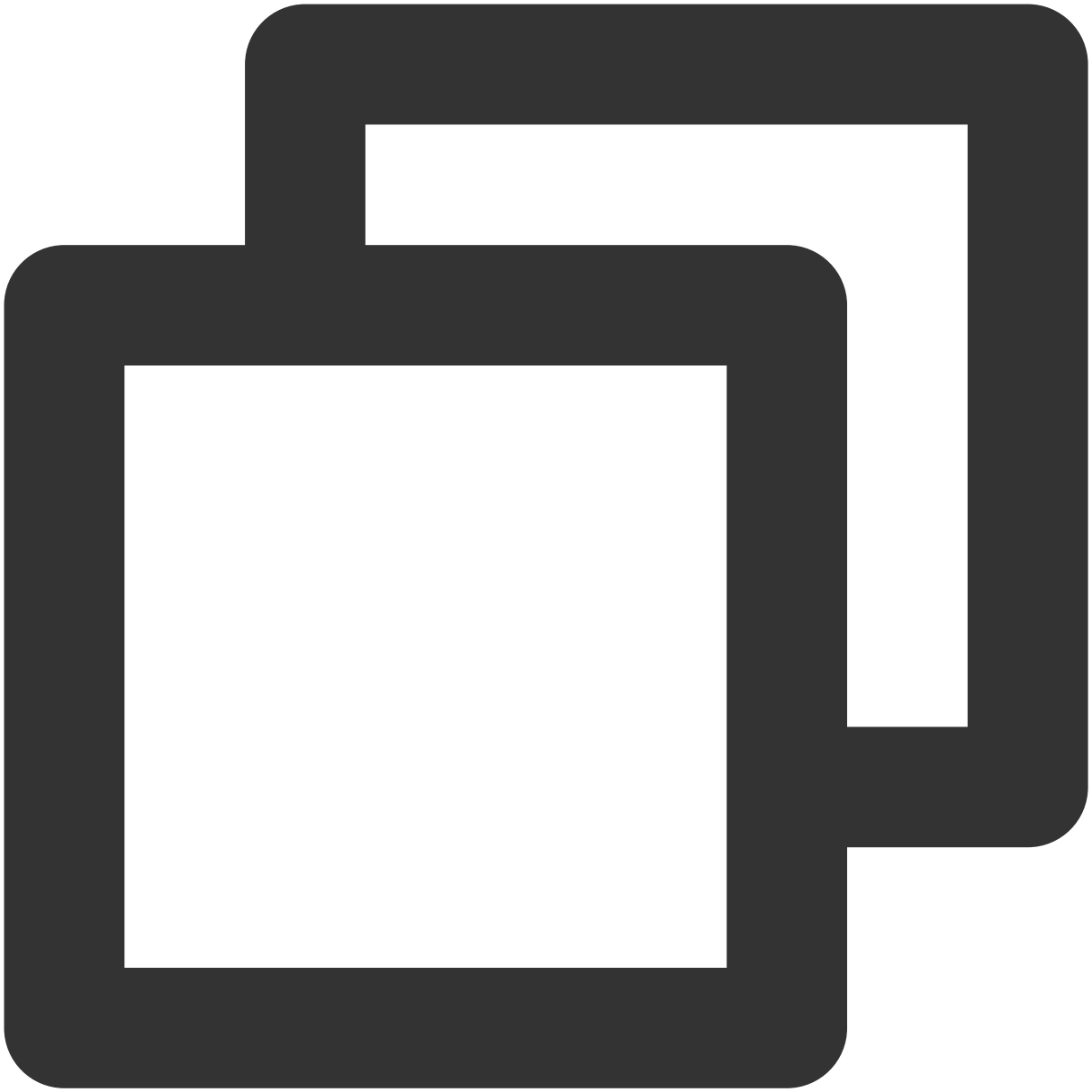

```
HEAD / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 28 May 2019 03:16:12 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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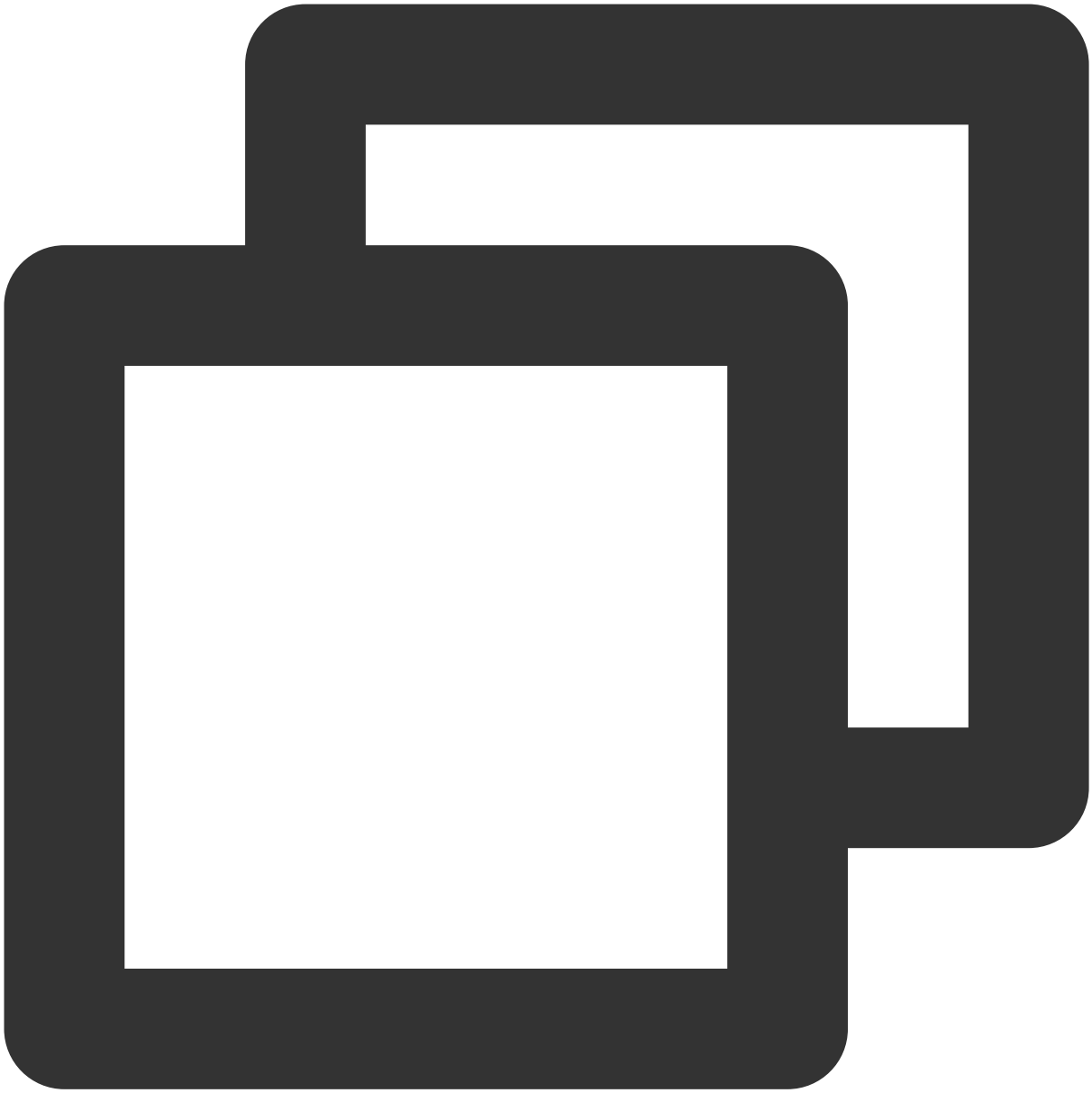

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Connection: close
Date: Tue, 28 May 2019 03:16:12 GMT
Server: tencent-cos
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWNlY2E3ZmNfZjhjMDBiMDlfMTBjOWRfZDcz****
```

Sample 2: MAZ bucket

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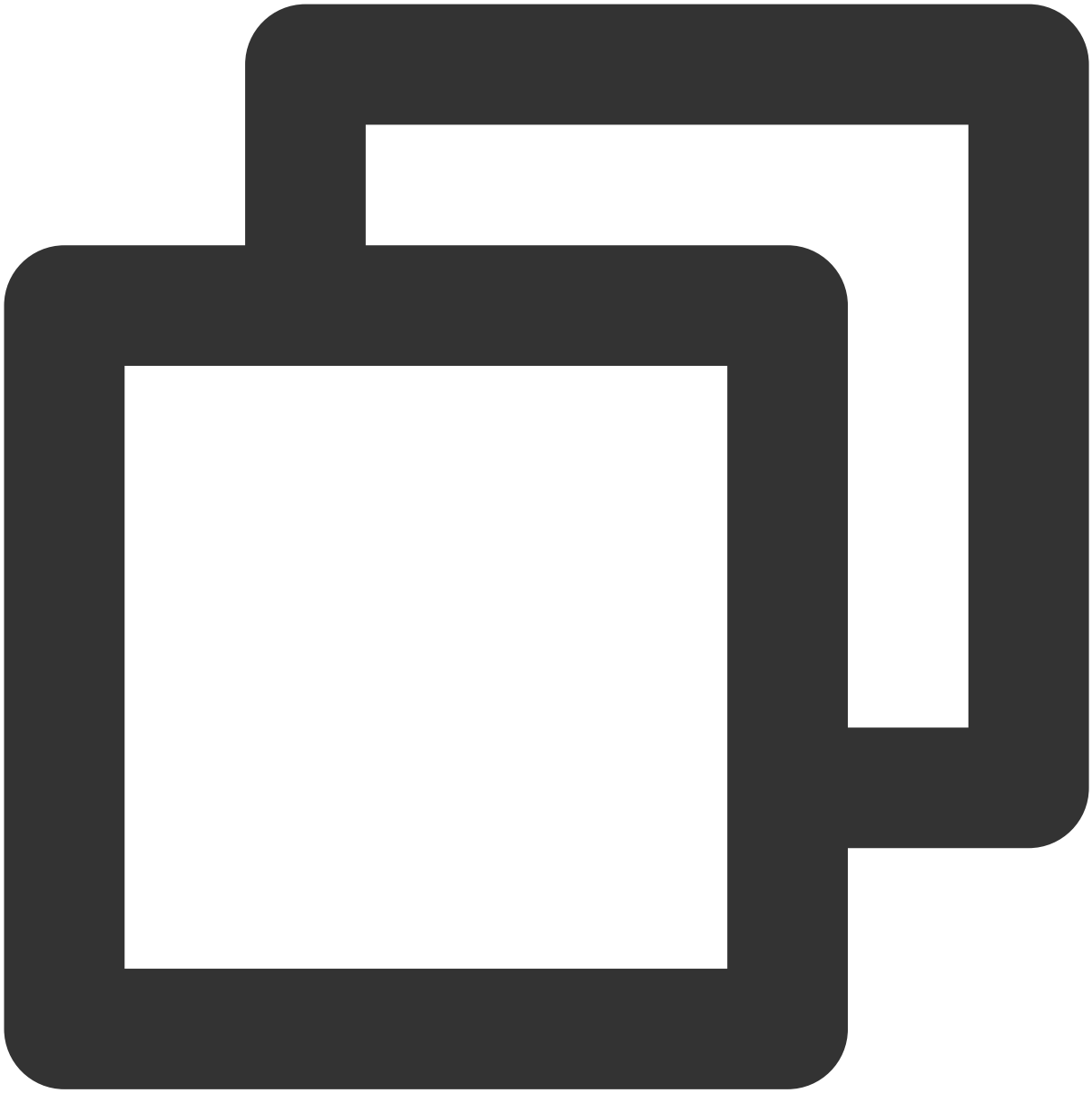
Request



```
HEAD / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 04 Jun 2020 06:43:03 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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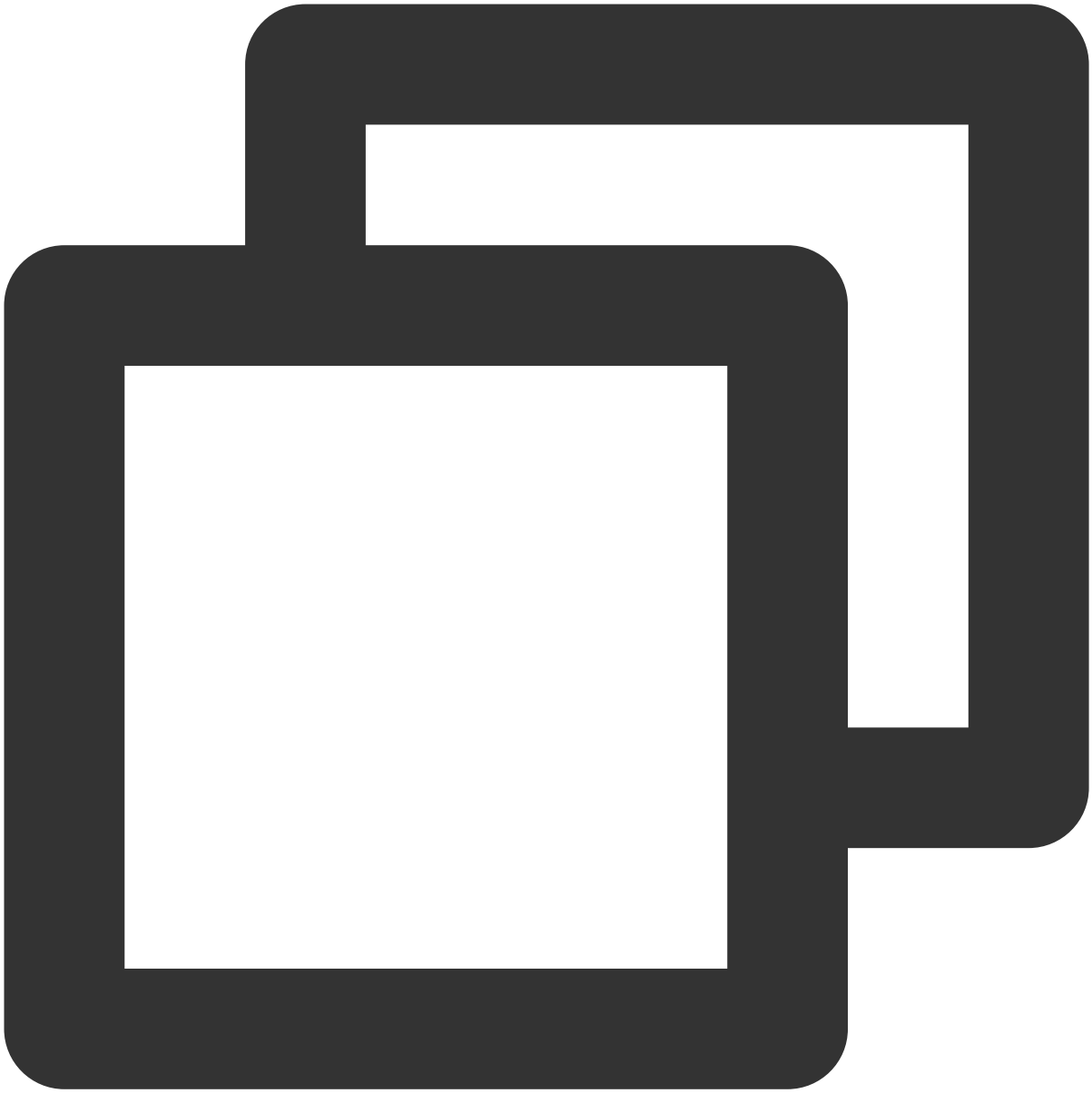

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Connection: close
Date: Thu, 04 Jun 2020 06:43:03 GMT
Server: tencent-cos
x-cos-bucket-az-type: MAZ
x-cos-bucket-region: ap-beijing
x-cos-request-id: NWVkODk3ZjdfZjI4NWQ2NF9hODhkXzRhNmQ0****
```

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DELETE Bucket

Last updated：2024-03-28 18:08:33

Overview

This API is used to delete a specified bucket. To call this API, you need to have permission to write to the bucket.

Note:

Before deleting a bucket, please make sure that all the data and incomplete multipart uploads in the bucket have been deleted; otherwise, the bucket cannot be deleted.

Request

Sample request

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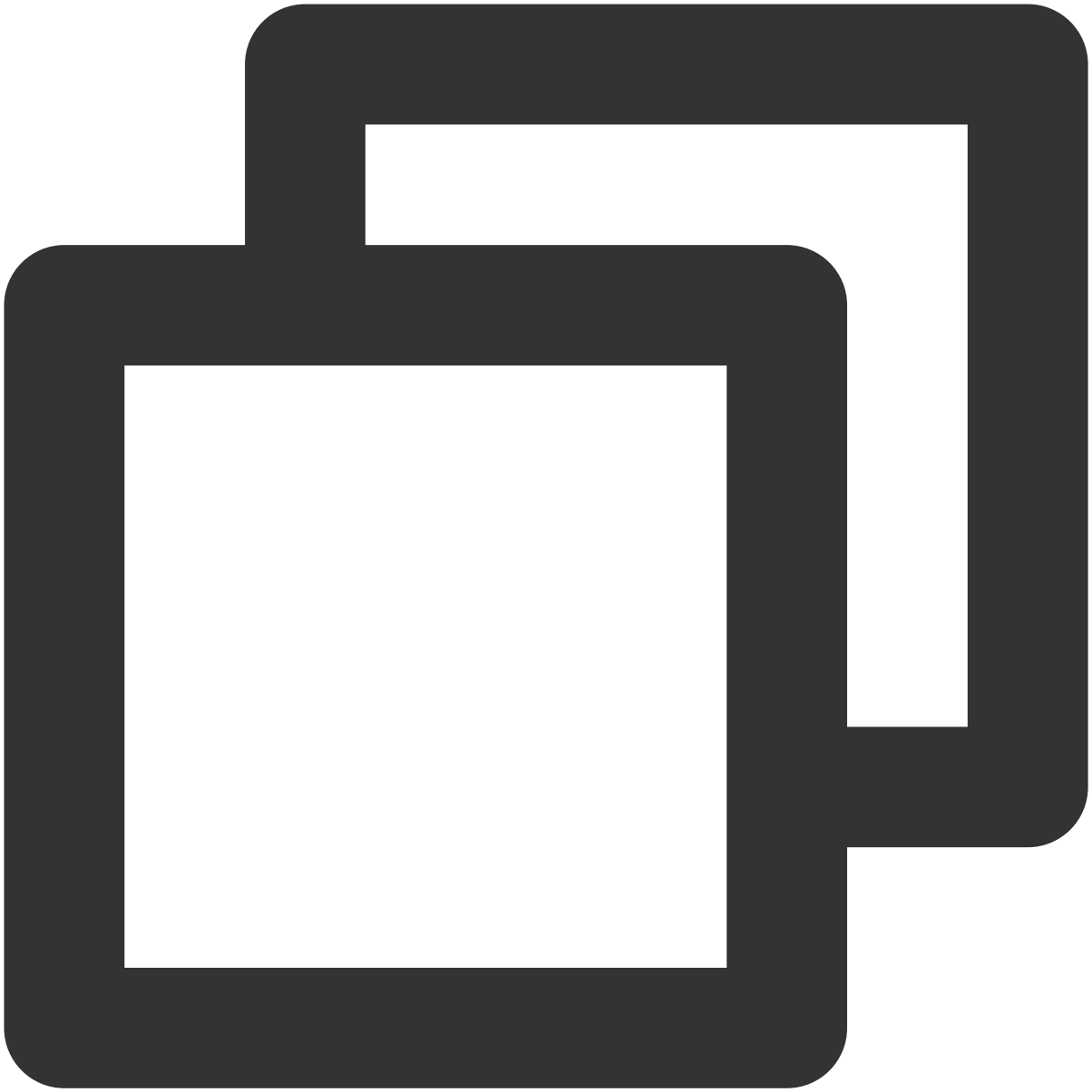

```
DELETE / HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Examples

Request

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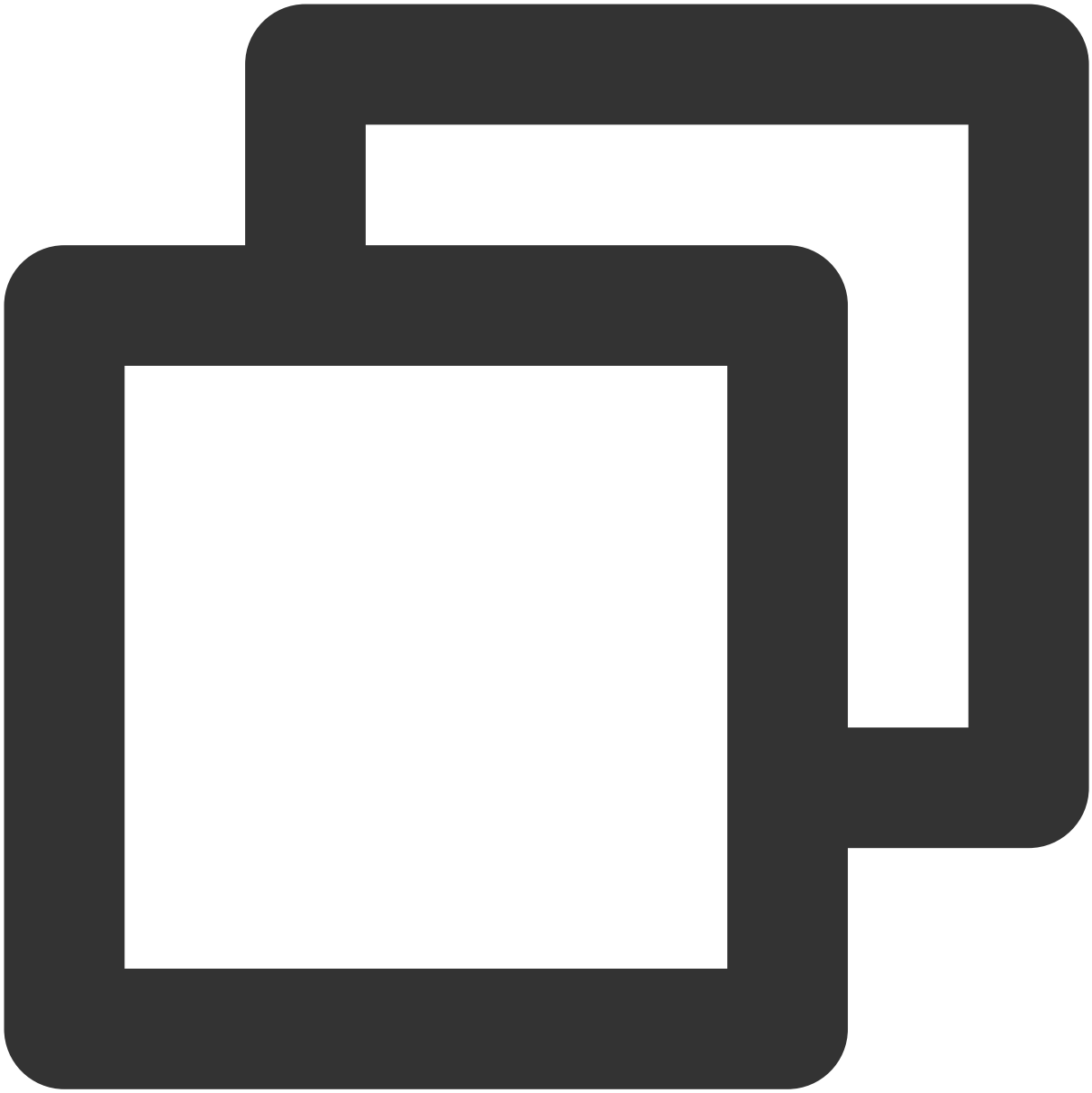

```
DELETE / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 28 May 2019 03:19:13 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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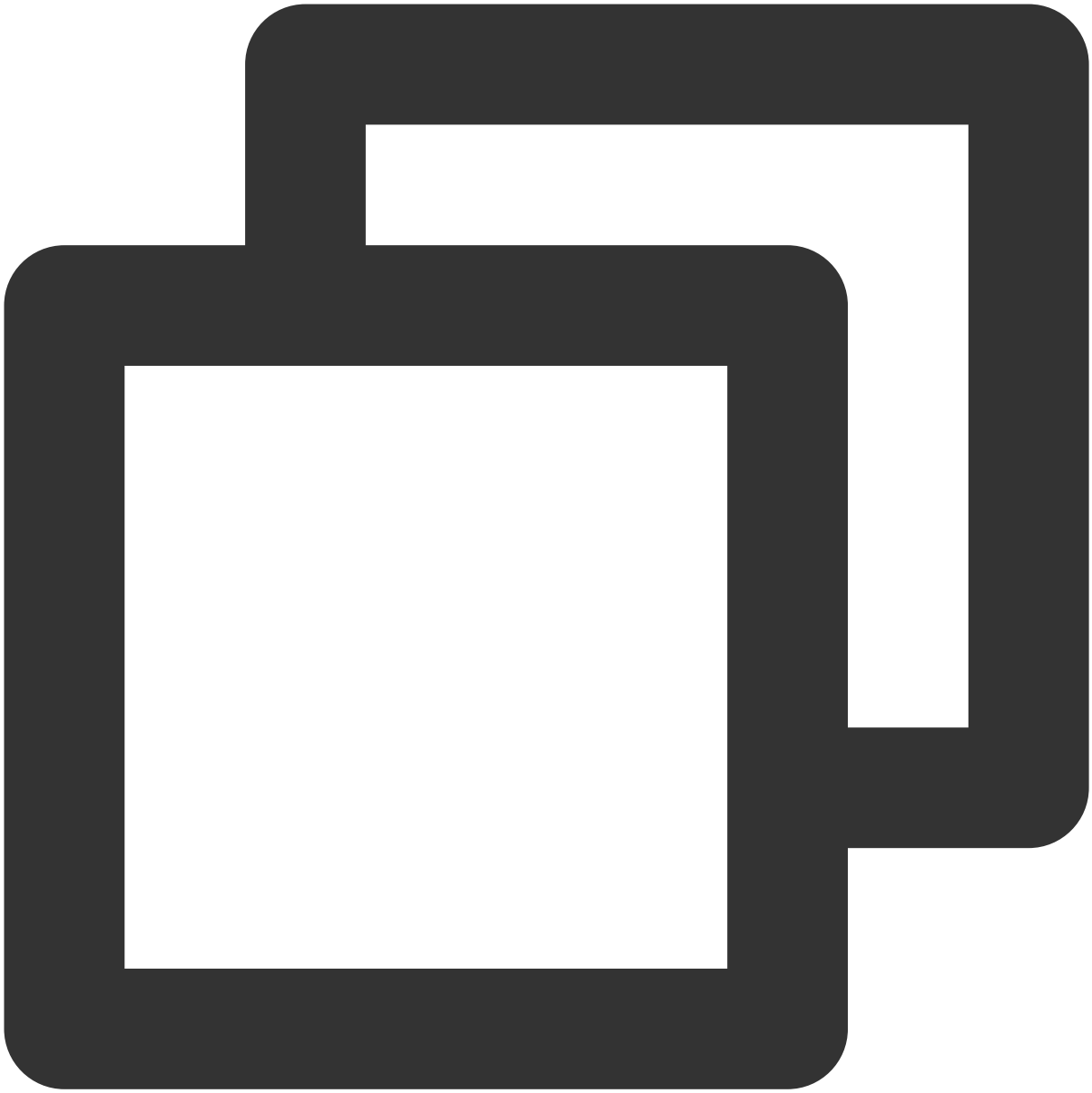

```
HTTP/1.1 204 No Content
Content-Length: 0
Connection: close
Date: Tue, 28 May 2019 03:19:14 GMT
Server: tencent-cos
x-cos-request-id: NWNlY2E4YjFfNjljMDBiMDlfMmNiZTlfZGE0****
```

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GET Bucket Object Versions

Last updated：2024-03-28 18:08:33

Overview

This API is used to get all objects in a bucket and their historical version information. You can also filter certain objects and their version information by specifying relevant parameters. To call this API, you need to have permission to read the bucket.

Request

Sample request

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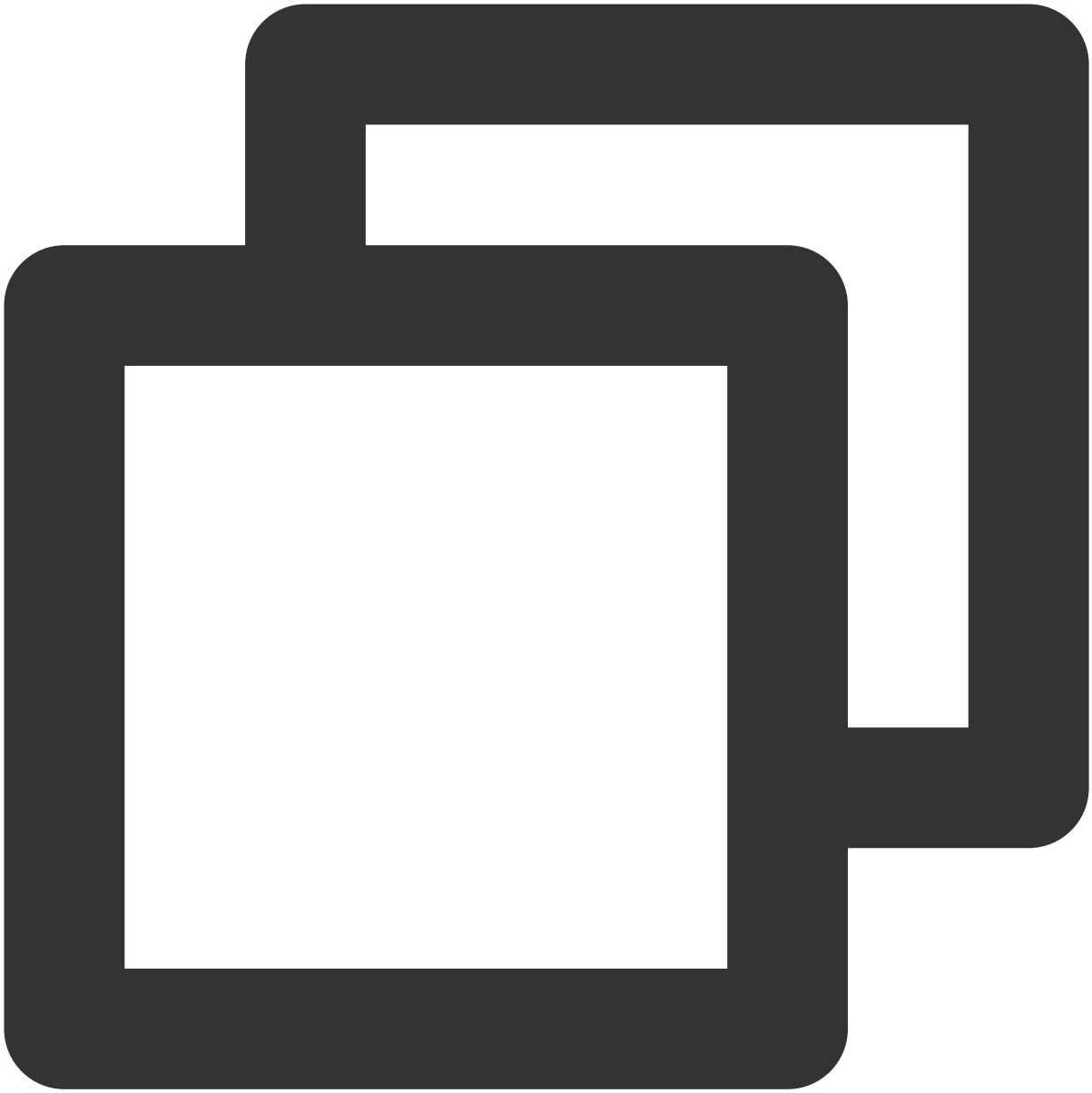

```
GET /?versions HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

Header	Description	Type	Required
prefix	Matching prefix for object keys. The response will contain only object keys with the specified prefix.	string	No
delimiter	A character delimiter used to group object keys. Keys that contain identical paths between the prefix (or, if no prefix is specified, the beginning of the string) and the first delimiter are grouped and defined as a `Prefix` node under `CommonPrefixes`. The grouped object keys will no longer appear in the subsequent object list. For specific scenarios and usage, see the examples below	string	No
encoding-type	Encoding type of the returned value. Valid value: `url`, meaning that the returned object keys are URL-encoded (percent-encoded) values. For example, "Tencent Cloud" will be encoded to `%E8%85%BE%E8%AE%AF%E4%BA%91`.	string	No
key-marker	Marker for the starting object key. Object version entries after this marker will be returned in UTF-8 lexicographical order.	string	No
version-id-marker	Marker for the starting version ID. Object version entries after this marker will be returned. If `NextVersionIdMarker` is empty in the last `ListVersionsResult` response, leave this parameter empty.	string	No
max-keys	The maximum number (up to 1,000) of keys returned in a response. Defaults to `1000`. **Note**: This parameter limits the maximum number of keys (the sum of `CommonPrefixes`, `Version`, and `DeleteMarker')` COS can return in each ListVersionsResult `response. If not all objects are listed in a single response, COS will return the` NextKeyMarker `and` NextVersionIdMarker `nodes, the values of which can be used to specify` key-marker `and` version-id-marker`, respectively, so that the remaining versions can be listed in your next request.	integer	No

Request headers

This API only uses Common Request Headers.

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Request body

This API does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

A successful query returns **application/xml** data, which contains information about object versions in the bucket. For the response bodies of different scenarios, see the examples below.

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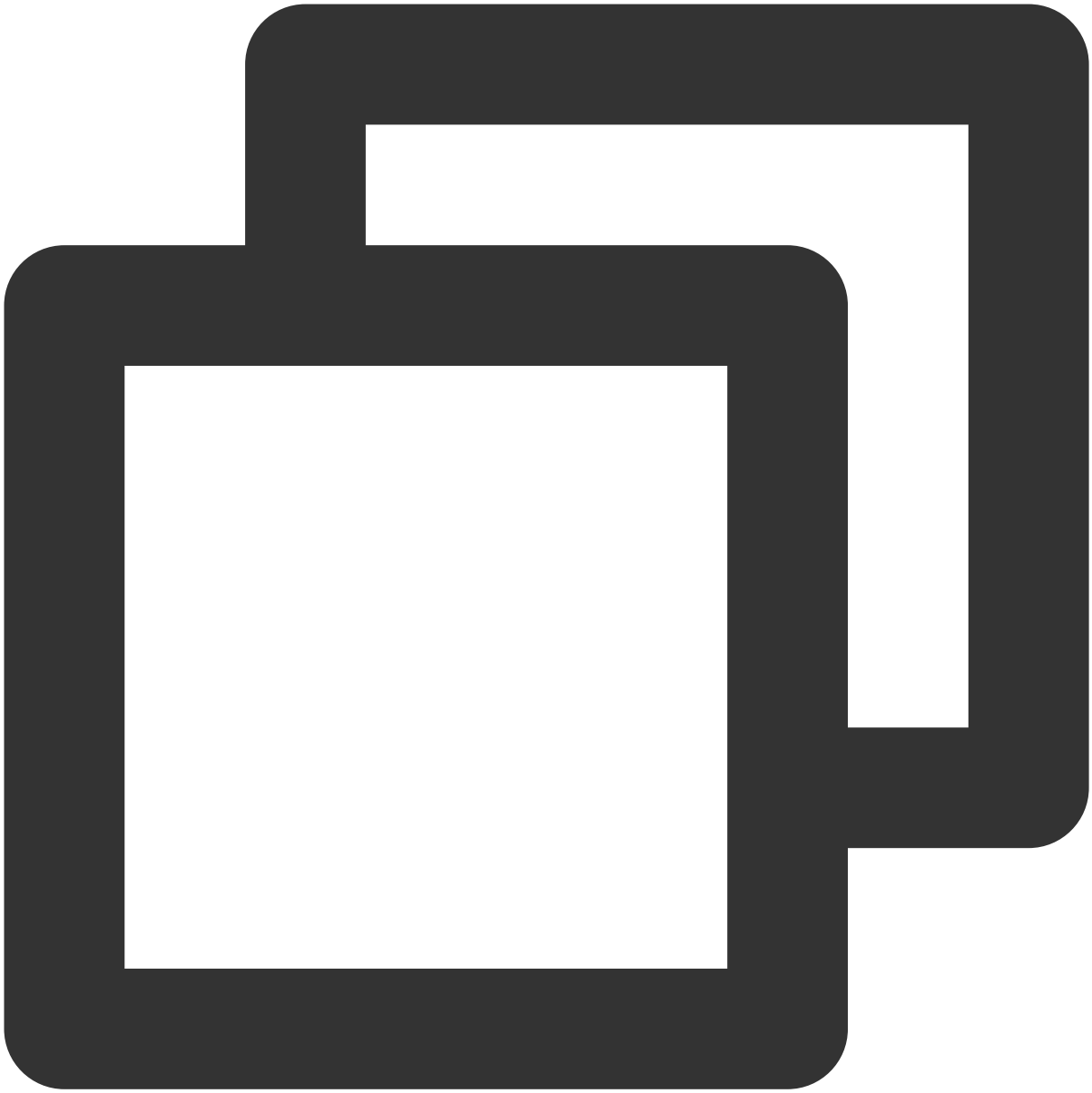

```
<ListVersionsResult>
        <EncodingType>string</EncodingType>
        <Name>string</Name>
        <Prefix>string</Prefix>
        <KeyMarker>string</KeyMarker>
        <VersionIdMarker>string</VersionIdMarker>
        <MaxKeys>integer</MaxKeys>
        <IsTruncated>boolean</IsTruncated>
        <NextKeyMarker>string</NextKeyMarker>
        <NextVersionIdMarker>string</NextVersionIdMarker>
        <Delimiter>string</Delimiter>
```

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```
        <CommonPrefixes>
            <Prefix>string</Prefix>
        </CommonPrefixes>
        <CommonPrefixes>
            <Prefix>string</Prefix>
        </CommonPrefixes>
        <Version>
            <Key>string</Key>
            <VersionId>string</VersionId>
            <IsLatest>boolean</IsLatest>
            <LastModified>date</LastModified>
            <ETag>string</ETag>
            <Size>integer</Size>
            <StorageClass>Enum</StorageClass>
            <StorageTier>Enum</StorageTier>
            <Owner>
                <ID>string</ID>
                <DisplayName>string</DisplayName>
            </Owner>
        </Version>
        <DeleteMarker>
            <Key>string</Key>
            <VersionId>string</VersionId>
            <IsLatest>boolean</IsLatest>
            <LastModified>date</LastModified>
            <Owner>
                <ID>string</ID>
                <DisplayName>string</DisplayName>
            </Owner>
        </DeleteMarker>
        <Version>
            <Key>string</Key>
            <VersionId>string</VersionId>
            <IsLatest>boolean</IsLatest>
            <LastModified>date</LastModified>
            <ETag>string</ETag>
            <Size>integer</Size>
            <StorageClass>Enum</StorageClass>
            <StorageTier>Enum</StorageTier>
            <Owner>
                <ID>string</ID>
                <DisplayName>string</DisplayName>
            </Owner>
        </Version>
        <DeleteMarker>
            <Key>string</Key>
            <VersionId>string</VersionId>
```

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```
            <IsLatest>boolean</IsLatest>
            <LastModified>date</LastModified>
            <Owner>
                <ID>string</ID>
                <DisplayName>string</DisplayName>
            </Owner>
        </DeleteMarker>
</ListVersionsResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
ListVersionsResult	None	Stores the result of `GET Bucket Object versions`.	Container

Content of `ListVersionsResult`:

Node Name (Keyword)	Parent Node	Description	Type
EncodingType	ListVersionsResult	Encoding type, which corresponds to the `encoding-type` parameter in the request. This node will be returned only when the `encoding-type` parameter is specified in the request.	string
Name	ListVersionsResult	Bucket name, formatted as `<BucketName-APPID>`, such as `examplebucket-1250000000`	string
Prefix	ListVersionsResult	Matching prefix to filter object keys. This node corresponds to the `Prefix` parameter in the request.	string
KeyMarker	ListVersionsResult	Marks the object key to start with. Object version entries after the marker will be returned in UTF-8 lexicographical order. This node corresponds to the `key-marker` parameter in the request.	string
VersionIdMarker	ListVersionsResult	Marks the version ID to start with. Object version entries after the marker will be returned. This node corresponds to the `version-id-marker` parameter in the request.	string
MaxKeys	ListVersionsResult	Maximum number of keys returned in a single	integer

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		response. This node corresponds to the `max-keys` parameter in the request.	
IsTruncated	ListVersionsResult	Indicates whether the returned list is truncated. Valid values: `true` , `false`	boolean
NextKeyMarker	ListVersionsResult	This node will be returned only if the returned list is truncated (i.e., the value of `IsTruncated` is `true`). The value of this node is the last object key in the current response. If you need to request subsequent entries, the value can be passed in as the value of the `key-marker` parameter in the next request.	string
NextVersionIdMarker	ListVersionsResult	This node will be returned only if the returned list is truncated (i.e., the value of `IsTruncated` is `true`). The value of this node is the last version ID in the current response. If you need to request subsequent entries, the value can be passed in as the value of the `version-id-marker` parameter in the next request. If this node is left empty, `version-id-marker` in the next request should also be left empty.	string
Delimiter	ListVersionsResult	Delimiter, which corresponds to the `delimiter` parameter in the request and will be returned only if the `delimiter` parameter is specified in the request.	string
CommonPrefixes	ListVersionsResult	The identical paths between the prefix (or, if no prefix is specified, the beginning of the string) and the first delimiter are grouped and defined as a common prefix. This node will be returned only if the `delimiter` parameter is specified in the request.	Container
Version	ListVersionsResult	Object version entry	Container
DeleteMarker	ListVersionsResult	Object delete marker entry	Container

Content of `CommonPrefixes` :

Node Name (Keyword)	Parent Node	Description	Type
Prefix	ListVersionsResult.CommonPrefixes	A single common prefix	string

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Content of `Version`:

Node Name (Keyword)	Parent Node	Description	Type
Key	ListVersionsResult.Version	Object key	string
VersionId	ListVersionsResult.Version	Version ID of the object If versioning is disabled, the value of this node is an empty string. If versioning is enabled, the value of this node is `null` for an object uploaded before you enable versioning. If versioning is suspended, the value of this node is `null` for an object uploaded after you suspend versioning. Note that each object can have only one object version whose ID is `null`.	string
IsLatest	ListVersionsResult.Version	Indicates whether the current version is the latest one of the object.	boolean
LastModified	ListVersionsResult.Version	Last modified time of the current version, in ISO 8601 format (for example, 2019-05-24T10:56:40Z)	date
ETag	ListBucketResult.Contents	Entity tag of the object. It indicates the content of the object when it is created and can be used to verify whether the object content is changed. Example: "8e0b617ca298a564c3331da28dcb50df" The value of `ETag` is not necessarily the MD5 checksum of the object. The value will be different if the uploaded object is encrypted.	string
Size	ListVersionsResult.Version	Object size, in bytes	integer
StorageClass	ListVersionsResult.Version	Object storage class, such as `STANDARD_IA` or `ARCHIVE`. For enumerated values, please see Storage Class Overview.	Enum
StorageTier	ListVersionsResult.Version	Access tier (for INTELLIGENT TIERING) the object is currently stored in. Enumerated values: `FREQUENT`, `INFREQUENT`. This node is returned only when `StorageClass` is set to `INTELLIGENT_TIERING`.	Enum

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Owner	ListVersionsResult.Version	Information of the object owner	Container

Content of `Version.Owner`:

Node Name (Keyword)	Parent Node	Description	Type
ID	ListVersionsResult.Version.Owner	`APPID` of the object owner	string
DisplayName	ListVersionsResult.Version.Owner	Name of the object owner	string

Content of `DeleteMarker`:

Node Name (Keyword)	Parent Node	Description	Type
Key	ListVersionsResult.DeleteMarker	Object key	string
VersionId	ListVersionsResult.DeleteMarker	Version ID of the object delete marker	string
IsLatest	ListVersionsResult.DeleteMarker	Indicates whether the current delete marker version is the latest one of the object.	boolean
LastModified	ListVersionsResult.DeleteMarker	Last modified time of the current delete marker, in ISO 8601 format (for example, 2019-05-24T10:56:40Z)	date
Owner	ListVersionsResult.DeleteMarker	Information of the object owner	Container

Content of `DeleteMarker.Owner`:

Node Name (Keyword)	Parent Node	Description	Type
ID	ListVersionsResult.DeleteMarker.Owner	`APPID` of the object owner	string
DisplayName	ListVersionsResult.DeleteMarker.Owner	Name of the object owner	string

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Examples

Example 1: versioning not enabled

Request

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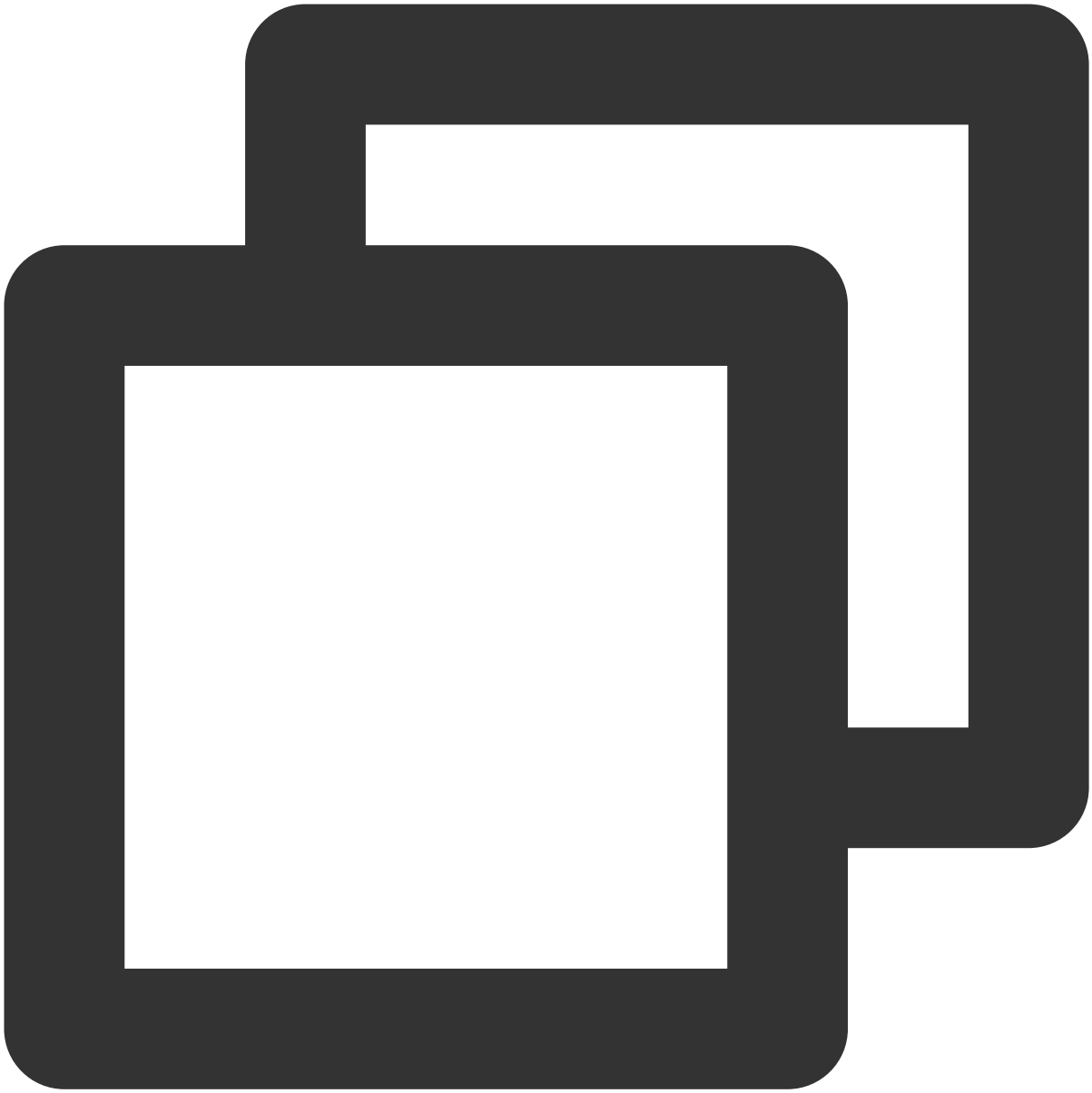

```
GET /?versions HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 03:35:34 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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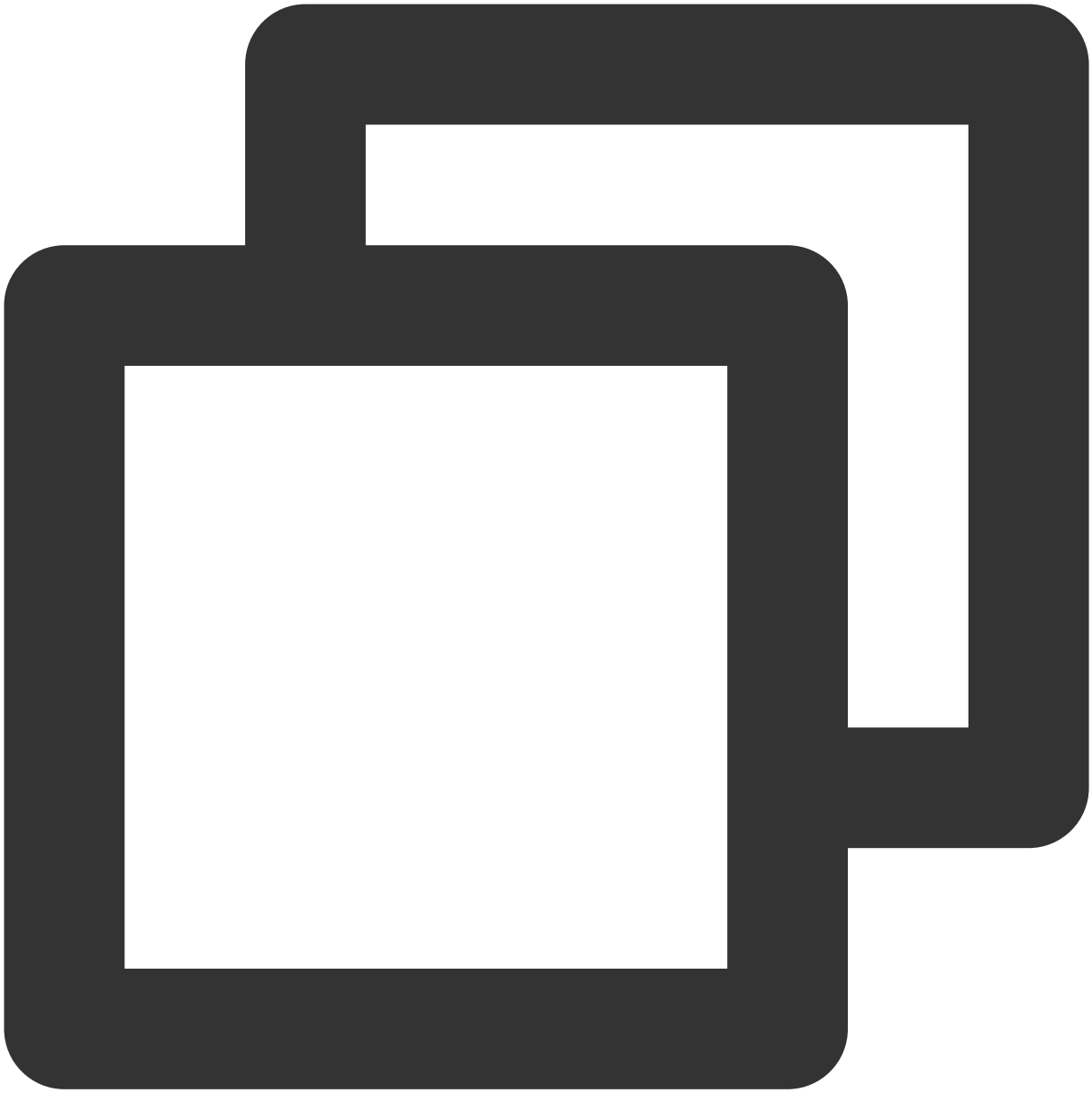

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 952
Connection: close
Date: Thu, 10 Dec 2020 03:35:34 GMT
Server: tencent-cos
x-cos-request-id: NWZkMTk3ODZfZDUyNzVkNjRfNDgxYl8xNjU5****



<ListVersionsResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <KeyMarker/>
            <VersionIdMarker/>
            <MaxKeys>1000</MaxKeys>
            <IsTruncated>false</IsTruncated>
            <Version>
                <Key>example-object-1.jpg</Key>
                <VersionId/>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-10T03:35:24.000Z</LastModified>
                <ETag>&quot;0f0cd12c48979d1bf3f95255a36cb861&quot;</ETag>
                <Size>20</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
            <Version>
                <Key>example-object-2.jpg</Key>
                <VersionId/>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-10T03:35:24.000Z</LastModified>
                <ETag>&quot;dcffaafe67632b2bd2dd0b9456eafca7&quot;</ETag>
                <Size>23</Size>
                <StorageClass>INTELLIGENT_TIERING</StorageClass>
                <StorageTier>FREQUENT</StorageTier>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
</ListVersionsResult>
```

Example 2. Uploading an object and then enabling versioning, making its version ID `null` (a continuity of example 1)

Request

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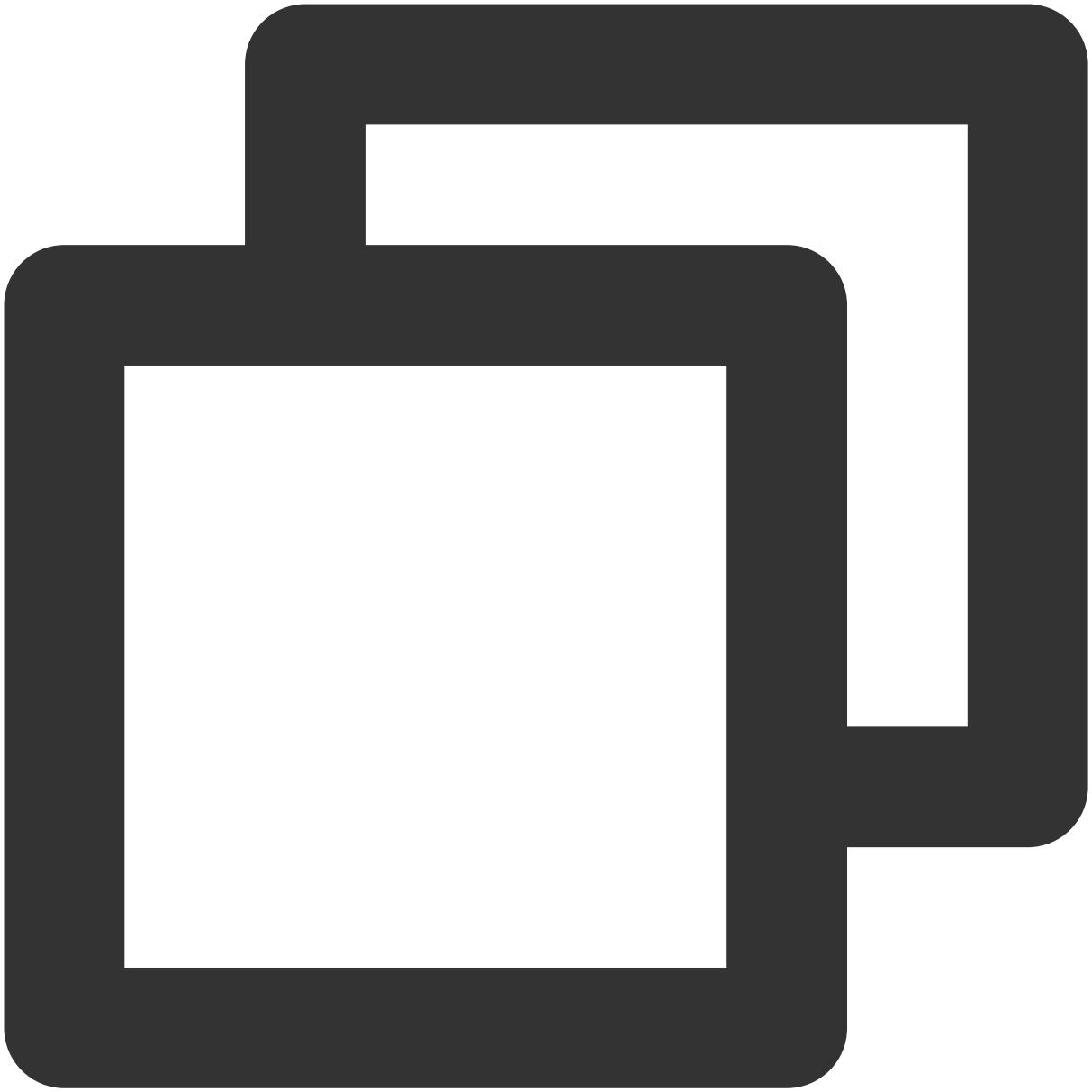

```
GET /?versions HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 03:36:05 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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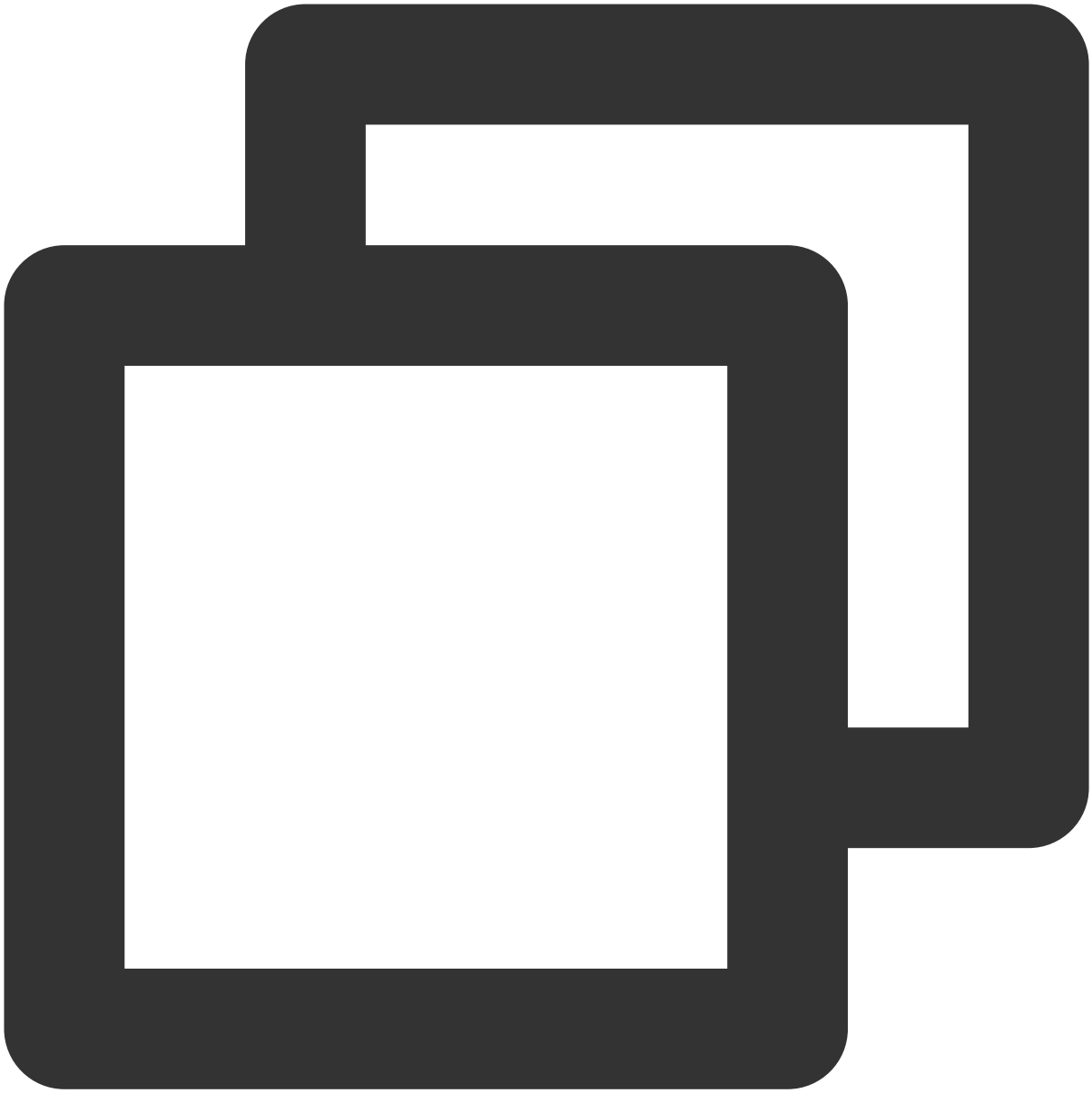

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 2070
Connection: close
Date: Thu, 10 Dec 2020 03:36:05 GMT
Server: tencent-cos
x-cos-request-id: NWZkMTk3YTVfYjFiODJhMDlfNTg0MDZfMTdj****



<ListVersionsResult>
```

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```
<Name>examplebucket-1250000000</Name>
<Prefix/>
<KeyMarker/>
<VersionIdMarker/>
<MaxKeys>1000</MaxKeys>
<IsTruncated>false</IsTruncated>
<Version>
    <Key>example-object-1.jpg</Key>
    <VersionId>null</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T03:35:24.000Z</LastModified>
    <ETag>&amp;quot;0f0cd12c48979d1bf3f95255a36cb861&amp;quot;</ETag>
    <Size>20</Size>
    <StorageClass>STANDARD</StorageClass>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<Version>
    <Key>example-object-2.jpg</Key>
    <VersionId>MTg0NDUxMzY1MDIzNjQ3NTcwMDk</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T03:35:44.000Z</LastModified>
    <ETag>&amp;quot;51ffadb19b3bf062ecd0c6f044a4d4ce&amp;quot;</ETag>
    <Size>23</Size>
    <StorageClass>STANDARD_IA</StorageClass>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<Version>
    <Key>example-object-2.jpg</Key>
    <VersionId>null</VersionId>
    <IsLatest>false</IsLatest>
    <LastModified>2020-12-10T03:35:24.000Z</LastModified>
    <ETag>&amp;quot;dcffaafe67632b2bd2dd0b9456eafca7&amp;quot;</ETag>
    <Size>23</Size>
    <StorageClass>INTELLIGENT_TIERING</StorageClass>
    <StorageTier>FREQUENT</StorageTier>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<DeleteMarker>
```

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```
                <Key>example-object-3.jpg</Key>
                <VersionId>MTg0NDUxMzY1MDIzNTQ1ODM2NjE</VersionId>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-10T03:35:54.000Z</LastModified>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </DeleteMarker>
            <Version>
                <Key>example-object-3.jpg</Key>
                <VersionId>MTg0NDUxMzY1MDIzNjQ3NjM2MDY</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-10T03:35:44.000Z</LastModified>
                <ETag>&quot;b2f1d893c5fde000ee8ea6eca18ed81f&quot;</ETag>
                <Size>20</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
</ListVersionsResult>
```

Example 3. Suspending versioning and then uploading an object, making its version ID `null` (each object can have only one object version whose ID is `null`) (a continuity of example 2)

Request

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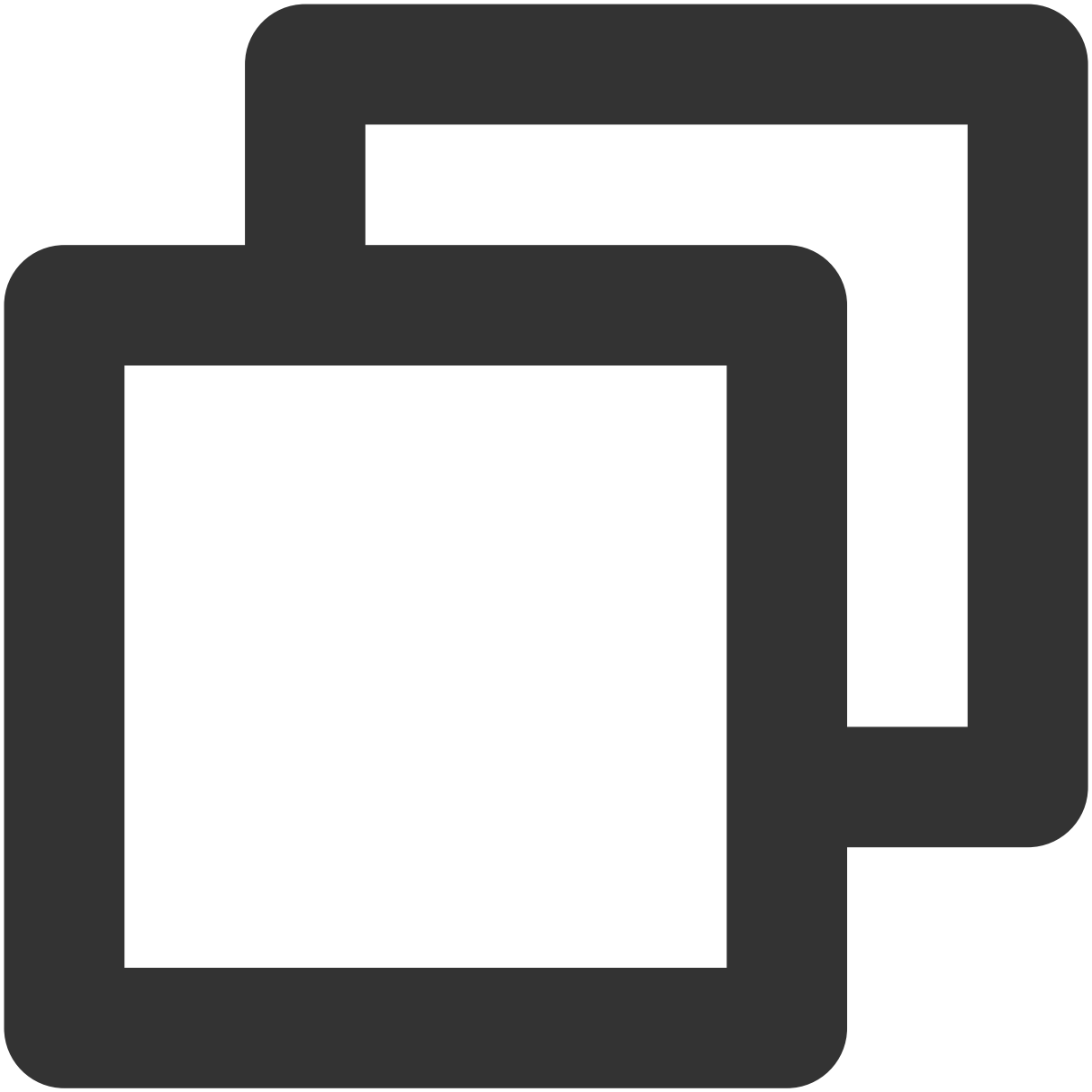

```
GET /?versions HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 03:36:25 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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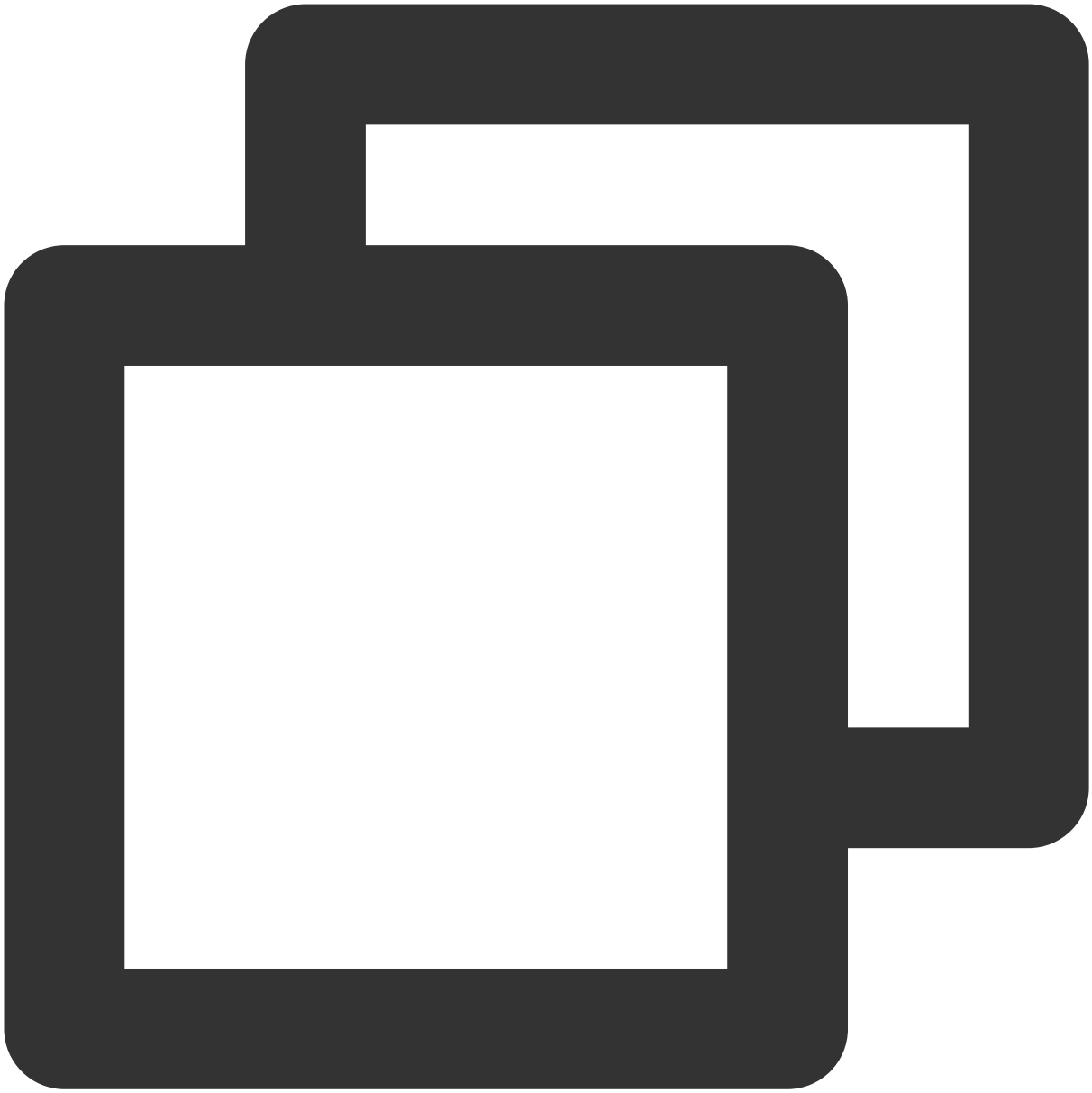

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 2396
Connection: close
Date: Thu, 10 Dec 2020 03:36:25 GMT
Server: tencent-cos
x-cos-request-id: NWZkMTk3YjlfNDhhOTBiMDlfMTYzNTZfMTIw****



<ListVersionsResult>
```

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```
<Name>examplebucket-1250000000</Name>
<Prefix/>
<KeyMarker/>
<VersionIdMarker/>
<MaxKeys>1000</MaxKeys>
<IsTruncated>false</IsTruncated>
<Version>
    <Key>example-object-1.jpg</Key>
    <VersionId>null</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T03:35:24.000Z</LastModified>
    <ETag>&amp;quot;0f0cd12c48979d1bf3f95255a36cb861&amp;quot;</ETag>
    <Size>20</Size>
    <StorageClass>STANDARD</StorageClass>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<Version>
    <Key>example-object-2.jpg</Key>
    <VersionId>null</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T03:36:15.000Z</LastModified>
    <ETag>&amp;quot;51ffadb19b3bf062ecd0c6f044a4d4ce&amp;quot;</ETag>
    <Size>23</Size>
    <StorageClass>STANDARD</StorageClass>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<Version>
    <Key>example-object-2.jpg</Key>
    <VersionId>MTg0NDUxMzY1MDIzNjQ3NTcwMDk</VersionId>
    <IsLatest>false</IsLatest>
    <LastModified>2020-12-10T03:35:44.000Z</LastModified>
    <ETag>&amp;quot;51ffadb19b3bf062ecd0c6f044a4d4ce&amp;quot;</ETag>
    <Size>23</Size>
    <StorageClass>STANDARD_IA</StorageClass>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<Version>
    <Key>example-object-3.jpg</Key>
```

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```
                <VersionId>null</VersionId>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-10T03:36:15.000Z</LastModified>
                <ETag>&amp;quot;b2f1d893c5fde000ee8ea6eca18ed81f&amp;quot;</ETag>
                <Size>20</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
            <DeleteMarker>
                <Key>example-object-3.jpg</Key>
                <VersionId>MTg0NDUxMzY1MDIzNTQ1ODM2NjE</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-10T03:35:54.000Z</LastModified>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </DeleteMarker>
            <Version>
                <Key>example-object-3.jpg</Key>
                <VersionId>MTg0NDUxMzY1MDIzNjQ3NjM2MDY</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-10T03:35:44.000Z</LastModified>
                <ETag>&amp;quot;b2f1d893c5fde000ee8ea6eca18ed81f&amp;quot;</ETag>
                <Size>20</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
</ListVersionsResult>
```

Example 4. Specifying the `encoding-type` parameter (object keys are URL-encoded)

Request

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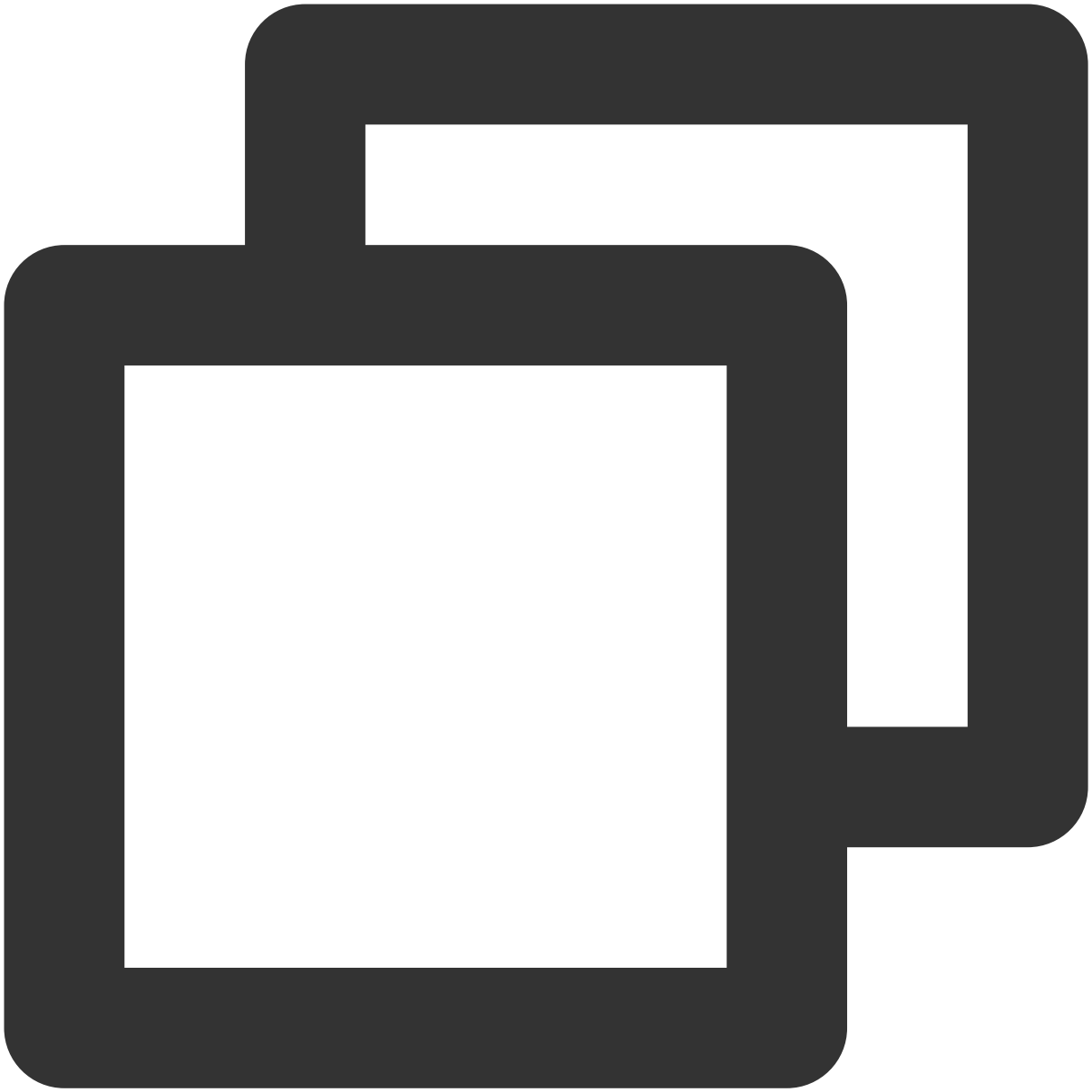

```
GET /?versions&encoding-type=url HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 04:54:22 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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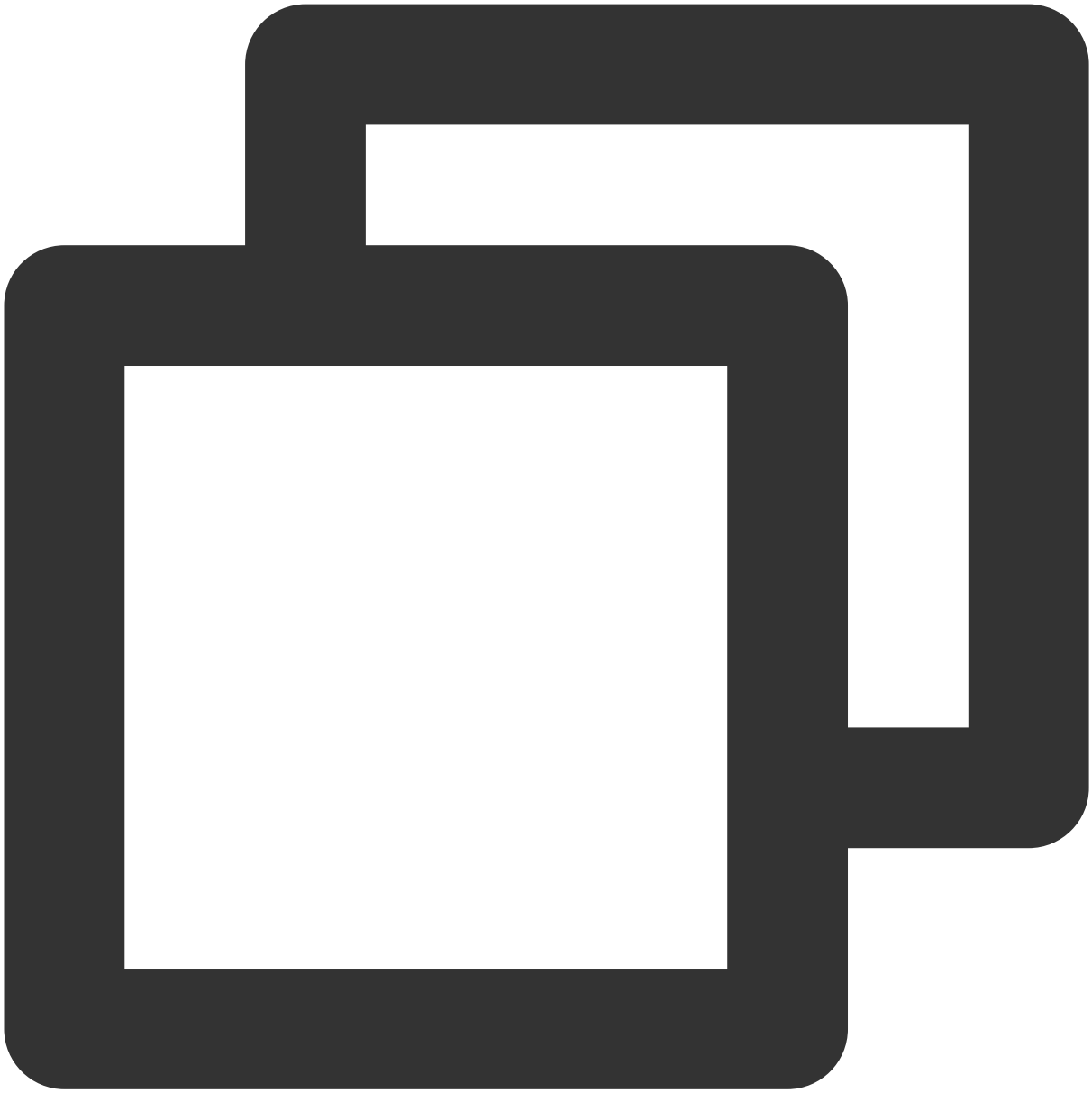

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 2167
Connection: close
Date: Thu, 10 Dec 2020 04:54:22 GMT
Server: tencent-cos
x-cos-request-id: NWZkMWE5ZmVfZTdjODJhMDlfMzgxZl8xMzQ1****



<ListVersionsResult>
```

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```
<EncodingType>url</EncodingType>
<Name>examplebucket-1250000000</Name>
<Prefix/>
<KeyMarker/>
<VersionIdMarker/>
<MaxKeys>1000</MaxKeys>
<IsTruncated>false</IsTruncated>
<Version>
    <Key>Tencent%20Cloud.jpg</Key>
    <VersionId>MTg0NDUxMzY0OTc2NjcxNzE4NjA</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T04:54:02.000Z</LastModified>
    <ETag>&quot;ee8de918d05640145b18f70f4c3aa602&quot;</ETag>
    <Size>16</Size>
    <StorageClass>STANDARD</StorageClass>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<DeleteMarker>
    <Key>%E7%85%A7%E7%89%87/2020%E5%B9%B4/IMG0001.jpg</Key>
    <VersionId>MTg0NDUxMzY0OTc2NTY5MDU3OTc</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T04:54:12.000Z</LastModified>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</DeleteMarker>
<Version>
    <Key>%E7%85%A7%E7%89%87/2020%E5%B9%B4/IMG0001.jpg</Key>
    <VersionId>MTg0NDUxMzY0OTc2NjcwNjMwMDQ</VersionId>
    <IsLatest>false</IsLatest>
    <LastModified>2020-12-10T04:54:02.000Z</LastModified>
    <ETag>&quot;ee8de918d05640145b18f70f4c3aa602&quot;</ETag>
    <Size>16</Size>
    <StorageClass>STANDARD</StorageClass>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<Version>
    <Key>%E8%85%BE%E8%AE%AF%E4%BA%91.jpg</Key>
    <VersionId>MTg0NDUxMzY0OTc2NTY5MDA4NzU</VersionId>
    <IsLatest>true</IsLatest>
```

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```
                <LastModified>2020-12-10T04:54:12.000Z</LastModified>
                <ETag>&amp;quot;8bb76a43f75d3b96442c470f8ec23b89&amp;quot;</ETag>
                <Size>16</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
            <Version>
                <Key>%E8%85%BE%E8%AE%AF%E4%BA%91.jpg</Key>
                <VersionId>MTg0NDUxMzY0OTc2NjcxNzA2ODg</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-10T04:54:02.000Z</LastModified>
                <ETag>&amp;quot;dcc880c5eba9e002bc4567c733b0e63e&amp;quot;</ETag>
                <Size>13</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
</ListVersionsResult>
```

Example 5. Specifying the `delimiter` parameter (listing object versions and subdirectories in the root directory)

Request

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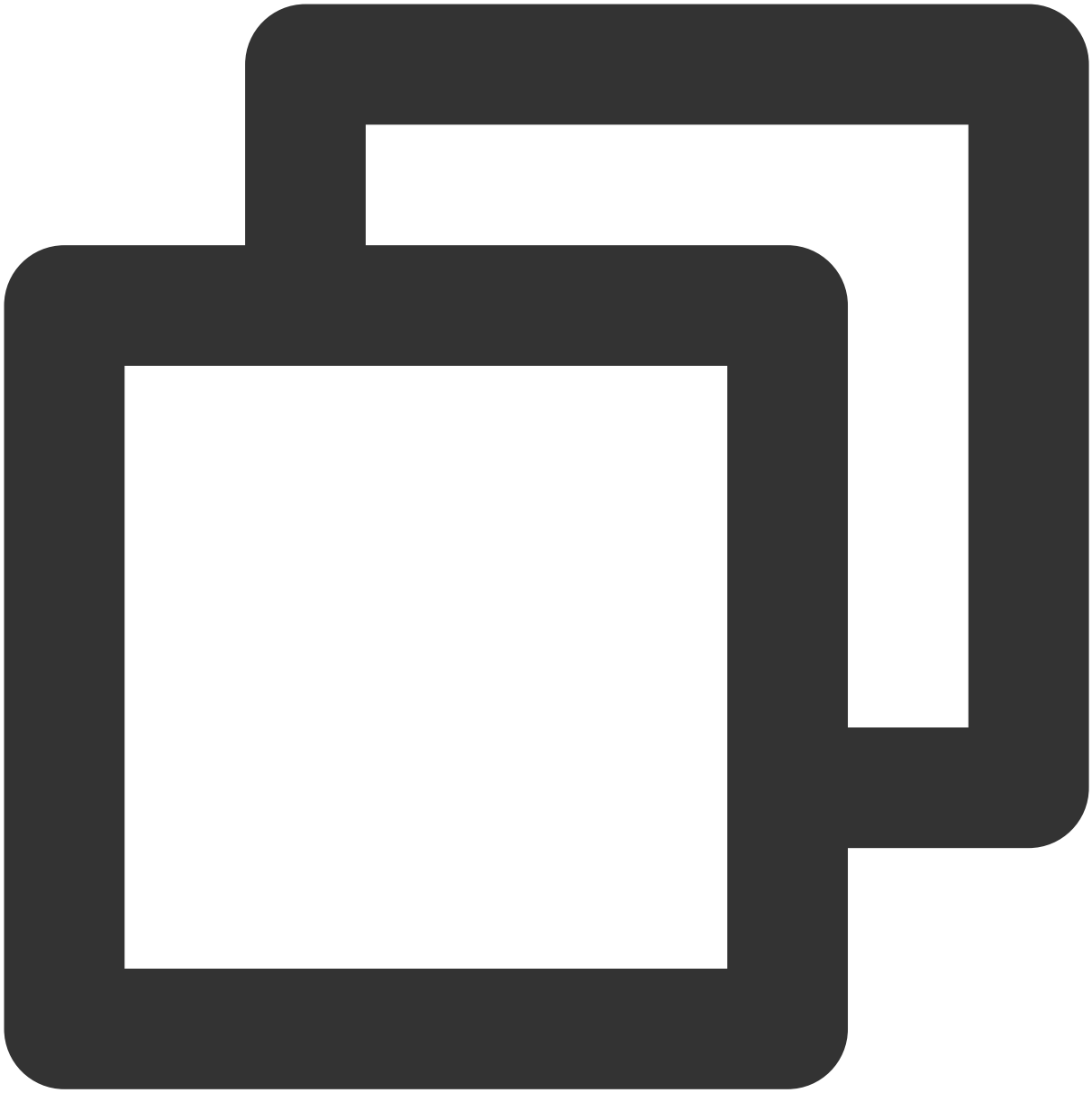

```
GET /?versions&delimiter=%2F HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 07:04:03 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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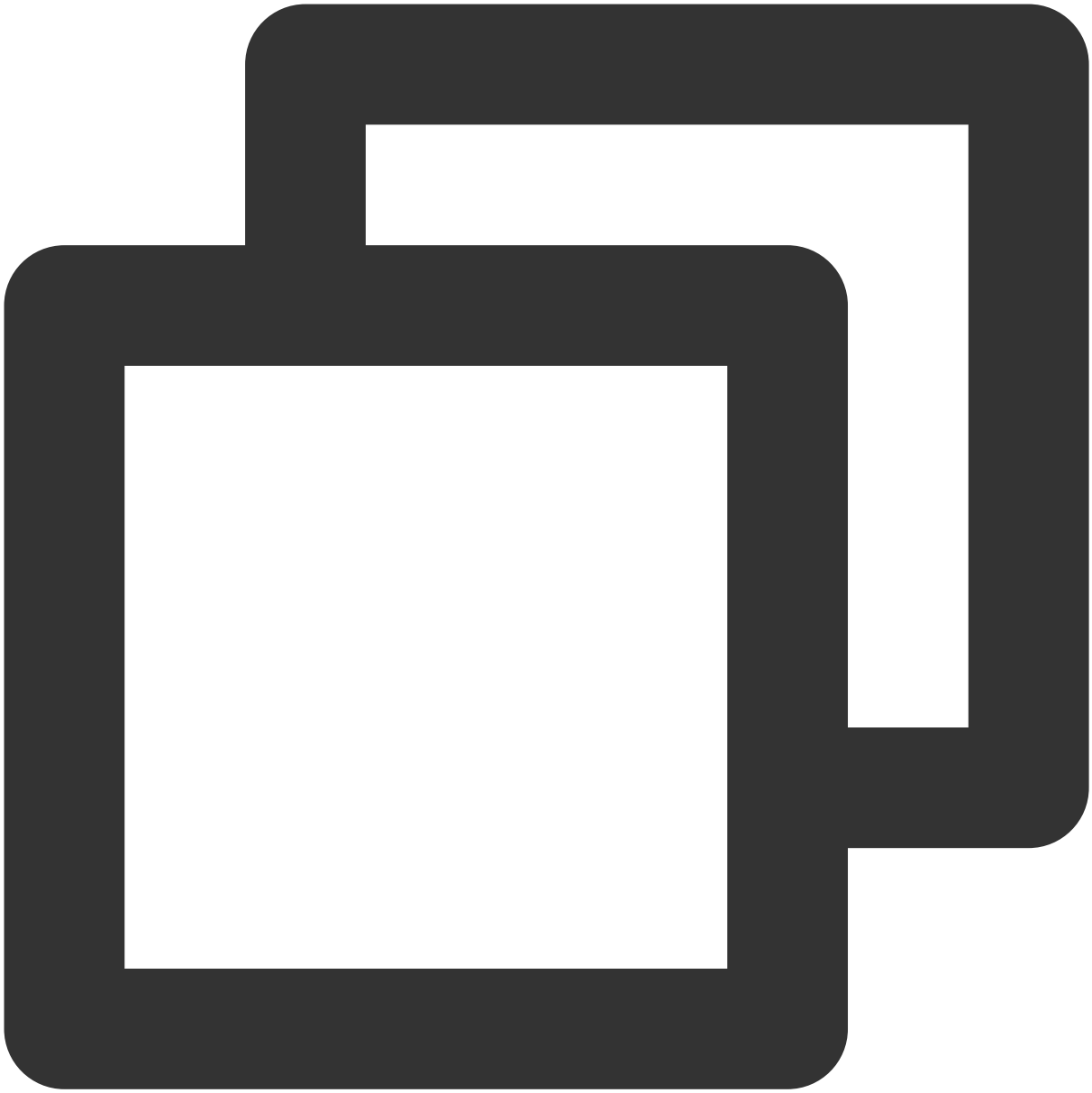

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1893
Connection: close
Date: Thu, 10 Dec 2020 07:04:03 GMT
Server: tencent-cos
x-cos-request-id: NWZkMWM4NjNfNzFjODJhMDlfMjlhZTRfMTg5****



<ListVersionsResult>
```

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```
<Name>examplebucket-1250000000</Name>
<Prefix/>
<KeyMarker/>
<VersionIdMarker/>
<MaxKeys>1000</MaxKeys>
<IsTruncated>false</IsTruncated>
<Delimiter>/</Delimiter>
<CommonPrefixes>
    <Prefix>example-folder-1/</Prefix>
</CommonPrefixes>
<CommonPrefixes>
    <Prefix>example-folder-2/</Prefix>
</CommonPrefixes>
<DeleteMarker>
    <Key>example-object-1.jpg</Key>
    <VersionId>MTg0NDUxMzY0ODk4NzYzNTE4Nzk</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T07:03:53.000Z</LastModified>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</DeleteMarker>
<Version>
    <Key>example-object-1.jpg</Key>
    <VersionId>MTg0NDUxMzY0ODk4ODY2NTcxMzY</VersionId>
    <IsLatest>false</IsLatest>
    <LastModified>2020-12-10T07:03:42.000Z</LastModified>
    <ETag>&quot;0f0cd12c48979d1bf3f95255a36cb861&quot;</ETag>
    <Size>20</Size>
    <StorageClass>STANDARD</StorageClass>
    <Owner>
            <ID>1250000000</ID>
            <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<Version>
    <Key>example-object-2.jpg</Key>
    <VersionId>MTg0NDUxMzY0ODk4NzYzODYyODA</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T07:03:53.000Z</LastModified>
    <ETag>&quot;51ffadb19b3bf062ecd0c6f044a4d4ce&quot;</ETag>
    <Size>23</Size>
    <StorageClass>INTELLIGENT_TIERING</StorageClass>
    <StorageTier>FREQUENT</StorageTier>
    <Owner>
            <ID>1250000000</ID>
```

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```
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
            <Version>
                <Key>example-object-2.jpg</Key>
                <VersionId>MTg0NDUxMzY0ODk4ODY2NTA0Mjk</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-10T07:03:42.000Z</LastModified>
                <ETag>&quot;dcffaafe67632b2bd2dd0b9456eafca7&quot;</ETag>
                <Size>23</Size>
                <StorageClass>STANDARD_IA</StorageClass>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
</ListVersionsResult>
```

Example 6. Specifying the `prefix` and `delimiter` parameters (listing object versions and subdirectories in a specified subdirectory)

Request

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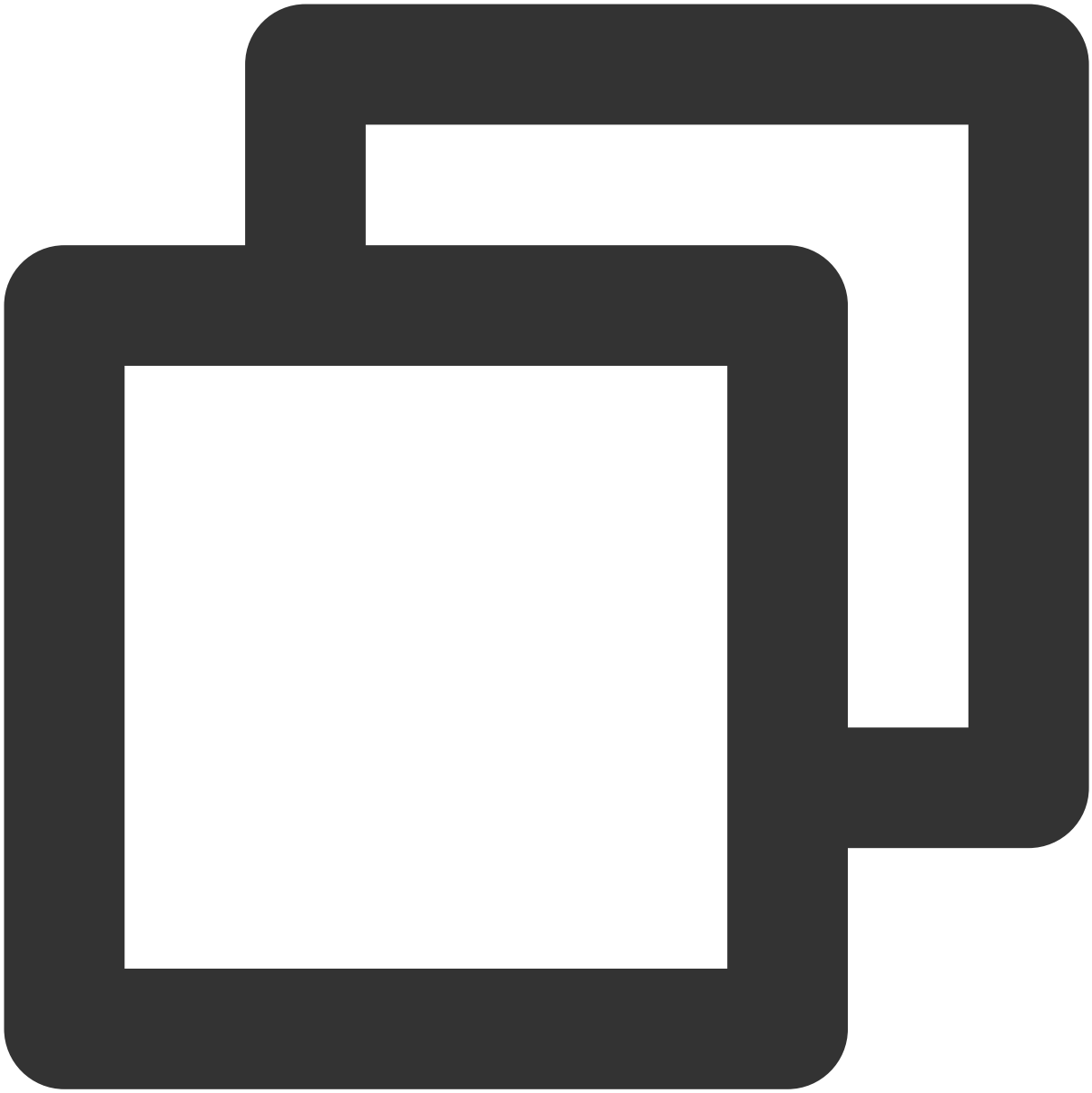

```
GET /?versions&prefix=example-folder-1%2F&delimiter=%2F HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 10 Dec 2020 07:04:03 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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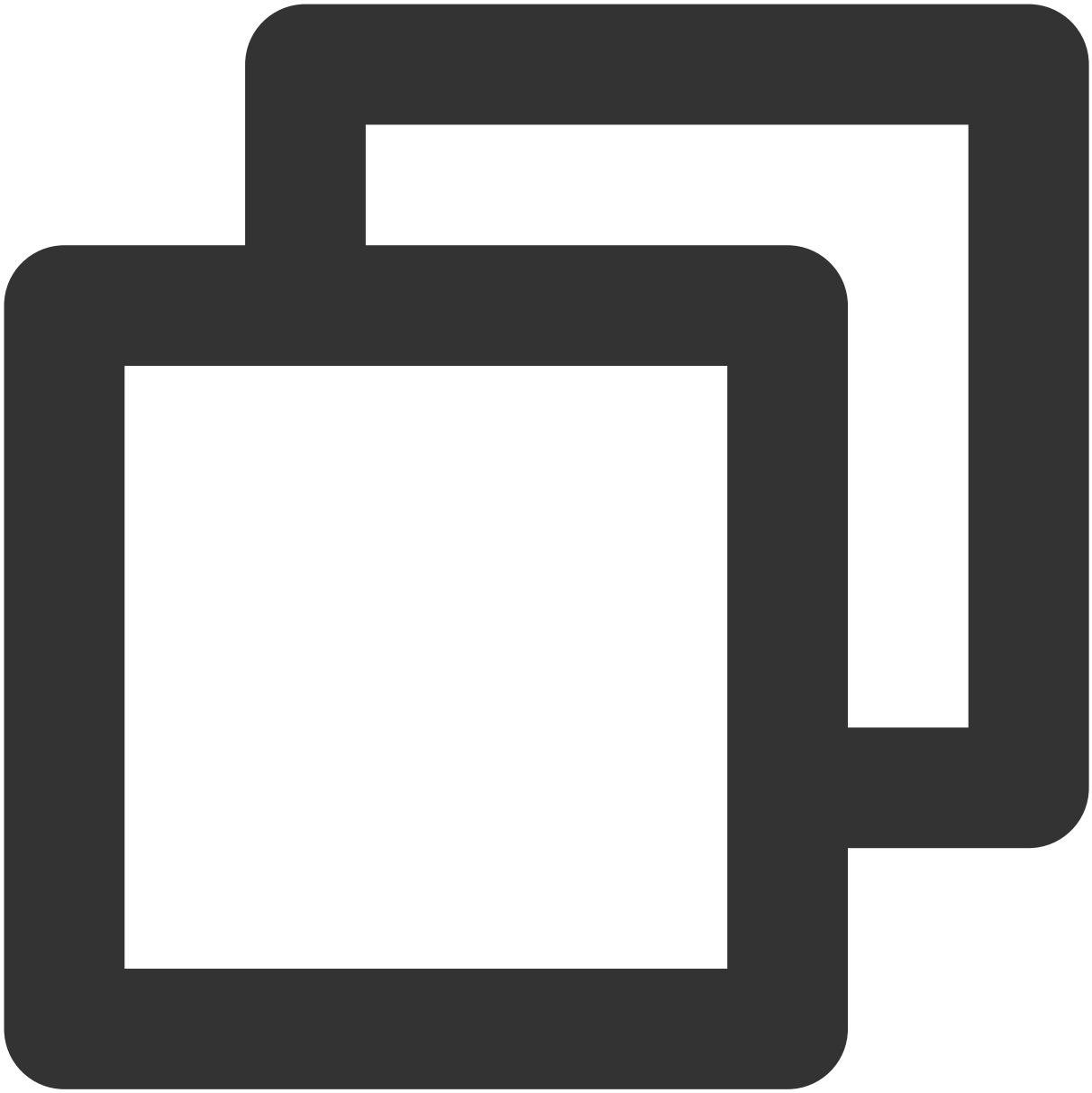

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1960
Connection: close
Date: Thu, 10 Dec 2020 07:04:03 GMT
Server: tencent-cos
x-cos-request-id: NWZkMWM4NjNfZWVjODJhMDlfNTNmN18xNWNj****



<ListVersionsResult>
```

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```
<Name>examplebucket-1250000000</Name>
<Prefix>example-folder-1/</Prefix>
<KeyMarker/>
<VersionIdMarker/>
<MaxKeys>1000</MaxKeys>
<IsTruncated>false</IsTruncated>
<Delimiter>/</Delimiter>
<CommonPrefixes>
    <Prefix>example-folder-1/sub-folder-1/</Prefix>
</CommonPrefixes>
<CommonPrefixes>
    <Prefix>example-folder-1/sub-folder-2/</Prefix>
</CommonPrefixes>
<DeleteMarker>
    <Key>example-folder-1/example-object-1.jpg</Key>
    <VersionId>MTg0NDUxMzY0ODk4NzYzNjE4NzA</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T07:03:53.000Z</LastModified>
    <Owner>
        <ID>1250000000</ID>
        <DisplayName>1250000000</DisplayName>
    </Owner>
</DeleteMarker>
<Version>
    <Key>example-folder-1/example-object-1.jpg</Key>
    <VersionId>MTg0NDUxMzY0ODk4ODY2NTAzOTY</VersionId>
    <IsLatest>false</IsLatest>
    <LastModified>2020-12-10T07:03:42.000Z</LastModified>
    <ETag>&quot;f173c1199e3d3b53dd91223cae16fb42&quot;</ETag>
    <Size>37</Size>
    <StorageClass>STANDARD</StorageClass>
    <Owner>
        <ID>1250000000</ID>
        <DisplayName>1250000000</DisplayName>
    </Owner>
</Version>
<Version>
    <Key>example-folder-1/example-object-2.jpg</Key>
    <VersionId>MTg0NDUxMzY0ODk4NzYzNzc2ODY</VersionId>
    <IsLatest>true</IsLatest>
    <LastModified>2020-12-10T07:03:53.000Z</LastModified>
    <ETag>&quot;f52cc0bc2042d201b852385927bcab95&quot;</ETag>
    <Size>40</Size>
    <StorageClass>STANDARD</StorageClass>
    <Owner>
        <ID>1250000000</ID>
        <DisplayName>1250000000</DisplayName>
```

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```
                </Owner>
            </Version>
            <Version>
                <Key>example-folder-1/example-object-2.jpg</Key>
                <VersionId>MTg0NDUxMzY0ODk4ODY2NjQ2NDc</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-10T07:03:42.000Z</LastModified>
                <ETag>&amp;quot;7b3be6c39746a970d628e6ab9f250342&amp;quot;</ETag>
                <Size>40</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
</ListVersionsResult>
```

Example 7. Obtaining the first page of keys when there are more than one page (this example specifies `max-keys`. If not specified, the value `1000` is used by default. The sum of `Version` and `DeleteMarker` cannot exceed the value of `max-keys`)

Request

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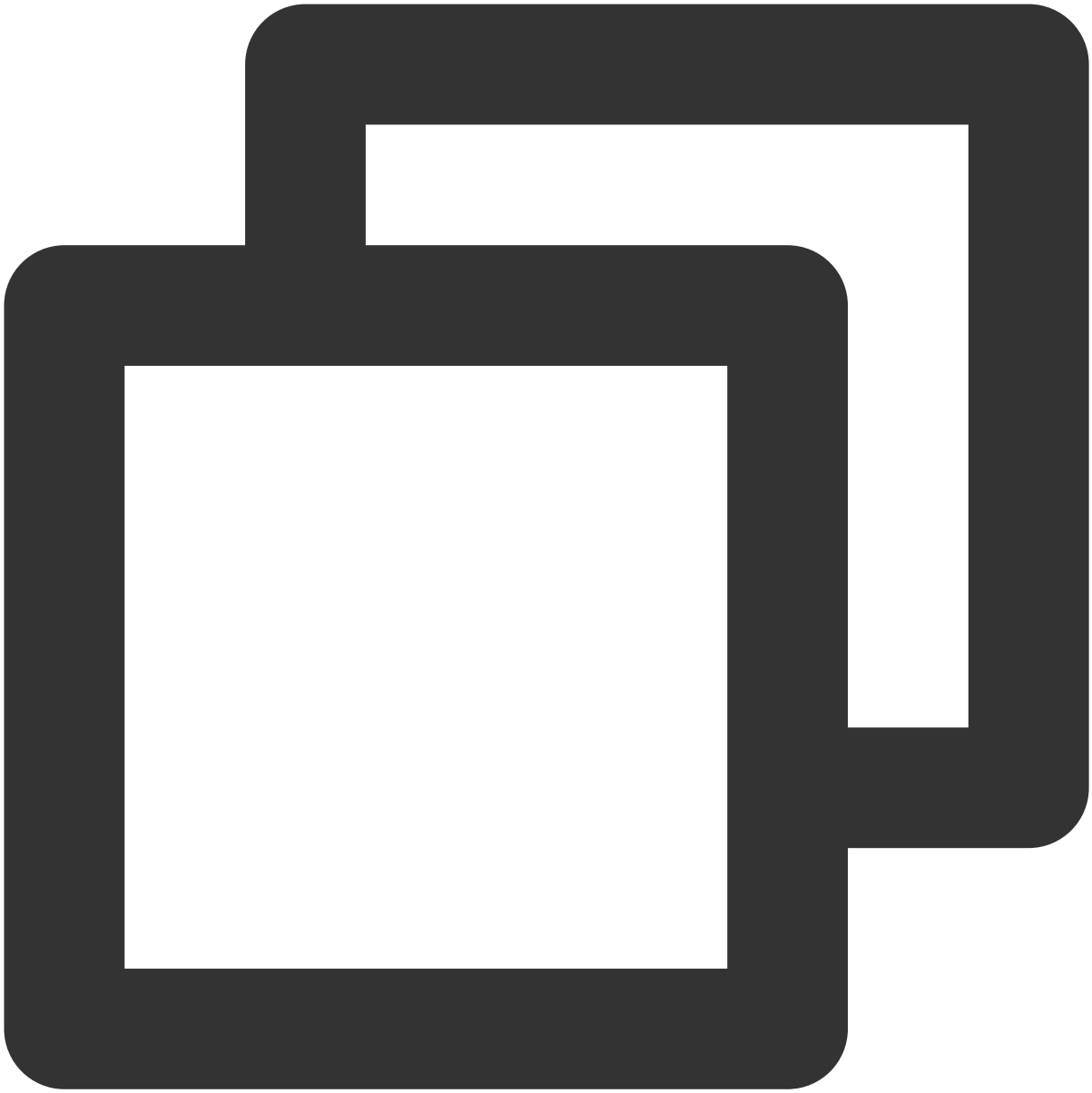

```
GET /?versions&max-keys=3 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 08 Dec 2020 12:46:40 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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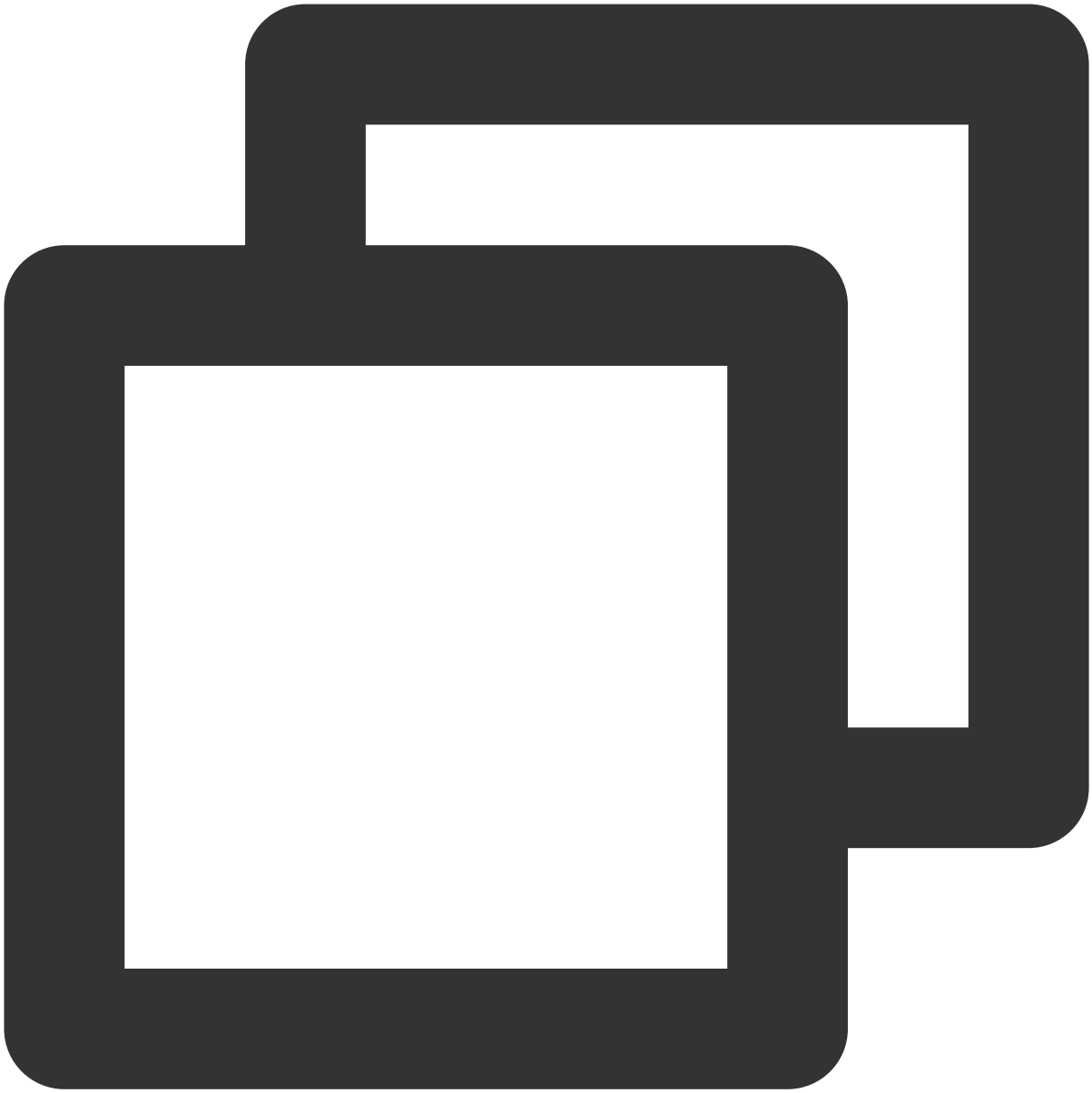

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1390
Connection: close
Date: Tue, 08 Dec 2020 12:46:40 GMT
Server: tencent-cos
x-cos-request-id: NWZjZjc1YjBfYjBhODBiMDlfZDU5Yl9jYjBl****



<ListVersionsResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <KeyMarker/>
            <VersionIdMarker/>
            <MaxKeys>3</MaxKeys>
            <IsTruncated>true</IsTruncated>
            <NextKeyMarker>example-object-2.jpg</NextKeyMarker>
            <NextVersionIdMarker>MTg0NDUxMzY2NDIxMjk3MzMwOTM</NextVersionIdMarker>
            <Version>
                <Key>example-object-1.jpg</Key>
                <VersionId>MTg0NDUxMzY2NDIxNTAwOTk4NzA</VersionId>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-08T12:45:59.000Z</LastModified>
                <ETag>&quot;15f0f671f04af108023b5603bea2bfda&quot;</ETag>
                <Size>23</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
            <Version>
                <Key>example-object-1.jpg</Key>
                <VersionId>MTg0NDUxMzY2NDIxNjAyODcyNzk</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-08T12:45:49.000Z</LastModified>
                <ETag>&quot;601389434817e2781d8efb35c0e44717&quot;</ETag>
                <Size>23</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
            <DeleteMarker>
                <Key>example-object-2.jpg</Key>
                <VersionId>MTg0NDUxMzY2NDIxMjk3MzMwOTM</VersionId>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-08T12:46:19.000Z</LastModified>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </DeleteMarker>
</ListVersionsResult>
```

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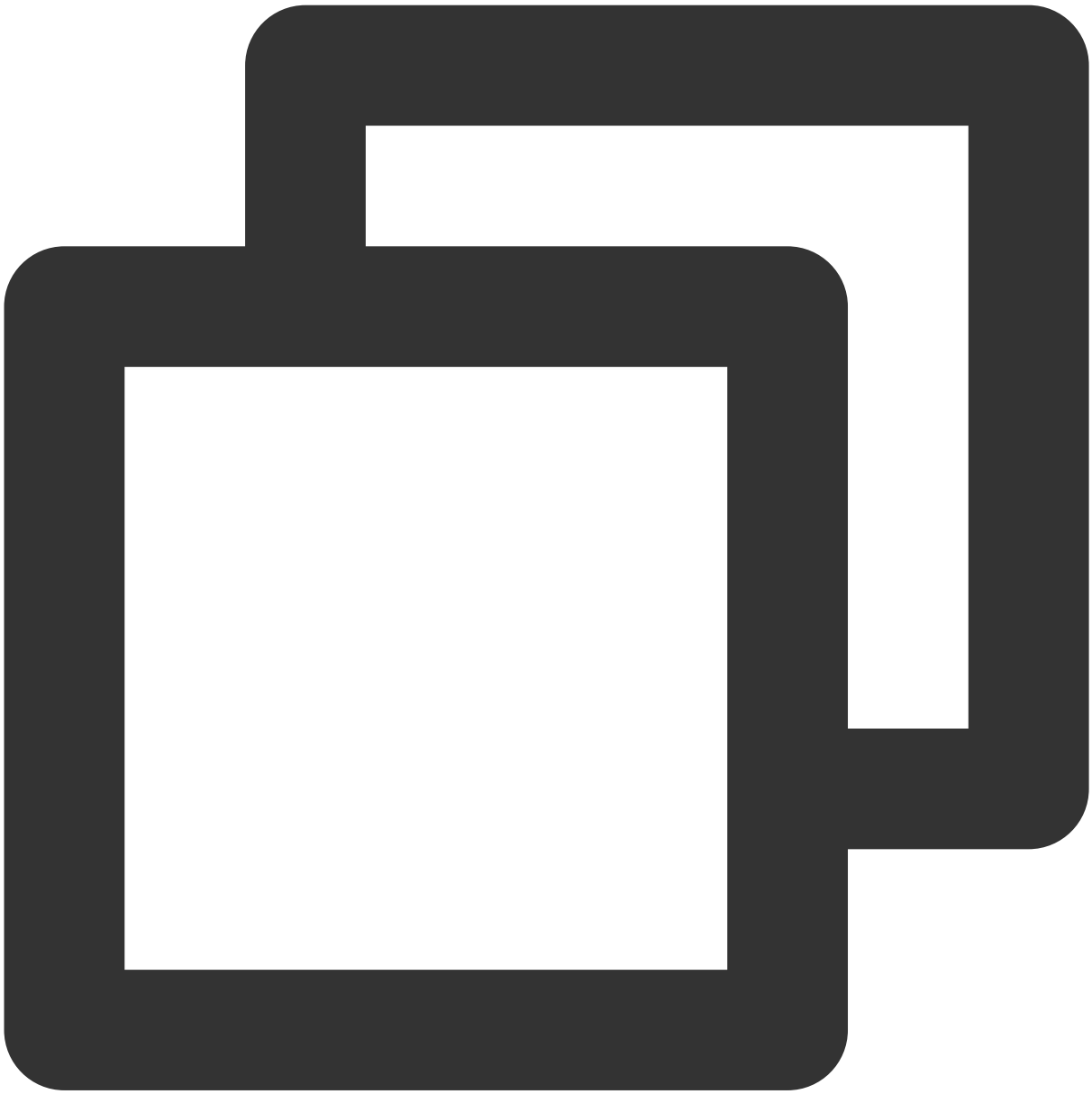
Example 8: Obtaining the subsequent pages with `key-marker` and `version-id-marker` specified (a continuity of example 7)

Request



```
GET /?versions&max-keys=3&key-marker=example-object-2.jpg&version-id-marker=MTg0NDU
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 08 Dec 2020 12:46:41 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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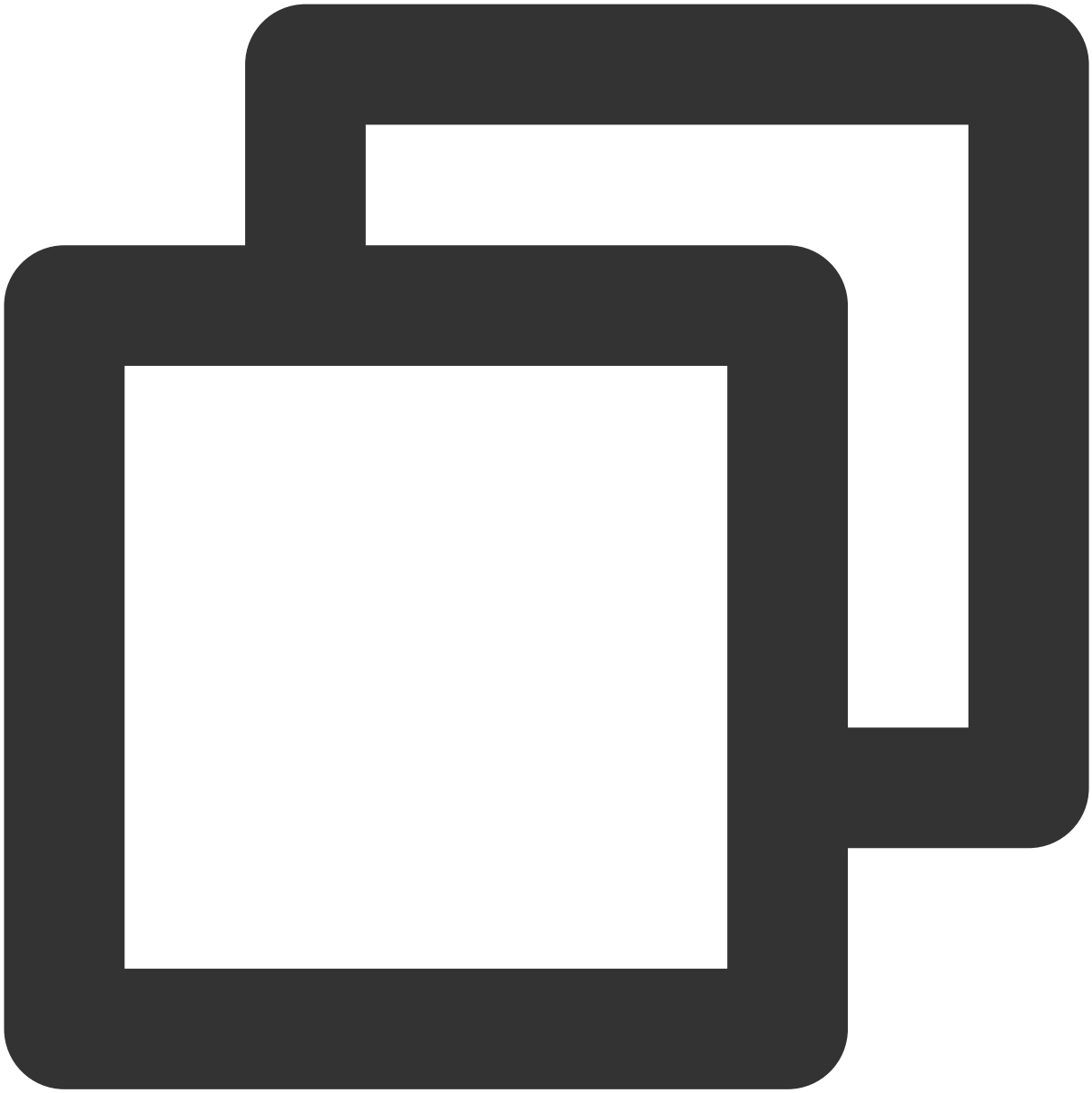
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1052
Connection: close
Date: Tue, 08 Dec 2020 12:46:41 GMT
Server: tencent-cos
x-cos-request-id: NWZjZjc1YjFfNjljMDBiMDlfNjQwOV8xYjM2****
```

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```
<ListVersionsResult>
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <KeyMarker>example-object-2.jpg</KeyMarker>
            <VersionIdMarker>MTg0NDUxMzY2NDIxMjk3MzMwOTM</VersionIdMarker>
            <MaxKeys>3</MaxKeys>
            <IsTruncated>false</IsTruncated>
            <Version>
                <Key>example-object-2.jpg</Key>
                <VersionId>MTg0NDUxMzY2NDIxMzk5MDk1NzU</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-08T12:46:09.000Z</LastModified>
                <ETag>&amp;quot;51370fc64b79d0d3c7c609635be1c41f&amp;quot;</ETag>
                <Size>20</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
            <Version>
                <Key>example-object-3.jpg</Key>
                <VersionId>MTg0NDUxMzY2NDIxMTk1NTEyNDI</VersionId>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-08T12:46:30.000Z</LastModified>
                <ETag>&amp;quot;b2f1d893c5fde000ee8ea6eca18ed81f&amp;quot;</ETag>
                <Size>20</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
</ListVersionsResult>
```

Example 9. Specifying the object to start with using the `key-marker` parameter but not the `version-id-marker` parameter (a continuity of example 7)

Request

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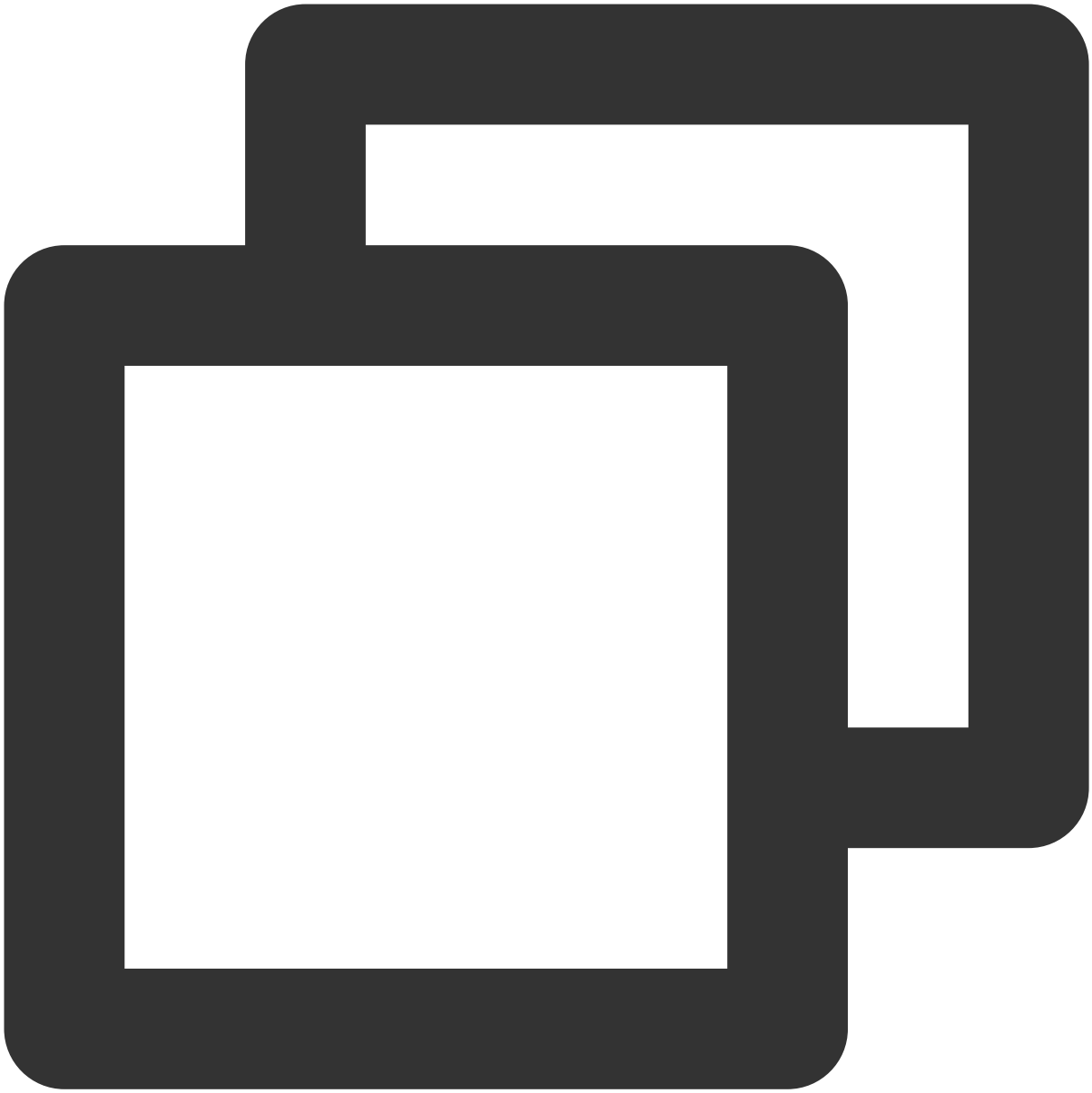

```
GET /?versions&max-keys=3&key-marker=example-object-2.jpg HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 08 Dec 2020 12:46:41 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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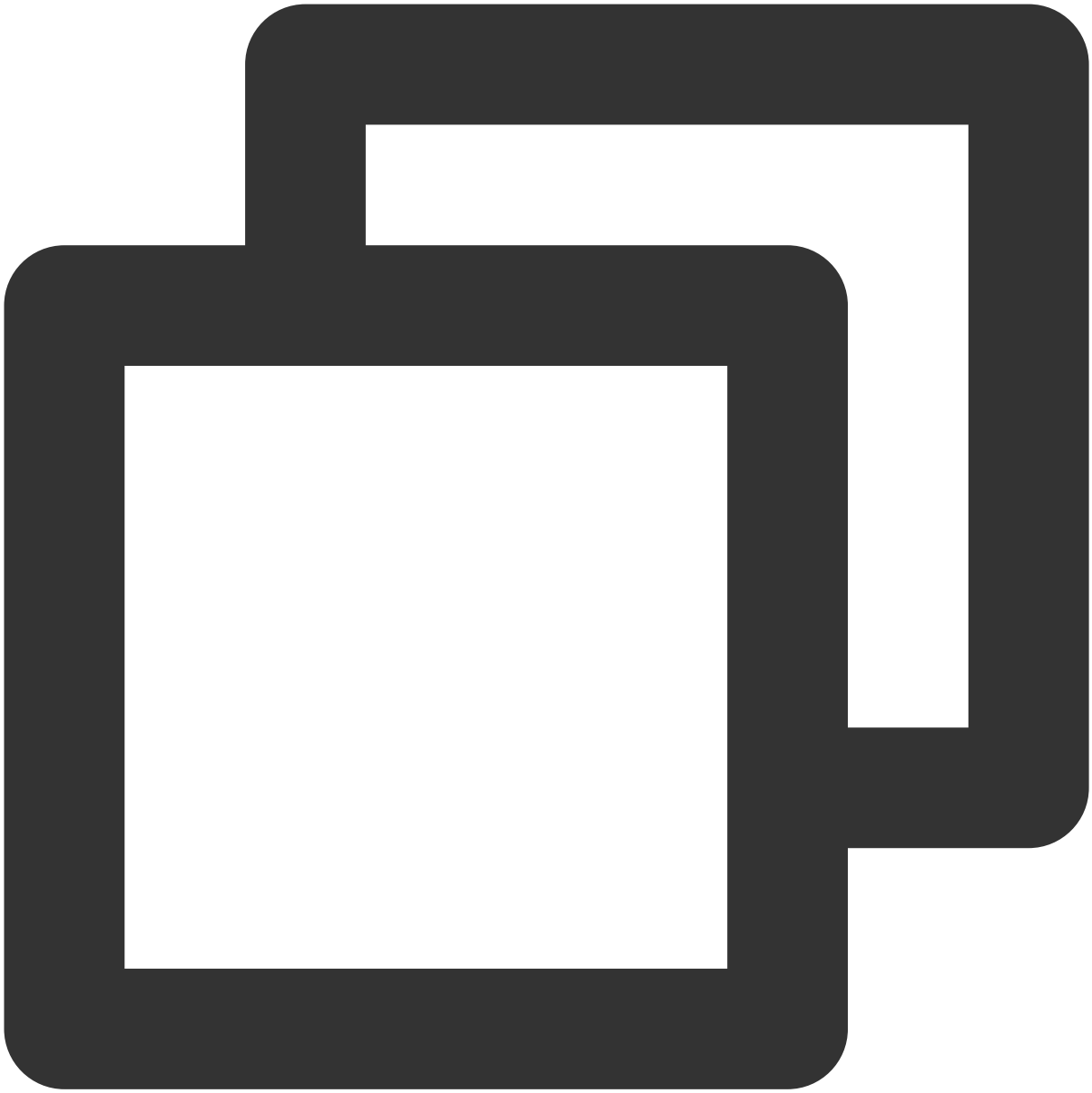

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 610
Connection: close
Date: Tue, 08 Dec 2020 12:46:42 GMT
Server: tencent-cos
x-cos-request-id: NWZjZjc1YjJfZGZjMTBiMDlfNzAyYl8xMzkx****



<ListVersionsResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <KeyMarker>example-object-2.jpg</KeyMarker>
            <VersionIdMarker/>
            <MaxKeys>3</MaxKeys>
            <IsTruncated>false</IsTruncated>
            <Version>
                <Key>example-object-3.jpg</Key>
                <VersionId>MTg0NDUxMzY2NDIxMTk1NTEyNDI</VersionId>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-08T12:46:30.000Z</LastModified>
                <ETag>&quot;b2f1d893c5fde000ee8ea6eca18ed81f&quot;</ETag>
                <Size>20</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                        <ID>1250000000</ID>
                        <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
</ListVersionsResult>
```

Example 10. Obtaining the first page of keys when there are more than one page (with `delimiter` specified and the sum of `CommonPrefixes`, `Version`, and `DeleteMarker` not exceeding the value of `max-keys`)

Request

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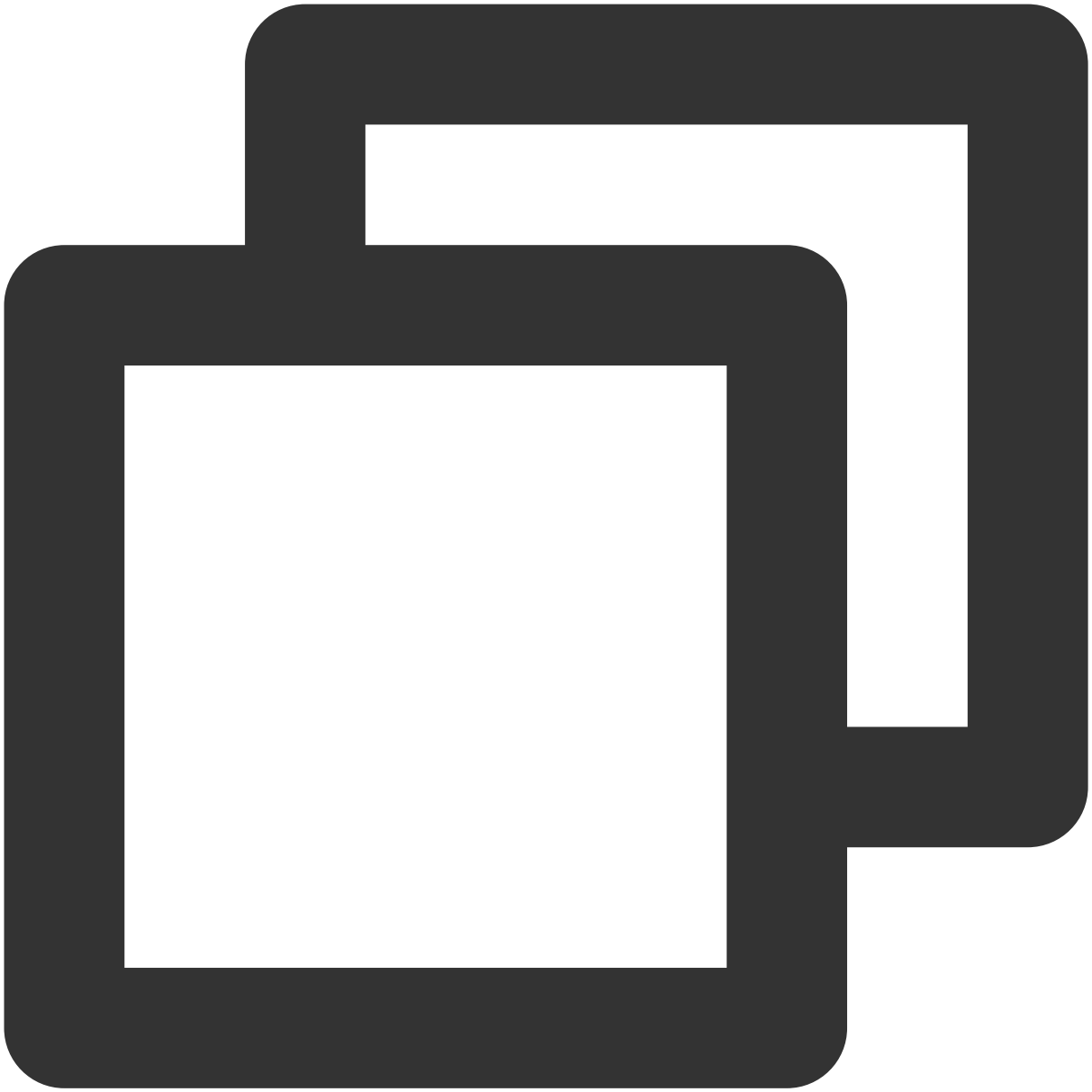

```
GET /?versions&delimiter=%2F&max-keys=3 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 09 Dec 2020 13:40:24 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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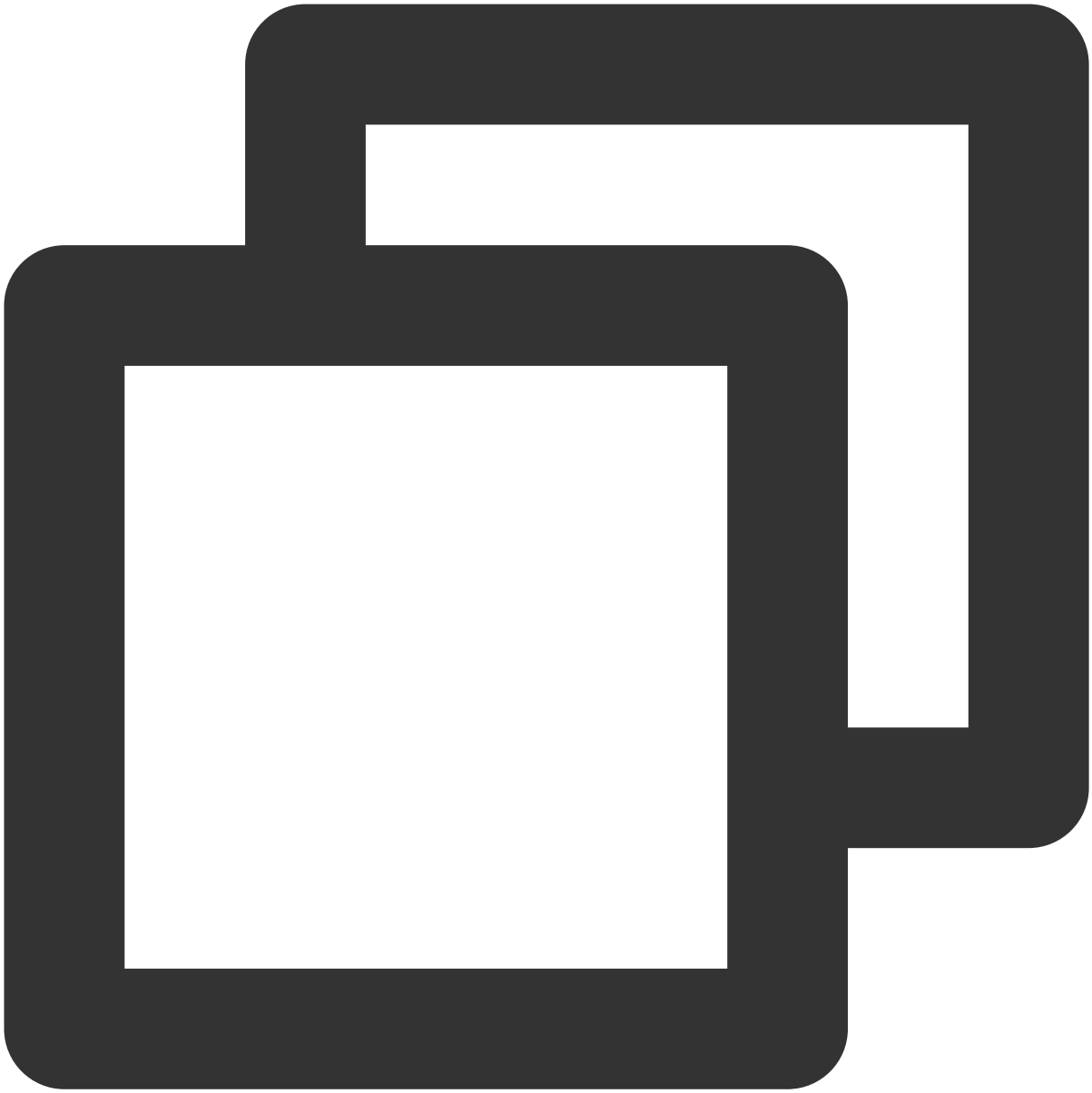

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 503
Connection: close
Date: Wed, 09 Dec 2020 13:40:24 GMT
Server: tencent-cos
x-cos-request-id: NWZkMGQzYzhfYmIwMmEwOV83OGU4XzZj****

<ListVersionsResult>
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
```

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```
            <KeyMarker/>
            <VersionIdMarker/>
            <MaxKeys>3</MaxKeys>
            <IsTruncated>true</IsTruncated>
            <NextKeyMarker>example-folder-3/</NextKeyMarker>
            <NextVersionIdMarker/>
            <Delimiter>/</Delimiter>
            <CommonPrefixes>
                <Prefix>example-folder-1/</Prefix>
            </CommonPrefixes>
            <CommonPrefixes>
                <Prefix>example-folder-2/</Prefix>
            </CommonPrefixes>
            <CommonPrefixes>
                <Prefix>example-folder-3/</Prefix>
            </CommonPrefixes>
</ListVersionsResult>
```

Example 11. Obtaining the subsequent pages with `delimiter` specified and `version-id-marker` left empty (as the value of `NextVersionIdMarker` is empty on the first page) (a continuity of example 10)

Request

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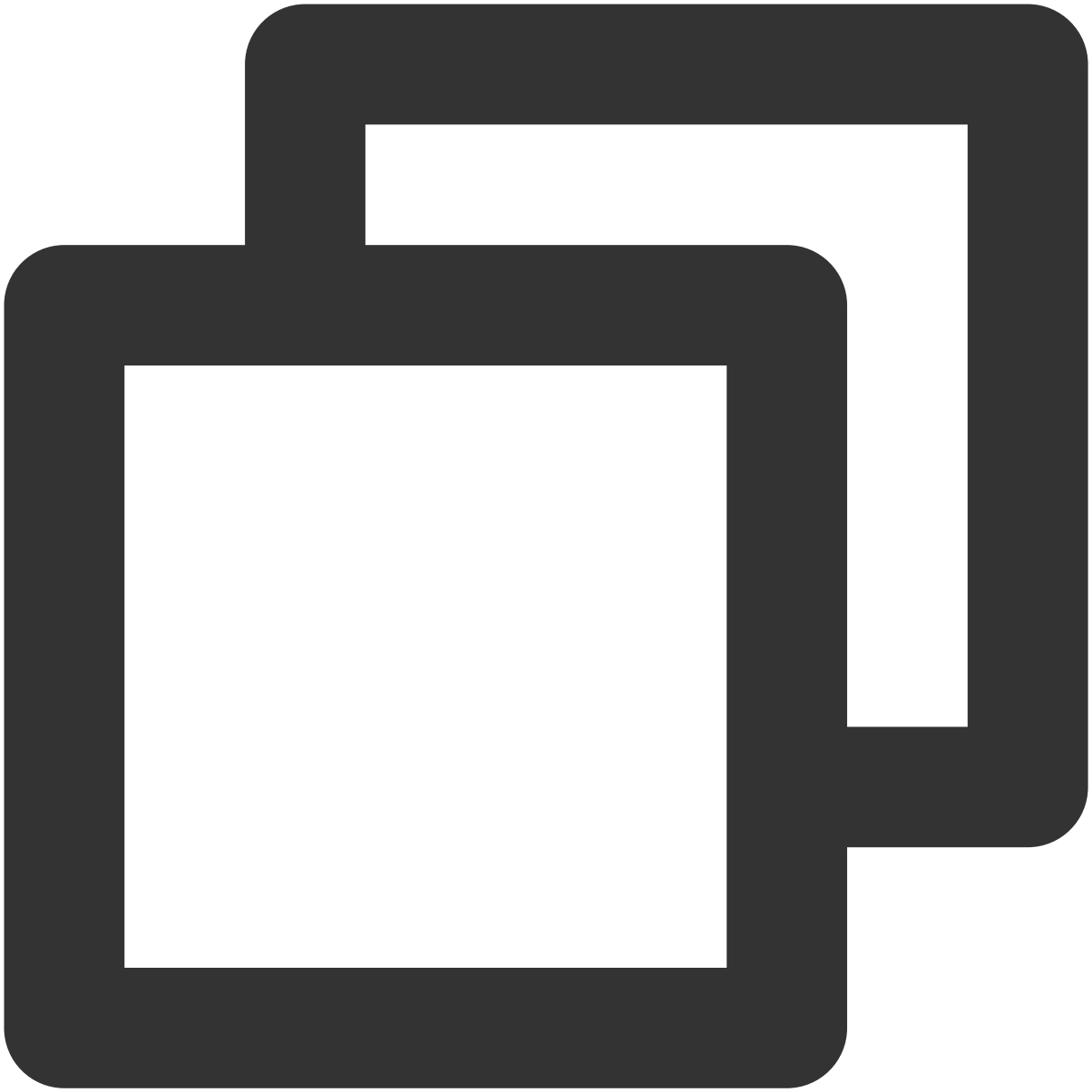

```
GET /?versions&delimiter=%2F&max-keys=3&key-marker=example-folder-3%2F&version-id-m
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 09 Dec 2020 14:02:32 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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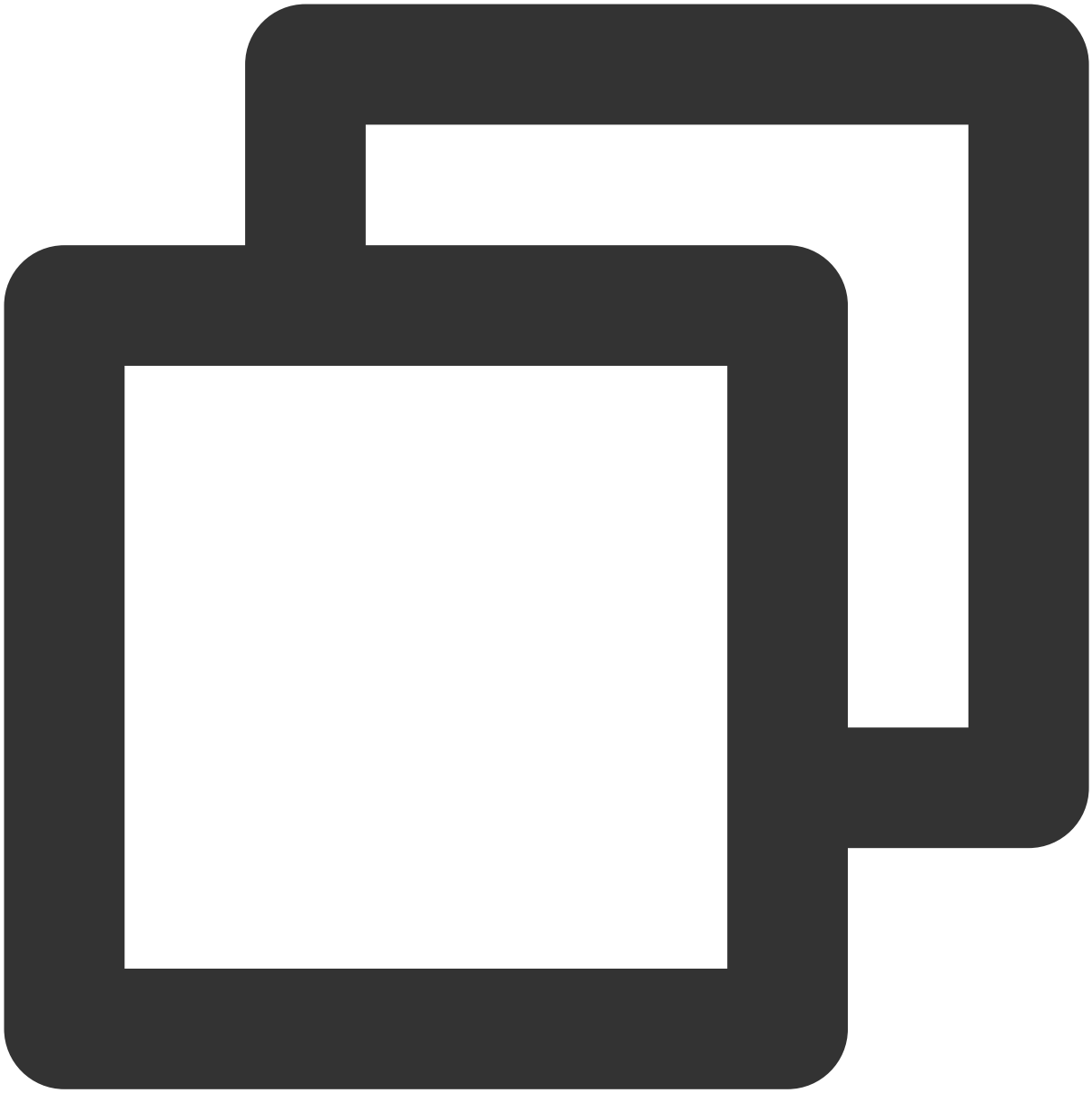

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1115
Connection: close
Date: Wed, 09 Dec 2020 14:02:32 GMT
Server: tencent-cos
x-cos-request-id: NWZkMGQ4ZjhfZmVhODBiMDlfMTI3NzVfMTBj****



<ListVersionsResult>
```

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```
            <Name>examplebucket-1250000000</Name>
            <Prefix/>
            <KeyMarker>example-folder-3/</KeyMarker>
            <VersionIdMarker/>
            <MaxKeys>3</MaxKeys>
            <IsTruncated>true</IsTruncated>
            <NextKeyMarker>example-object.jpg</NextKeyMarker>
            <NextVersionIdMarker>MTg0NDUxMzY1NTExNzc4NTYzMTk</NextVersionIdMarker>
            <Delimiter>/</Delimiter>
            <CommonPrefixes>
                <Prefix>example-folder-4/</Prefix>
            </CommonPrefixes>
            <Version>
                <Key>example-object.jpg</Key>
                <VersionId>MTg0NDUxMzY1NTExNjc2OTk4MjE</VersionId>
                <IsLatest>true</IsLatest>
                <LastModified>2020-12-09T14:02:21.000Z</LastModified>
                <ETag>&amp;quot;3979f6bb23f827d258be64cc0d8df5fb&amp;quot;</ETag>
                <Size>21</Size>
                <StorageClass>STANDARD</StorageClass>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </Version>
            <DeleteMarker>
                <Key>example-object.jpg</Key>
                <VersionId>MTg0NDUxMzY1NTExNzc4NTYzMTk</VersionId>
                <IsLatest>false</IsLatest>
                <LastModified>2020-12-09T14:02:11.000Z</LastModified>
                <Owner>
                    <ID>1250000000</ID>
                    <DisplayName>1250000000</DisplayName>
                </Owner>
            </DeleteMarker>
</ListVersionsResult>
```

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Access Control List (acl)
PUT Bucket acl

Last updated：2024-03-28 18:08:32

Overview

This API is used to write an access control list (ACL) for a bucket. You can set the ACL information through the `x-cos-acl` and `x-cos-grant-*` request headers or the request body in XML format.

Note:

You can set the ACL information either through request headers or through the request body.

`PUT Bucket acl` is an overwriting operation. The new ACL will overwrite the old one.

With this API, you can grant permissions to Tencent Cloud CAM root accounts, anonymous users, and sub-users. To grant permissions to user groups, see Associating/Unassociating Policy with/from User Group. For more information about ACL, see ACL Overview.

To call this API, you need to have permission to write ACL to the bucket.

Request

Sample request

Sample 1

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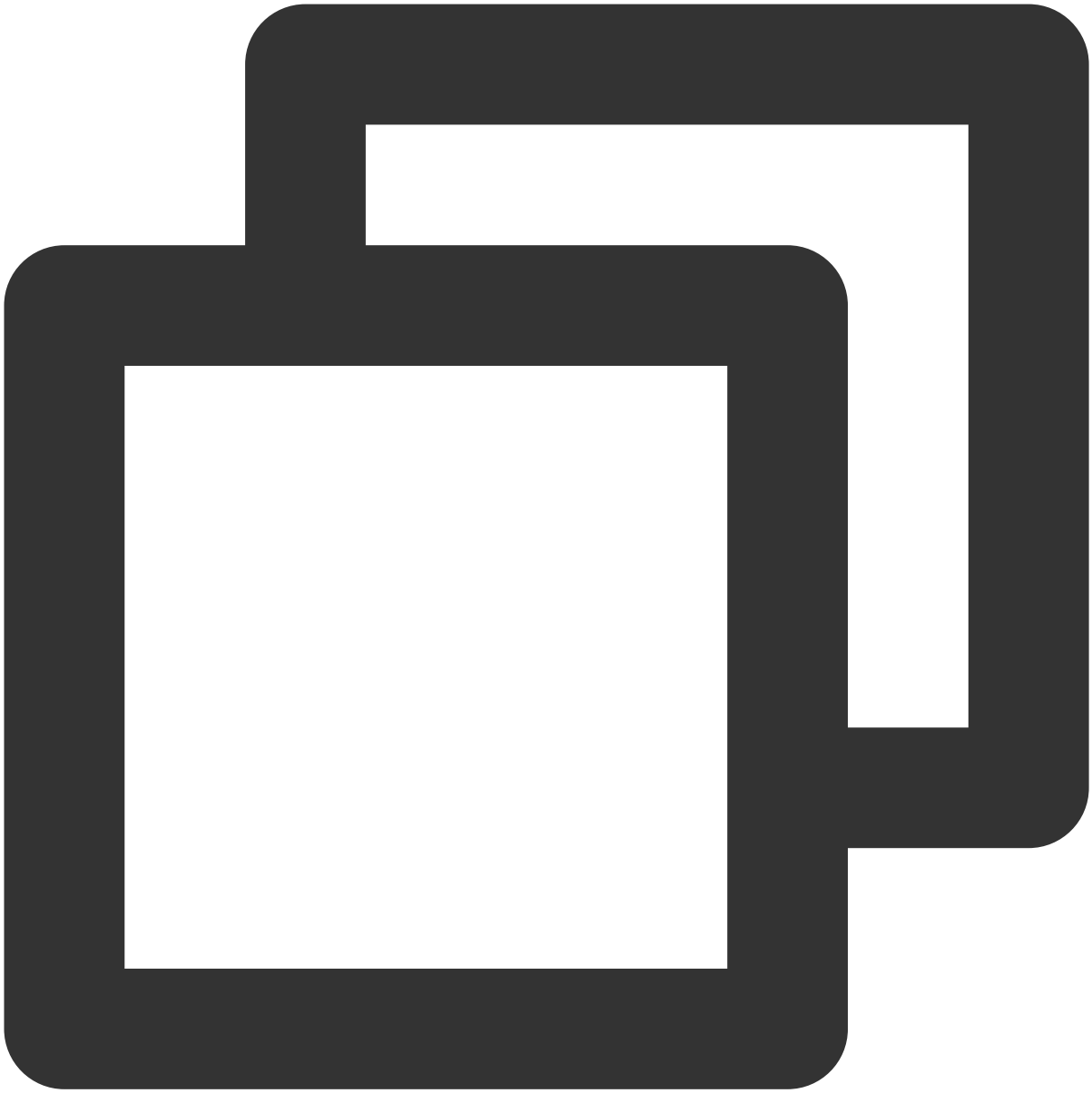

```
PUT /?acl HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Length: 0
Authorization: Auth String
```

Sample 2

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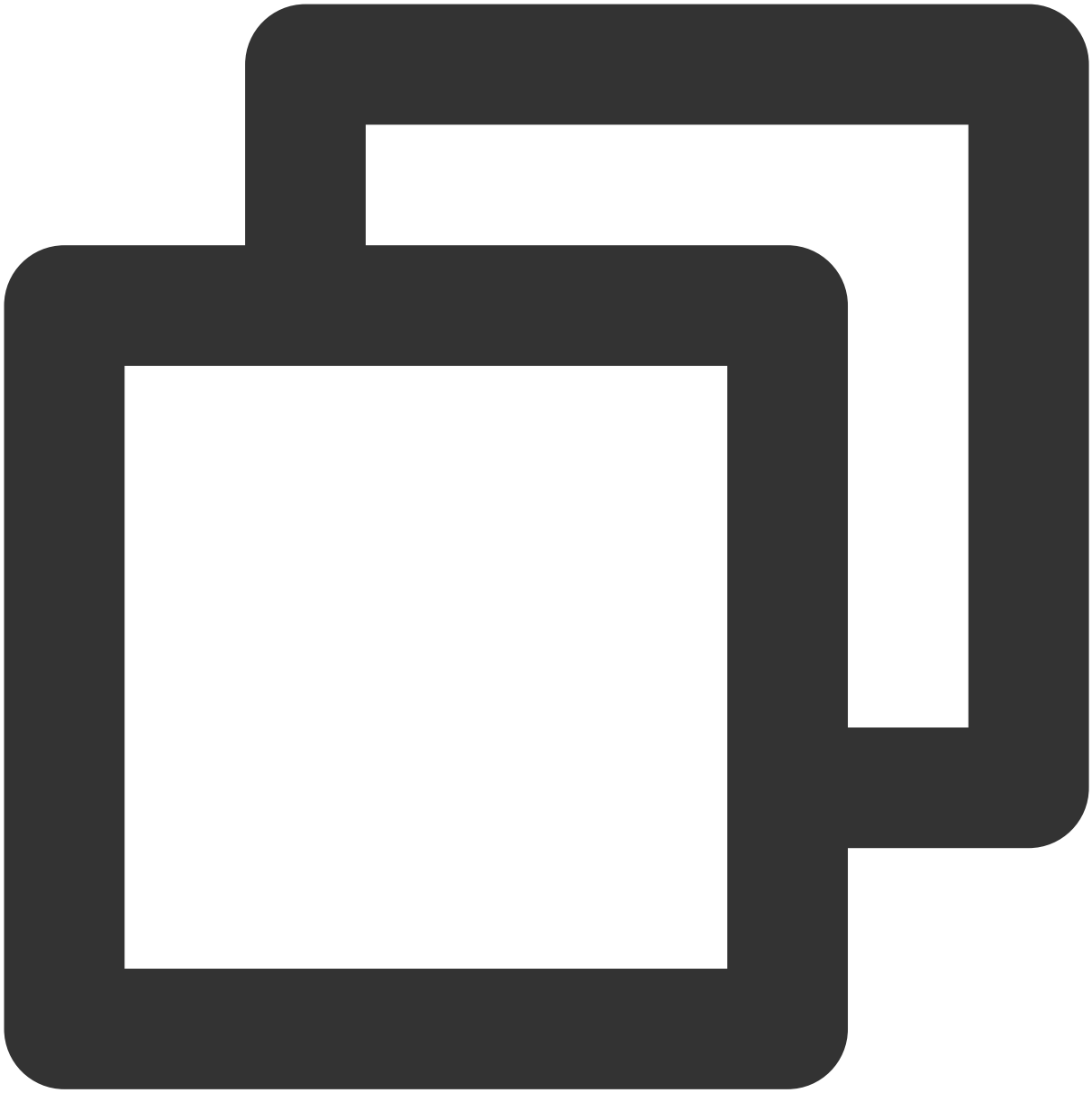

```
PUT /?acl HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String

[Request Body]
```

Note:

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In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

In addition to common request headers, this API also supports the following request headers. For more information about common request headers, please see Common Request Headers.

Header	Description	Type	Required
x-cos-acl	Defines the access control list (ACL) attribute of the bucket. For the enumerated values such as `private` (default) and `public-read`, see the **Preset ACL** section in ACL Overview.	Enum	No
x-cos-grant-read	Grants a user read access to a bucket in the format of `id="[OwnerUin]"` for root accounts such as `id="100000000001"` or `id="[OwnerUin/GrantsUin]"` for sub-accounts such as `id="100000000001/100000000011"`. You can separate multiple users by comma, such as `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-write	Grants a user write access to a bucket in the format of `id="[OwnerUin]"` for root accounts such as `id="100000000001"` or `id="[OwnerUin/GrantsUin]"` for sub-accounts such as `id="100000000001/100000000011"`. You can separate multiple users by comma, such as `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-read-acp	Grants a user read access to a bucket ACL in the format of `id="[OwnerUin]"` for root accounts such as `id="100000000001"` or `id="[OwnerUin/GrantsUin]"` for sub-accounts such as `id="100000000001/100000000011"`. You can separate multiple users by comma, such as `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-	Grants a user write access to a bucket ACL in the format of `id="`	string	No

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write-acp	`[OwnerUin]"` for root accounts such as `id="100000000001"` or `id="[OwnerUin/GrantsUin]"` for sub-accounts such as `id="100000000001/100000000011"`. You can separate multiple users by comma, such as `id="100000000001",id="100000000002"`.		
x-cos-grant-full-control	Grants a user full access to a bucket in the format of `id="[OwnerUin]"` for root accounts such as `id="100000000001"` or `id="[OwnerUin/GrantsUin]"` for sub-accounts such as `id="100000000001/100000000011"`. You can separate multiple users by comma, such as `id="100000000001",id="100000000002"`.	string	No

Request body

The request body contains the **application/xml** data that includes information about the bucket owner and authorization.

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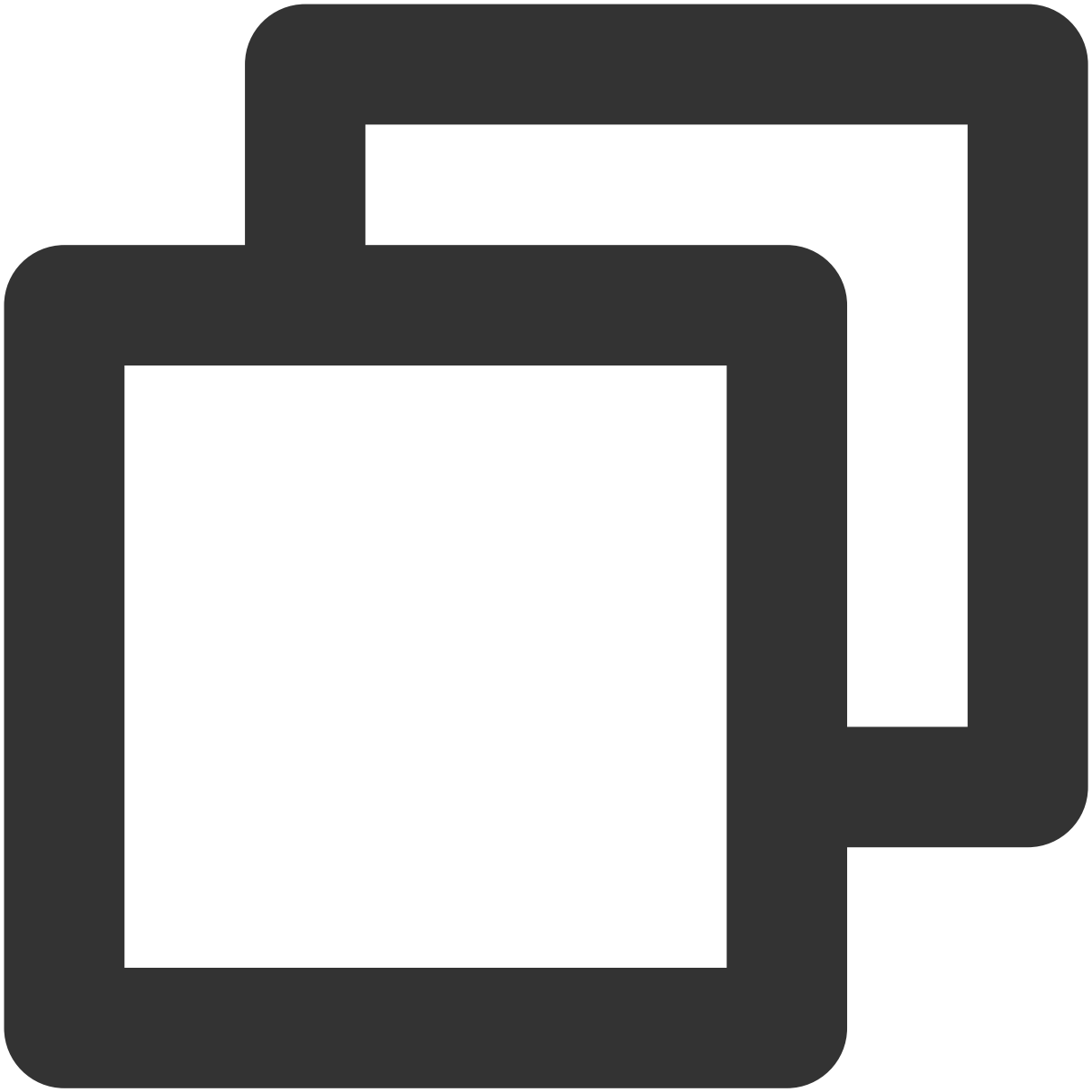

```
<AccessControlPolicy>
    <Owner>
        <ID>string</ID>
    </Owner>
    <AccessControlList>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <URI>string</URI>
            </Grantee>
            <Permission>Enum</Permission>
        </Grant>
```

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```
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <ID>string</ID>
            </Grantee>
            <Permission>Enum</Permission>
        </Grant>
    </AccessControlList>
</AccessControlPolicy>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
AccessControlPolicy	None	All request information about the `PUT Bucket acl` operation	Container	Yes

Content of `AccessControlPolicy`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Owner	AccessControlPolicy	Information about the bucket owner	Container	Yes
AccessControlList	AccessControlPolicy	Information about the grantee and permissions	Container	Yes

Content of `Owner`:

Node Name (Keyword)	Parent Node	Description	T
ID	AccessControlPolicy.Owner	Complete ID of the bucket owner in the format of `qcs::cam::uin/[OwnerUin]:uin/[OwnerUin]` Example: `qcs::cam::uin/100000000001:uin/100000000001`	s

Content of `AccessControlList`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Grant	AccessControlPolicy.AccessControlList	A single permission. Each `AccessControlList`	Container	Yes

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		supports up to 100 `Grant` nodes.		

Content of `AccessControlList.Grant`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Grantee	AccessControlPolicy.AccessControlList.Grant	Grantee information. `xsi:type` can be set to `Group` or `CanonicalUser`. If it's set to `Group`, the child node can only include `URI`. If it's set to `CanonicalUser`, the child node can only include `ID`.	Container	Yes
Permission	AccessControlPolicy.AccessControlList.Grant	Permission granted. For the enumerated values such as `WRITE` and `FULL_CONTROL`, please see **Actions on buckets** in ACL Overview	Enum	Yes

Content of `AccessControlList.Grant.Grantee`:

Node Name (Keyword)	Parent Node	Description
URI	AccessControlPolicy.AccessControlList.Grant.Grantee	Preset user group. For more information, p ACL Overview. Example: `http://cam.qcloud.com/` `http://cam.qcloud.com/groups/`
ID	AccessControlPolicy.AccessControlList.Grant.Grantee	Compete ID of the grantee in the format of `qcs::cam::uin/[OwnerUin]:uin/` Example: `qcs::cam::uin/10000000`

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Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Sample 1: configuring ACL through request headers

Request

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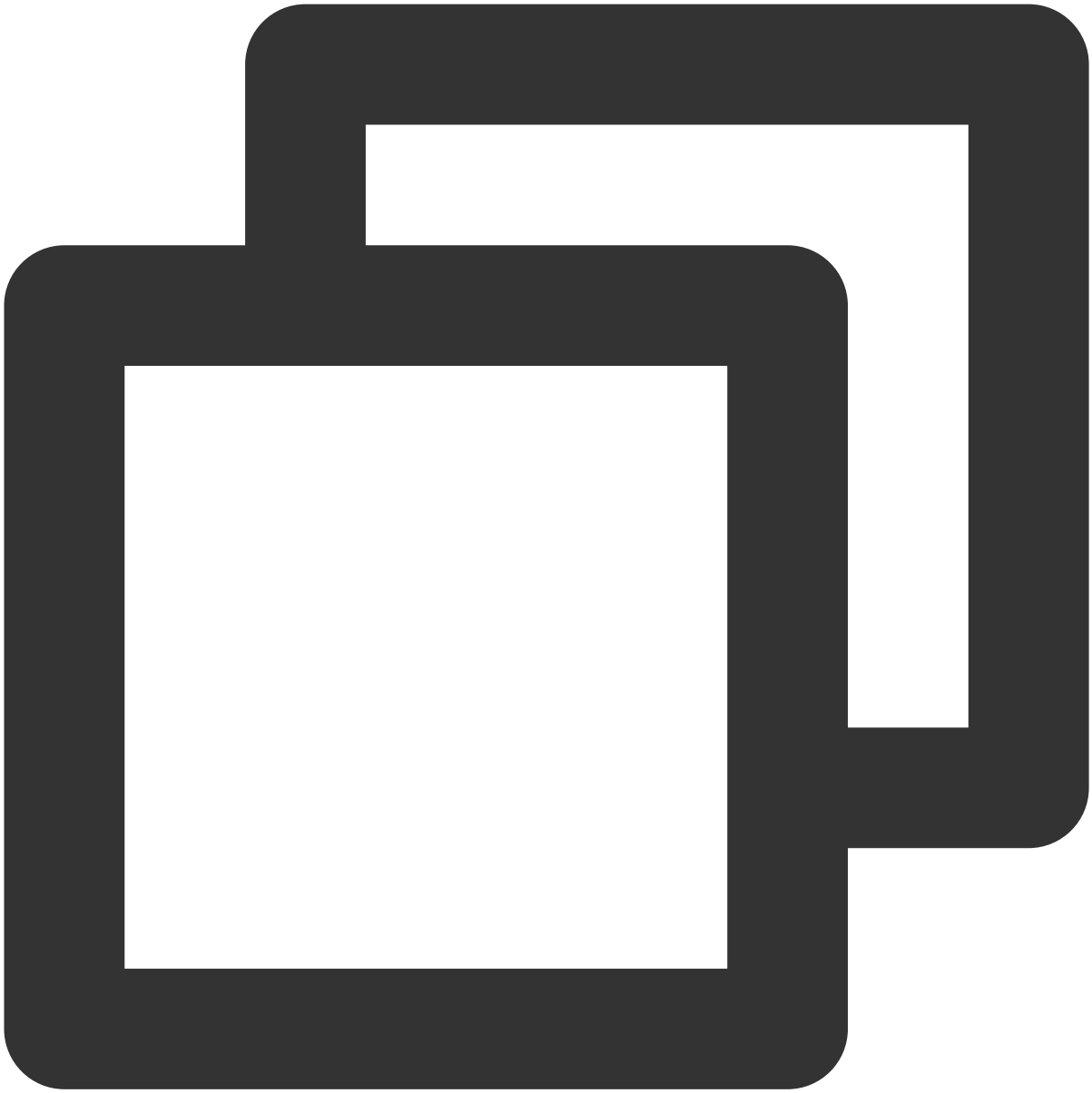

```
PUT /?acl HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Mon, 17 Jun 2019 08:30:12 GMT
x-cos-acl: public-read
x-cos-grant-write: id="100000000002"
x-cos-grant-read-acp: id="100000000002"
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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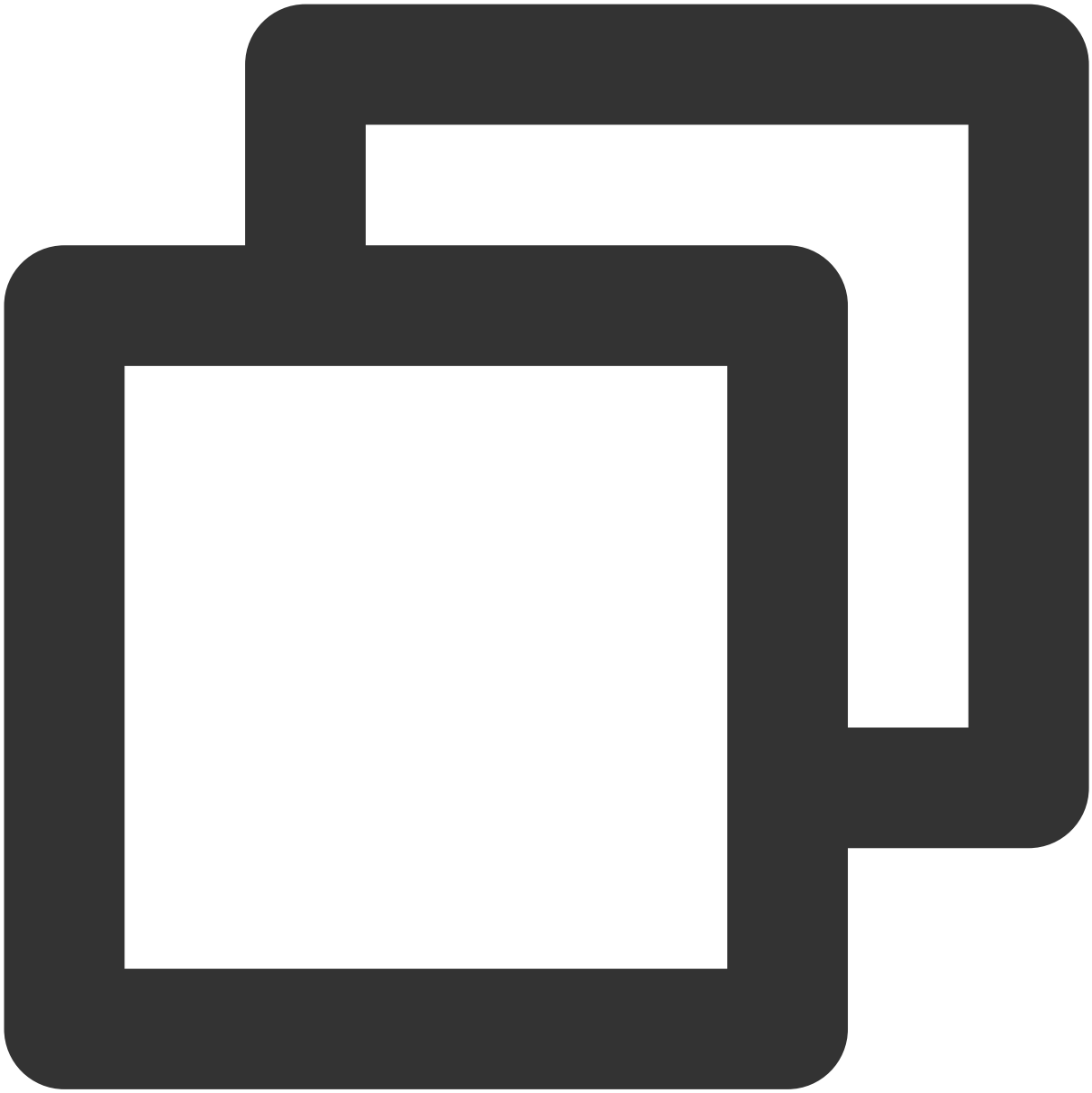
Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Mon, 17 Jun 2019 08:30:13 GMT
Server: tencent-cos
x-cos-request-id: NWQwNzRmOTRfODhjMjJhMDlfMWRlYl81Mzc0****
```

Sample 2: configuring ACL through the request body

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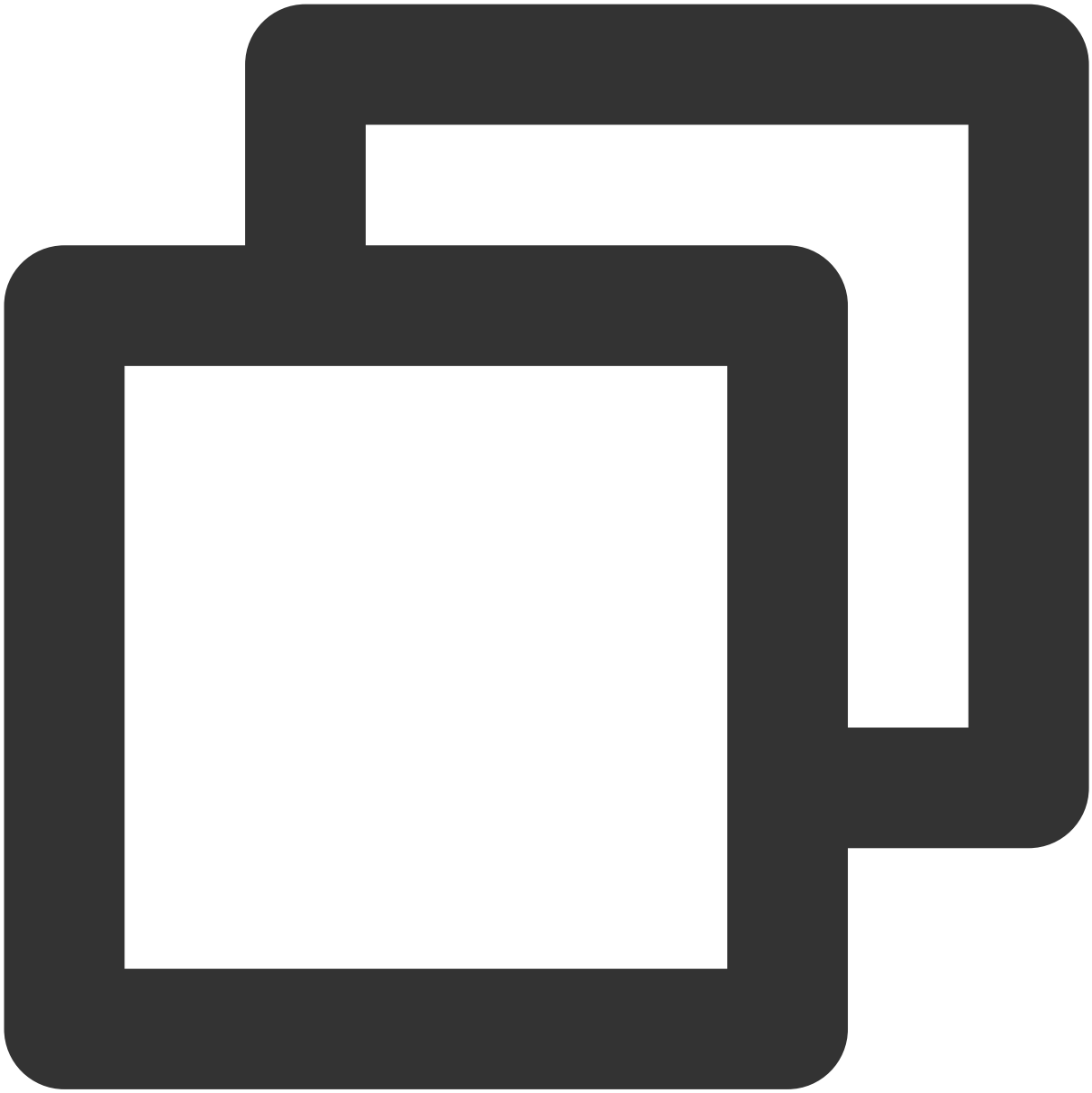
Request



```
PUT /?acl HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Mon, 17 Jun 2019 08:30:13 GMT
Content-Type: application/xml
Content-Length: 812
Content-MD5: 1qS+8SqnivarcO6Z11R0nw==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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```
<AccessControlPolicy>
    <Owner>
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
    </Owner>
    <AccessControlList>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <URI>http://cam.qcloud.com/groups/global/AllUsers</URI>
            </Grantee>
            <Permission>READ</Permission>
        </Grant>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <ID>qcs::cam::uin/100000000002:uin/100000000002</ID>
            </Grantee>
            <Permission>WRITE</Permission>
        </Grant>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <ID>qcs::cam::uin/100000000002:uin/100000000002</ID>
            </Grantee>
            <Permission>READ_ACP</Permission>
        </Grant>
    </AccessControlList>
</AccessControlPolicy>
```

Response

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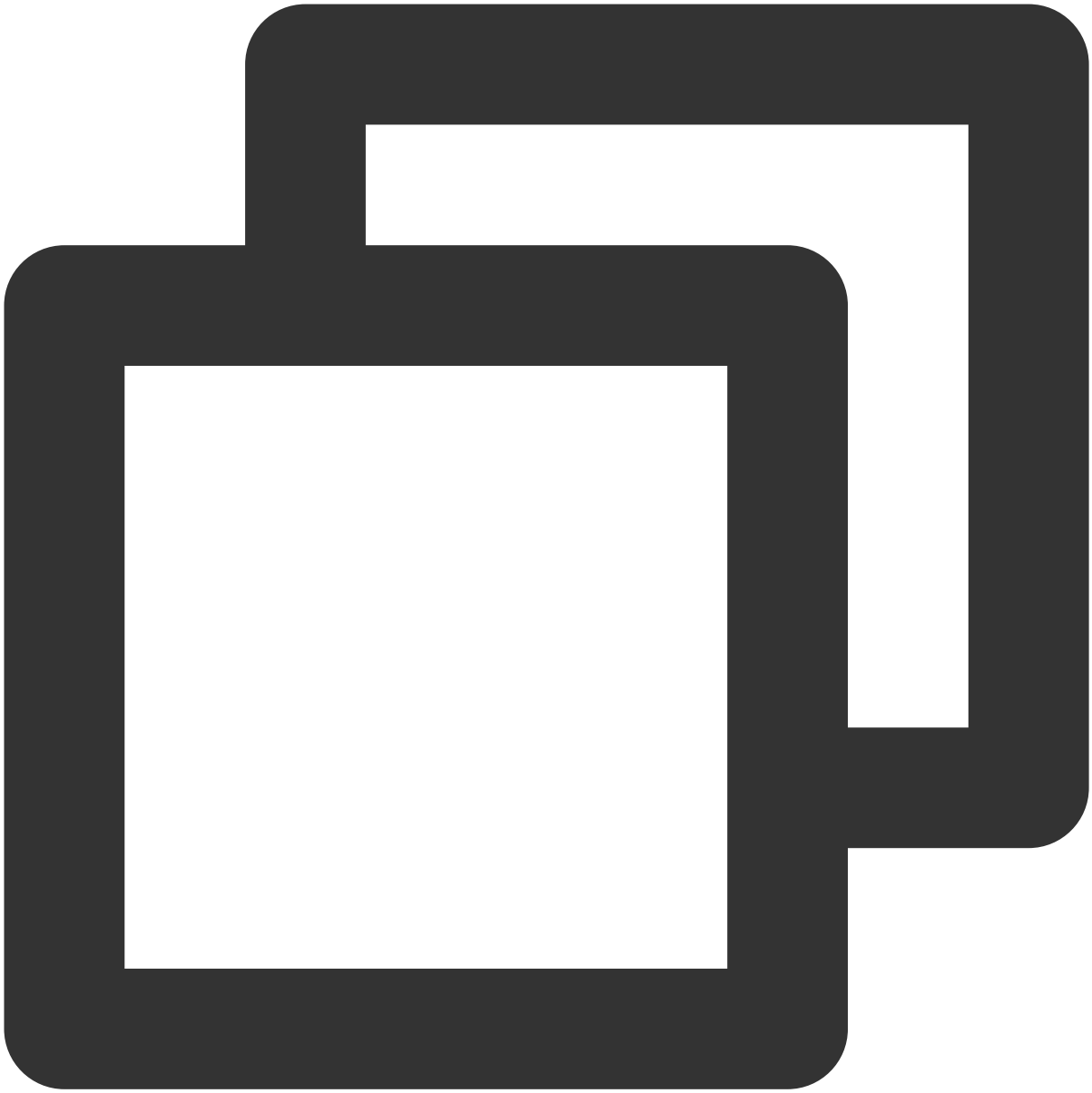

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Mon, 17 Jun 2019 08:30:13 GMT
Server: tencent-cos
x-cos-request-id: NWQwNzRmOTVfMzBjMDJhMDlfOTM3MF8yNzdj****
```

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GET Bucket acl

Last updated：2024-03-28 18:08:33

Overview

This API is used to query the access control list (ACL) of a bucket. To call this API, you need to have permission to read the ACL of the bucket.

Request

Sample request

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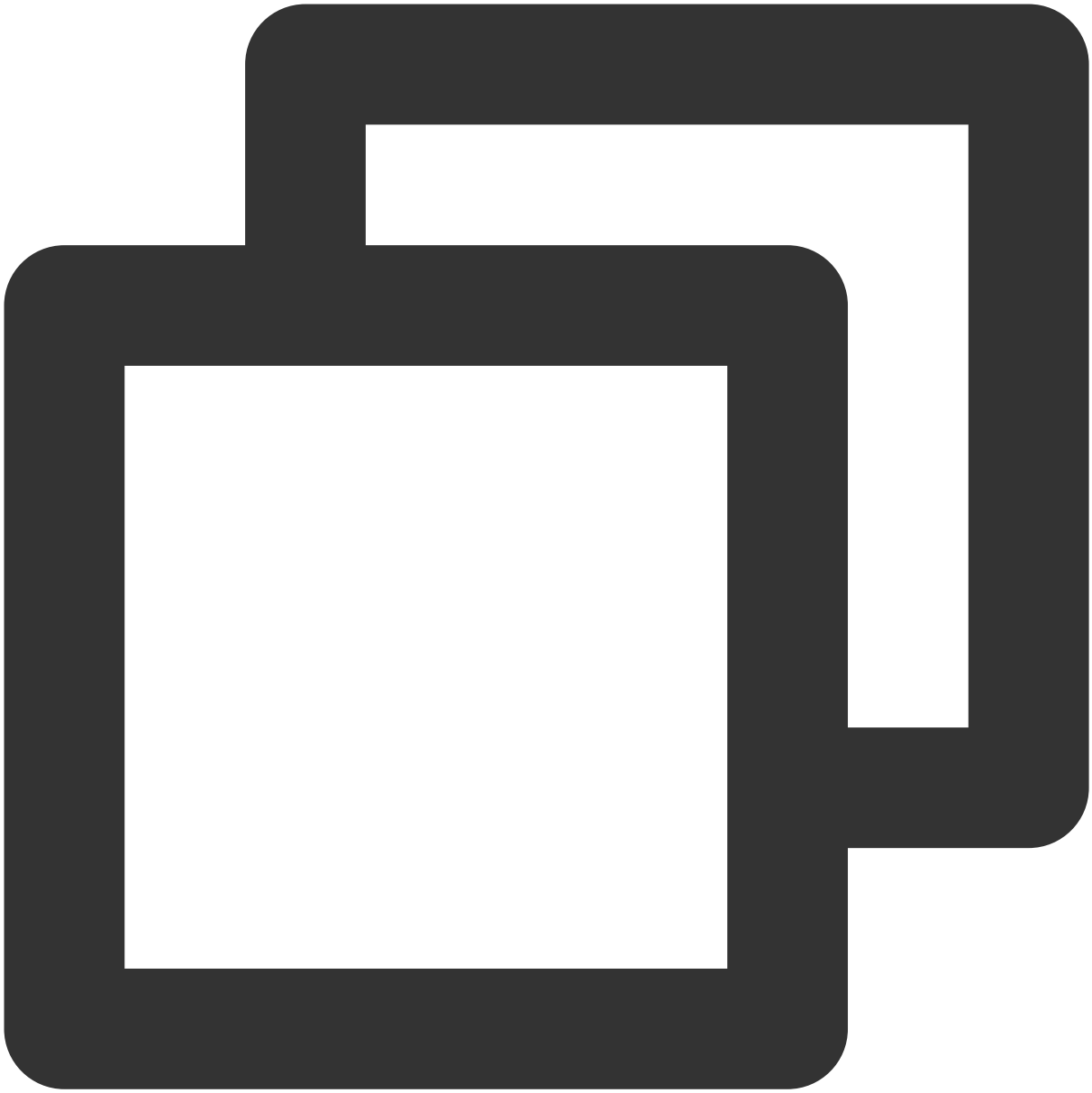

```
GET /?acl HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

A successful query returns the **application/xml** data that includes information about the bucket owner and authorization.

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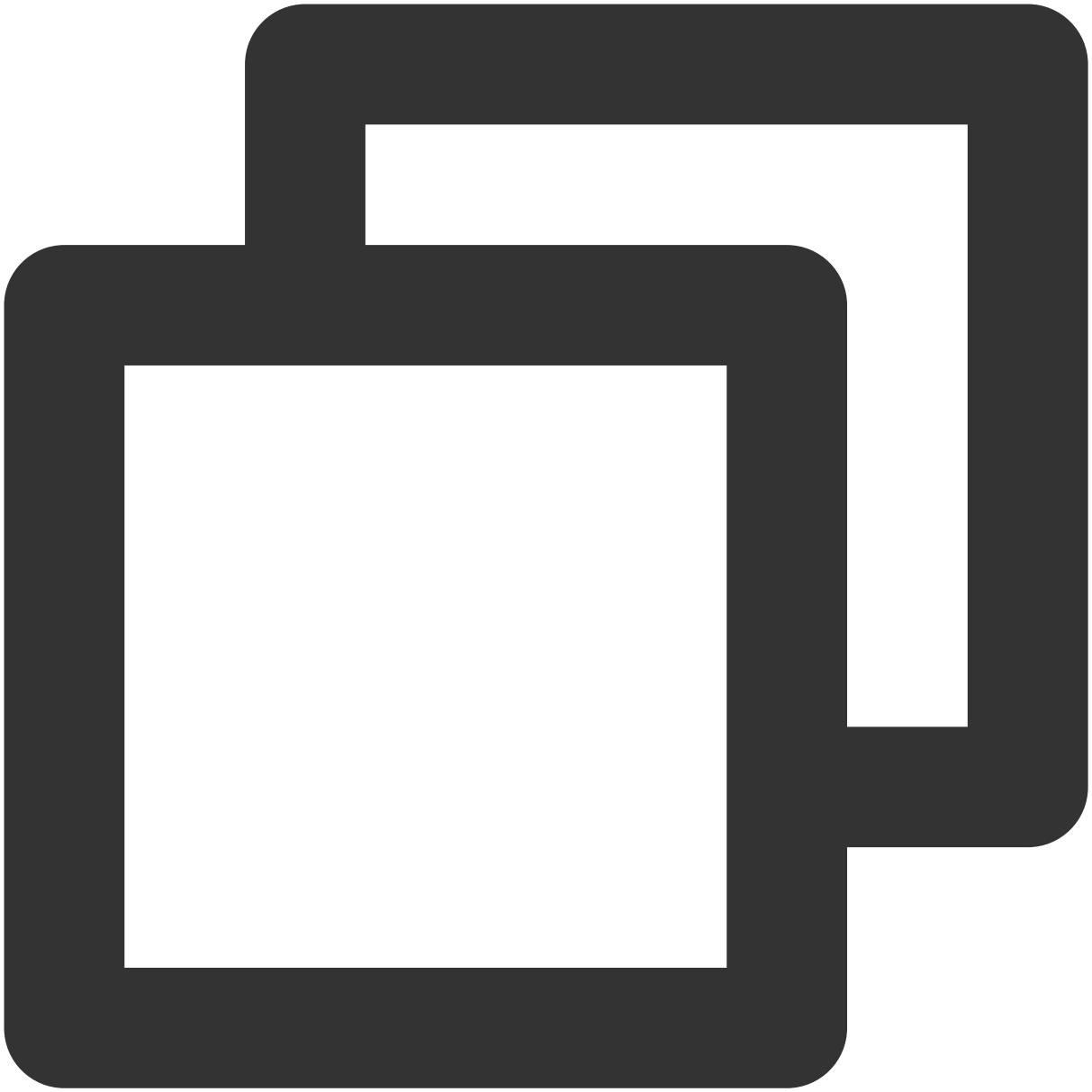

```
<AccessControlPolicy>
    <Owner>
        <ID>string</ID>
        <DisplayName>string</DisplayName>
    </Owner>
    <AccessControlList>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <URI>string</URI>
            </Grantee>
            <Permission>Enum</Permission>
```

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```
        </Grant>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <ID>string</ID>
                <DisplayName>string</DisplayName>
            </Grantee>
            <Permission>Enum</Permission>
        </Grant>
    </AccessControlList>
</AccessControlPolicy>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
AccessControlPolicy	None	Stores the result of `GET Bucket acl`.	Container

Content of `AccessControlPolicy`:

Node Name (Keyword)	Parent Node	Description	Type
Owner	AccessControlPolicy	Information about the bucket owner	Container
AccessControlList	AccessControlPolicy	Information about the grantee and permissions	Container

Content of `Owner`:

Node Name (Keyword)	Parent Node	Description
ID	AccessControlPolicy.Owner	Complete ID of the bucket owner, formatted as `qcs::cam::uin/[OwnerUin]:uin/[OwnerUin]` Example: `qcs::cam::uin/100000000001:uin/100000000001`
DisplayName	AccessControlPolicy.Owner	Name of the bucket owner

Content of `AccessControlList`:

Node Name (Keyword)	Parent Node	Description	Type
Grant	AccessControlPolicy.AccessControlList	A single permission	Container

Content of `AccessControlList.Grant`:

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Node Name (Keyword)	Parent Node	Description	Type
Grantee	AccessControlPolicy.AccessControlList.Grant	Grantee information. `xsi:type` can be set to `Group` or `CanonicalUser`. If it's set to `Group`, the child node can contain only `URI`. If it's set to `CanonicalUser`, the child node can contain only `ID` and `DisplayName`.	Container
Permission	AccessControlPolicy.AccessControlList.Grant	Permission granted. For the enumerated values such as `WRITE` and `FULL_CONTROL`, please see **Actions on buckets** in ACL Overview.	Enum

Content of `AccessControlList.Grant.Grantee`:

Node Name (Keyword)	Parent Node	Description
URI	AccessControlPolicy.AccessControlList.Grant.Grantee	Preset user group. For more informatio ACL Overview. Examples: `http://cam.qcloud.c` `http://cam.qcloud.com/group`
ID	AccessControlPolicy.AccessControlList.Grant.Grantee	Compete ID of the grantee, formatted a `qcs::cam::uin/[OwnerUin]:ui` Example: `qcs::cam::uin/10000`
DisplayName	AccessControlPolicy.AccessControlList.Grant.Grantee	Name of the grantee

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

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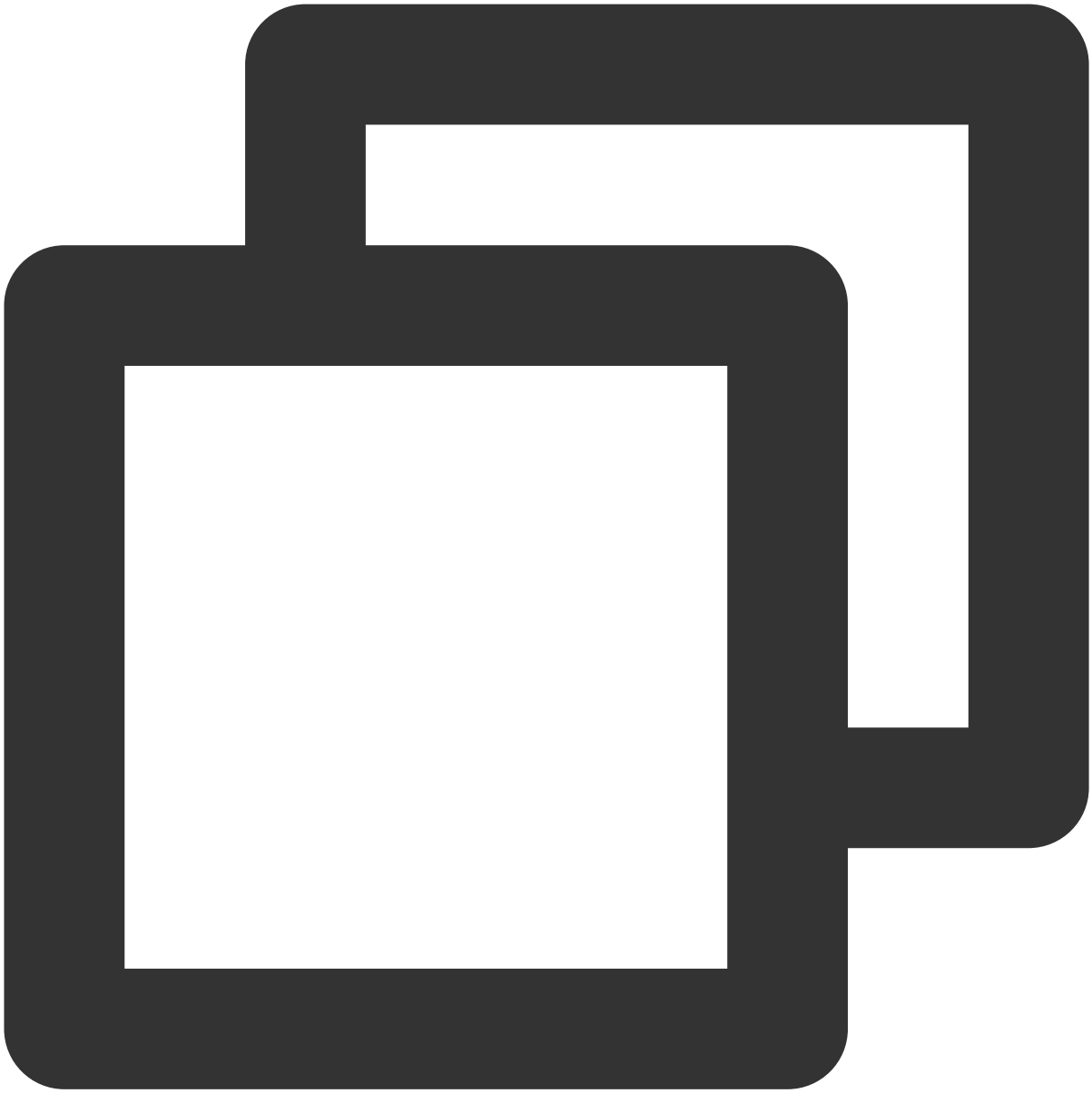
Request



```
GET /?acl HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Mon, 17 Jun 2019 08:37:35 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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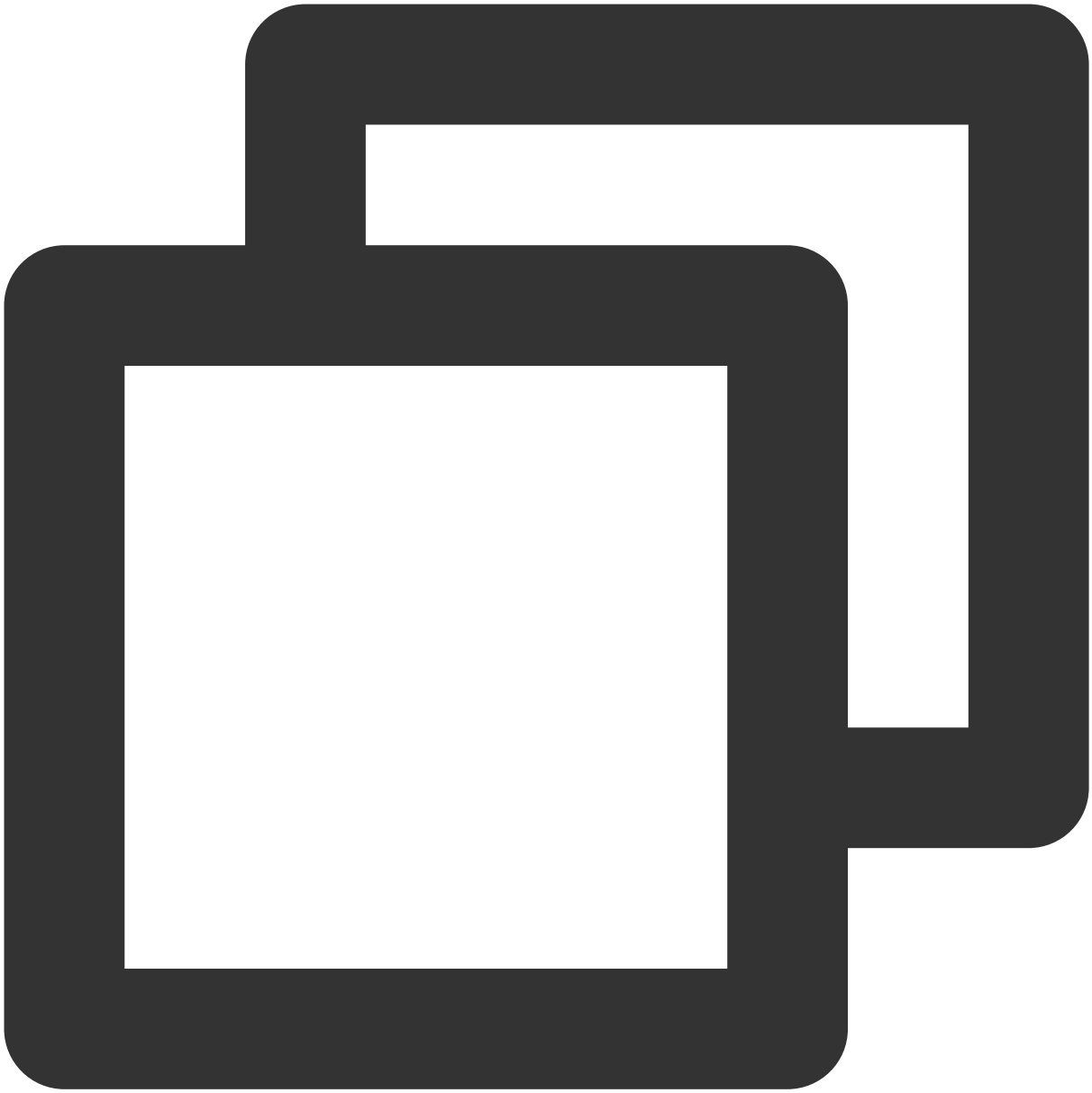

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1035
Connection: close
Date: Mon, 17 Jun 2019 08:37:36 GMT
Server: tencent-cos
x-cos-request-id: NWQwNzUxNTBfMzdiMDJhMDlfOWM0Nl85NDFk****

<AccessControlPolicy>
    <Owner>
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
```

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```
        <DisplayName>qcs::cam::uin/100000000001:uin/100000000001</DisplayName>
    </Owner>
    <AccessControlList>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <URI>http://cam.qcloud.com/groups/global/AllUsers</URI>
            </Grantee>
            <Permission>READ</Permission>
        </Grant>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <ID>qcs::cam::uin/100000000002:uin/100000000002</ID>
                <DisplayName>qcs::cam::uin/100000000002:uin/100000000002</DisplayNa
            </Grantee>
            <Permission>WRITE</Permission>
        </Grant>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <ID>qcs::cam::uin/100000000002:uin/100000000002</ID>
                <DisplayName>qcs::cam::uin/100000000002:uin/100000000002</DisplayNa
            </Grantee>
            <Permission>READ_ACP</Permission>
        </Grant>
    </AccessControlList>
</AccessControlPolicy>
```

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Cross-Origin Resource Sharing (cors)
PUT Bucket cors

Last updated：2024-03-28 18:08:33

Overview

This API is used to configure CORS for a bucket. You need to pass in an XML configuration file within 64 KB.

Request

Sample request

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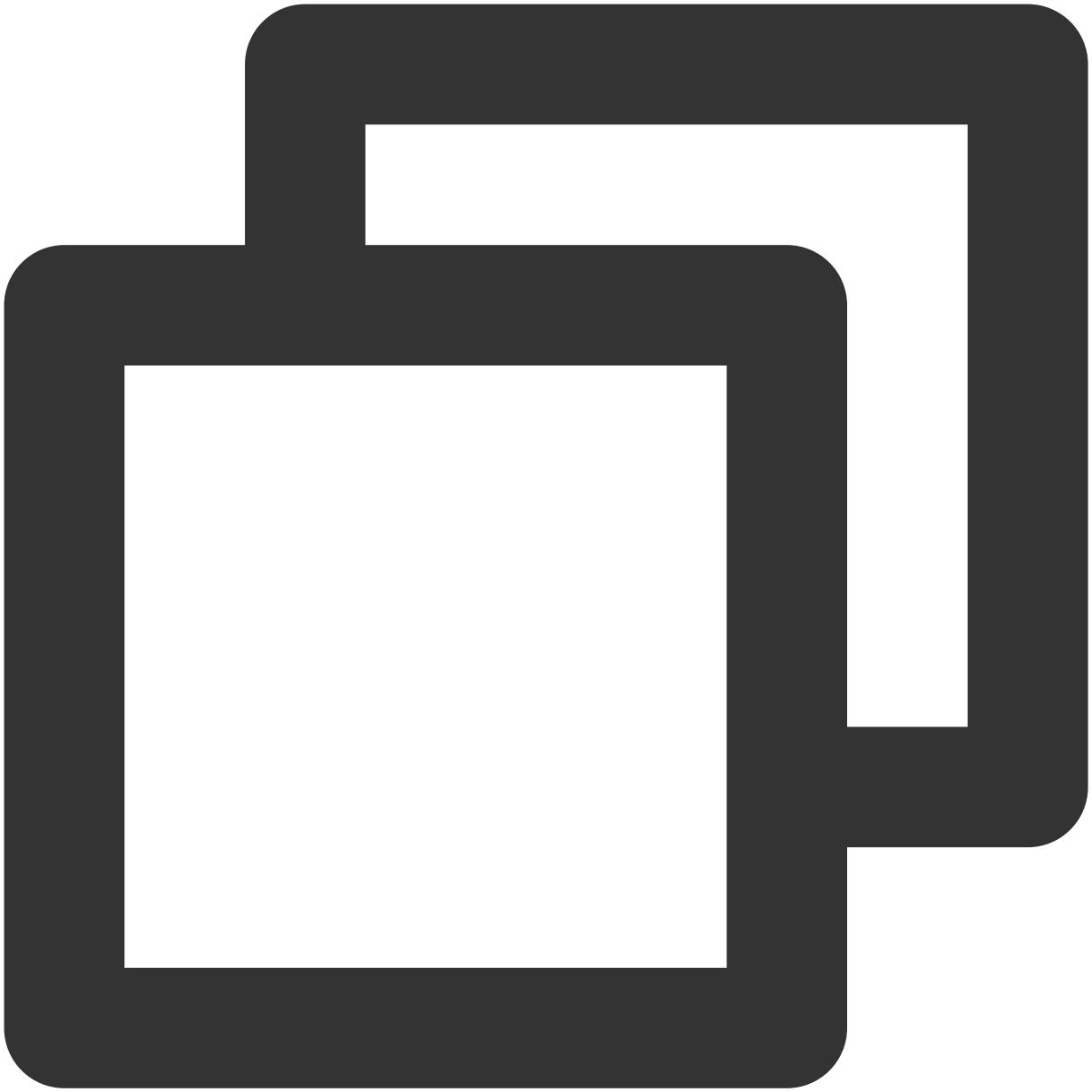

```
PUT /?cors HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String

[Request Body]
```

Note:

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In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

The request body submits **application/xml** data, which contains all CORS configurations of the bucket.

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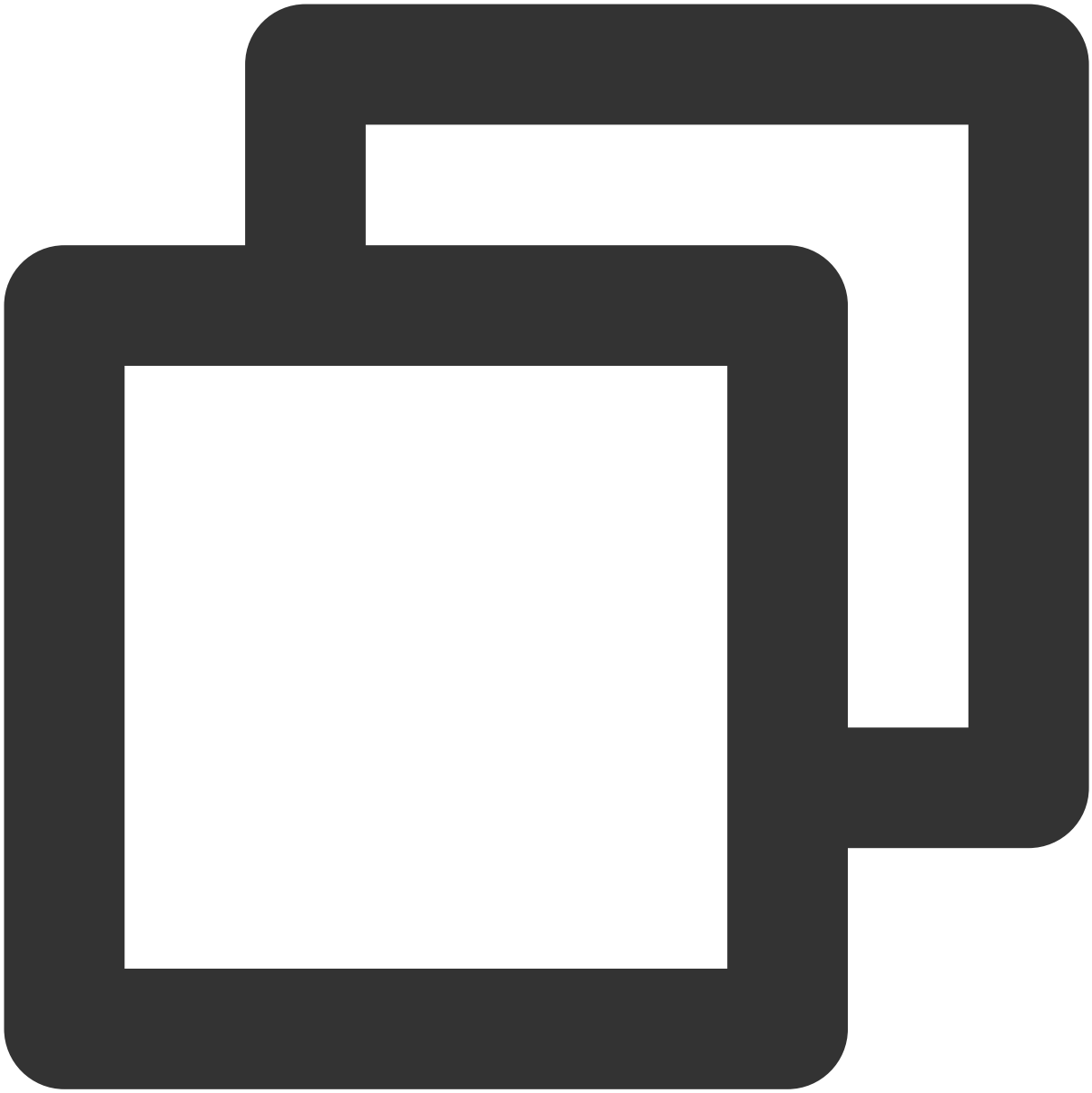

```
<CORSConfiguration>
    <CORSRule>
        <AllowedOrigin>string</AllowedOrigin>
        <AllowedMethod>enum</AllowedMethod>
        <AllowedMethod>enum</AllowedMethod>
        <AllowedHeader>string</AllowedHeader>
        <AllowedHeader>string</AllowedHeader>
        <ExposeHeader>string</ExposeHeader>
        <ExposeHeader>string</ExposeHeader>
        <MaxAgeSeconds>integer</MaxAgeSeconds>
    </CORSRule>
```

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```
    <CORSRule>
        <ID>string</ID>
        <AllowedOrigin>string</AllowedOrigin>
        <AllowedOrigin>string</AllowedOrigin>
        <AllowedMethod>enum</AllowedMethod>
        <AllowedMethod>enum</AllowedMethod>
        <AllowedHeader>string</AllowedHeader>
        <ExposeHeader>string</ExposeHeader>
        <ExposeHeader>string</ExposeHeader>
        <MaxAgeSeconds>integer</MaxAgeSeconds>
    </CORSRule>
</CORSConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
CORSConfiguration	None	All configurations of the `PUT Bucket cors` request	Container	No

Content of `CORSConfiguration`:

Node Name (Keyword)	Parent Node	Description	Type	Required
CORSRule	CORSConfiguration	A single CORS rule. You can configure up to 100 `CORSRule`.	Container	Yes

Content of `CORSRule`:

Node Name (Keyword)	Parent Node	Description	Type	Req
AllowedOrigin	CORSConfiguration.CORSRule	An origin allowed. More than one `AllowedOrigin` can be configured for a single `CORSRule`. You can set it to `*` to allow all domains (not recommended). You can set it to a single domain such as `http://www.example.com`. `*` can be placed in any positions, including the protocol, domain name, or port to match 0 or more characters. There can only be one	string	Yes

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		`*` . Note that if you use `*` , unexpected origins might be matched. Do not omit “http” or “https”, and if the port number is not the default port (HTTP: 80; HTTPS: 443), also include the port (e.g., `https://example.com:8443`).		
AllowedMethod	CORSConfiguration.CORSRule	An HTTP method allowed, which corresponds to the `Access-Control-Allow-Methods` header in the response to a CORS request. More than one `AllowedMethod` can be configured for a single `CORSRule` . Enumerated values: `PUT` , `GET` , `POST` , `DELETE` , `HEAD`	enum	Yes
AllowedHeader	CORSConfiguration.CORSRule	A custom HTTP header (case-insensitive) that the browser is allowed to send in a CORS request. When an `OPTIONS` request is sent, the browser will let the server know what custom HTTP headers will be used in the actual request. More than one `AllowedHeader` can be configured for a single `CORSRule` . You can set it to `*` to allow all headers. To avoid missing headers, `*` is recommended. If you don’t set it to `*` , every header specified in `Access-Control-Request-Headers` in the `OPTIONS` request must have a corresponding one in `AllowedHeader` .	string	Yes
ExposeHeader	CORSConfiguration.CORSRule	A CORS response header (case-insensitive) that can be exposed to the browser. More than one `ExposeHeader` can be configured for a single `CORSRule` .	string	Yes

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		If this parameter is not specified, the browser can only access simple response headers (`Cache-Control` , `Content-Type` , `Expires` , and `Last-Modified`) by default. Therefore, if you want the browser to access more response headers, specify them using this parameter. You cannot set this parameter to `*` , meaning you must set it to a specific header. You are advised to set this parameter according to the needs of your browser. `ETag` is recommended. For more information, please see the response header parts in API Documentation and Common Response Headers.		
MaxAgeSeconds	CORSConfiguration.CORSRule	Validity period of the CORS configuration, in seconds. This parameter corresponds to the `Access-Control-Max-Age` header in the response to the CORS request. During the validity period, the browser does not have to issue more `OPTIONS` requests for the same request. Only one `MaxAgeSeconds` can be configured for a single `CORSRule` .	integer	Yes
ID	CORSConfiguration.CORSRule	ID of the `CORSRule` . It can be used to specify a specific `CORSRule` when you call `GET Bucket cors` . You can configure only one ID for a single `CORSRule` at most.	string	No

Response

Response headers

This API only returns Common Response Headers.

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Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Request

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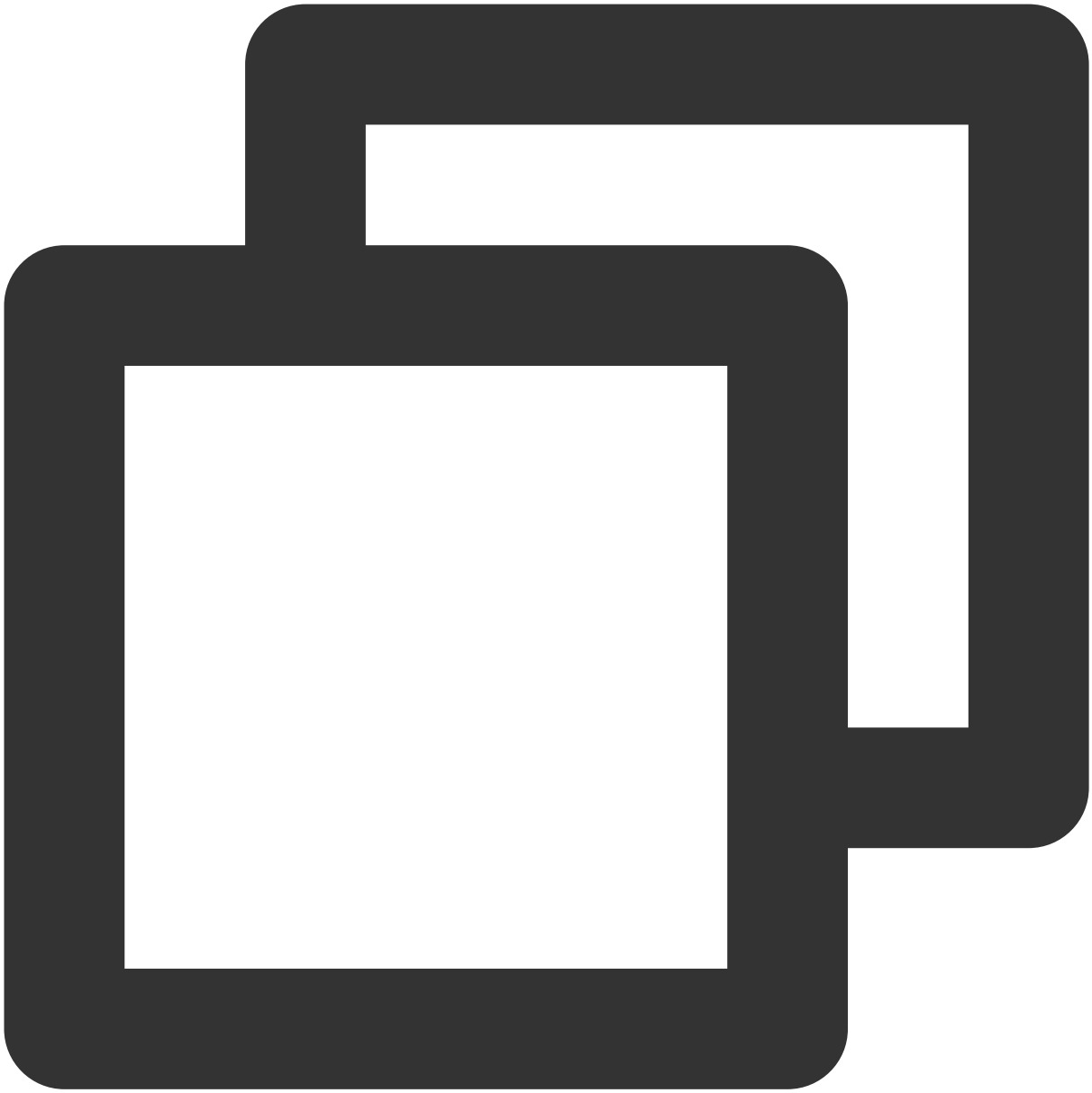

```
PUT /?cors HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 09 Jul 2020 11:15:01 GMT
Content-Type: application/xml
Content-Length: 1185
Content-MD5: ZNkhBxyjkaZcs1j7/cIE2A==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<CORSConfiguration>
    <CORSRule>
```

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```
        <AllowedOrigin>*</AllowedOrigin>
        <AllowedMethod>GET</AllowedMethod>
        <AllowedMethod>HEAD</AllowedMethod>
        <AllowedHeader>Range</AllowedHeader>
        <AllowedHeader>x-cos-server-side-encryption-customer-algorithm</AllowedHead
        <AllowedHeader>x-cos-server-side-encryption-customer-key</AllowedHeader>
        <AllowedHeader>x-cos-server-side-encryption-customer-key-MD5</AllowedHeader
        <ExposeHeader>Content-Length</ExposeHeader>
        <ExposeHeader>ETag</ExposeHeader>
        <ExposeHeader>x-cos-meta-author</ExposeHeader>
        <MaxAgeSeconds>600</MaxAgeSeconds>
    </CORSRule>
    <CORSRule>
        <ID>example-id</ID>
        <AllowedOrigin>https://example.com</AllowedOrigin>
        <AllowedOrigin>https://example.net</AllowedOrigin>
        <AllowedMethod>PUT</AllowedMethod>
        <AllowedMethod>GET</AllowedMethod>
        ...
        <AllowedMethod>HEAD</AllowedMethod>
        <AllowedHeader>*</AllowedHeader>
        <ExposeHeader>Content-Length</ExposeHeader>
        <ExposeHeader>ETag</ExposeHeader>
        <ExposeHeader>x-cos-meta-author</ExposeHeader>
        <MaxAgeSeconds>600</MaxAgeSeconds>
    </CORSRule>
</CORSConfiguration>
```

Response

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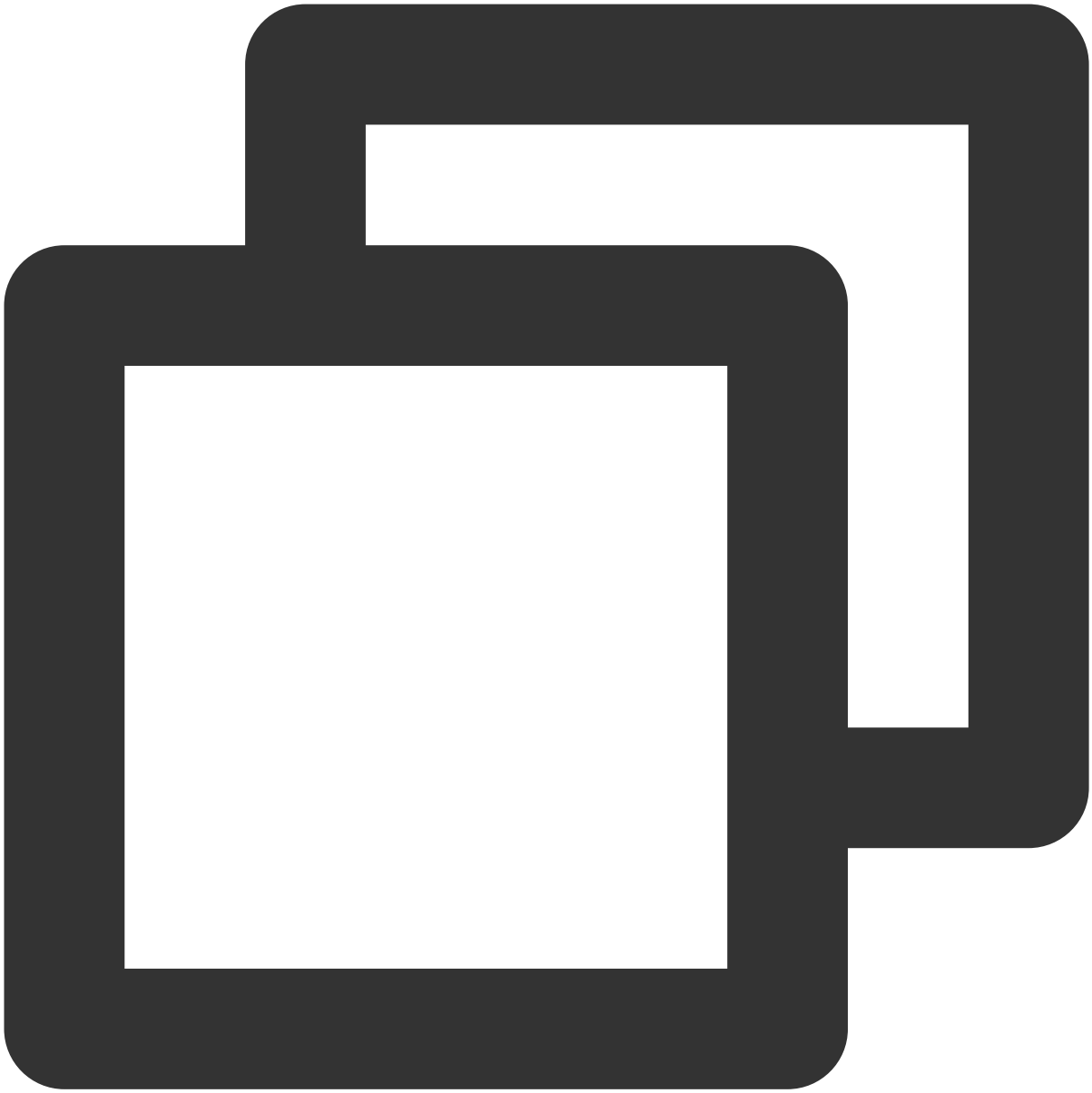

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Thu, 09 Jul 2020 11:15:01 GMT
Server: tencent-cos
x-cos-request-id: NWYwNmZjMzVfMzFiYjBiMDlfZjgzYV8xZDky****
```

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GET Bucket cors

Last updated：2024-03-28 18:08:32

Overview

This API is used to query the CORS configuration set for a bucket.

Request

Sample request

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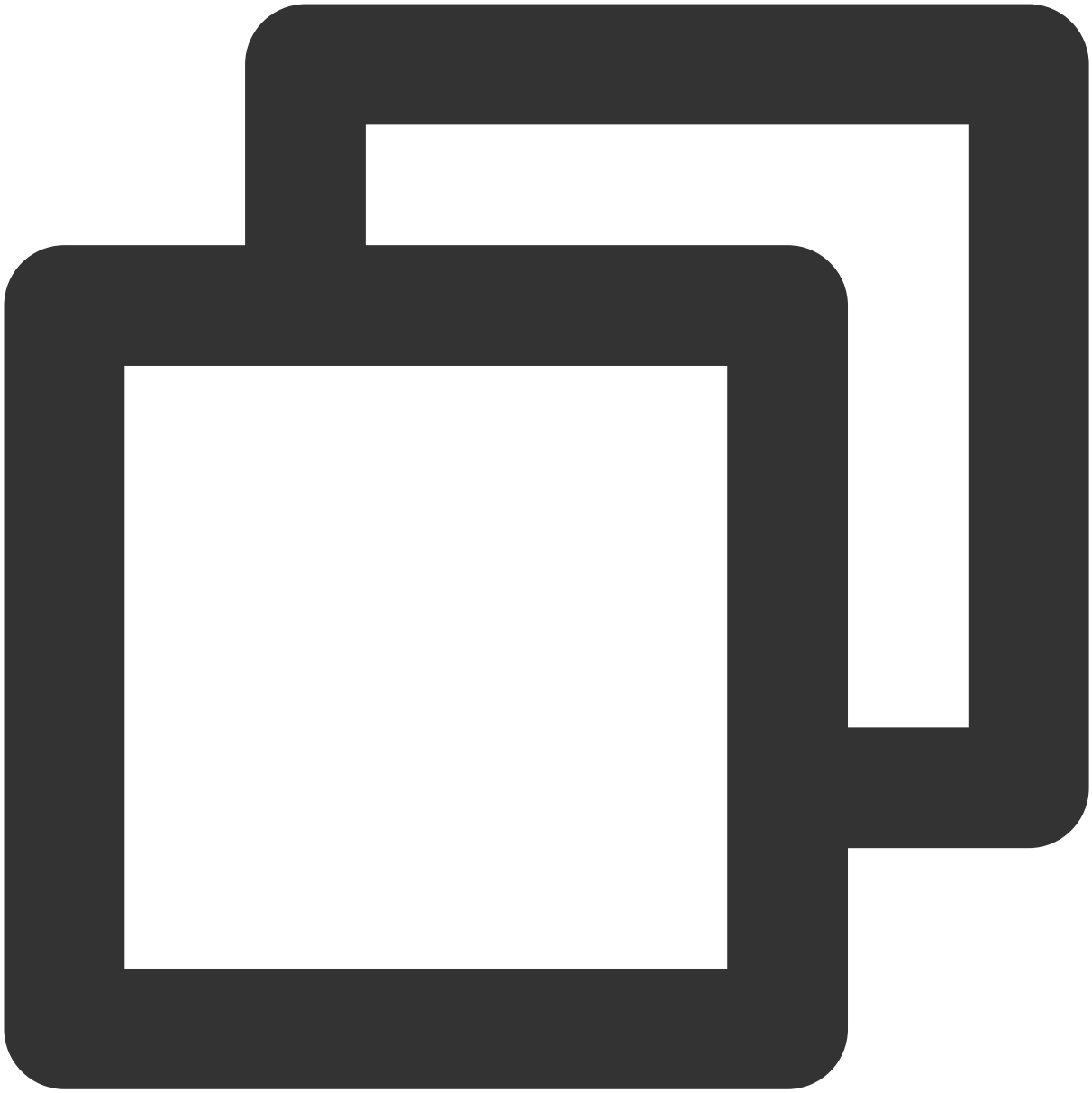

```
GET /?cors HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

A successful query returns **application/xml** data, which contains all information about the CORS configuration of the bucket.

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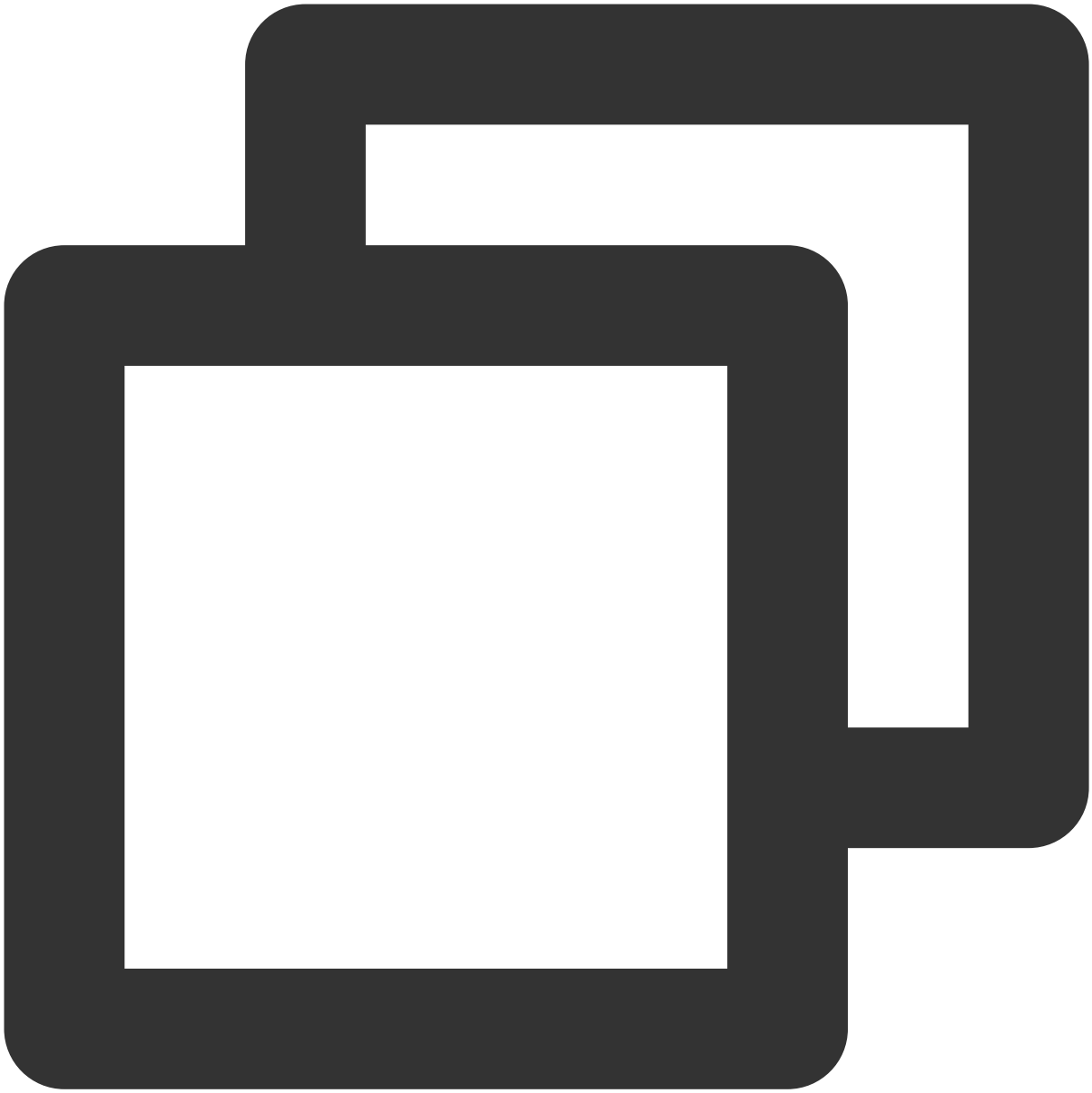

```
<?xml version='1.0' encoding='utf-8' ?>
<CORSConfiguration>
    <CORSRule>
        <AllowedOrigin>string</AllowedOrigin>
        <AllowedMethod>enum</AllowedMethod>
        <AllowedMethod>enum</AllowedMethod>
        <AllowedHeader>string</AllowedHeader>
        <AllowedHeader>string</AllowedHeader>
        <ExposeHeader>string</ExposeHeader>
        <ExposeHeader>string</ExposeHeader>
        <MaxAgeSeconds>integer</MaxAgeSeconds>
```

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```
    </CORSRule>
    <CORSRule>
        <ID>string</ID>
        <AllowedOrigin>string</AllowedOrigin>
        <AllowedOrigin>string</AllowedOrigin>
        <AllowedMethod>enum</AllowedMethod>
        <AllowedMethod>enum</AllowedMethod>
        <AllowedHeader>string</AllowedHeader>
        <ExposeHeader>string</ExposeHeader>
        <ExposeHeader>string</ExposeHeader>
        <MaxAgeSeconds>integer</MaxAgeSeconds>
    </CORSRule>
</CORSConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
CORSConfiguration	None	Stores the result of `GET Bucket cors` .	Container

Content of `CORSConfiguration` :

Node Name (Keyword)	Parent Node	Description	Type
CORSRule	CORSConfiguration	A single CORS rule	Container

Content of `CORSRule` :

Node Name (Keyword)	Parent Node	Description	Type
AllowedOrigin	CORSConfiguration.CORSRule	An origin allowed, which can contain or be `*` . More than one `AllowedOrigin` can be configured for a single `CORSRule` .	string
AllowedMethod	CORSConfiguration.CORSRule	An HTTP method allowed, which corresponds to the `Access-Control-Allow-Methods` header in the response to a CORS request. More than one `AllowedMethod` can be configured for a single `CORSRule` . Enumerated values: `PUT` , `GET` , `POST` , `DELETE` , `HEAD`	enum
AllowedHeader	CORSConfiguration.CORSRule	A custom HTTP request header (case-	string

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		insensitive) that the browser is allowed to include in a CORS request. It can be `*`. More than one `AllowedHeader` can be configured for a single `CORSRule`.	
ExposeHeader	CORSConfiguration.CORSRule	A CORS response header (case-insensitive) that can be exposed to the browser. More than one `ExposeHeader` can be configured for a single `CORSRule`.	string
MaxAgeSeconds	CORSConfiguration.CORSRule	Validity period of the CORS configuration, in seconds. This parameter corresponds to the `Access-Control-Max-Age` header in the response to the CORS request. Only one `MaxAgeSeconds` can be configured for a single `CORSRule`.	integer
ID	CORSConfiguration.CORSRule	ID of a single `CORSRule`. If this node exists, `PUT Bucket cors` has set an ID for the CORS rule. Only one ID can be set for a single `CORSRule` at most.	string

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Request

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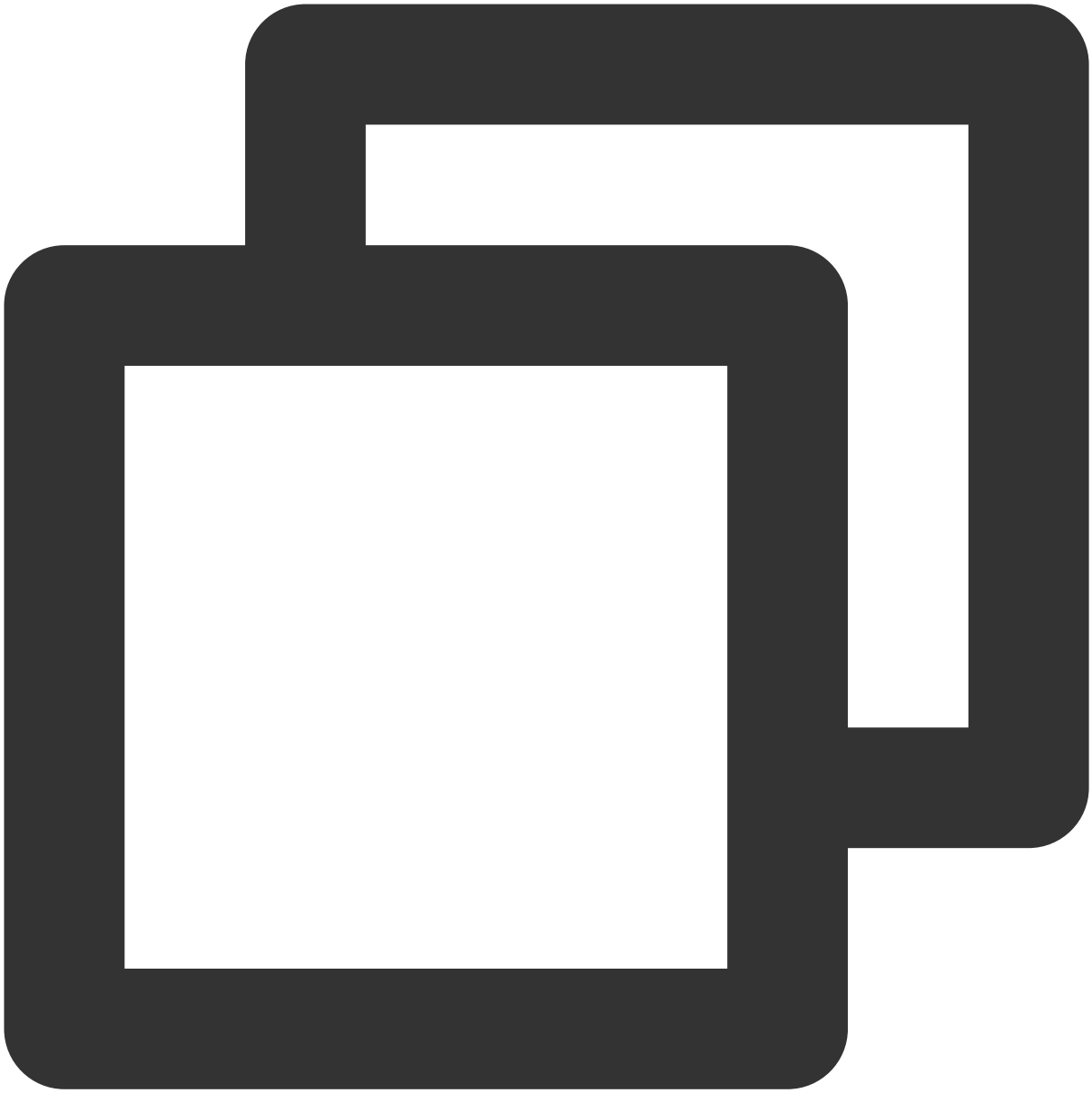

```
GET /?cors HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 09 Jul 2020 11:15:12 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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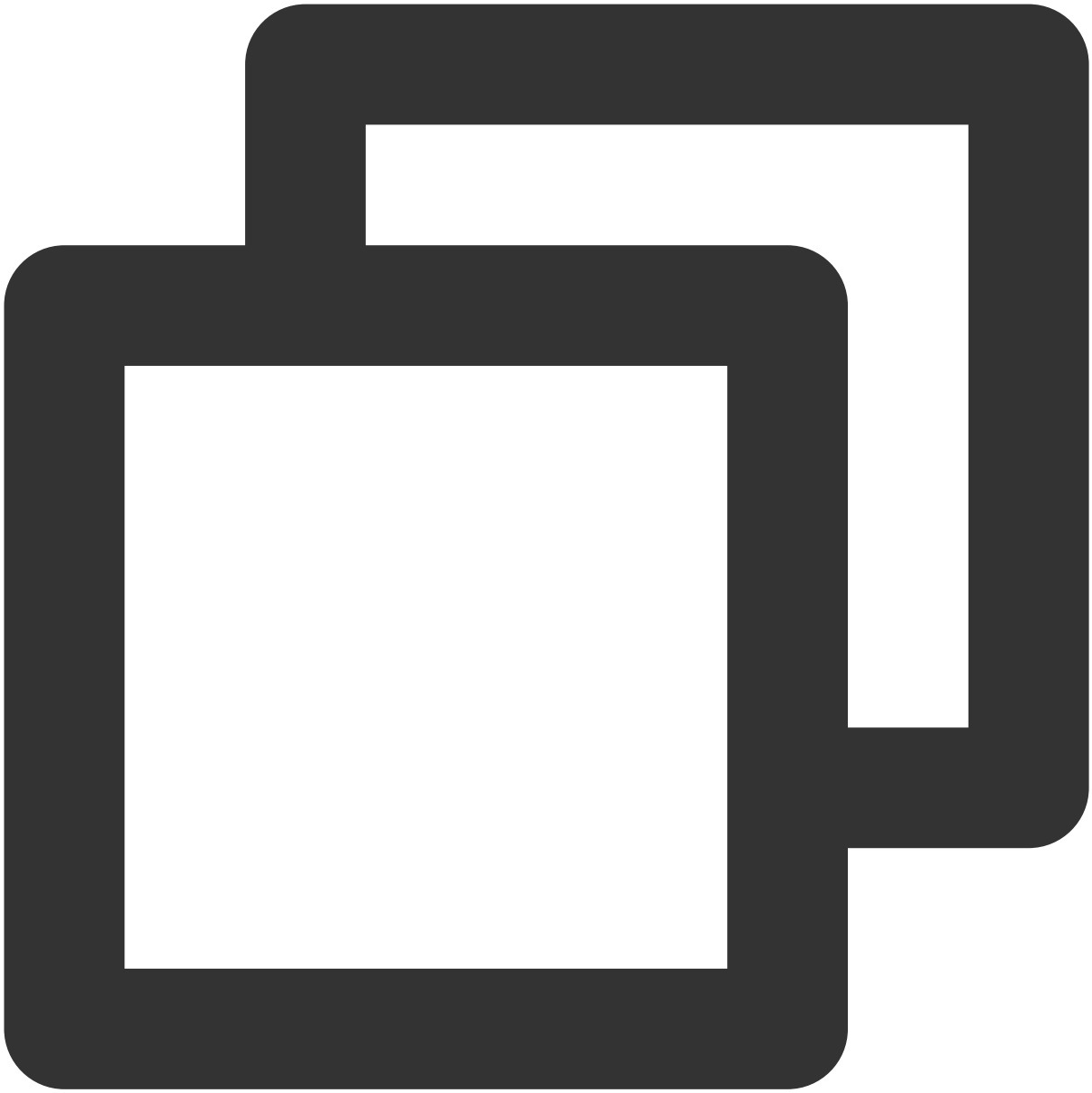

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1196
Connection: close
Date: Thu, 09 Jul 2020 11:15:12 GMT
Server: tencent-cos
x-cos-request-id: NWYwNmZjNDBfN2ViMTJhMDlfZDNjOV8xYjdk****

<?xml version='1.0' encoding='utf-8' ?>
<CORSConfiguration>
    <CORSRule>
```

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```
        <AllowedOrigin>*</AllowedOrigin>
        <AllowedMethod>GET</AllowedMethod>
        <AllowedMethod>HEAD</AllowedMethod>
        <AllowedHeader>Range</AllowedHeader>
        <AllowedHeader>x-cos-server-side-encryption-customer-algorithm</AllowedHead
        <AllowedHeader>x-cos-server-side-encryption-customer-key</AllowedHeader>
        <AllowedHeader>x-cos-server-side-encryption-customer-key-MD5</AllowedHeader
        <ExposeHeader>Content-Length</ExposeHeader>
        <ExposeHeader>ETag</ExposeHeader>
        <ExposeHeader>x-cos-meta-author</ExposeHeader>
        <MaxAgeSeconds>600</MaxAgeSeconds>
    </CORSRule>
    <CORSRule>
        <ID>example-id</ID>
        <AllowedOrigin>https://example.com</AllowedOrigin>
        <AllowedOrigin>https://example-1.com</AllowedOrigin>
        <AllowedMethod>PUT</AllowedMethod>
        <AllowedMethod>GET</AllowedMethod>
        ...
        <AllowedMethod>HEAD</AllowedMethod>
        <AllowedHeader>*</AllowedHeader>
        <ExposeHeader>Content-Length</ExposeHeader>
        <ExposeHeader>ETag</ExposeHeader>
        <ExposeHeader>x-cos-meta-author</ExposeHeader>
        <MaxAgeSeconds>600</MaxAgeSeconds>
    </CORSRule>
</CORSConfiguration>
```

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DELETE Bucket cors

Last updated：2024-03-28 18:08:32

Overview

This API is used to delete the CORS configuration set for a bucket.

Request

Sample request

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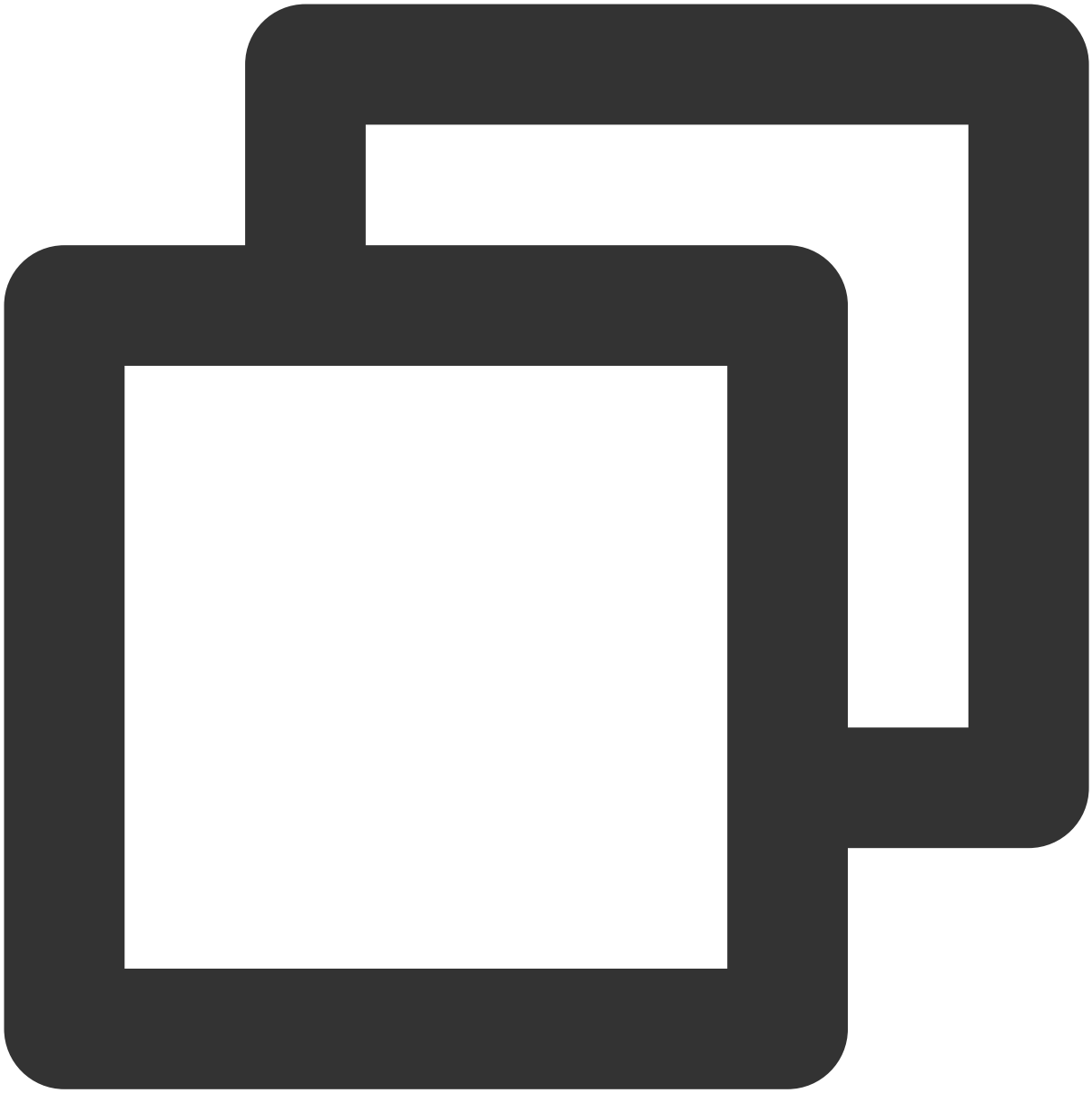

```
DELETE /?cors HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Request

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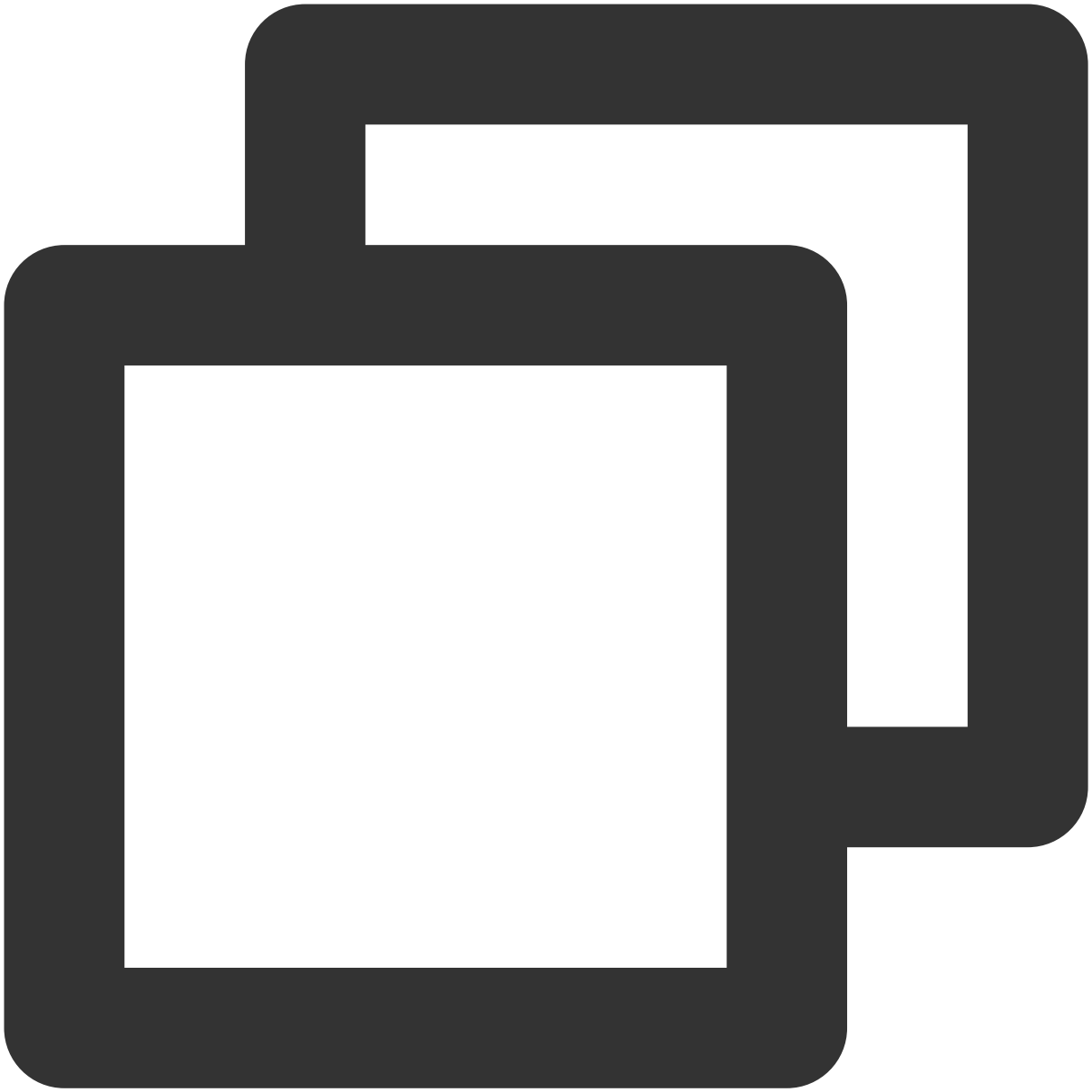

```
DELETE /?cors HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 09 Jul 2020 11:52:50 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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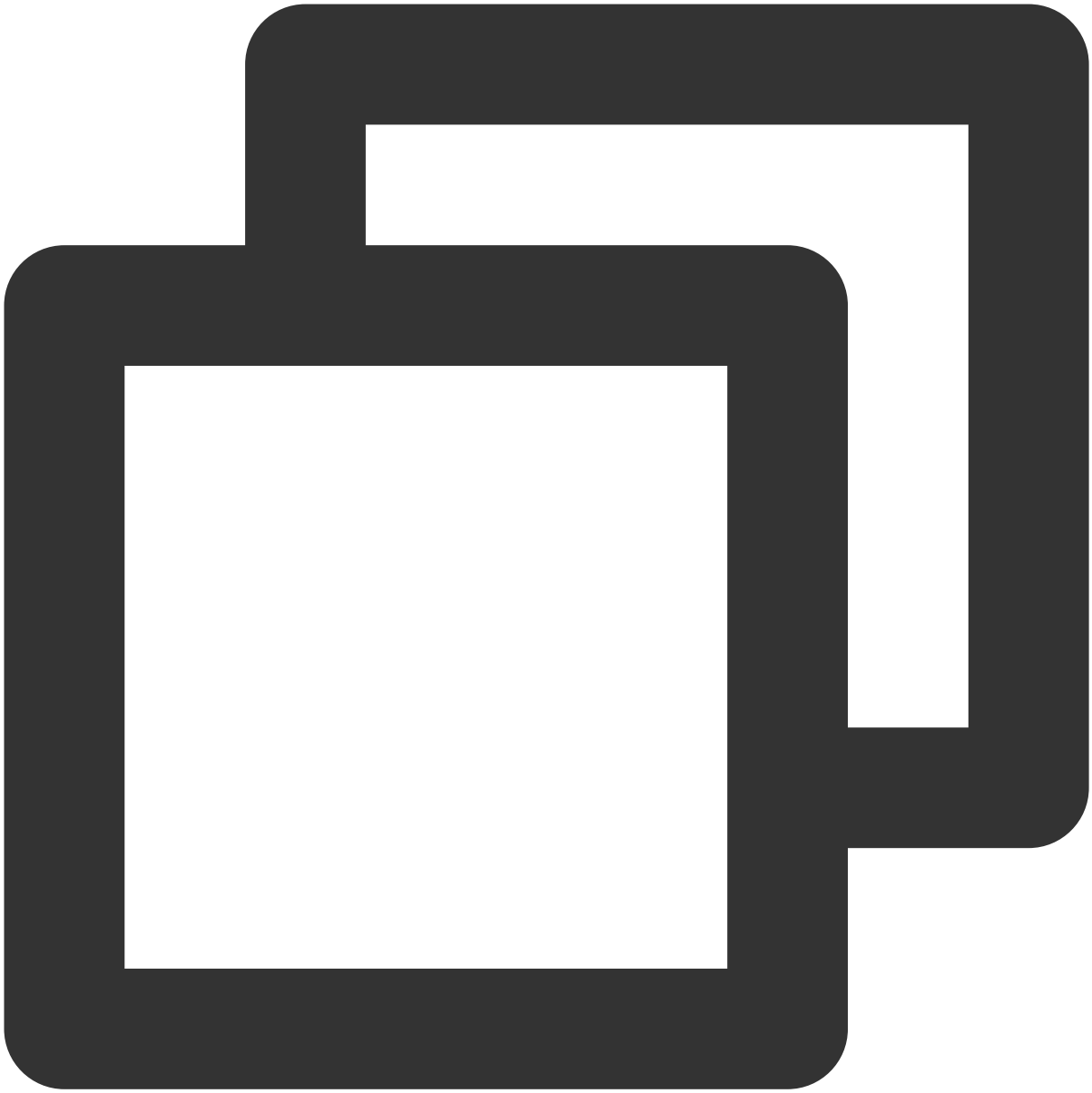

```
HTTP/1.1 204 No Content
Connection: close
Date: Thu, 09 Jul 2020 11:52:50 GMT
Server: tencent-cos
x-cos-request-id: NWYwNzA1MTJfNjRiODJhMDlfMWMyMzlfMWMyNzhl****
x-cos-trace-id: OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODczNTBmNjMwZmQ0MTZkMjg0Njl
Content-Length: 0
```

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Lifecycle
PUT Bucket lifecycle

Last updated：2024-03-28 18:08:33

Feature Description

COS introduces the lifecycle feature for you to manage the lifecycle of objects in buckets. The lifecycle configuration contains one or more rules that apply to a set of objects. Each rule defines one operation.
There are two types of operations:
Transition: defines when an object is transitioned to another storage class. For example, you can transition an object to STANDARD_IA (suitable for infrequently accessed objects) 30 days after its creation. You can also transition the object to INTELLIGENT TIERING (suitable for objects with irregular access patterns) or ARCHIVE (offering lower costs). For specific parameters, please see `Transition` in the sample request description.
Expiration: specifies when an object shall expire. COS will automatically delete expired objects.

Notes

This API (`PUT Bucket lifecycle`) is used to create a lifecycle configuration for a bucket.
Note:
If a lifecycle configuration has already been set for the bucket, the new configuration created with this API will overwrite the existing one.
`Days` and `Date` cannot be both specified in the same lifecycle rule. Please pass them to two separate rules. For details, please see the following Sample.
Objects in buckets with MAZ configuration enabled cannot be transitioned to an OAZ bucket.
Up to 1,000 lifecycle rules can be added for each bucket.

Requests

Request example

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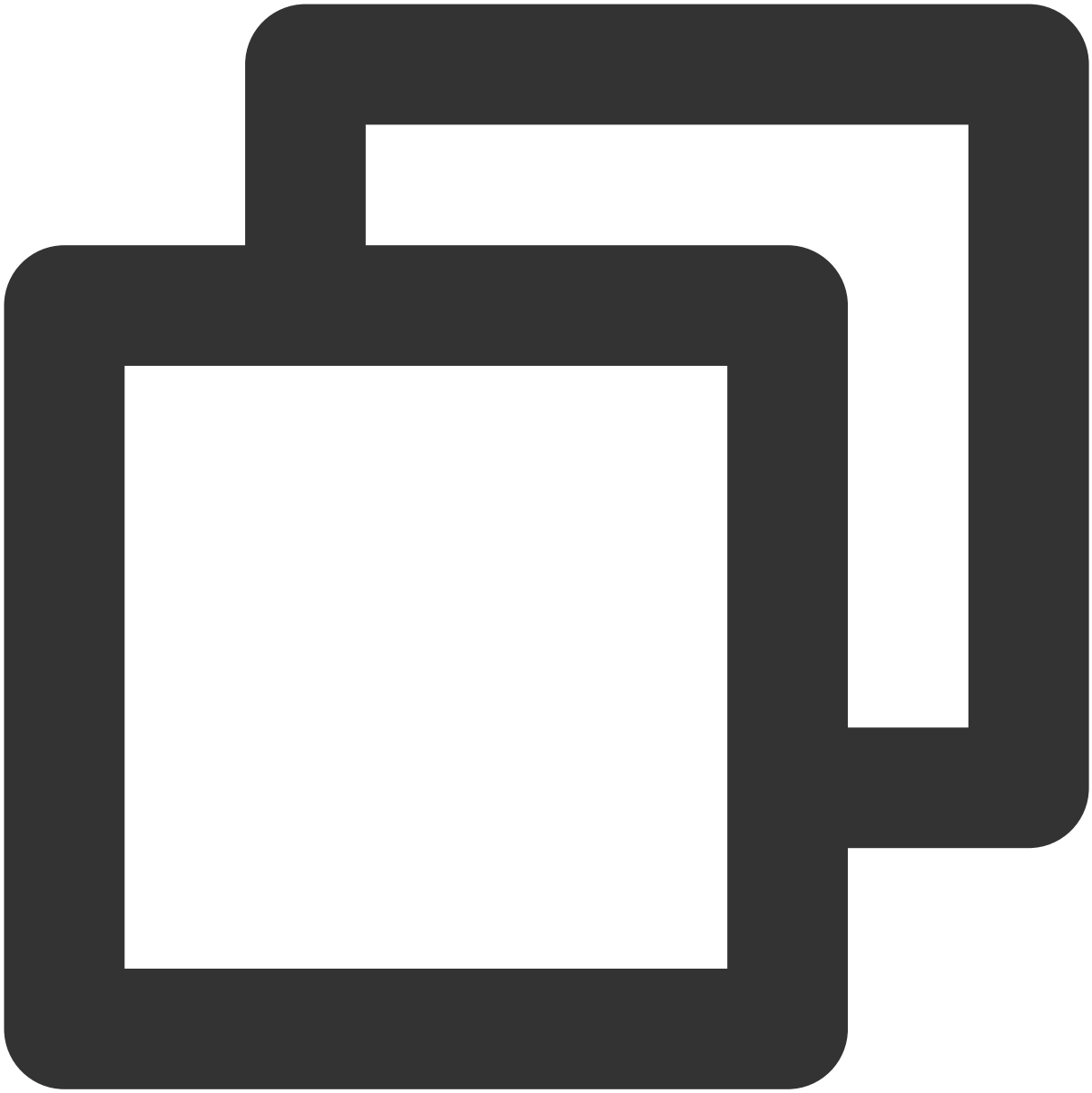

```
PUT /?lifecycle HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Content-Length: length
Date: GMT Date
Authorization: Auth String
Content-MD5: MD5
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

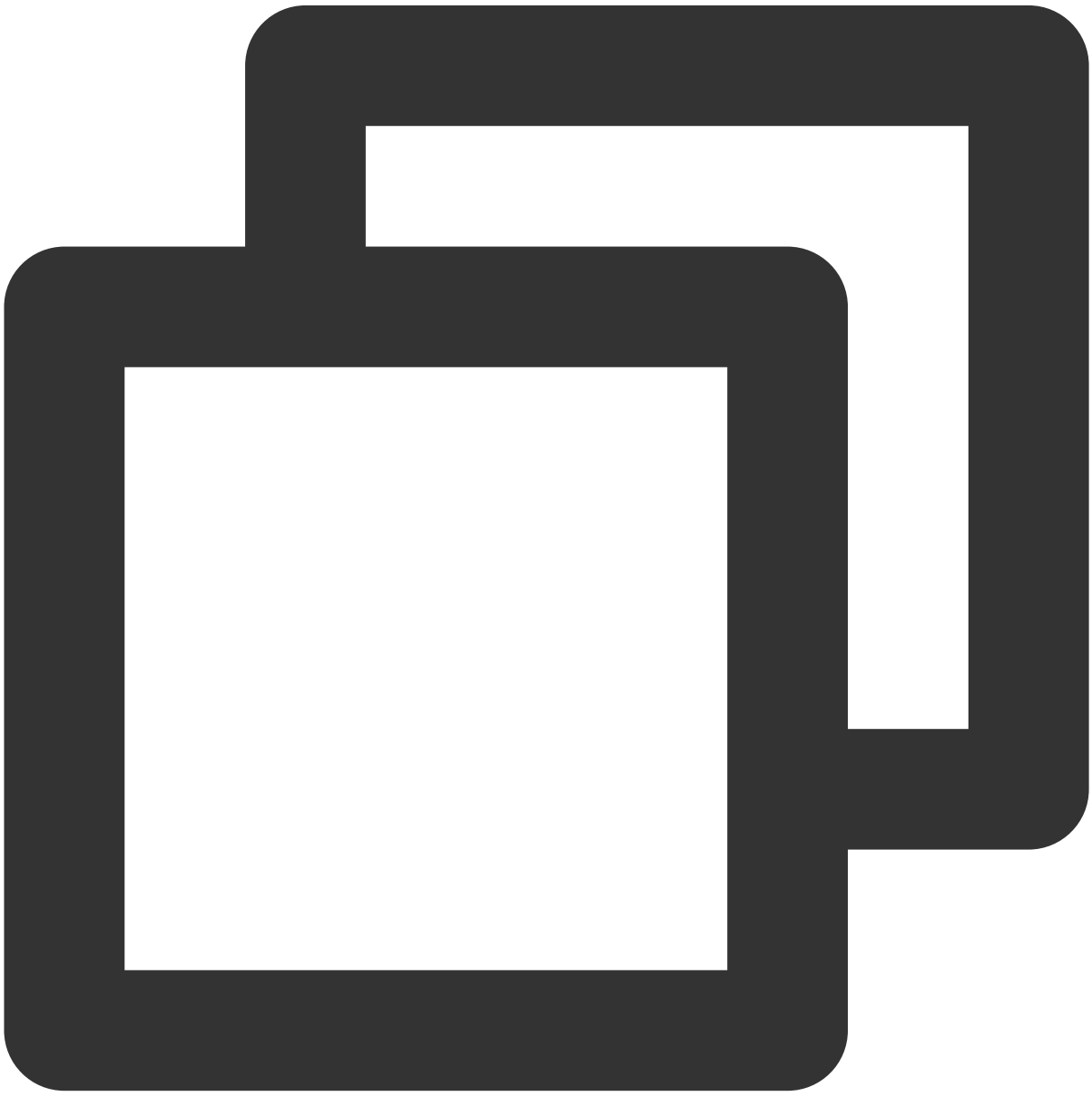
Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

Nodes of the request body for this API are as follows:



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```
<LifecycleConfiguration>
    <Rule>
        <ID></ID>
        <Filter>
            <And>
                <Prefix></Prefix>
                <Tag>
                    <Key></Key>
                    <Value></Value>
                </Tag>
            </And>
        </Filter>
        <Status></Status>
        <Transition>
            <Days></Days>
            <StorageClass></StorageClass>
        </Transition>
        <NoncurrentVersionExpiration>
            <NoncurrentDays></NoncurrentDays>
        </NoncurrentVersionExpiration>
    </Rule>
    <Rule>
        <ID></ID>
        <Filter>
            <Prefix></Prefix>
        </Filter>
        <Status></Status>
        <Transition>
            <Days></Days>
            <StorageClass></StorageClass>
        </Transition>
        <NoncurrentVersionTransition>
            <NoncurrentDays></NoncurrentDays>
            <StorageClass></StorageClass>
        </NoncurrentVersionTransition>
    </Rule>
    <Rule>
        <ID></ID>
        <Filter>
            <Prefix></Prefix>
        </Filter>
        <Status></Status>
        <Expiration>
            <ExpiredObjectDeleteMarker></ExpiredObjectDeleteMarker>
        </Expiration>
        <NoncurrentVersionExpiration>
```

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```
            <NoncurrentDays></NoncurrentDays>
        </NoncurrentVersionExpiration>
        <AbortIncompleteMultipartUpload>
            <DaysAfterInitiation></DaysAfterInitiation>
        </AbortIncompleteMultipartUpload>
    </Rule>
</LifecycleConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description
LifecycleConfiguration	None	Lifecycle con
Rule	LifecycleConfiguration	Rule descript
ID	LifecycleConfiguration.Rule	A unique ider can be up to 2
Filter	LifecycleConfiguration.Rule	Identifies obje rule applies to
And	LifecycleConfiguration.Rule.Filter	A subset of th element is on are more thar example, filte and `Tag` a with more tha
Prefix	LifecycleConfiguration.Rule.Filter.And	Matching pre specifies obje rule applies to `Prefix` at
Tag	LifecycleConfiguration.Rule.Filter.And	A set of tags. supported.
Key	LifecycleConfiguration.Rule.Filter.And.Tag	Key of the tag bytes. Letters signs (+), min underscores (dots (.), colon are supported
Value	LifecycleConfiguration.Rule.Filter.And.Tag	Value of the t bytes. Letters signs (+), min underscores (

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		dots (.), colon are supported
Status	LifecycleConfiguration.Rule	Indicates whether enabled. Enum `Enabled`,
Expiration	LifecycleConfiguration.Rule	Expiration att
Transition	LifecycleConfiguration.Rule	Specifies whe object and the
Days	LifecycleConfiguration.Rule.Transition or Expiration	Specifies the between the c last modified operation cor is performed. If it is a `Tra` this value sho integer. If it is an `Ex` operation, this positive integ value is 3650
ExpiredObjectDeleteMarker	LifecycleConfiguration.Rule.Expiration	Indicates whe marker of an removed. Enu `true`, `fa`
AbortIncompleteMultipartUpload	LifecycleConfiguration.Rule	Specifies the multipart uplo
DaysAfterInitiation	LifecycleConfiguration.Rule.AbortIncompleteMultipartUpload	Specifies the which the mu completed aft
NoncurrentVersionExpiration	LifecycleConfiguration.Rule	Specifies whe versions shal
NoncurrentVersionTransition	LifecycleConfiguration.Rule	Specifies whe of noncurrent target storage
NoncurrentDays	LifecycleConfiguration.Rule.NoncurrentVersionExpiration or NoncurrentVersionTransition	Specifies the between the c becomes non

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		when the ope to a rule is pe If it is a `Tra` this value sho integer. If it is an `Ex` operation, thi positive integ value is 3650

StorageClass	LifecycleConfiguration.Rule.Transition or NoncurrentVersionTransition	Specifies the
		transitioned c
		values: `STA`
		`MAZ_STAND`
		`INTELLIGE`
		`MAZ_INTEI`
		`ARCHIVE`,
		For more info
		classes, see
		Overview.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Request

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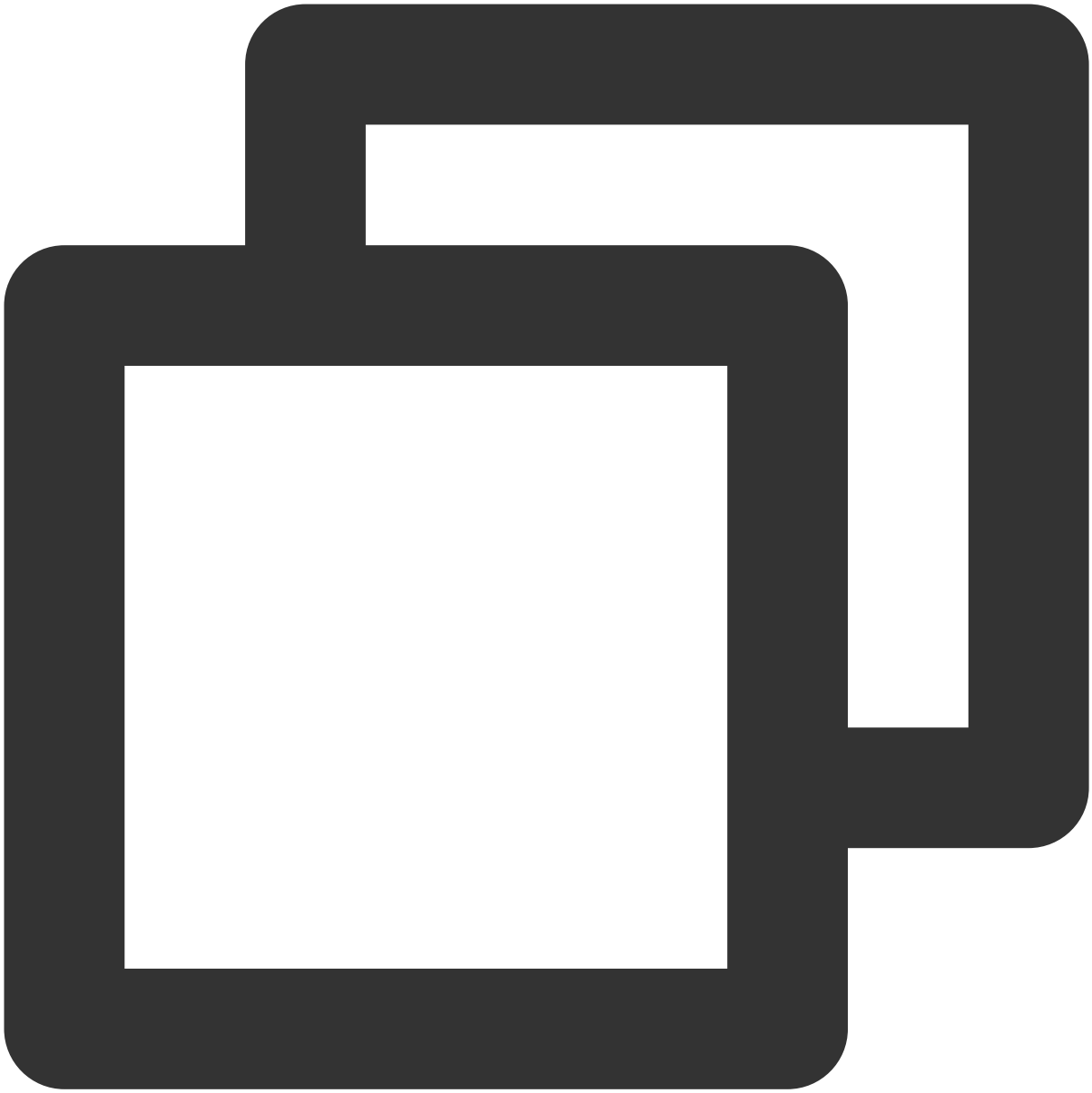

```
PUT /?lifecycle HTTP/1.1
Host:examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 16 Aug 2017 11:59:33 GMT
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Content-MD5: LcNUuow8OSZMrEDnvndw1Q==
Content-Length: 348
Content-Type: application/x-www-form-urlencoded



<LifecycleConfiguration>
```

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```
        <Rule>
              <ID>id1</ID>
              <Filter>
                    <Prefix>documents/</Prefix>
              </Filter>
              <Status>Enabled</Status>
              <Transition>
                    <Days>100</Days>
                    <StorageClass>ARCHIVE</StorageClass>
              </Transition>
        </Rule>
        <Rule>
              <ID>id2</ID>
              <Filter>
                    <Prefix>logs/</Prefix>
              </Filter>
              <Status>Enabled</Status>
              <Transition>
                    <Days>10</Days>
                    <StorageClass>STANDARD_IA</StorageClass>
              </Transition>
        </Rule>
</LifecycleConfiguration>
```

Response

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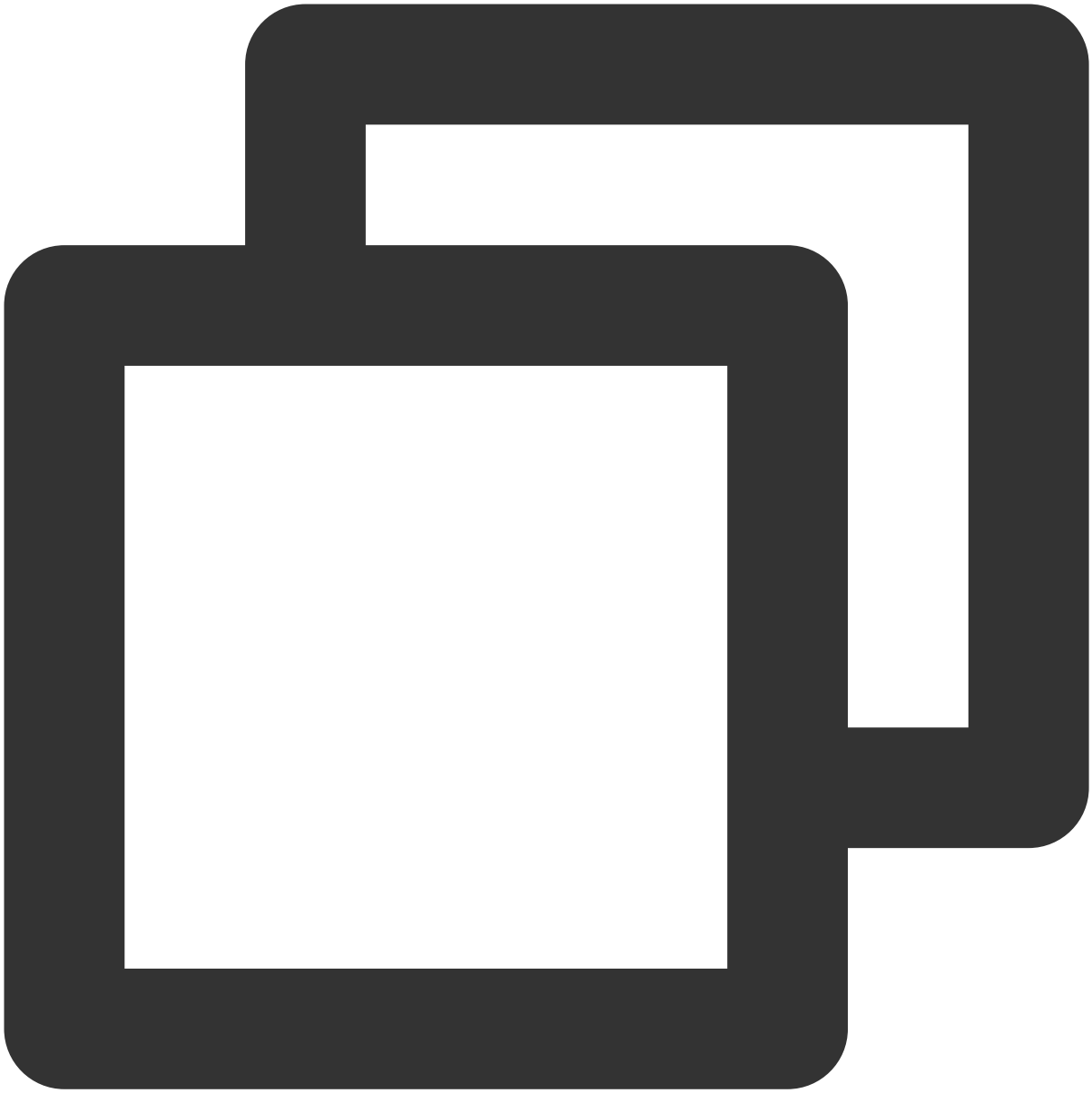

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Wed, 16 Aug 2017 11:59:33 GMT
Server: tencent-cos
x-cos-request-id: NTk5NDMzYTRfMjQ4OGY3Xzc3NGRf****
```

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GET Bucket lifecycle

Last updated：2024-03-28 18:08:33

Feature Description

This API is used to query the lifecycle configuration of a bucket. If no lifecycle rule is configured for the bucket, `NoSuchLifecycleConfiguration` will be returned.

Request

Sample request

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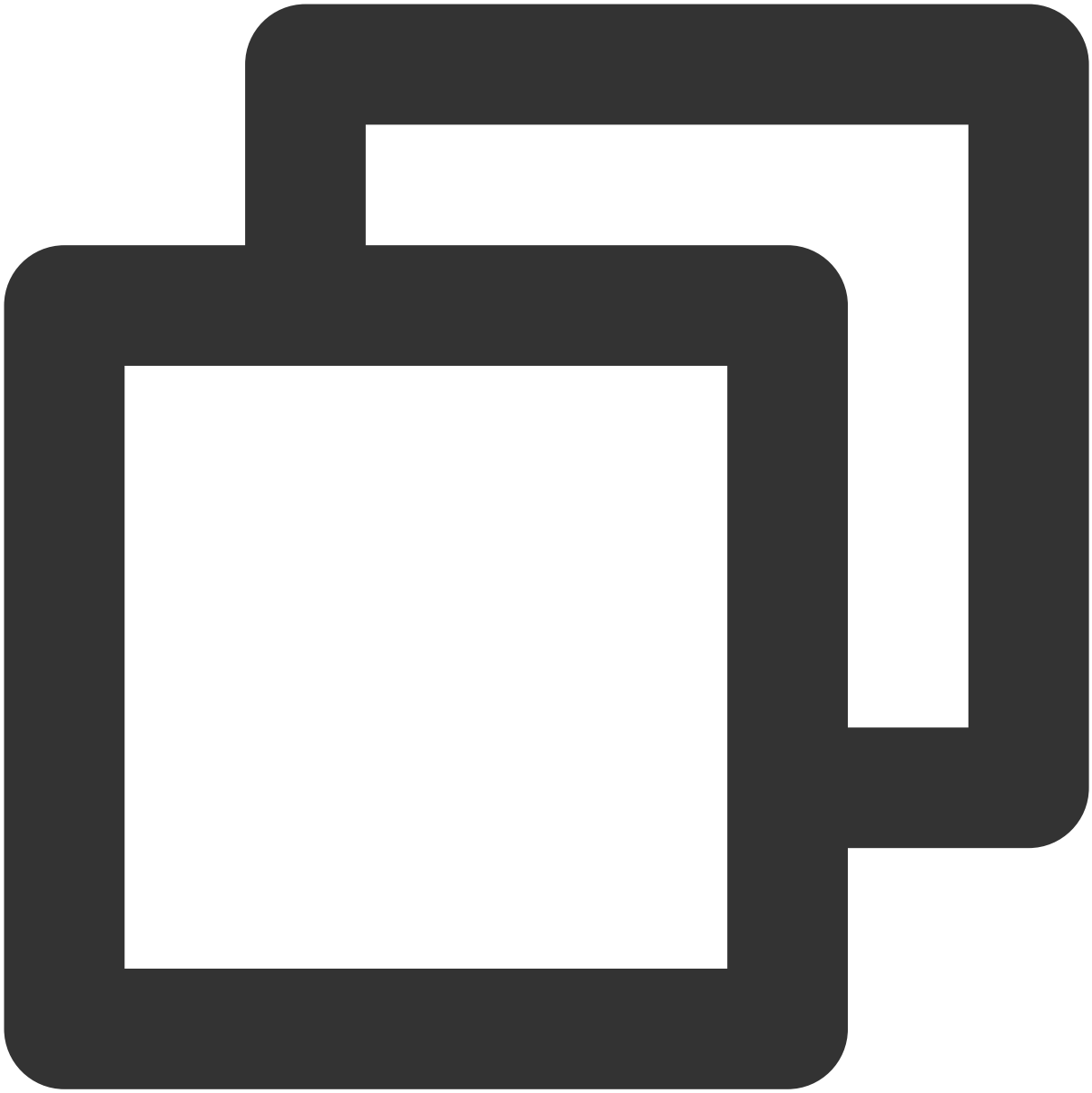

```
GET /?lifecycle HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

Elements in the response body are the same as those in the request body of `PUT Bucket lifecycle`. For more information, please see PUT Bucket lifecycle.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Example

Request

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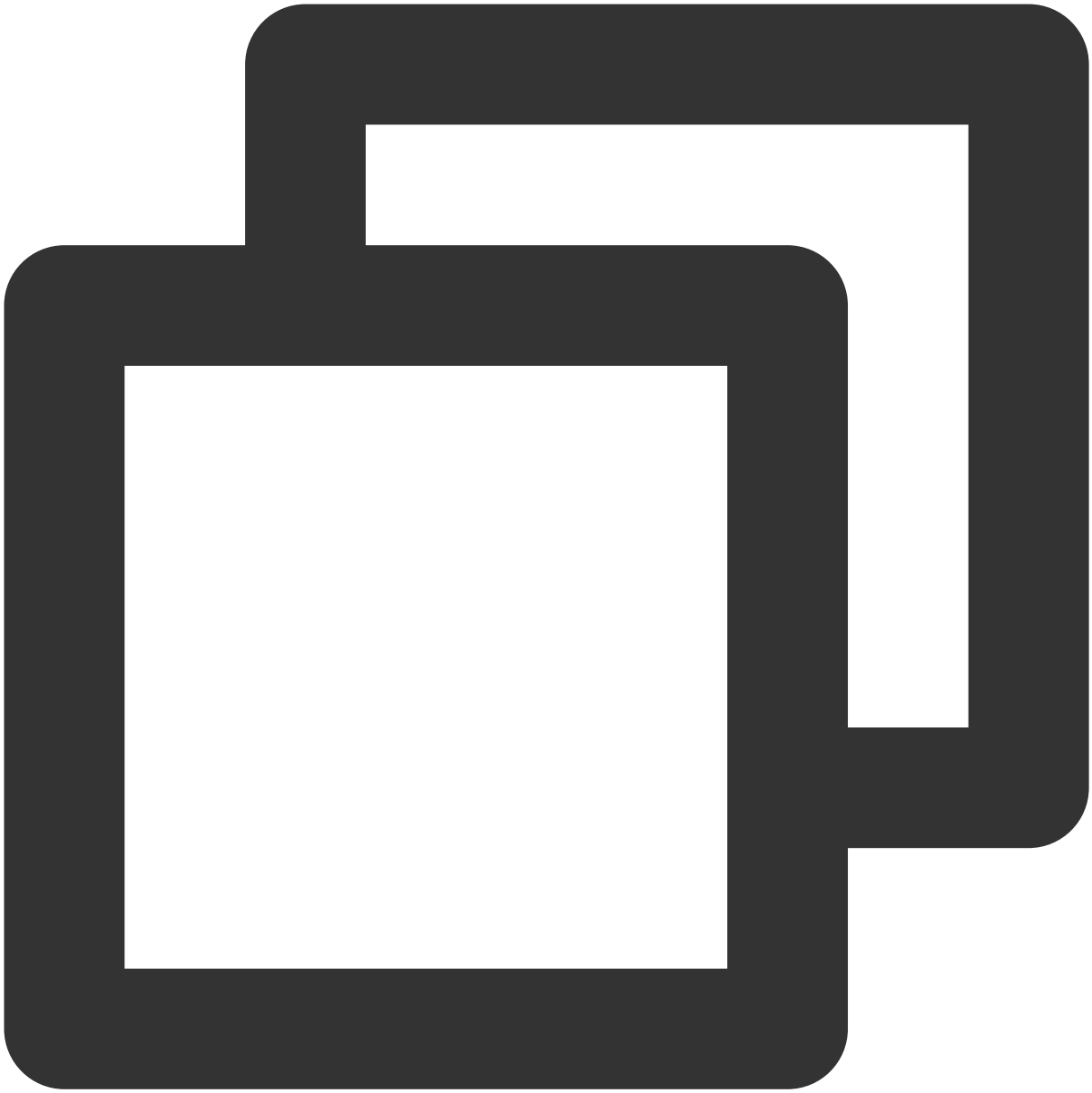

```
GET /?lifecycle HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 16 Aug 2017 12:23:54 GMT
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
```

Response

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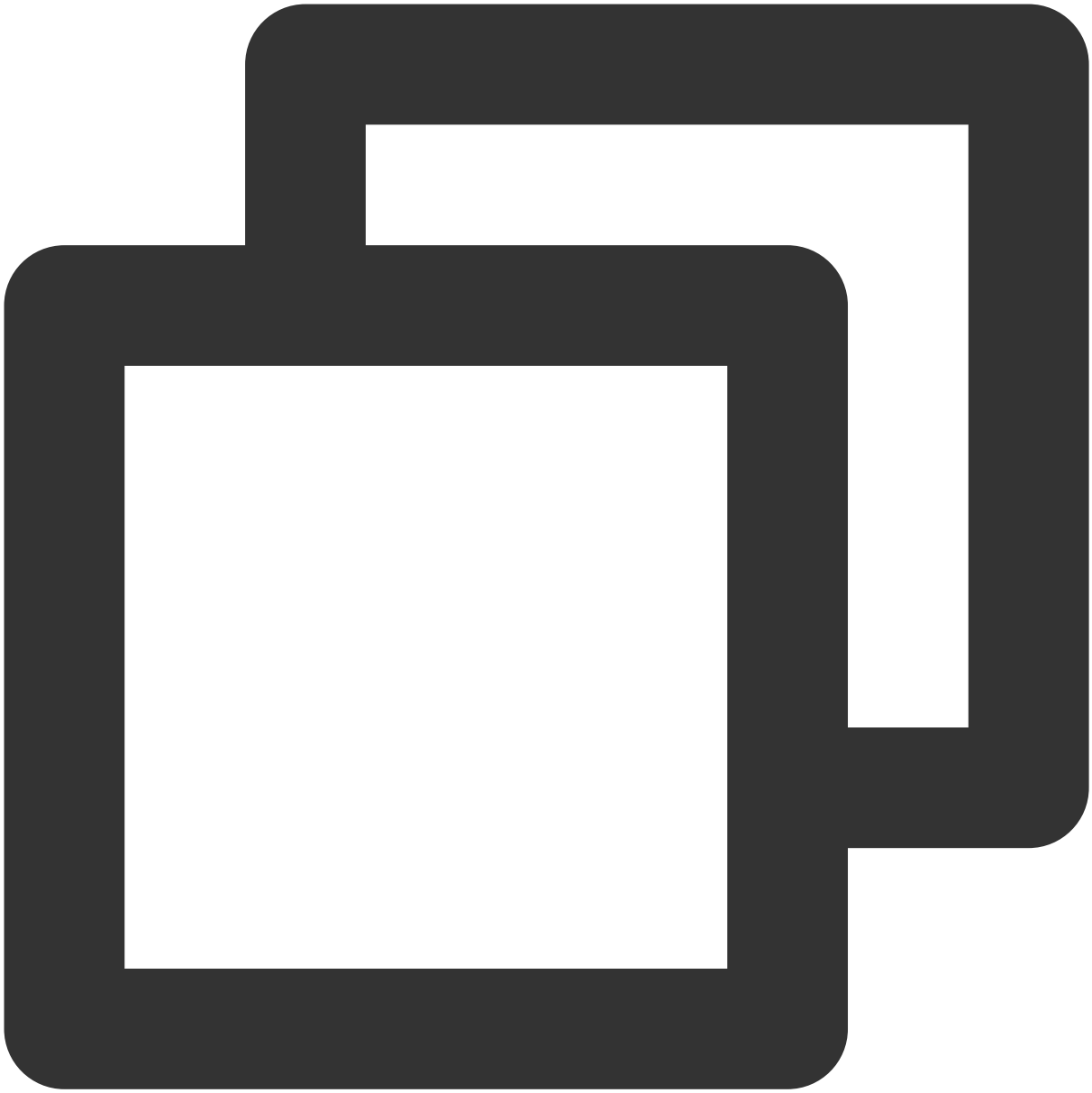

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 312
Date: Wed, 16 Aug 2017 12:23:54 GMT
Server: tencent-cos
x-cos-request-id: NTk5NDM5NWFfMjQ4OGY3Xzc3NGRf****

<LifecycleConfiguration>
  <Rule>
    <ID>id1</ID>
    <Filter>
```

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```
        <Prefix>documents/</Prefix>
      </Filter>
      <Status>Enabled</Status>
      <Transition>
        <Days>100</Days>
        <StorageClass>STANDARD_IA</StorageClass>
      </Transition>
    </Rule>
    <Rule>
      <ID>id2</ID>
      <Filter>
        <Prefix>logs/</Prefix>
      </Filter>
      <Status>Enabled</Status>
      <Expiration>
        <Days>10</Days>
      </Expiration>
    </Rule>
</LifecycleConfiguration>
```

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DELETE Bucket lifecycle

Last updated：2024-03-28 18:08:32

Overview

This API is used to delete the lifecycle configuration set for a bucket. If no lifecycle rule is configured for the bucket, `NoSuchLifecycleConfiguration` will be returned.

Request

Sample request

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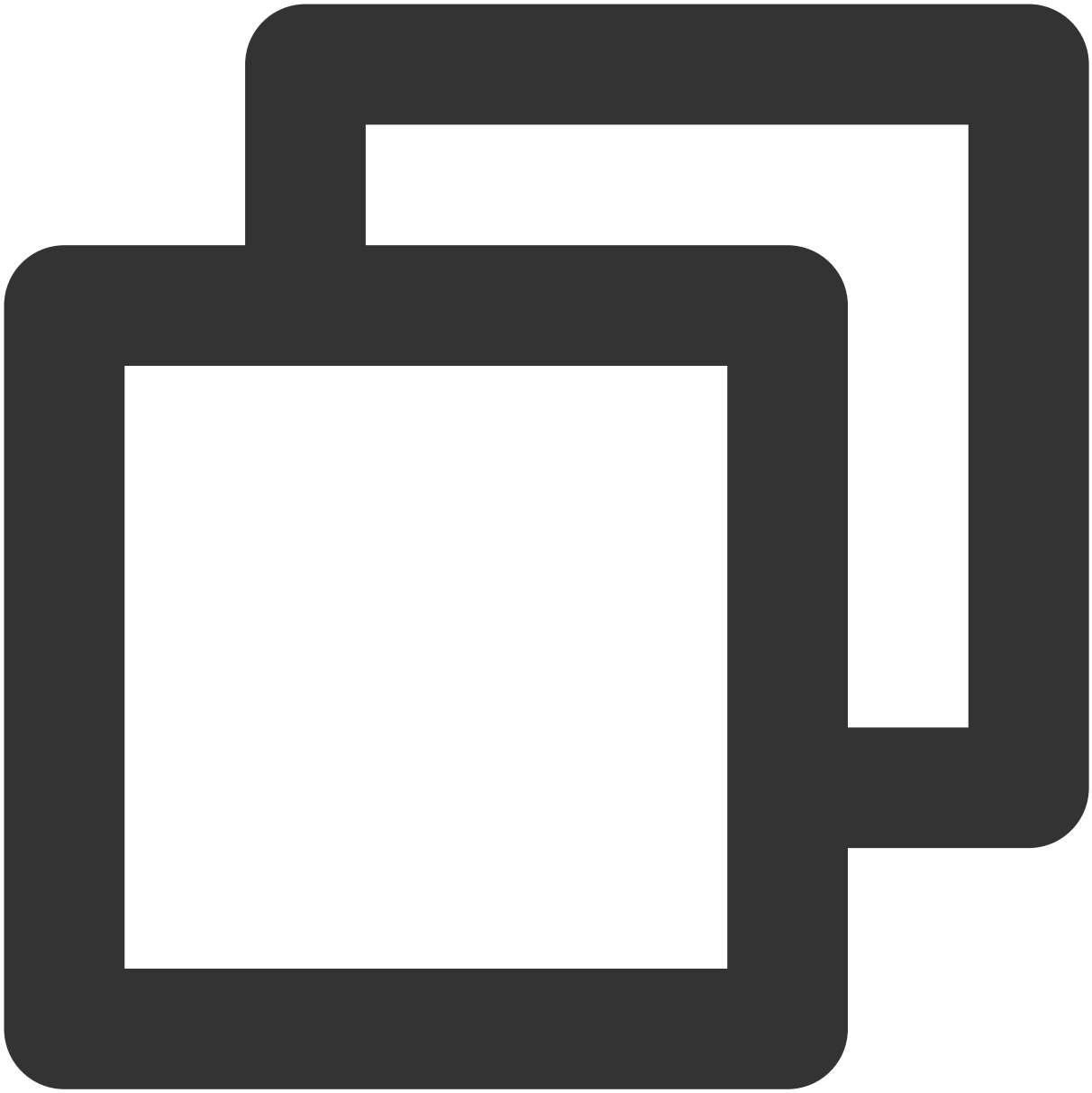

```
DELETE /?lifecycle HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Request

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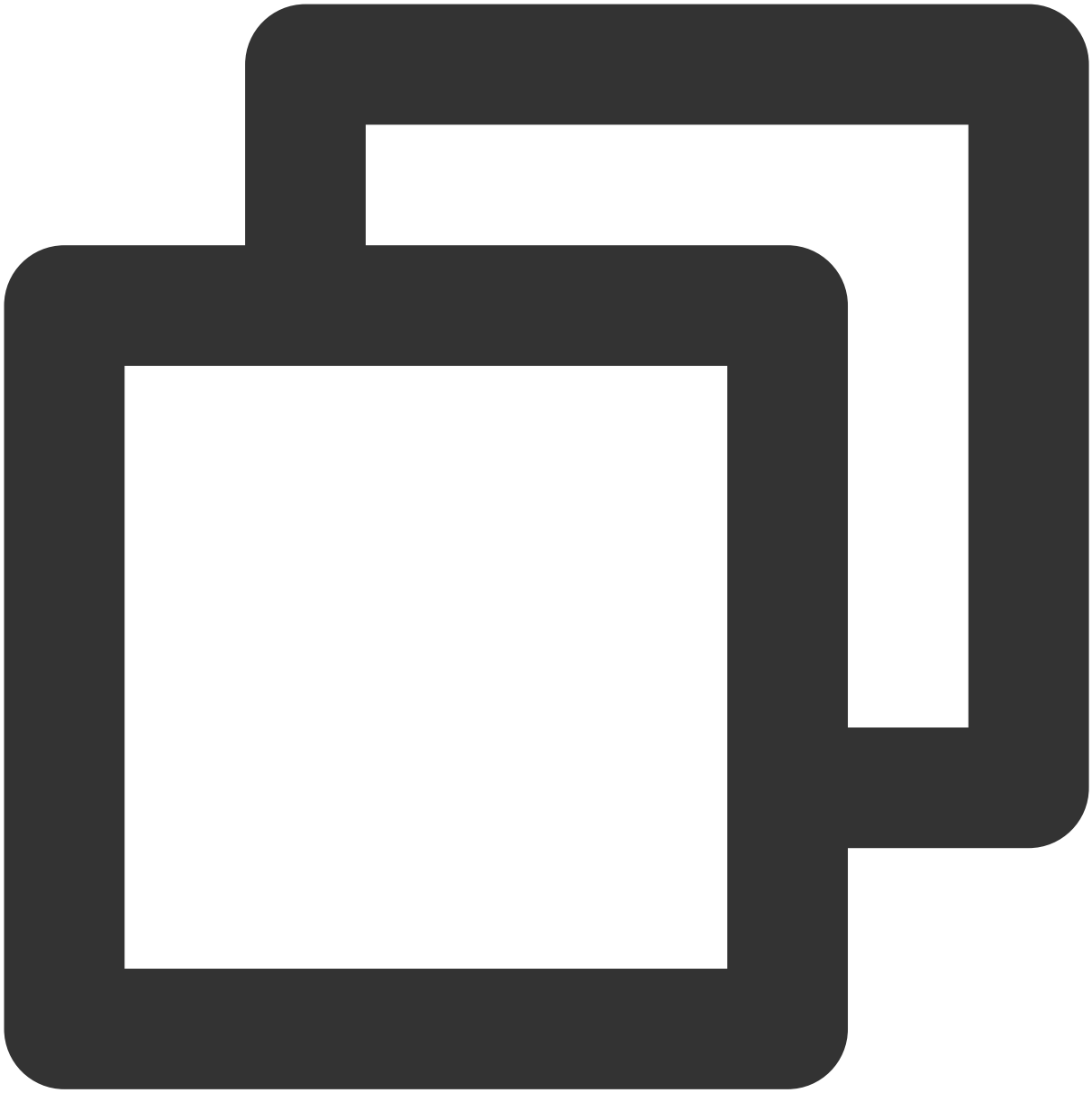

```
DELETE /?lifecycle HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 16 Aug 2017 12:59:09 GMT
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR98JM&q-sig
```

Response

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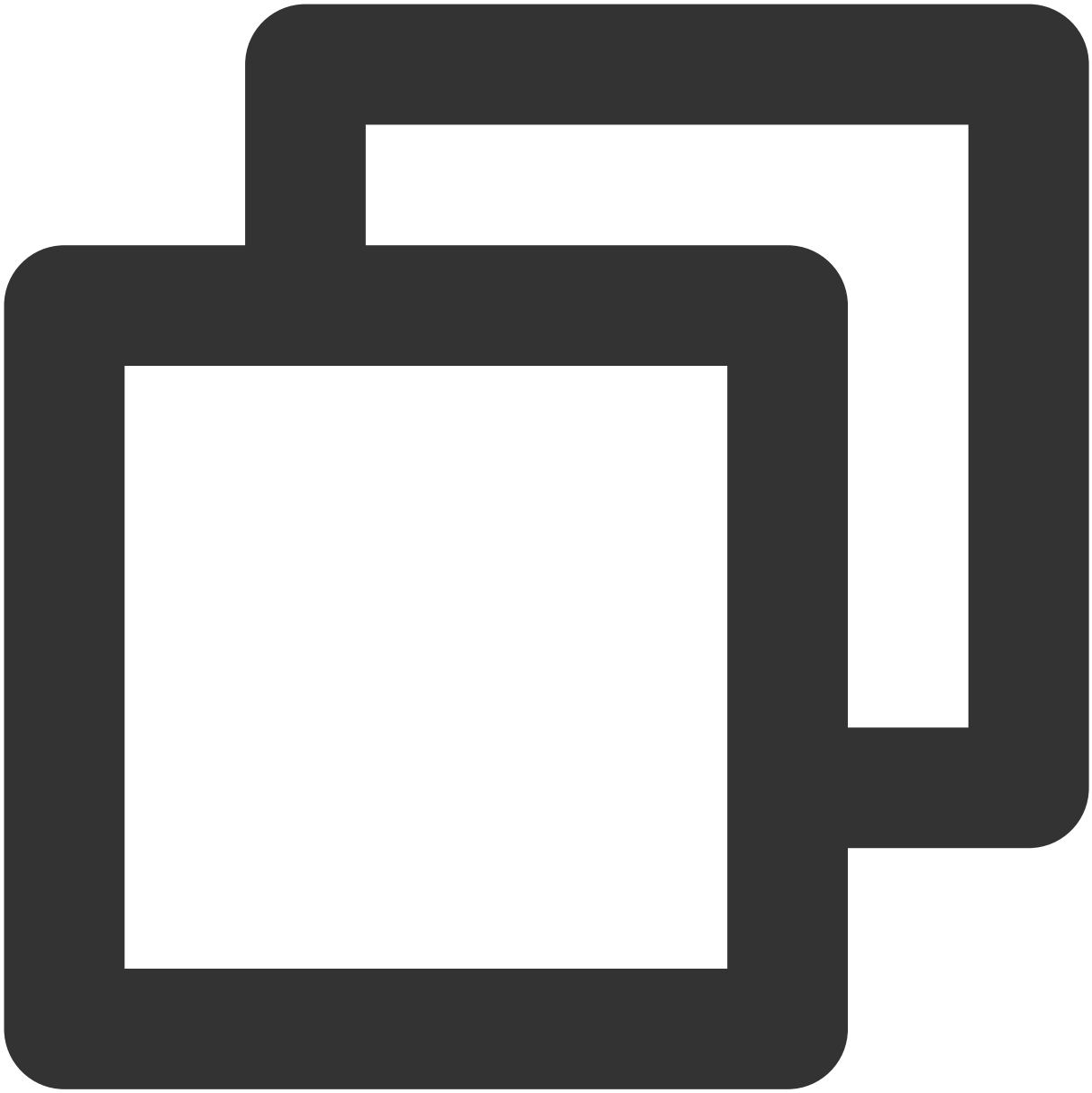

```
HTTP /1.1 204 No Content
Content-Type: application/xml
Date: Wed, 16 Aug 2017 12:59:09 GMT
Server: tencent-cos
x-cos-request-id: NTk5NDQxOWNfMjQ4OGY3Xzc3NGRf****
```

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Bucket Policy (policy)
PUT Bucket policy

Last updated：2024-03-28 18:08:33

Overview

This API is used to write a permission policy for a bucket. The policy passed in this API will overwrite the existing one (if any) in the bucket.

Request

Sample request

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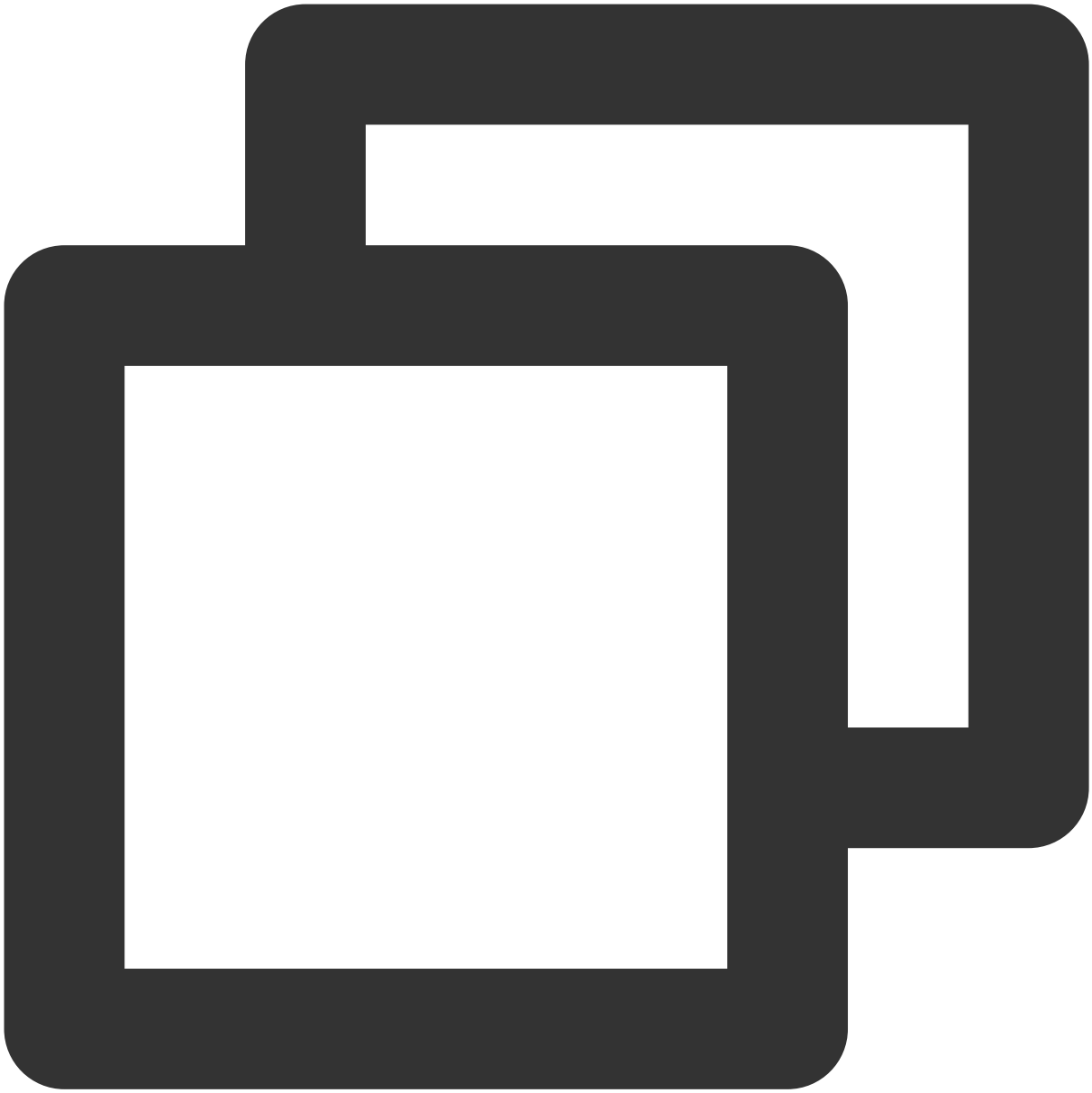

```
PUT /?policy HTTP/1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: date
Content-Type:application/json
Content-MD5:MD5
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

In the following example, the root account (100000000001) grants permission to its sub-account (100000000011) to query the list of objects in the `examplebucket-1250000000` bucket. For more information about the elements used in access policy settings, please see Access Policy Language Overview. For the policy-granting example, please see Working with COS API Access Policies.

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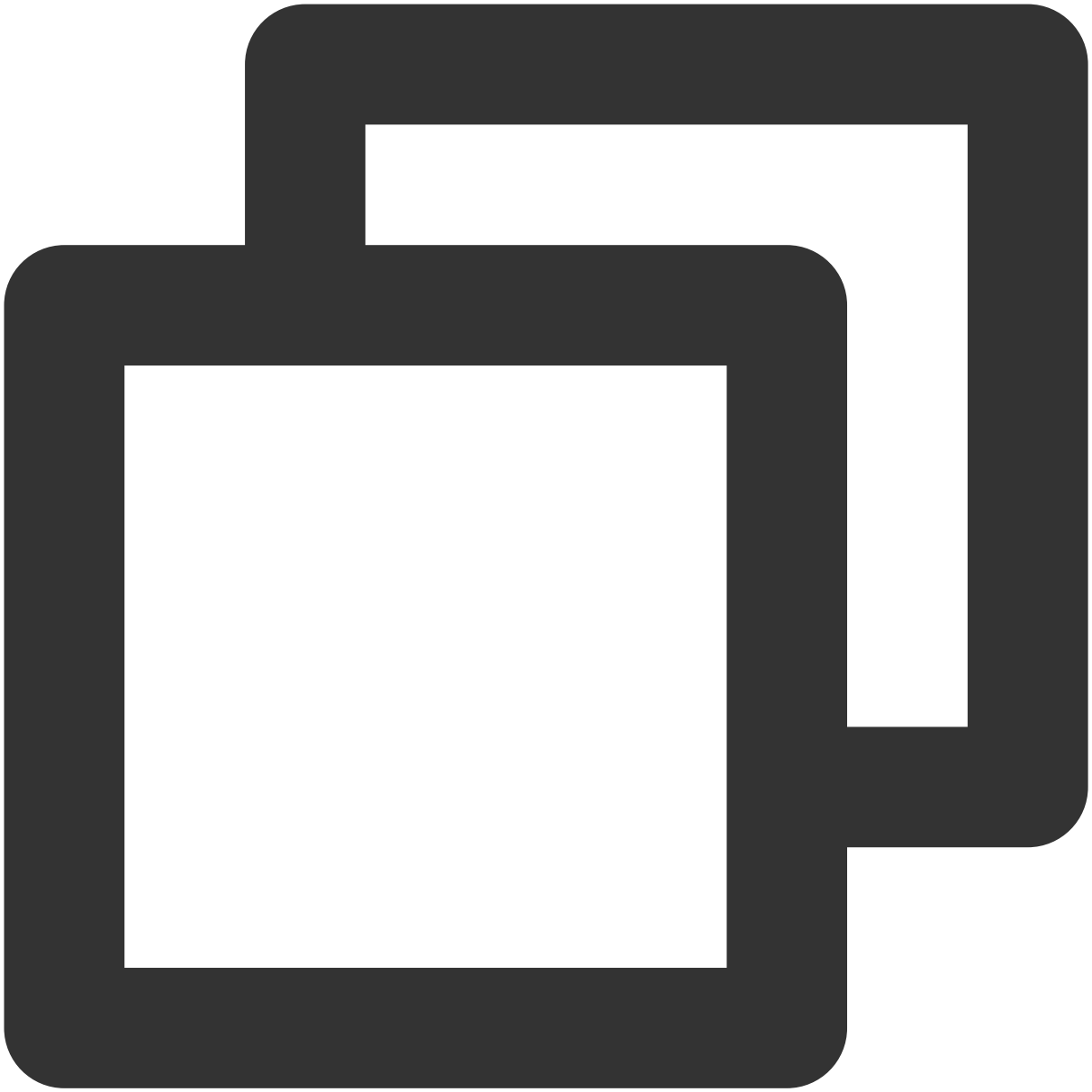

```
{
  "Statement": [
    {
      "Principal": {
        "qcs": [
          "qcs::cam::uin/100000000001:uin/100000000011"
        ]
      },
      "Effect": "allow",
      "Action": [
        "name/cos:GetBucket"
```

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```
        ],
        "Resource": [
          "qcs::cos:ap-guangzhou:uid/1250000000:examplebucket-1250000000/*"
        ]
      }
    ],
    "version": "2.0"
}
```

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Example

Request

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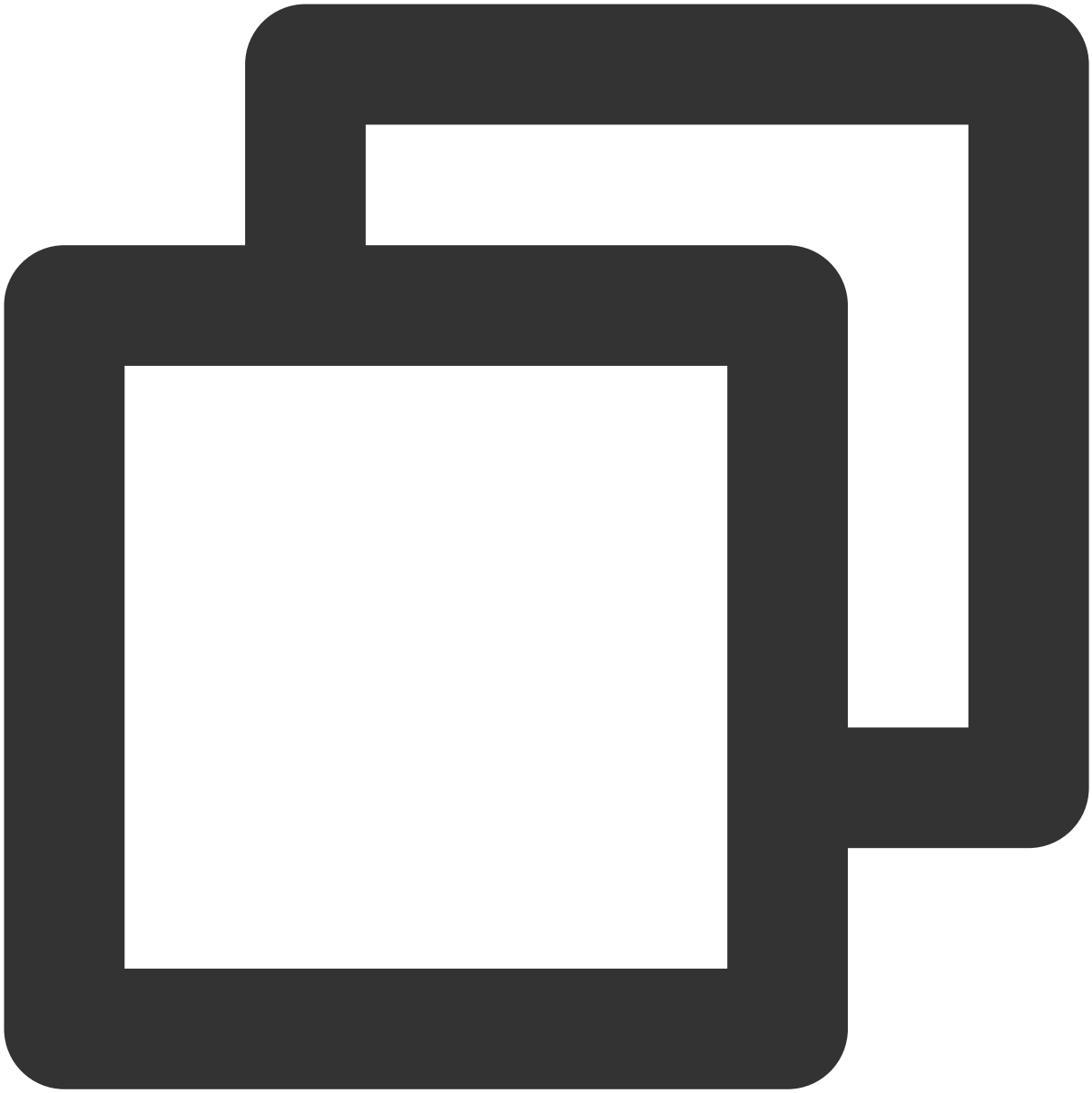

```
PUT /?policy HTTP/1.1
Host: examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
Authorization:q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj****&q-sig
Content-Type: application/json
Content-Length: 233

{
  "Statement": [
    {
      "Principal": {
        "qcs": [
```

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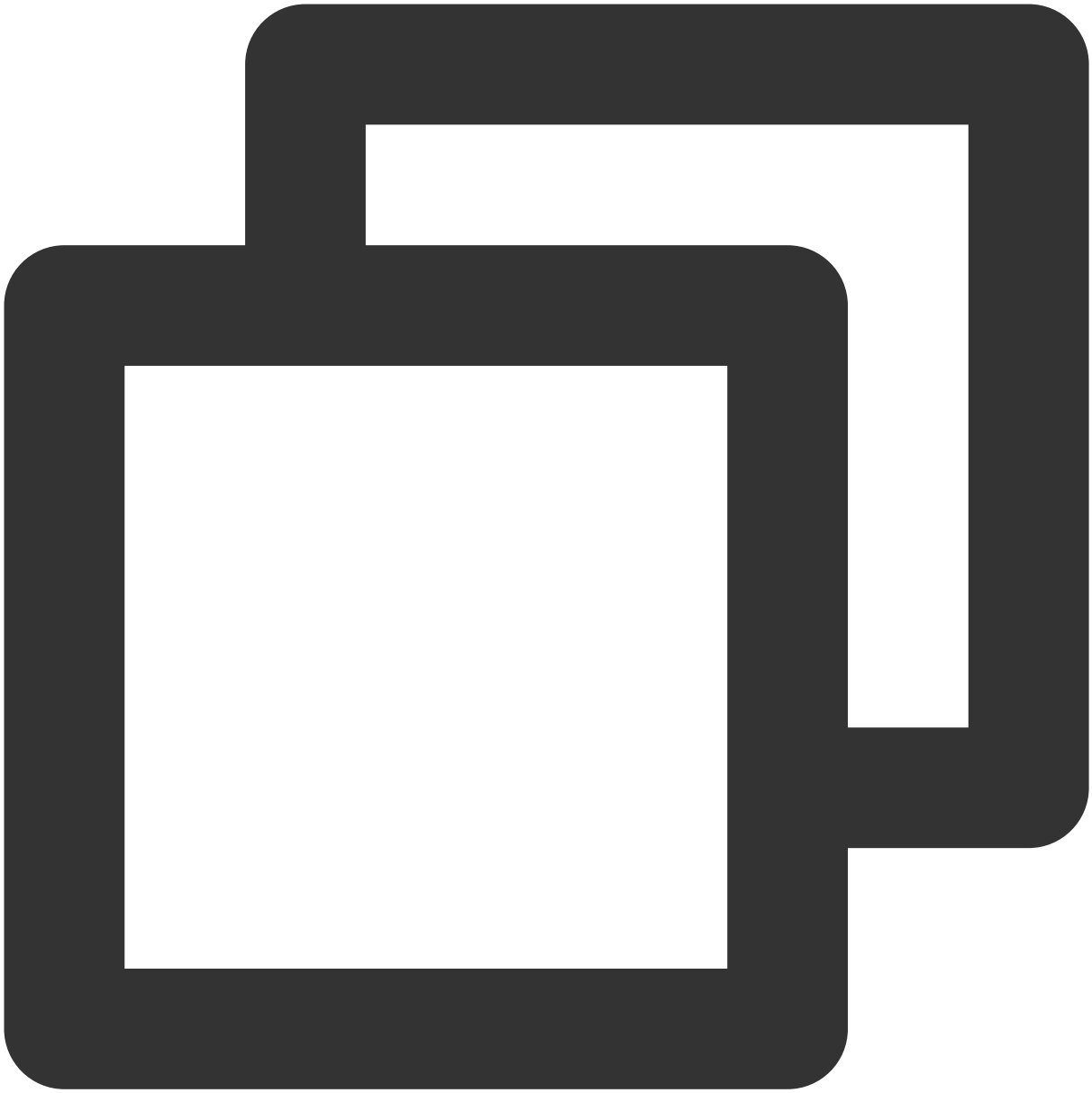
```
            "qcs::cam::uin/100000000001:uin/100000000001"
          ]
        },
        "Effect": "allow",
        "Action": [
          "name/cos:GetBucket"
        ],
        "Resource": [
          "qcs::cos:ap-guangzhou:uid/1250000000:examplebucket-1250000000/*"
        ]
      }
    ],
    "version": "2.0"
}
```

Response



```
HTTP/1.1 204 No Content
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Thu Jan 19 16:19:22 2017
Server: tencent-cos
x-cos-request-id: NTg4MDc2OGFfNDUyMDRlXzc3NTlf****
```

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GET Bucket policy

Last updated：2024-03-28 18:08:33

Feature Description

This API is used to read the permission policy of a bucket.

Request

Sample request

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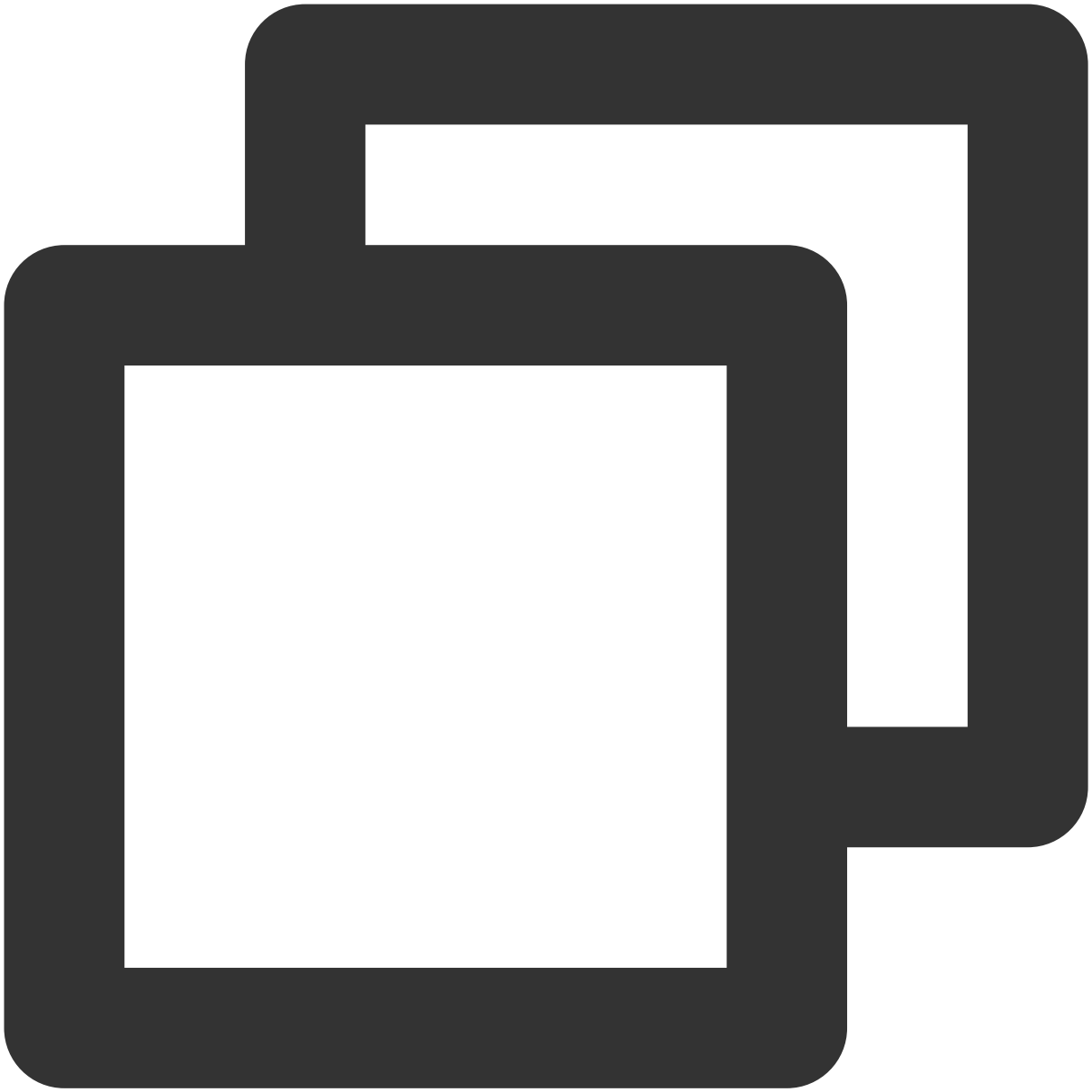

```
GET /?policy HTTP/1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date:date
Authorization: Auth String
```

Note:

Host: <BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the bucket name followed by the `APPID` , such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The permission policy is returned in the response body.

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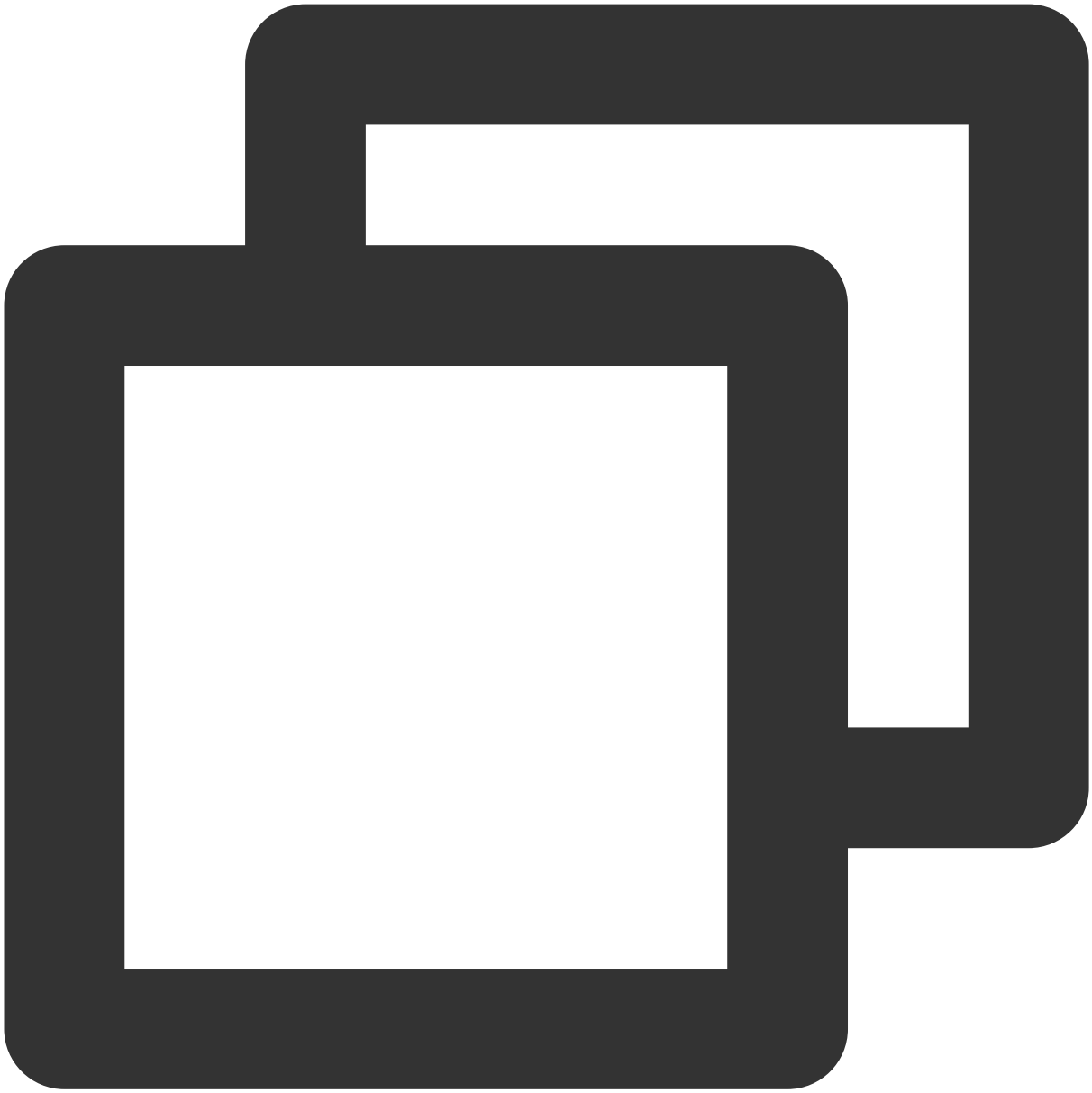

```
{
  "Statement":[
    {
      "Principal":{
        "qcs":[
          "qcs::cam::uin/100000000001:uin/100000000001"
        ]
      },
      "Effect": "allow",
      "Action":[
        "name/cos:GetBucket"
```

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```
        ],
        "Resource":[
          "qcs::cos:ap-guangzhou:uid/1250000000:examplebucket-1250000000/*"
        ]
      }
    ],
    "version": "2.0"
}
```

For more information on elements in an access policy, see Overview.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Request

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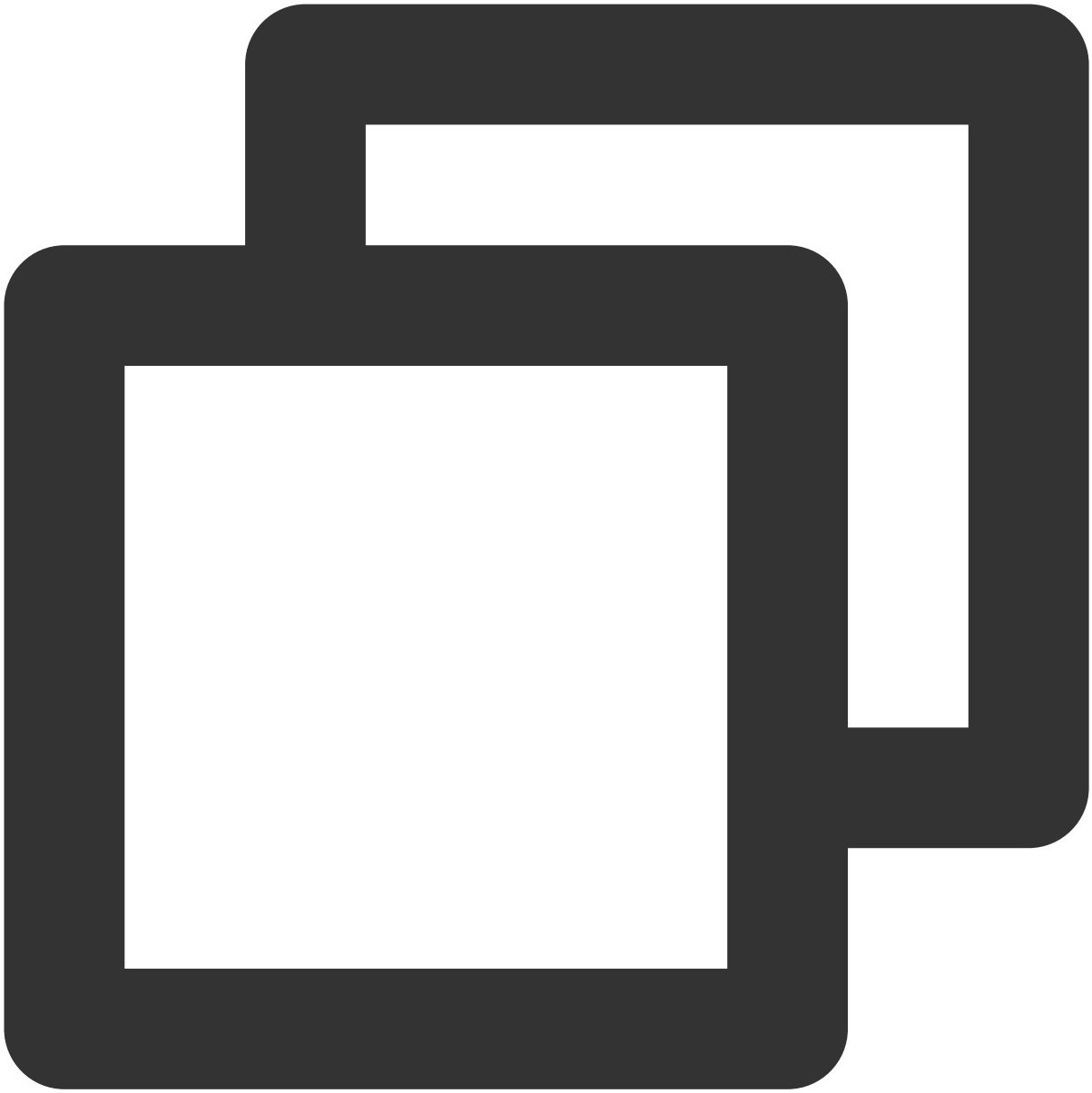

```
GET /?policy HTTP/1.1
Host:examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
Authorization:q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj****&q-sig
```

Response

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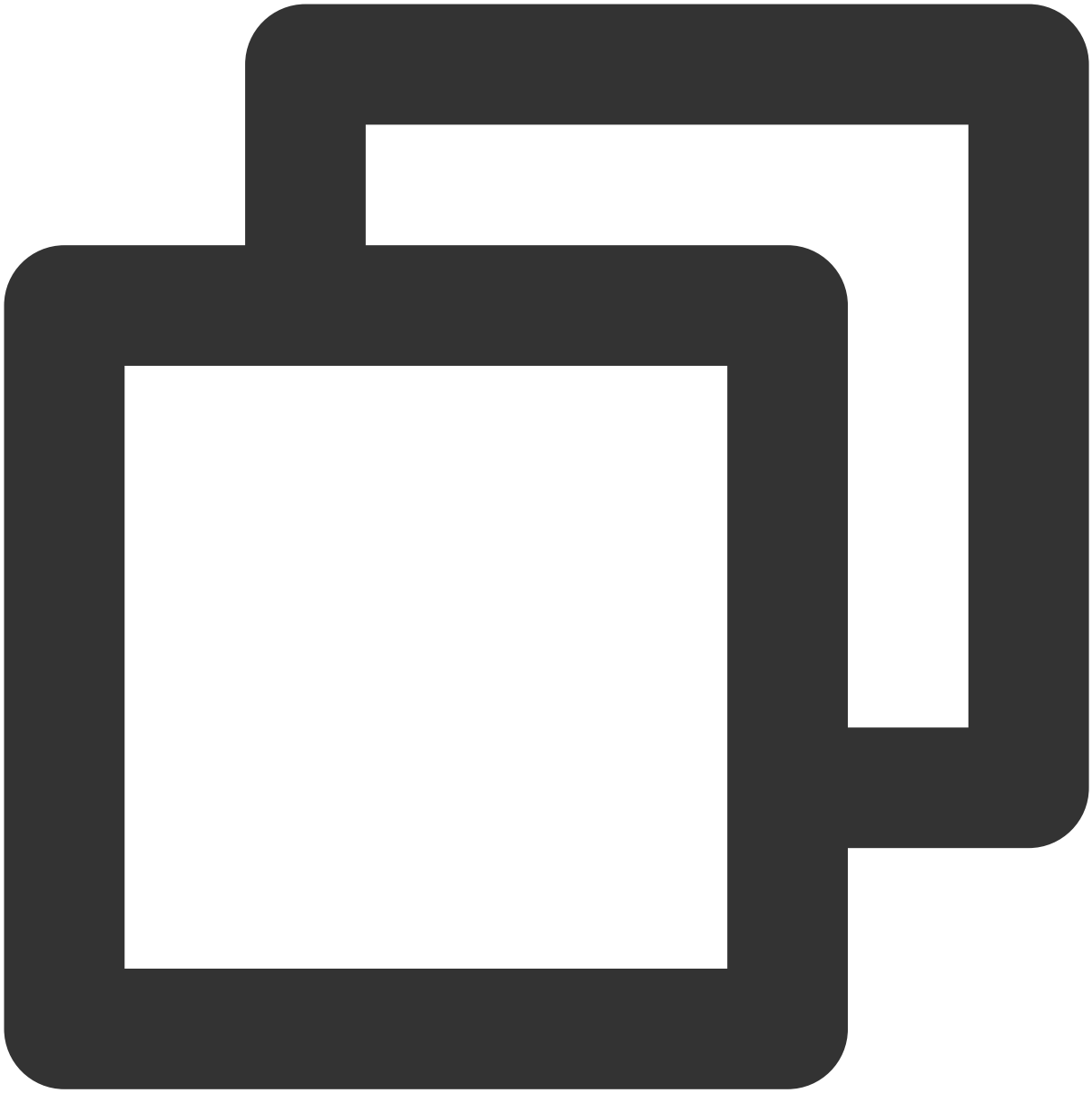

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 237
Connection: keep-alive
Date: Thu Jan 19 16:21:46 2017
Server: tencent-cos
x-cos-request-id: NTg4MDc3MWFfOWIxZjRlXzZmNDVf****

{
  "Statement":[
    {
```

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```
        "Principal":{
          "qcs":[
            "qcs::cam::uin/100000000001:uin/100000000001"
          ]
        },
        "Effect": "allow",
        "Action":[
          "name/cos:GetBucket"
        ],
        "Resource":[
          "qcs::cos:ap-guangzhou:uid/1250000000:examplebucket-1250000000/*"
        ]
      }
    ],
    "version": "2.0"
}
```

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DELETE Bucket policy

Last updated：2024-03-28 18:08:33

Overview

This API is used to delete a permission policy of a bucket.

Note:

Only the bucket owner can call this API. If the permission policy does not exist, "204 No Content" will be returned.

Request

Sample request

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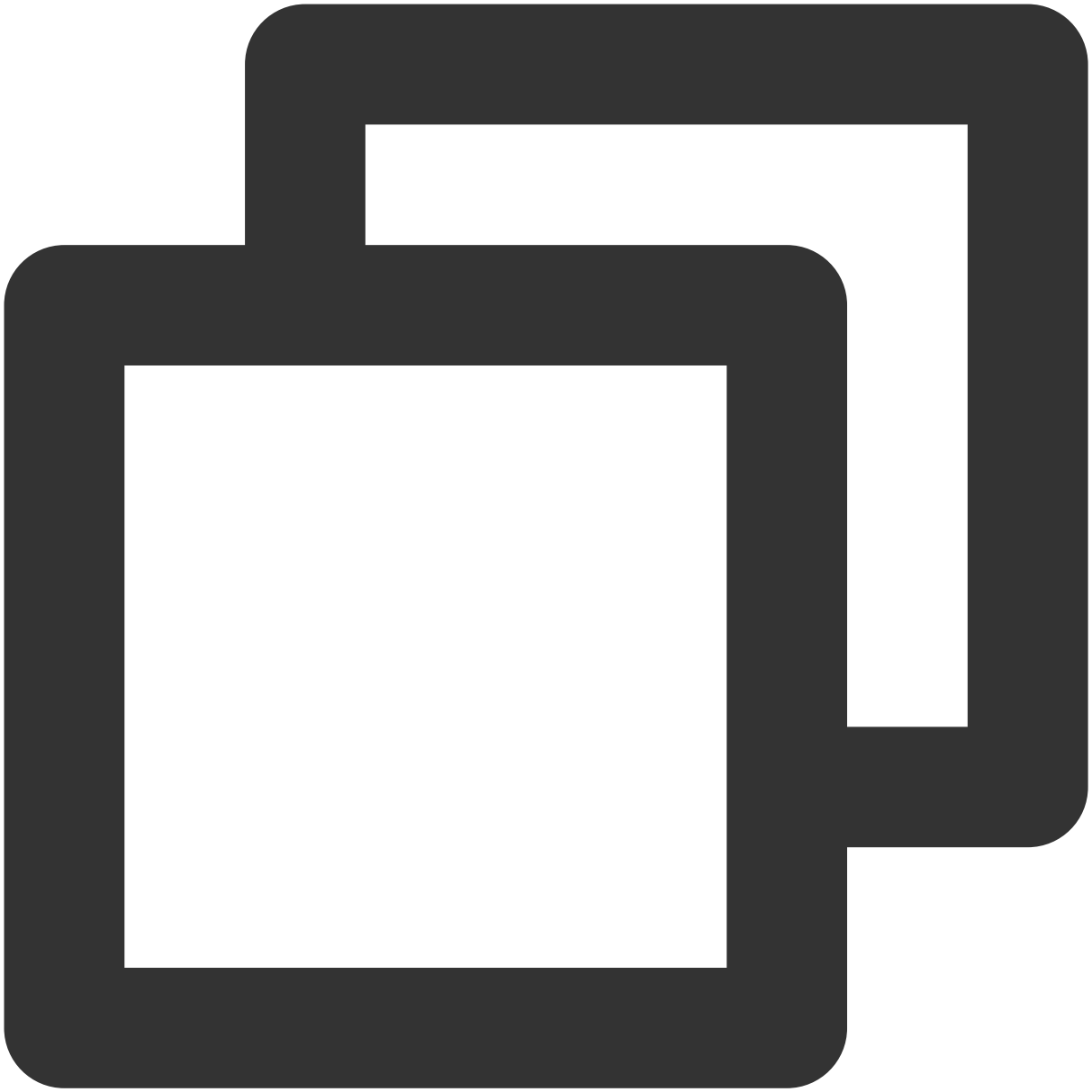

```
DELETE /?policy HTTP/1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic

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Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

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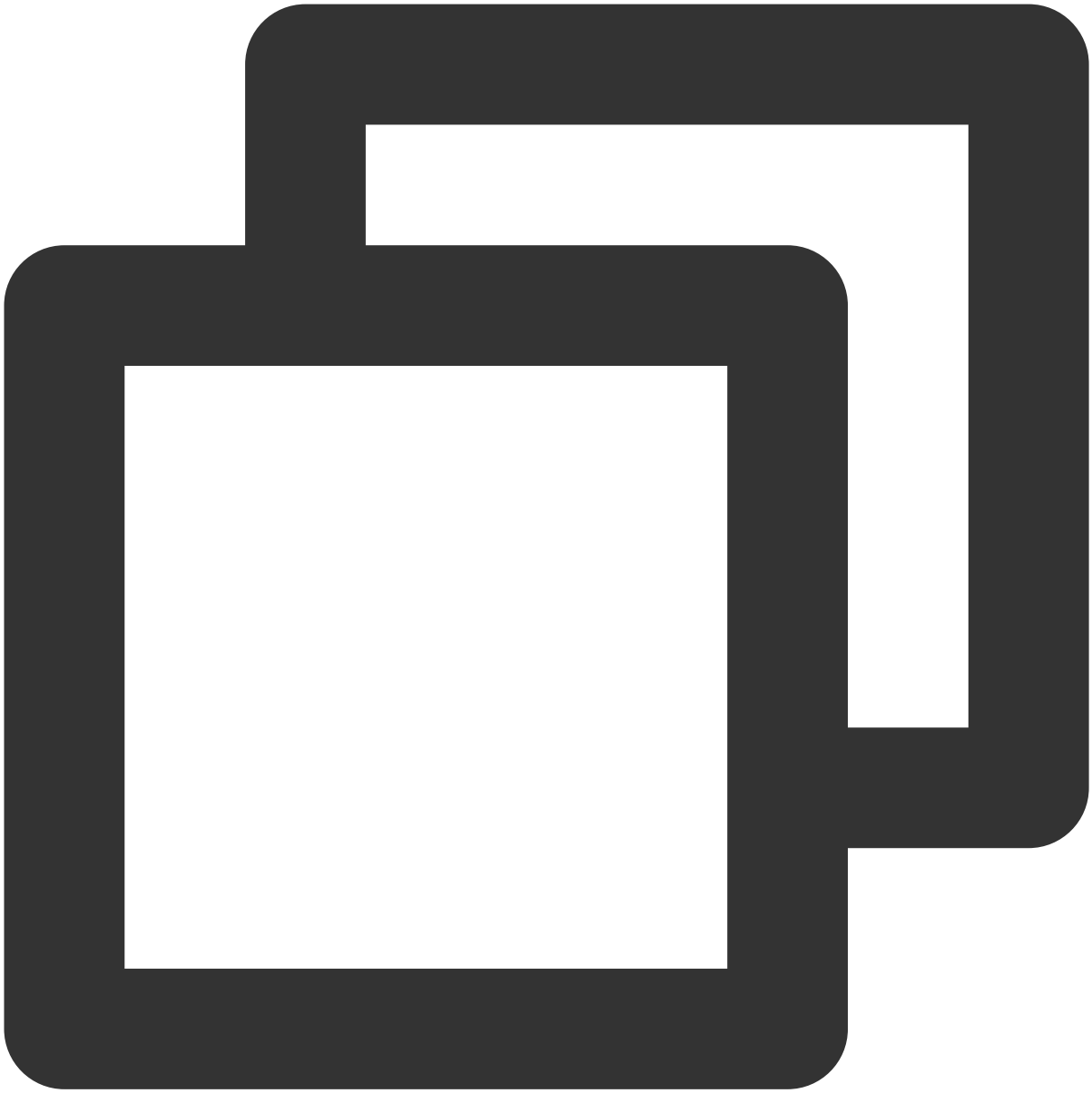

```
DELETE /?policy HTTP/1.1
Host: examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
Authorization:q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj****&q-sig
```

Response

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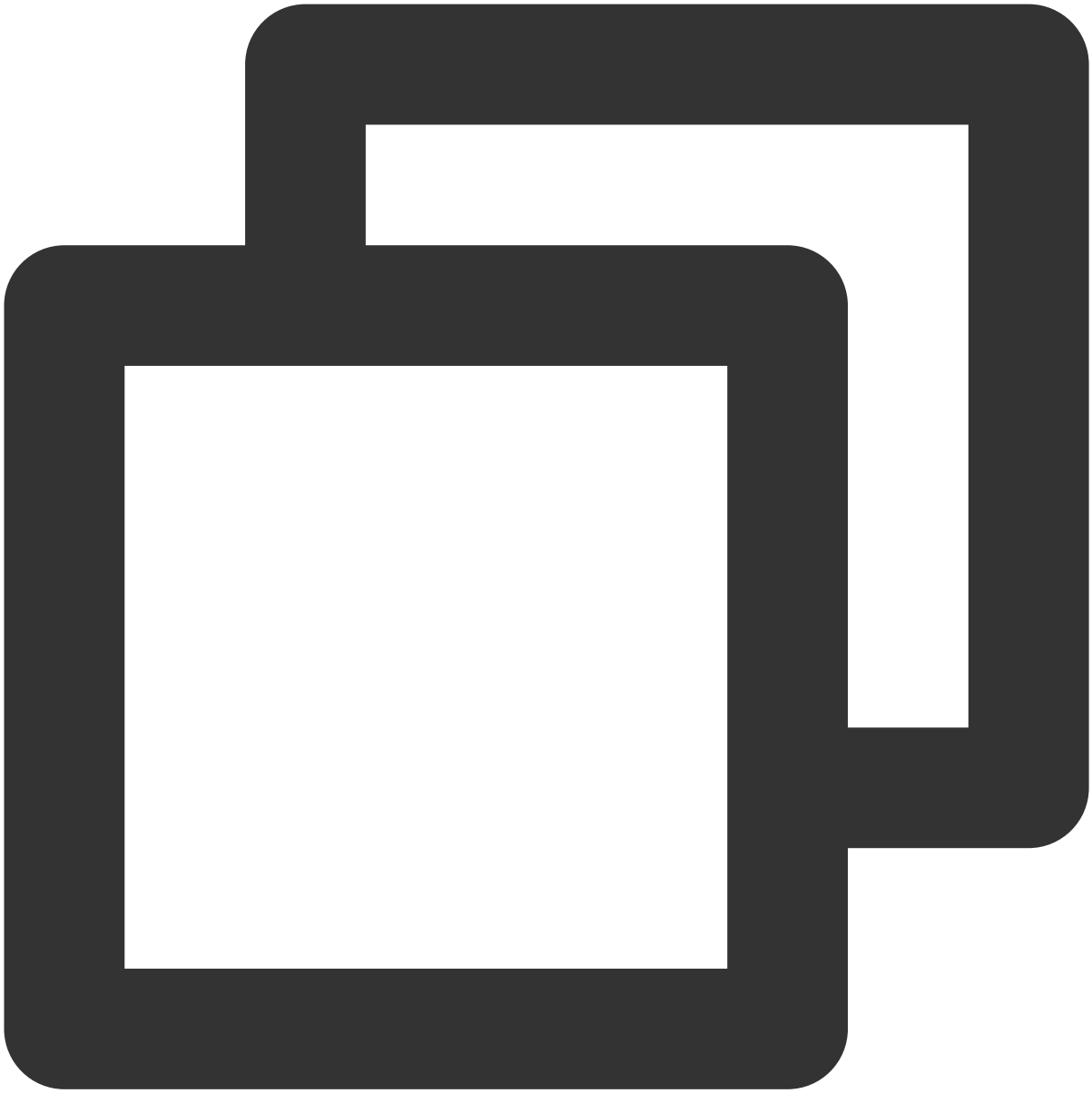

```
HTTP/1.1 204 No Content
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Thu Jan 19 16:30:21 2017
Server: tencent-cos
x-cos-request-id: NTg4MDc5MWRfNDQyMDRlXzNiMDRf****
```

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Hotlink Protection (referer)
PUT Bucket referer

Last updated：2024-03-28 18:08:33

Overview

This API is used to set the referer allowlist/blocklist for a bucket.

Request

Sample request

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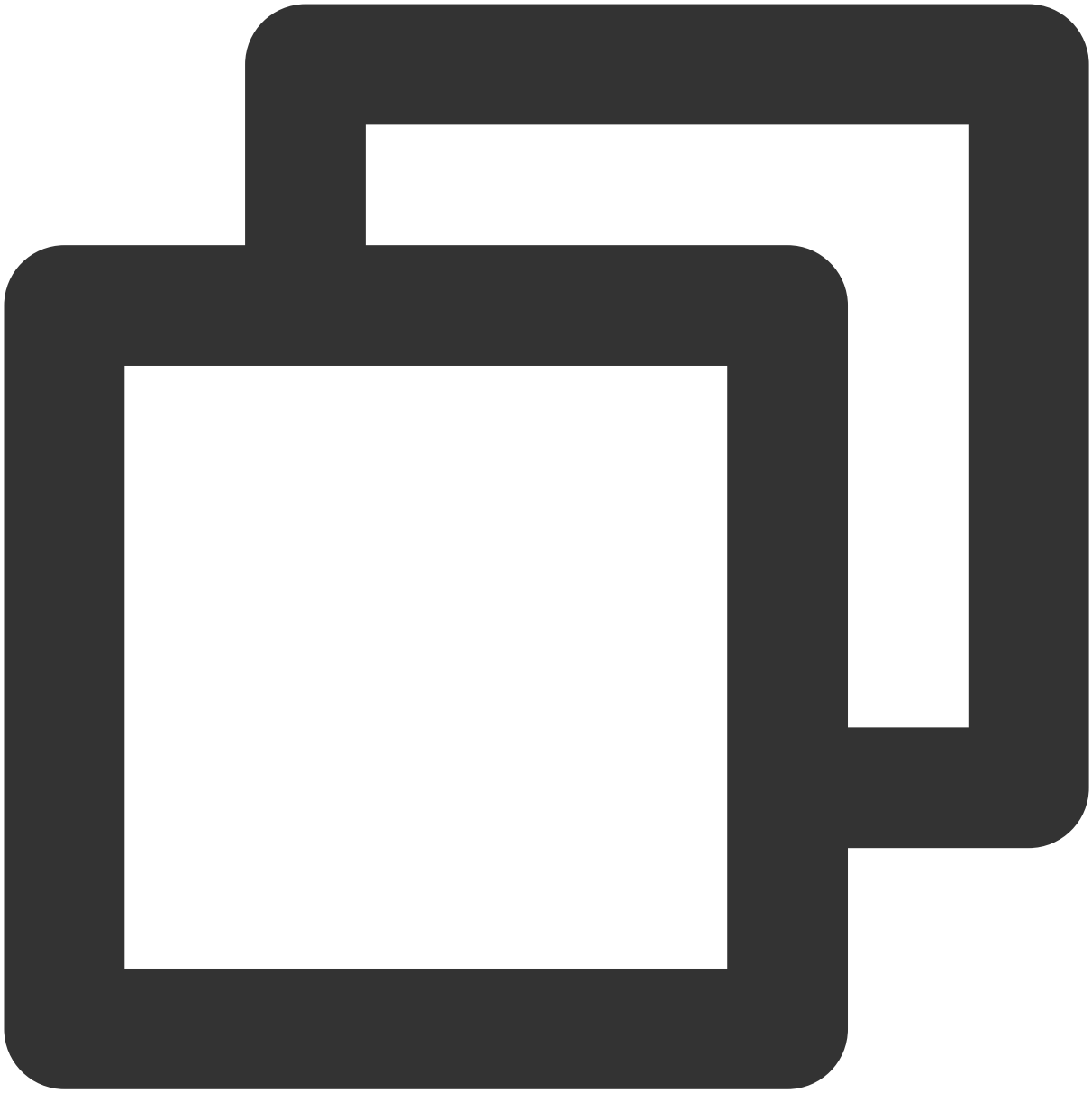

```
PUT /?referer HTTP 1.1
Host:<BucketName-APPID>.<Region>.myqcloud.com
Date:GMT Date
Authorization: Auth String
Content-Length:length
Content-MD5:MD5
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

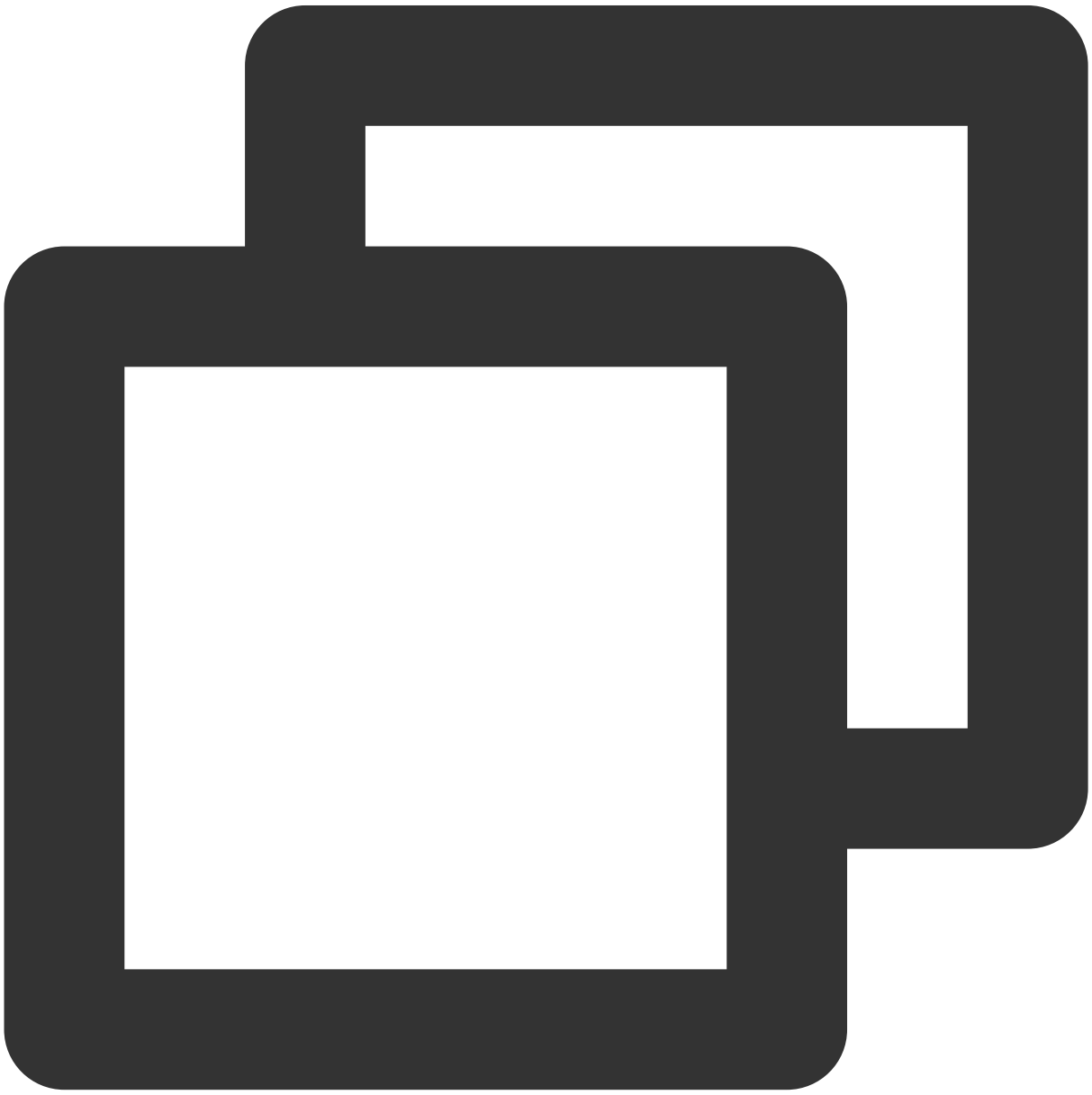
Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The nodes of the request body are as follows:



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```
<RefererConfiguration>
  <Status>Enabled</Status>
  <RefererType>White-List</RefererType>
  <DomainList>
    <Domain>*.qq.com</Domain>
    <Domain>*.qcloud.com</Domain>
  </DomainList>
  <EmptyReferConfiguration>Allow</EmptyReferConfiguration>
</RefererConfiguration>
```

The nodes are described as follows:

Node Name	Parent Node	Description	Type	Required
RefererConfiguration	None	Hotlink protection configuration	Container	Yes
Status	RefererConfiguration	Whether to enable hotlink protection. Enumerated values: `Enabled`, `Disabled`	String	Yes
RefererType	RefererConfiguration	Hotlink protection type. Enumerated values: `Black-List`, `White-List`	String	Yes
DomainList	RefererConfiguration	A list of domain names in the blocklist/allowlist. Using a prefix to specify multiple domains is supported. Domain names and IPs with ports are supported. A wildcard (*) is supported for second-level or multi-level domains.	Container	Yes
Domain	DomainList	A single domain in the blocklist/allowlist, such as `www.qq.com/example`, `192.168.1.2:8080`, or `*.qq.com`	String	Yes
EmptyReferConfiguration	RefererConfiguration	Whether to allow access with an empty referer. Enumerated	String	No

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		values: `Allow` , `Deny` (default)		

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Example

Request

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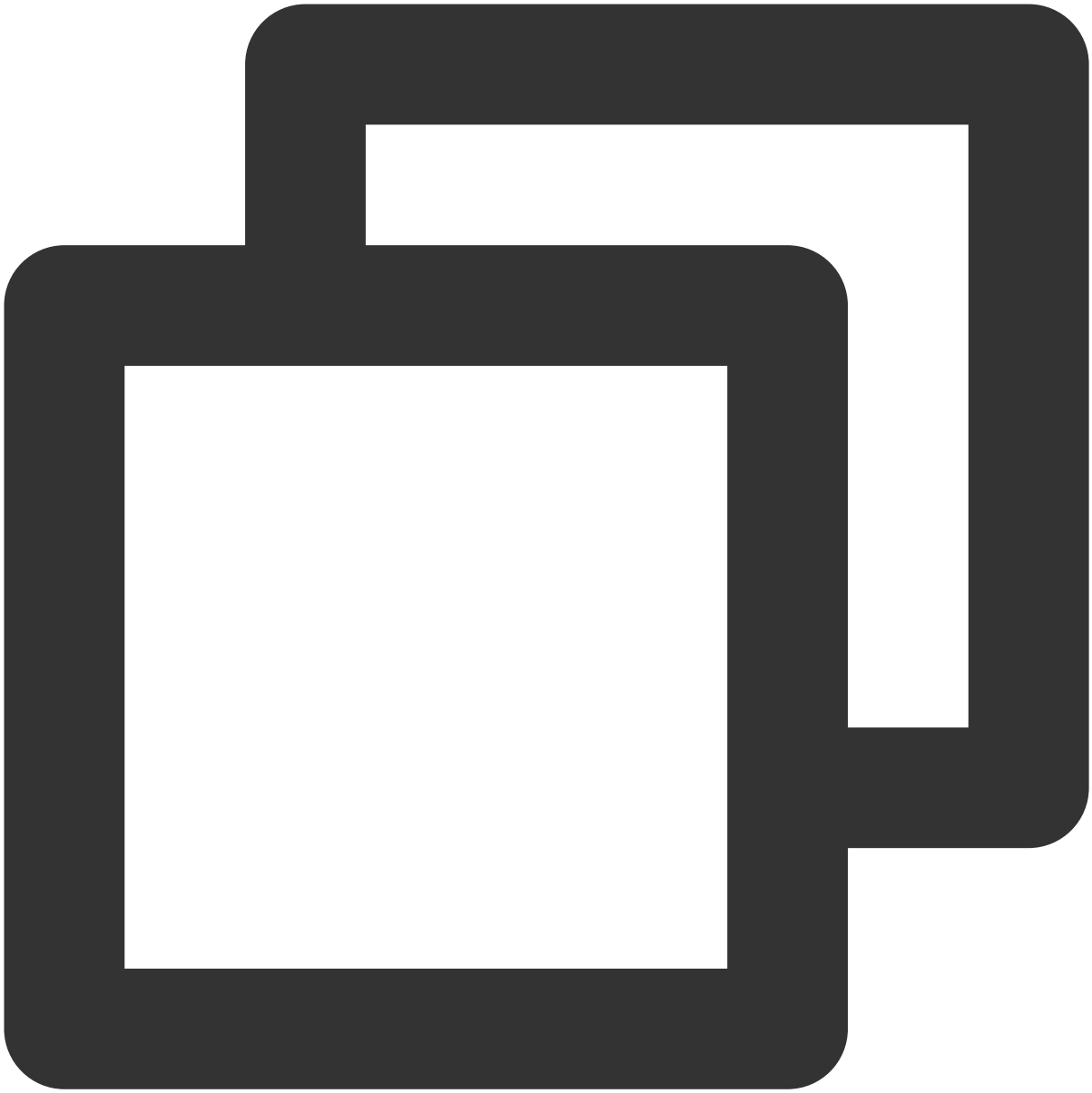

```
PUT /?referer HTTP 1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 25 Feb 2017 04:10:22 GMT
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Content-MD5: kOz7g54LMJZjxKs070V9jQ==
Content-Type: application/xml

<RefererConfiguration>
  <Status>Enabled</Status>
  <RefererType>White-List</RefererType>
  <DomainList>
```

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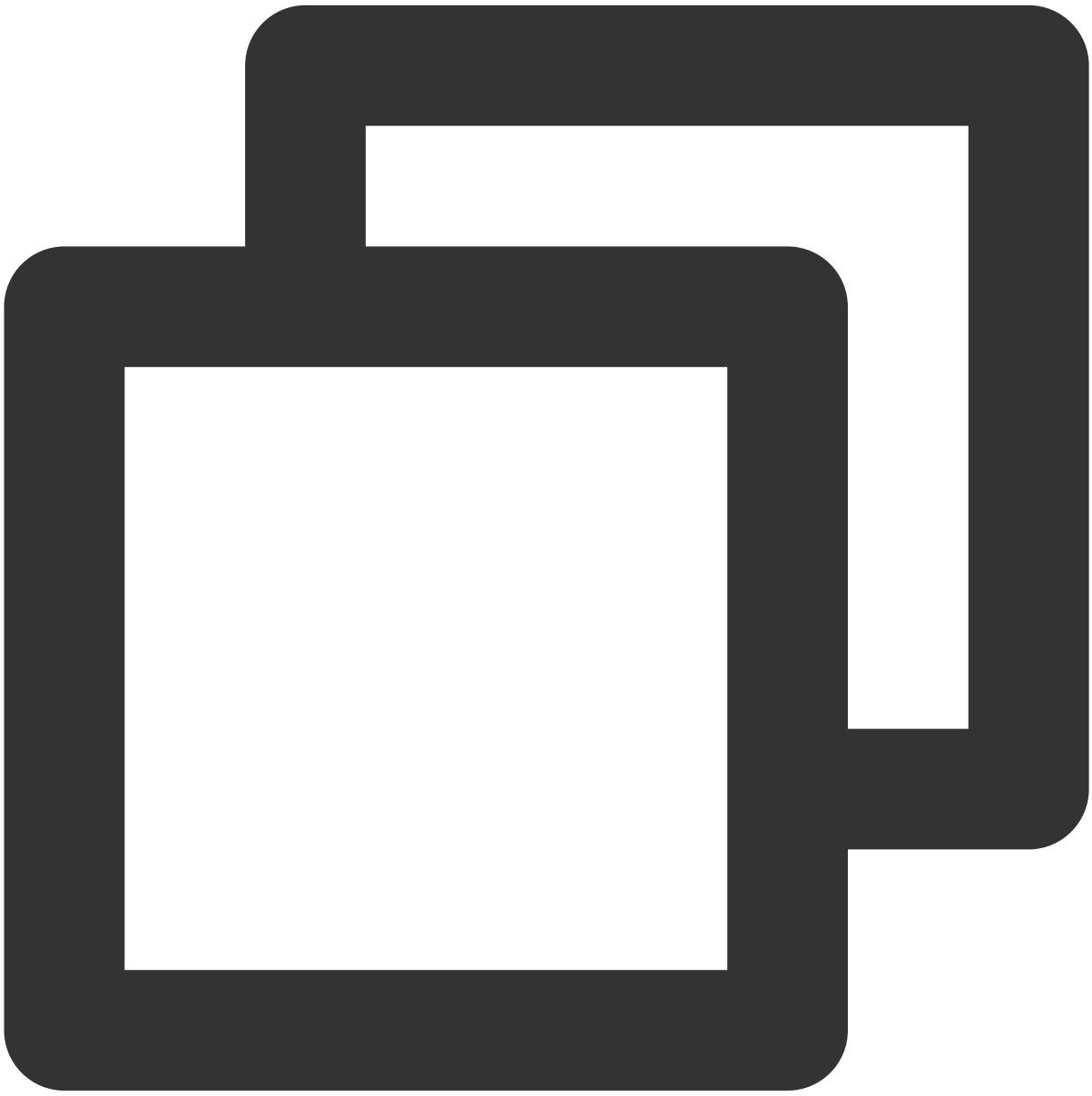
```
    <Domain>*.qq.com</Domain>
    <Domain>*.qcloud.com</Domain>
  </DomainList>
  <EmptyReferConfiguration>Allow</EmptyReferConfiguration>
</RefererConfiguration>
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
```

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```
Date: Fri, 25 Feb 2017 04:10:22 GMT
Server: tencent-cos
x-cos-request-id: NTg3ZjFjMmJfOWIxZjRlXzZmNDhf****
```

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GET Bucket Referer

Last updated：2024-03-28 18:08:32

Overview

This API is used to read the referer allowlist/blocklist of a bucket.

Request

Sample request

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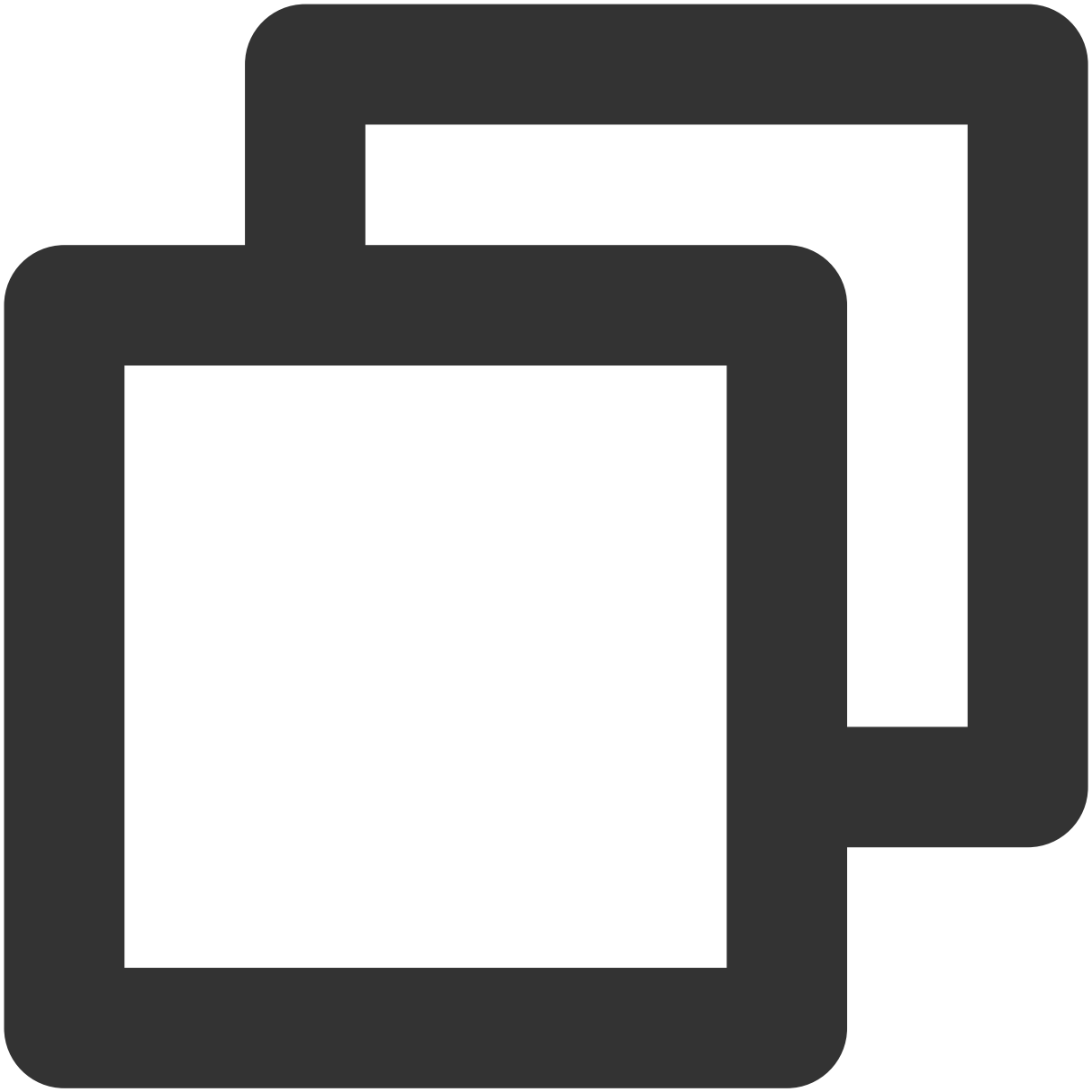

```
GET /?referer HTTP 1.1
Host:<BucketName-APPID>.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic

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Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

This response body returns `application/xml` data. The following contains all the nodes:

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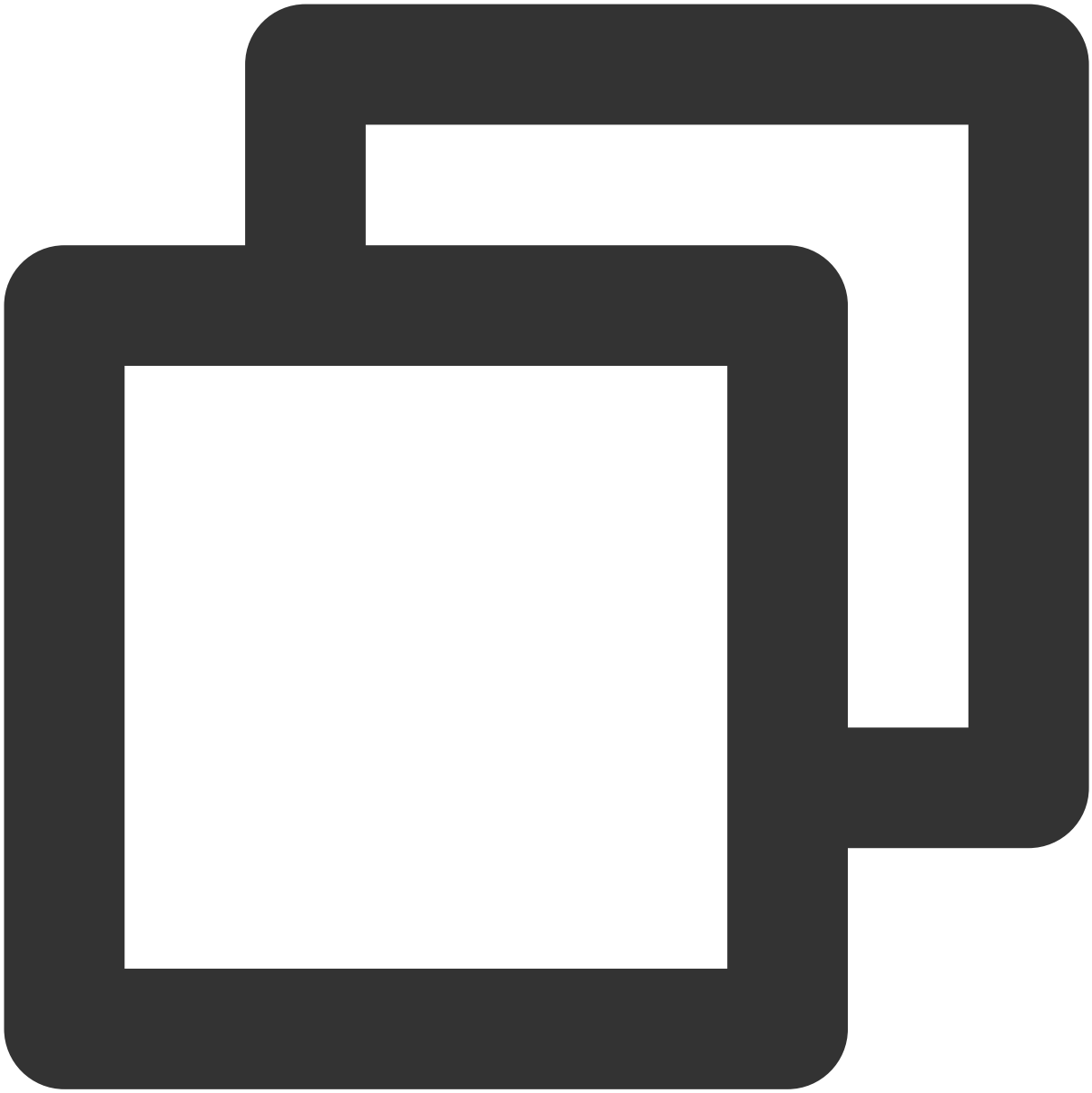

```
<RefererConfiguration>
    <Status>Enabled</Status>
    <RefererType>White-List</RefererType>
    <DomainList>
        <Domain>*.qq.com</Domain>
        <Domain>*.qcloud.com</Domain>
    </DomainList>
    <EmptyReferConfiguration>Allow</EmptyReferConfiguration>
</RefererConfiguration>
```

The nodes are described as follows:

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Node Name	Parent Node	Description	Type	Required
RefererConfiguration	None	Hotlink protection configuration	Container	Yes
Status	RefererConfiguration	Whether hotlink protection is enabled. Enumerated values: `Enabled`, `Disabled`	String	Yes
RefererType	RefererConfiguration	Hotlink protection type. Enumerated values: `Black-List`, `White-List`	String	Yes
DomainList	RefererConfiguration	A list of domain names in the blocklist/allowlist. Using a prefix to specify multiple domains is supported. Domain names and IPs with ports are supported. A wildcard (*) is supported for second-level or multi-level domains.	Container	Yes
Domain	DomainList	A single domain in the blocklist/allowlist, such as `www.qq.com/example`, `192.168.1.2:8080`, or `*.qq.com`	String	Yes
EmptyReferConfiguration	RefererConfiguration	Whether accessing with an empty referer is allowed. Enumerated values: `Allow`, `Deny` (default)	String	No

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

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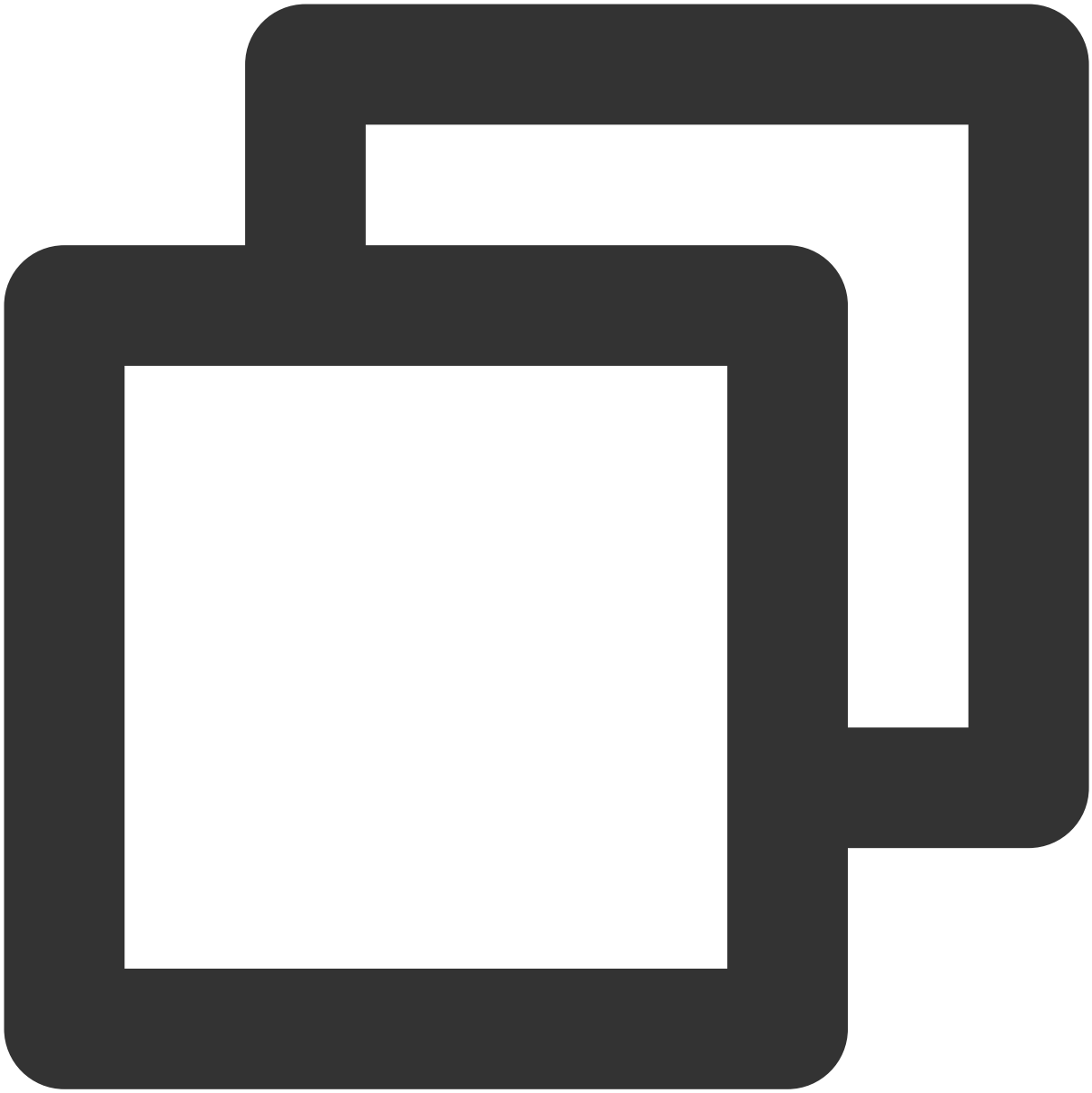

```
GET /?referer HTTP 1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 25 Feb 2017 04:10:22 GMT
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
```

Response

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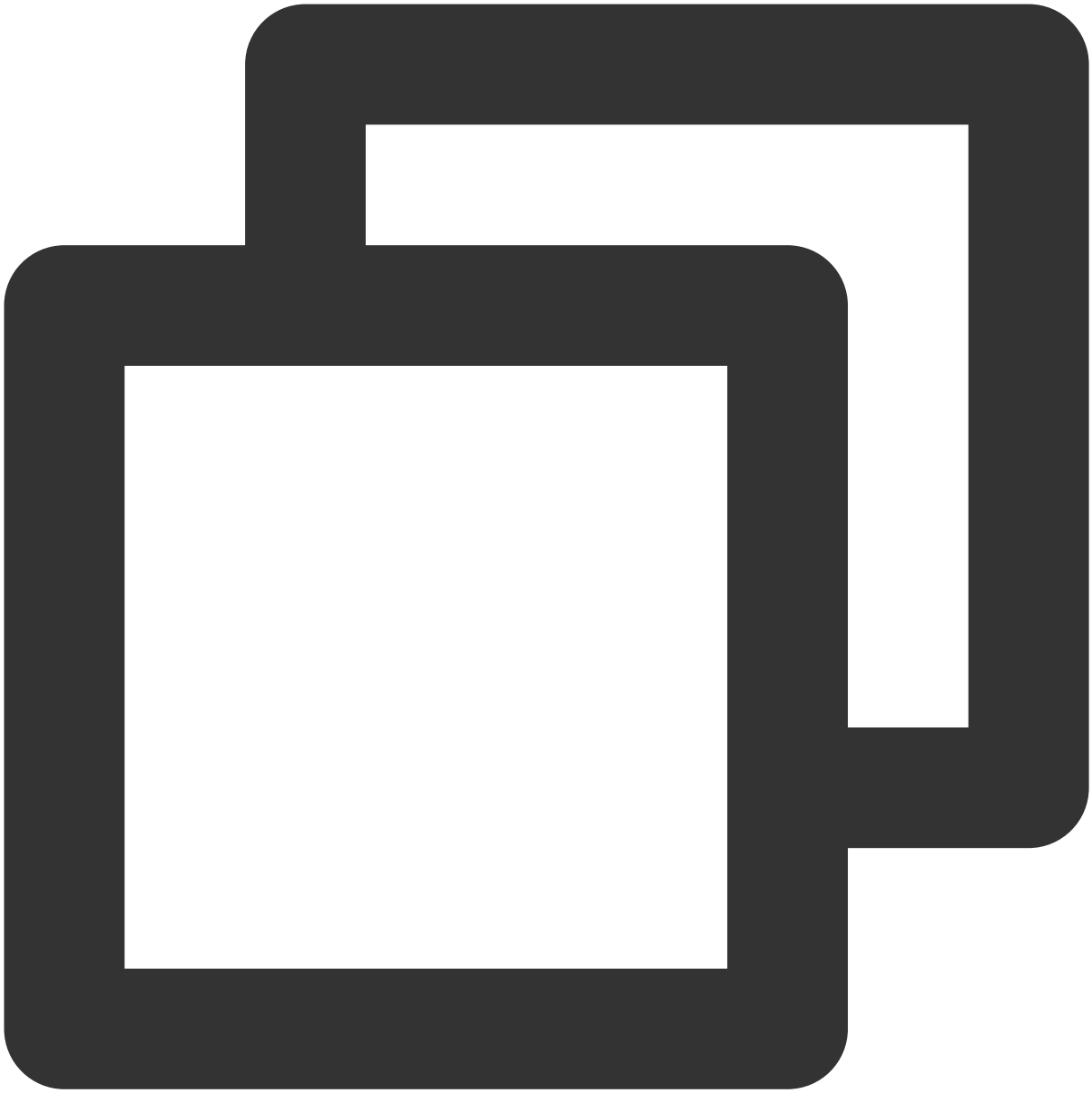

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 260
Connection: keep-alive
Date: Fri, 25 Feb 2017 04:10:22 GMT
Server: tencent-cos
x-cos-request-id: NTg3ZjFjMmJfOWIxZjRlXzZmNDhf****

<RefererConfiguration>
    <Status>Enabled</Status>
    <RefererType>White-List</RefererType>
```

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```
    <DomainList>
        <Domain>*.qq.com</Domain>
        <Domain>*.qcloud.com</Domain>
    </DomainList>
    <EmptyReferConfiguration>Allow</EmptyReferConfiguration>
</RefererConfiguration>
```

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Tag (tagging)
PUT Bucket tagging

Last updated：2024-03-28 18:08:33

Overview

This API is used to set tags (key-value pairs) for an existing bucket so that you can better manage bucket resources and costs.

Note:

Currently, you can set up to 50 different tags for a single bucket.

Request

Sample request

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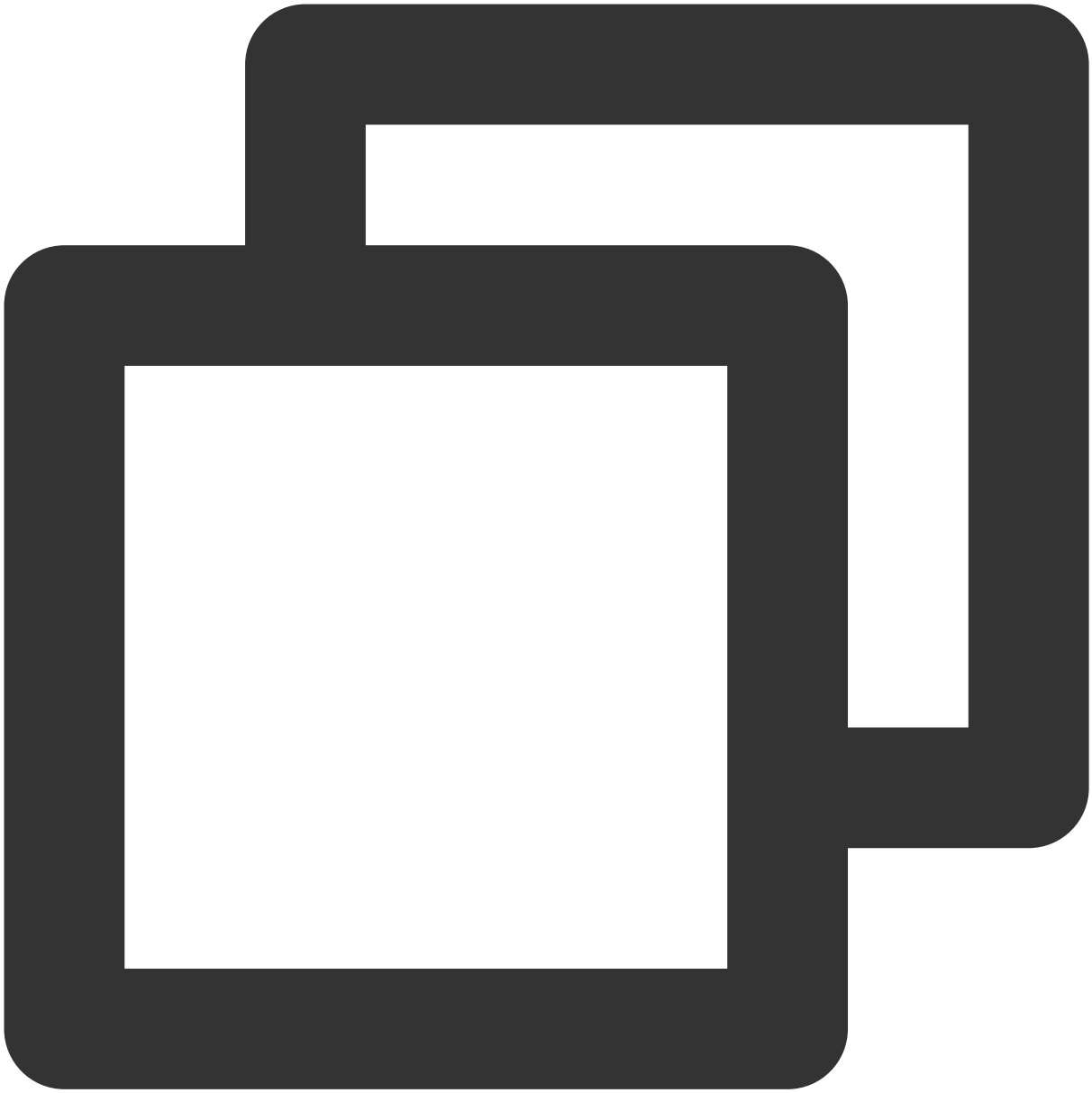

```
PUT /?tagging HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Content-MD5: MD5
Content-Length: Content Length
Content-Type: application/xml

[Request Body]
```

Note:

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In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

Set the tag set in the request body as follows:

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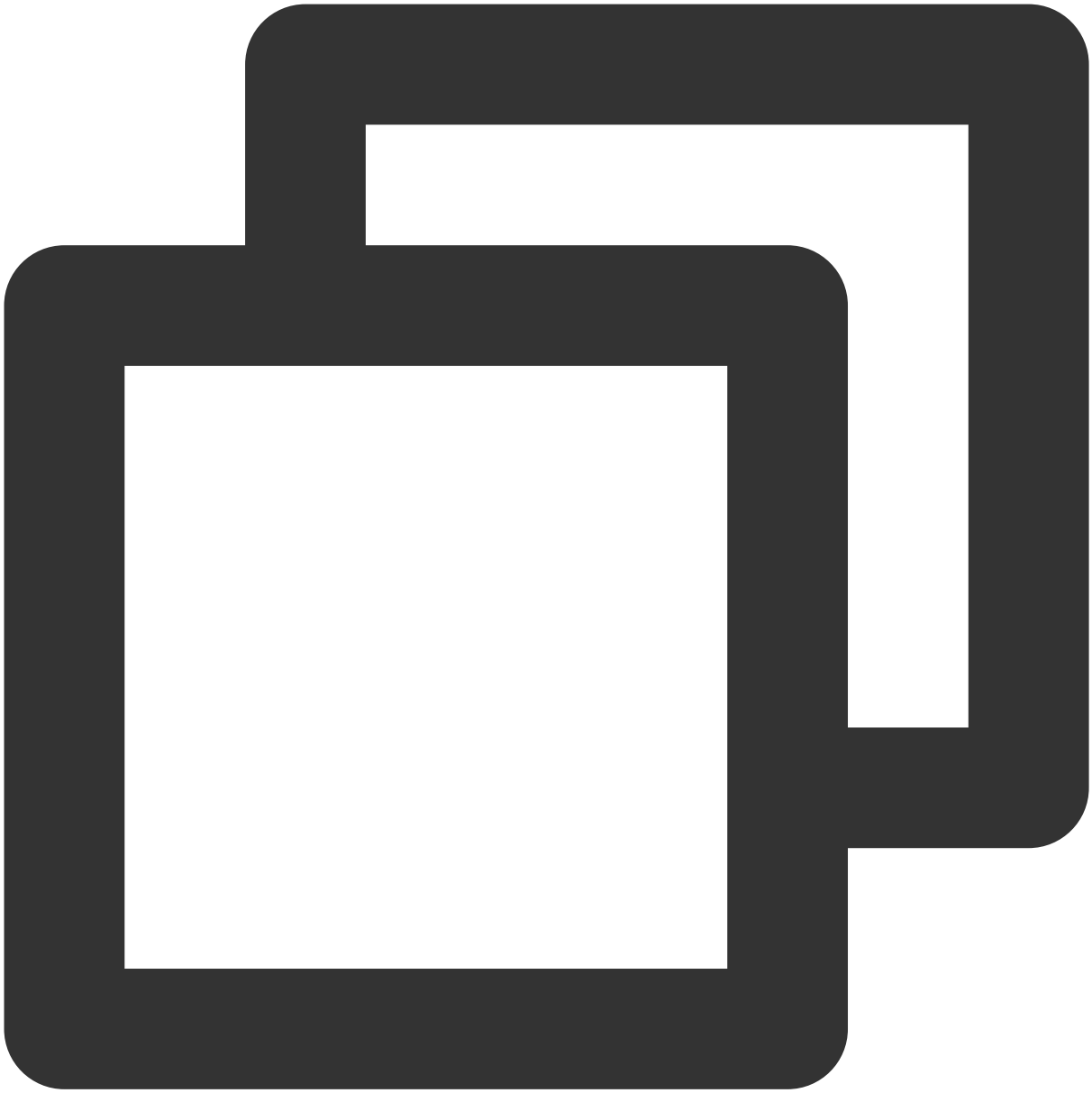

```
<?xml version="1.0" encoding="UTF-8" ?>
<Tagging>
    <TagSet>
        <Tag>
            <Key>age</Key>
            <Value>18</Value>
        </Tag>
        <Tag>
            <Key>name</Key>
            <Value>xiaoming</Value>
        </Tag>
```

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```
    </TagSet>
</Tagging>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tagging	None	Tagging configuration	Container	Yes
TagSet	Tagging	Tag set	Container	Yes
Tag	Tagging.TagSet	A single tag. Up to 50 tags are supported.	Containers	Yes
Key	Tagging.TagSet.Tag	Tag key, which can be up to 128 characters. A tag key can contain letters, digits, spaces, plus signs (+), minus signs (–), underscores (_), equals signs (=), dots (.), colons (:), and slashes (/).	String	Yes
Value	Tagging.TagSet.Tag	Tag value, which can be up to 256 characters. A tag value can contain letters, digits, spaces, plus signs (+), minus signs (–), underscores (_), equals signs (=), dots (.), colons (:), and slashes (/).	String	Yes

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Example

Request

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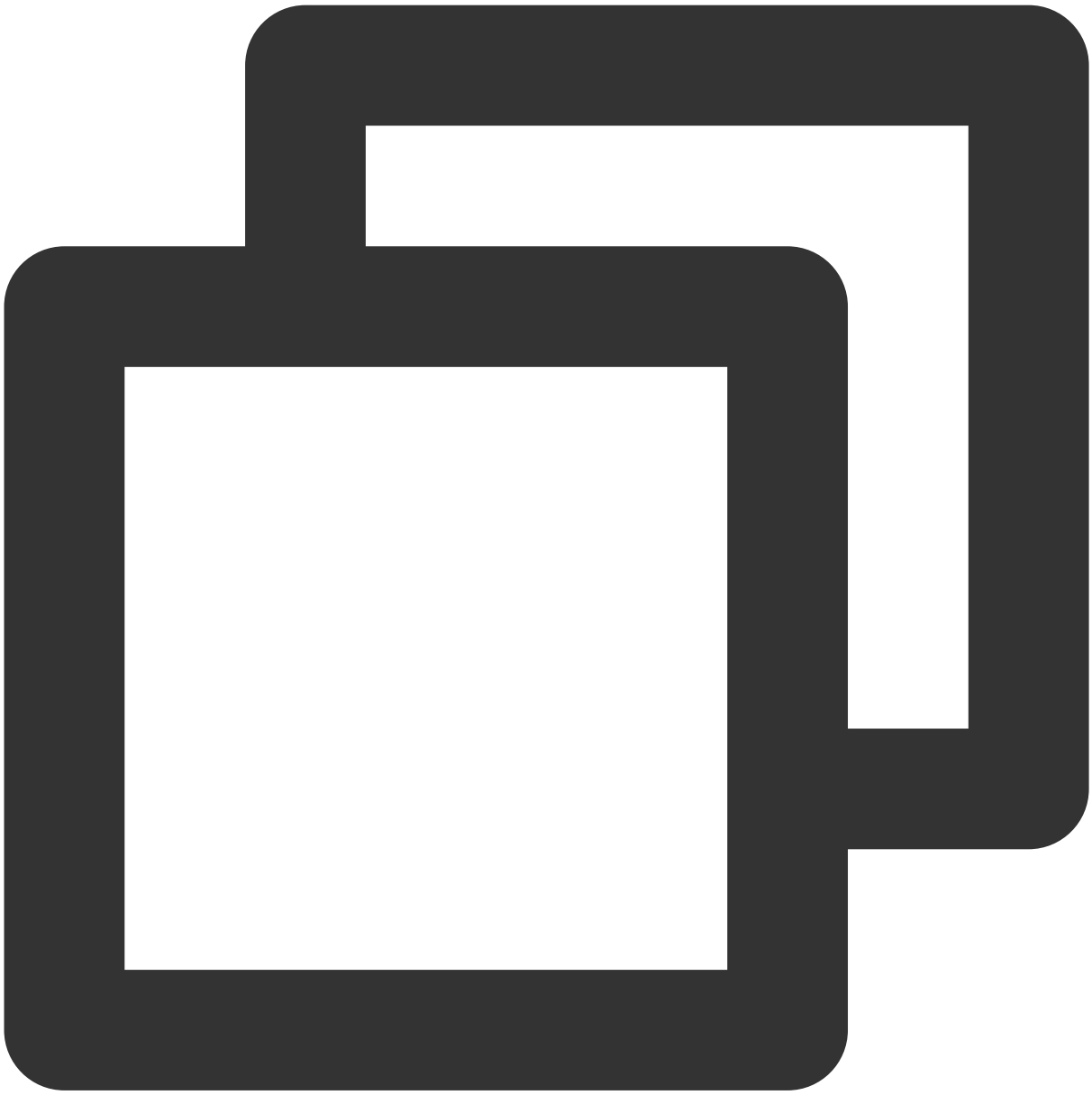
The following example writes the {age:18} and {name:xiaoming} tags to the `examplebucket-1250000000` bucket. After these tags are successfully configured, COS returns 204 (success).



```
PUT /?tagging HTTP/1.1
User-Agent: curl/7.29.0
Accept: */*
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Authorization: q-sign-algorithm=sha1&q-ak=AKIDrbAYjEBqqdEconpFi8NPFsOjrnX4****&q-si
Content-MD5: LIbd5t5HLPhuNWYkP6qHcQ==
Content-Length: 127
Content-Type: application/xml
```

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```
<Tagging>
    <TagSet>
        <Tag>
            <Key>age</Key>
            <Value>18</Value>
        </Tag>
        <Tag>
            <Key>name</Key>
            <Value>xiaoming</Value>
        </Tag>
    </TagSet>
</Tagging>
```

Response

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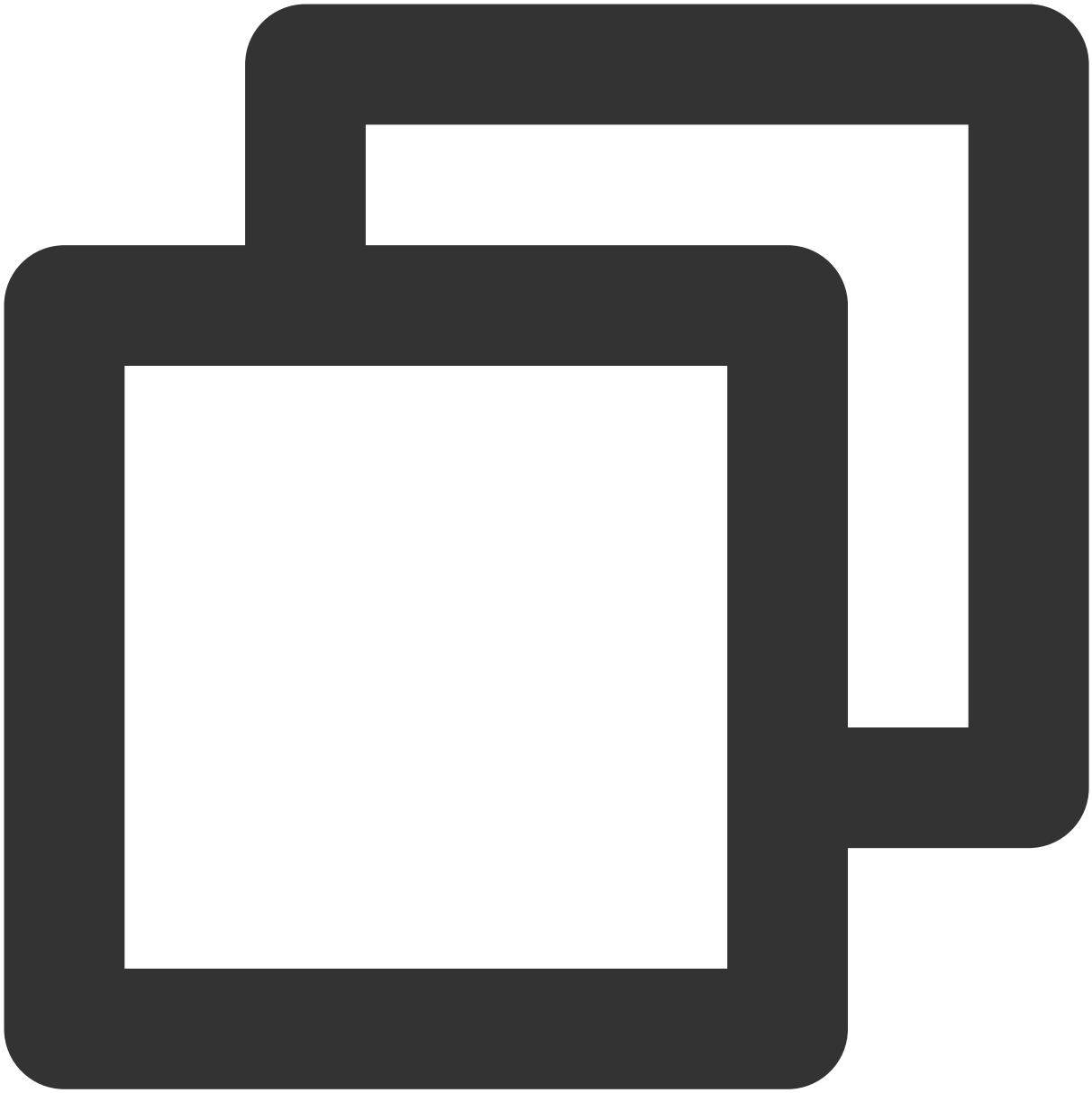

```
HTTP/1.1 204 No Content
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Fri, 19 Jan 2018 11:40:22 GMT
Server: tencent-cos
x-cos-request-id: NWE2MWQ5MjZfMTBhYzM1MGFfMTA5ODVfMTVj****
```

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GET Bucket tagging

Last updated：2024-03-28 18:08:32

Overview

This API is used to query the existing bucket tags of a bucket.

Note:

If a sub-account needs to call this API (`GET Bucket tagging`), ensure that the root account has authorized it to do so.

Request

Sample request

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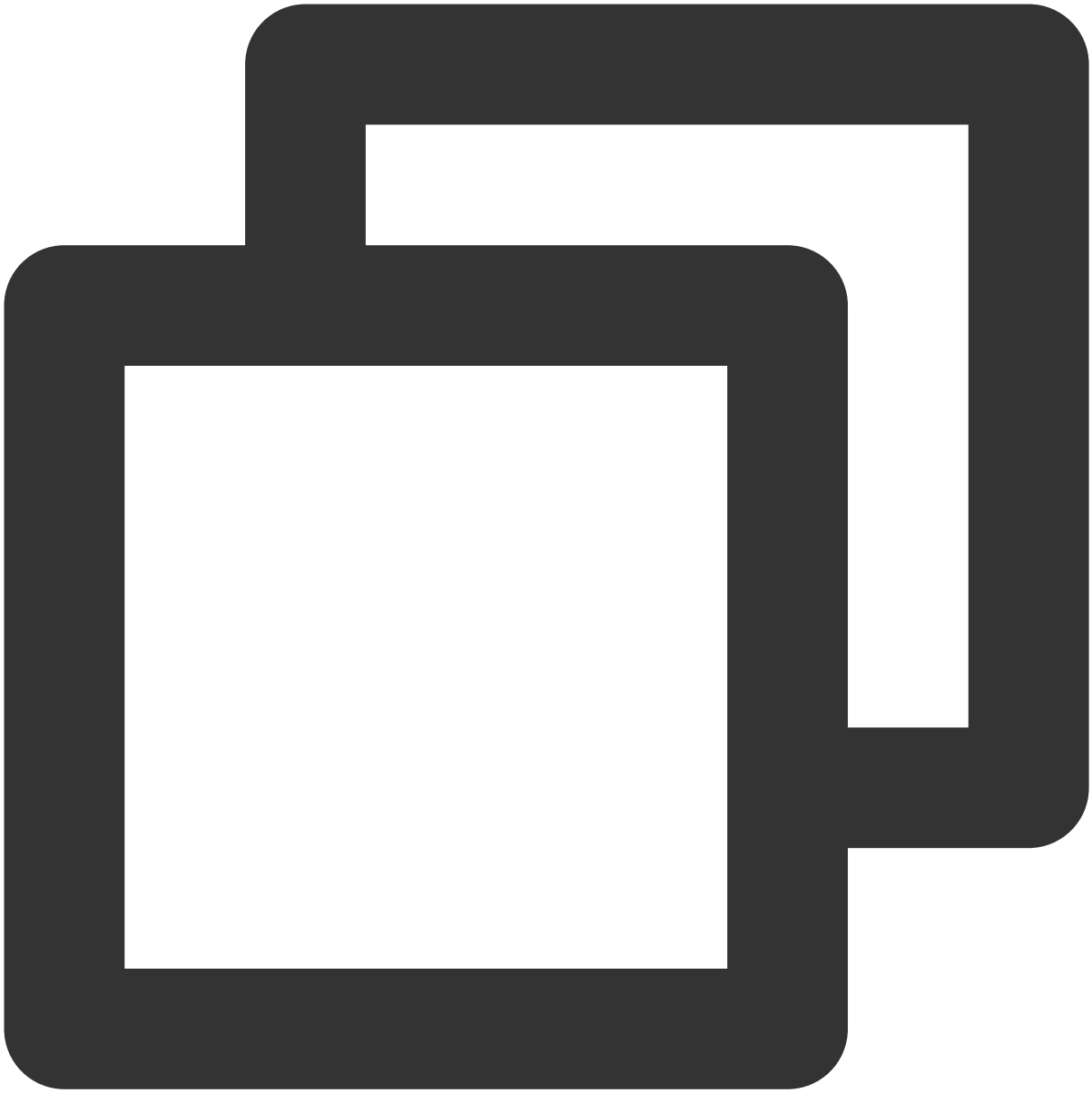

```
GET /?tagging HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

If the request is successful, **application/xml** data that contains information about the bucket's tags will be returned.

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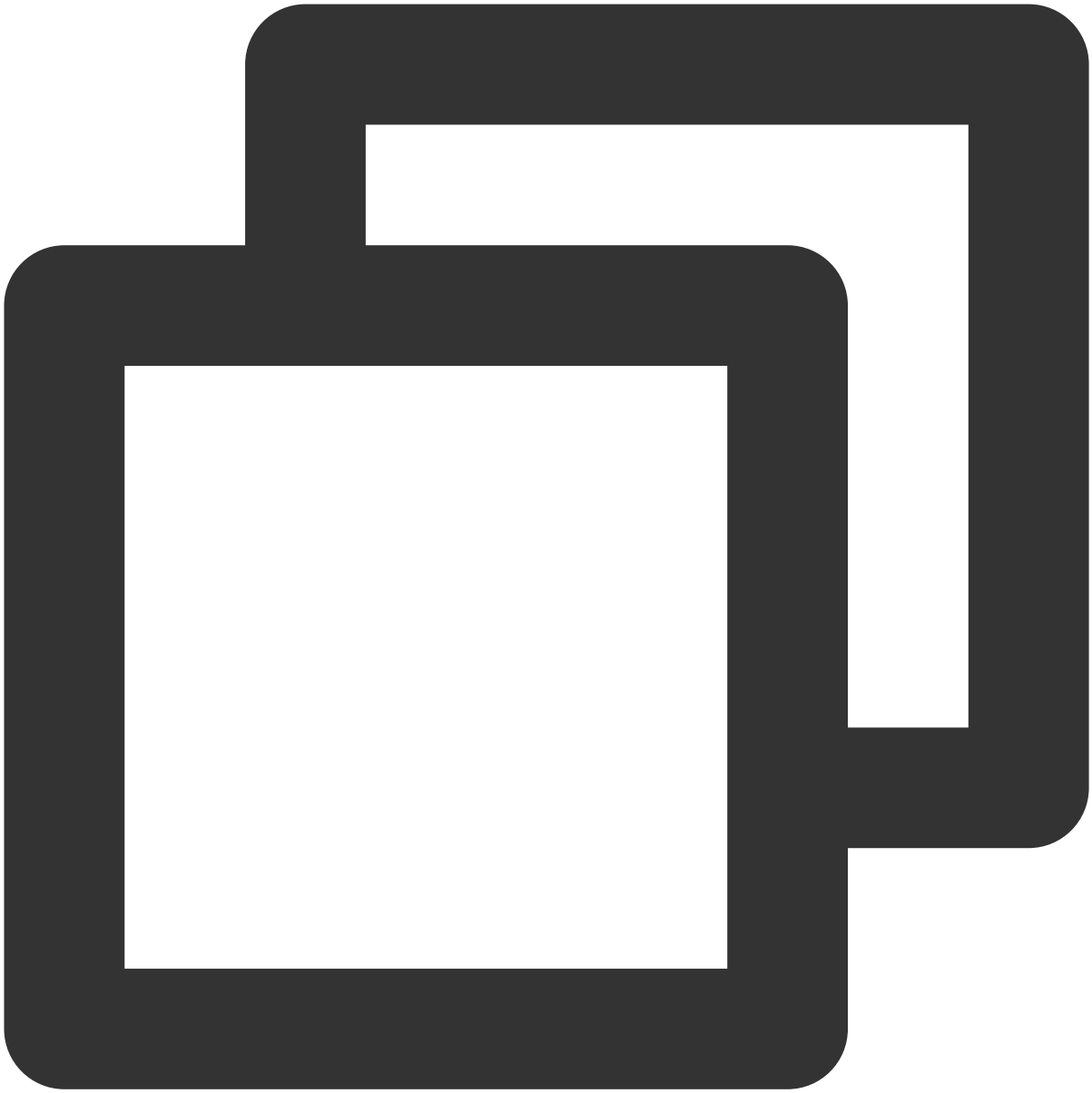

```
<Tagging>
    <TagSet>
        <Tag>
            <Key>string</Key>
            <Value>string</Value>
        </Tag>
        <Tag>
            <Key>string</Key>
            <Value>string</Value>
        </Tag>
    </TagSet>
```

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```
</Tagging>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Tagging	None	Tagging configuration	Container
TagSet	Tagging	Tag set	Container
Tag	Tagging.TagSet	A single tag. Up to 50 tags are supported.	Containers
Key	Tagging.TagSet.Tag	Tag key, which can be up to 128 characters. A tag key can contain letters, digits, spaces, plus signs (+), minus signs (–), underscores (_), equals signs (=), dots (.), colons (:), and slashes (/).	String
Value	Tagging.TagSet.Tag	Tag value, which can be up to 256 characters. A tag value can contain letters, digits, spaces, plus signs (+), minus signs (–), underscores (_), equals signs (=), dots (.), colons (:), and slashes (/).	String

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

The following example queries the tags of the `examplebucket-1250000000` bucket. COS parses the request and returns the {age:18} and {name:xiaoming} tags:

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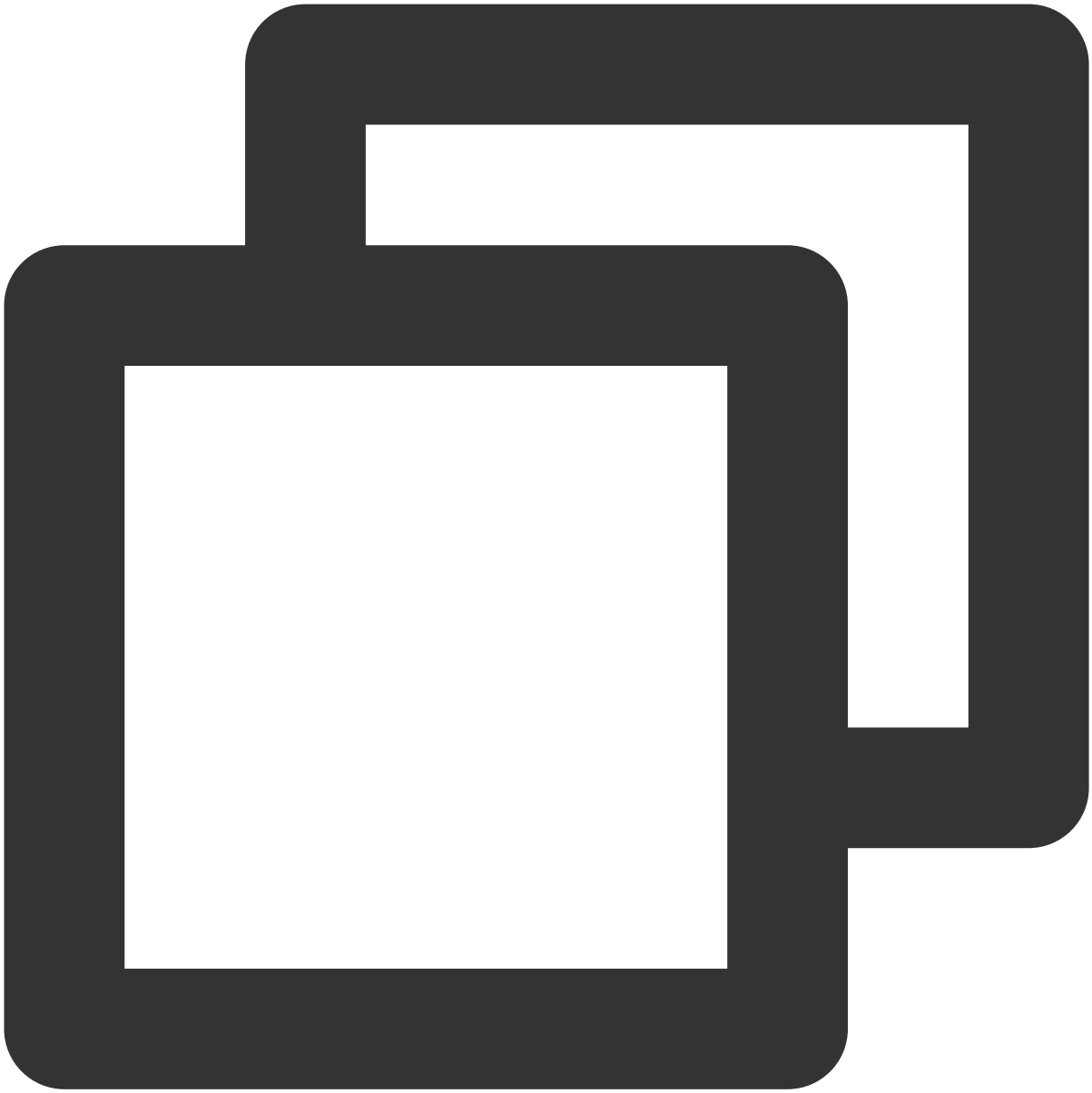

```
GET /?tagging HTTP/1.1
User-Agent: curl/7.29.0
Accept: */*
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Authorization: q-sign-algorithm=sha1&q-ak=AKIDrbAYjEBqqdEconpFi8NPFsOjrnX4****&q-si
Content-Length: 127
Content-Type: application/xml
```

Response

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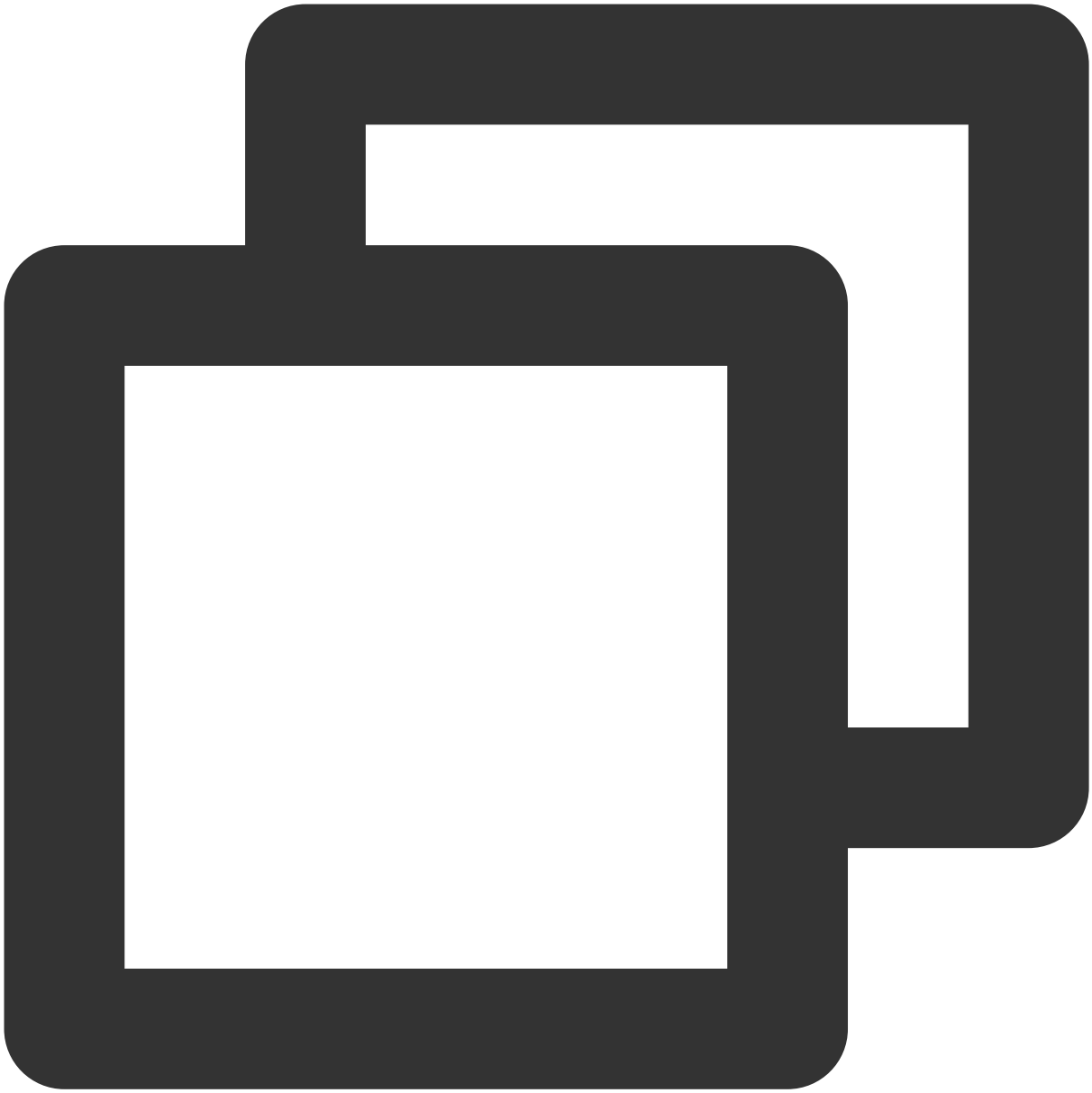

```
HTTP/1.1 200 OK
Content-Type: application/xml
Connection: close
Date: Fri, 19 Jan 2018 11:40:22 GMT
Server: tencent-cos
<Tagging>
    <TagSet>
        <Tag>
            <Key>age</Key>
            <Value>18</Value>
        </Tag>
```

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```
        <Tag>
            <Key>name</Key>
            <Value>xiaoming</Value>
        </Tag>
    </TagSet>
</Tagging>
```

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DELETE Bucket tagging

Last updated：2024-03-28 18:08:33

Overview

This API is used to delete the existing bucket tags from a bucket.

Note:

If a sub-account needs to call this API (`DELETE Bucket tagging`), ensure that the root account has authorized it to do so.

Request

Sample request

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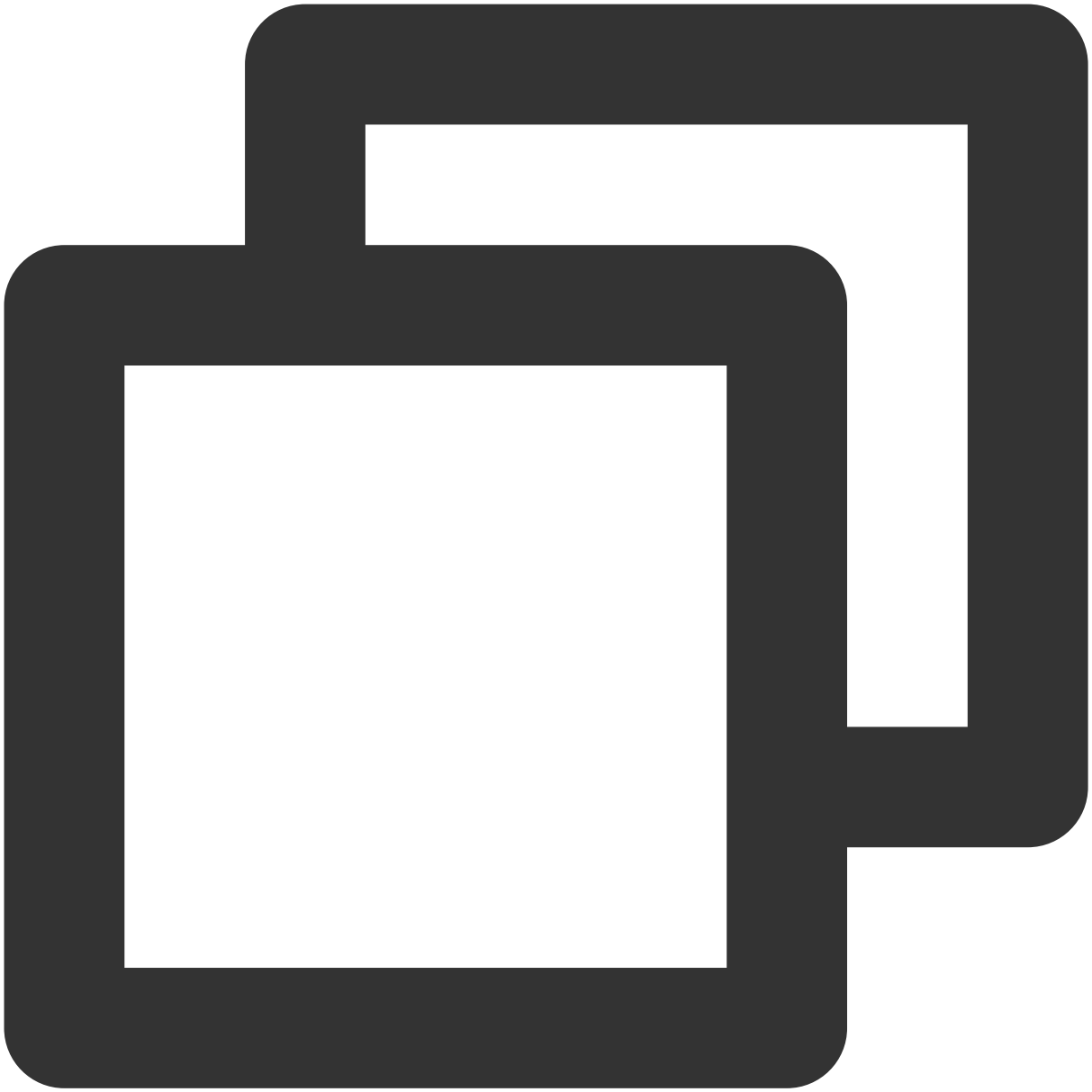

```
DELETE /?tagging HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date:date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic

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Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

The following example deletes the existing tags from the `examplebucket-1250000000` bucket:

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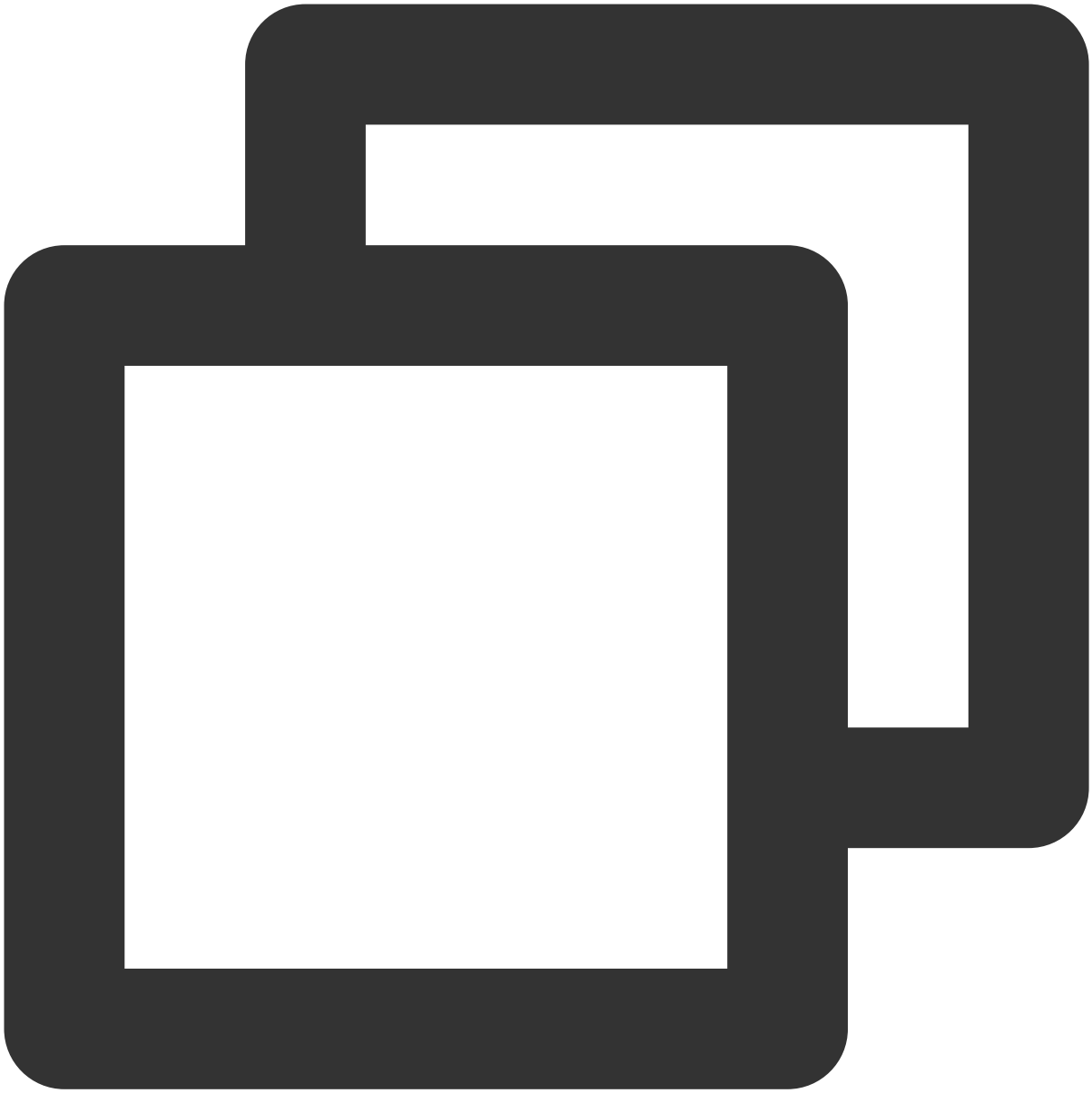

```
DELETE /?tagging HTTP/1.1
User-Agent: curl/7.29.0
Accept: */*
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Authorization: q-sign-algorithm=sha1&q-ak=AKIDrbAYjEBqqdEconpFi8NPFsOjrnX4****&q-si
Content-Md5: LIbd5t5HLPhuNWYkP6qHcQ==
Content-Length: 127
Content-Type: application/xml
```

Response

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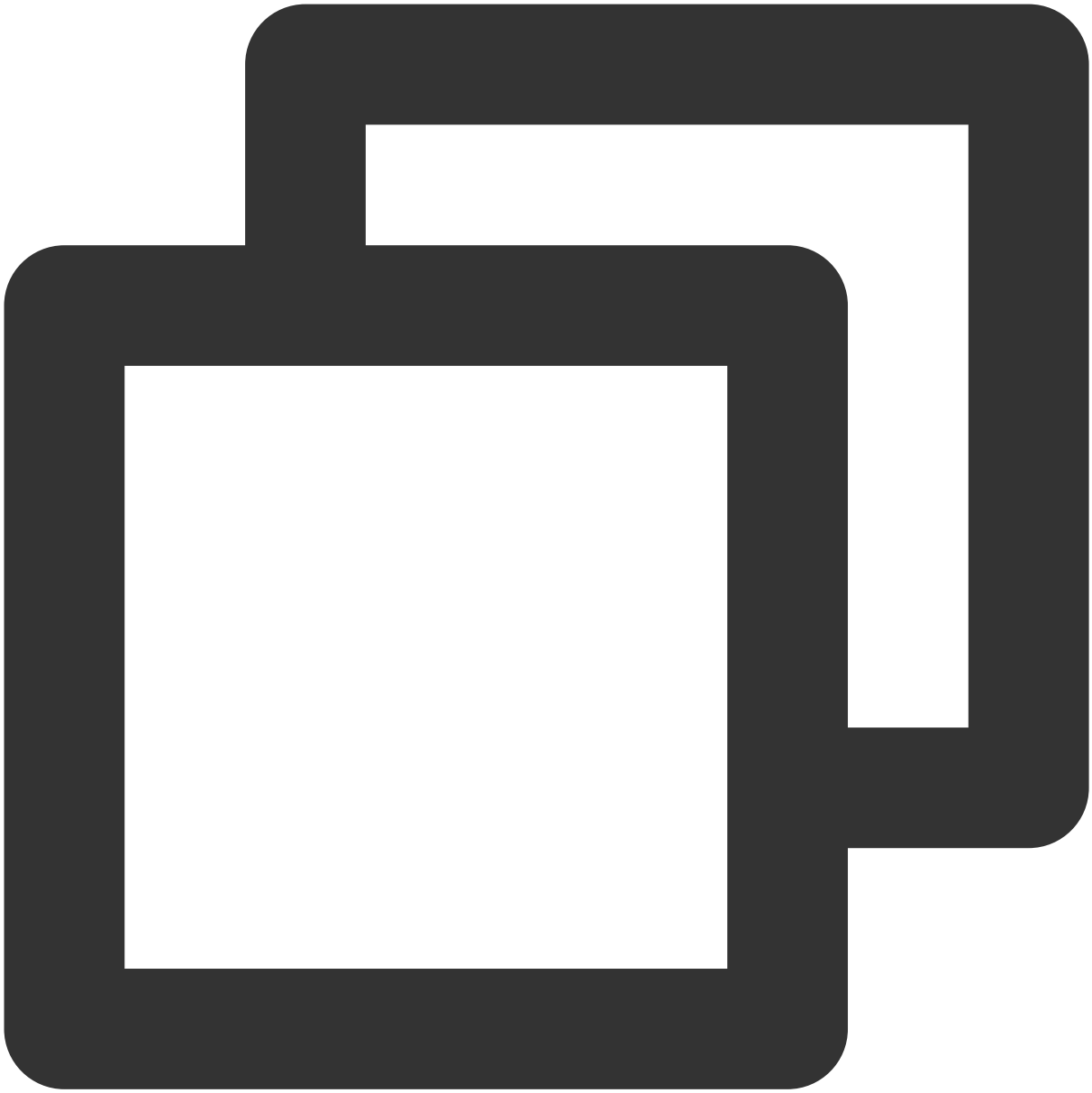

```
HTTP/1.1 204 No Content
Content-Type: application/xml
Connection: close
Date: Fri, 19 Jan 2018 11:40:22 GMT
```

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Static Website (website)
PUT Bucket website

Last updated：2024-03-28 18:08:33

Overview

This API is used to configure a static website for a bucket by importing configuration files in XML format. The file size is limited to 64 KB.

Requests

Sample request

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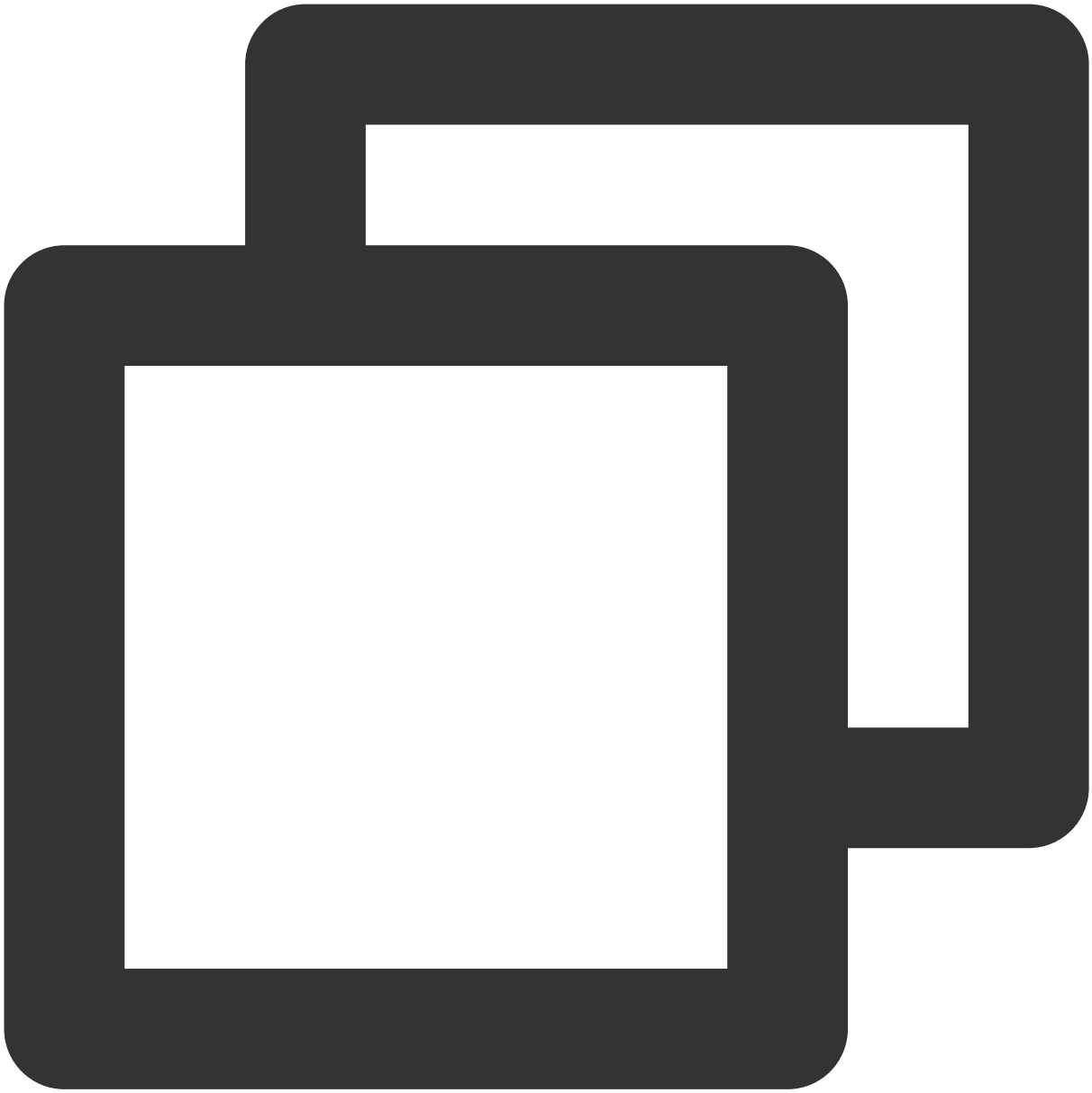

```
PUT /?website HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String

[Request Body]
```

Note:

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In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

This request body submits the **application/xml** data that includes all information about the static website configuration of the bucket.

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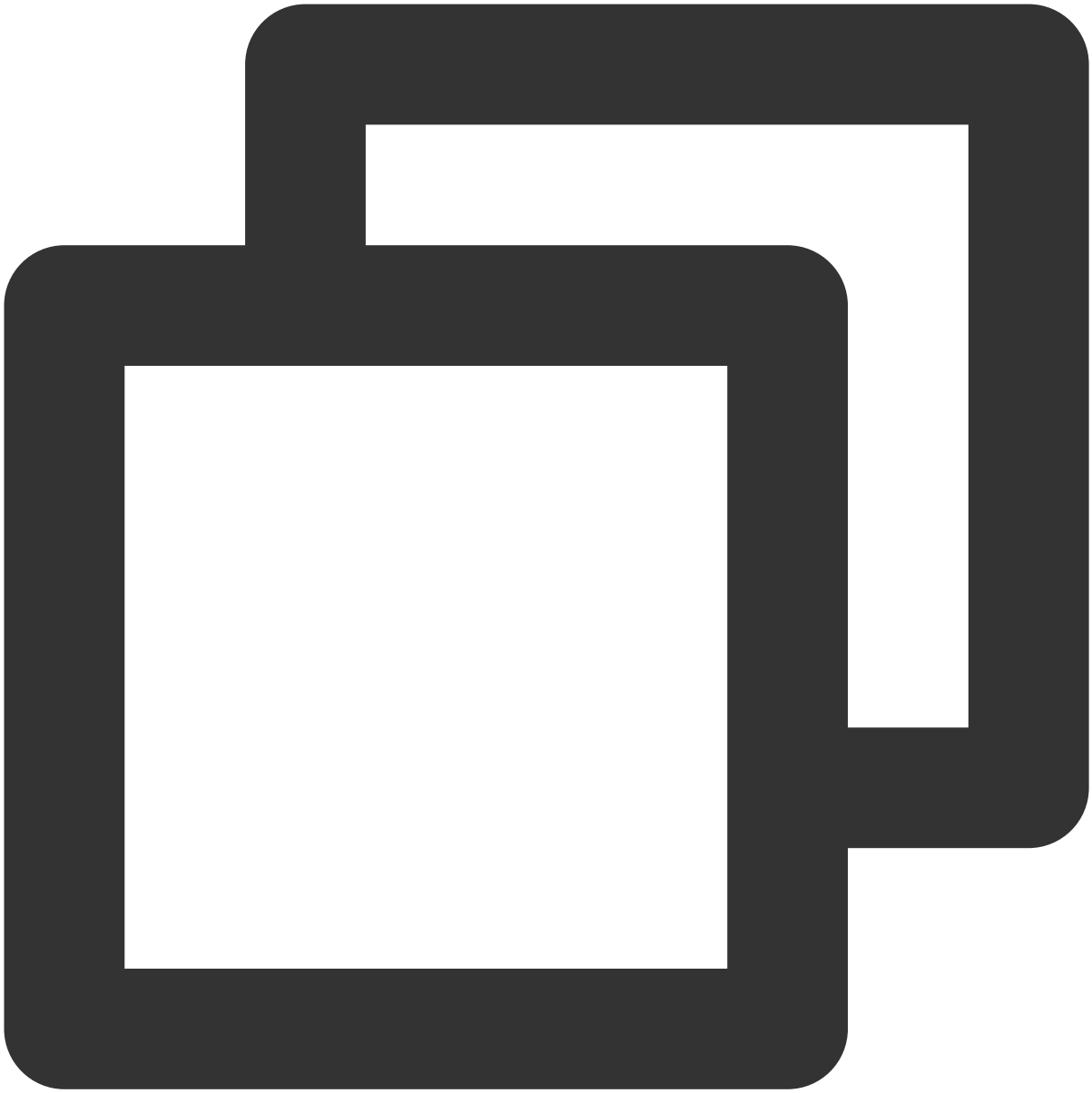

```
<WebsiteConfiguration>
    <IndexDocument>
        <Suffix>String</Suffix>
    </IndexDocument>
    <RedirectAllRequestsTo>
        <Protocol>String</Protocol>
    </RedirectAllRequestsTo>
    <AutoAddressing>
        <Status>Enabled|Disabled</Status>
    </AutoAddressing>
    <ErrorDocument>
```

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```
        <Key>String</Key>
        <OriginalHttpStatus>Enabled|Disabled</OriginalHttpStatus>
    </ErrorDocument>
    <RoutingRules>
        <RoutingRule>
            <Condition>
                <HttpErrorCodeReturnedEquals>Integer</HttpErrorCodeReturnedEquals>
            </Condition>
            <Redirect>
                <Protocol>String</Protocol>
                <ReplaceKeyWith>String</ReplaceKeyWith>
            </Redirect>
        </RoutingRule>
        <RoutingRule>
            <Condition>
                <KeyPrefixEquals>String</KeyPrefixEquals>
            </Condition>
            <Redirect>
                <Protocol>String</Protocol>
                <ReplaceKeyPrefixWith>String</ReplaceKeyPrefixWith>
            </Redirect>
        </RoutingRule>
    </RoutingRules>
</WebsiteConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
WebsiteConfiguration	None	Contains all the request information about PUT Bucket website	Container	No

Content of `WebsiteConfiguration`:

Node Name (Keyword)	Parent Node	Description	Type	Required
IndexDocument	WebsiteConfiguration	Index document configuration	Container	Yes
RedirectAllRequestsTo	WebsiteConfiguration	Configures redirection for all requests	Container	No
AutoAddressing	WebsiteConfiguration	Whether to ignore all file extensions	Container	No
ErrorDocument	WebsiteConfiguration	Error document configuration	Container	No
RoutingRules	WebsiteConfiguration	Routing rule configuration. A	Container	No

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		`RoutingRules` container can contain up to 100 `RoutingRule` elements.		

Content of `IndexDocument`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Suffix	WebsiteConfiguration.IndexDocument	Specifies the object key suffix for index documents. For example, if it is specified as `index.html`, the request automatically returns `index.html` when you access the root directory of the bucket, or `article/index.html` when you access the directory `article/`.	String	Yes

Content of `RedirectAllRequestsTo`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Protocol	WebsiteConfiguration.RedirectAllRequestsTo	Specifies the target protocol to redirect all requests. Only HTTPS is supported.	String	Yes

Content of `AutoAddressing`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Status	WebsiteConfiguration.AutoAddressing	Whether to ignore the HTML file extension. Valid values: `Enabled`, `Disabled` (default)	String	No

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Content of `ErrorDocument`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Key	WebsiteConfiguration.ErrorDocument	Specifies the object key to return for the error document if an error occurs and does not match the error code in the routing rule	String	Yes
OriginalHttpStatus	WebsiteConfiguration.ErrorDocument	Configures whether to return the corresponding HTTPS status code if the error documents are hit. Valid values: `Enabled` (default), `Disabled`	String	No

Content of `RoutingRules`:

Node Name (Keyword)	Parent Node	Description	Type	Required
RoutingRule	WebsiteConfiguration.RoutingRules	A single routing rule	Container	Yes

Content of `RoutingRules.RoutingRule`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Condition	WebsiteConfiguration.RoutingRules.RoutingRule	Condition for the routing rule	Container	Yes
Redirect	WebsiteConfiguration.RoutingRules.RoutingRule	Configuration of the redirection target	Container	Yes

Content of `RoutingRules.RoutingRule.Condition`:

Node Name (Keyword)	Parent Node	Description	T

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HttpErrorCodeReturnedEquals	WebsiteConfiguration.RoutingRules.RoutingRule.Condition	Specifies the error code as the match condition for the routing rule. Valid values: only 4xx return codes, such as 403 or 404.	I
KeyPrefixEquals	WebsiteConfiguration.RoutingRules.RoutingRule.Condition	Specifies the object key prefix as the match condition for the routing rule	S

Content of `RoutingRules.RoutingRule.Redirect` :

Node Name (Keyword)	Parent Node	Description
Protocol	WebsiteConfiguration.RoutingRules.RoutingRule.Redirect	Specifies the target protocol for the routing rule. Only HTTPS is supported.
ReplaceKeyWith	WebsiteConfiguration.RoutingRules.RoutingRule.Redirect	Specifies the target object key to replace the original object key in the request.
ReplaceKeyPrefixWith	WebsiteConfiguration.RoutingRules.RoutingRule.Redirect	Specifies the object key prefix to replace the original prefix in the request. You can set this parameter only if

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		the condition is `KeyPrefixEquals`.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Request

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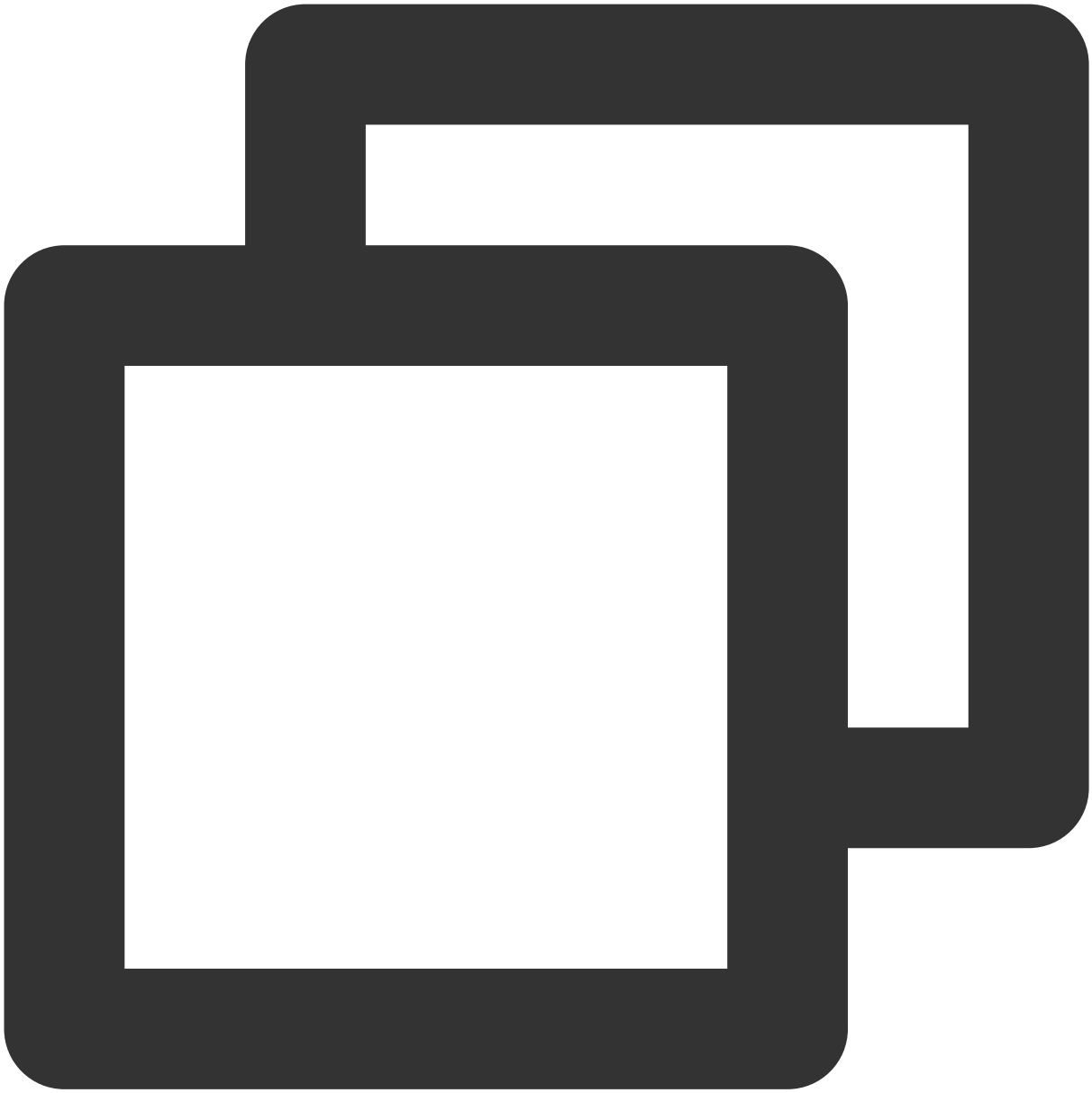

```
PUT /?website HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 20 May 2020 09:33:38 GMT
Content-Type: application/xml
Content-Length: 1209
Content-MD5: VHzj4Uwb++HLyCJp7jUzWg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<WebsiteConfiguration>
    <IndexDocument>
```

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```
        <Suffix>index.html</Suffix>
    </IndexDocument>
    <RedirectAllRequestsTo>
        <Protocol>https</Protocol>
    </RedirectAllRequestsTo>
    <ErrorDocument>
        <Key>pages/error.html</Key>
    </ErrorDocument>
    <RoutingRules>
        <RoutingRule>
            <Condition>
                <HttpErrorCodeReturnedEquals>403</HttpErrorCodeReturnedEquals>
            </Condition>
            <Redirect>
                <Protocol>https</Protocol>
                <ReplaceKeyWith>pages/403.html</ReplaceKeyWith>
            </Redirect>
        </RoutingRule>
        <RoutingRule>
            <Condition>
                <HttpErrorCodeReturnedEquals>404</HttpErrorCodeReturnedEquals>
            </Condition>
            <Redirect>
                <ReplaceKeyWith>pages/404.html</ReplaceKeyWith>
            </Redirect>
        </RoutingRule>
        <RoutingRule>
            <Condition>
                <KeyPrefixEquals>assets/</KeyPrefixEquals>
            </Condition>
            <Redirect>
                <ReplaceKeyWith>index.html</ReplaceKeyWith>
            </Redirect>
        </RoutingRule>
        <RoutingRule>
            <Condition>
                <KeyPrefixEquals>article/</KeyPrefixEquals>
            </Condition>
            <Redirect>
                <Protocol>https</Protocol>
                <ReplaceKeyPrefixWith>archived/</ReplaceKeyPrefixWith>
            </Redirect>
        </RoutingRule>
    </RoutingRules>
</WebsiteConfiguration>
```

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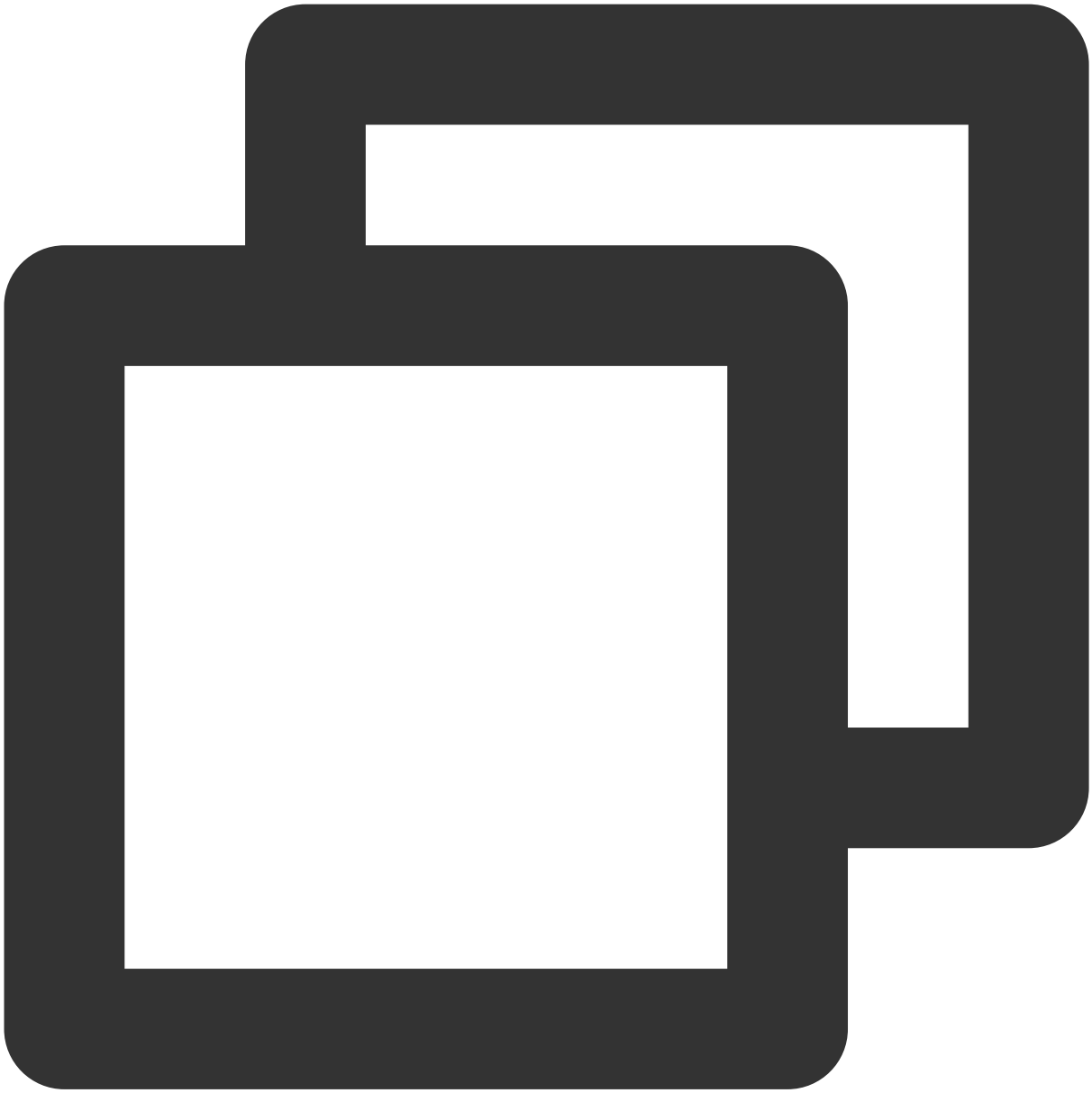
Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Wed, 20 May 2020 09:33:38 GMT
Server: tencent-cos
x-cos-request-id: NWVjNGY5NzJfOThjMjJhMDlfMjg5Ml8yYzNi****
```

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GET Bucket website

Last updated：2024-03-28 18:08:32

Overview

This API is used to query the configuration of static websites associated with a bucket.

Request

Sample request

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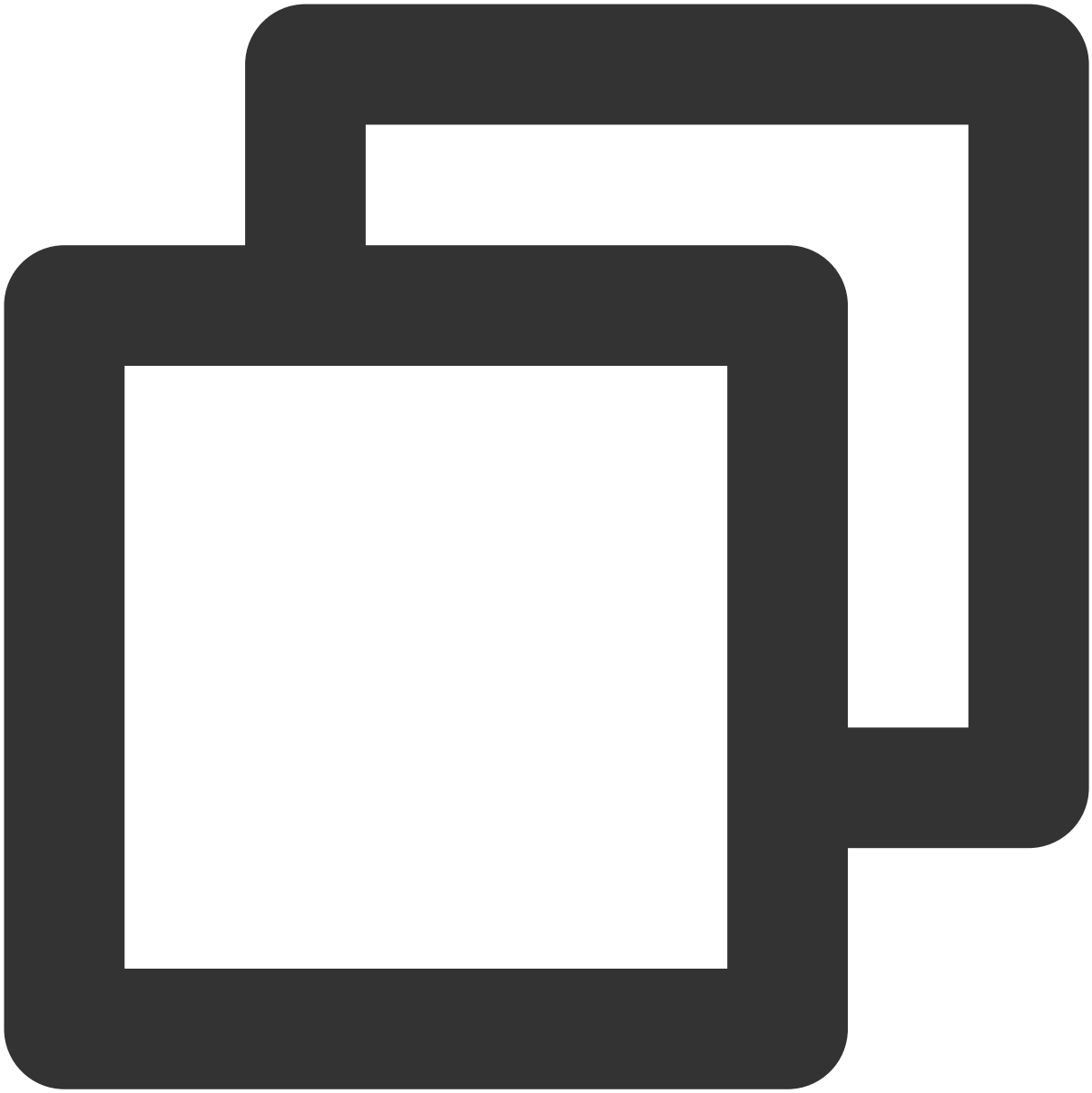

```
GET /?website HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

A successful query will return **application/xml** data that includes all information about the static website configuration of the bucket.

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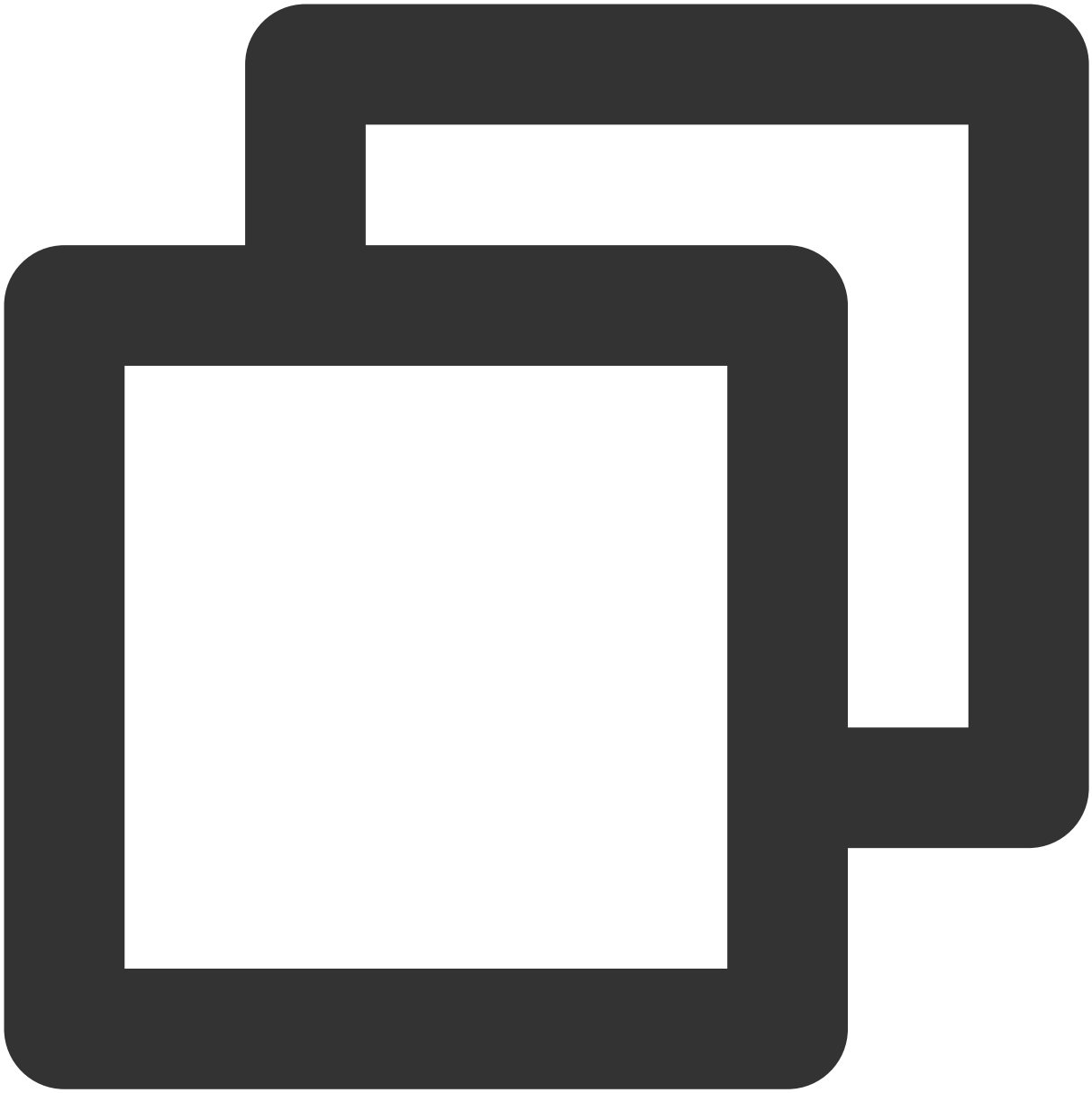

```
<WebsiteConfiguration>
    <IndexDocument>
        <Suffix>string</Suffix>
    </IndexDocument>
    <RedirectAllRequestsTo>
        <Protocol>string</Protocol>
    </RedirectAllRequestsTo>
    <ErrorDocument>
        <Key>string</Key>
    </ErrorDocument>
    <RoutingRules>
```

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```
        <RoutingRule>
            <Condition>
                <HttpErrorCodeReturnedEquals>integer</HttpErrorCodeReturnedEquals>
            </Condition>
            <Redirect>
                <Protocol>string</Protocol>
                <ReplaceKeyWith>string</ReplaceKeyWith>
            </Redirect>
        </RoutingRule>
        <RoutingRule>
            <Condition>
                <KeyPrefixEquals>string</KeyPrefixEquals>
            </Condition>
            <Redirect>
                <Protocol>string</Protocol>
                <ReplaceKeyPrefixWith>string</ReplaceKeyPrefixWith>
            </Redirect>
        </RoutingRule>
    </RoutingRules>
</WebsiteConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
WebsiteConfiguration	None	Stores the result of `GET Bucket website`.	Container

Content of `WebsiteConfiguration`:

Node Name (Keyword)	Parent Node	Description	Type
IndexDocument	WebsiteConfiguration	Index document configuration	Container
RedirectAllRequestsTo	WebsiteConfiguration	Redirection configuration for all requests	Container
ErrorDocument	WebsiteConfiguration	Error document configuration	Container
RoutingRules	WebsiteConfiguration	Routing rule configuration	Container

Content of `IndexDocument`:

Node Name (Keyword)	Parent Node	Description	Type
Suffix	WebsiteConfiguration.IndexDocument	The object key suffix of index documents. For example, if this parameter is set to	string

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		`index.html` , `index.html` will be automatically returned when you access the root directory of the bucket, and `article/index.html` will be returned when you access the `article/` directory.	

Content of `RedirectAllRequestsTo` :

Node Name (Keyword)	Parent Node	Description	Type
Protocol	WebsiteConfiguration.RedirectAllRequestsTo	The target protocol to redirect all requests	string

Content of `ErrorDocument` :

Node Name (Keyword)	Parent Node	Description	Type
Key	WebsiteConfiguration.ErrorDocument	Object key of the general error document	string

Content of `RoutingRules` :

Node Name (Keyword)	Parent Node	Description	Type
RoutingRule	WebsiteConfiguration.RoutingRules	A single routing rule	Container

Content of `RoutingRules.RoutingRule` :

Node Name (Keyword)	Parent Node	Description	Type
Condition	WebsiteConfiguration.RoutingRules.RoutingRule	Condition for the routing rule	Container
Redirect	WebsiteConfiguration.RoutingRules.RoutingRule	Configuration of the redirection target	Container

Content of `RoutingRules.RoutingRule.Condition` :

Node Name (Keyword)	Parent Node	Description	T
HttpErrorCodeReturnedEquals	WebsiteConfiguration.RoutingRules.RoutingRule.Condition	The error code to	i

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		match the routing rule	
KeyPrefixEquals	WebsiteConfiguration.RoutingRules.RoutingRule.Condition	The object key prefix to match the routing rule	s

Content of `RoutingRules.RoutingRule.Redirect`:

Node Name (Keyword)	Parent Node	Description	Type
Protocol	WebsiteConfiguration.RoutingRules.RoutingRule.Redirect	Target protocol for the routing rule	string
ReplaceKeyWith	WebsiteConfiguration.RoutingRules.RoutingRule.Redirect	Target object key to replace the original object key in the request	string
ReplaceKeyPrefixWith	WebsiteConfiguration.RoutingRules.RoutingRule.Redirect	Target object key prefix to replace the original object key prefix that is matched in the request	string

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

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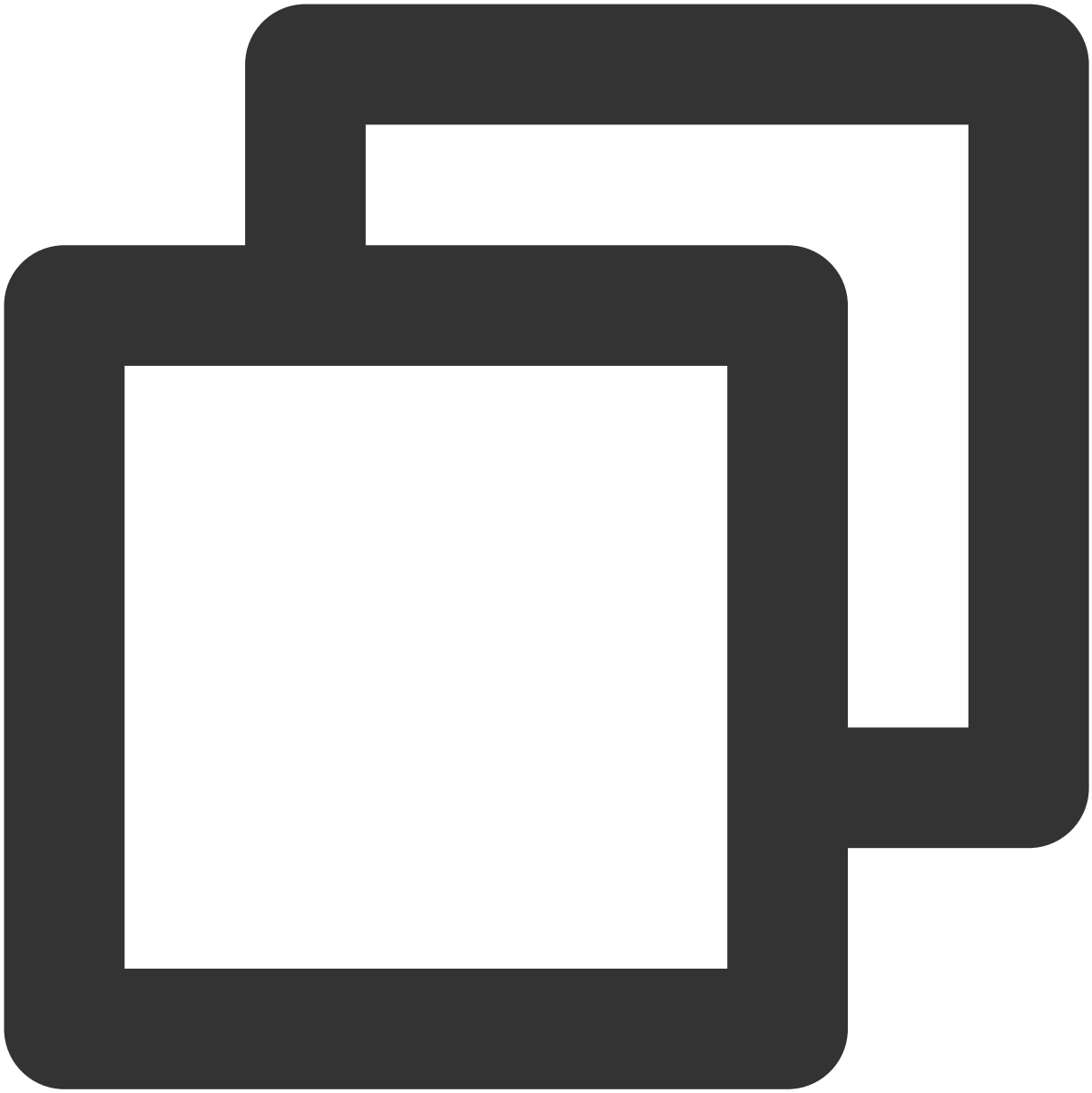

```
GET /?website HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 20 May 2020 09:33:49 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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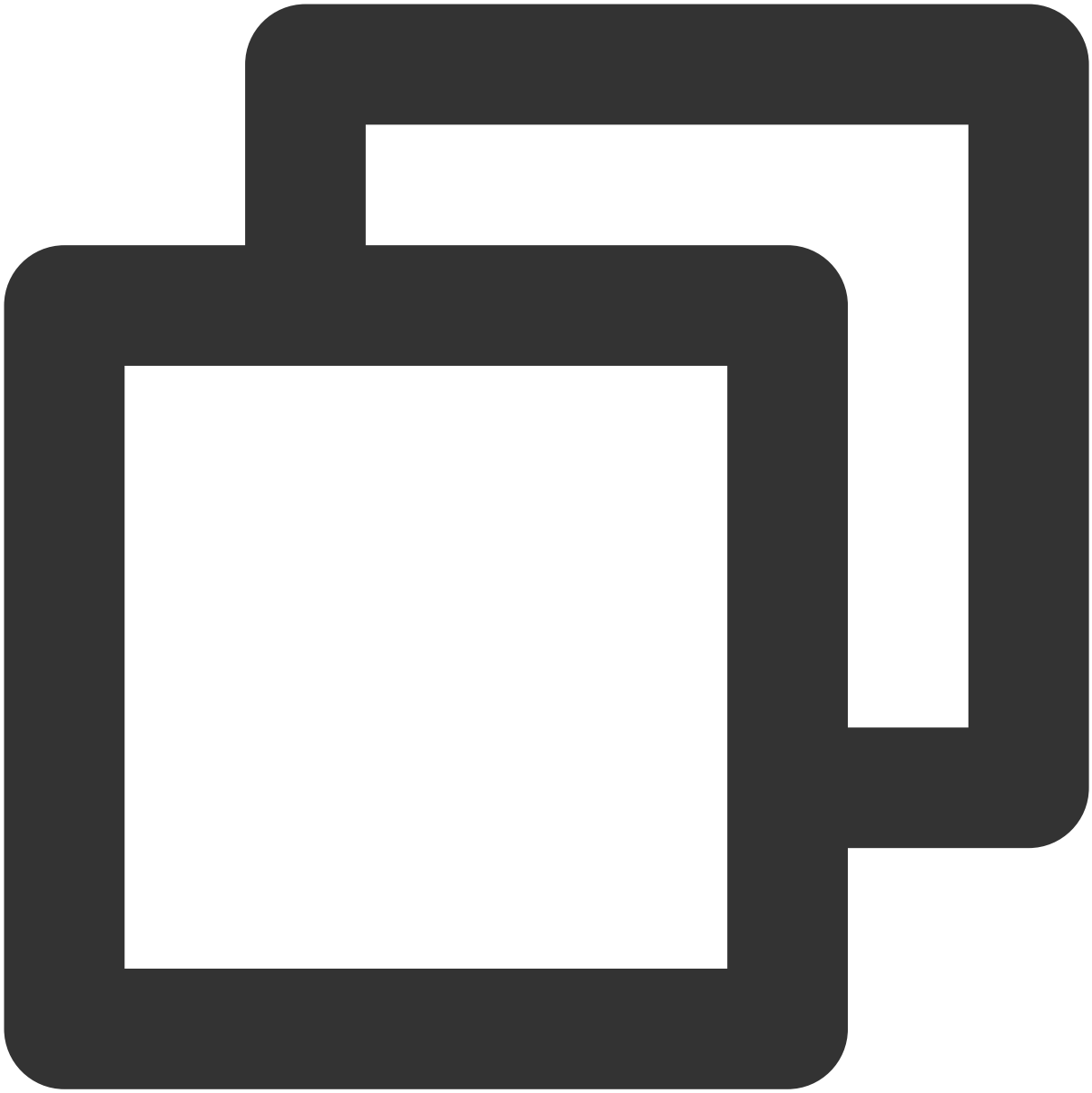

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1163
Connection: close
Date: Wed, 20 May 2020 09:33:49 GMT
Server: tencent-cos
x-cos-request-id: NWVjNGY5N2RfYTdjMjJhMDlfNjZkY18yYWUx****

<WebsiteConfiguration>
    <IndexDocument>
        <Suffix>index.html</Suffix>
```

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```
    </IndexDocument>
    <RedirectAllRequestsTo>
        <Protocol>https</Protocol>
    </RedirectAllRequestsTo>
    <ErrorDocument>
        <Key>pages/error.html</Key>
    </ErrorDocument>
    <RoutingRules>
        <RoutingRule>
            <Condition>
                <HttpErrorCodeReturnedEquals>403</HttpErrorCodeReturnedEquals>
            </Condition>
            <Redirect>
                <Protocol>https</Protocol>
                <ReplaceKeyWith>pages/403.html</ReplaceKeyWith>
            </Redirect>
        </RoutingRule>
        <RoutingRule>
            <Condition>
                <HttpErrorCodeReturnedEquals>404</HttpErrorCodeReturnedEquals>
            </Condition>
            <Redirect>
                <ReplaceKeyWith>pages/404.html</ReplaceKeyWith>
            </Redirect>
        </RoutingRule>
        <RoutingRule>
            <Condition>
                <KeyPrefixEquals>assets/</KeyPrefixEquals>
            </Condition>
            <Redirect>
                <ReplaceKeyWith>index.html</ReplaceKeyWith>
            </Redirect>
        </RoutingRule>
        <RoutingRule>
            <Condition>
                <KeyPrefixEquals>article/</KeyPrefixEquals>
            </Condition>
            <Redirect>
                <Protocol>https</Protocol>
                <ReplaceKeyPrefixWith>archived/</ReplaceKeyPrefixWith>
            </Redirect>
        </RoutingRule>
    </RoutingRules>
</WebsiteConfiguration>
```

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DELETE Bucket website

Last updated：2024-03-28 18:08:32

Overview

This API is used to delete the static website configuration from a bucket.

Request

Sample request

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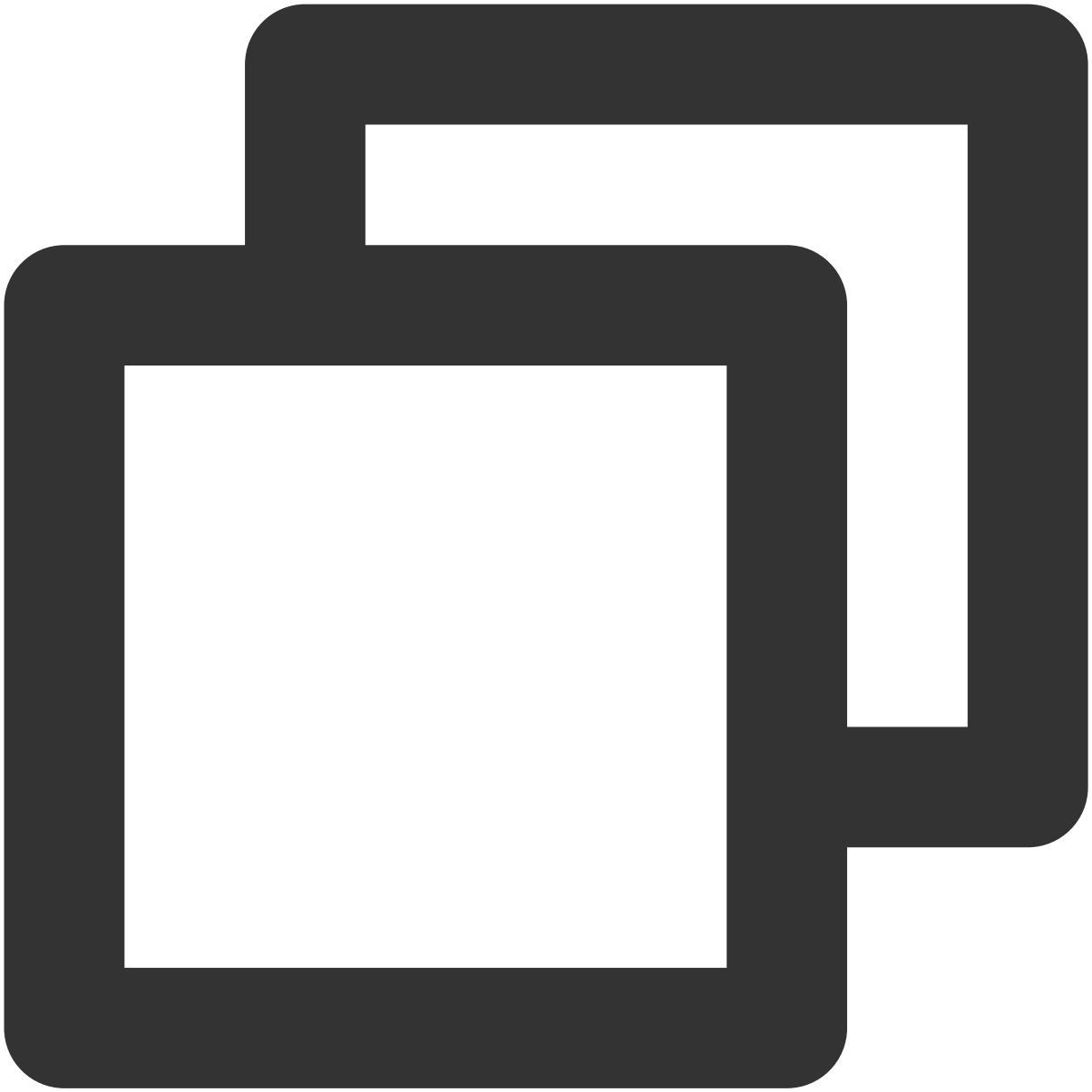

```
DELETE /?website HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic

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Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request parameters

This API has no request parameter.

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

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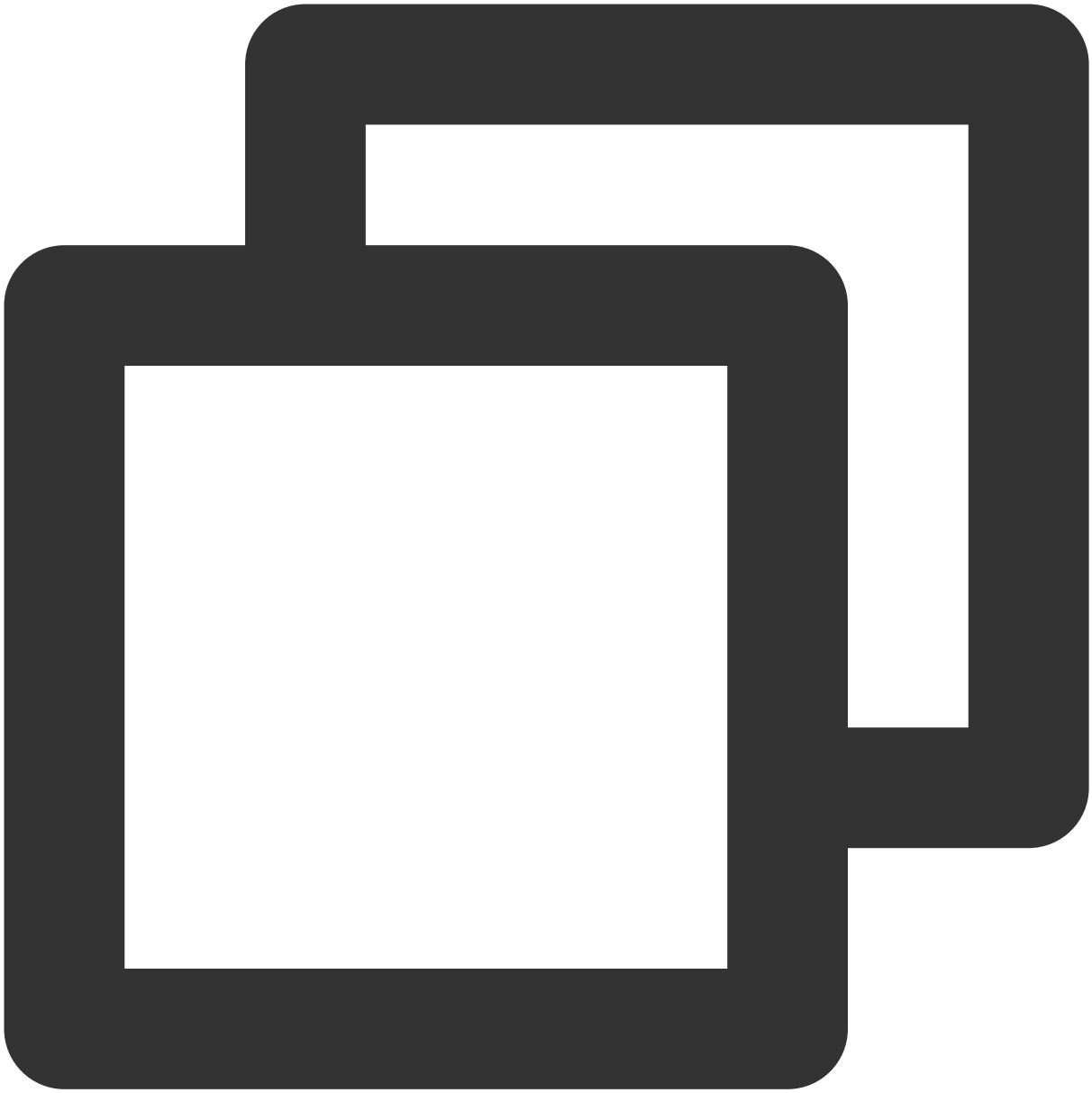

```
DELETE /?website HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 19 May 2020 07:57:10 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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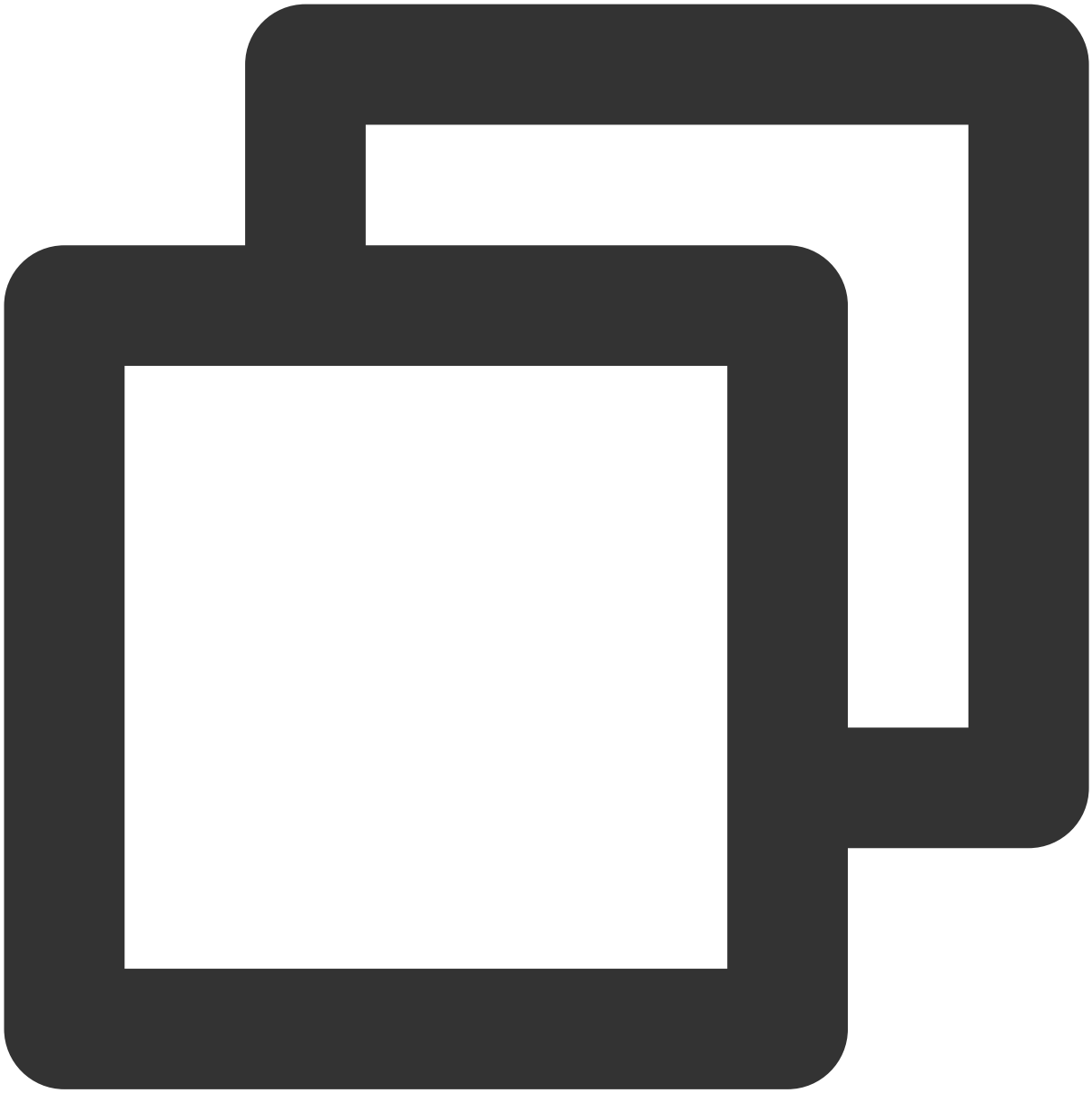

```
HTTP/1.1 204 No Content
Connection: close
Date: Tue, 19 May 2020 07:57:10 GMT
Server: tencent-cos
x-cos-request-id: NWVjMzkxNTZfY2ZhZjJhMDlfNWI2OV8yYWFh****
Content-Length: 0
```

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Intelligent Tiering
PUT Bucket IntelligentTiering

Last updated：2024-03-28 18:08:33

Feature Description

This API is used to enable INTELLIGENT TIERING for a bucket.

Note:

Once enabled, INTELLIGENT TIERING cannot be disabled or modified.

Only the root account and authorized sub-accounts can call the `PUT Bucket IntelligentTiering` API.

You can use `x-cos-storage-tier` returned by the HEAD Object API to determine the storage tier of the object.

Request

Sample request

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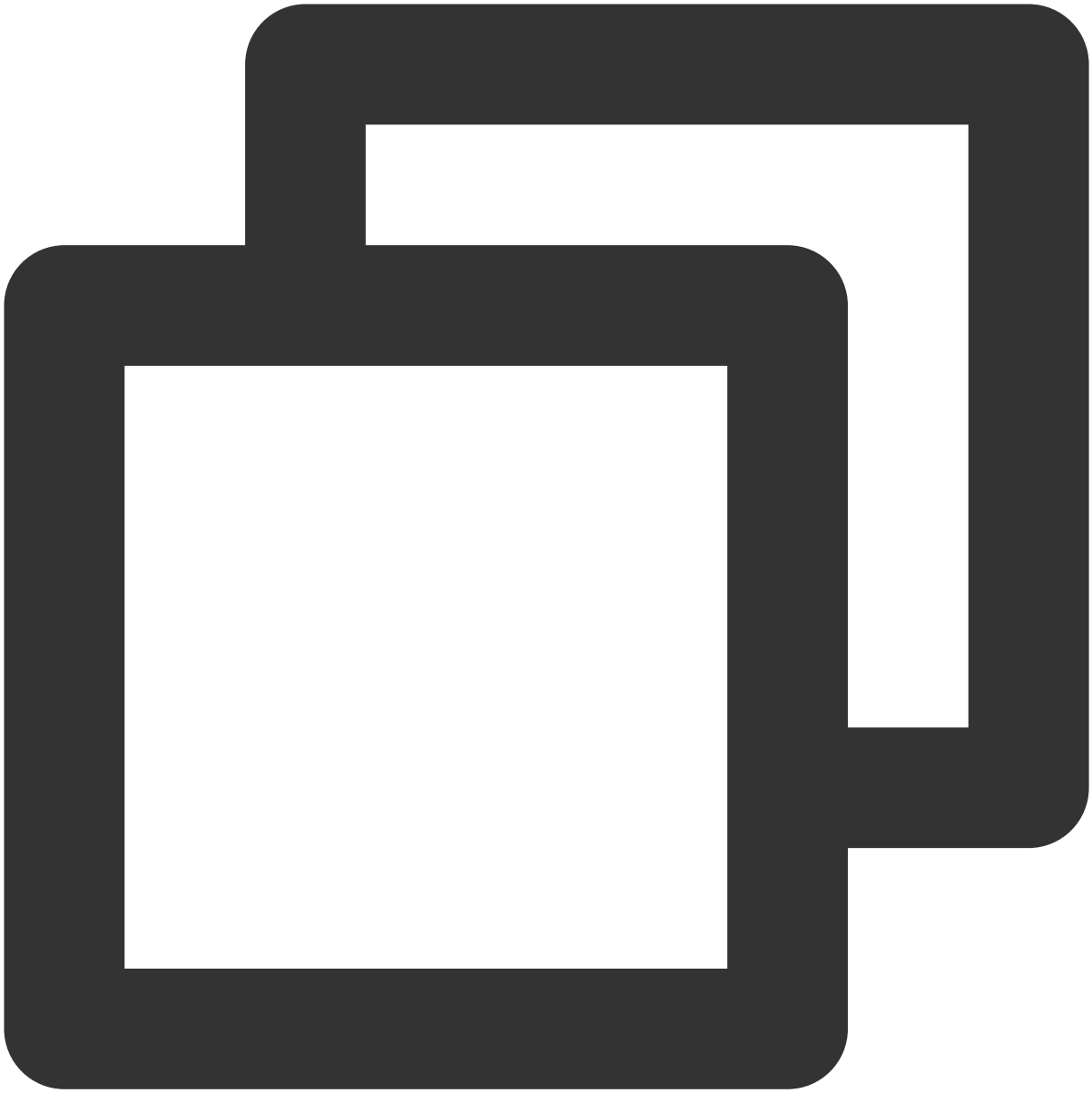

```
PUT /?intelligenttiering HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Connection: keep-alive
Authorization: authorization string
Content-Type: text/plain
Content-Length: Int
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

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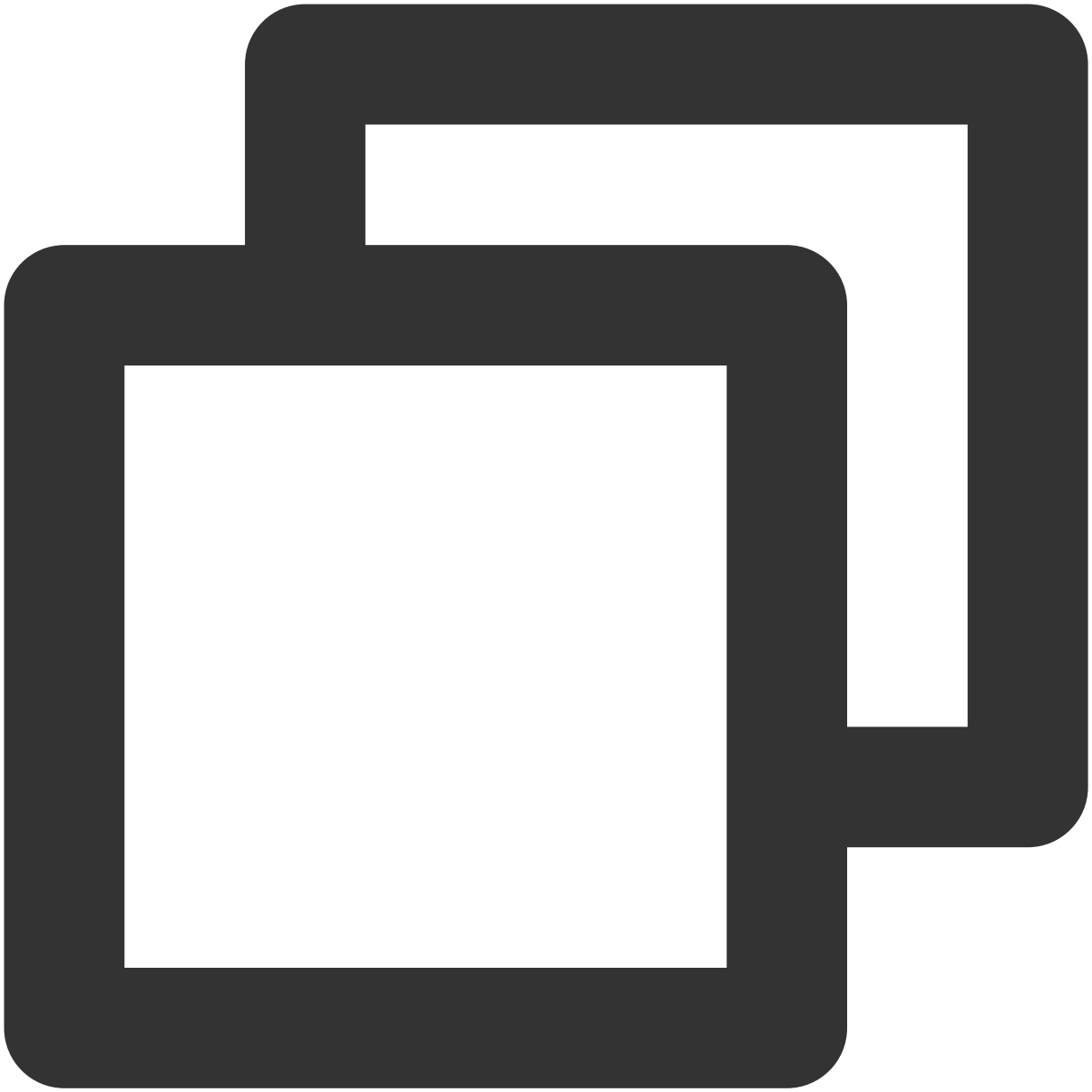

```
<IntelligentTieringConfiguration xmlns="cos xmlns/">
  <Status>Enabled</Status>
  <Transition>
    <Days>30|60|90</Days>
    <RequestFrequent>1</RequestFrequent>
  </Transition>
</IntelligentTieringConfiguration>
```

The nodes are described as follows:

Name	Parent Node	Description	Type

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IntelligentTieringConfiguration	No	Detailed configuration of INTELLIGENT TIERING	Container	
Status	IntelligentTieringConfiguration	Whether to enable INTELLIGENT TIERING. Enumerated value: `Enabled`	Enum	
Transition	IntelligentTieringConfiguration	Transition configuration for INTELLIGENT TIERING	Container	
Days	IntelligentTieringConfiguration.Transition	The number of consecutive days used to determine whether to move objects from STANDARD to STANDARD_IA. Valid values: `30`, `60`, `90`. Default value: `30`.	Int	
RequestFrequent	IntelligentTieringConfiguration.Transition	The limit of access times used to determine whether to move objects from STANDARD to STANDARD_IA. The default value is `1`. It can achieve object transition when used with `Days`. For example, if this	Int	

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		parameter is set to `1` and `Days` is set to `30`, objects accessed less than once in 30 consecutive days will be moved from STANDARD to STANDARD_IA.		

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Request

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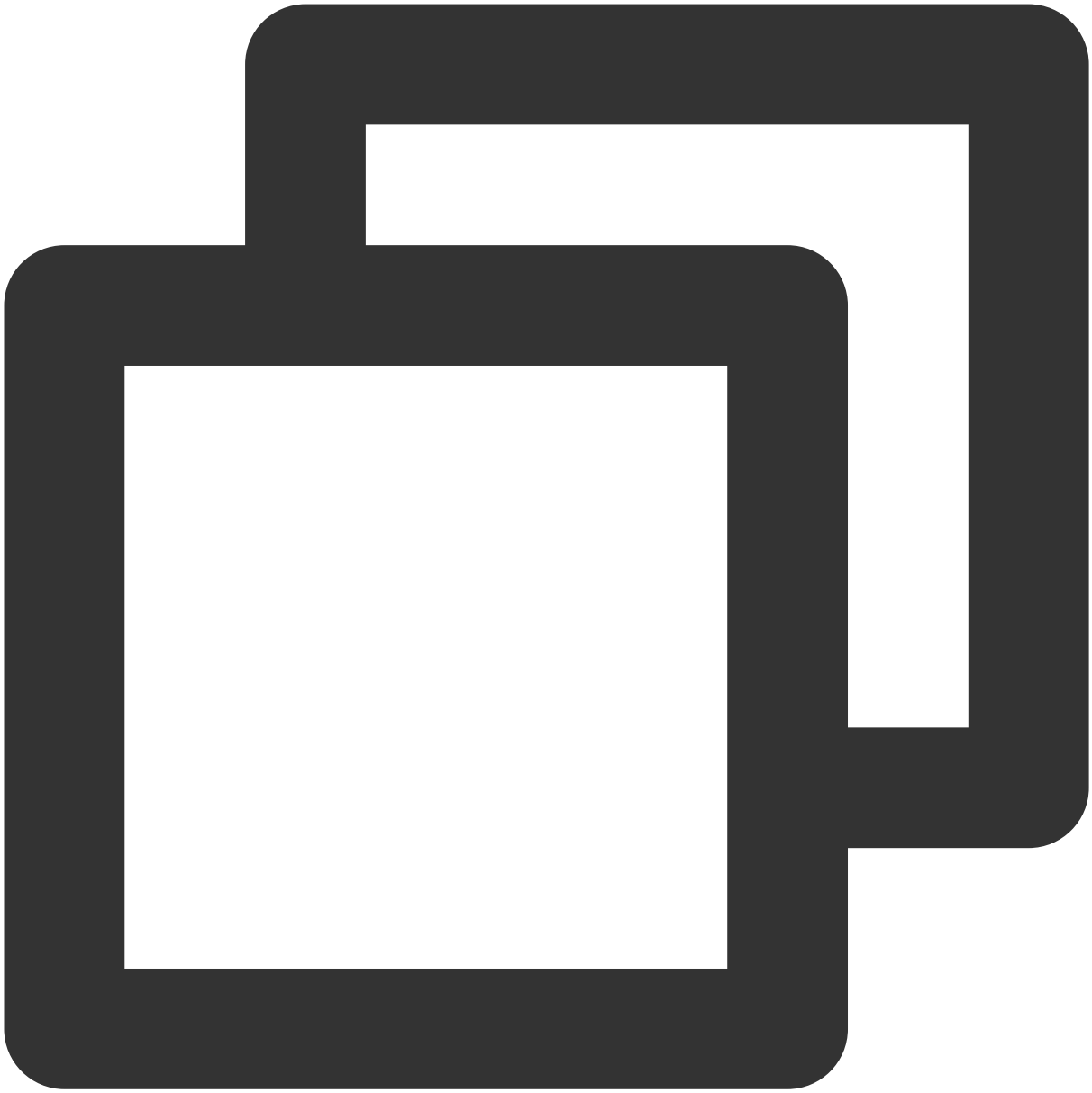

```
PUT /?intelligenttiering HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
User-Agent: python-requests/2.12.4
Content-Type: application/xml
Authorization: q-sign-algorithm=sha1&q-ak=AKID15IsskiBQKTZbAo6WhgcBqVls9Sm****&q-si
Content-Length: 83

<IntelligentTieringConfiguration xmlns="cos xmlns/">
```

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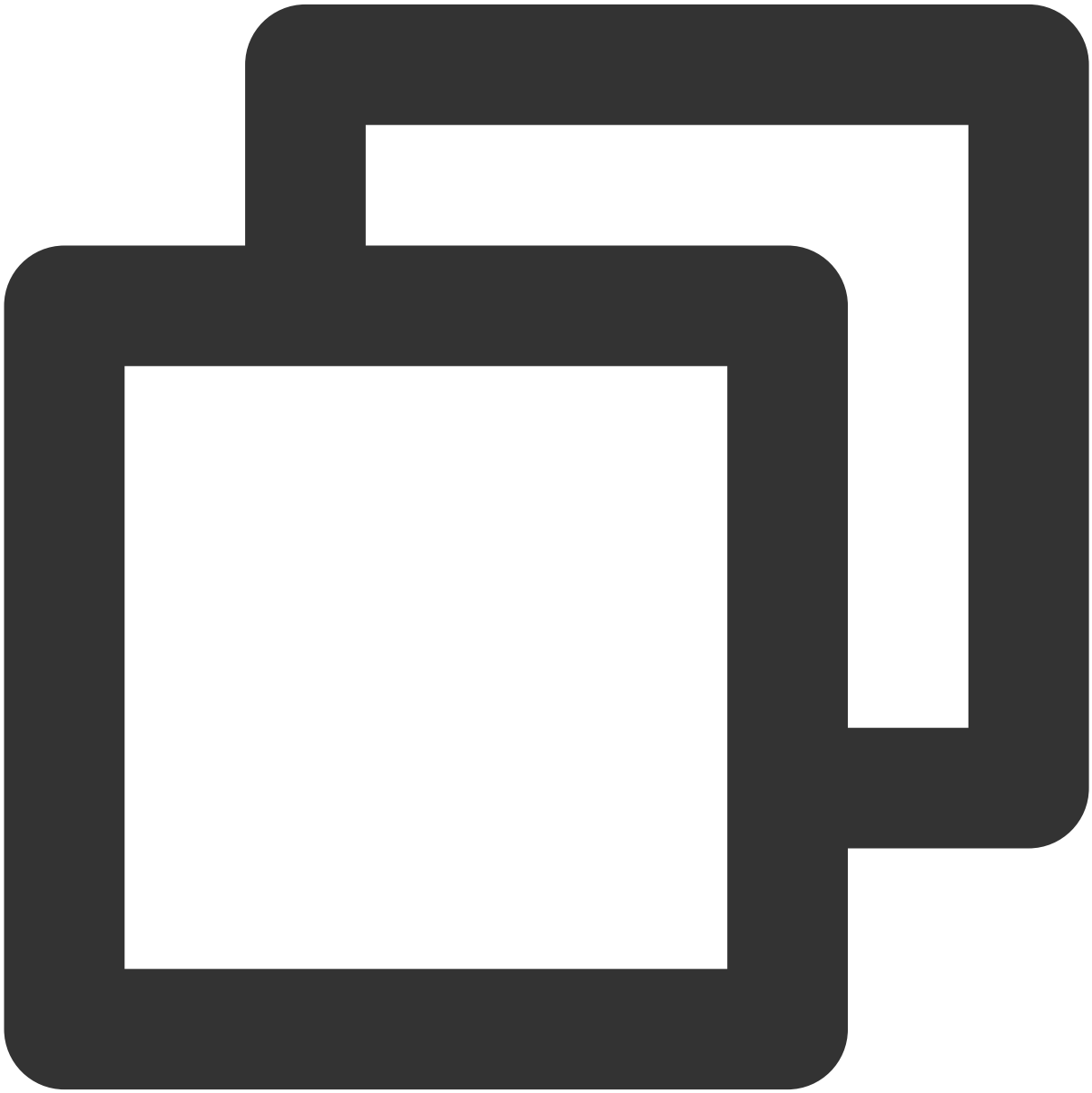
```
  <Status>Enabled</Status>
  <Transition>
    <Days>30</Days>
    <RequestFrequent>1</RequestFrequent>
  </Transition>
</IntelligentTieringConfiguration>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 0
Connection: keep-alive
Date: Sun, 23 Aug 2020 08:14:53 GMT
Server: tencent-cos
x-cos-request-id: NTk5ZDM5N2RfMjNiMjM1MGFfMmRiX2Y0****
```

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GET Bucket IntelligentTiering

Last updated：2024-03-28 18:08:33

Feature Description

This API is used to query the INTELLIGENT TIERING configuration of a bucket.

Note:

Only the root account and authorized sub-accounts can call this API.

The status of INTELLIGENT TIERING can only be enabled or suspended.

If you have never enabled INTELLIGENT TIERING for your bucket, the response will be:

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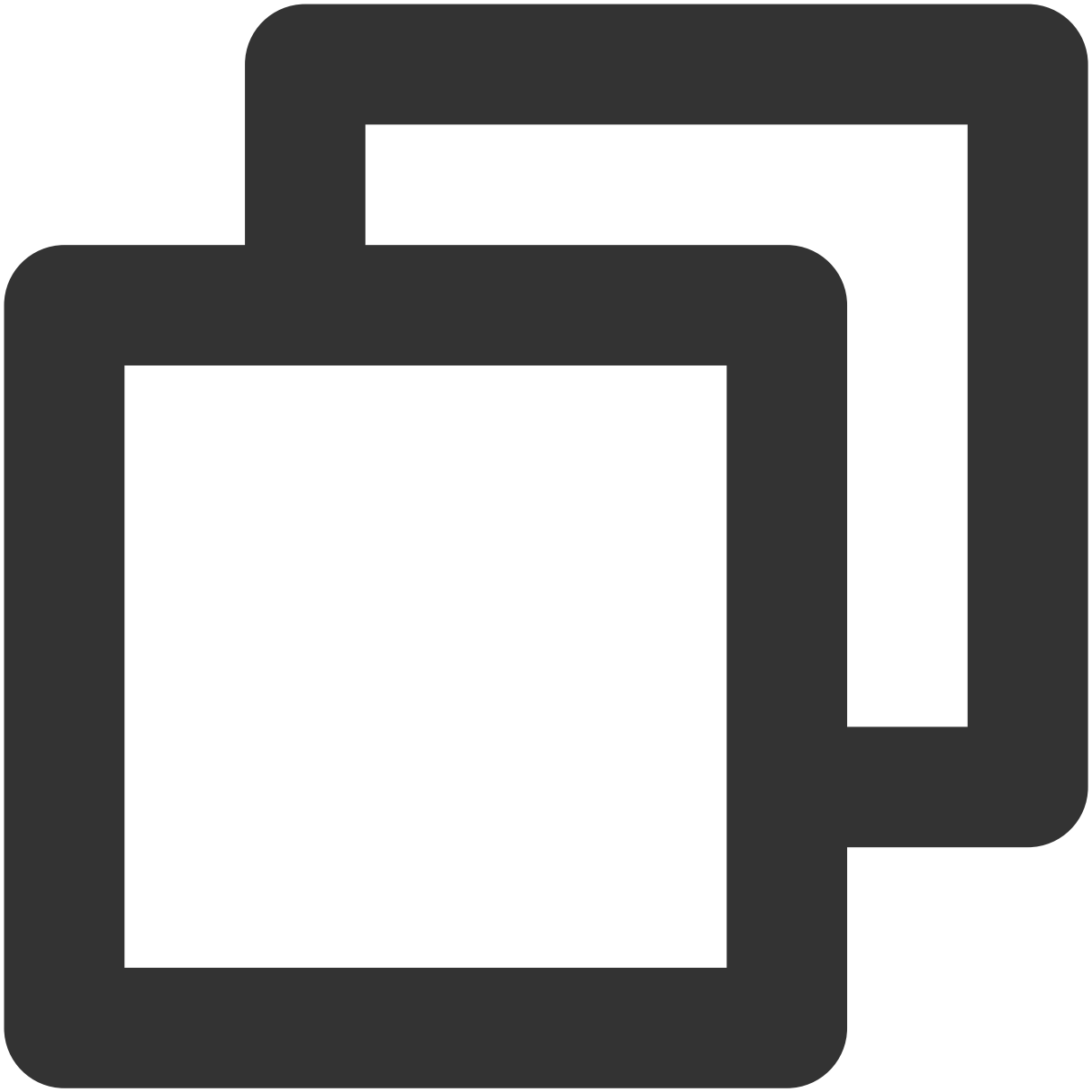

```
<IntelligentTieringConfiguration/>
```

If you have enabled INTELLIGENT TIERING for your bucket, the response will be:

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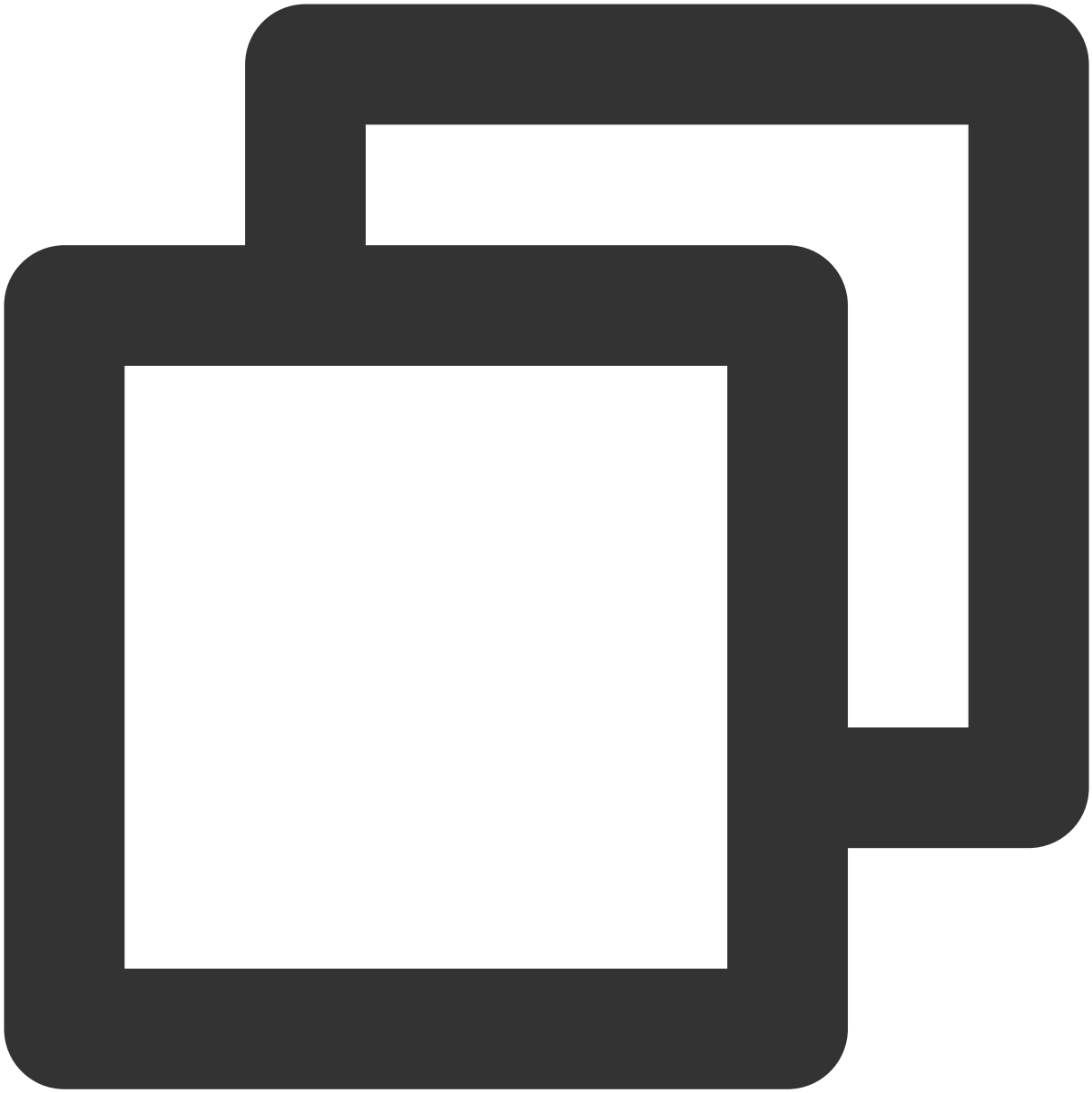

```
<IntelligentTieringConfiguration xmlns="cos xmlns/">
    <Status>Enabled</Status>
    <Transition>
       <Days>30</Days>
       <RequestFrequent>1</RequestFrequent>
    </Transition>
</IntelligentTieringConfiguration>
```

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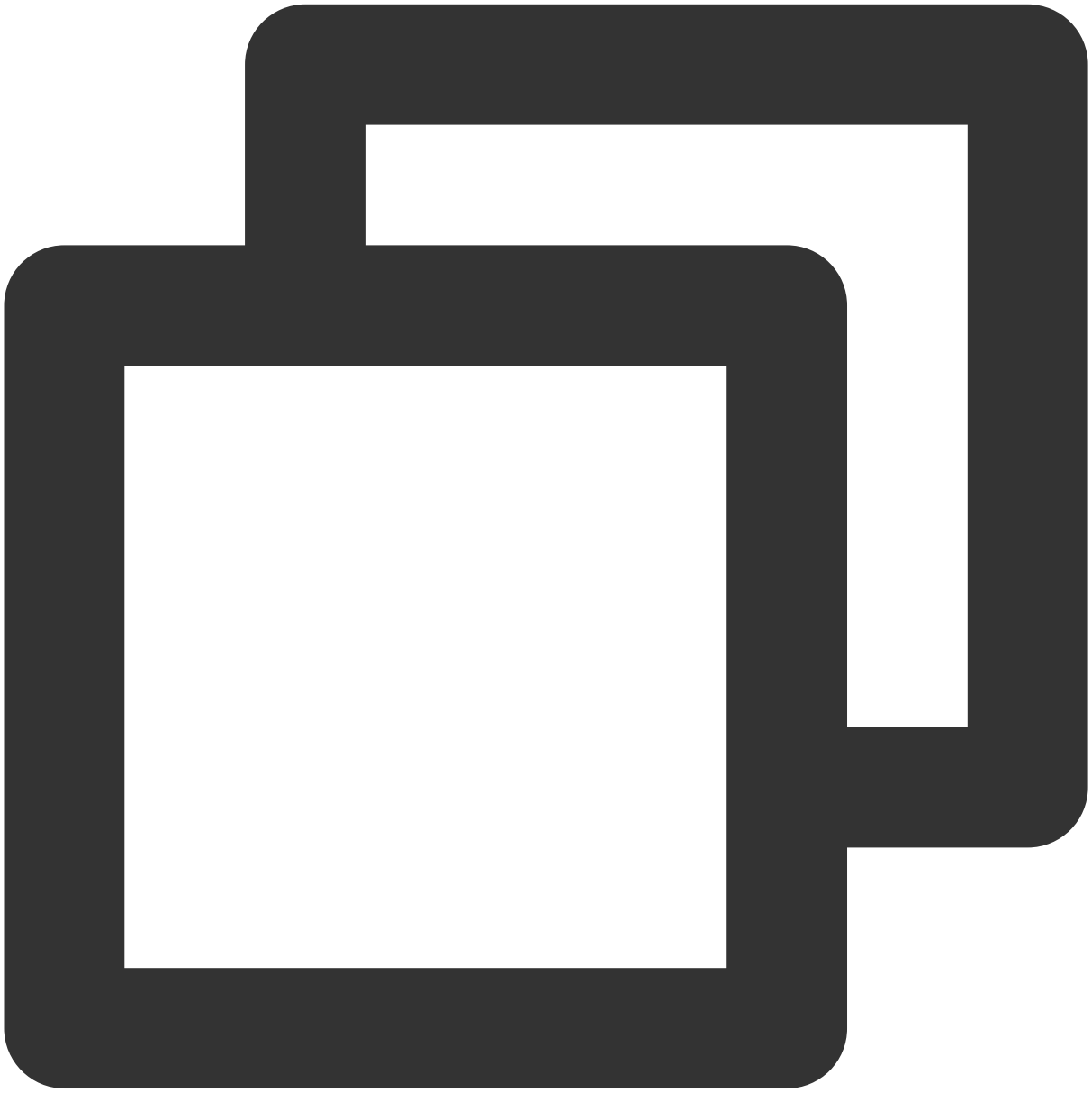
Request

Sample request



```
GET /?intelligenttiering HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT date
Authorization: Auth String
```

Note:

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In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

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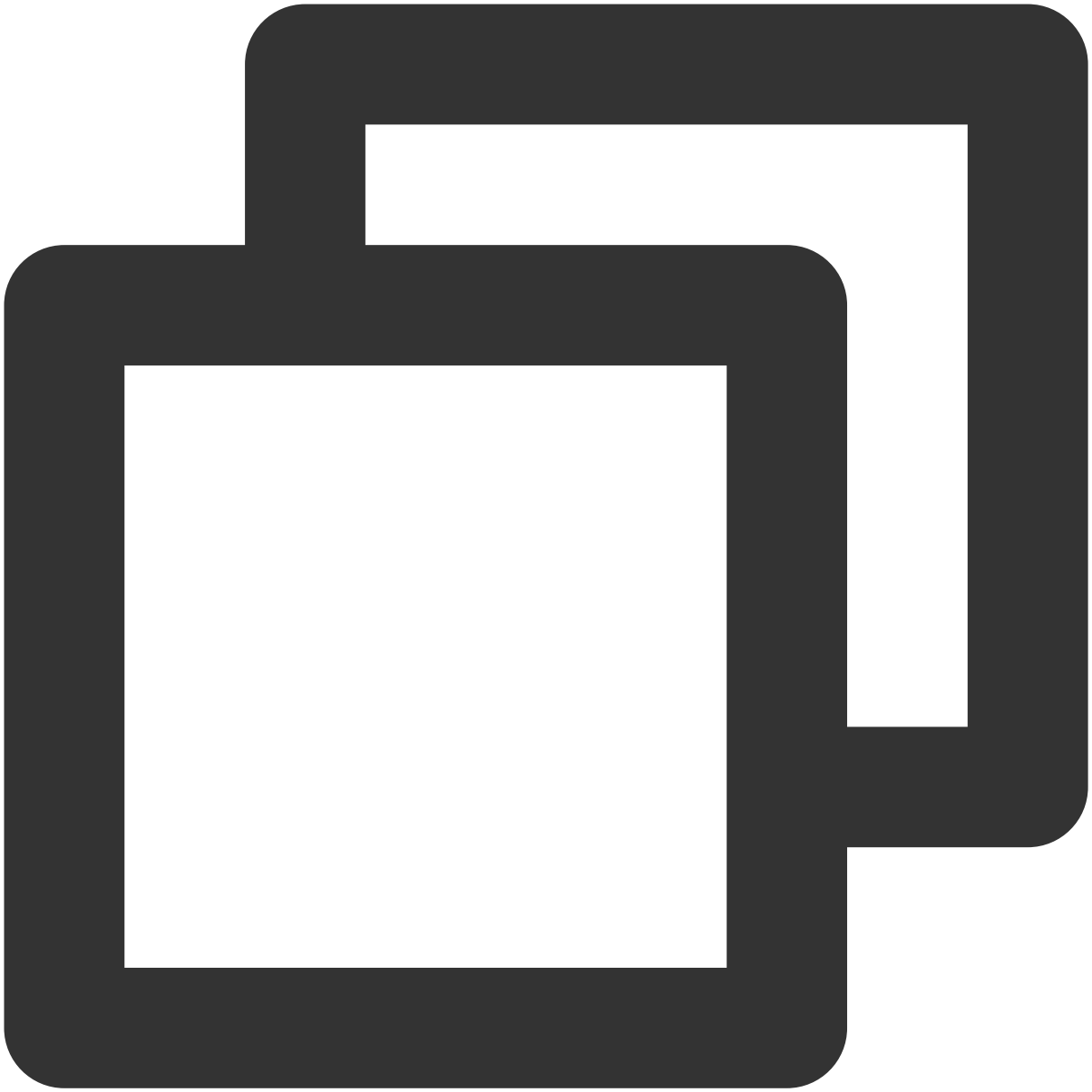

```
<IntelligentTieringConfiguration xmlns="cos xmlns/">
  <Status>Enabled</Status>
  <Transition>
    <Days>30|60|90</Days>
    <RequestFrequent>1</RequestFrequent>
  </Transition>
</IntelligentTieringConfiguration>
```

The nodes are described as follows:

Node	Parent Node	Description	Type

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IntelligentTieringConfiguration	None	Configuration of INTELLIGENT TIERING	Container
Status	IntelligentTieringConfiguration	Whether INTELLIGENT TIERING is enabled. Enumerated values: `Enabled`	Enum
Transition	IntelligentTieringConfiguration	Transition configuration for INTELLIGENT TIERING	Container
Days	IntelligentTieringConfiguration.Transition	The number of consecutive days used to determine whether to move objects from STANDARD to STANDARD_IA. Valid values: `30` (default), `60`, `90`	Int
RequestFrequent	IntelligentTieringConfiguration.Transition	The limit of access times used to determine whether to move objects from STANDARD to STANDARD_IA. The default value is `1`. It can achieve object transition when used with `Days`. For example, if this parameter is set to `1` and `Days` is set to `30`, objects accessed less than once in	Int

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		30 consecutive days will be moved from STANDARD to STANDARD_IA.	

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Examples

Request

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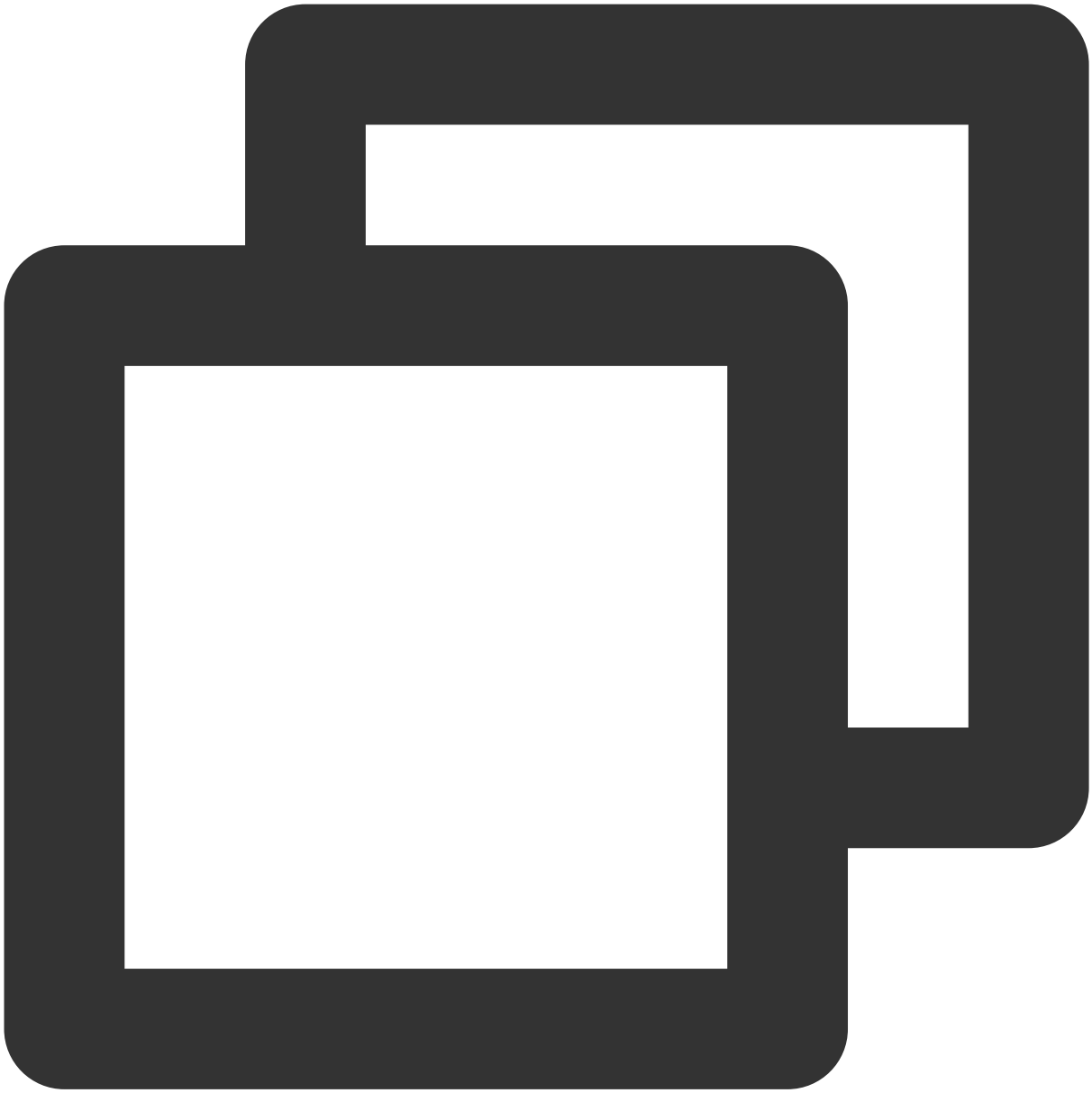

```
GET /?intelligenttiering HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
User-Agent: python-requests/2.12.4
Authorization: q-sign-algorithm=sha1&q-ak=AKID15IsskiBQKTZbAo6WhgcBqVls9Sm****&q-si
```

Response

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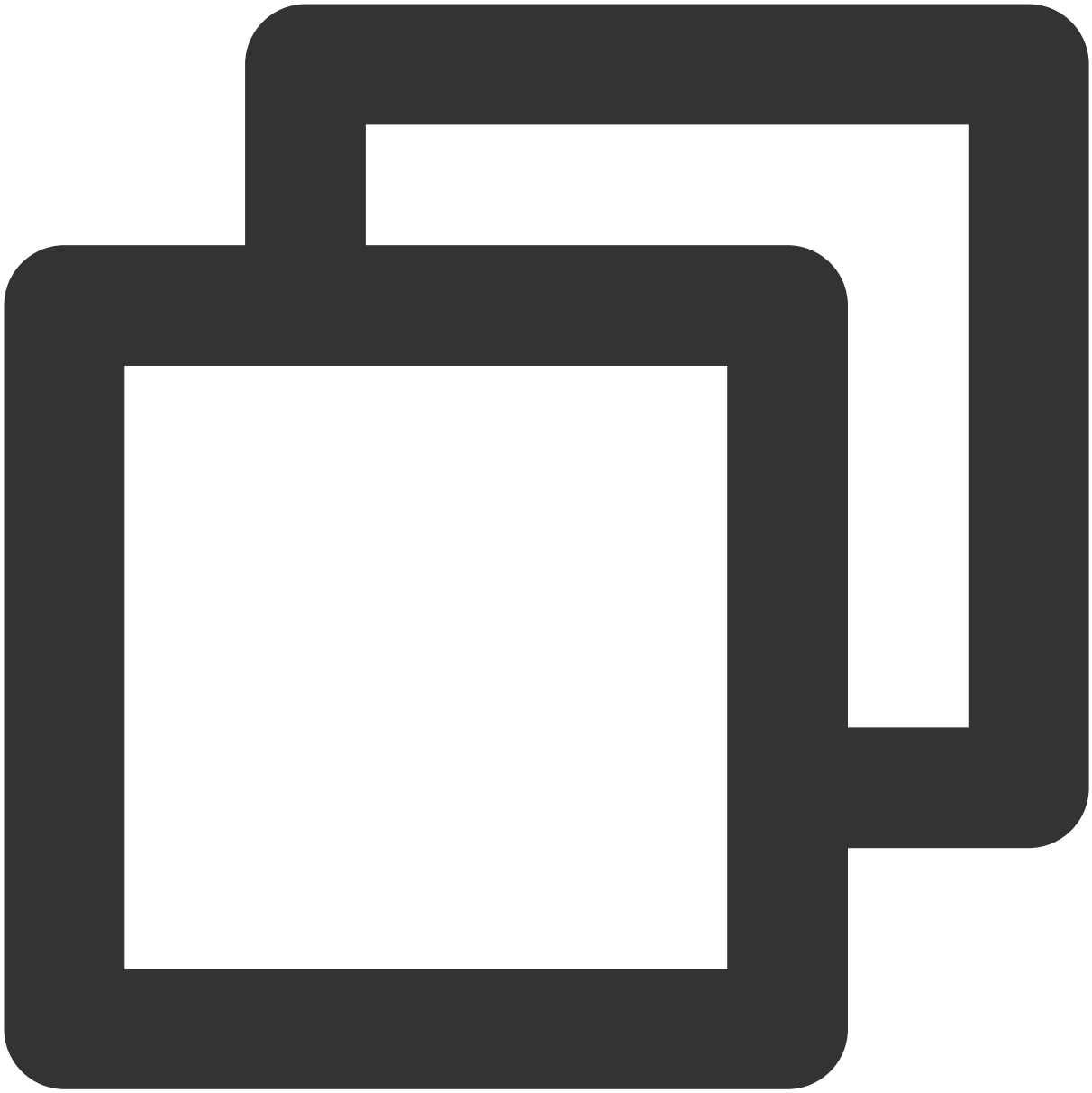

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 120
Connection: keep-alive
Date: Sun, 23 Aug 2020 08:15:16 GMT
Server: tencent-cos
x-cos-request-id: NTk5ZDM5OTRfZDNhZDM1MGFfMjYyMTFfZmU3****

<IntelligentTieringConfiguration xmlns="cos xmlns/">
  <Status>Enabled</Status>
  <Transition>
```

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```
    <Days>30</Days>
    <RequestFrequent>1</RequestFrequent>
  </Transition>
</IntelligentTieringConfiguration>
```

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Bucket inventory(inventory)
PUT Bucket Inventory

Last updated：2024-03-28 18:08:33

Overview

This API is used to create an inventory job for a bucket. For more information, see Inventory Overview.

Note:

You can create up to 1,000 inventory jobs for each COS bucket.

You must add a bucket policy to the destination bucket for COS to write the output file of the inventory job to the destination bucket.

To call this API, ensure that you have obtained required permissions from the bucket owner to operate on the inventory jobs for the bucket. The bucket owner has such permissions by default. For the authorization directions, please see Inventory Overview - Directions.

If you specify a prefix for the destination path of the inventory report, COS will automatically append a slash (/) to the specified prefix. For example, if you set the prefix to `Prefix` , COS will deliver the inventory report to `Prefix/inventory_report` .

Request

Sample request

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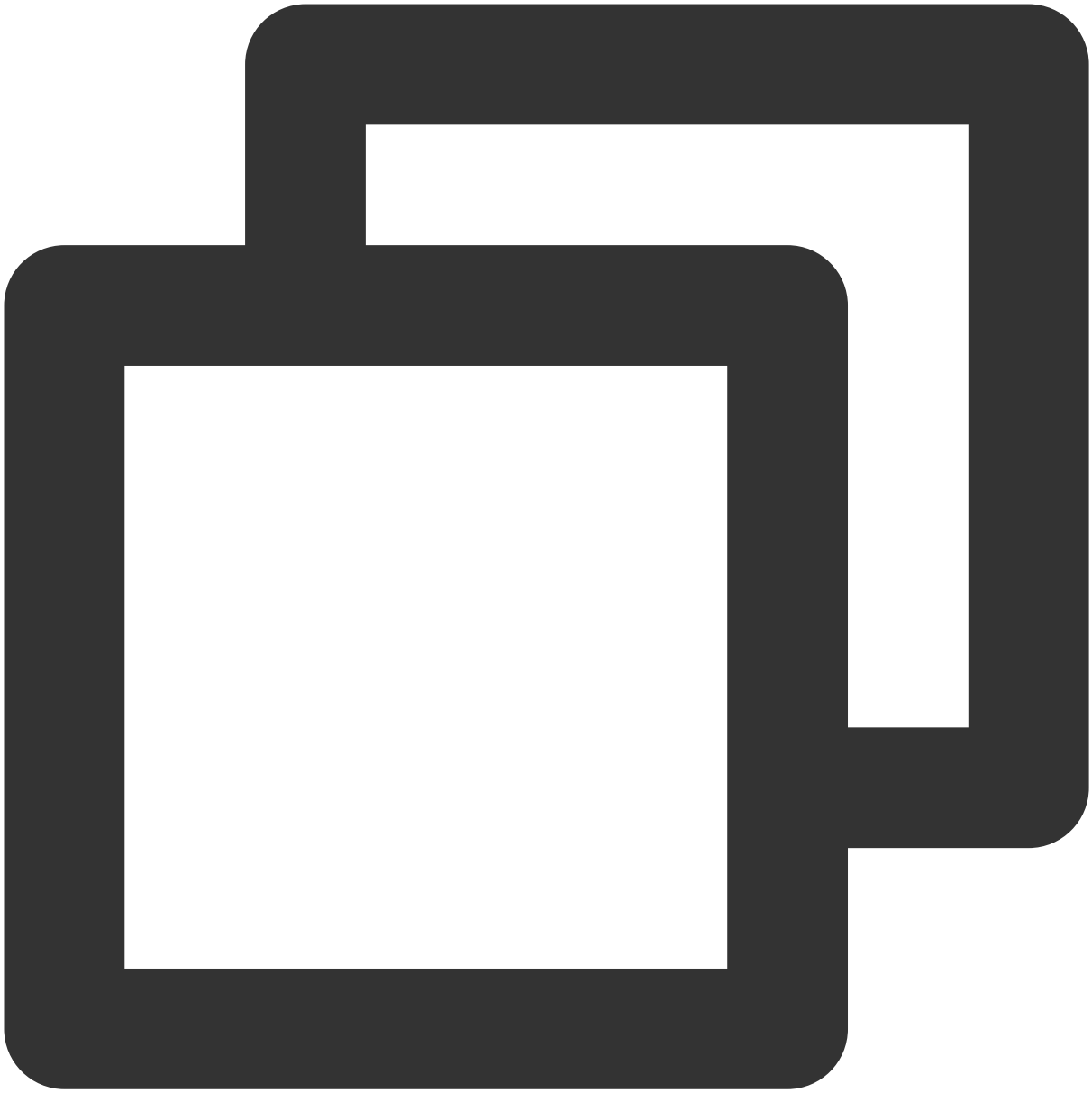

```
PUT /?inventory&id=inventory-configuration-ID HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Content-MD5: MD5
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

To call `PUT Bucket inventory` , specify the following parameter:

Parameter	Description	Type	Required
Id	ID of the inventory job. Default value: `None` Letters, digits, hyphens (-), underscores (_), and dots (.) are supported.	String	Yes

Request headers

This API only uses Common Request Headers.

Request body

You can configure the inventory job in the request body using the XML markup language. The configuration includes objects to analyze, analysis frequency, analysis dimensions, and the format and destination path of the analysis result.

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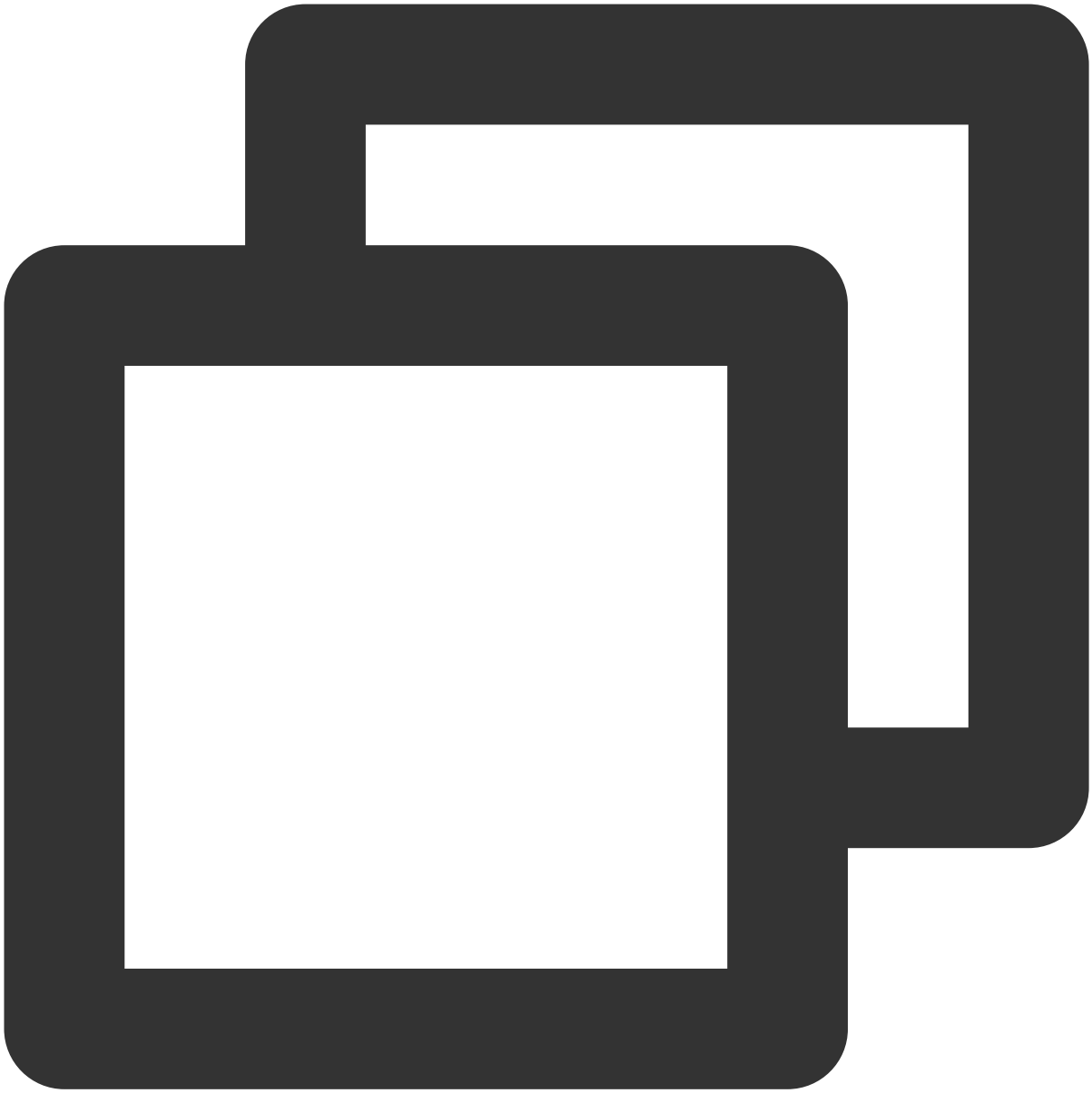

```
<InventoryConfiguration>
    <Id>list1</Id>
    <IsEnabled>true</IsEnabled>
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>100000000001</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::examplebucket-1250000000</Bucket>
            <Prefix>list1</Prefix>
            <Encryption>
                <SSE-COS></SSE-COS>
```

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```
            </Encryption>
        </COSBucketDestination>
    </Destination>
    <Schedule>
        <Frequency>Daily</Frequency>
    </Schedule>
    <Filter>
        <Prefix>myPrefix</Prefix>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>ETag</Field>
        <Field>StorageClass</Field>
        <Field>IsMultipartUploaded</Field>
        <Field>ReplicationStatus</Field>
        <Field>Tag</Field>
        <Field>Crc64</Field>
        <Field>x-cos-meta-*</Field>
    </OptionalFields>
</InventoryConfiguration>
```

The nodes are described as follows:

Node	Parent Node	Description	Type	Required
InventoryConfiguration	None	Inventory configurations	Container	Yes
Id	InventoryConfiguration	Inventory ID, corresponding to the request parameter `id`	Container	Yes
IsEnabled	InventoryConfiguration	Whether to enable the inventory `true` : Yes `false` : No (no inventory will be generated.)	String	Yes
IncludedObjectVersions	InventoryConfiguration	Whether to include object versions in the inventory `All` : Yes (the inventory will include all object versions and the additional fields `VersionId` , `IsLatest` , and `DeleteMarker` .)	String	Yes

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		`Current` : No		
Filter	InventoryConfiguration	Filters objects prefixed with the specified value to analyze.	Container	No
And	Filter	When you filter the objects to analyze, if both conditions `Prefix` and `Tag` are required, use the `And` container.	Container	No
Prefix	And	Prefix of the objects to analyze	String	No
Tag	And	When you filter the objects to analyze, you can use one or multiple object tags as a filter condition.	Container	No
Period	Filter	Creation time range of the objects to analyze	Container	No
StartTime	Period	Creation start time of the objects to analyze. The parameter is a timestamp in seconds, for example, 1568688761.	String	No
EndTime	Period	Creation end time of the objects to analyze. The parameter is a timestamp in seconds, for example, 1568688762.	String	No
OptionalFields	InventoryConfiguration	Analysis items to include in the inventory result	Container	No
Field	OptionalFields	Optional analysis items to include in the inventory result. The optional fields include `Size` , `LastModifiedDate` , `StorageClass` , `ETag` , `IsMultipartUploaded` , `ReplicationStatus` ,	String	No

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		`Tag` , `Crc64` , and `x-cos-meta-*` . Note that if `Tag` is used as a filter condition, the `Tag` field must be included in the inventory result. In addition, custom headers in the format of `x-cos-meta-*` are supported, for example, `x-cos-meta-testheader` . If such a custom header is entered, the corresponding object metadata will be output in the inventory. If the object does not include the metadata, the field is null.		
Schedule	InventoryConfiguration	Inventory job cycle	Container	Yes
Frequency	Schedule	Frequency of the inventory job. Enumerated values: `Daily` , `Weekly`	String	Yes
Destination	InventoryConfiguration	Information about the inventory result destination	Container	Yes
COSBucketDestination	Destination	Information about the bucket that stores the exported inventory result	Container	Yes
Bucket	COSBucketDestination	Bucket name	String	Yes
AccountId	COSBucketDestination	ID of the bucket owner, for example, `100000000001`	String	No
Prefix	COSBucketDestination	Prefix of the inventory result	String	No
Format	COSBucketDestination	Format of the inventory result. Valid value: `CSV`	String	Yes
Encryption	COSBucketDestination	Server-side encryption for the inventory result	Container	No
SSE-COS	Encryption	Encryption with COS-managed key. This field can be left empty.	Container	No

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Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example 1: Adding an inventory job with a specified object prefix

Request

This example adds an inventory job named `list1` to the `examplebucket-1250000000` bucket.
Objects to analyze: objects prefixed with `myPrefix` and all their versions in the bucket
Analysis frequency: daily
Analysis dimensions: `Size`, `LastModifiedDate`, `StorageClass`, `ETag`, `IsMultipartUploaded`, and `ReplicationStatus`
Analysis result: to be stored in the `examplebucket-1250000000` bucket as a CSV file, which is prefixed with `list1` and encrypted with SSE-COS.

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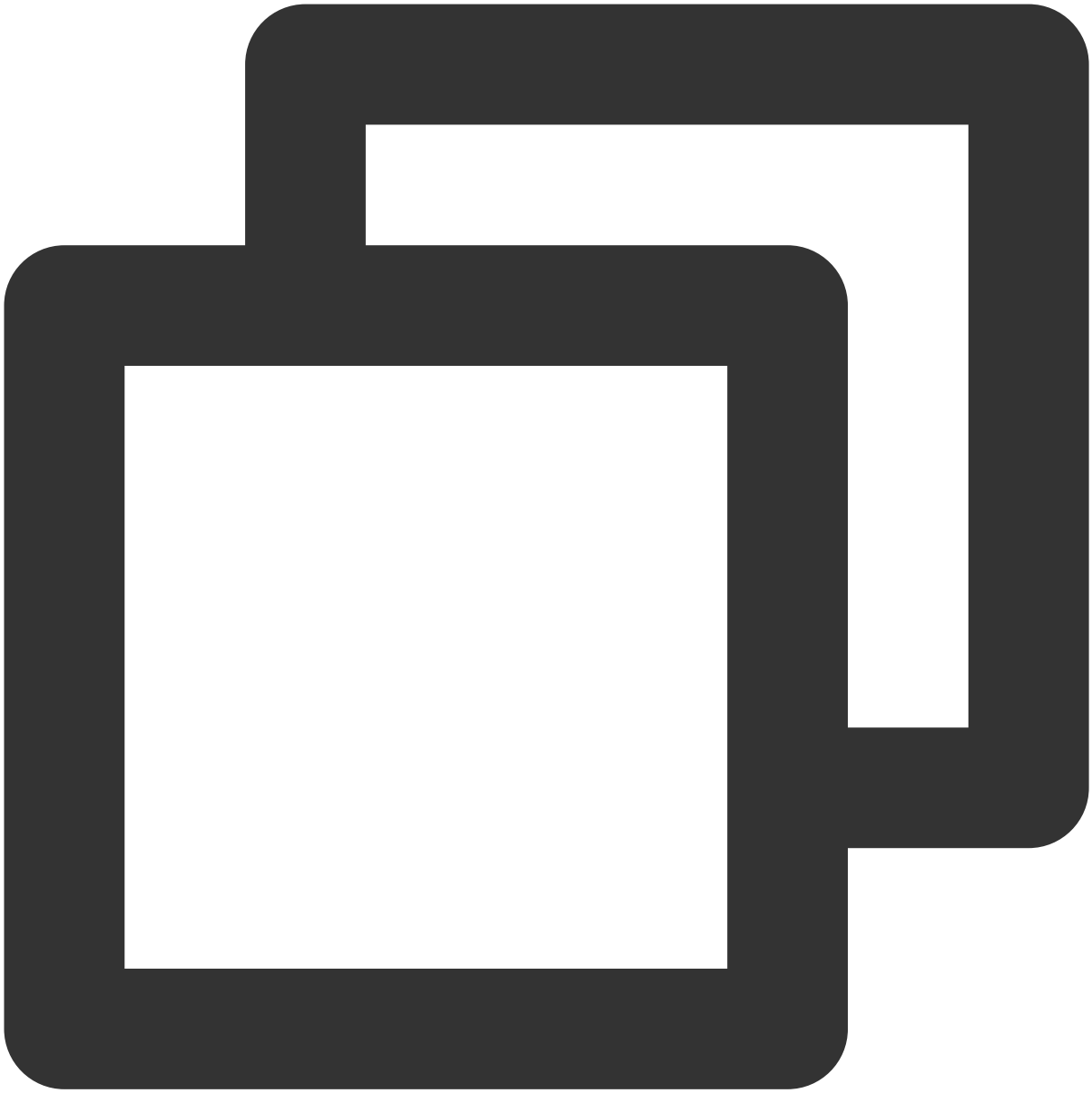

```
PUT /?inventory&id=list1 HTTP/1.1
Date: Mon, 28 Aug 2018 02:53:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Content-MD5: AAq9nzrpsz5LJ4UEe1f6Q==
Host: examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
Content-Length: 1024

<?xml version = "1.0" encoding = "UTF-8">
<InventoryConfiguration xmlns = "http://....">
    <Id>list1</Id>
    <IsEnabled>true</IsEnabled>
```

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```
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>100000000001</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::examplebucket-1250000000</Bucket>
            <Prefix>list1</Prefix>
            <Encryption>
                <SSE-COS></SSE-COS>
            </Encryption>
        </COSBucketDestination>
    </Destination>
    <Schedule>
        <Frequency>Daily</Frequency>
    </Schedule>
    <Filter>
        <Prefix>myPrefix</Prefix>
      <Period>
        <StartTime>1568688761</StartTime>
        <EndTime>1568688762</EndTime>
      </Period>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>ETag</Field>
        <Field>StorageClass</Field>
        <Field>IsMultipartUploaded</Field>
        <Field>ReplicationStatus</Field>
    </OptionalFields>
</InventoryConfiguration>
```

Response

The response below indicates that the inventory job `list1` has been successfully configured.

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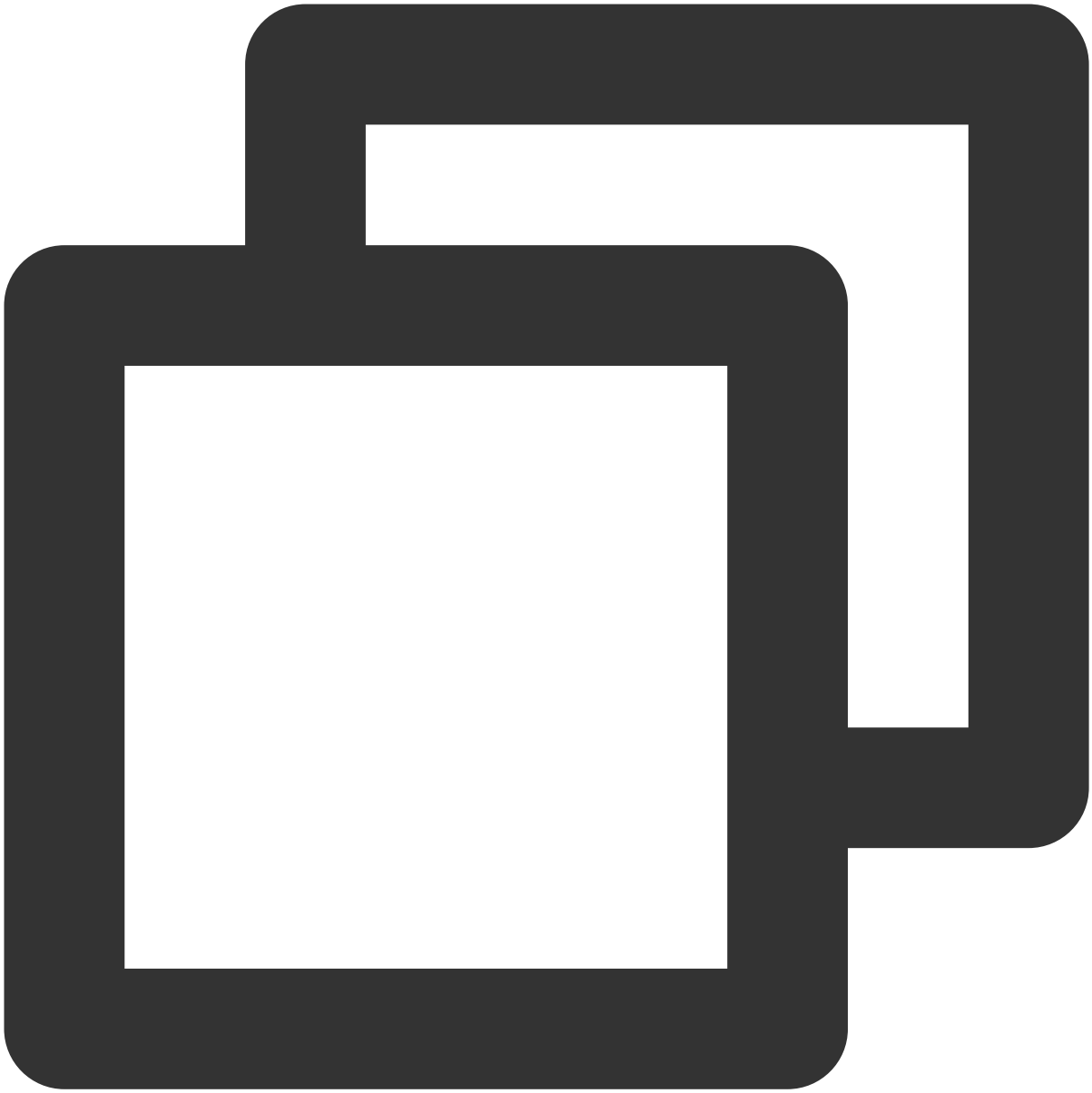

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Mon, 28 Aug 2018 02:53:38 GMT
Server: tencent-cos
x-cos-request-id: NTlhMzg1ZWVfMjQ4OGY3MGFfMWE1NF8****
```

Example 2: Adding an inventory job with a specified object prefix and object tag

Request

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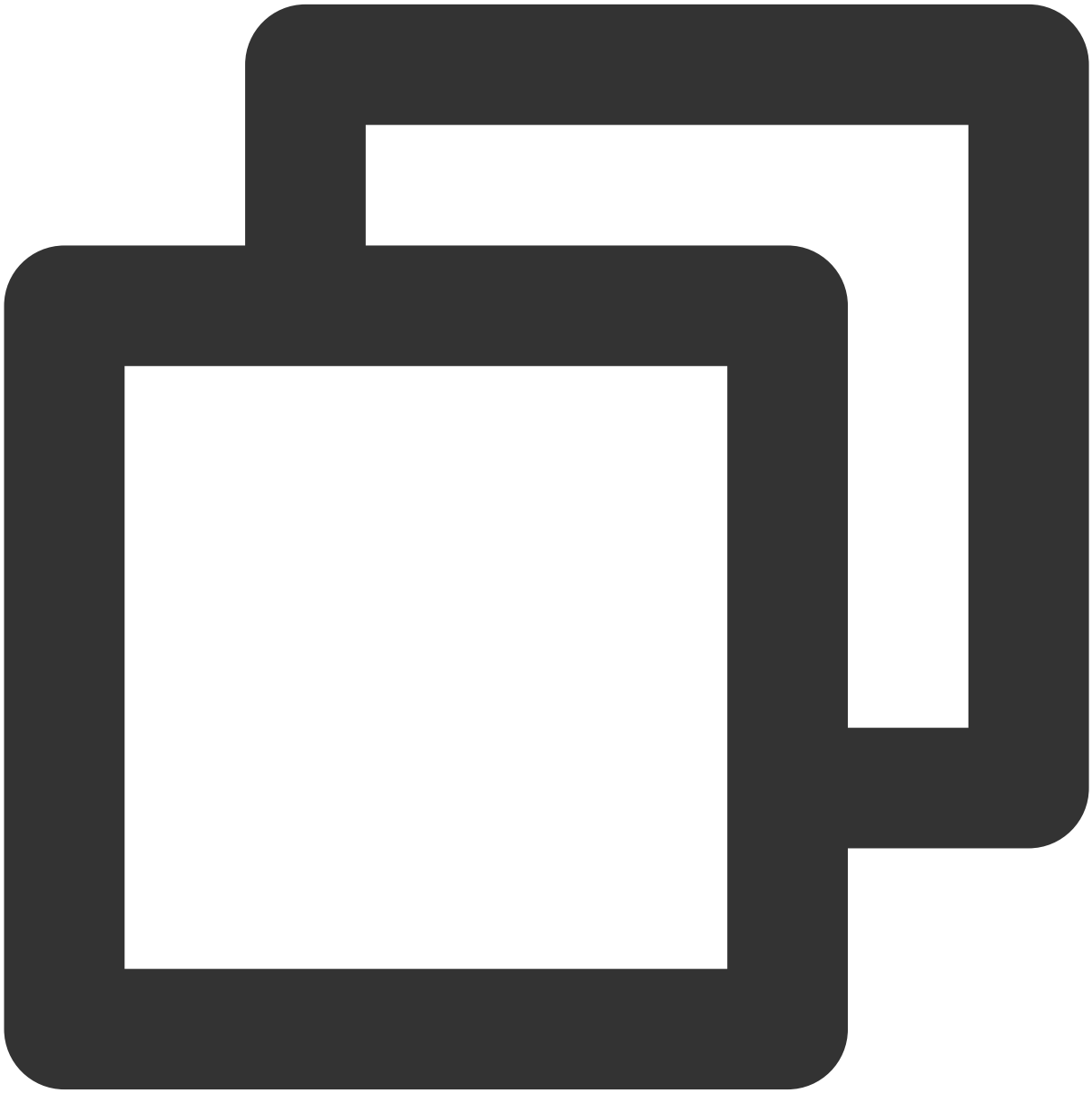
This example adds an inventory job named `list2` to the `examplebucket-1250000000` bucket.
The object (including its all versions) prefixed with `myPrefix` and tagged with {age:18} in the bucket will be analyzed.
Analysis frequency: daily
Analysis dimensions: `Size`, `LastModifiedDate`, `StorageClass`, `ETag`, `Tag`
The result will be stored in the `inventorybucket-1250000000` bucket as a CSV file.



```
PUT /?inventory&id=list2 HTTP/1.1
Date: Mon, 28 Aug 2018 02:53:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
```

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```
Content-MD5: AAq9nzrpsz5LJ4UEe1f6Q==
Host: examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
Content-Length: 1024

<?xml version = "1.0" encoding = "UTF-8">
<InventoryConfiguration xmlns = "http://....">
    <Id>list2</Id>
    <IsEnabled>true</IsEnabled>
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>100000000001</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::inventorybucket-1250000000</Bucket>
        </COSBucketDestination>
    </Destination>
    <Schedule>
        <Frequency>Daily</Frequency>
    </Schedule>
    <Filter>
        <And>
            <Prefix>myPrefix</Prefix>
            <Tag>
                <Key>age</Key>
                <Value>18</Value>
            </Tag>
        </And>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>StorageClass</Field>
        <Field>ETag</Field>
        <Field>Tag</Field>
    </OptionalFields>
</InventoryConfiguration>
```

Response

After the request above is made, COS returns the following response, indicating that the inventory task list2 has been successfully configured.

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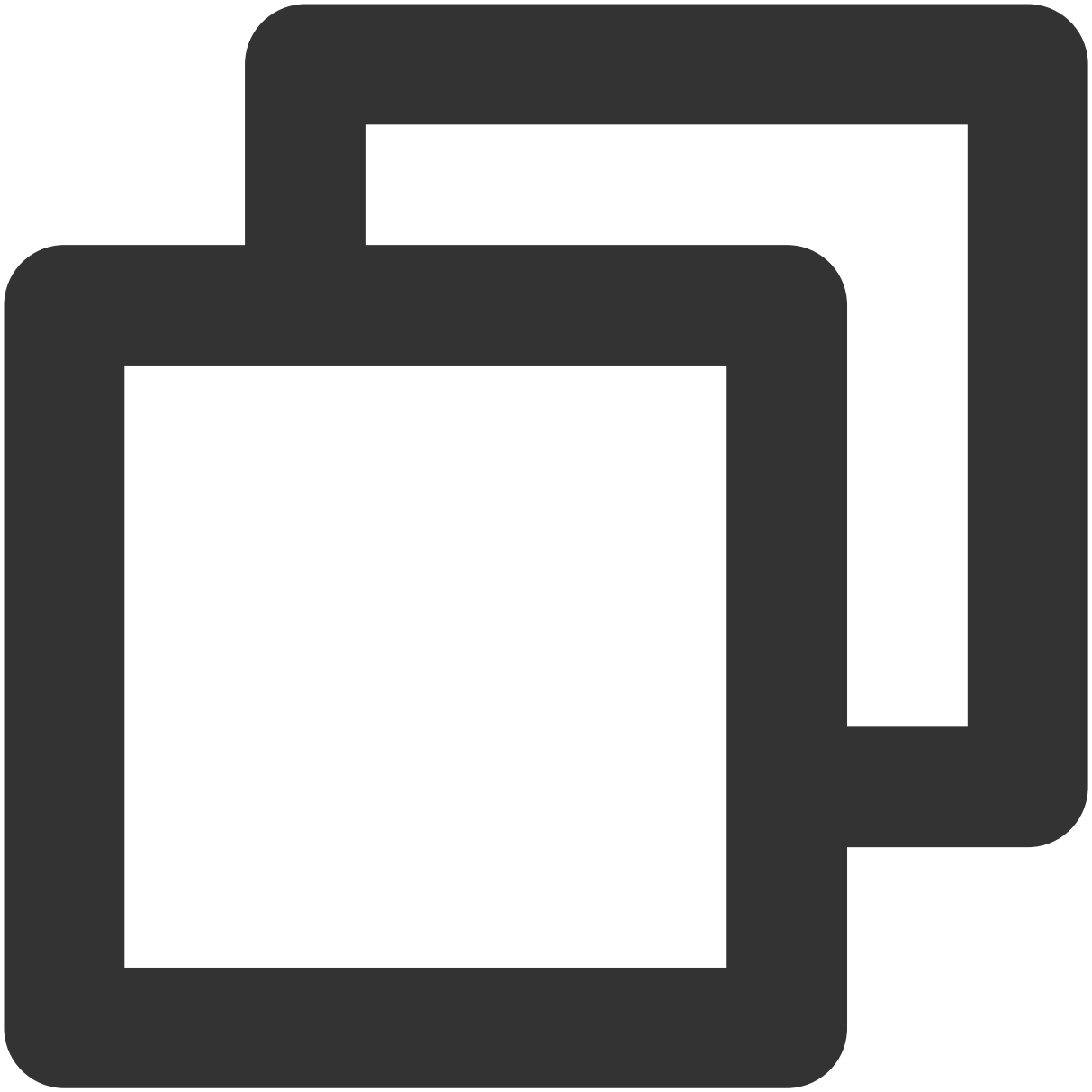

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Mon, 28 Aug 2018 02:53:38 GMT
Server: tencent-cos
x-cos-request-id: NTlhMzg1ZWVfMjQ4OGY3MGFfMWE1NF8****
```

Example 3: Adding an inventory job that supports outputting of custom headers of the object

Request

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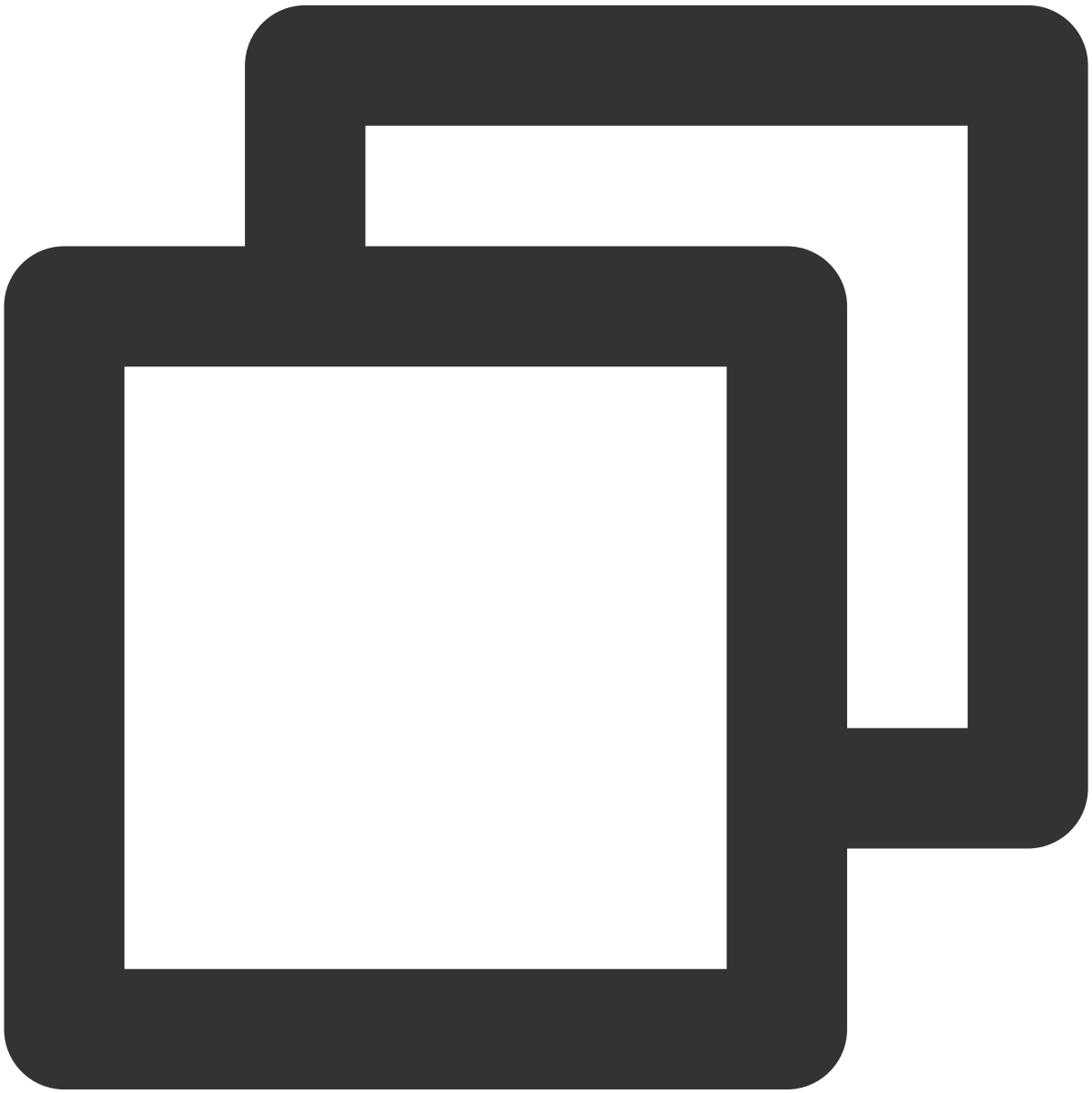
This example adds an inventory job named `list3` to the `examplebucket-1250000000` bucket.
The object (including its all versions) prefixed with `myPrefix` and tagged with {age:18} in the bucket will be analyzed.
Analysis frequency: daily
Analysis dimensions: `Size`, `LastModifiedDate`, `StorageClass`, `ETag`, `Tag`, `x-cos-meta-myheader`
The result will be stored in the `inventorybucket-1250000000` bucket as a CSV file.



```
PUT /?inventory&id=list2 HTTP/1.1
Date: Mon, 28 Aug 2018 02:53:38 GMT
```

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```
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Content-MD5: AAq9nzrpsz5LJ4UEe1f6Q==
Host: examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
Content-Length: 1024

<?xml version = "1.0" encoding = "UTF-8">
<InventoryConfiguration xmlns = "http://....">
    <Id>list3</Id>
    <IsEnabled>true</IsEnabled>
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>100000000001</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::inventorybucket-1250000000</Bucket>
        </COSBucketDestination>
    </Destination>
    <Schedule>
        <Frequency>Daily</Frequency>
    </Schedule>
    <Filter>
        <And>
            <Prefix>myPrefix</Prefix>
            <Tag>
                <Key>age</Key>
                <Value>18</Value>
            </Tag>
        </And>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>StorageClass</Field>
        <Field>ETag</Field>
        <Field>Tag</Field>
        <Field>Crc64</Field>
        <Field>x-cos-meta-myheader</Field>
    </OptionalFields>
</InventoryConfiguration>
```

Response

After the request above is made, COS returns the following response, indicating that the inventory job list3 has been successfully configured.

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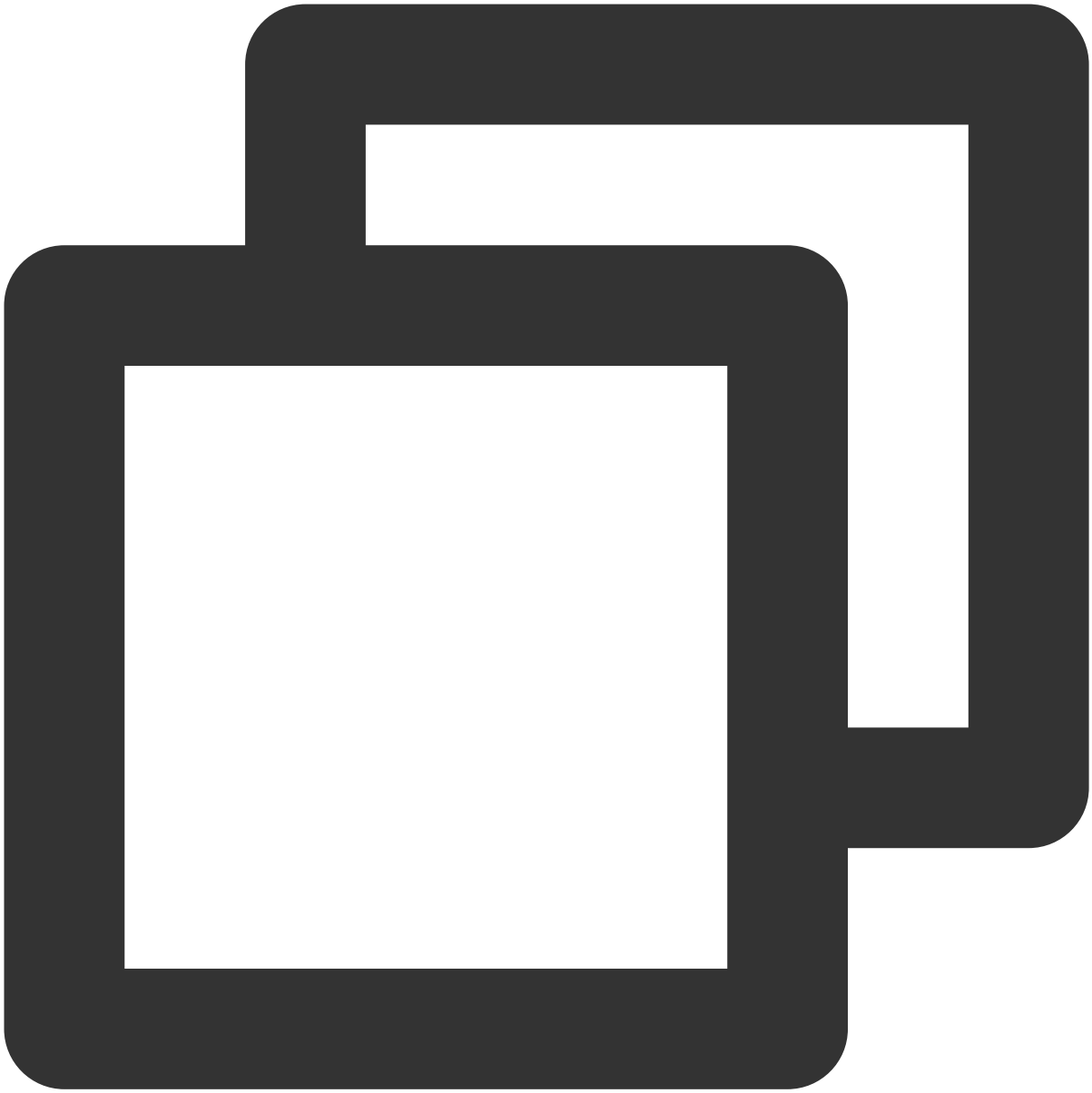

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Mon, 28 Aug 2018 02:53:38 GMT
Server: tencent-cos
x-cos-request-id: NTlhMzg1ZWVfMjQ4OGY3MGFfMWE1NF8****
```

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POST Bucket inventory

Last updated：2024-03-28 18:08:33

Feature Description

This API is used to create a one-time inventory job for a bucket, which is different from `PUT Bucket inventory`. Once created, the inventory job will be executed, and each job will be executed only once instead of repeated execution. You can use this API to get the object inventory of a bucket and manage objects in a refined way.

Note:

You must add a bucket policy to the destination bucket for COS to write the output file of the inventory job to the destination bucket.

To call this API, make sure that you have the necessary permission for bucket inventory jobs; the bucket owner has this permission by default. If you do not have it, you should request it from the bucket owner first.

If you specify a prefix for the destination path of the inventory report, COS will automatically append a slash (/) to the specified prefix. For example, if you set the prefix to `Prefix`, COS will deliver the inventory report to `Prefix/inventory_report`.

If you submit another inventory job with the same ID or use the same ID as the periodic inventory job before the first one is completed, the server will return a duplication error.

Request

Sample request

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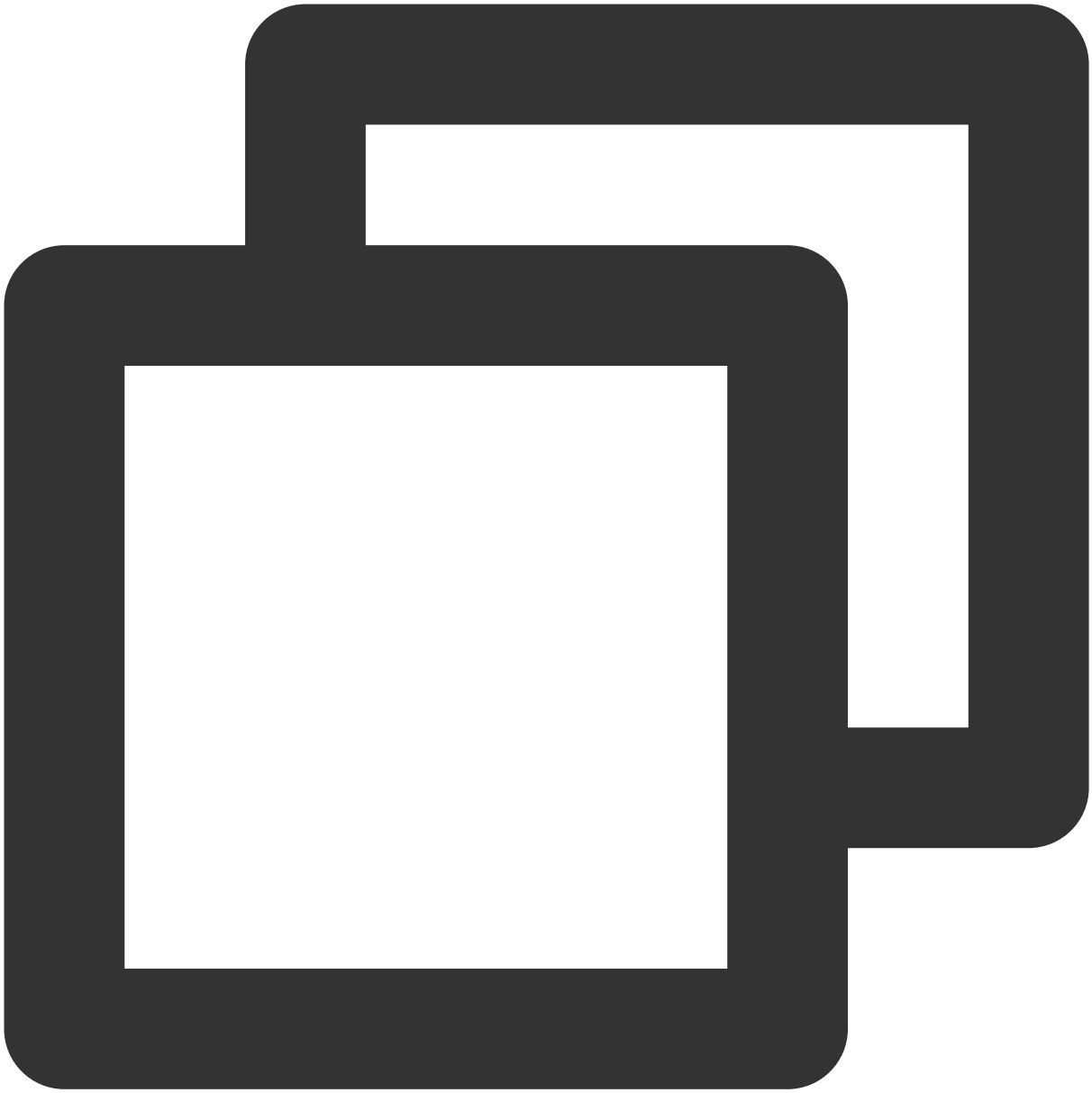

```
POST /?inventory&id=inventory-configuration-ID HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Content-MD5: MD5
```

Note:

Authorization: Auth String (For more information, see Request Signature.)

Request parameters

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To call `POST Bucket inventory`, specify the following parameter:

Parameter	Description	Type	Required
id	Inventory job name. Default value: None Valid character: `a-z, A-Z, 0-9, -, _, .` Note: We recommend that you should not use the same ID as the periodic inventory job or submit duplicate IDs within one day. Otherwise, errors will be returned.	String	Yes

Request headers

This API only uses Common Request Headers.

Request body

You can use the XML language in request body to configure the inventory job by following the rules below:

Note:

The one-time inventory job cannot include `IsEnabled` or `Schedule` parameter.

All other parameters are the same as PUT Bucket Inventory.

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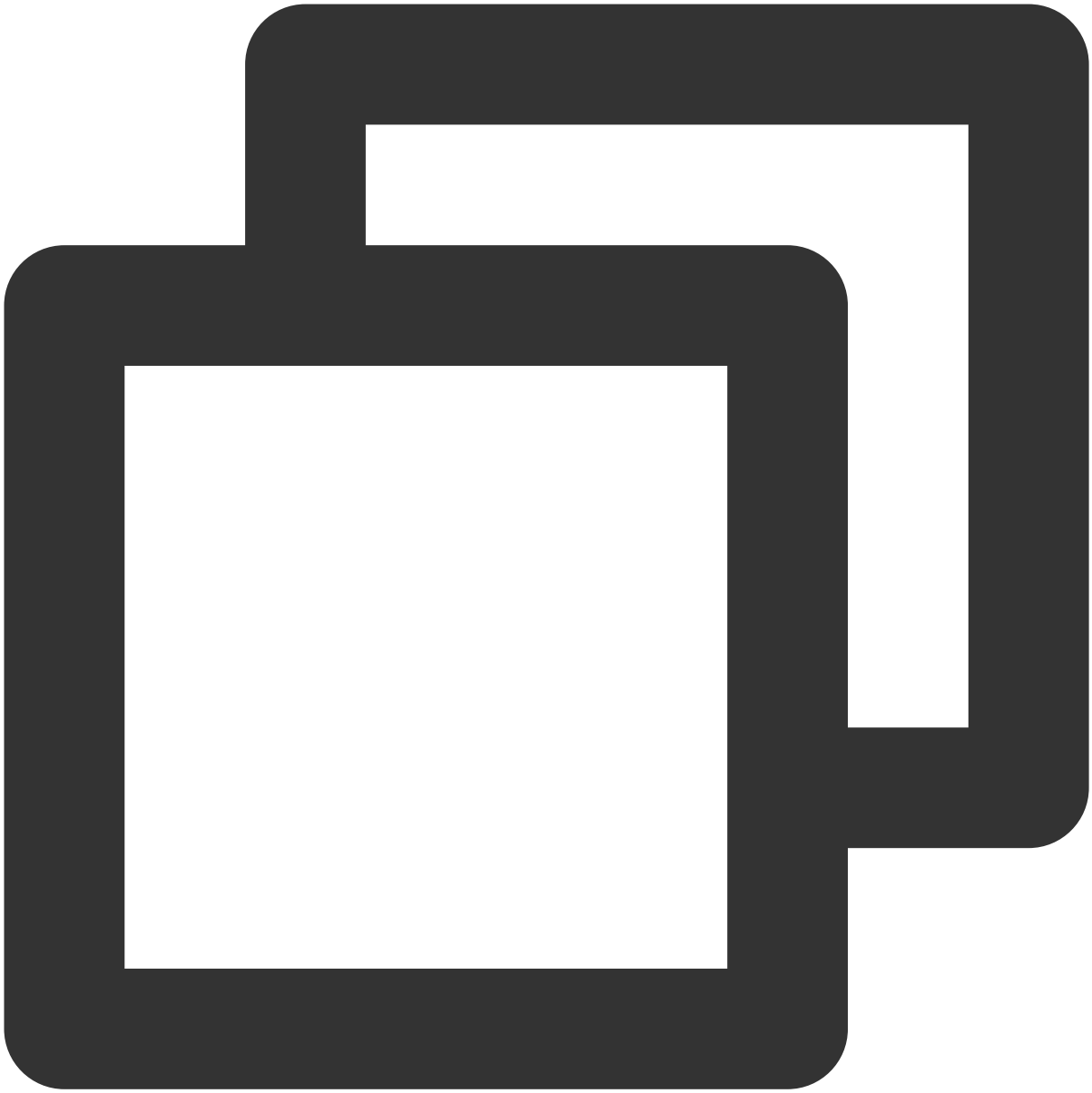

```
<InventoryConfiguration>
    <Id>list1</Id>
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>100000000001</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::examplebucket-1250000000</Bucket>
            <Prefix>list1</Prefix>
            <Encryption>
                <SSE-COS></SSE-COS>
            </Encryption>
```

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```
        </COSBucketDestination>
    </Destination>
    <Filter>
        <And>
            <Prefix>myPrefix</Prefix>
            <Tag>
                <Key>string</Key>
                <Value>string</Value>
            </Tag>
        </And>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>ETag</Field>
        <Field>StorageClass</Field>
        <Field>IsMultipartUploaded</Field>
        <Field>ReplicationStatus</Field>
    </OptionalFields>
</InventoryConfiguration>
```

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example: Filter by the specified prefix to generate a one-time inventory

Request

This example describes initiating an inventory job in `examplebucket-1250000000` .

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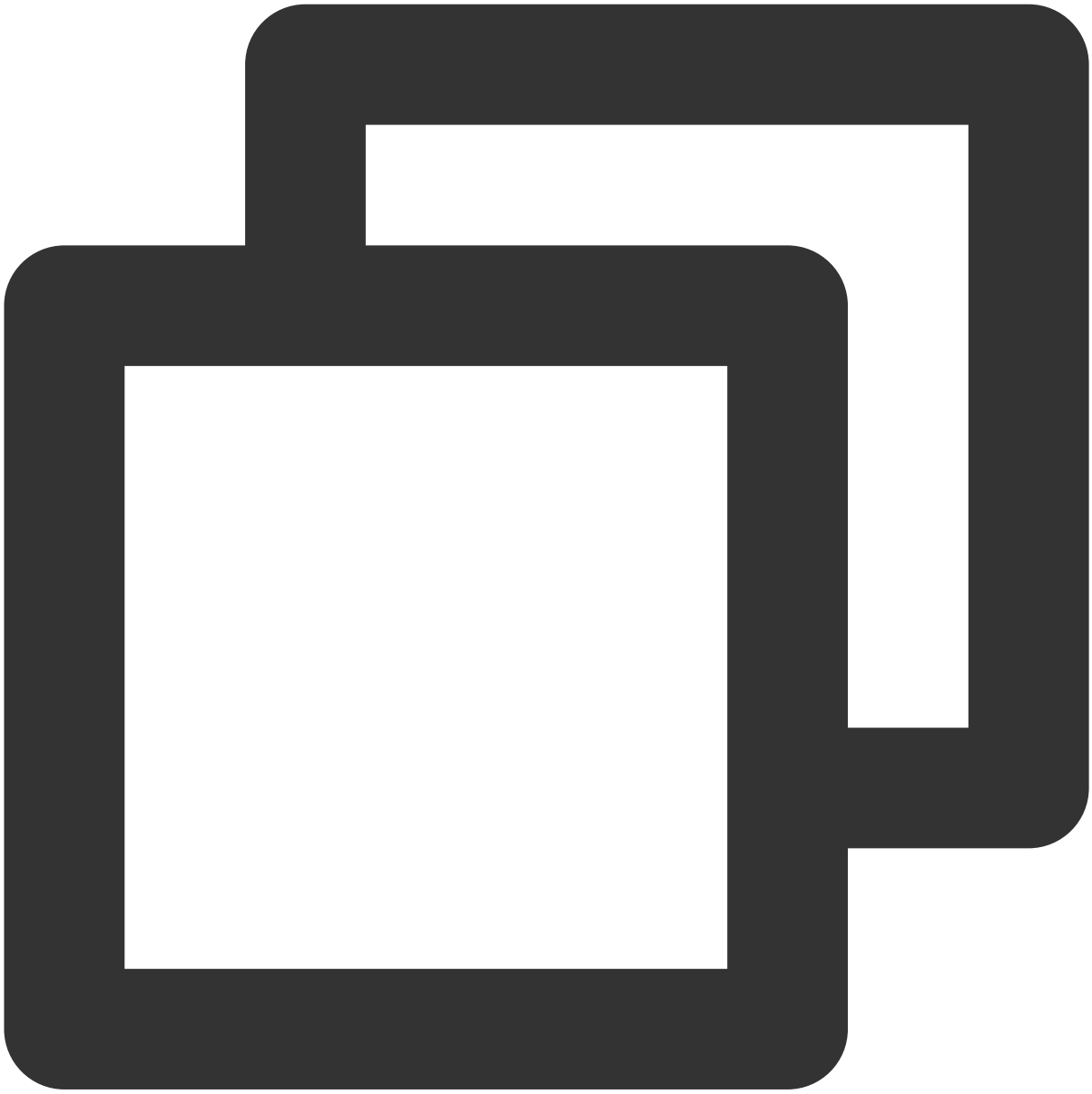
The object (including its all versions) prefixed with `myPrefix` and tagged with {age:18} in the bucket will be analyzed.
Analysis dimensions: `Size` ; `LastModifiedDate` ; `StorageClass` ; `ETag` ; `Tag` .
The result will be saved in the format of CSV in the bucket `examplebucket-1250000000` .



```
POST /?inventory&id=disposable HTTP/1.1
Date: Mon, 28 Aug 2018 02:53:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Content-MD5: AAq9nzrpsz5LJ4UEe1f6Q==
Host: examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
```

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```
Content-Length: 1024

<?xml version = "1.0" encoding = "UTF-8">
<InventoryConfiguration xmlns = "http://....">
    <Id>disposable</Id>
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>100000000001</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::inventorybucket-1250000000</Bucket>
        </COSBucketDestination>
    </Destination>
    <Filter>
        <And>
            <Prefix>myPrefix</Prefix>
            <Tag>
                <Key>age</Key>
                <Value>18</Value>
            </Tag>
        </And>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>StorageClass</Field>
        <Field>ETag</Field>
        <Field>Tag</Field>
    </OptionalFields>
</InventoryConfiguration>
```

Response

After the above request is made, COS will return the following response, indicating that the inventory job has been successfully submitted.

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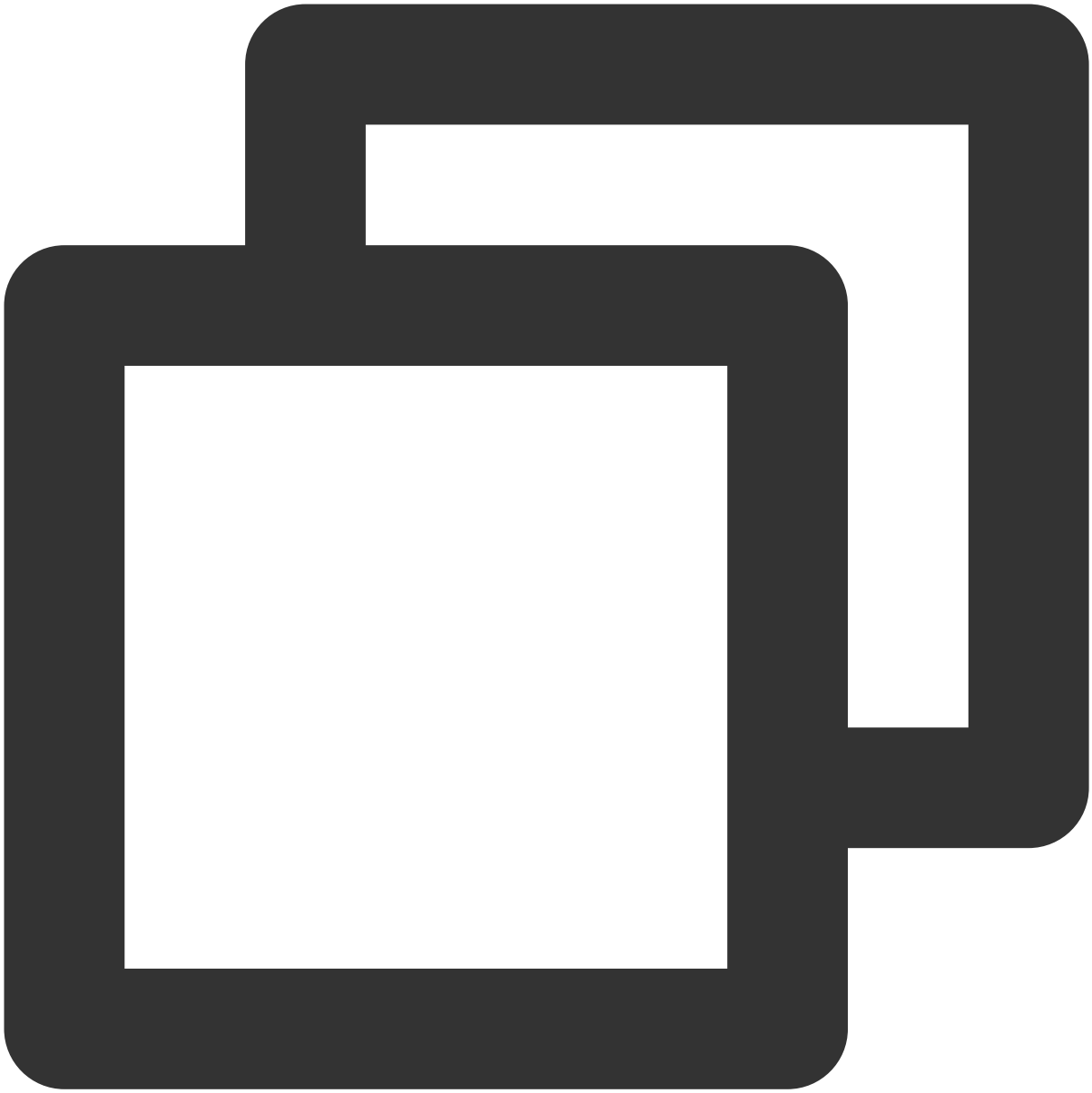

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Mon, 28 Aug 2018 02:53:38 GMT
Server: tencent-cos
x-cos-request-id: NTlhMzg1ZWVfMjQ4OGY3MGFfMWE1NF8****
```

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GET Bucket Inventory

Last updated：2024-03-28 18:08:33

Overview

This API is used to query an inventory job of a bucket. When calling this API, you need to specify the inventory job ID and carry a request signature. For more information, please see Inventory Overview.

Note:

To call this API, ensure that you have the necessary permission on the bucket inventory job.

The bucket owner has such permission by default. If you do not have the permission, you can request it from the bucket owner.

If you specify a prefix for the destination path of the inventory report, COS will automatically append a slash (/) to the specified prefix. For example, if you set the prefix to `Prefix` , COS will deliver the inventory report to `Prefix/inventory_report` .

Request

Sample request

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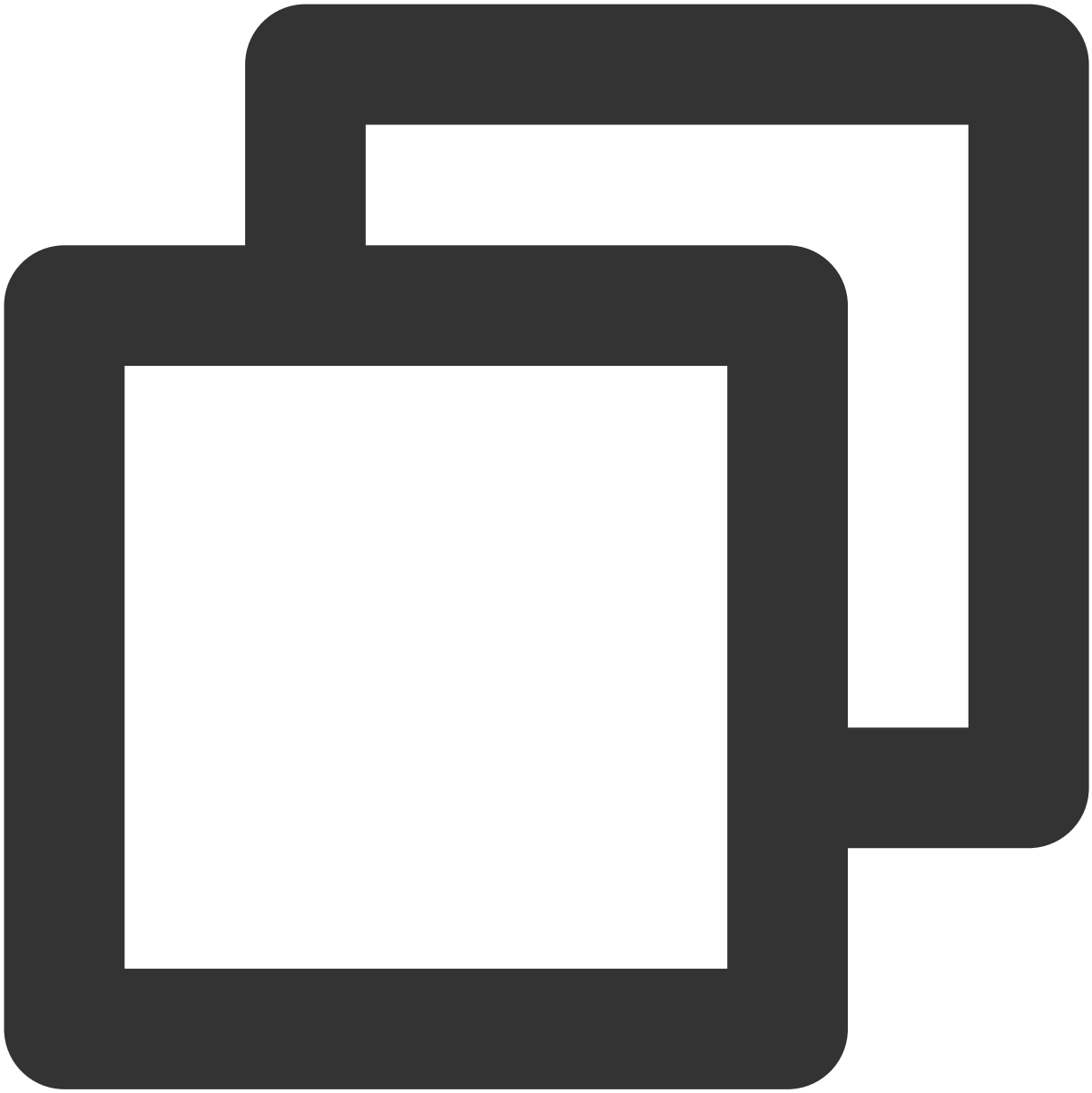

```
GET /?inventory&id=inventory-configuration-ID HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

To call `GET Bucket inventory` , specify the following parameter:

Parameter	Description	Type	Required
Id	ID of the inventory job. Default value: `None` Letters, digits, hyphens (-), underscores (_), and dots (.) are supported.	String	Yes

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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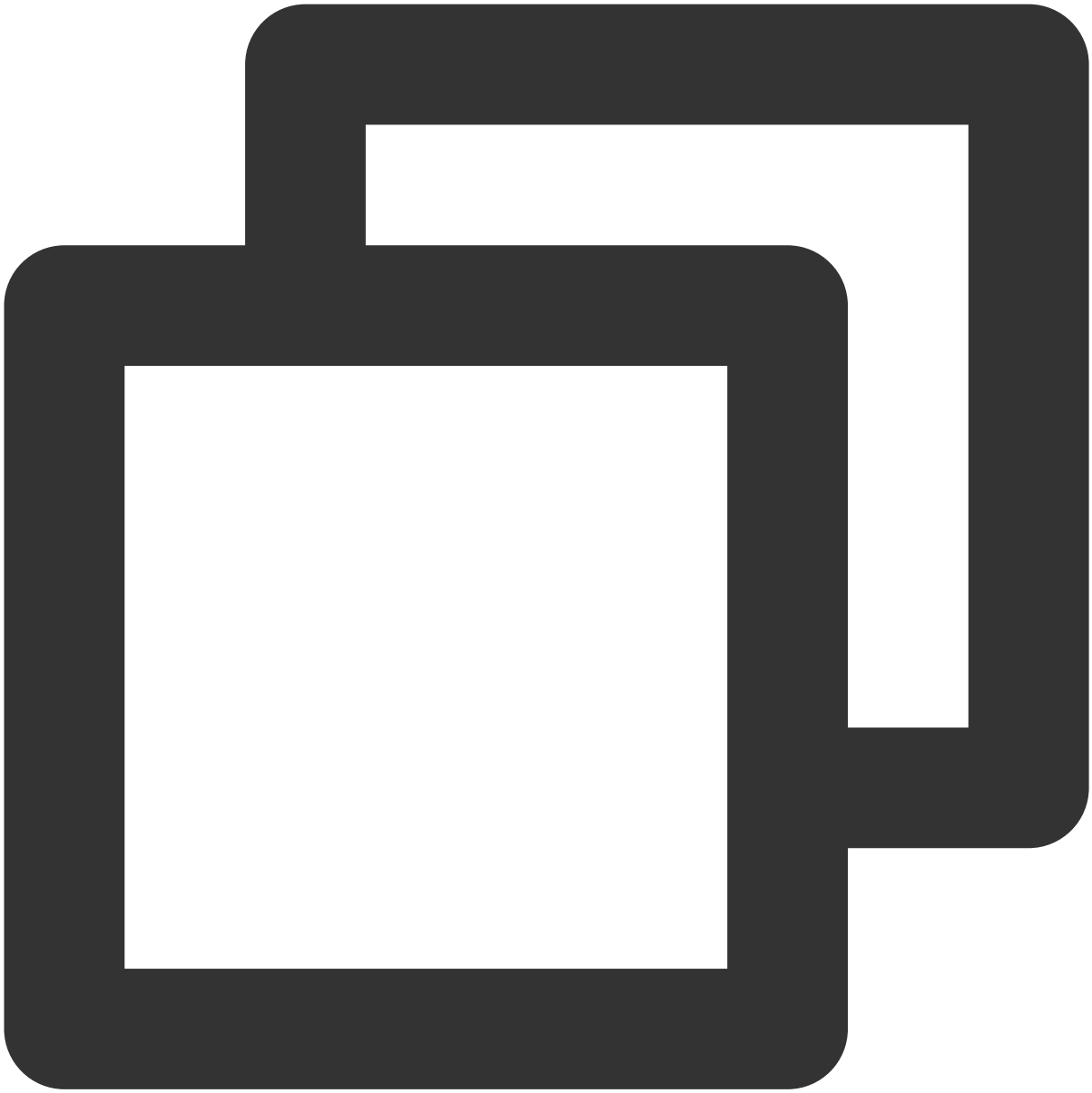

```
<InventoryConfiguration>
    <Id>list1</Id>
    <IsEnabled>true</IsEnabled>
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>1250000000</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::examplebucket-1250000000</Bucket>
            <Prefix>list1</Prefix>
            <Encryption>
                <SSE-COS></SSE-COS>
```

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```
            </Encryption>
        </COSBucketDestination>
    </Destination>
    <Schedule>
        <Frequency>Daily</Frequency>
    </Schedule>
    <Filter>
        <Prefix>myPrefix</Prefix>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>ETag</Field>
        <Field>StorageClass</Field>
        <Field>IsMultipartUploaded</Field>
        <Field>ReplicationStatus</Field>
        <Field>Tag</Field>
        <Field>Crc64</Field>
        <Field>x-cos-meta-*</Field>
    </OptionalFields>
</InventoryConfiguration>
```

The nodes are described as follows:

Node	Parent Node	Description	Type
InventoryConfiguration	None	Inventory configuration	Container
Id	InventoryConfiguration	Inventory ID, corresponding to the request parameter `Id`	Container
IsEnabled	InventoryConfiguration	Whether the inventory is enabled `true` : Yes `false` : No (no inventory will be generated.)	String
IncludedObjectVersions	InventoryConfiguration	Whether object versions are included in the inventory `All` : Yes (the inventory includes all object versions and the additional fields `VersionId` , `IsLatest` , and `DeleteMarker` .) `Current` : No	String
Filter	InventoryConfiguration	Filters objects prefixed with the specified value to analyze.	Container

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And	Filter	When you filter the objects to analyze, if both conditions `Prefix` and `Tag` are required, use the `And` container.	Container
Prefix	And	Prefix of the objects to analyze	String
Tag	And	When you filter the objects to analyze, you can use one or multiple object tags as a filter condition.	Container
Period	Filter	Creation time range of the objects to analyze	Container
StartTime	Period	Creation start time of the objects to analyze. The parameter is a timestamp in seconds, for example, 1568688761.	String
EndTime	Period	Creation end time of the objects to analyze. The parameter is a timestamp in seconds, for example, 1568688762.	String
OptionalFields	InventoryConfiguration	Analysis dimensions to include in the inventory result	Container
Field	OptionalFields	Optional analysis items to include in the inventory result. The optional fields include `Size`, `LastModifiedDate`, `StorageClass`, `ETag`, `IsMultipartUploaded`, `ReplicationStatus`, `Tag`, `Crc64`, and `x-cos-meta-*`. Note that if `Tag` is used as a filter condition, the `Tag` field must be included in the inventory result. In addition, custom headers in the format of `x-cos-meta-*` are supported, for example, `x-cos-meta-testheader`. If such a custom header is entered, the corresponding object metadata will be output in the inventory. If the object does not include the metadata, the field is null.	String
Schedule	InventoryConfiguration	Inventory job cycle	Container
Frequency	Schedule	Frequency of the inventory job, which can	String

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		be daily or weekly	
Destination	InventoryConfiguration	Information about the inventory result destination	Container
COSBucketDestination	Destination	Information about the bucket that stores the exported inventory result	Container
Bucket	COSBucketDestination	Bucket name	String
AccountId	COSBucketDestination	ID of the bucket owner	String
Prefix	COSBucketDestination	Prefix of the inventory result	String
Format	COSBucketDestination	Format of the inventory result. Valid values: `CSV` , `ORC`	String
Encryption	COSBucketDestination	Server-side encryption for the inventory result	Container
SSE-COS	Encryption	Encryption with COS-managed key	Container

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example 1: Obtaining an inventory job with a specified object prefix

Request

The following example queries the `list1` inventory job configuration of the `examplebucket-1250000000` bucket:

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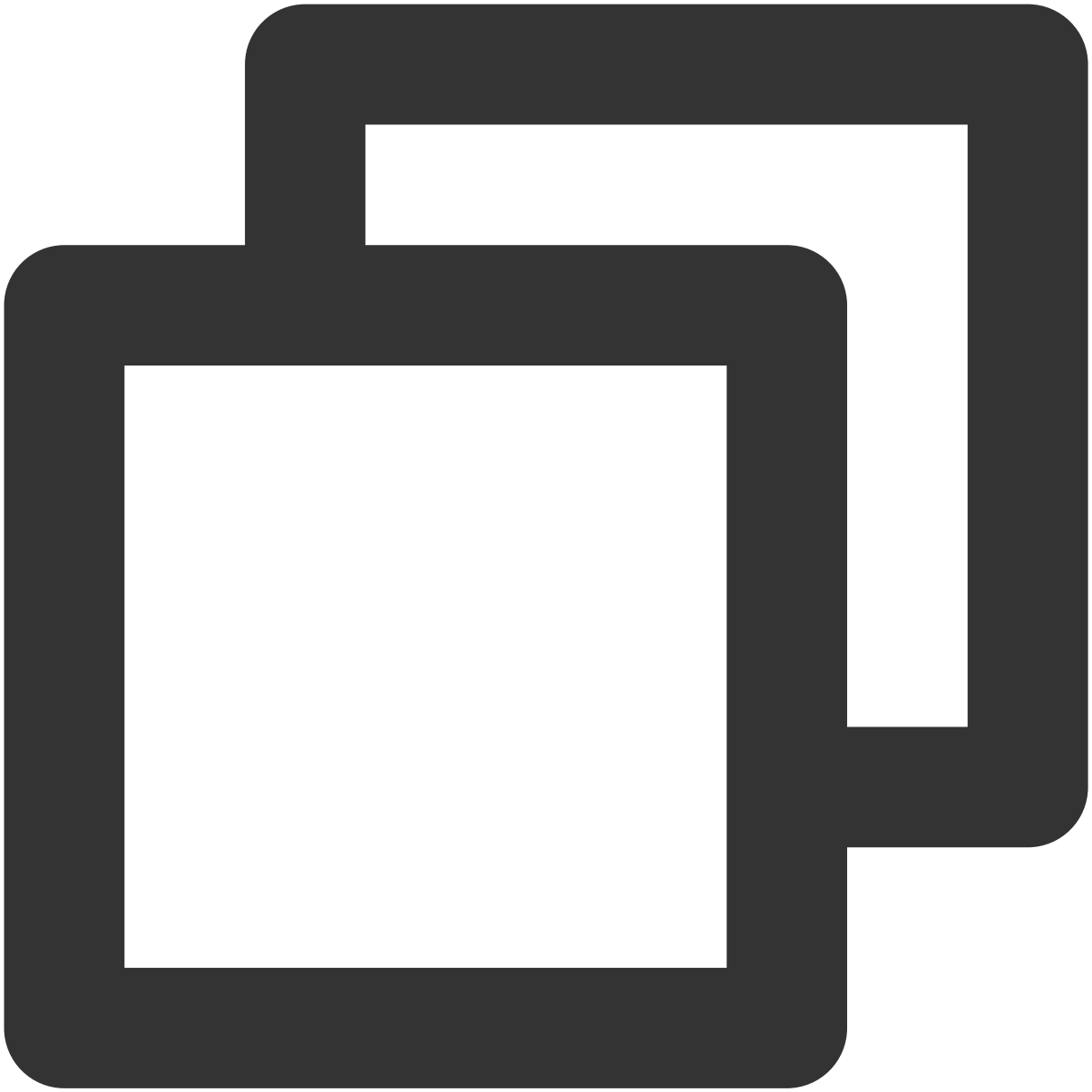

```
GET /?inventory&id=list1 HTTP/1.1
Date: Mon, 28 Aug 2018 02:53:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
```

Response

After the request above is made, COS returns the following response, indicating that the inventory job `list1` is currently enabled in the bucket:

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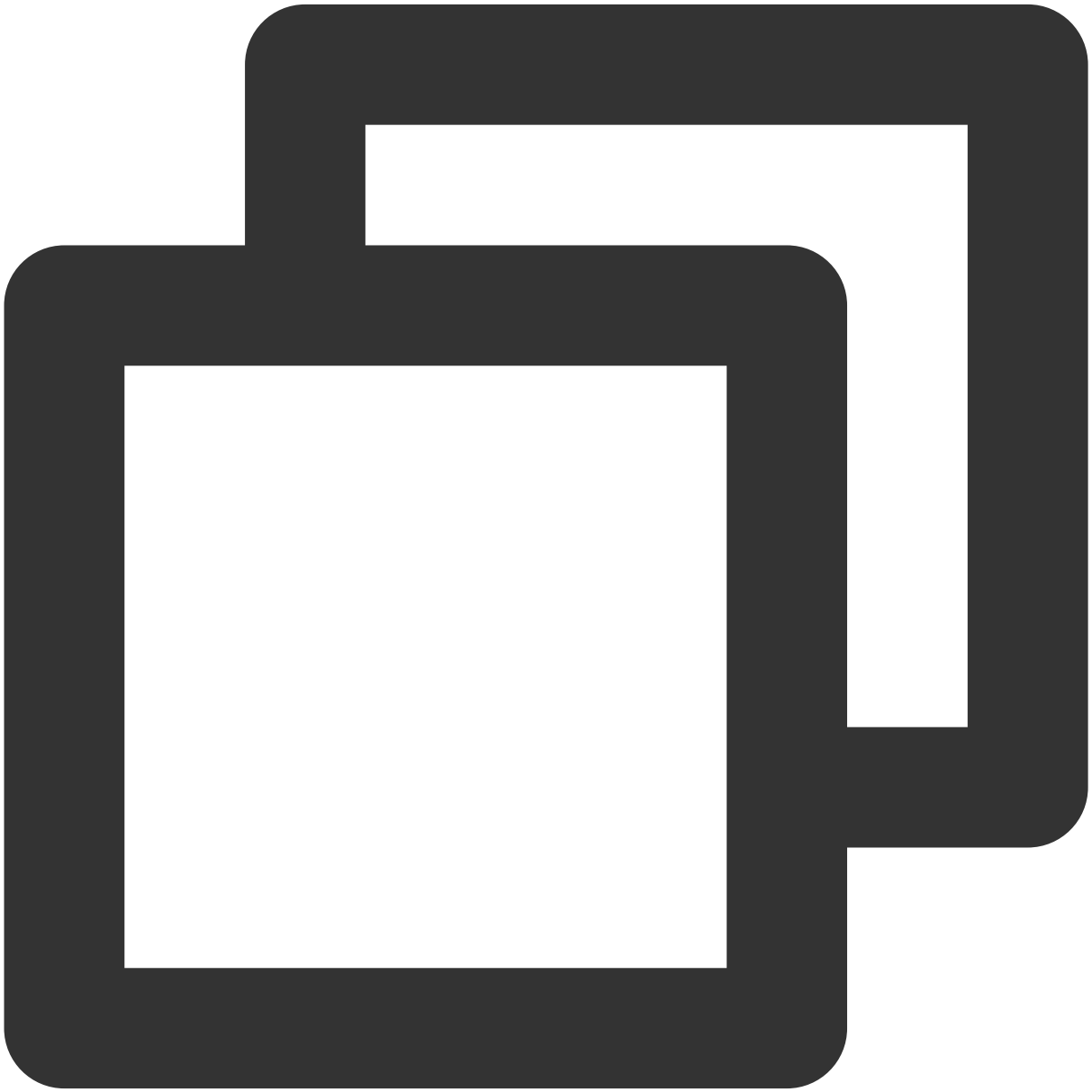
Objects to analyze: objects prefixed with `myPrefix` and all their versions in the `examplebucket-1250000000` bucket
Analysis frequency: daily
Analysis dimensions: `Size`, `LastModifiedDate`, `StorageClass`, `ETag`, `IsMultipartUploaded`, and `ReplicationStatus`
Analysis result: to be stored in the `examplebucket-1250000000` bucket as a CSV file, which is prefixed with `list1` and encrypted with SSE-COS.



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 331
Date: Mon, 28 Aug 2018 02:53:39 GMT
Server: tencent-cos
x-cos-request-id: NTlhMzg1ZWVfMjQ4OGY3MGFfMWE1NF84Y2M
<?xml version = "1.0" encoding = "UTF-8">
<InventoryConfiguration xmlns = "http://....">
    <Id>list1</Id>
    <IsEnabled>true</IsEnabled>
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>1250000000</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::examplebucket-1250000000</Bucket>
            <Prefix>list1</Prefix>
            <Encryption>
                <SSE-COS></SSE-COS>
            </Encryption>
        </COSBucketDestination>
    </Destination>
    <Schedule>
        <Frequency>Daily</Frequency>
    </Schedule>
    <Filter>
        <Prefix>myPrefix</Prefix>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>ETag</Field>
        <Field>StorageClass</Field>
        <Field>IsMultipartUploaded</Field>
        <Field>ReplicationStatus</Field>
    </OptionalFields>
</InventoryConfiguration>
```

Example 2: Obtaining an inventory job with a specified object prefix and object tag

Request

The following example queries the `list2` inventory job configuration of the `examplebucket-1250000000` bucket:

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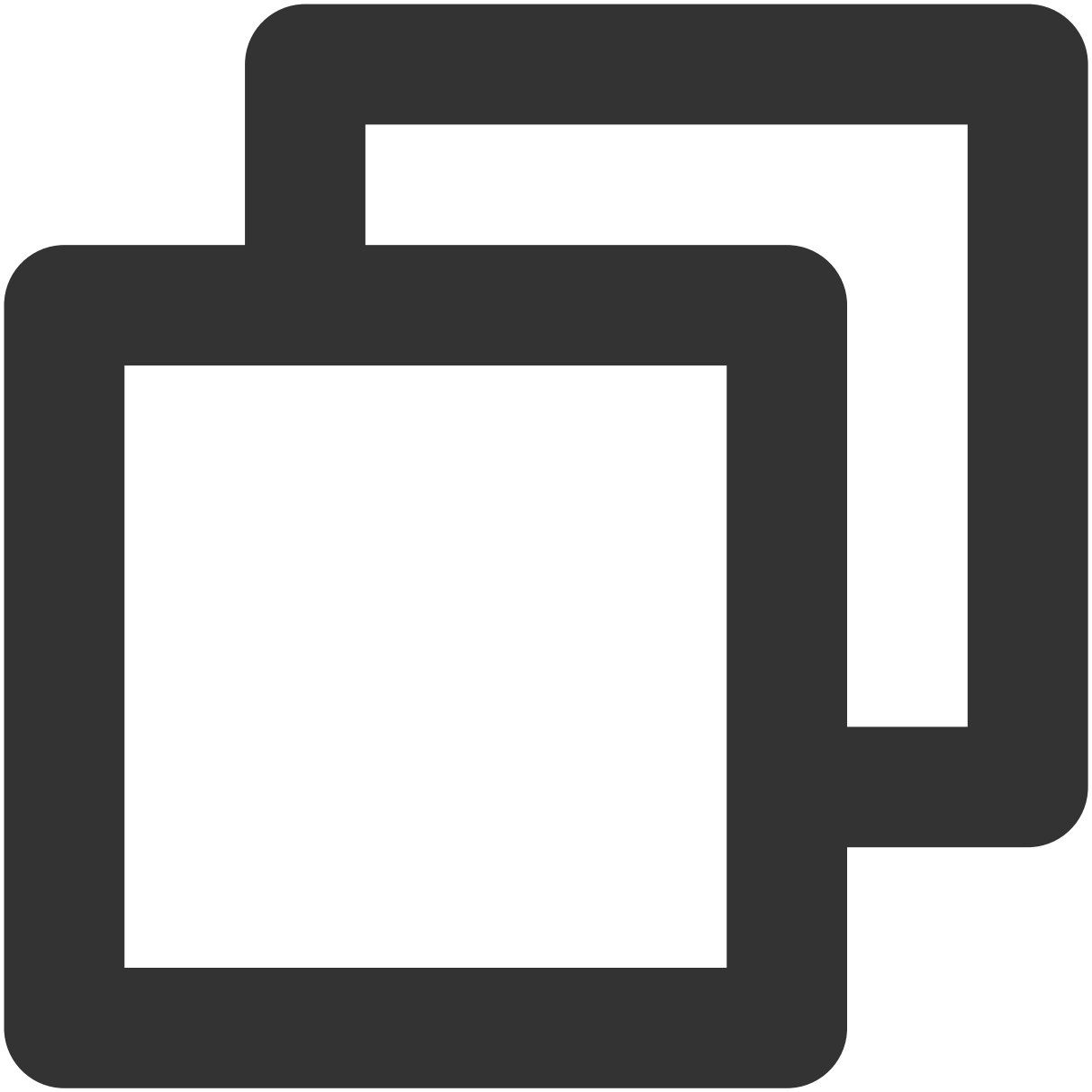

```
GET /?inventory&id=list2 HTTP/1.1
Date: Mon, 28 Aug 2018 02:53:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com
```

Response

After the request above is made, COS returns the following response indicating that the inventory job list2 is currently enabled in the bucket.

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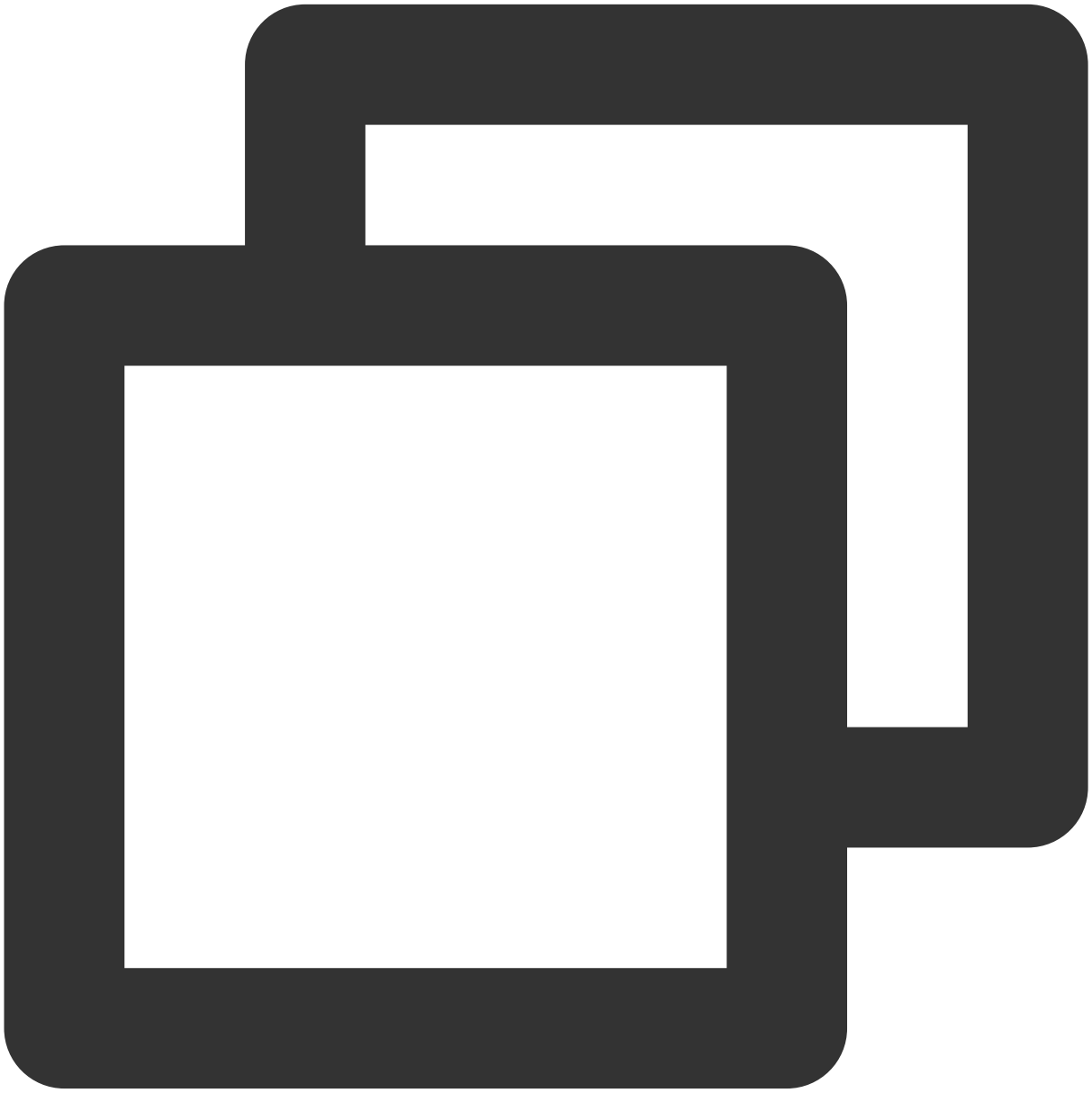
Objects to analyze: objects prefixed with `myPrefix` and tagged with `{age:18}` and all their versions in the `examplebucket-1250000000` bucket

Analysis frequency: daily

Analysis dimensions: `Size` , `LastModifiedDate` , `StorageClass` , `ETag` , and `Tag`

The result will be stored in the `inventorybucket-1250000000` bucket as a CSV file.



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 331
Date: Mon, 28 Aug 2018 02:53:39 GMT
```

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```
Server: tencent-cos
x-cos-request-id: NTlhMzg1ZWVfMjQ4OGY3MGFfMWE1NF84Y2M
<?xml version = "1.0" encoding = "UTF-8">
<InventoryConfiguration xmlns = "http://....">
    <Id>list2</Id>
    <IsEnabled>true</IsEnabled>
    <Destination>
        <COSBucketDestination>
            <Format>CSV</Format>
            <AccountId>1250000000</AccountId>
            <Bucket>qcs::cos:ap-guangzhou::inventorybucket-1250000000</Bucket>
        </COSBucketDestination>
    </Destination>
    <Schedule>
        <Frequency>Daily</Frequency>
    </Schedule>
    <Filter>
        <And>
            <Prefix>myPrefix</Prefix>
            <Tag>
                <Key>age</Key>
                <Value>18</Value>
            </Tag>
        </And>
    </Filter>
    <IncludedObjectVersions>All</IncludedObjectVersions>
    <OptionalFields>
        <Field>Size</Field>
        <Field>LastModifiedDate</Field>
        <Field>StorageClass</Field>
        <Field>ETag</Field>
        <Field>Tag</Field>
    </OptionalFields>
</InventoryConfiguration>
```

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List Bucket Inventory Configurations

Last updated：2024-03-28 18:08:33

Feature Overview

This API is used to query all inventory jobs configured for a bucket. You can configure up to 1,000 inventory jobs for a bucket.
This request supports returning the results in multiple responses. Each response can contain up to 100 inventory jobs.
The value of `IsTruncated` in the request is described as follows:
If the value of `IsTruncated` is `false`, all inventory jobs of the bucket have been listed.
If the value of `IsTruncated` is `true` and `NextContinuationToken` carries a value, you can pass this value to `continuation-token` in the next request to obtain the remaining inventory jobs from the next response.
For more information, see Inventory Overview.

Note:

To call this API, make sure that you have the required permission for bucket inventory jobs. The bucket owner has the permission by default. If you don't have it, you must request it from the bucket owner first.

Request

Sample request

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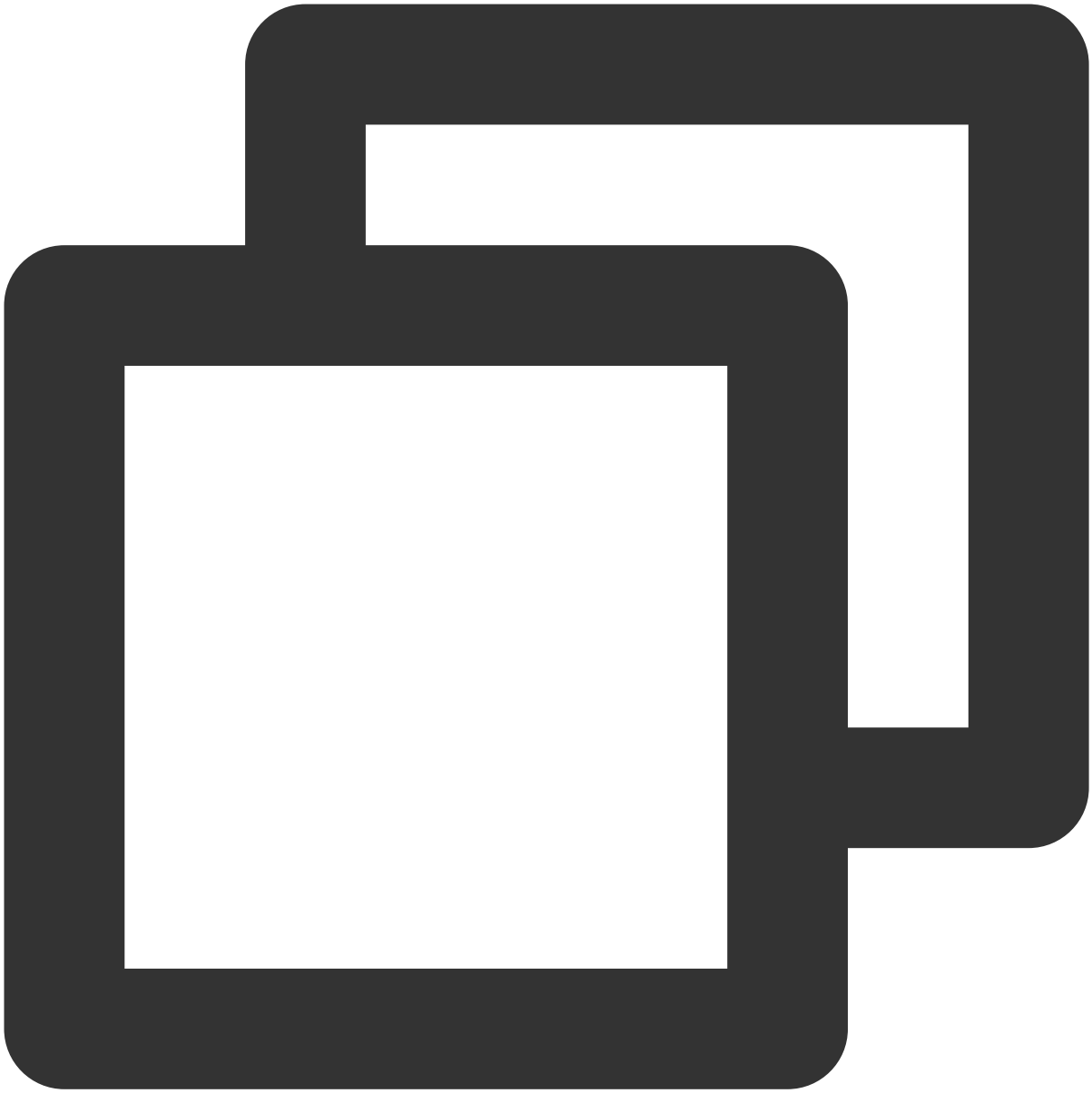

```
GET /?inventory HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

The request parameter is as follows:

Parameter	Description	Type	Required
continuation-token	If the value of `IsTruncated` is `true` in the last COS response and `NextContinuationToken` carries a value, you can pass this value to `continuation-token` to obtain the inventory jobs in the response. Default value: `None`	String	No

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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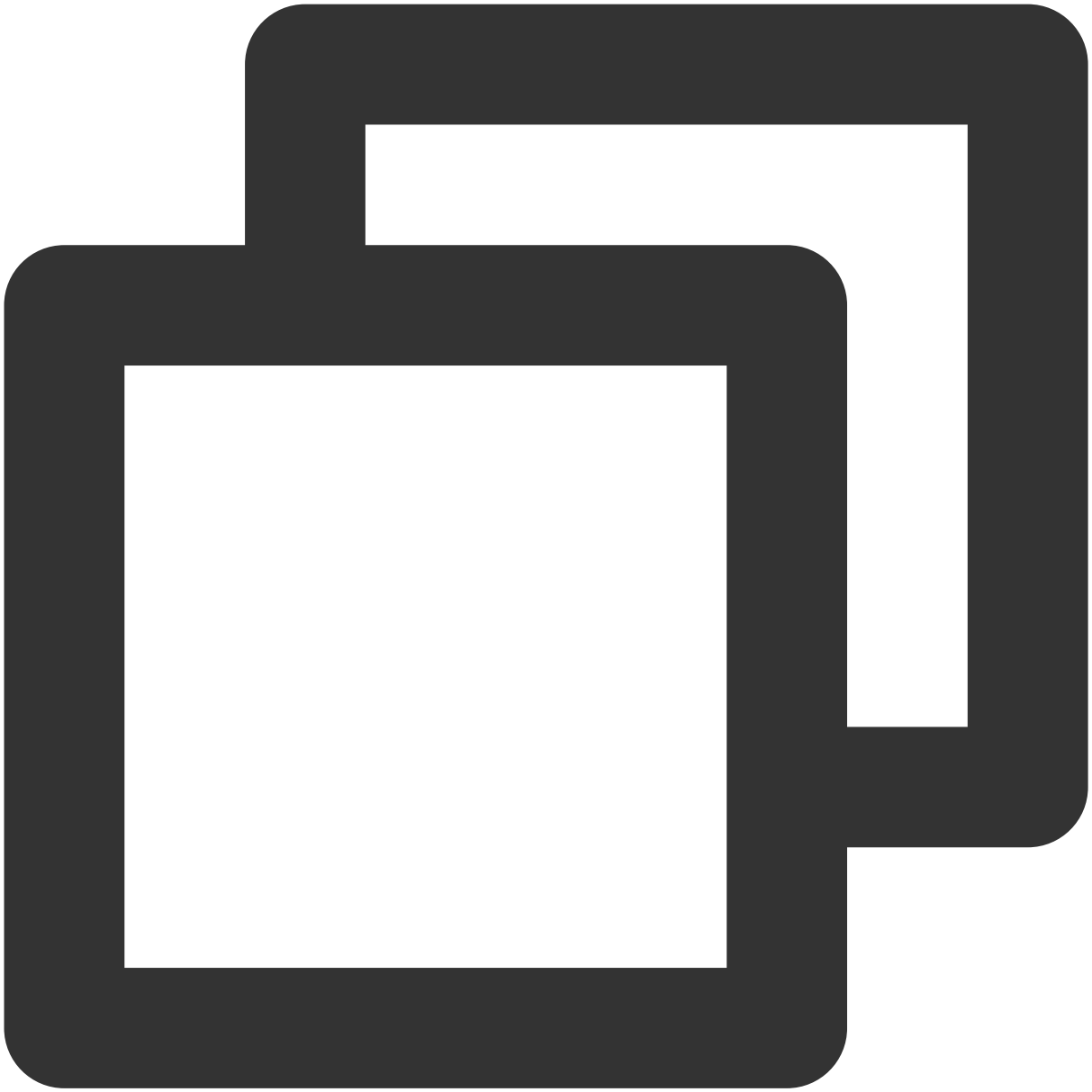

```
<ListInventoryConfigurationResult>
    <InventoryConfiguration>
        <Id>list1</Id>
        <IsEnabled>True</IsEnabled>
        <Destination>
            <COSBucketDestination>
                <Format>CSV</Format>
                <AccountId>1250000000</AccountId>
                <Bucket>qcs::cos:ap-beijing::examplebucket-1250000000</Bucket>
                <Prefix>list1</Prefix>
                <SSE-COS></SSE-COS>
```

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```
            </COSBucketDestination>
        </Destination>
        <Schedule>
            <Frequency>Daily</Frequency>
        </Schedule>
        <Filter>
            <Prefix>myPrefix</Prefix>
        </Filter>
        <IncludedObjectVersions>All</IncludedObjectVersions>
        <OptionalFields>
            <Field>Size</Field>
            <Field>LastModifiedDate</Field>
            <Field>ETag</Field>
            <Field>StorageClass</Field>
            <Field>IsMultipartUpload</Field>
            <Field>ReplicationStatus</Field>
        </OptionalFields>
    </InventoryConfiguration>
    <InventoryConfiguration>
        <Id>list2</Id>
        <IsEnabled>True</IsEnabled>
        <Destination>
            <COSBucketDestination>
                <Format>CSV</Format>
                <AccountId>1250000000</AccountId>
                <Bucket>qcs::cos:ap-beijing::examplebucket-1250000000</Bucket>
                <Prefix>list2</Prefix>
                <SSE-COS></SSE-COS>
            </COSBucketDestination>
        </Destination>
        <Schedule>
            <Frequency>Weekly</Frequency>
        </Schedule>
        <Filter>
            <Prefix>myPrefix2</Prefix>
        </Filter>
        <IncludedObjectVersions>All</IncludedObjectVersions>
        <OptionalFields>
            <Field>Size</Field>
            <Field>LastModifiedDate</Field>
            <Field>ETag</Field>
            <Field>StorageClass</Field>
        </OptionalFields>
    </InventoryConfiguration>
    <IsTruncated>false</IsTruncated>
    ------If ContinuationToken was provided in the request---
    <ContinuationToken>...</ContinuationToken>
```

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```
    <IsTruncated>true</IsTruncated>
    <NextContinuationToken>1ueSDFASDF1Tr/XDAFdadEADadf2J/wm36Hy4vbOwM=</NextContinu
</ListInventoryConfigurationResult>
```

The nodes are described as follows:

Node Name	Parent Node	Description	Type
ListInventoryConfigurationResult	None	Information about all inventory jobs of the bucket	Container
InventoryConfiguration	ListInventoryConfigurationResult	Detailed configuration of an inventory job. For the XML structure, see GET Bucket inventory.	Container
IsTruncated	ListInventoryConfigurationResult	Whether all inventory jobs have been listed. If yes, the value is `false`. Otherwise, the value is `true`.	Boolean
ContinuationToken	ListInventoryConfigurationResult	Identifier of the current response. This parameter corresponds to the `continuation-token` request parameter.	String
NextContinuationToken	ListInventoryConfigurationResult	Identifier of the next response. You can pass the value of this parameter to `continuation-token` and initiate a GET request to obtain the inventory jobs from the next response.	String

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Request

The following example queries the inventory jobs of the `examplebucket-1250000000` bucket:

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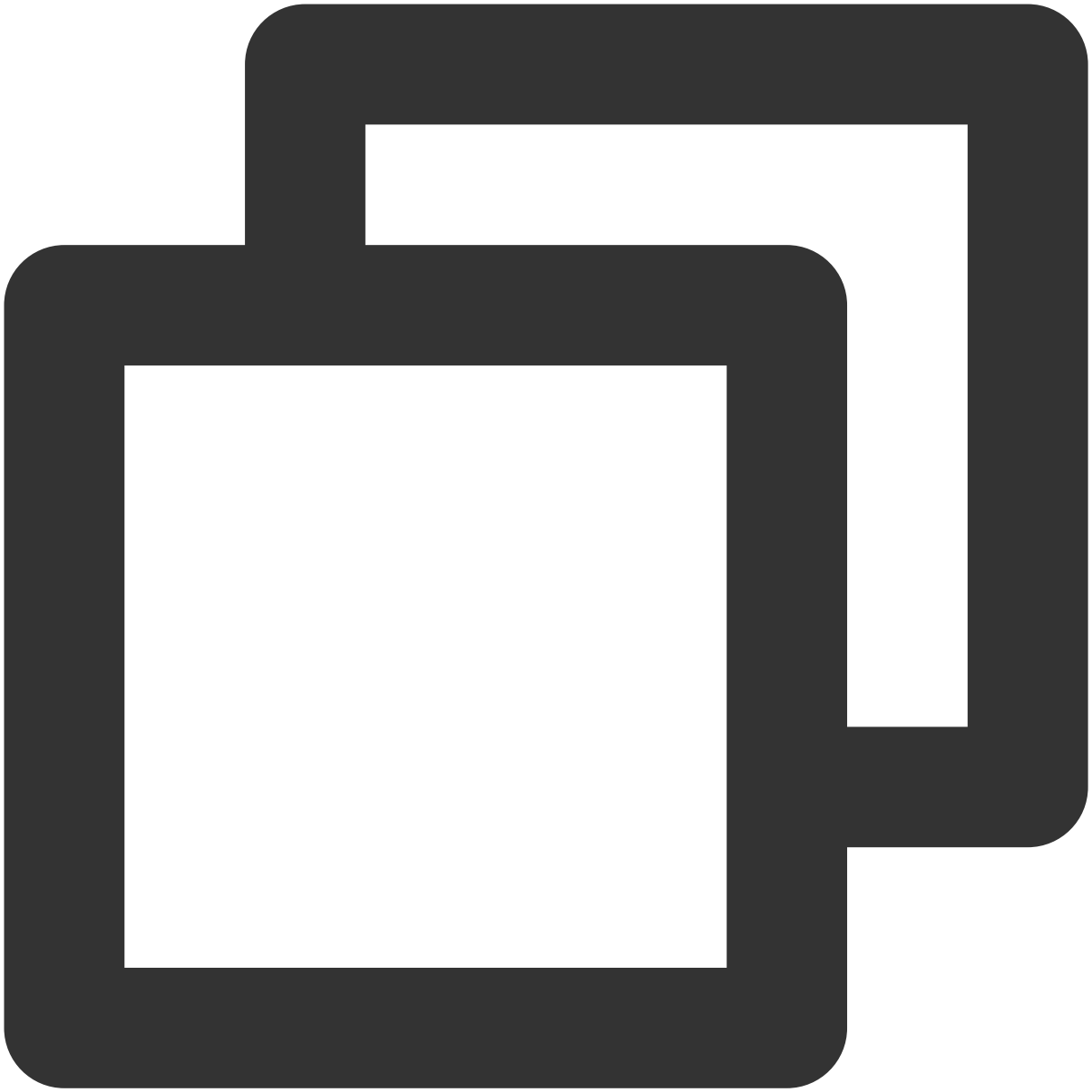

```
GET /?inventory HTTP/1.1
Date: Mon, 28 Aug 2018 02:53:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR98JM&q-si
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

Response

After the request above is made, COS returns the following response, indicating that the inventory jobs `list1` and `list2` are set for the bucket.

Inventory job `list1`

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Objects to analyze: objects prefixed with `myPrefix` and all their versions in the `examplebucket-1250000000` bucket
Analysis frequency: daily
Analysis dimensions: `Size`, `LastModifiedDate`, `StorageClass`, `ETag`, `IsMultipartUploaded`, and `ReplicationStatus`
Analysis result: to be stored in the `inventorybucket-1250000000` bucket as a CSV file, which is prefixed with `list1` and encrypted with SSE-COS.

Inventory job `list2`

Objects to analyze: objects prefixed with `myPrefix2` and labeled `{age:18}` and all their versions in the `examplebucket-1250000000` bucket
Analysis frequency: once a week
Analysis dimensions: `Size`, `LastModifiedDate`, `StorageClass`, `ETag` and `Tag`.
The result will be stored in the `inventorybucket-1250000000` bucket as a CSV file.

Assume that 100 inventory jobs are listed in this response. If the value of `IsTruncated` is `true`, COS will return `NextContinuationToken`, whose value can be passed to `continuation-token` for a GET request to obtain the inventory jobs from the next response.

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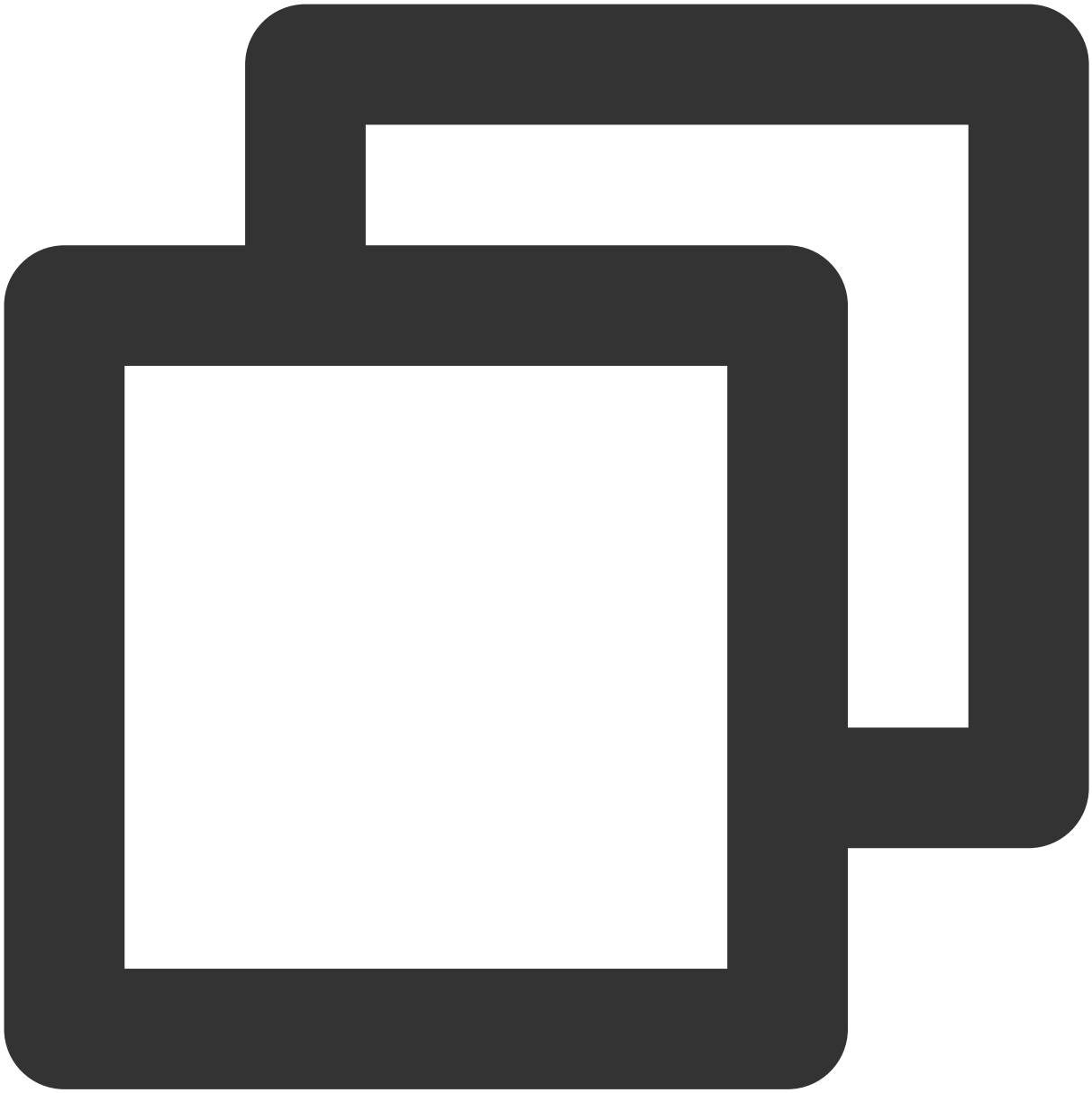

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 331
Date: Mon, 28 Aug 2018 02:53:39 GMT
Server: tencent-cos
x-cos-request-id: NTlhMzg1ZWVfMjQ4OGY3MGFfMWE1NF8****
<?xml version = "1.0" encoding = "UTF-8">
<ListInventoryConfigurationResult xmlns = "http://....">
    <InventoryConfiguration>
        <Id>list1</Id>
        <IsEnabled>True</IsEnabled>
```

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```
        <Destination>
            <COSBucketDestination>
                <Format>CSV</Format>
                <AccountId>1250000000</AccountId>
                <Bucket>qcs::cos:ap-beijing::inventorybucket-1250000000</Bucket>
                <Prefix>list1</Prefix>
                <SSE-COS></SSE-COS>
            </COSBucketDestination>
        </Destination>
        <Schedule>
            <Frequency>Daily</Frequency>
        </Schedule>
        <Filter>
            <Prefix>myPrefix</Prefix>
        </Filter>
        <IncludedObjectVersions>All</IncludedObjectVersions>
        <OptionalFields>
            <Field>Size</Field>
            <Field>LastModifiedDate</Field>
            <Field>ETag</Field>
            <Field>StorageClass</Field>
            <Field>IsMultipartUpload</Field>
            <Field>ReplicationStatus</Field>
        </OptionalFields>
    </InventoryConfiguration>
    <InventoryConfiguration>
        <Id>list2</Id>
        <IsEnabled>True</IsEnabled>
        <Destination>
            <COSBucketDestination>
                <Format>CSV</Format>
                <AccountId>1250000000</AccountId>
                <Bucket>qcs::cos:ap-beijing::inventorybucket-1250000000</Bucket>
            </COSBucketDestination>
        </Destination>
        <Schedule>
            <Frequency>Weekly</Frequency>
        </Schedule>
        <Filter>
            <And>
                <Prefix>myPrefix2</Prefix>
                <Tag>
                    <Key>age</Key>
                    <Value>18</Value>
                </Tag>
            </And>
        </Filter>
```

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```
        <IncludedObjectVersions>All</IncludedObjectVersions>
        <OptionalFields>
            <Field>Size</Field>
            <Field>LastModifiedDate</Field>
            <Field>StorageClass</Field>
            <Field>ETag</Field>
            <Field>Tag</Field>
        </OptionalFields>
    </InventoryConfiguration>
    <IsTruncated>false</IsTruncated>
    ------If ContinuationToken was provided in the request---
    <ContinuationToken>...</ContinuationToken>
    <IsTruncated>true</IsTruncated>
    <NextContinuationToken>1ueSDFASDF1Tr/XDAFdadEADadf2J/wm36Hy4vbOwM=</NextContinu
</ListInventoryConfigurationResult>
```

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DELETE Bucket Inventory

Last updated：2024-03-28 18:08:32

Overview

This API is used to delete an inventory job from a bucket with the specified job ID.

For more information, please see Inventory Overview.

Caution:

To call this API, ensure that you have the necessary permission on the bucket inventory job.

The bucket owner has such permission by default. If you do not have the permission, you can request it from the bucket owner.

Request

Sample request

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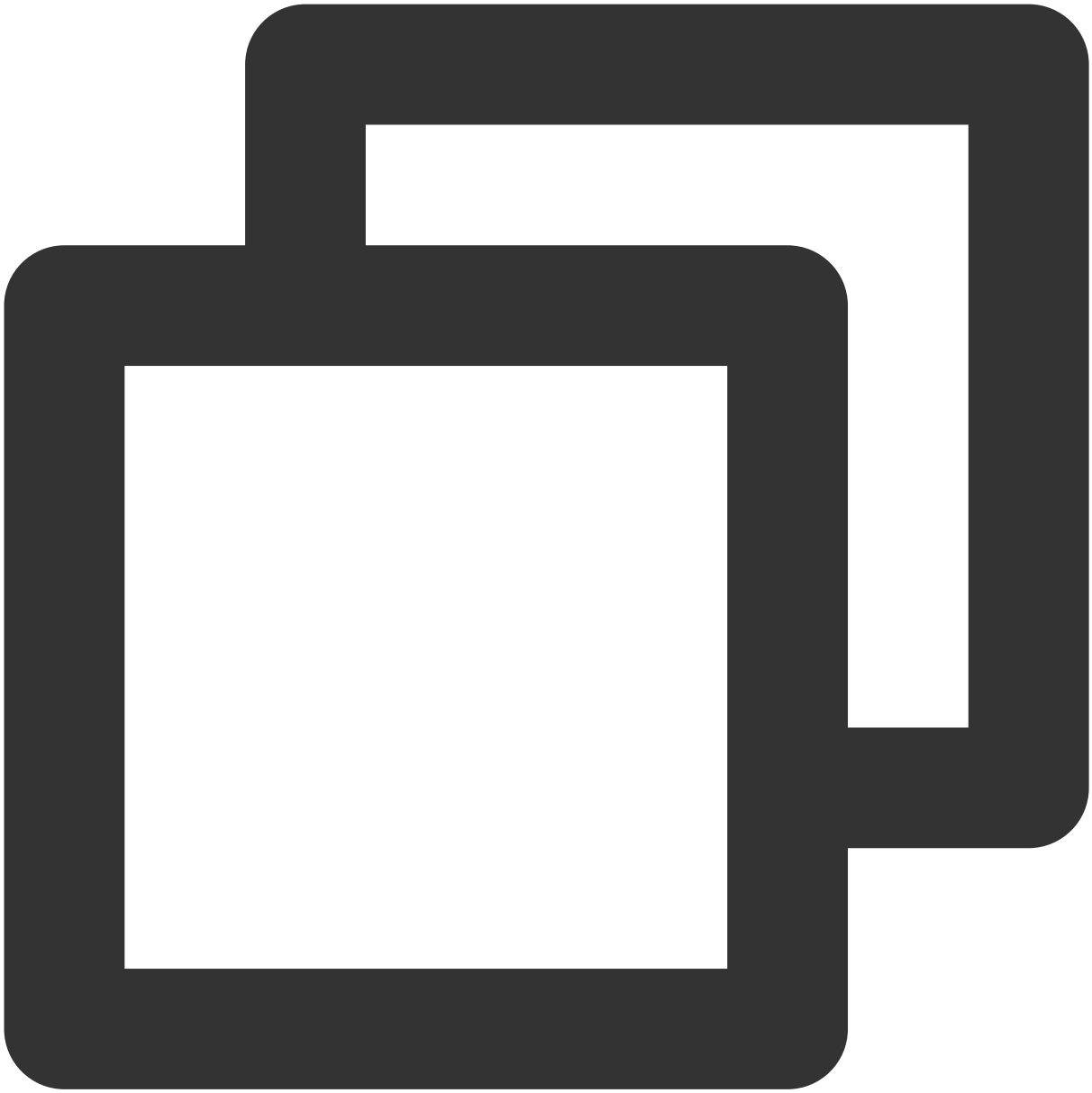

```
DELETE /?inventory&id=inventory-configuration-id HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic

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Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request parameters

To call `DELETE Bucket inventory`, specify the following parameter:

Parameter	Description	Type	Required
Id	ID of the inventory job. Default value: `None` Letters, digits, hyphens (-), underscores (_), and dots (.) are supported.	String	Yes

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

The following example deletes the inventory job `list1` from the `examplebucket-1250000000` bucket:

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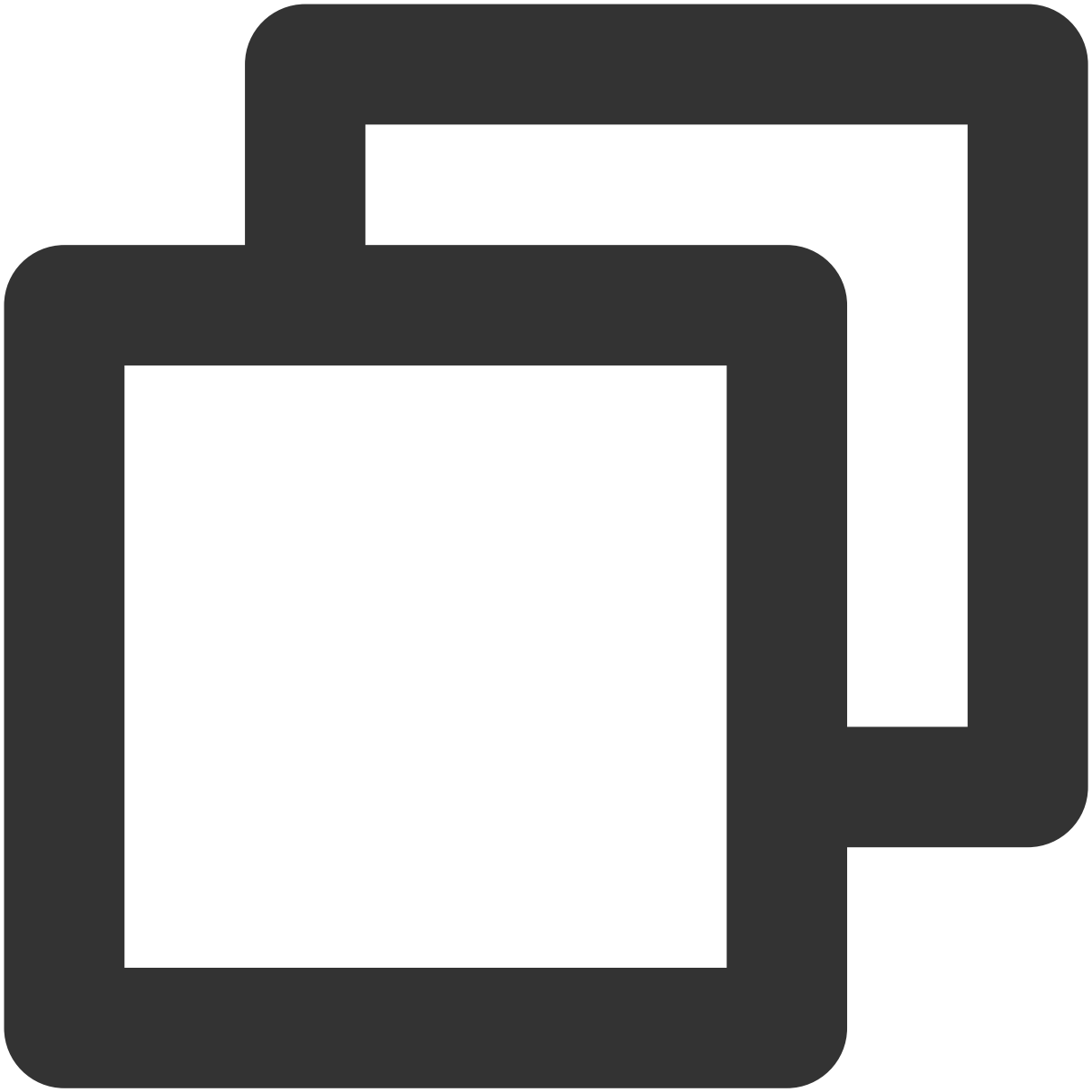

```
DELETE /?inventory&id=list1 HTTP/1.1
Date: Mon, 28 Aug 2018 02:53:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

Response

After the request above is made, COS returns “204 No Content”, indicating that the inventory job `list1` has been successfully deleted from the bucket.

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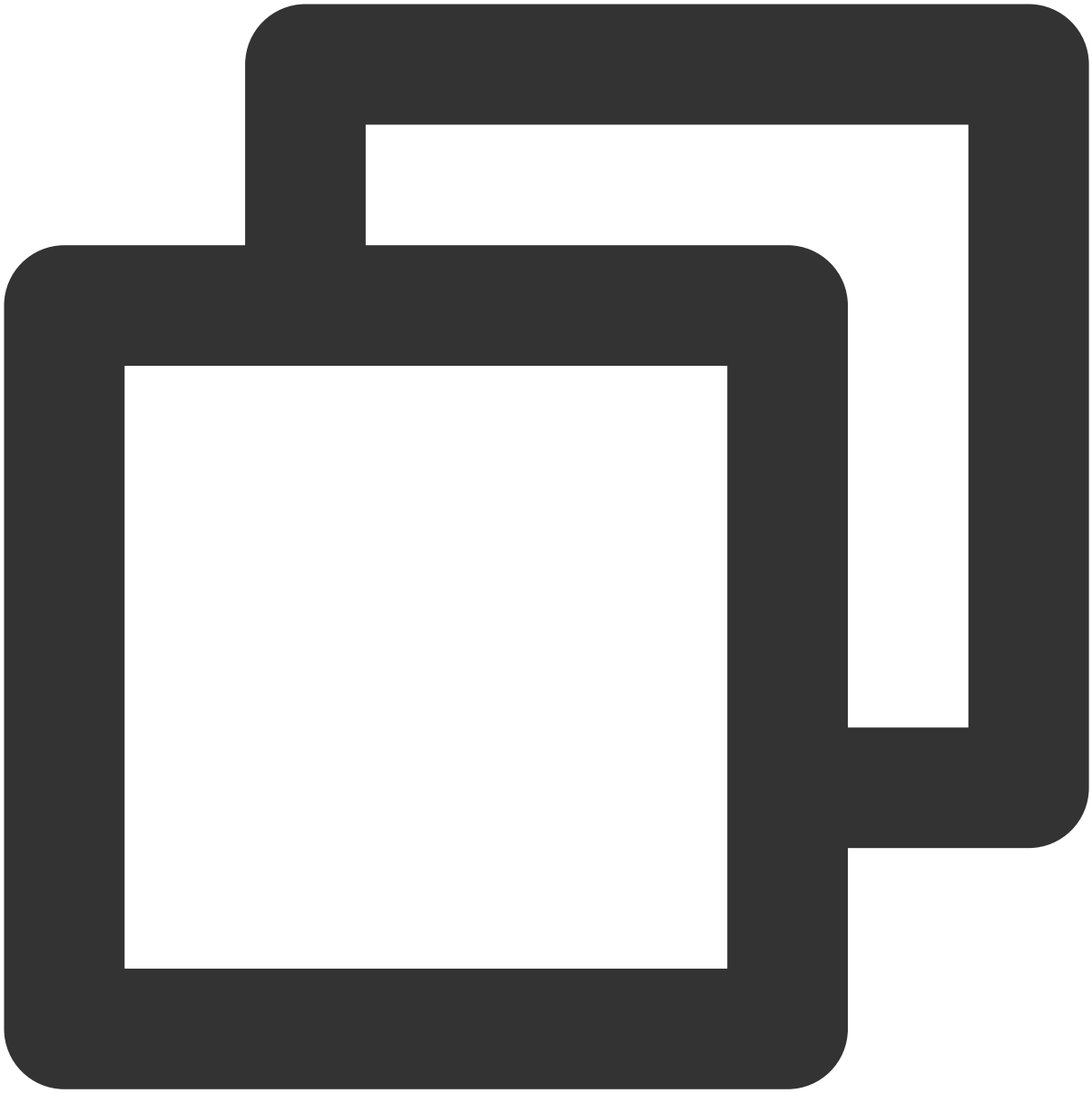

```
HTTP/1.1 204 No Content
Server: tencent-cos
Date: Mon, 28 Aug 2018 02:53:40 GMT
x-cos-id-2:0dfafa/DAPDIFdafdsfDdfSFFfdfKKJdafasiuKJK2
x-cos-request-id: NTlhM2I3M2JfMjQ4OGY3MGFfMWE1NF84****
```

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Versioning
PUT Bucket versioning

Last updated：2024-03-28 18:08:33

Overview

This API is used to enable or suspend versioning for a bucket.

Notes

If you have never enabled versioning for the bucket, GET Bucket versioning will not return a versioning state value.

1. Once enabled, versioning can only be suspended but cannot be disabled.
2. Set the versioning state value to Enabled or Suspended to enable or suspend versioning, respectively.
3. To set versioning for a bucket, you need to have the permission to write to the bucket.

Request

Sample request

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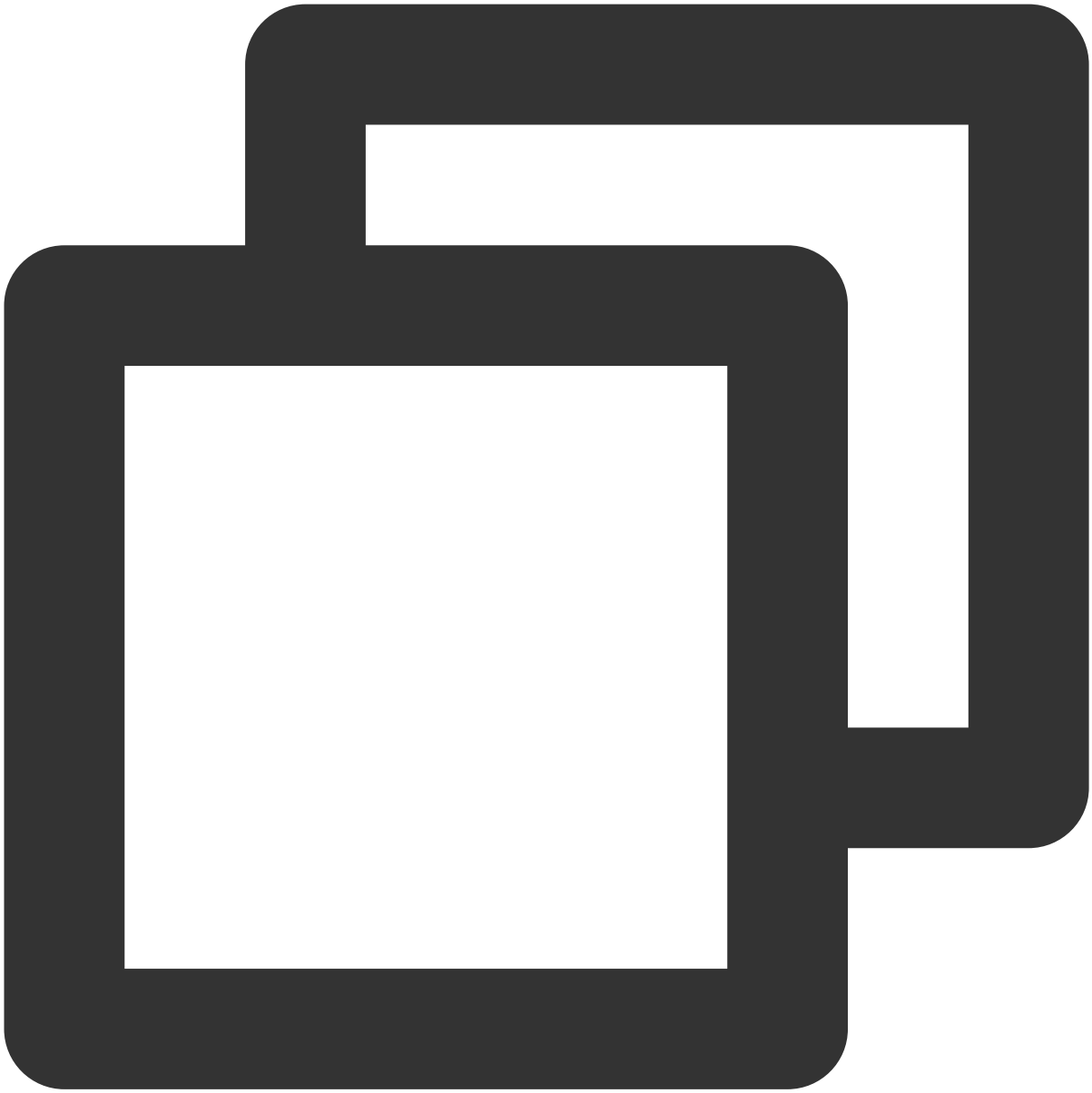

```
PUT /?versioning HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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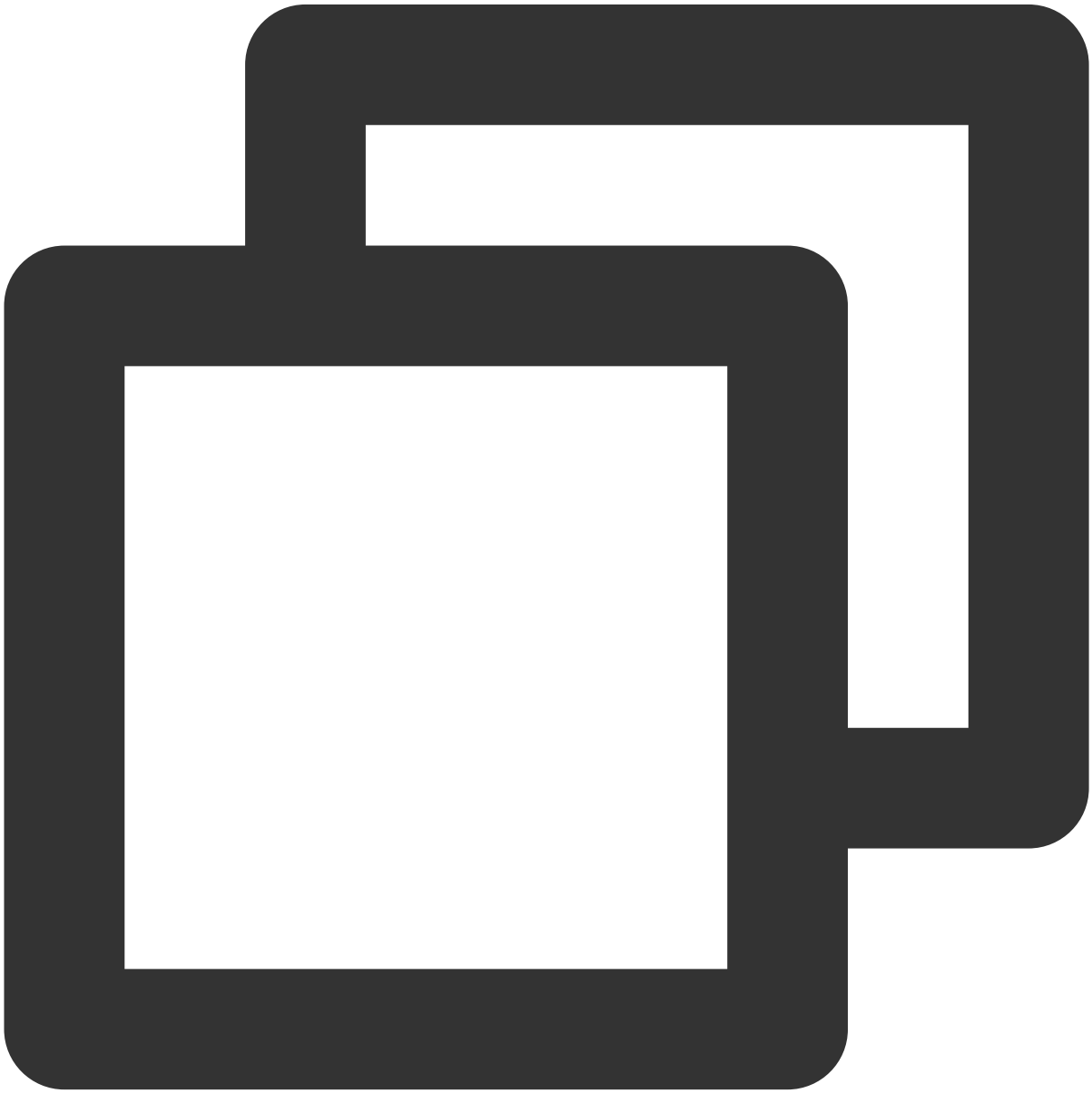
and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body



```
<VersioningConfiguration>
```

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```
  <Status></Status>
</VersioningConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
VersioningConfiguration	None	Describes the detailed information on versioning	Container
Status	VersioningConfiguration	Whether to enable versioning. Valid values: `Suspended` , `Enabled`	Enum

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Request

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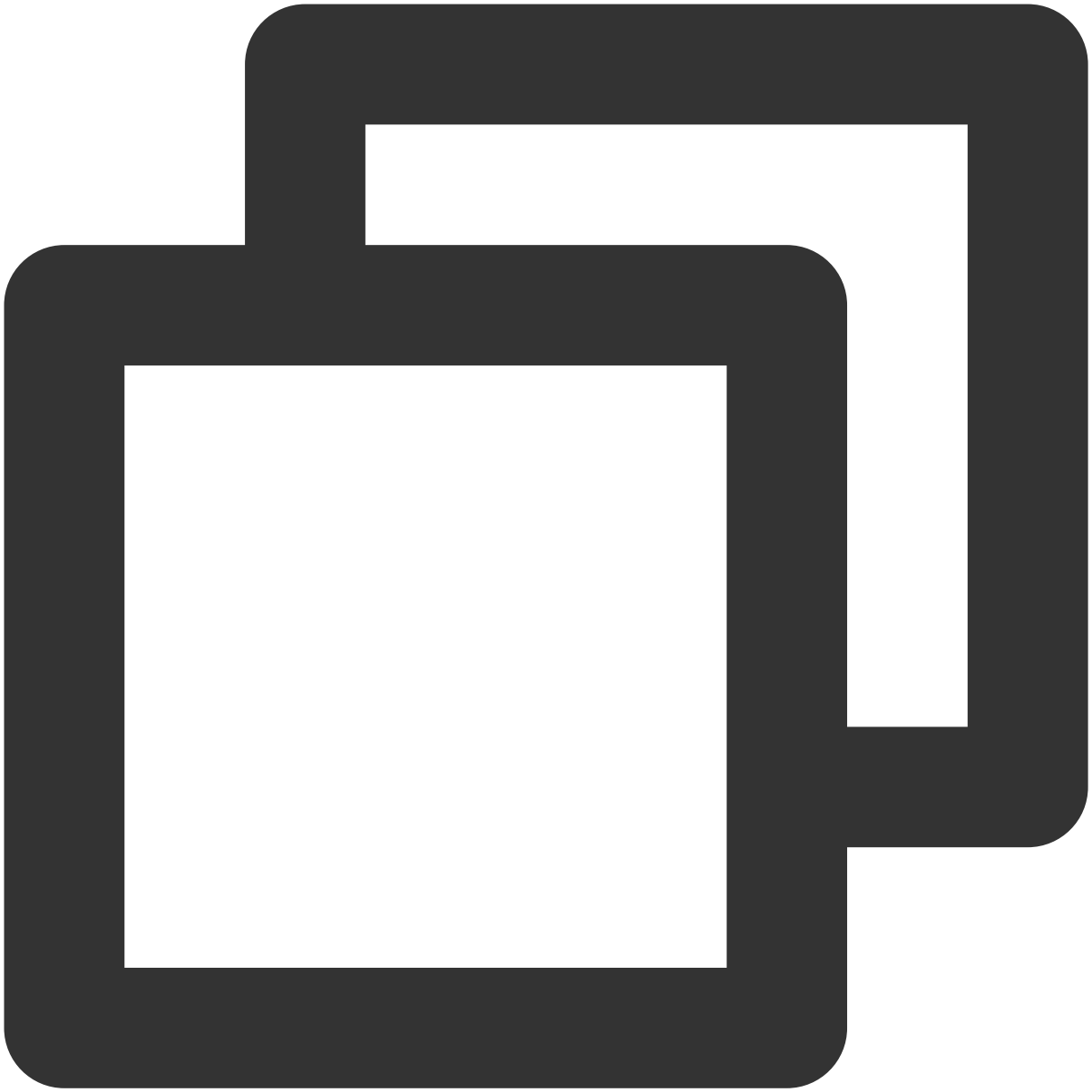

```
PUT /?versioning HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
User-Agent: python-requests/2.12.4
Content-Type: application/xml
Authorization: q-sign-algorithm=sha1&q-ak=AKID15IsskiBQKTZbAo6WhgcBqVls9Sm****&q-si
Content-Length: 83

<VersioningConfiguration>
```

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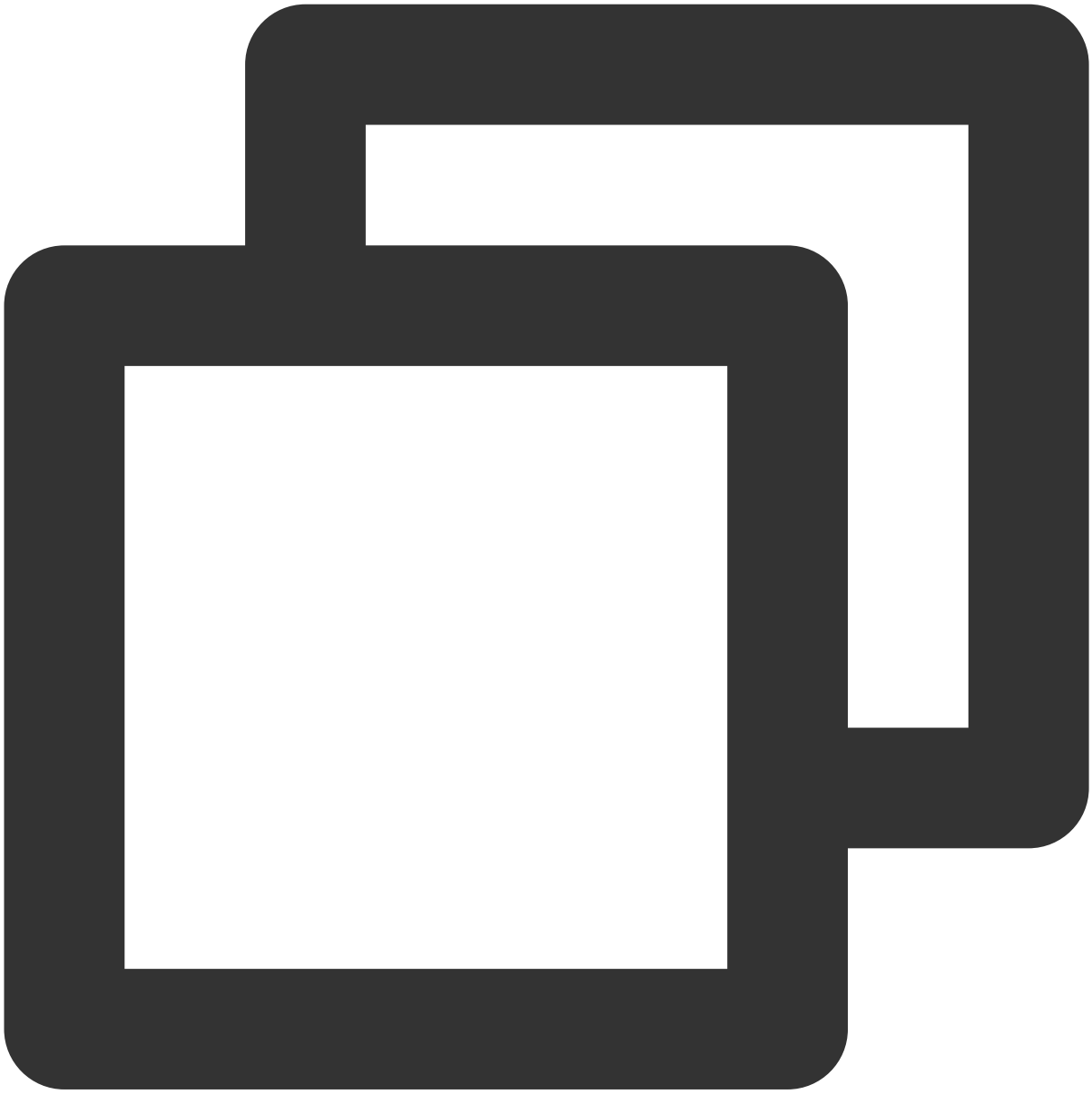
```
    <Status>Enabled</Status>
</VersioningConfiguration>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Wed, 23 Aug 2017 08:14:53 GMT
Server: tencent-cos
```

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```
x-cos-request-id: NTk5ZDM5N2RfMjNiMjM1MGFfMmRiX2Y0****
```

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GET Bucket versioning

Last updated：2024-03-28 18:08:33

Overview

This API is used to query the lifecycle configuration set for a bucket.

Notes

1. To query the versioning status of a bucket, you need to have permission to read the bucket.
2. There are three versioning states: not enabled, enabled, or suspended.

If you have never enabled or suspended versioning for the bucket, the response is:

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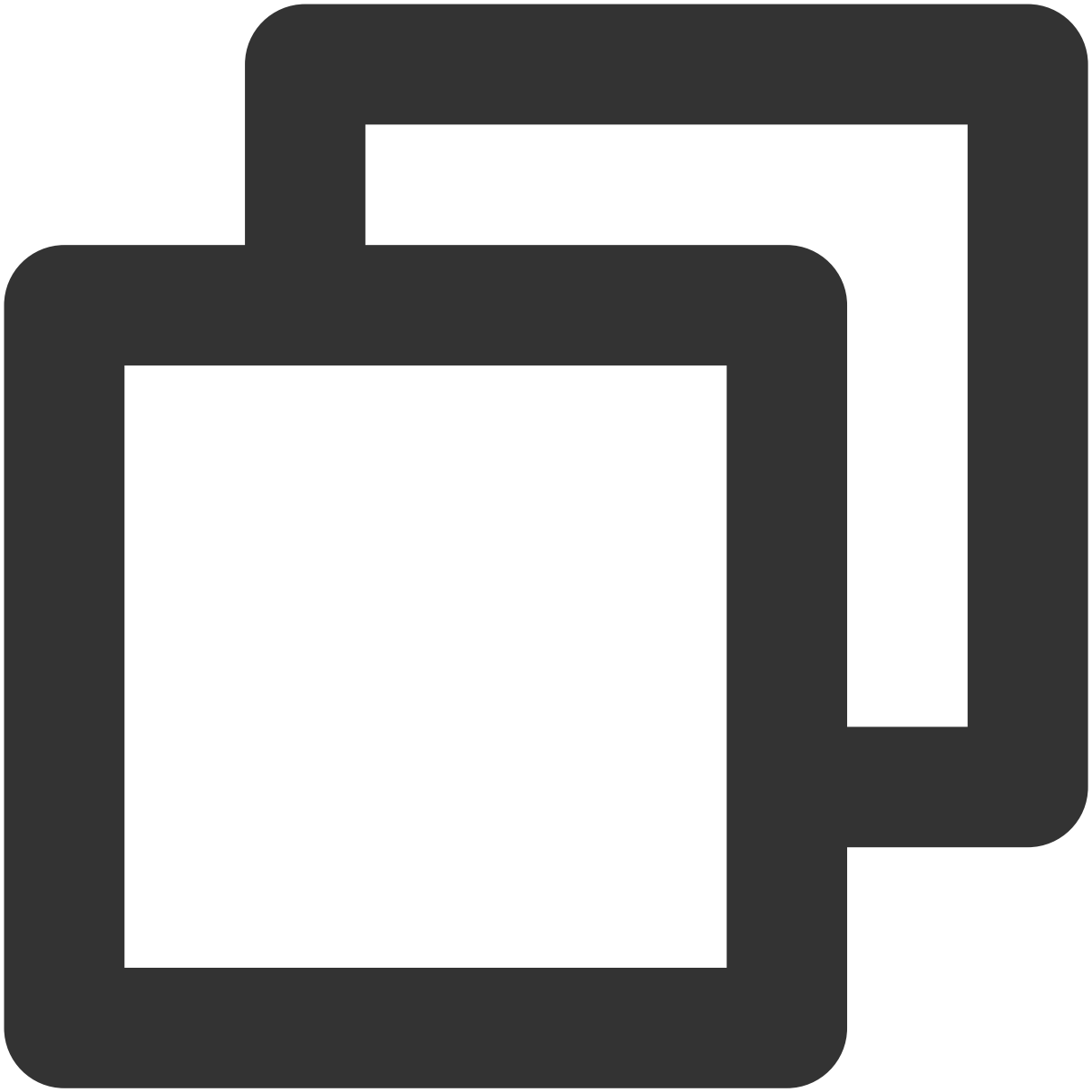

```
<VersioningConfiguration/>
```

If you have enabled versioning for the bucket, the response is:

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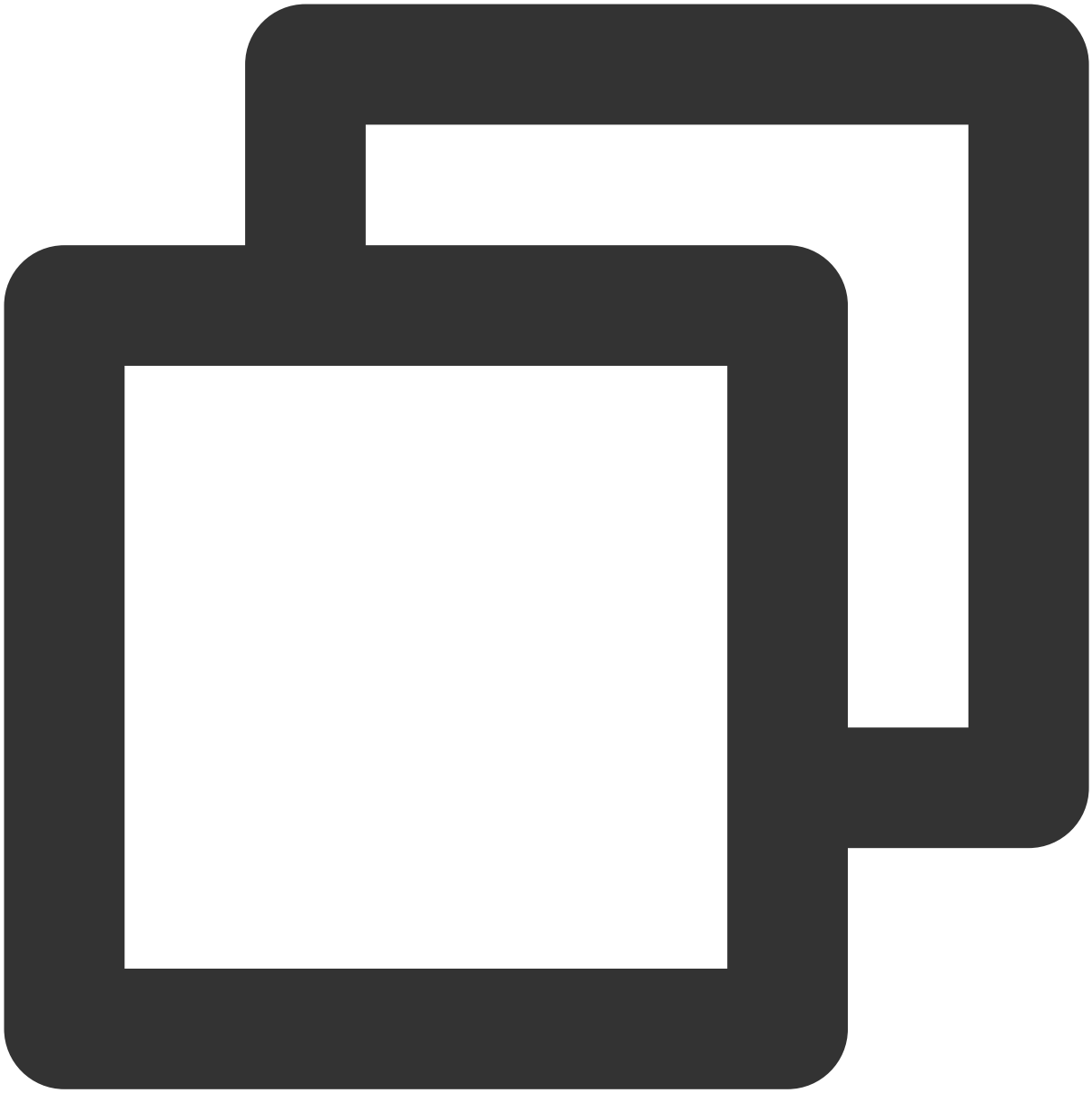

```
<VersioningConfiguration>
  <Status>Enabled</Status>
</VersioningConfiguration>
```

If you have suspended versioning for the bucket, the response is:

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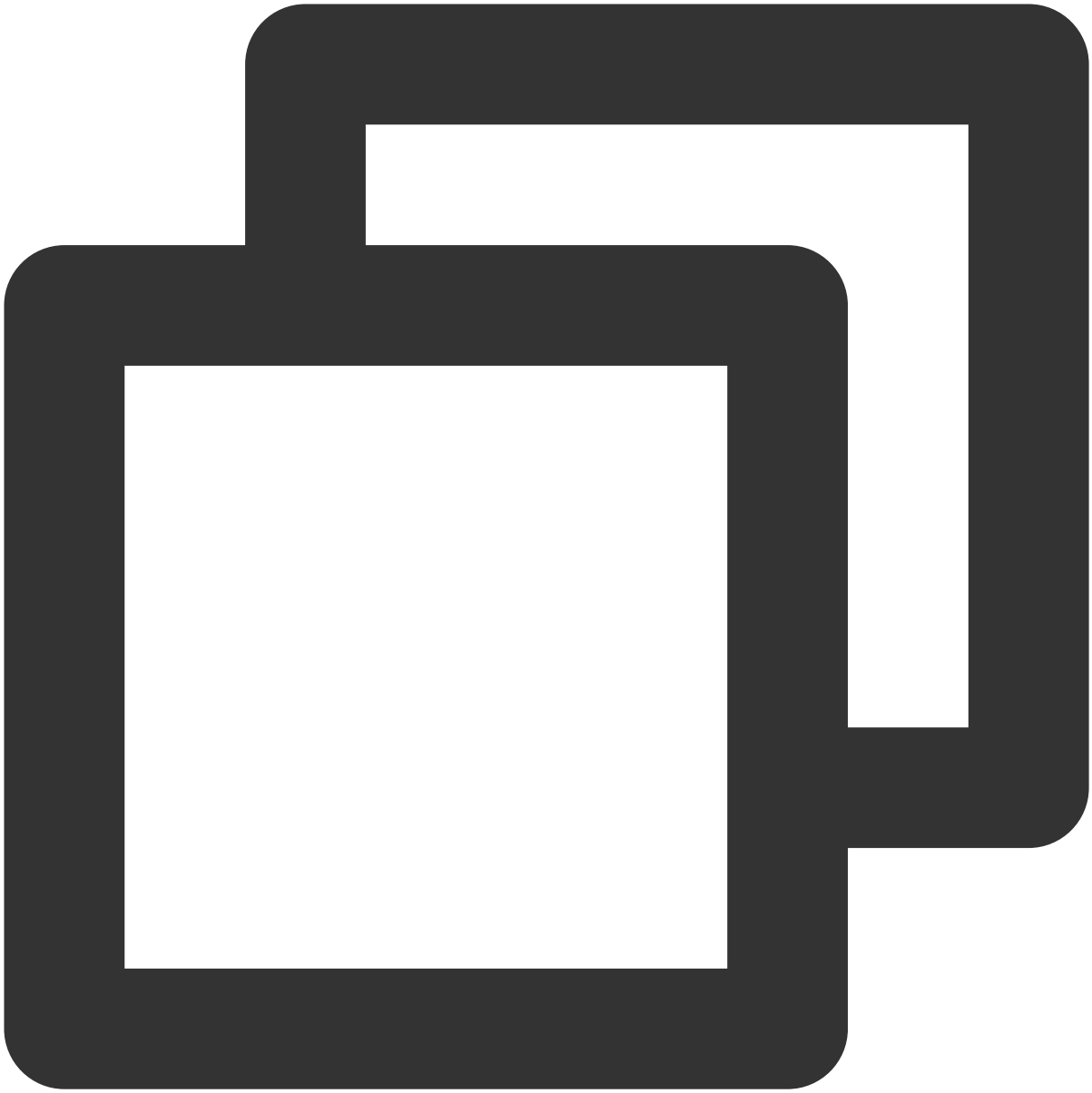

```
<VersioningConfiguration>
 <Status>Suspended</Status>
</VersioningConfiguration>
```

Request

Sample request

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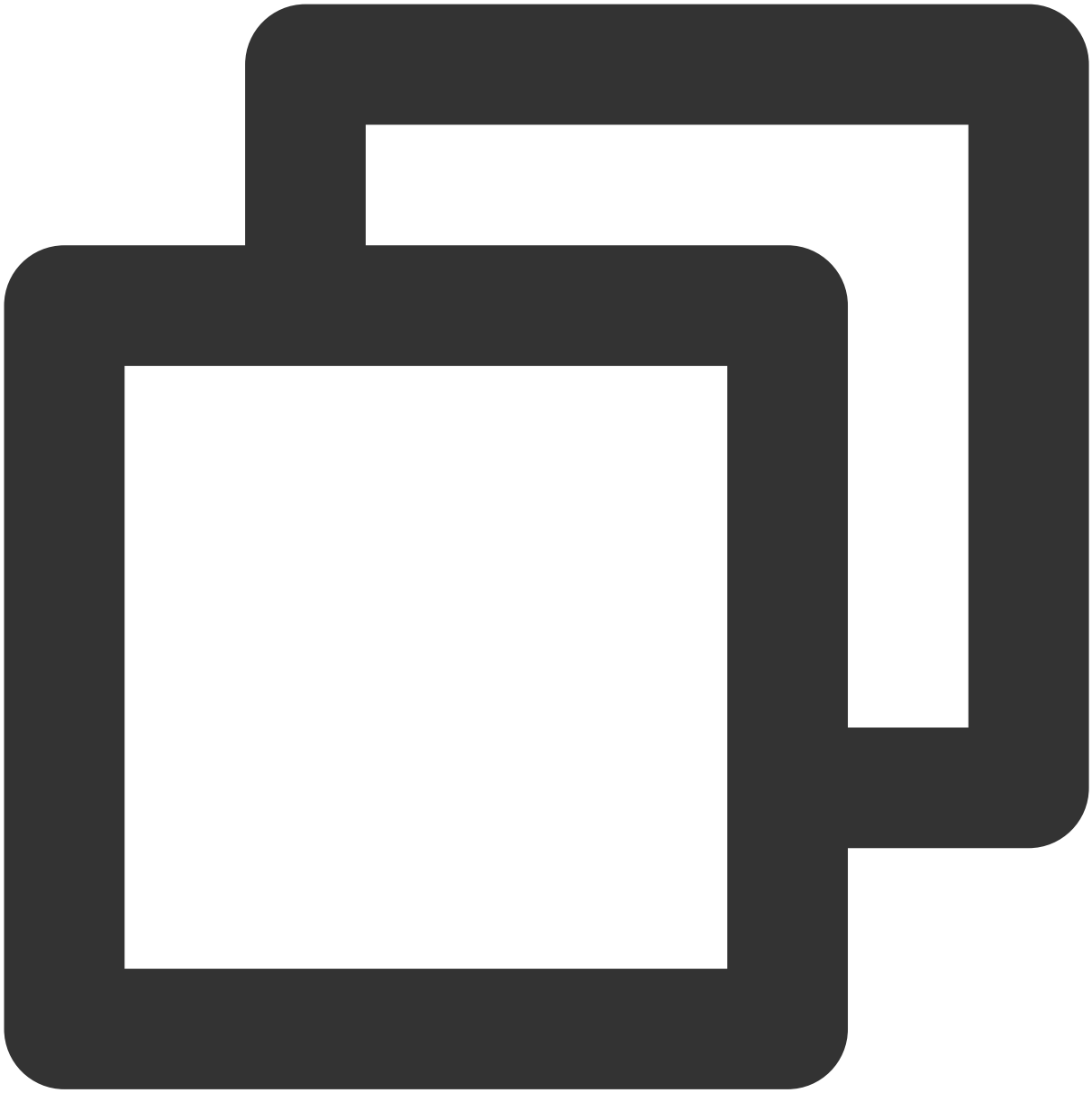

```
GET /?versioning HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

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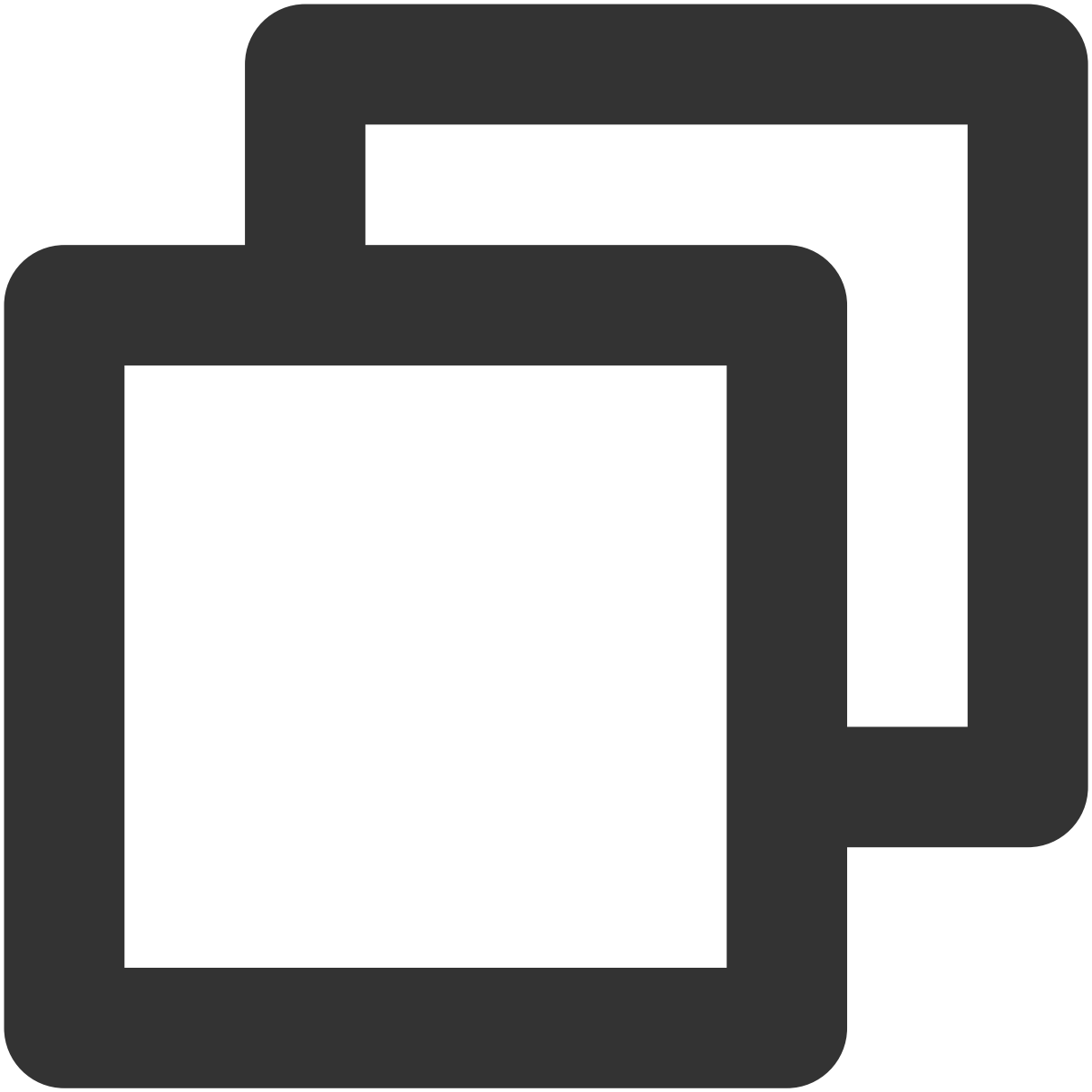

```
<VersioningConfiguration>
    <Status></Status>
</VersioningConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
VersioningConfiguration	None	Versioning configuration	Container
Status	VersioningConfiguration	Whether versioning is enabled.	Enum

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		Enumerated values: `Suspended`, `Enabled`	

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Request

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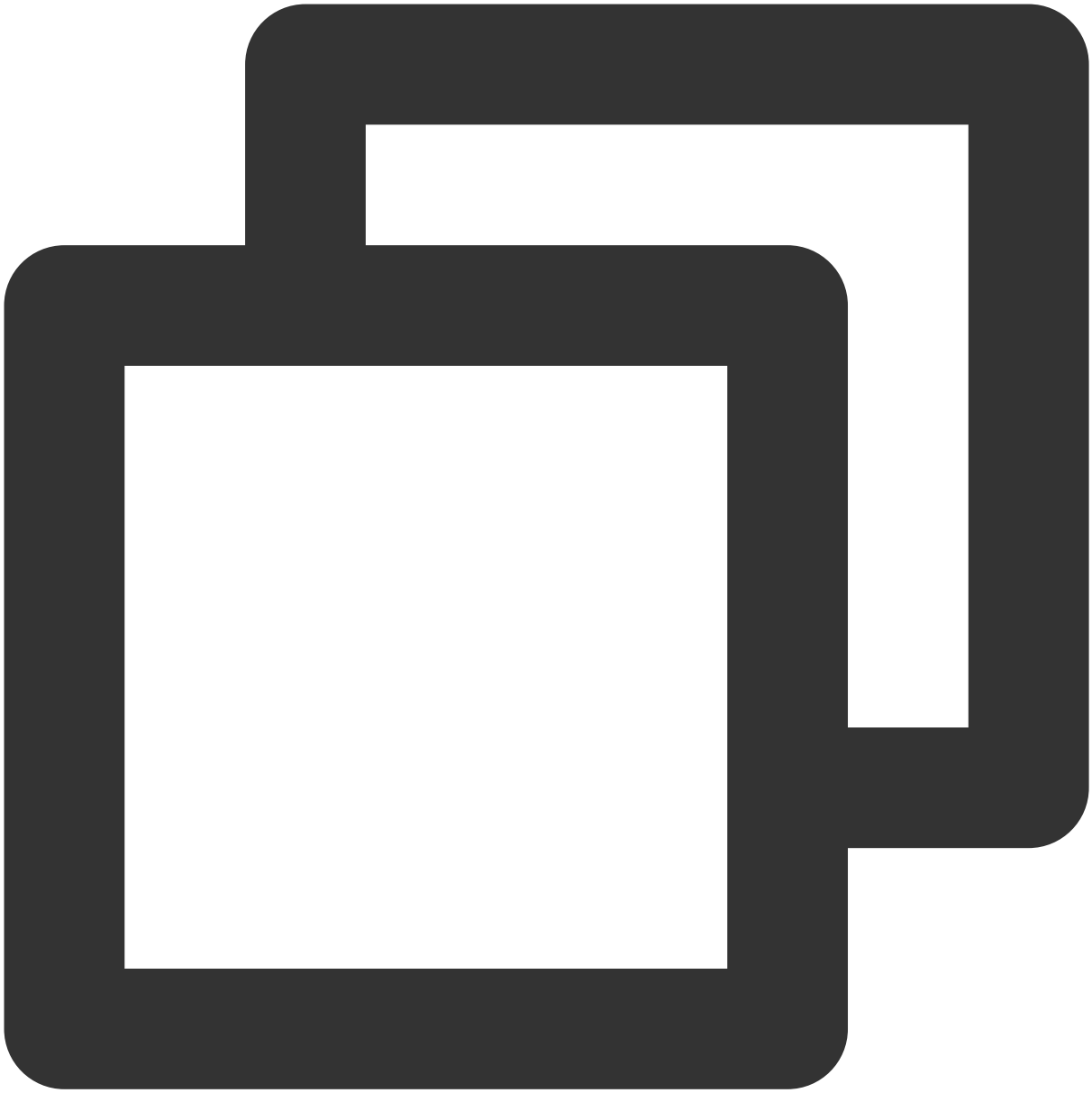

```
GET /?versioning HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
User-Agent: python-requests/2.12.4
Authorization: q-sign-algorithm=sha1&q-ak=AKID15IsskiBQKTZbAo6WhgcBqVls9Sm****&q-si
```

Response

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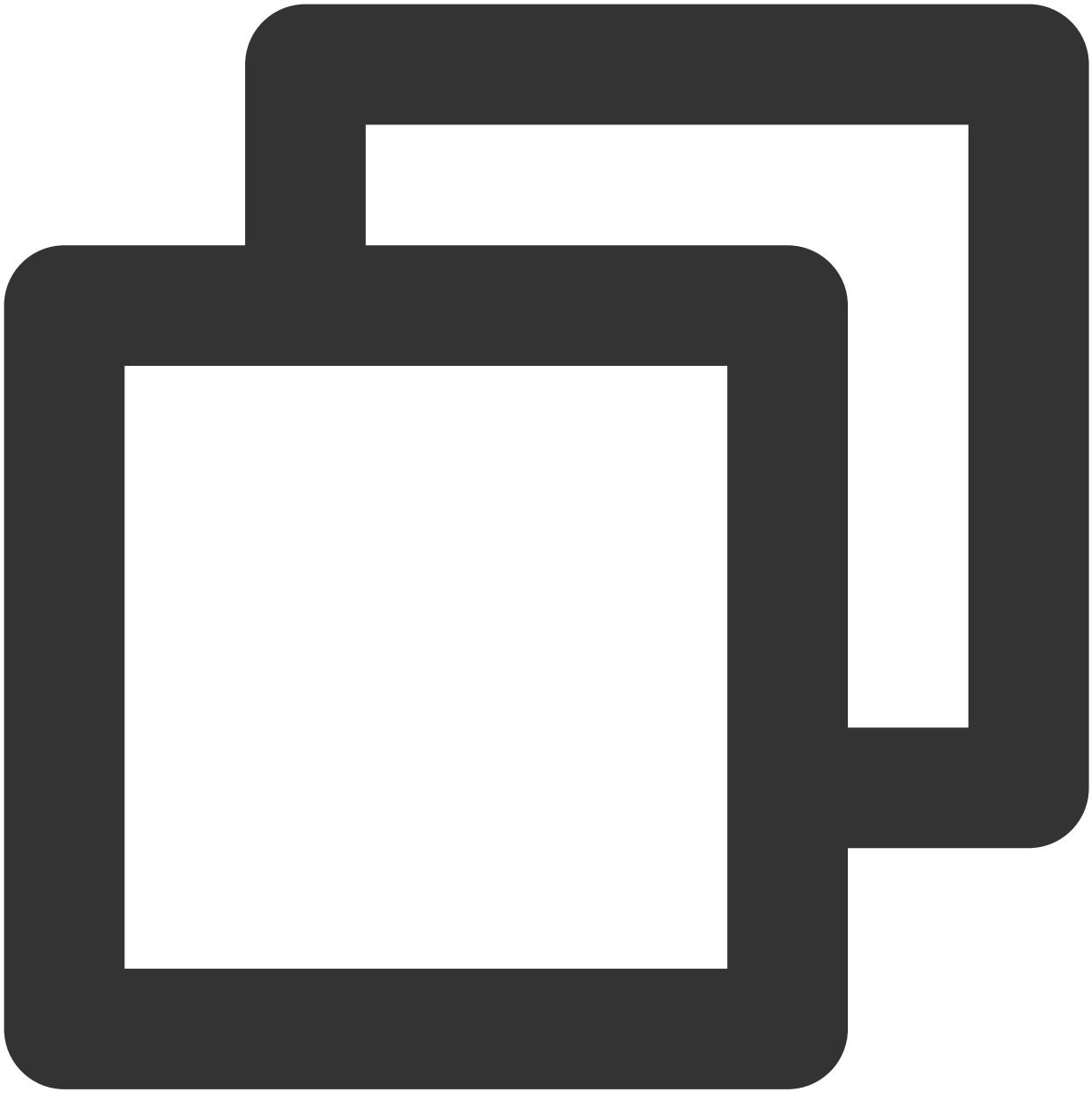

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 120
Connection: keep-alive
Date: Wed, 23 Aug 2017 08:15:16 GMT
Server: tencent-cos
x-cos-request-id: NTk5ZDM5OTRfZDNhZDM1MGFfMjYyMTFfZmU3****

<?xml version='1.0' encoding='utf-8' ?>
<VersioningConfiguration>
    <Status>Enabled</Status>
```

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```
</VersioningConfiguration>
```

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Cross-Bucket Replication（replication）
PUT Bucket replication

Last updated：2024-03-28 18:12:17

Overview

This API is used to add a cross-bucket replication rule to a versioning-enabled bucket. Note that the existing cross-bucket replication rule (if any) will be overwritten.

Note:

To use this API, ensure that versioning is enabled for the bucket. For the API documentation of versioning, please see PUT Bucket versioning.

Objects in MAZ buckets cannot be replicated to an OAZ bucket. For example, objects in MAZ_STANDARD cannot be replicated to STANDARD.

Requests

Request example

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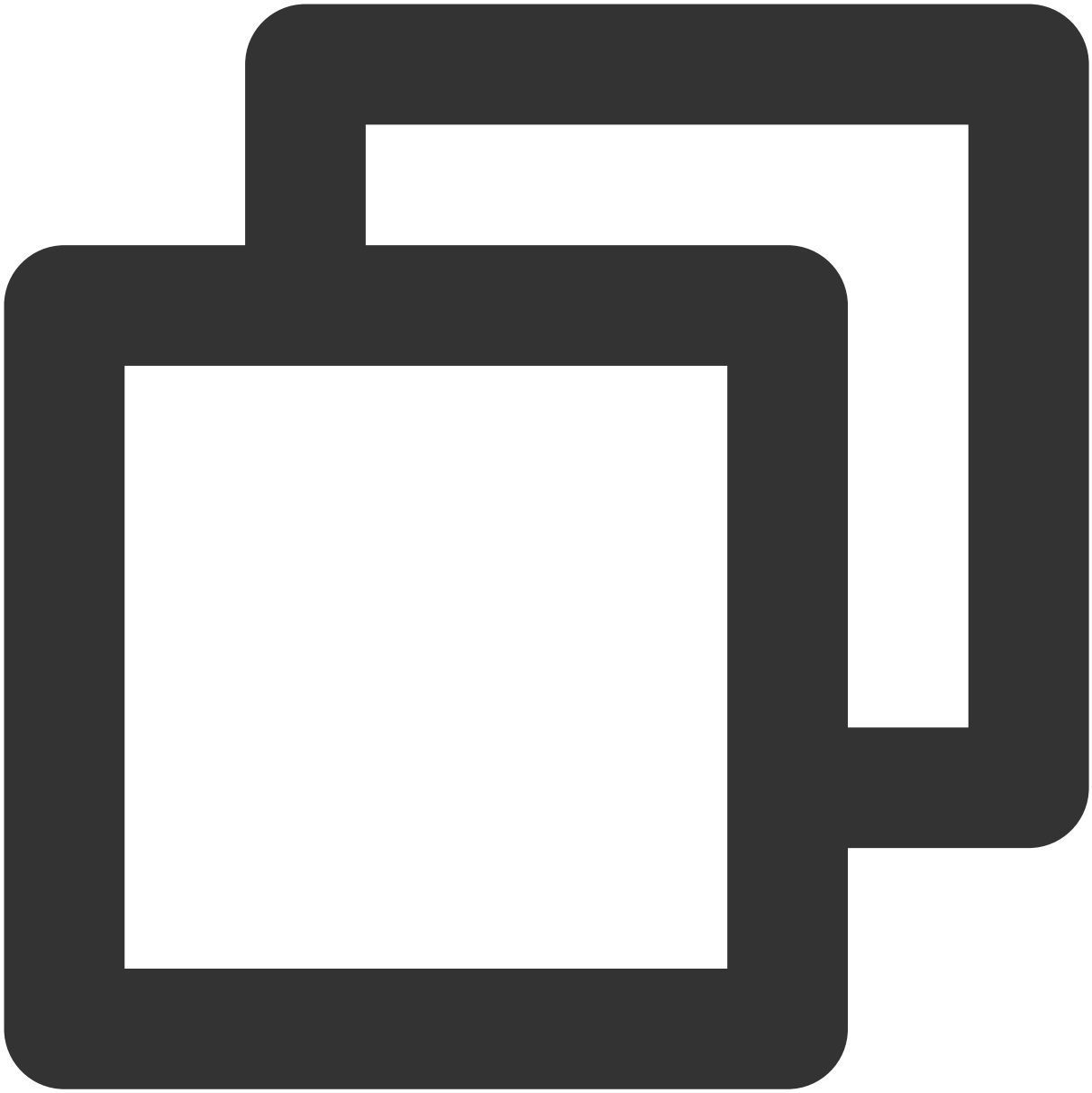

```
PUT /?replication HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-MD5: MD5
Authorization: Auth String
request body
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

You can set the cross-bucket replication configuration in the request body, which includes the rule status, priority, objects to replicate, filter scope, name and region of the destination bucket, and more.

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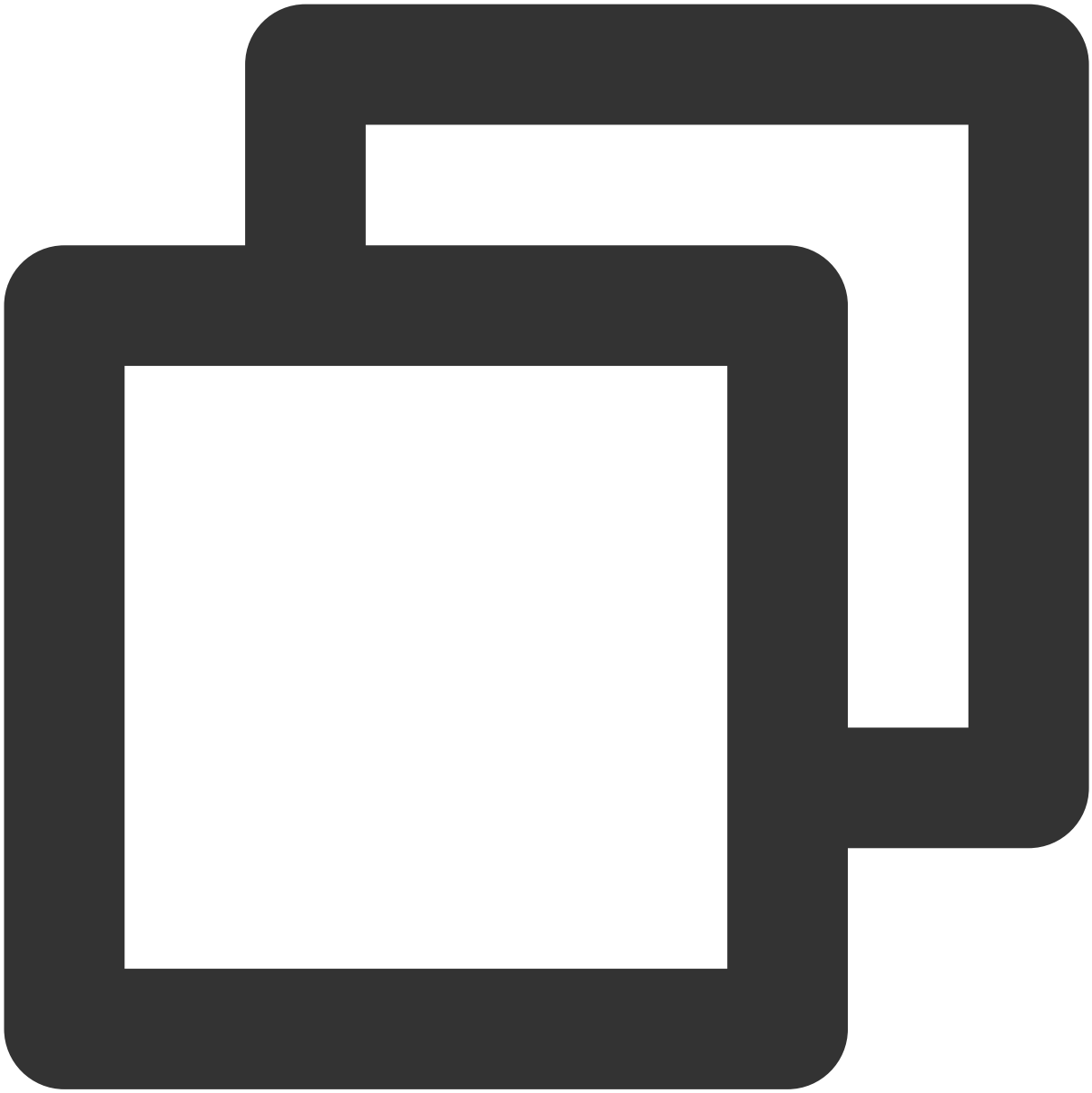

```
<ReplicationConfiguration>
    <Role>qcs::cam::uin/<OwnerUin>:uin/<SubUin></Role>
    <Rule>
        <Status></Status>
        <ID></ID>
        <Prefix></Prefix>
        <Destination>
            <Bucket>qcs::cos:<Region>::<BucketName-APPID></Bucket>
            <StorageClass></StorageClass>
        </Destination>
        <DeleteMarkerReplication>
```

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```
            <Status></Status>
        </DeleteMarkerReplication>
    </Rule>
</ReplicationConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description
ReplicationConfiguration	None	All replication configurations
Role	ReplicationConfiguration	Request initiator identifier, formatted as `qcs::cam::uin/<OwnerUin>:uin`
Rule	ReplicationConfiguration	Specific configuration. You can set a ma 1,000 rules.
ID	ReplicationConfiguration.Rule	Name of a specific rule
Status	ReplicationConfiguration.Rule	`Rule` status identifier. Enumerated va `Enabled` , `Disabled` .
Prefix	ReplicationConfiguration.Rule	Prefix of the object to be replicated
Destination	ReplicationConfiguration.Rule	Destination bucket information
Bucket	ReplicationConfiguration.Rule.Destination	Resource identifier, formatted as `qcs: <Region>::<BucketName-APPID>`
DeleteMarkerReplication	ReplicationConfiguration.Rule	Whether to sync the delete marker
Status	ReplicationConfiguration.Rule. DeleteMarkerReplication	Whether to sync the delete marker. Valic `Disabled` , `Enabled` . Default valu `Enabled` .

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

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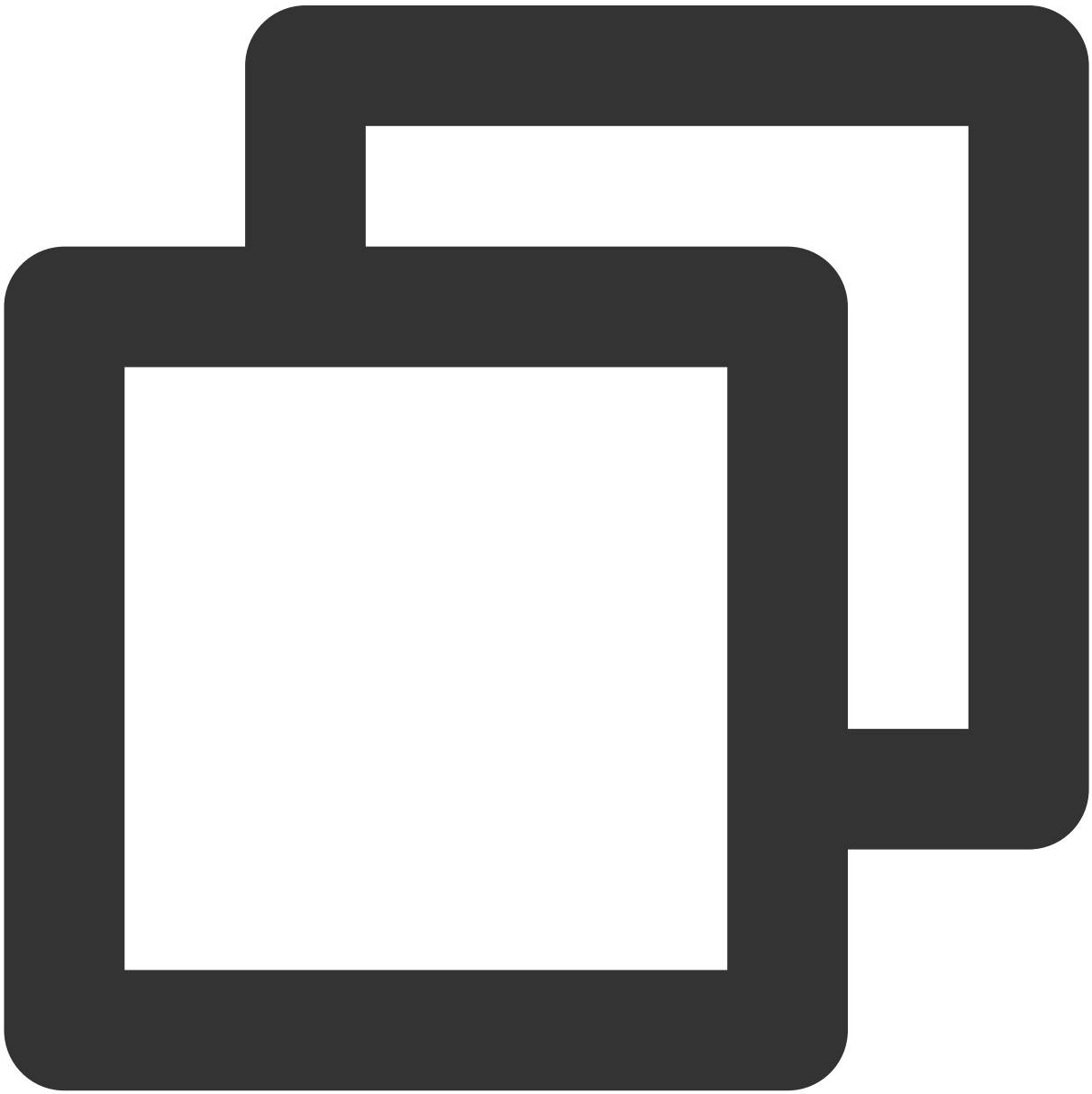
This API returns uniform error responses and error codes. For more information, see Error Codes.

Examples

Request

The following request adds a cross-bucket replication rule to the `originbucket-1250000000` bucket. The `ReplicationConfiguration` specifies that all objects prefixed with `testPrefix` are to be replicated to the `destinationbucket-1250000000` destination bucket in Guangzhou region.



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```
PUT /?replication HTTP/1.1
Date: Mon, 28 Aug 2017 02:53:38 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Content-MD5: AAq9nzrpsz5LJ4UEe1f6Q==
Host: originbucket-1250000000.cos.ap-guangzhou.myqcloud.com
Content-Length: 312

<ReplicationConfiguration>
    <Role>qcs::cam::uin/100000000001:uin/100000000001</Role>
    <Rule>
        <Status>Enabled</Status>
        <ID>RuleId_01</ID>
        <Prefix>testPrefix</Prefix>
        <Destination>
            <Bucket>qcs::cos:ap-guangzhou::destinationbucket-1250000000</Bucket>
        </Destination>
    </Rule>
</ReplicationConfiguration>
```

Response

After the request above is made, COS returns the following response, indicating that the cross-bucket replication rule has been successfully configured.

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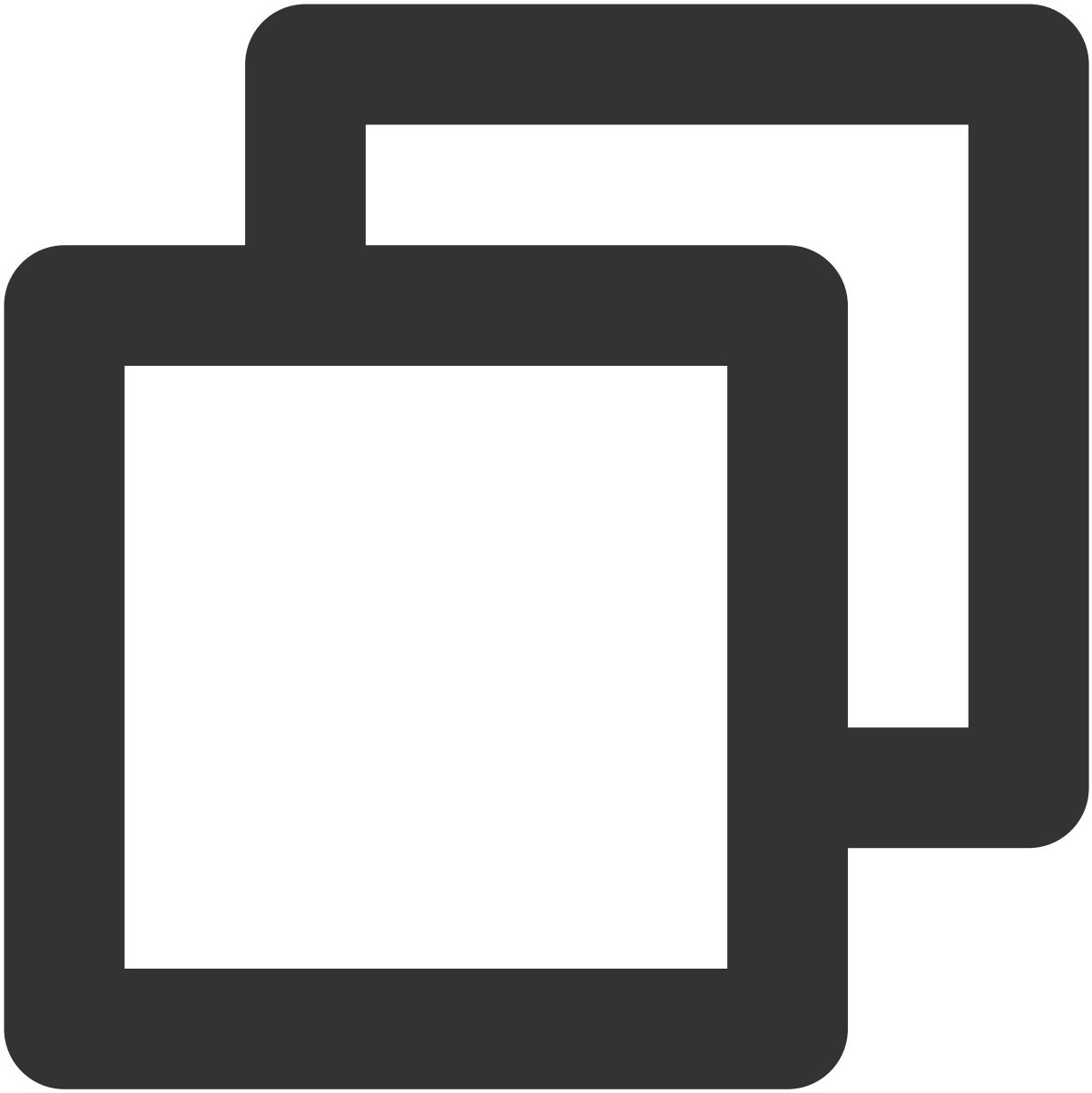

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Fri, 14 Apr 2019 07:06:19 GMT
Server: tencent-cos
x-cos-bucket-region: ap-guangzhou
x-cos-request-id: NWQwMzQ3NmJfMjRiMjU4NjRfOTM4NV82ZDU1****
x-cos-trace-id: OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODc0OWRkZjk0ZDM1NmI1M2E2MTR
```

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GET Bucket replication

Last updated：2024-03-28 18:12:17

Overview

This API is used to query the cross-bucket replication configuration of a bucket. When calling this API, you need to carry a request signature.

Requests

Request example

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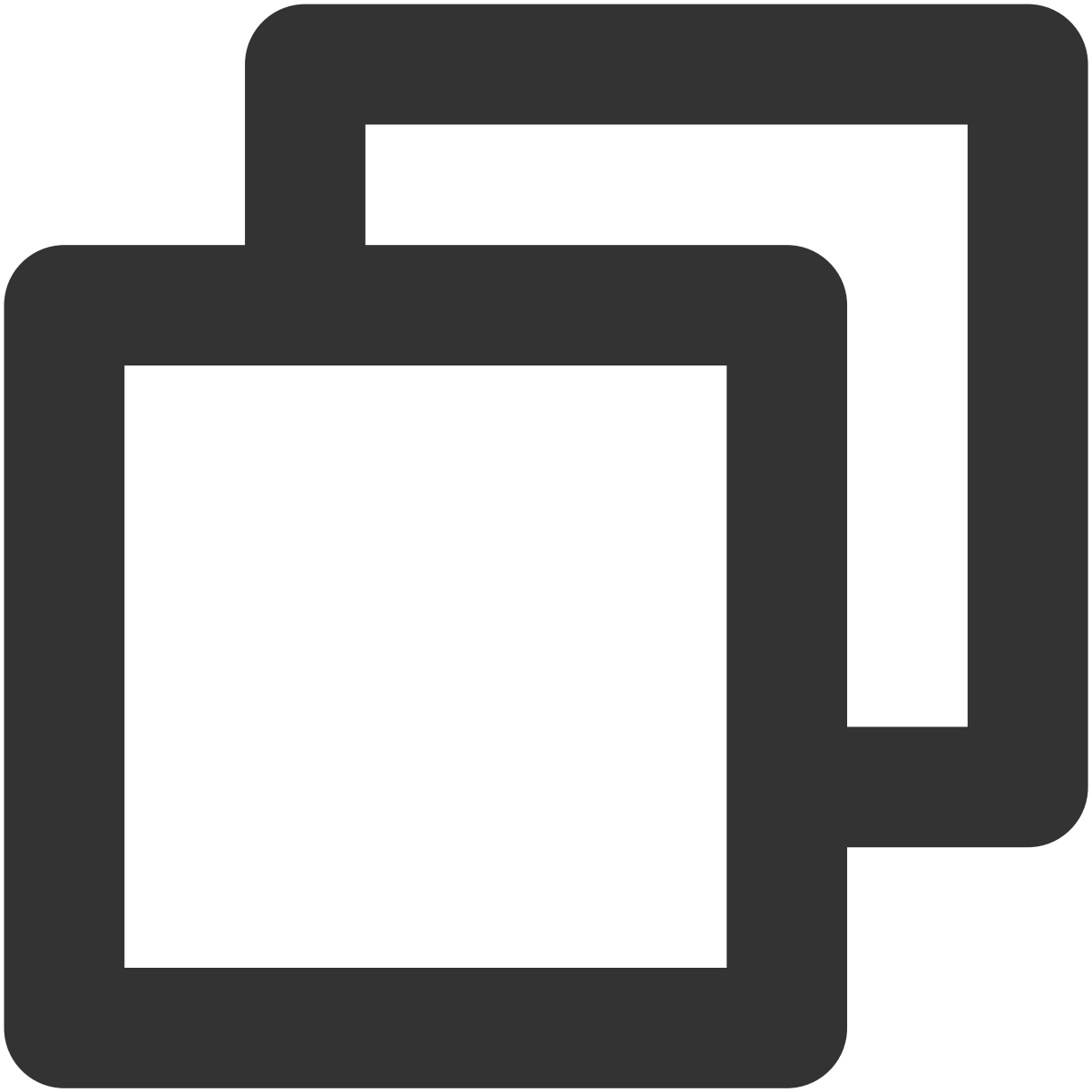

```
GET /?replication HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application**/**xml** data. The following contains all the nodes:

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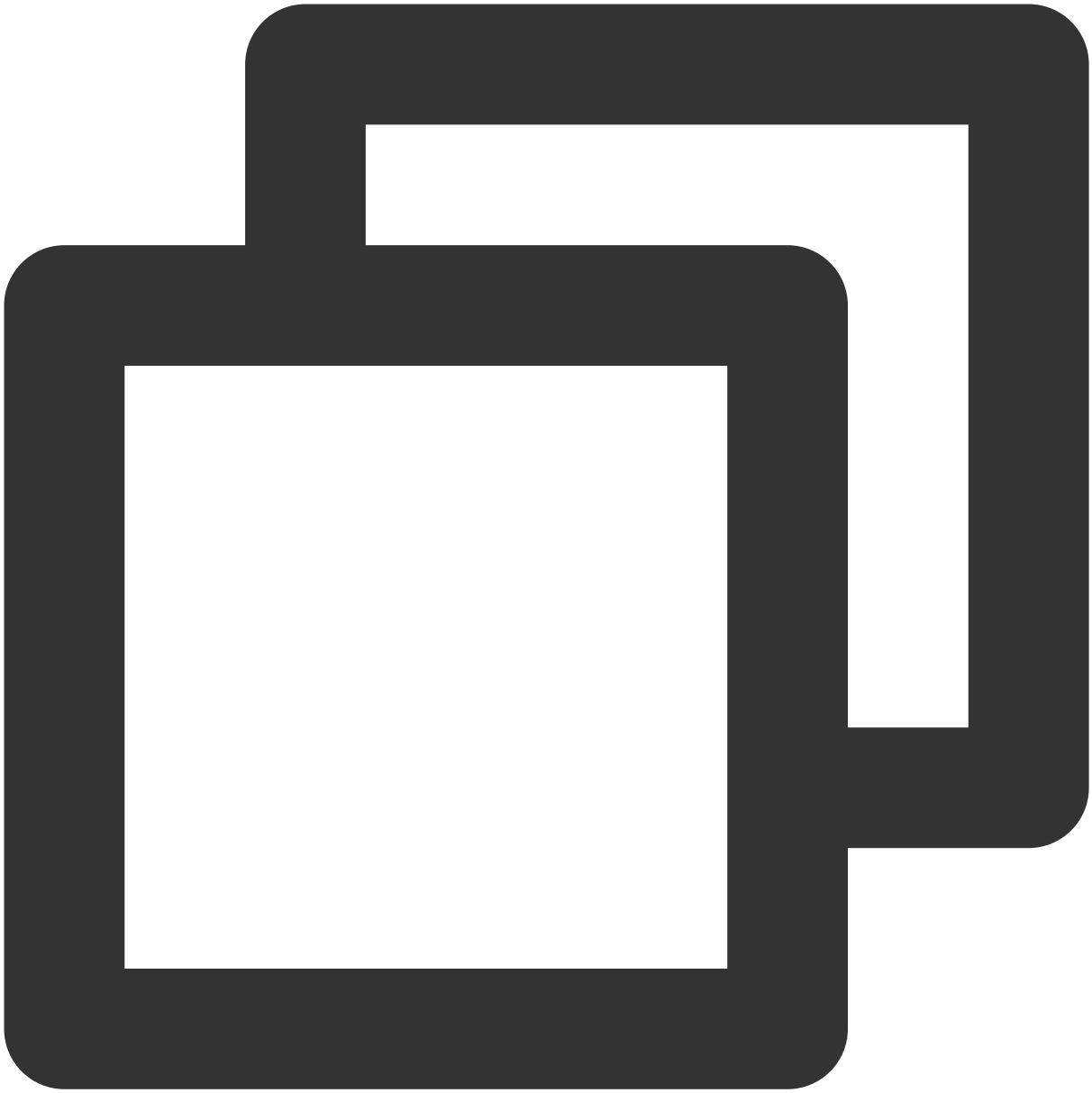

```
<ReplicationConfiguration>
    <Role>qcs::cam::uin/<OwnerUin>:uin/<SubUin></Role>
    <Rule>
        <Status></Status>
        <ID></ID>
        <Prefix></Prefix>
        <Destination>
            <Bucket>qcs::cos:<Region>::<BucketName-APPID></Bucket>
            <StorageClass></StorageClass>
        </Destination>
        <DeleteMarkerReplication>
```

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```
            <Status></Status>
        </DeleteMarkerReplication>
    </Rule>
</ReplicationConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description
ReplicationConfiguration	None	All replication configurations
Role	ReplicationConfiguration	Request initiator identifier, formatted as `qcs::cam::uin/<OwnerUin>:`
Rule	ReplicationConfiguration	Specific configuration. You can set a ma which should apply to the same destinat
ID	ReplicationConfiguration.Rule	Name of a specific rule
Status	ReplicationConfiguration.Rule	`Rule` status identifier. Enumerated va `Disabled`
Prefix	ReplicationConfiguration.Rule	Prefix matching policy. Policies cannot o error will be returned. To match the root parameter empty.
Destination	ReplicationConfiguration.Rule	Destination bucket information
Bucket	ReplicationConfiguration.Rule.Destination	Resource identifier, formatted as `qcs: [BucketName-APPID]`
StorageClass	ReplicationConfiguration.Rule.Destination	Storage class. Enumerated values: `ST` `INTELLIGENT_TIERING` , `STANDA` `ARCHIVE` , `DEEP_ARCHIVE` . Defau class of the source bucket.
DeleteMarkerReplication	ReplicationConfiguration.Rule	Whether to sync the delete marker
Status	ReplicationConfiguration.Rule. DeleteMarkerReplication	Whether to sync the delete marker. Valic `Disabled` , `Enabled` . Default valu

Error codes

This API returns uniform error responses and error codes. For more information, see Error Codes.

Examples

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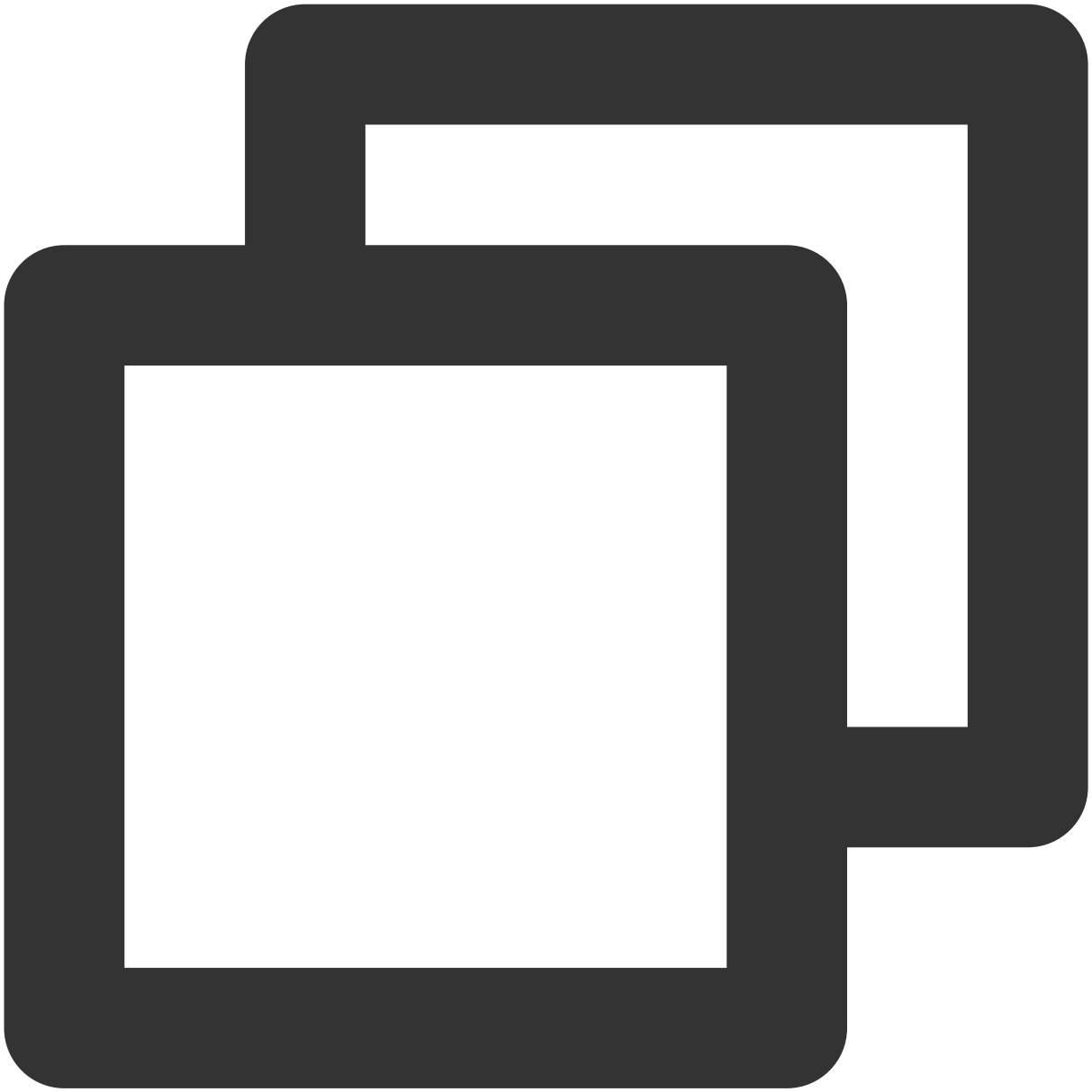
Request

The following example queries the configuration of the `originbucket-1250000000` bucket:



```
GET /?replication HTTP/1.1
Date: Fri, 14 Apr 2019 07:17:19 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR98JM&q-si
Host: originbucket-1250000000.cos.ap-guangzhou.myqcloud.com
Content-Length: 0
```

Response

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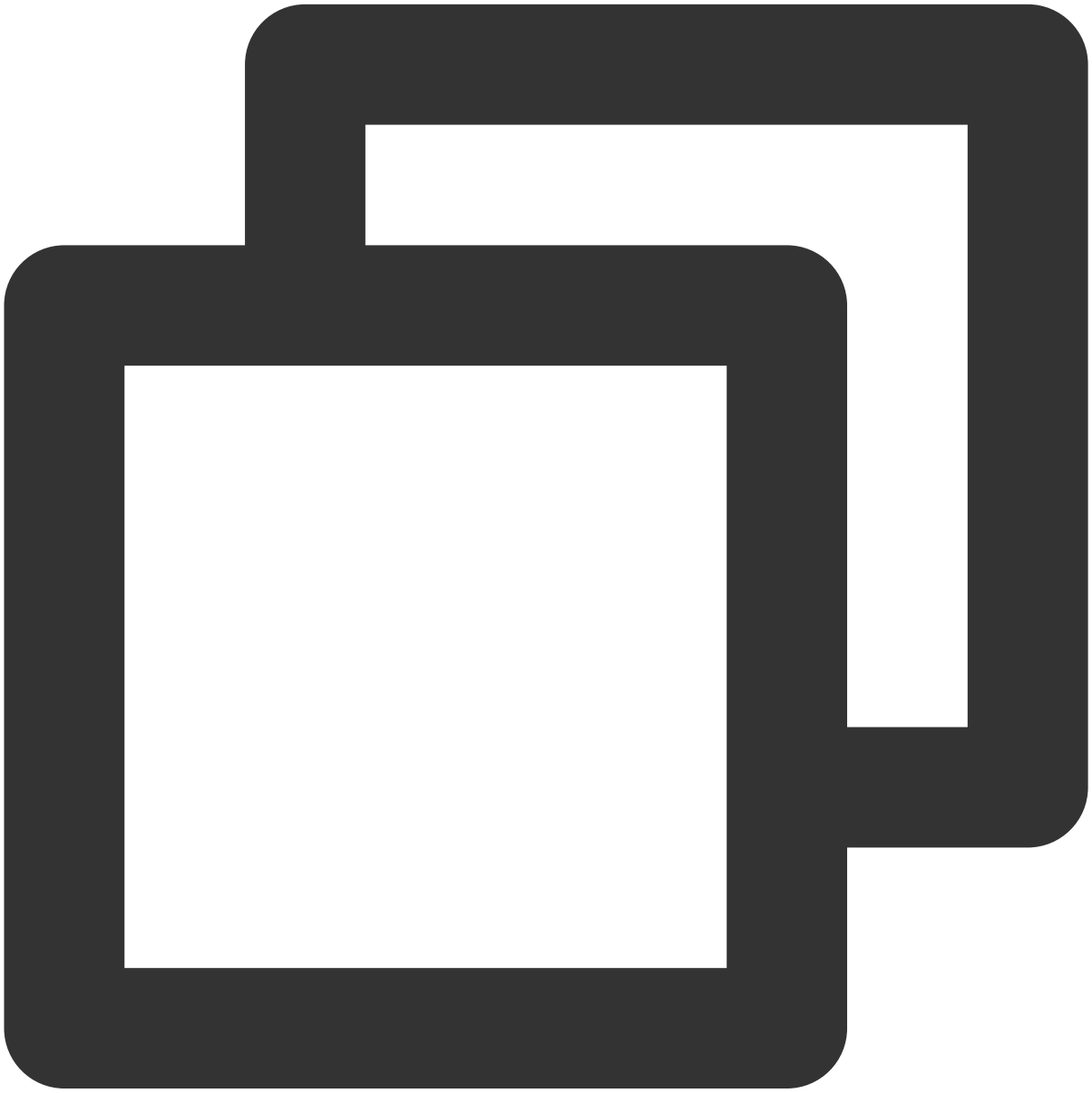
After the request above is made, COS returns the following response, indicating that the cross-bucket replication configuration of the bucket is enabled. The `ReplicationConfiguration` indicates that all objects prefixed with `testPrefix` in the `originbucket-1250000000` bucket are to be replicated. Storage classes of the replicated objects are subject to those of the source bucket.



```
Content-Type: application/xml
Content-Length: 309
Connection: keep-alive
Date: Fri, 14 Apr 2019 07:17:19 GMT
Server: tencent-cos
x-cos-replication-rule-creation-time: Fri, 14 Apr 2019 07:06:19 GMT
```

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```
x-cos-request-id: NWQwMzQ5ZmZfMjBiNDU4NjRfNjAwOV84MzA2****
<ReplicationConfiguration>
    <Role>qcs::cam::uin/100000000001:uin/100000000001</Role>
    <Rule>
        <Status>Enabled</Status>
        <ID>RuleId_01</ID>
        <Prefix>testPrefix</Prefix>
        <Destination>
            <Bucket>qcs::cos:ap-guangzhou::destinationbucket-1250000000</Bucket>
        </Destination>
    </Rule>
</ReplicationConfiguration>
```

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DELETE Bucket replication

Last updated：2024-03-28 18:12:17

Overview

This API is used to delete the cross-bucket replication configuration from a bucket. When initiating this request, you need to get the request signature to show that the request has been authorized.

Request

Request example

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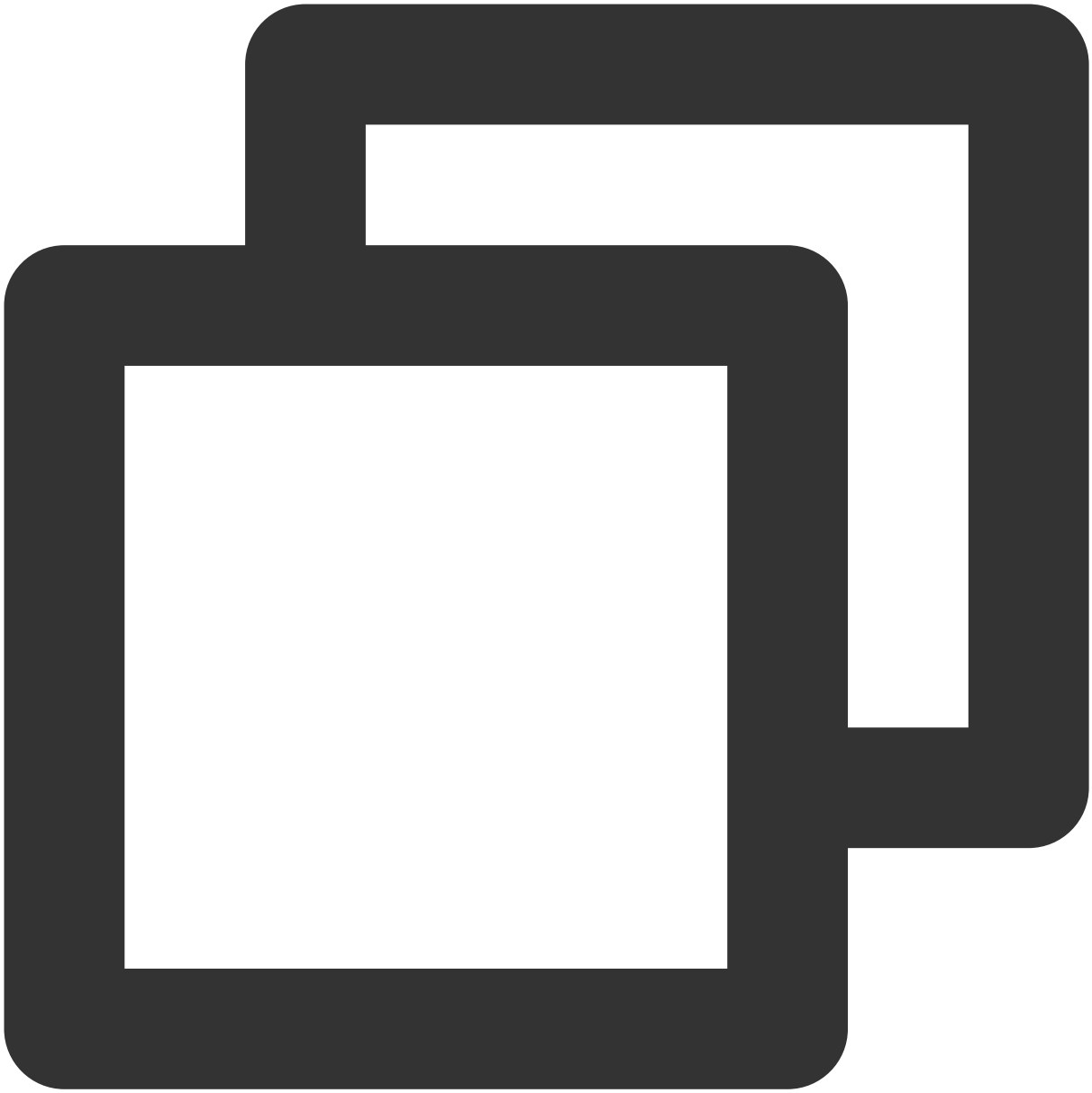

```
DELETE /?replication HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns uniform error responses and error codes. For more information, see Error Codes.

Examples

Request

The following example deletes the cross-bucket replication configuration from the `originbucket-1250000000` bucket:

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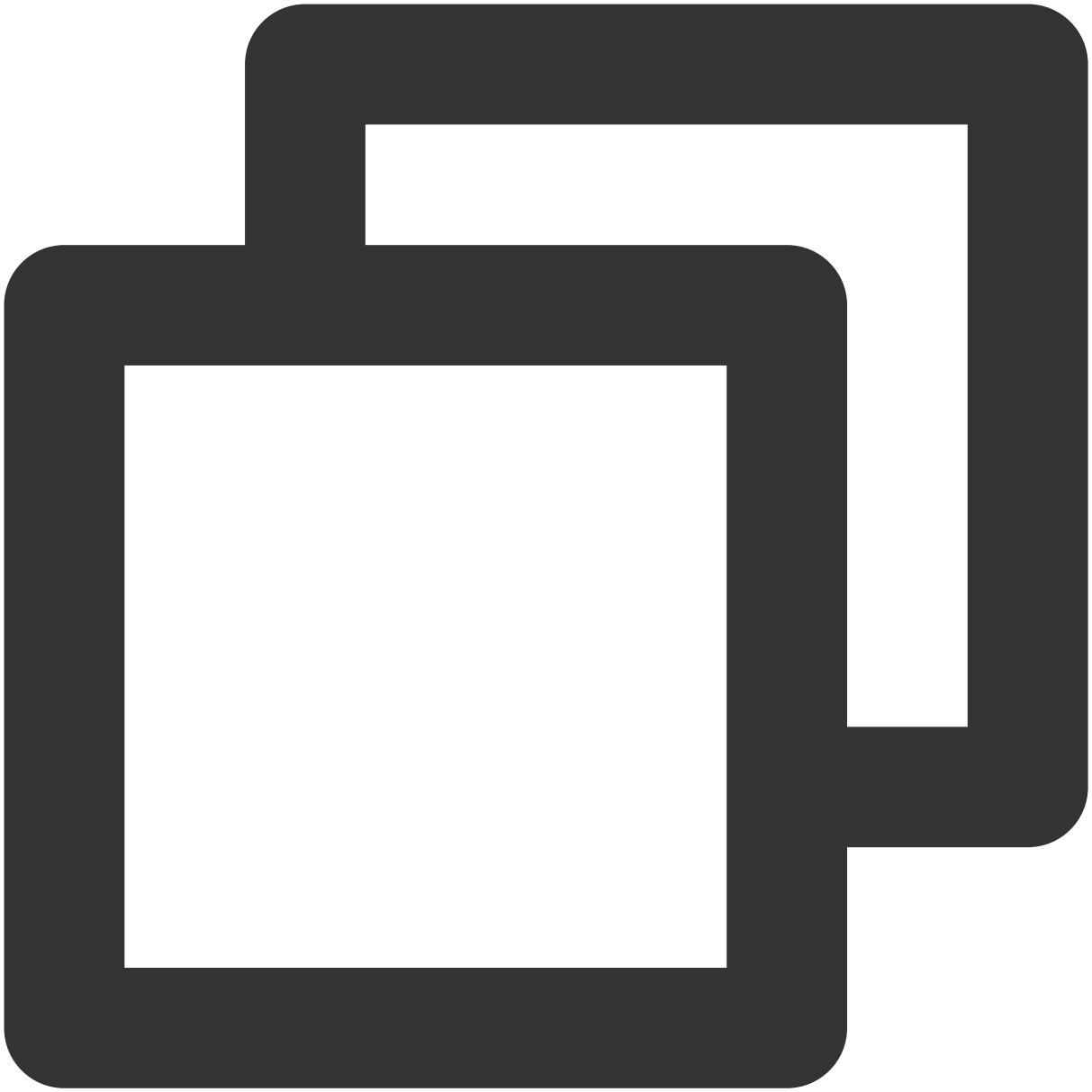

```
DELETE /?replication HTTP/1.1
Date: Fri, 14 Apr 2019 07:47:35 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: originbucket-1250000000.cos.ap-chengdu.myqcloud.com
```

Response

After the request above is made, COS returns "204 No Content", which indicates that the cross-bucket replication configuration has been successfully deleted from the bucket. After the configuration is deleted, COS will no longer

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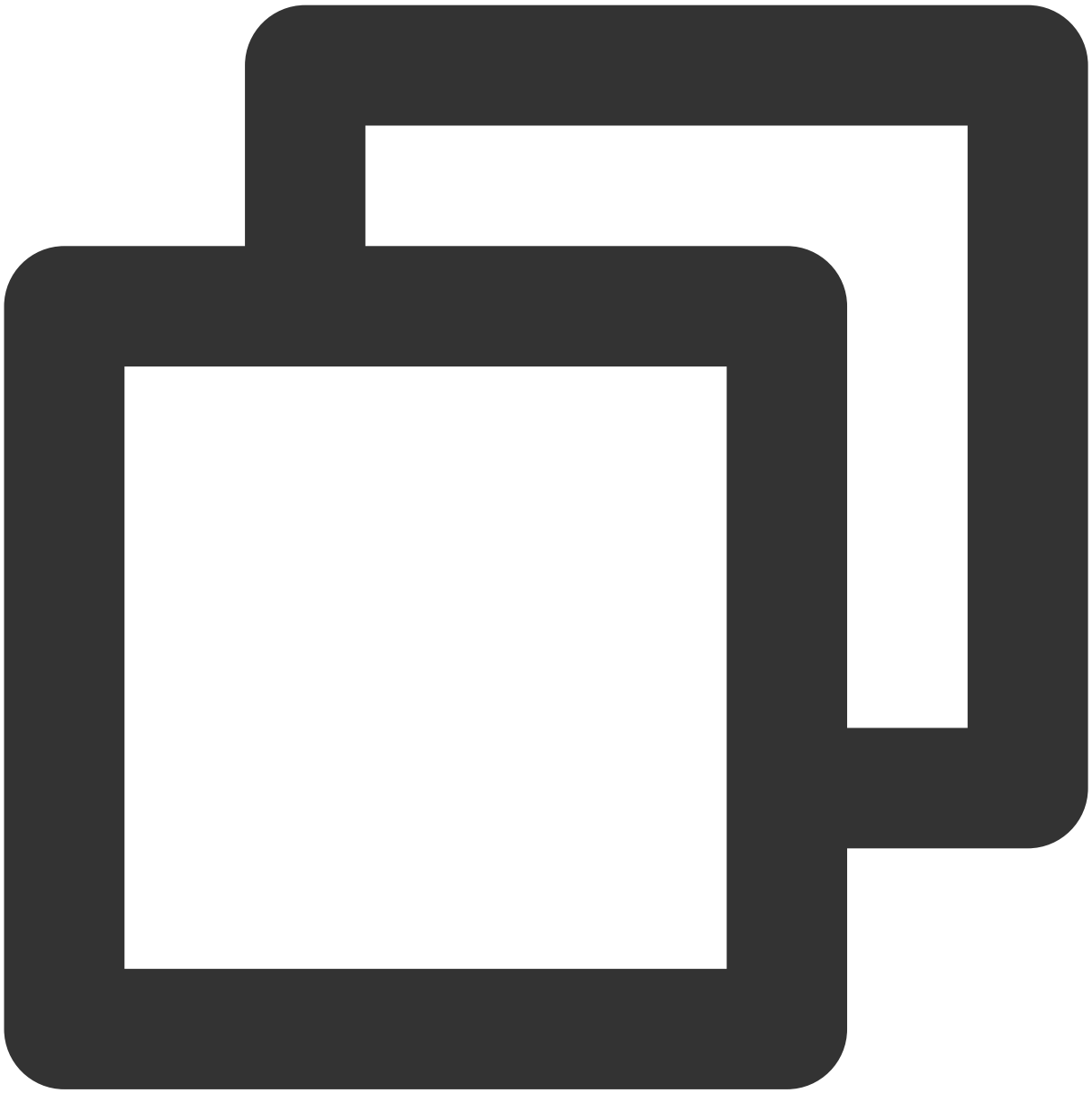
replicate objects in the source bucket to the destination bucket, and the existing object data in the destination bucket will be retained.



```
Content-Length: 0
Connection: keep-alive
Date: Fri, 14 Apr 2019 07:47:35 GMT
Server: tencent-cos
x-cos-request-id: NWQwMzUxMTdfMjBiNDU4NjRfNWZlZF84Mjdm****
x-cos-trace-id: OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODc0OWRkZjk0ZDM1NmI1M2E2MTR
```

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Log Management(logging)
PUT Bucket logging

Last updated：2024-03-28 18:12:17

Overview

This API is used to enable logging for a source bucket and store access logs in a specified destination bucket.

Note:

Only the owner of the source bucket has permission to call this API.
To enable logging, you need to grant Cloud Log Service (CLS) permission to write to COS. For detailed directions, please see Enabling Log Management.

Request

Sample request

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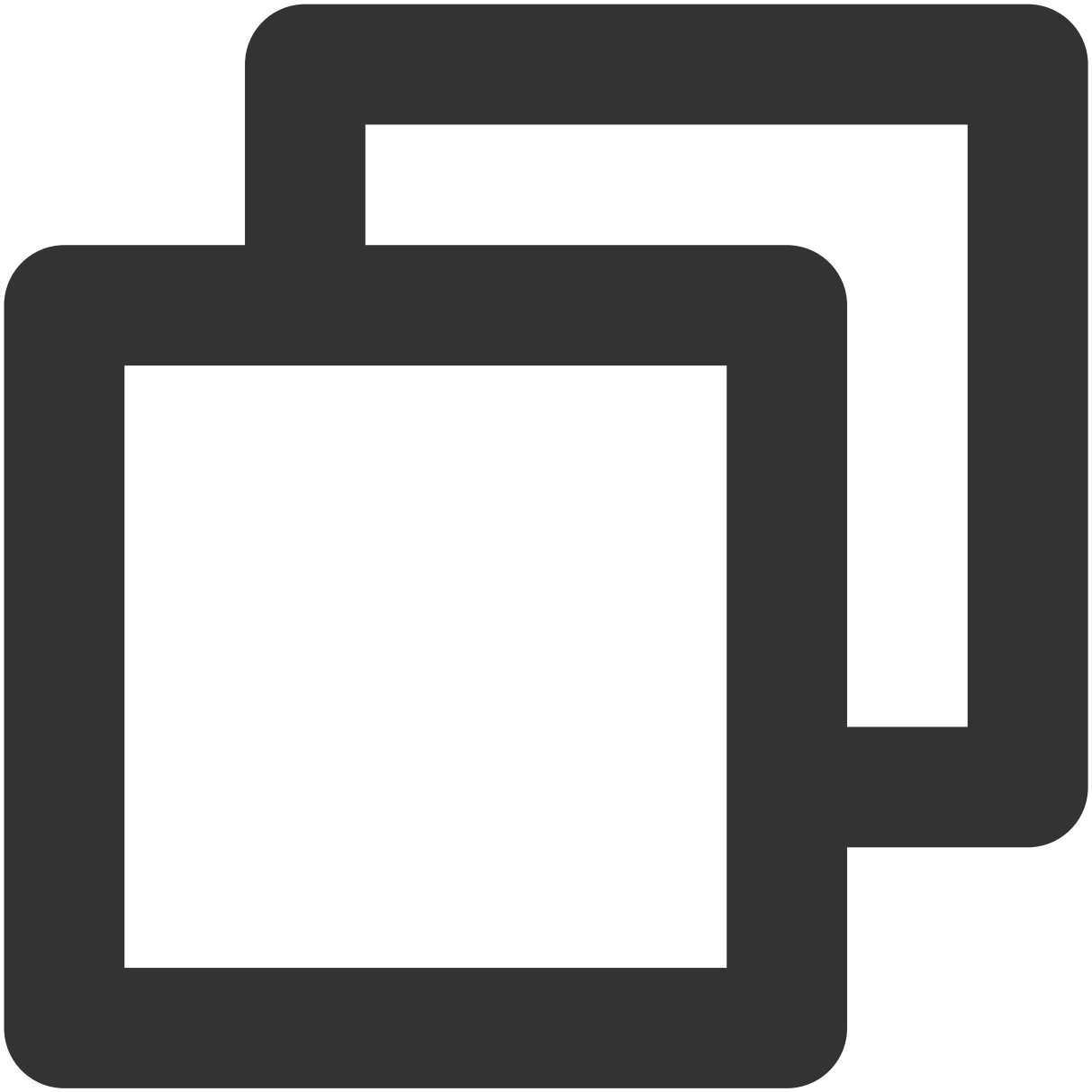

```
PUT /?logging HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date:date
Content-Length: length
Content-Type: application/xml
Content-MD5: MD5
Authorization: Auth String
```

Note:

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In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

This request requires a request body. A request body with all nodes is as follows:

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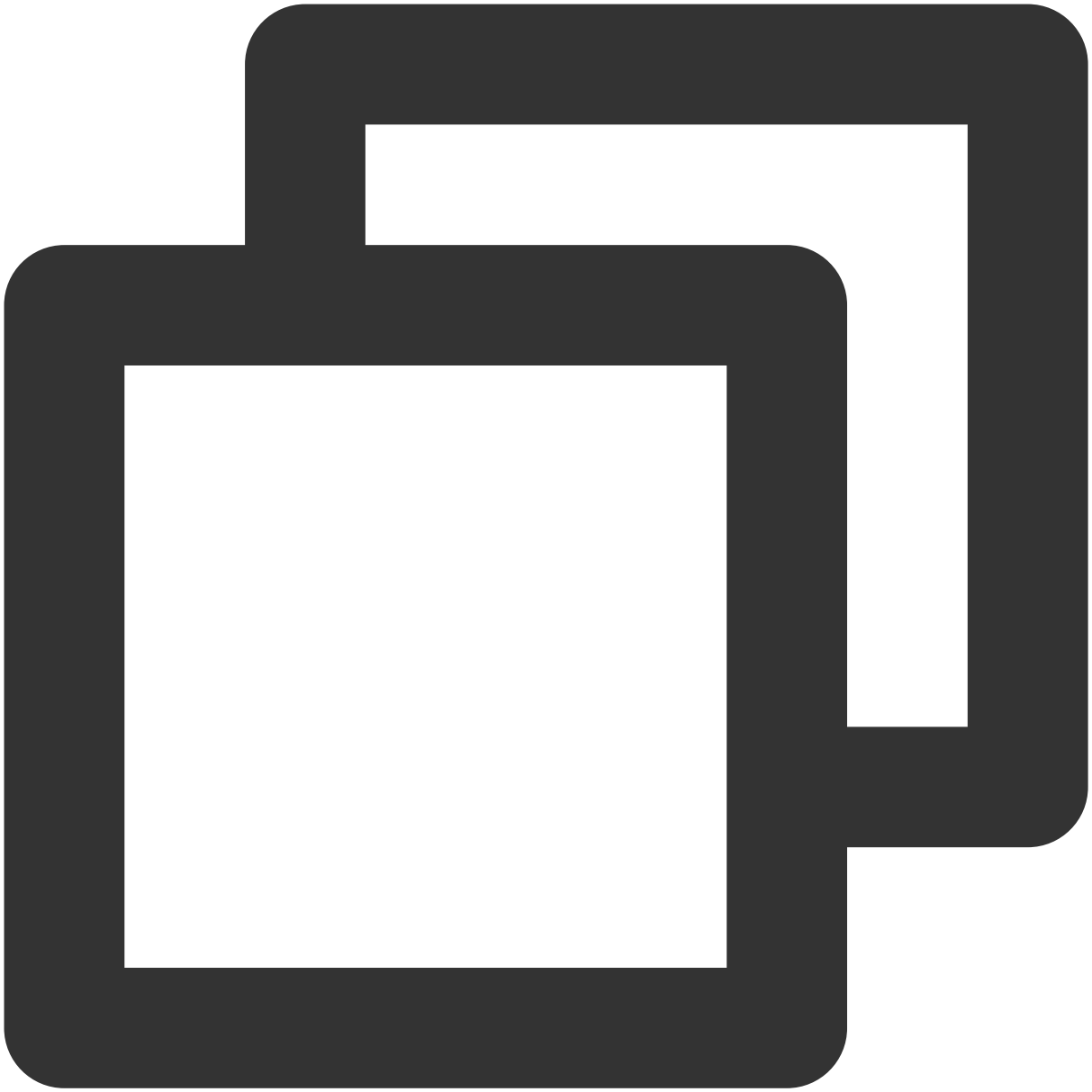

```
<BucketLoggingStatus>
  <LoggingEnabled>
    <TargetBucket>examplebucket-1250000000</TargetBucket>
    <TargetPrefix>prefix</TargetPrefix>
  </LoggingEnabled>
</BucketLoggingStatus>
```

The nodes are as follows: table th:nth-of-type(1) { width: 200px; }

Node Name (Keyword)	Parent Node	Description	Type	Required

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BucketLoggingStatus	None	Logging status. If there is no child node information, logging is disabled.	Container	Yes

Content of `BucketLoggingStatus` :

Node Name (Keyword)	Parent Node	Description	Type	Required
LoggingEnabled	BucketLoggingStatus	Specific logging configuration, mainly for the destination bucket	Container	No

Content of `LoggingEnabled` :

Node Name (Keyword)	Parent Node	Description	Type	Required
TargetBucket	LoggingEnabled	Destination bucket to store logs. It can be a bucket under the same account or in the same region as the source bucket, or the source bucket itself (not recommended).	String	No
TargetPrefix	LoggingEnabled	Path in the destination bucket used to store logs	String	No

Note:

After you specify the two nodes above, names of the generated logs will be in the format of `TargetBucket/TargetPrefix{YYYY}/{MM}/{DD}/{time}_{random}_{index}.gz` .

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Example

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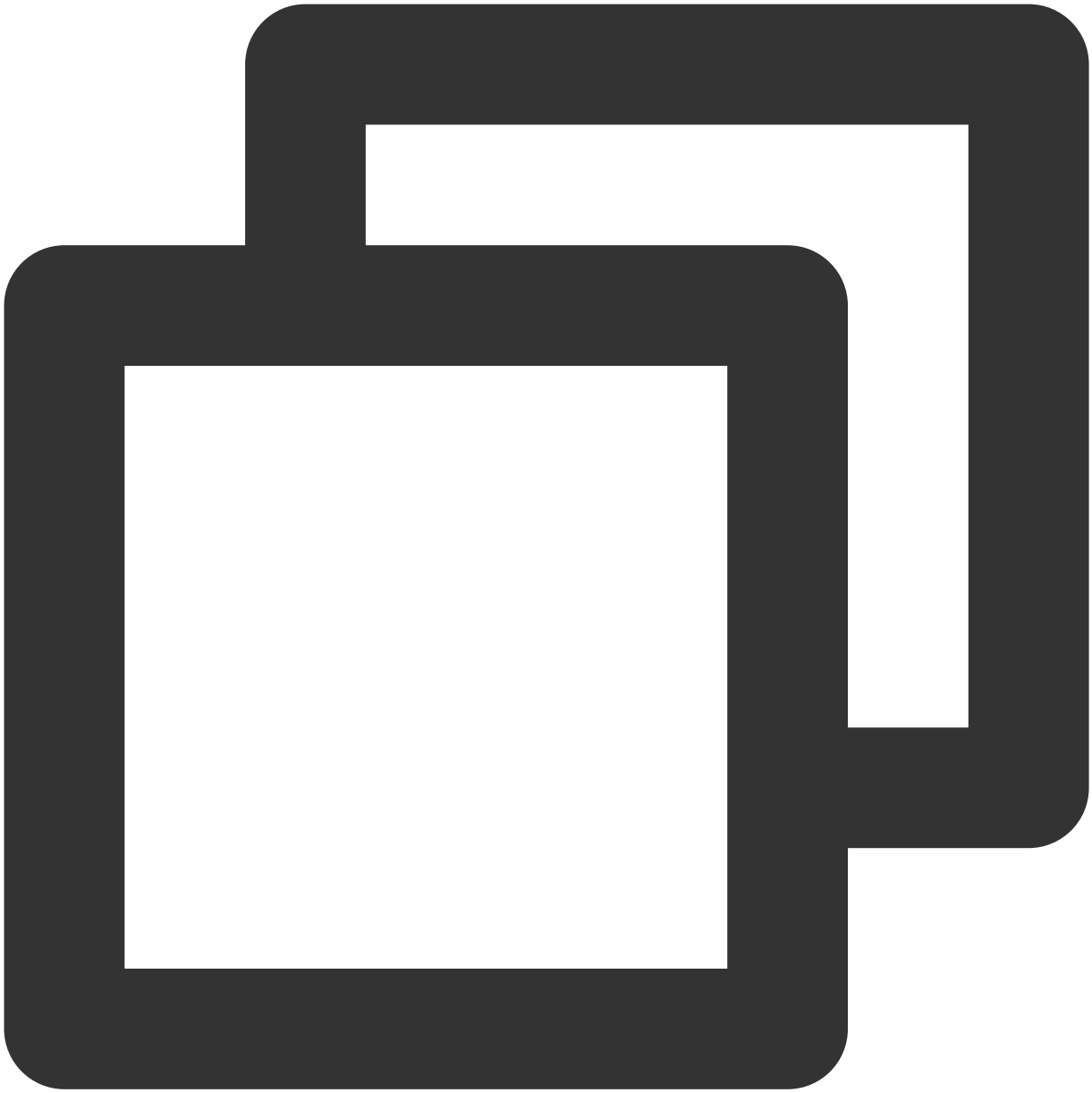
Request



```
PUT /?logging HTTP 1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Mar 2017 09:45:46 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj****&q-si
Content-Type: application/xml
Content-Length: 147

<BucketLoggingStatus>
  <LoggingEnabled>
```

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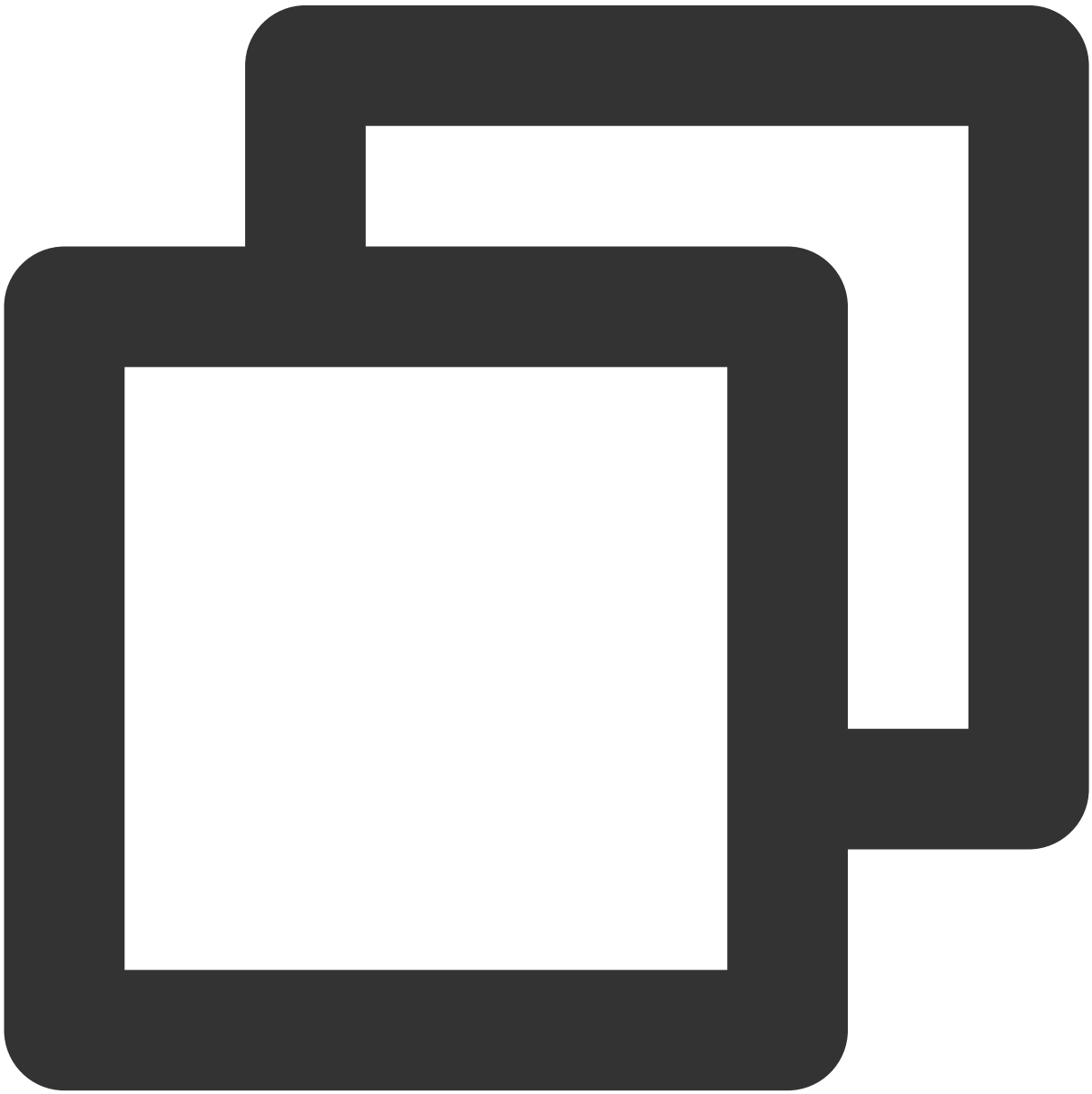
```
    <TargetBucket>examplebucket-1250000000</TargetBucket>
    <TargetPrefix>prefix</TargetPrefix>
  </LoggingEnabled>
</BucketLoggingStatus>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
```

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```
Date: Fri, 10 Mar 2017 09:45:46 GMT
Server: tencent-cos
x-cos-request-id: NTg4MDdiZWRfOWExZjRlXzQ2OWVf****
```

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GET Bucket logging

Last updated：2024-03-28 18:12:17

Overview

This API is used to query the logging configuration of a source bucket.

Note:

Only the owner of the source bucket has permission to call this API.

Request

Sample request

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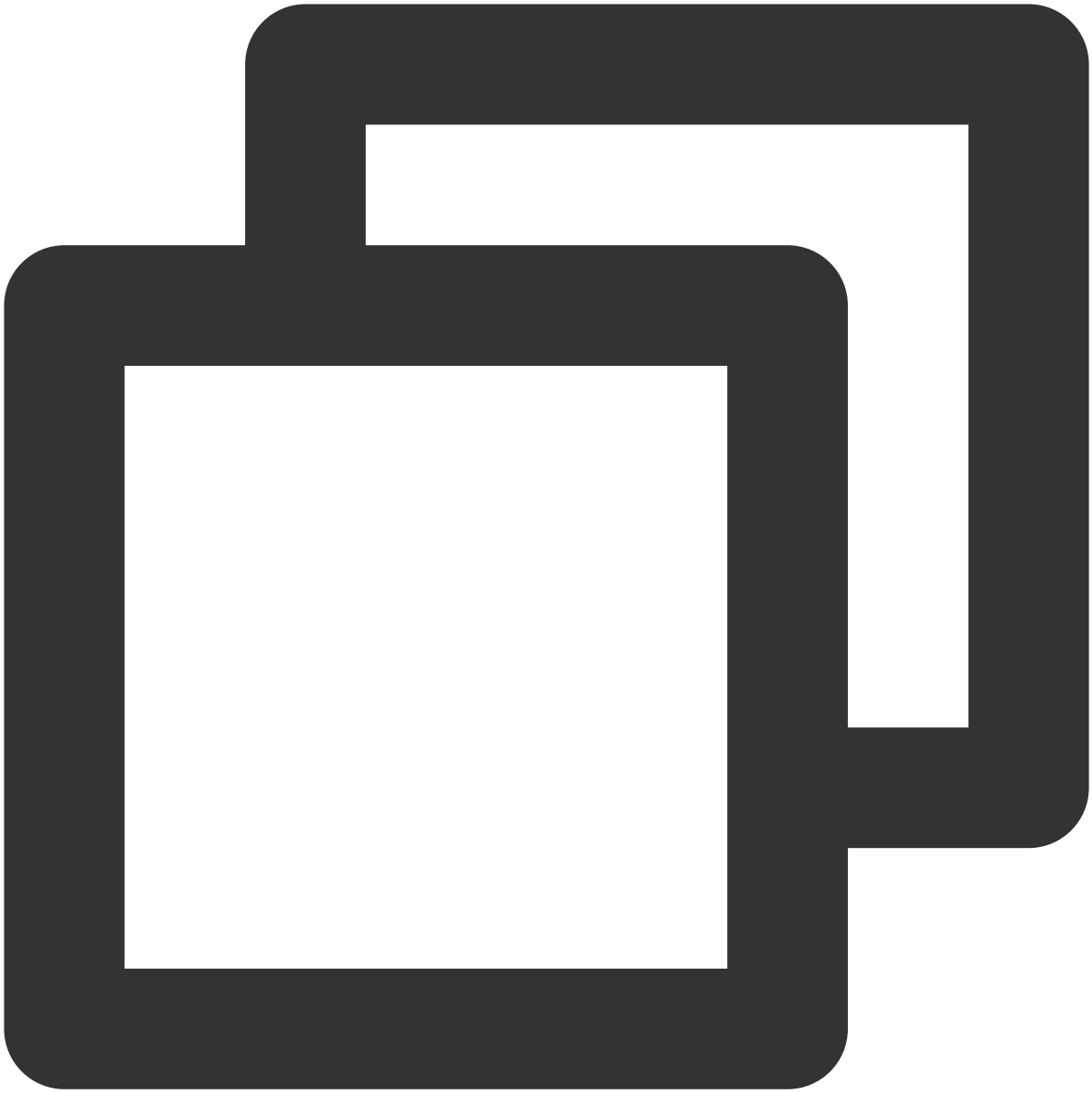

```
GET /?logging HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only uses Common Response Headers.

Response body

The response body returns **application**/**xml** data. The following contains all the nodes:

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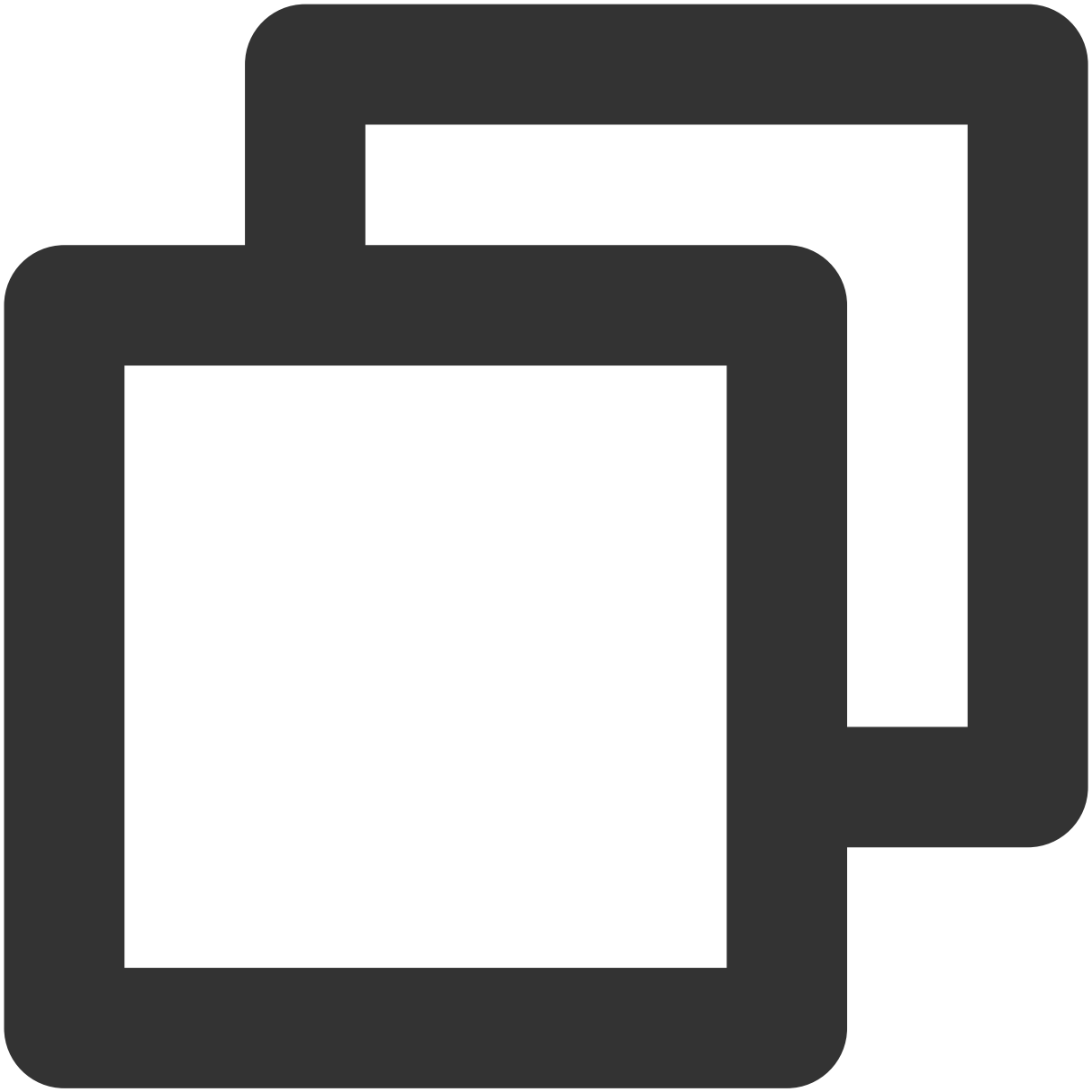

```
<BucketLoggingStatus>
  <LoggingEnabled>
    <TargetBucket>examplebucket-1250000000</TargetBucket>
    <TargetPrefix>prefix</TargetPrefix>
  </LoggingEnabled>
</BucketLoggingStatus>
```

The nodes are as follows: table th:nth-of-type(1) { width: 200px; }

Node Name (Keyword)	Parent Node	Description	Type

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BucketLoggingStatus	None	Logging status of the bucket	Container

Content of `BucketLoggingStatus` :

Node Name (Keyword)	Parent Node	Description	Type
LoggingEnabled	BucketLoggingStatus	Detailed configuration of bucket logging	Container

Content of `LoggingEnabled` :

Node Name (Keyword)	Parent Node	Description	Type
TargetBucket	LoggingEnabled	Destination bucket that stores logs. It can be a bucket under the same account or in the same region as the source bucket, or the source bucket itself (not recommended).	String
TargetPrefix	LoggingEnabled	Path in the destination bucket that stores logs	String

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

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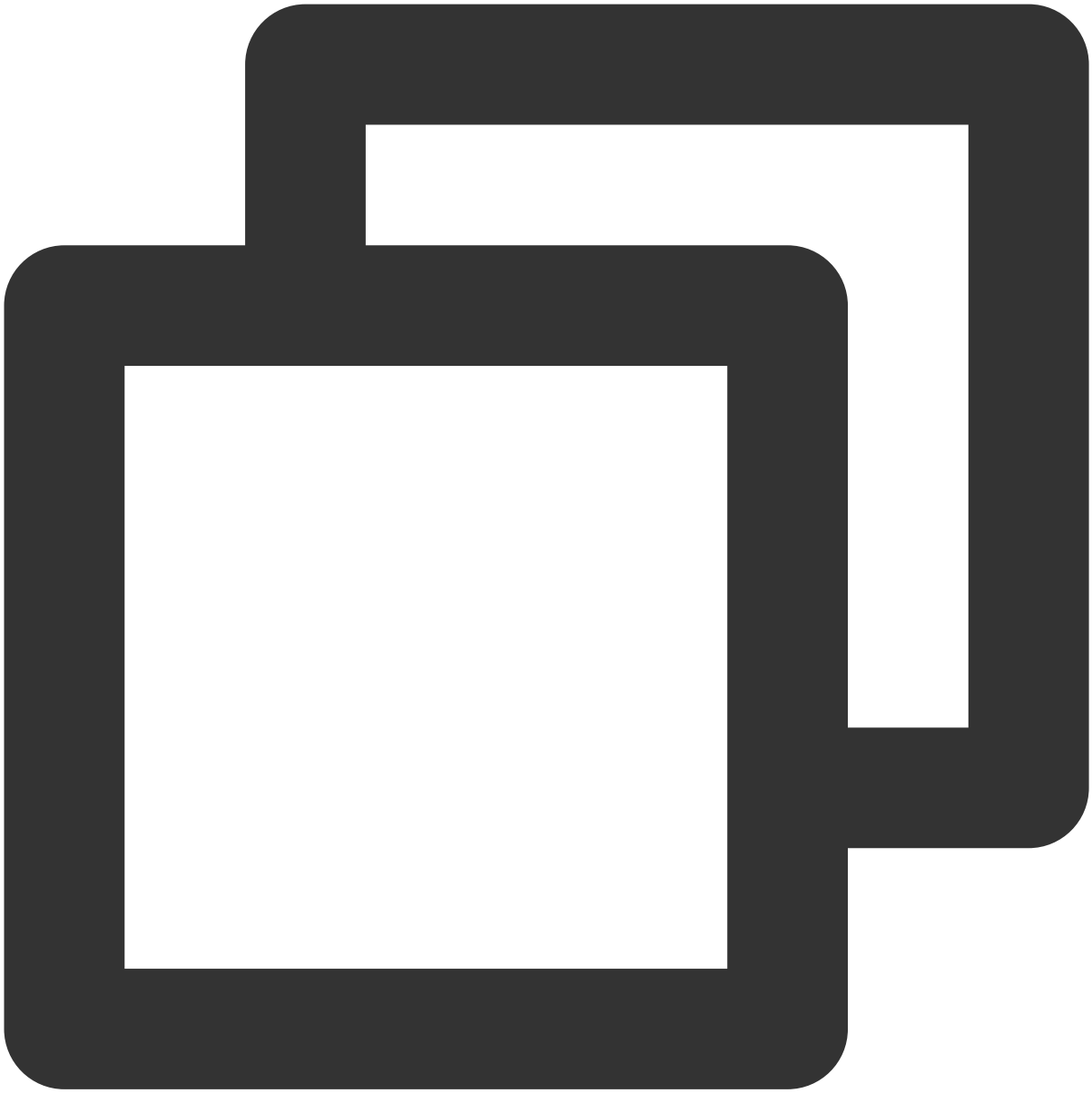

```
GET /?logging HTTP 1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 28 Oct 2017 21:32:00 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5O****&q-sign-time=1484815944
```

Response

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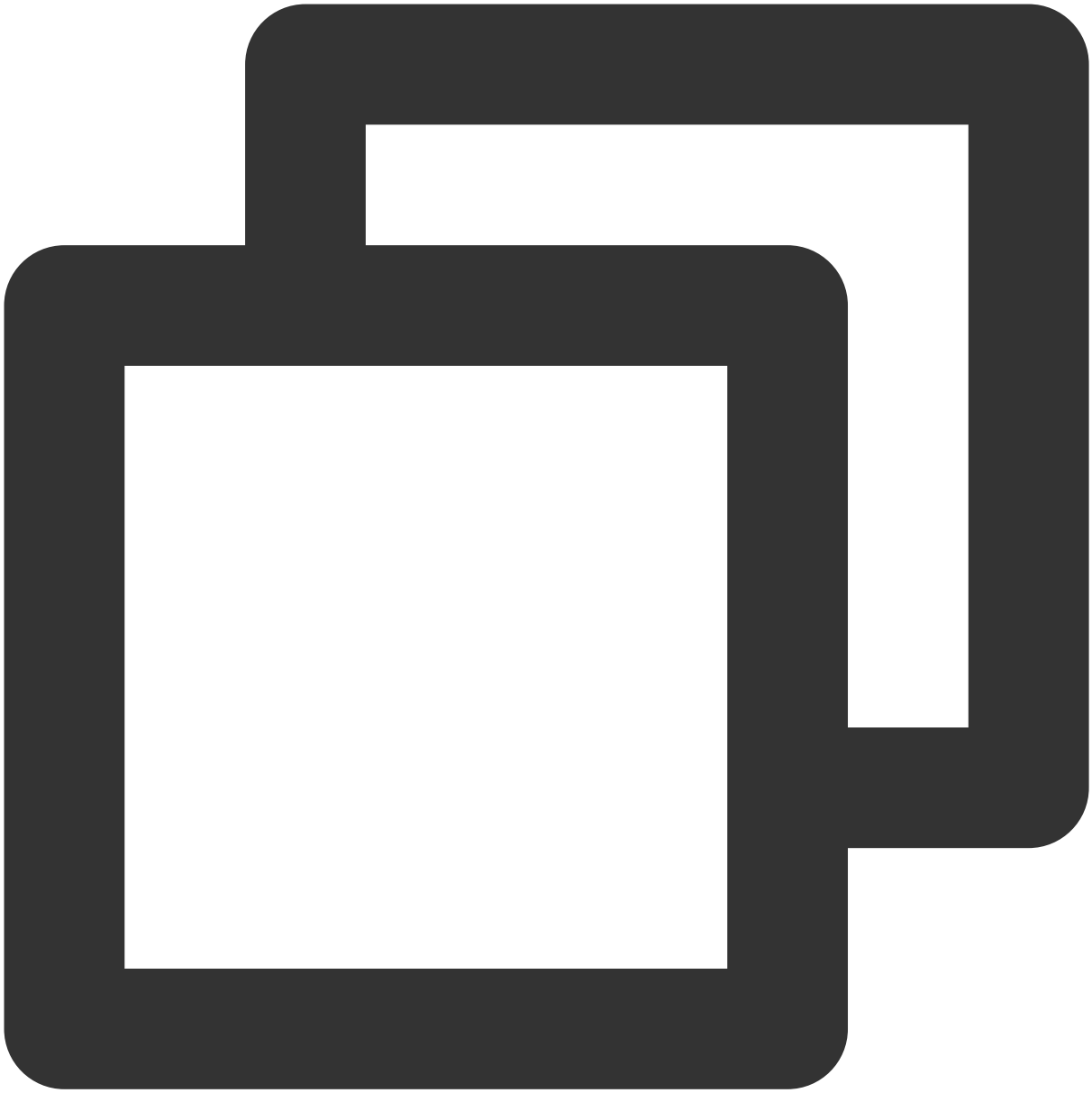

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 142
Connection: keep-alive
Date: Wed, 28 Oct 2017 21:32:00 GMT
Server: tencent-cos
x-cos-request-id: NTg4MDdlNGZfNDYyMDRlXzM0YWFf****

<BucketLoggingStatus>
  <LoggingEnabled>
    <TargetBucket>examplebucket-1250000000</TargetBucket>
```

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```
    <TargetPrefix>prefix</TargetPrefix>
  </LoggingEnabled>
</BucketLoggingStatus>
```

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Global Acceleration (Accelerate)
PUT Bucket Accelerate

Last updated：2024-03-28 18:12:17

Overview

This API is used to enable or suspend global acceleration for a bucket.

Notes

1. If you have never enabled global acceleration for the bucket, the global acceleration status will not be returned even if you call this API.
2. Once enabled, global acceleration can only be suspended but cannot be disabled.
3. Valid values of global acceleration `Status` are `Enabled` and `Suspended` .
4. If a sub-account needs to set global acceleration for a bucket, it needs to have permission to write the configuration.

Request

Sample request

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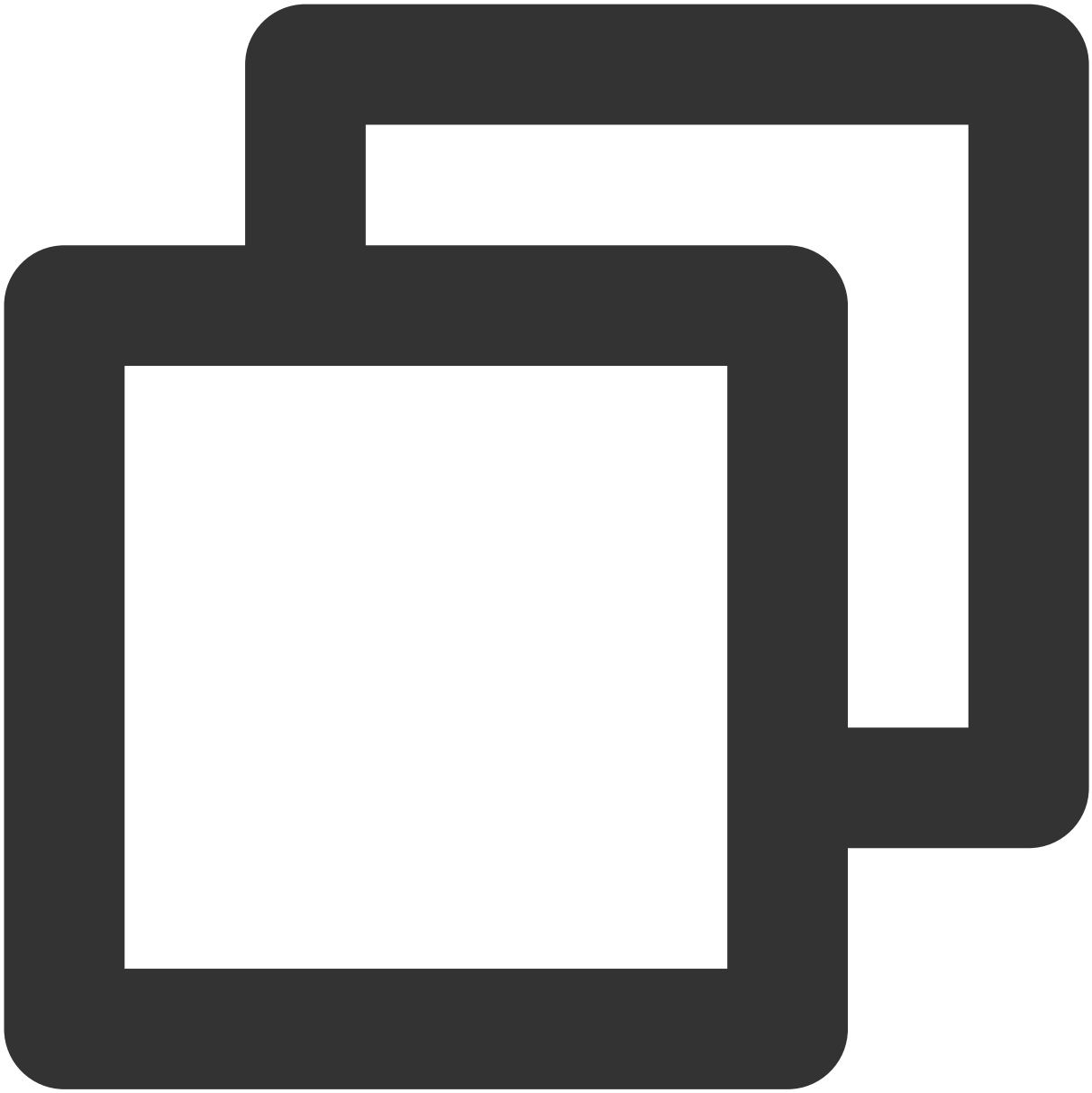

```
PUT /?accelerate HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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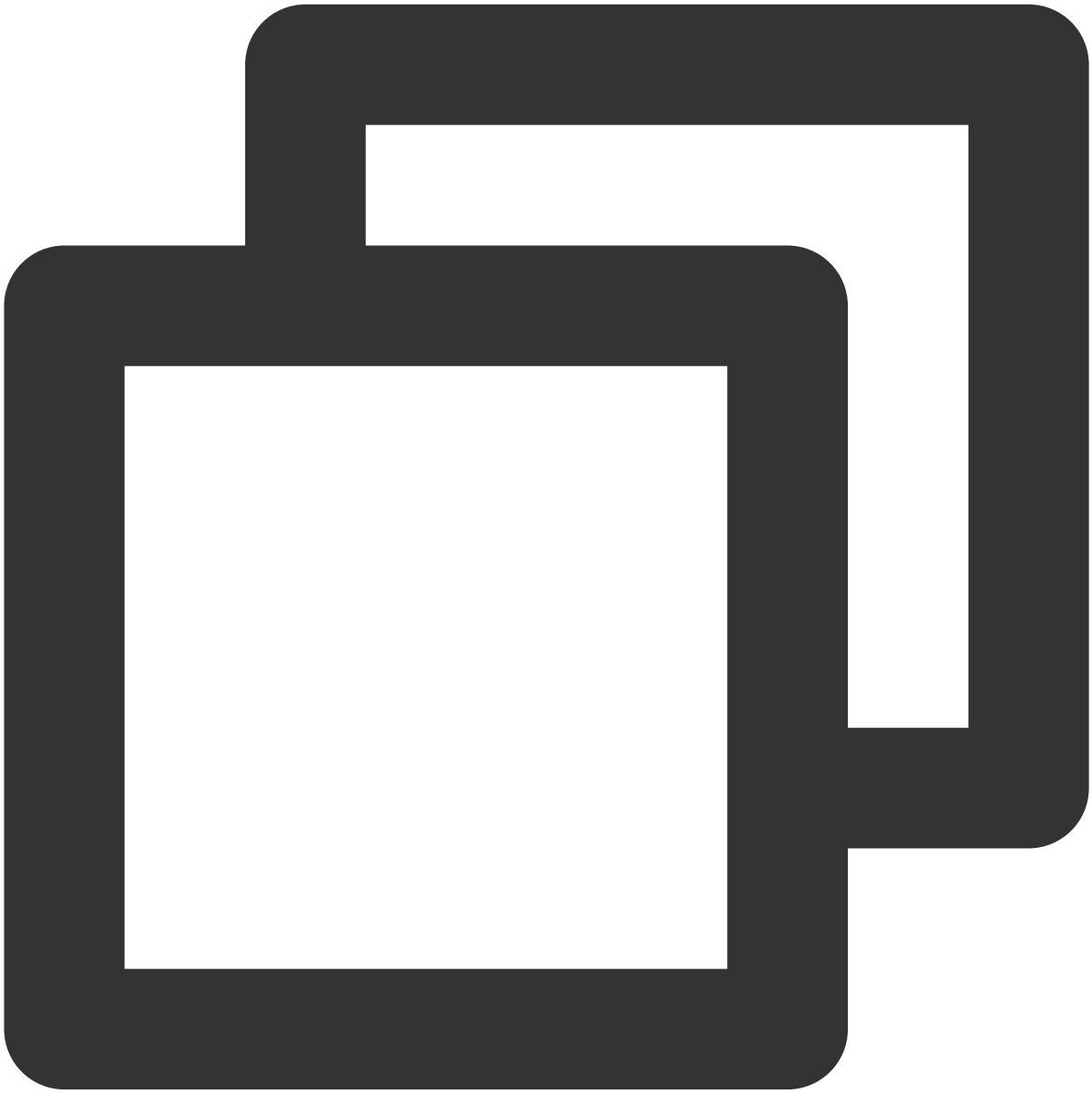
and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request body



```
<AccelerateConfiguration xmlns="cos xmlns/">
```

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```
  <Status>Enabled</Status>
</AccelerateConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
AccelerateConfiguration	None	Information about global acceleration	Container
Status	AccelerateConfiguration	Whether to enable global acceleration. Enumerated values: `Suspended`, `Enabled`	Enum

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Example

Request

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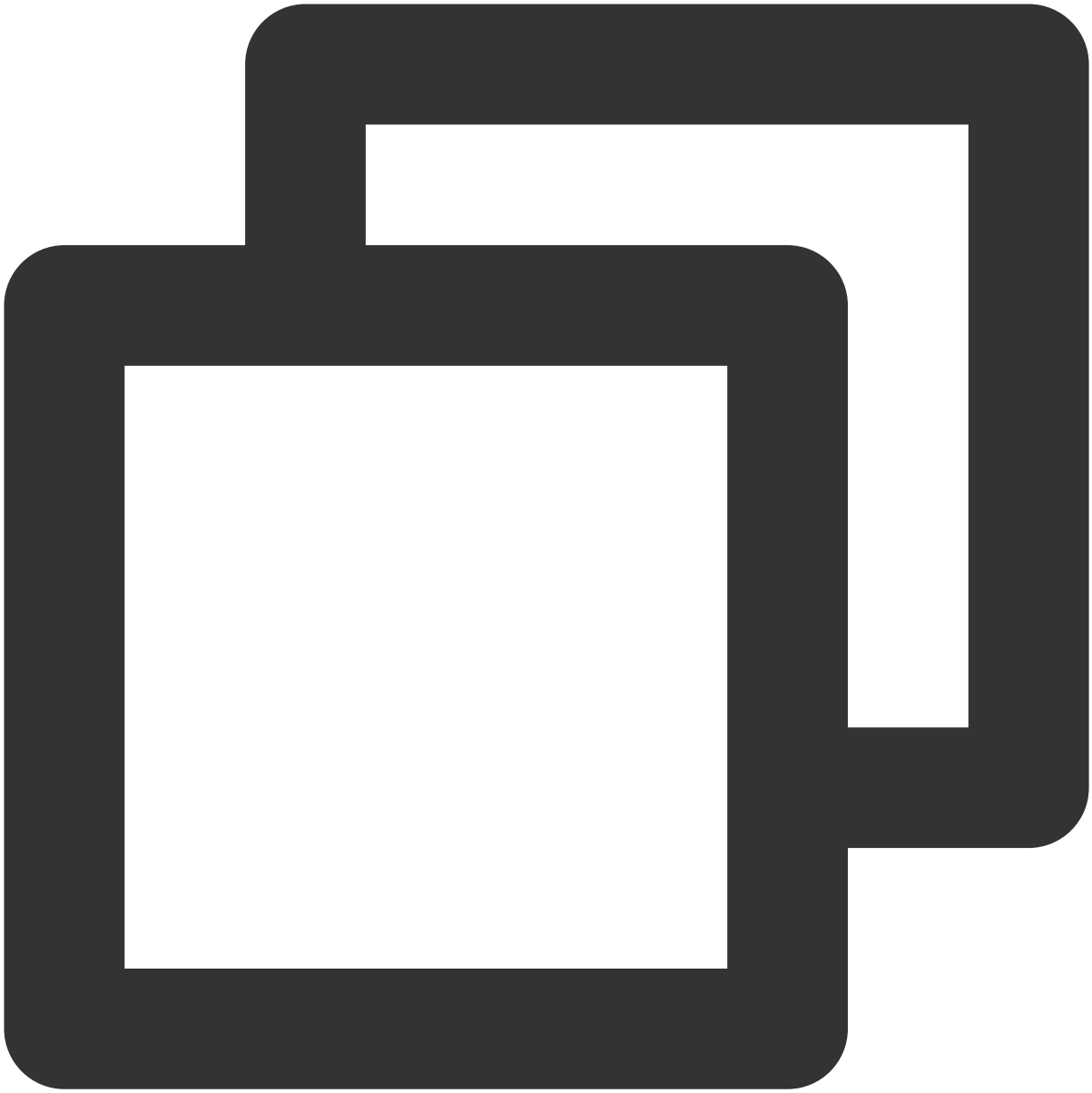

```
PUT /?accelerate HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Connection: keep-alive
Authorization: authorization string
Content-Type: text/plain
Content-Length: 83

<AccelerateConfiguration>
    <Status>Enabled</Status>
</AccelerateConfiguration>
```

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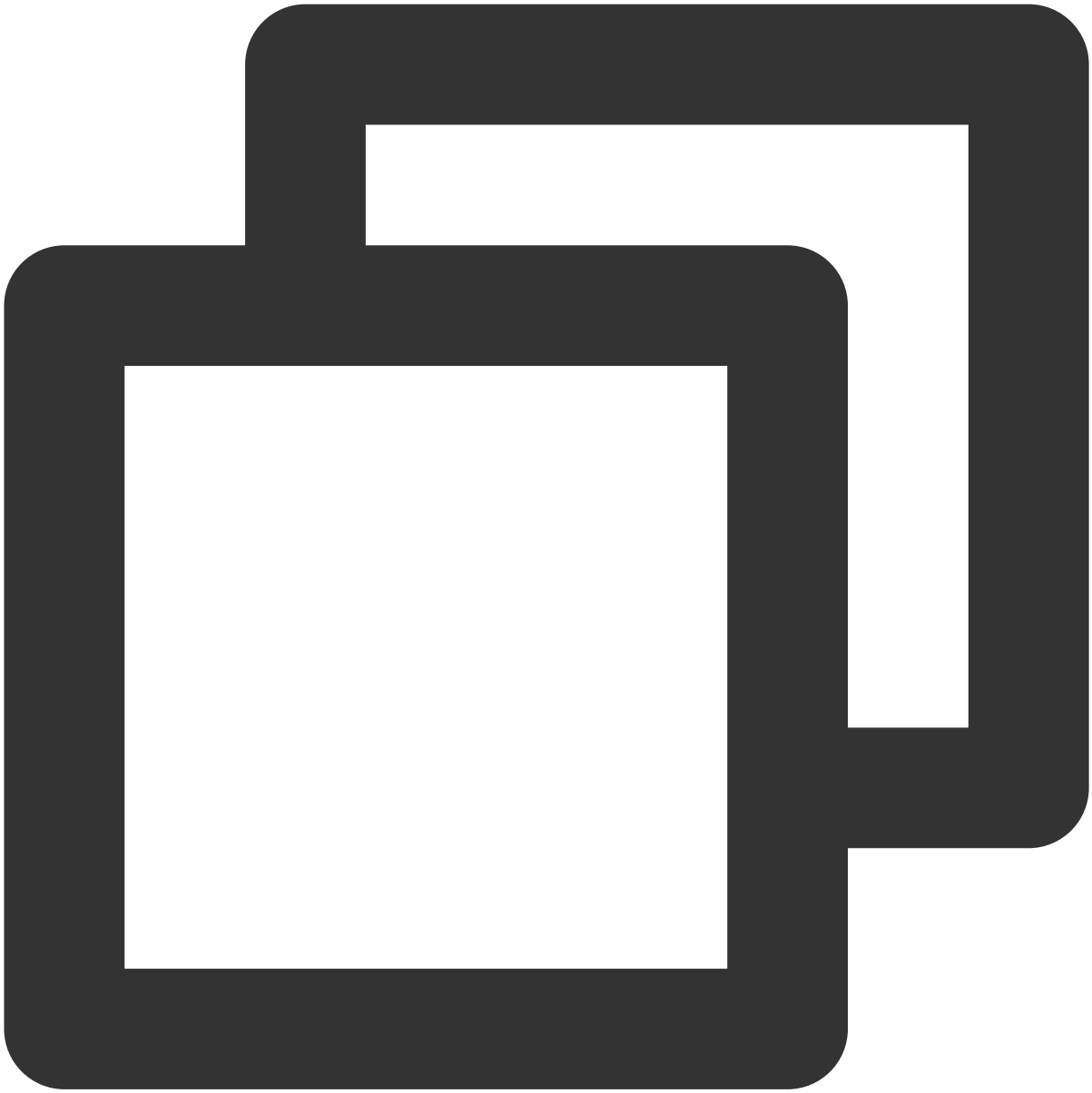
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Wed, 23 Aug 2019 08:14:53 GMT
Server: tencent-cos
x-cos-request-id: NTk5ZDM5N2RfMjNiMjM1MGFfMmRiX2Y0****
```

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GET Bucket Accelerate

Last updated：2024-03-28 18:12:17

Overview

This API is used to query the global acceleration configuration of a bucket.

Notes

1. If you have never enabled global acceleration for the bucket, the global acceleration status will not be returned even if you call this API.
2. Valid values of `Status` are `Enabled` and `Suspended` .
3. If a sub-account needs to call this API, it needs to have permission to read the global acceleration configuration.

Request

Sample request

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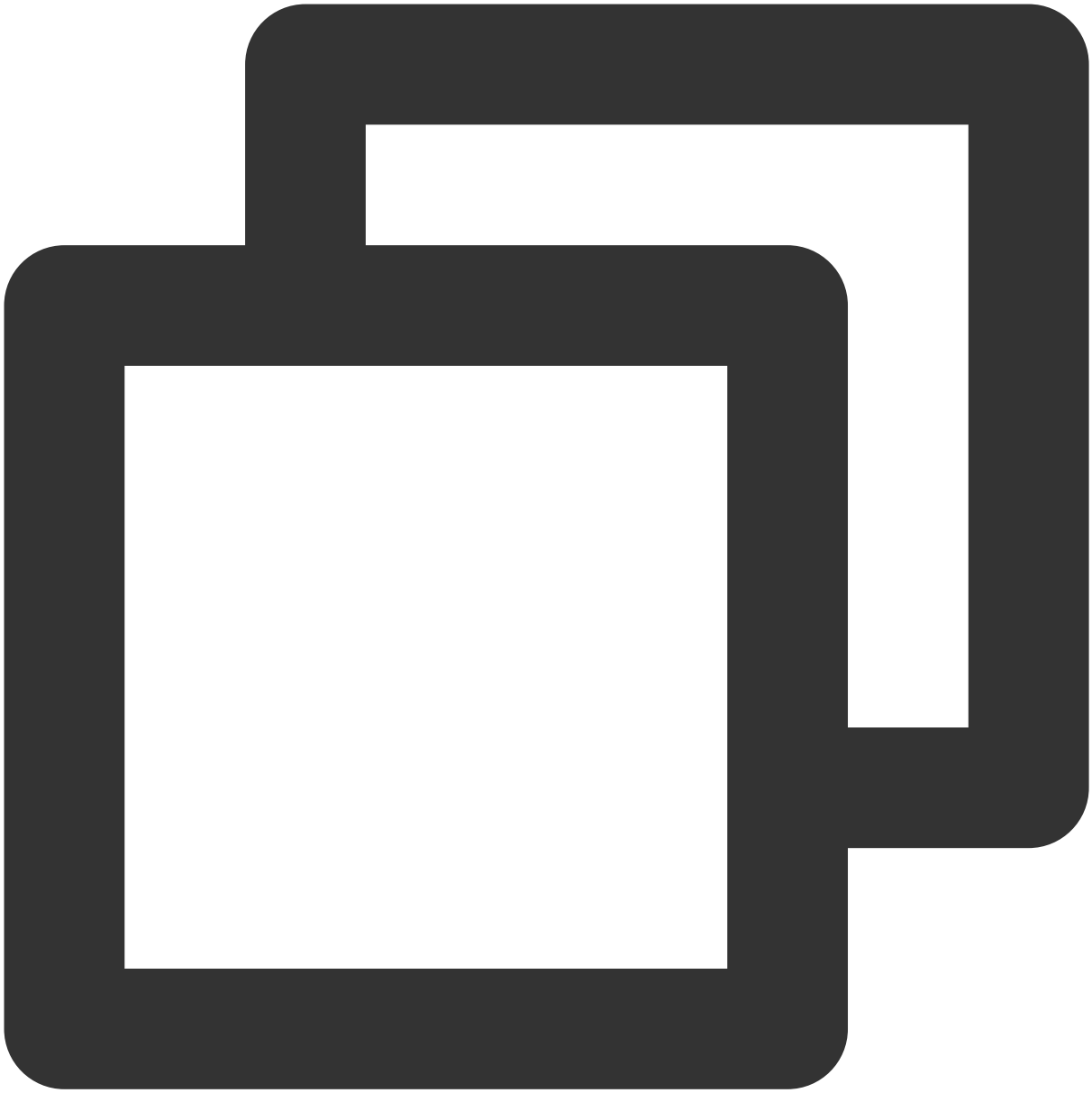

```
GET /?accelerate HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

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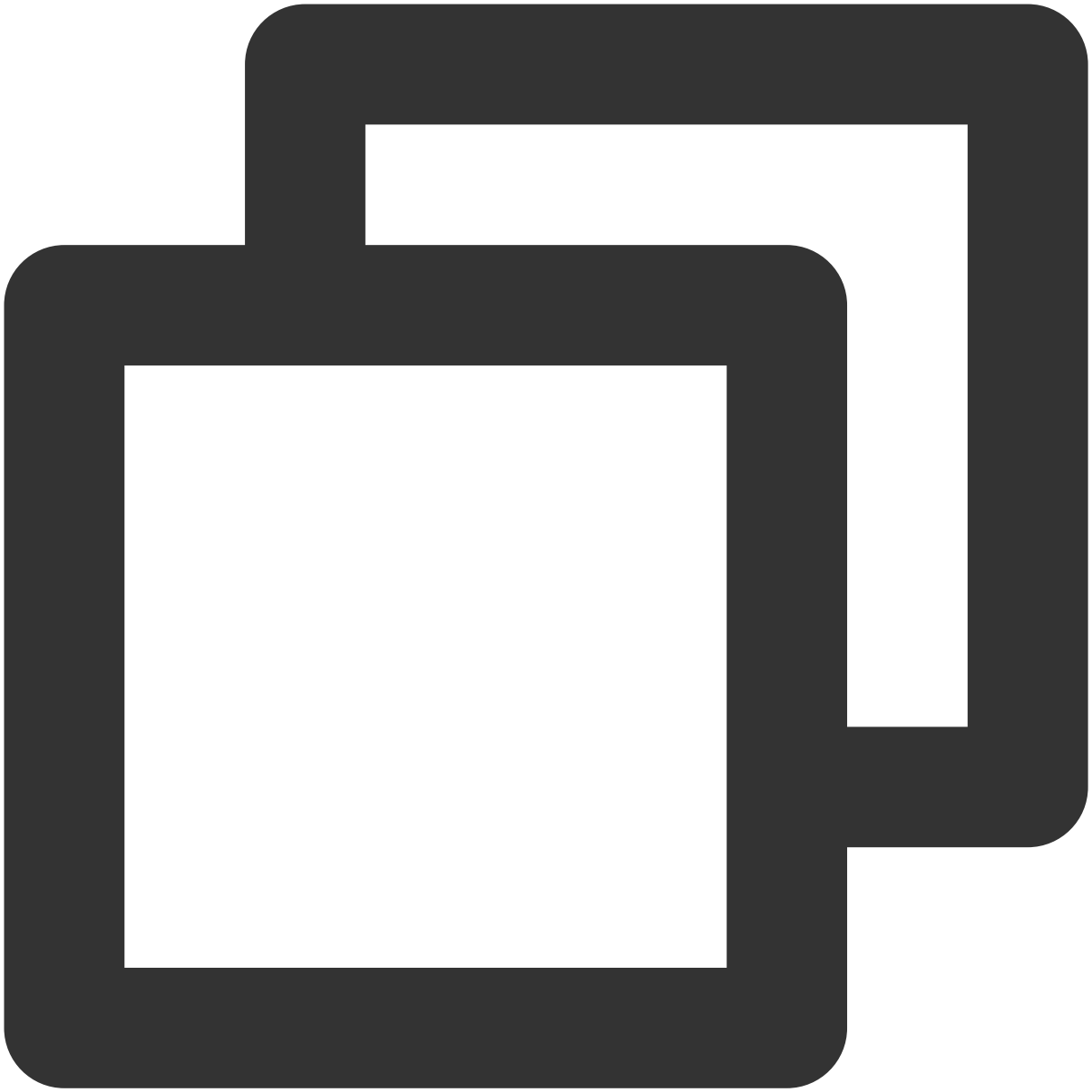

```
<AccelerateConfiguration xmlns="cos xmlns/">
  <Status>Enabled</Status>
  <Type>COS</Type>
</AccelerateConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
AccelerateConfiguration	None	Information about global acceleration	Container

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Status	AccelerateConfiguration	Whether global acceleration is enabled. Enumerated values: `Suspended`, `Enabled`	Enum
Type	AccelerateConfiguration	Global acceleration type. Enumerated value: `COS`	Enum

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

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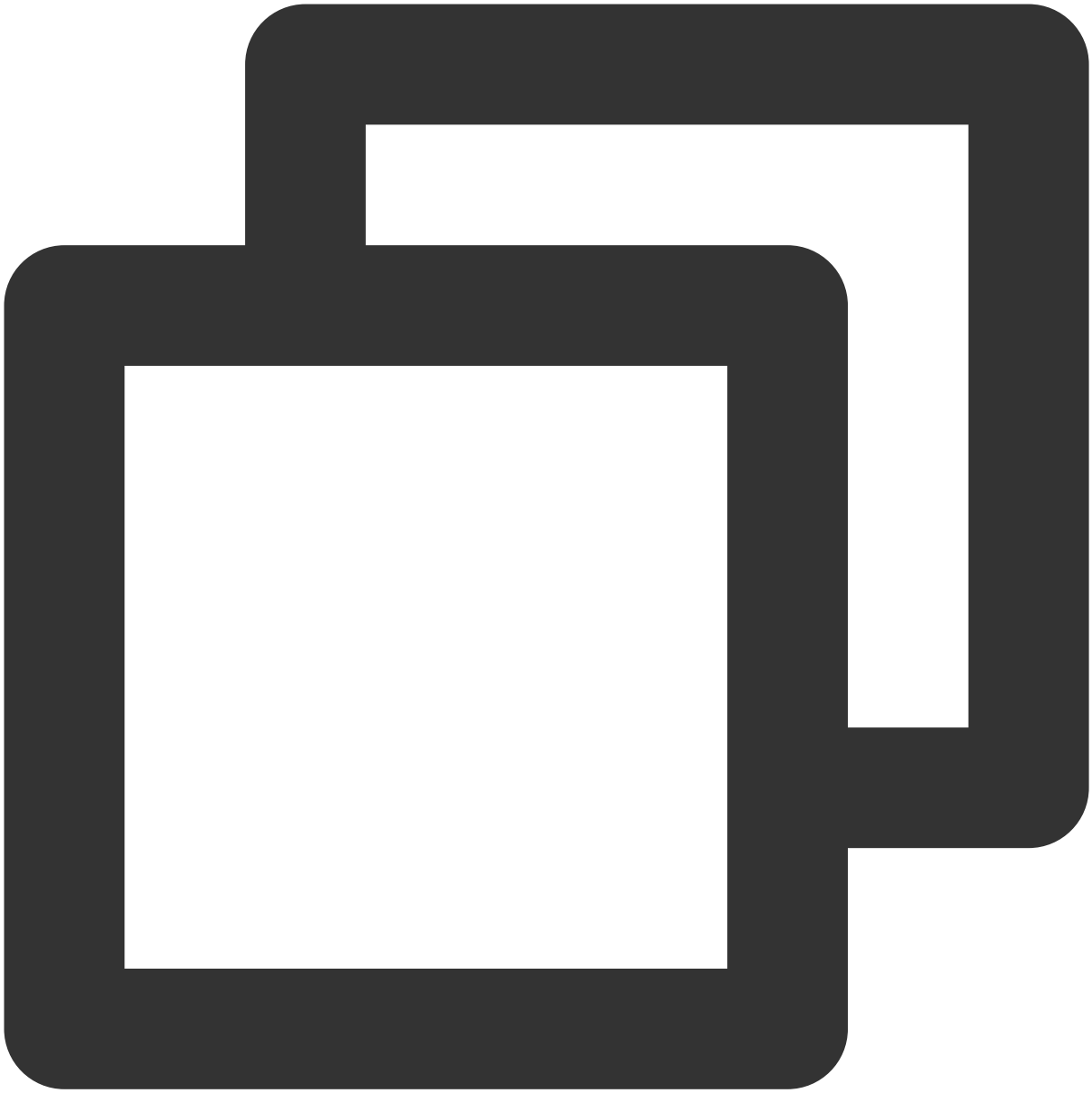

```
GET /?accelerate HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Connection: keep-alive
Authorization: authorization string
Content-Type: text/plain
```

Response 1 (global acceleration enabled)

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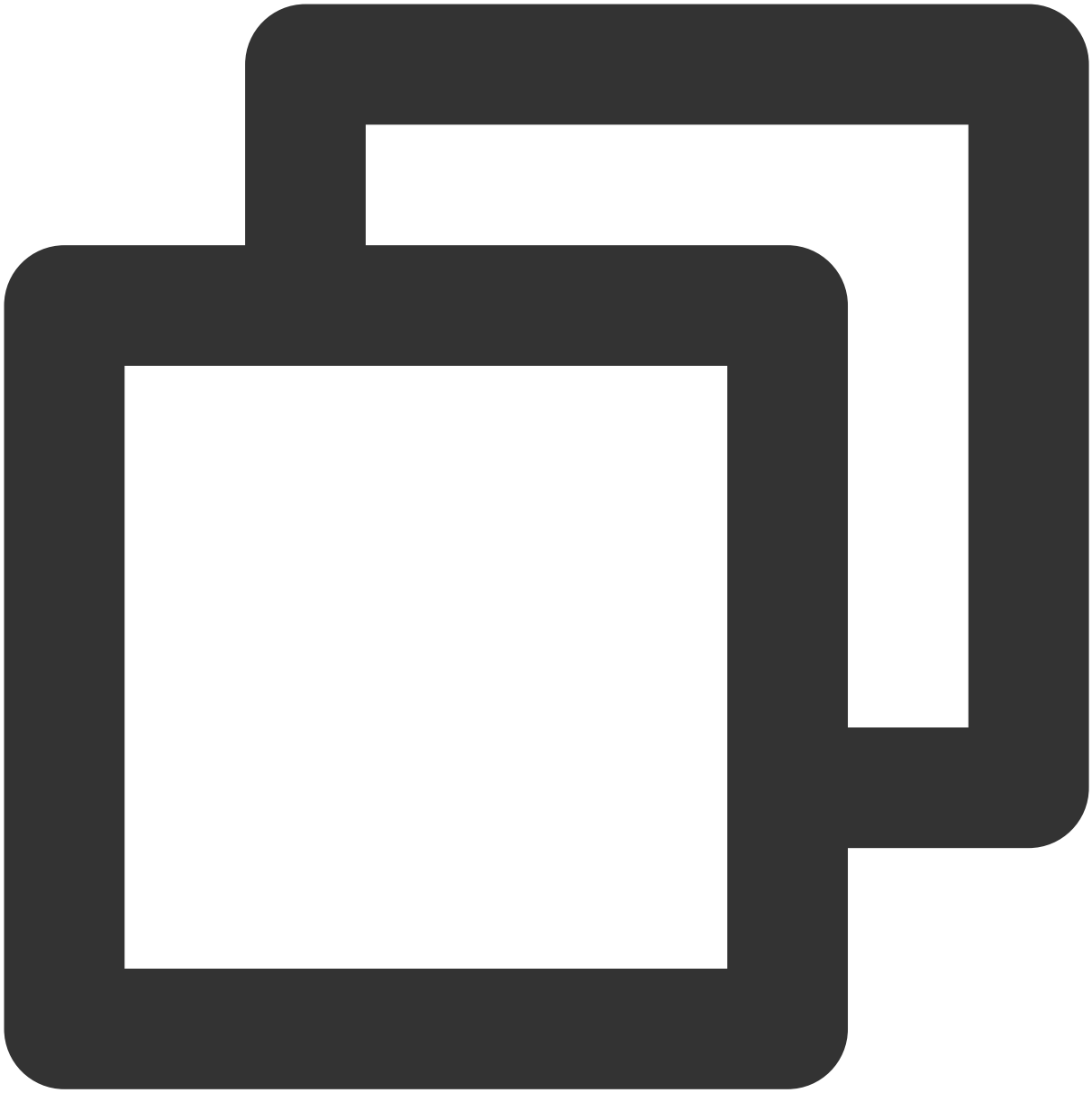

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 73
Connection: keep-alive
Date: Wed, 23 Aug 2019 08:14:53 GMT
Server: tencent-cos
x-cos-request-id: NTk5ZDM5N2RfMjNiMjM1MGFfMmRiX2Y0****

<AccelerateConfiguration>
  <Status>Enabled</Status>
  <Type>COS</Type>
```

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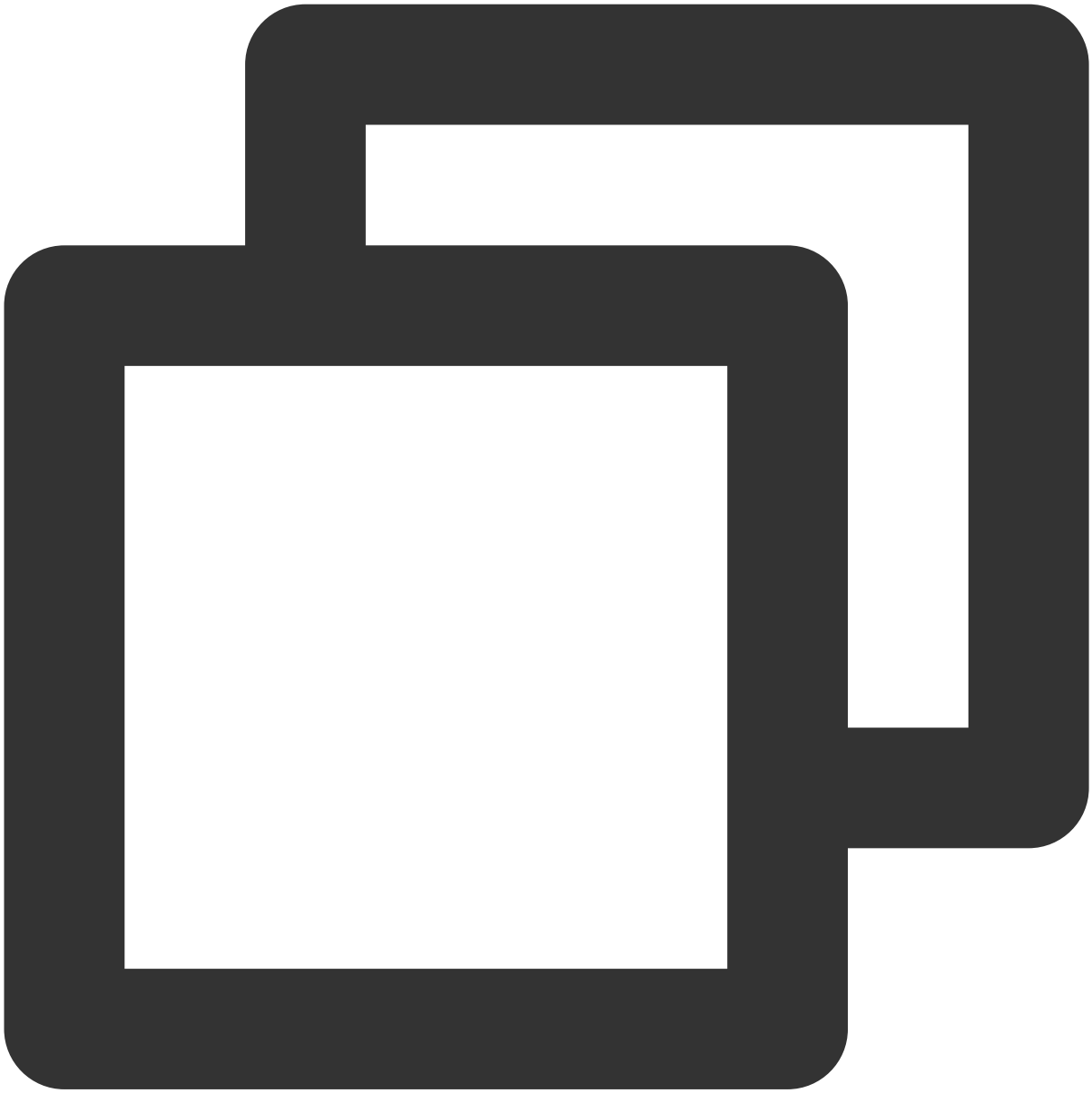
```
</AccelerateConfiguration>
```

Response 2 (global acceleration suspended)



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 73
Connection: keep-alive
Date: Wed, 23 Aug 2019 08:14:53 GMT
Server: tencent-cos
x-cos-request-id: NTk5ZDM5N2RfMjNiMjM1MGFfMmRiX2Y0****
```

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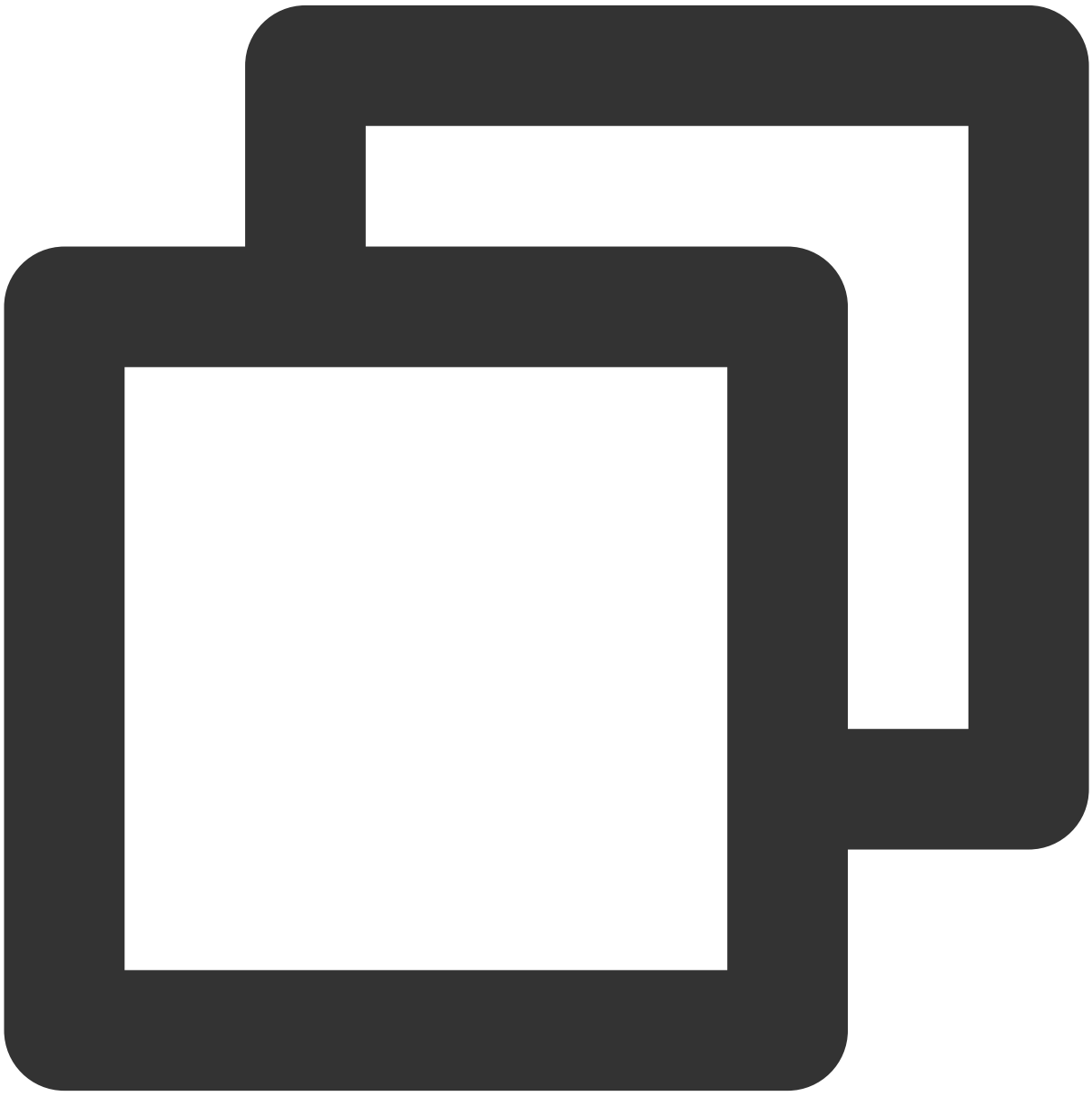
```
<AccelerateConfiguration>
  <Status>Disabled</Status>
  <Type>COS</Type>
</AccelerateConfiguration>
```

Response 3 (global acceleration not enabled)



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 73
```

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```
Connection: keep-alive
Date: Wed, 23 Aug 2019 08:14:53 GMT
Server: tencent-cos
x-cos-request-id: NTk5ZDM5N2RfMjNiMjM1MGFfMmRiX2Y0****

<AccelerateConfiguration/>
```

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Bucket Encryption (encryption)
PUT Bucket encryption

Last updated：2024-03-28 18:12:17

Feature Description

This API is used to set the default encryption configuration for a bucket.
To call this API, you must have the `PutBucketEncryption` permission. By default, the bucket owner has permission to use this API and can grant such permission to other users.

Request

Sample request

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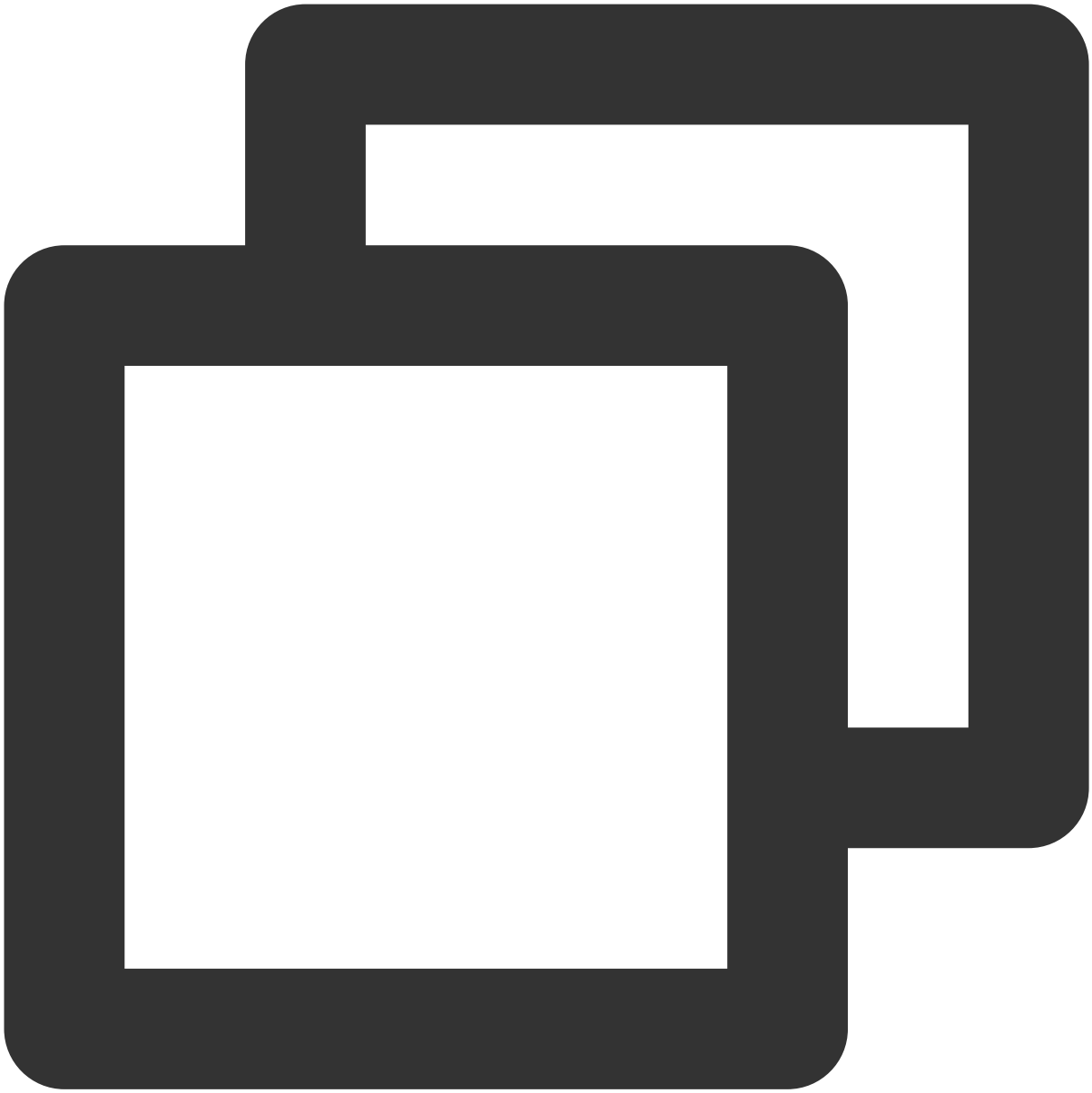

```
PUT /?encryption HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host: <BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the bucket name followed by the `APPID` , such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

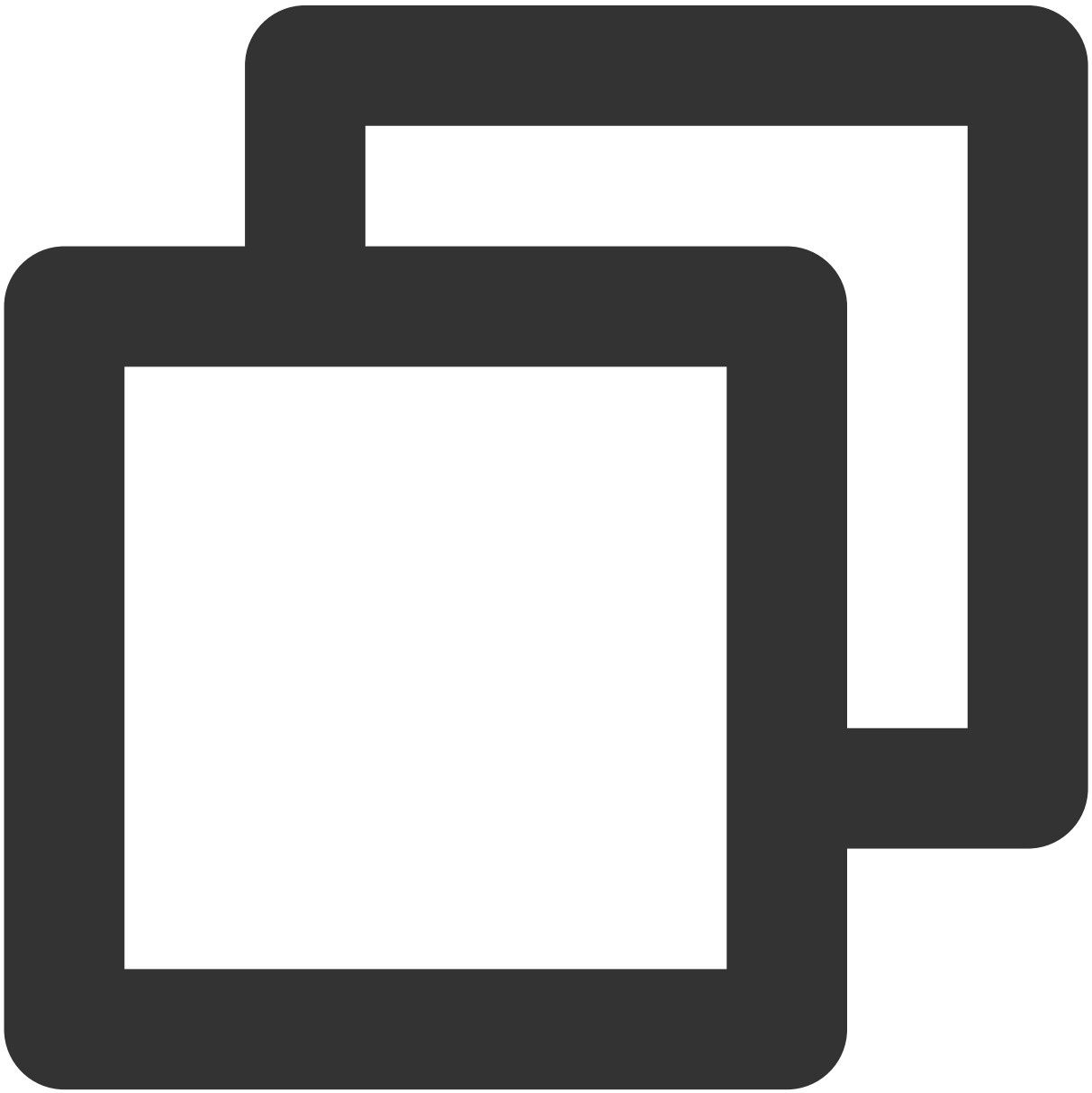
Request headers

This API only uses Common Request Headers.

Request Body

You can configure the default encryption in the request body using the XML markup language. The configuration mainly includes the encryption item.

The following request body sets SSE-COS as the default encryption:



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```
<ServerSideEncryptionConfiguration>
      <Rule>
         <ApplyServerSideEncryptionByDefault>
             <SSEAlgorithm>AES256|KMS</SSEAlgorithm>
             <KMSMasterKeyID>String</KMSMasterKeyID>
         </ApplyServerSideEncryptionByDefault>
      </Rule>
</ServerSideEncryptionConfiguration>
```

The nodes are described as follows:

Node	Parent Node
ServerSideEncryptionConfiguration	None
Rule	ServerSideEncryptionConfiguration
ApplyServerSideEncryptionByDefault	ServerSideEncryptionConfiguration.Rule
SSEAlgorithm	ServerSideEncryptionConfiguration.Rule.ApplyServerSideEncryptionByDe
KMSMasterKeyID	ServerSideEncryptionConfiguration.Rule.ApplyServerSideEncryptionByDe

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Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error Code

This API returns common error responses and error codes. For more information, see Error Codes.

Samples

Request

The following example sets SSE-COS as the default encryption for the `examplebucket-1250000000` bucket.

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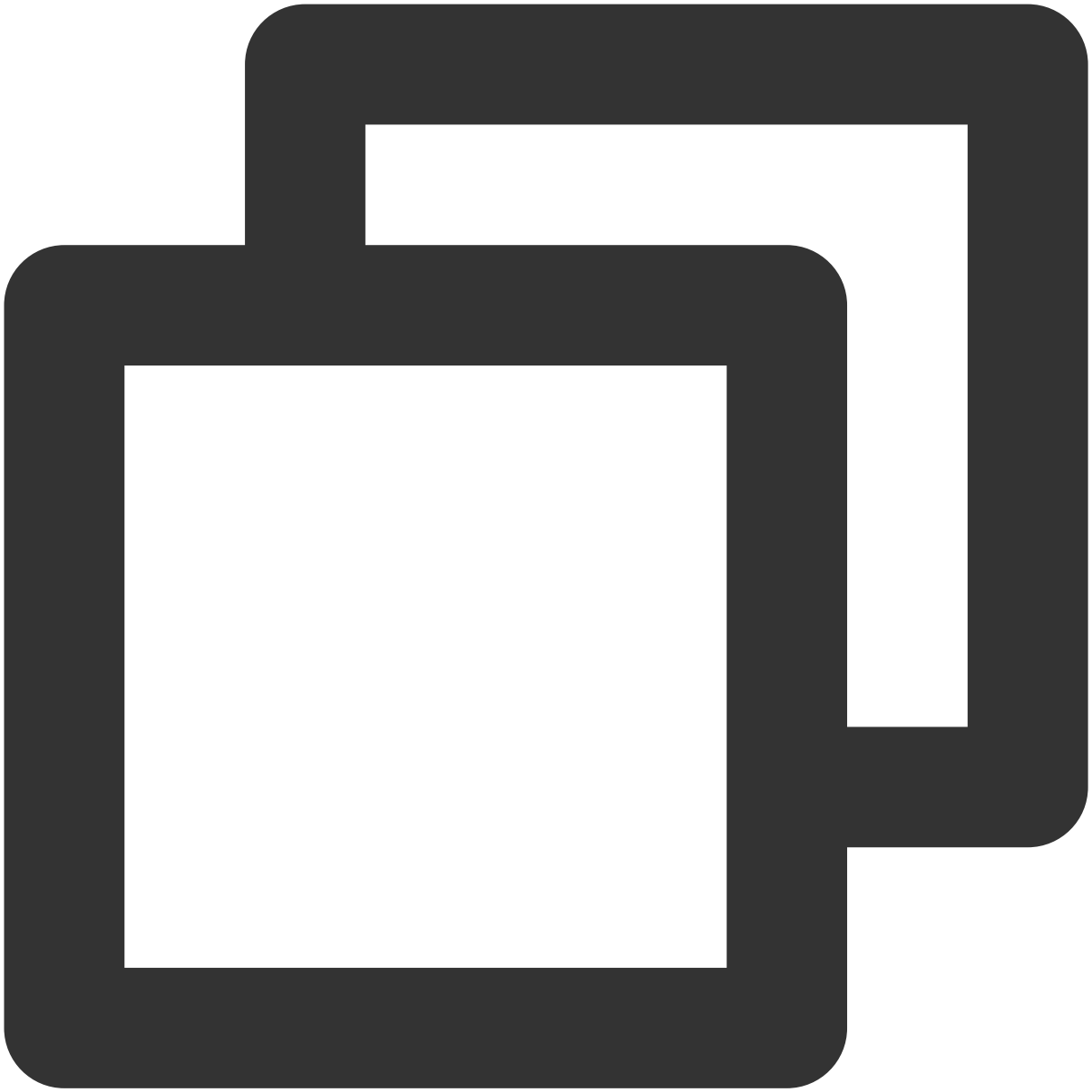

```
PUT /?encryption HTTP 1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Mon, 17 Jun 2019 08:37:35 GMT
Authorization: signatureValue



<ServerSideEncryptionConfiguration>
      <Rule>
         <ApplyServerSideEncryptionByDefault>
             <SSEAlgorithm>AES256</SSEAlgorithm>
```

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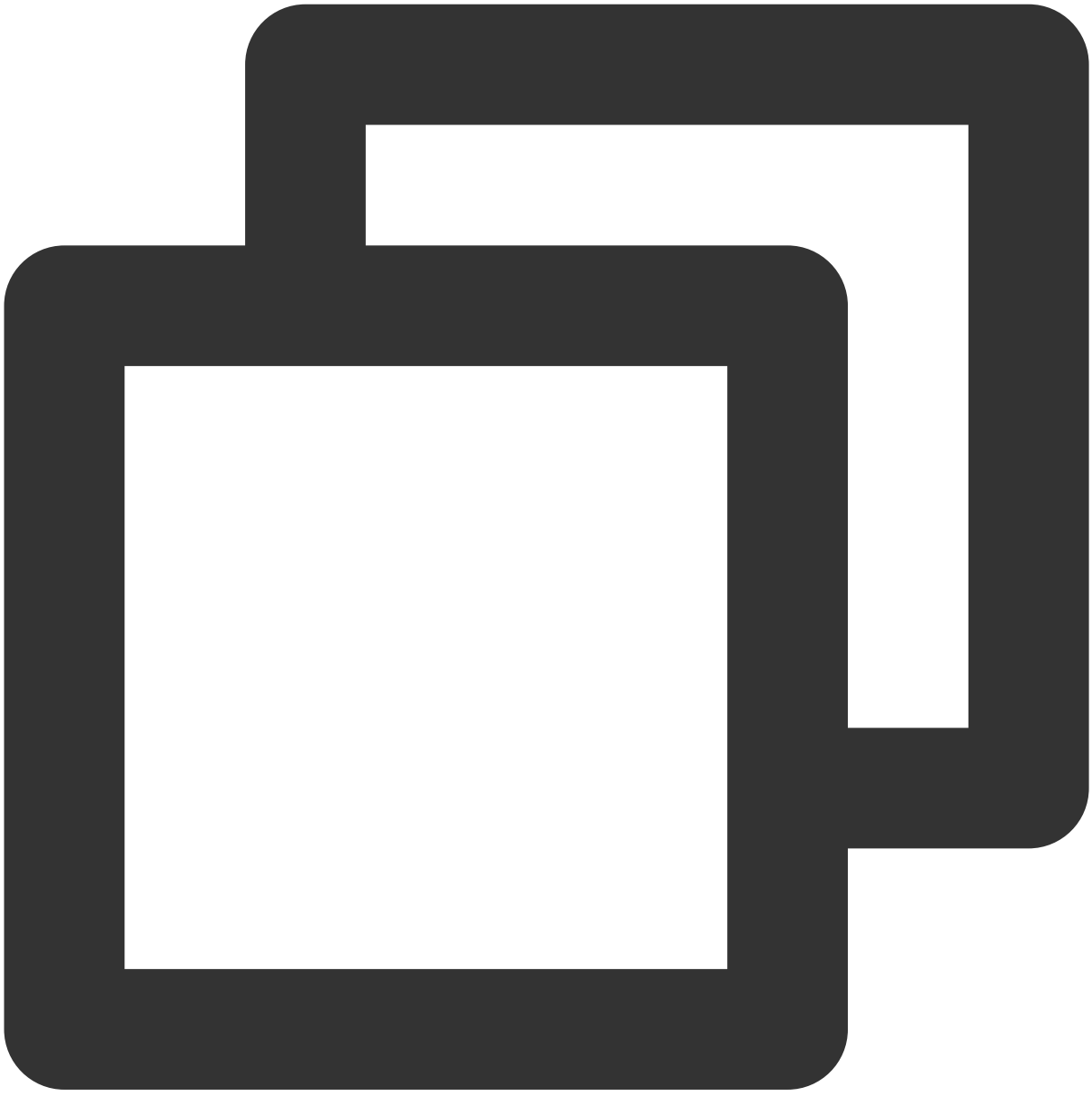
```
        </ApplyServerSideEncryptionByDefault>
    </Rule>
</ServerSideEncryptionConfiguration>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Mon, 17 Jun 2019 08:37:36 GMT
Server: tencent-cos
x-cos-request-id: NWQwNzUxNTBfMzdiMDJhMDlfOWM0Nl85NDFk****
```

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GET Bucket encryption

Last updated：2024-03-28 18:12:17

Feature Description

This API is used to query the default encryption configuration of a specified bucket.
To call this API, you need to have the `GetBucketEncryption` permission. By default, the bucket owner has permission to call this API and can grant this permission to other users.

Request

Sample request

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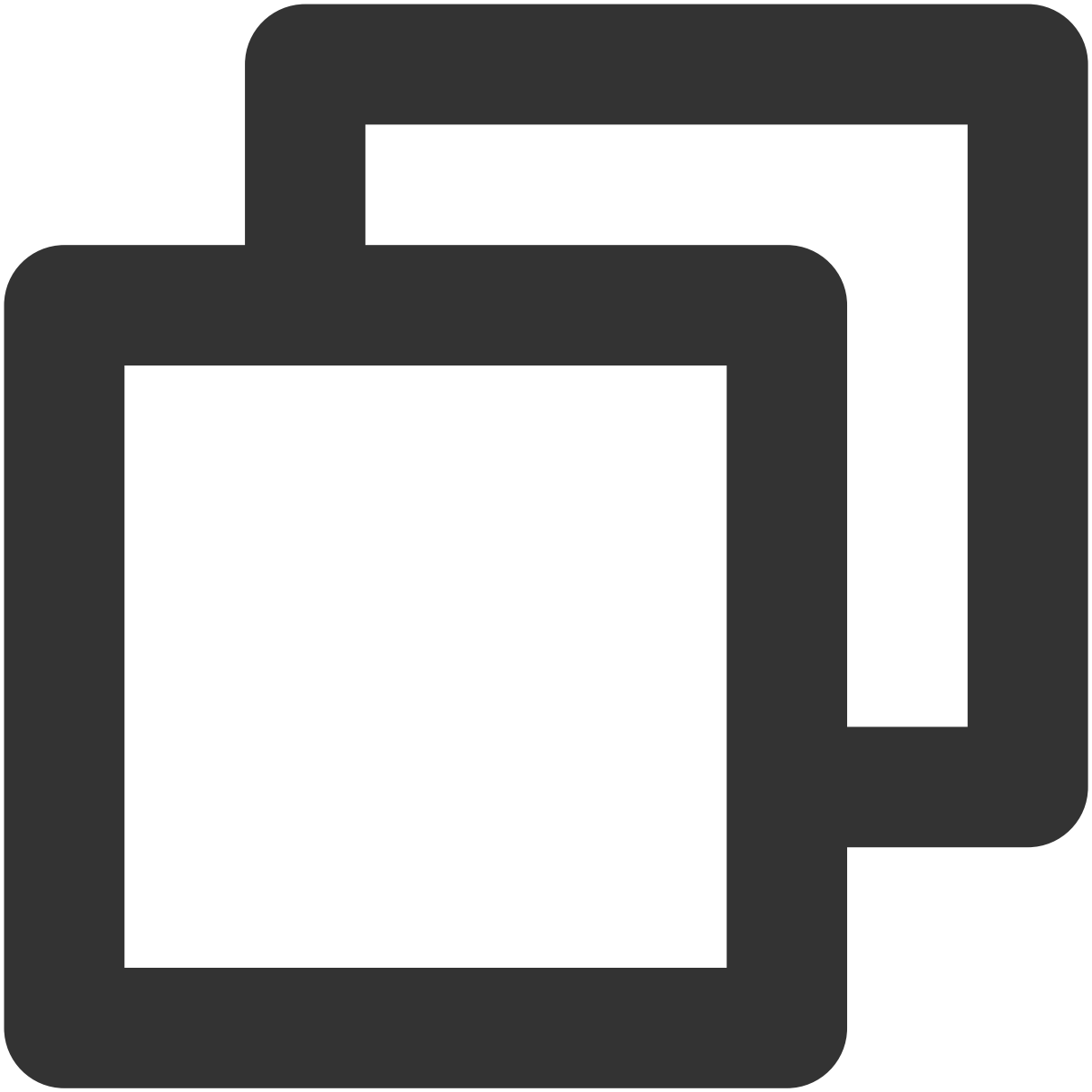

```
GET /?encryption HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host: <BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the bucket name followed by the `APPID` , such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request Body

This API does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The SSE-COS-encrypted response body is follows:

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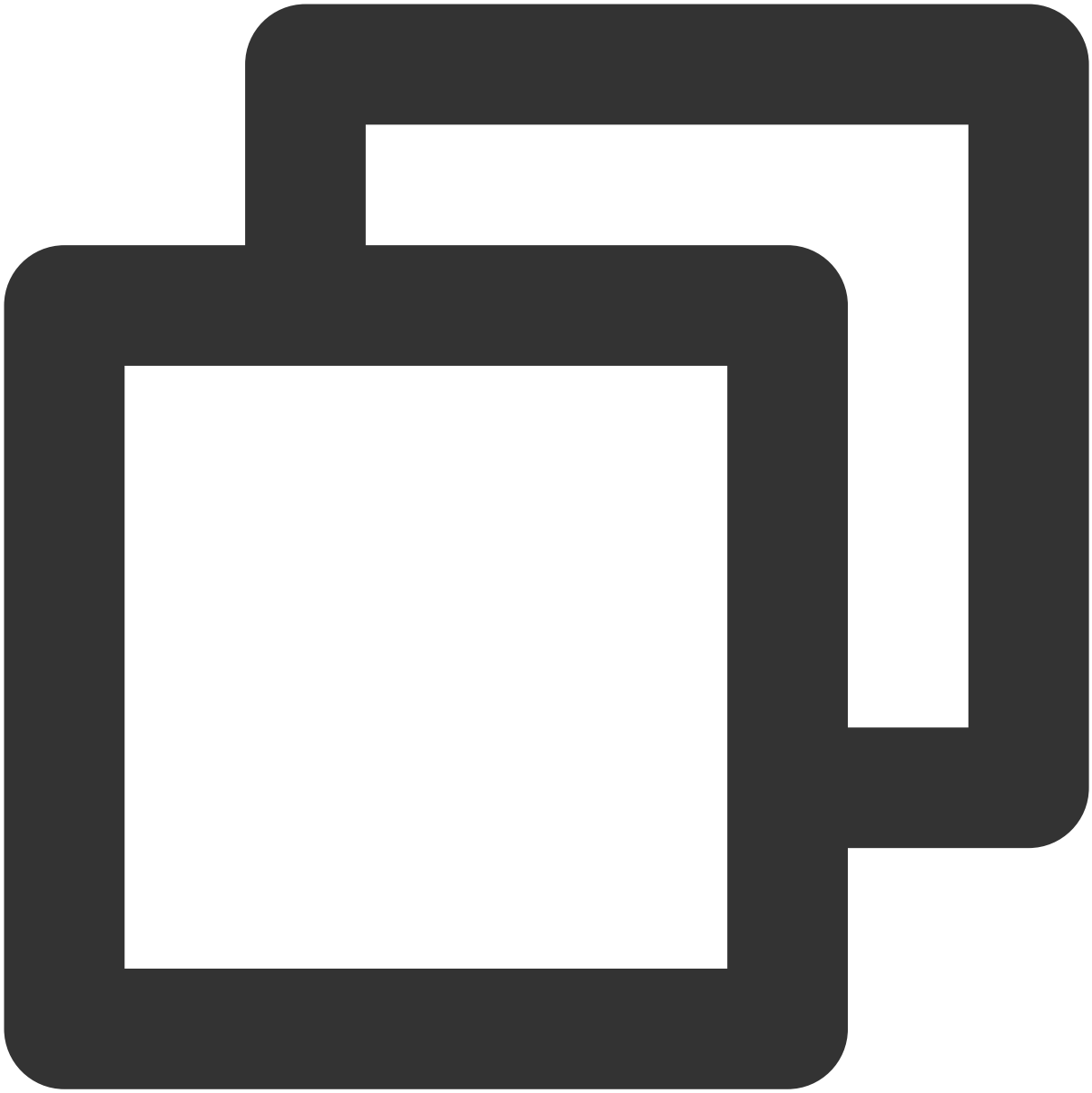

```
<ServerSideEncryptionConfiguration>
      <Rule>
            <ApplyServerSideEncryptionByDefault>
                <SSEAlgorithm>AES256|KMS</SSEAlgorithm>
                <KMSMasterKeyID>String</KMSMasterKeyID>
            </ApplyServerSideEncryptionByDefault>
      </Rule>
</ServerSideEncryptionConfiguration>
```

The nodes are described as follows:

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Element	Parent Node
ServerSideEncryptionConfiguration	None
Rule	ServerSideEncryptionConfiguration
ApplyServerSideEncryptionByDefault	ServerSideEncryptionConfiguration.Rule
SSEAlgorithm	ServerSideEncryptionConfiguration.Rule.ApplyServerSideEncryptionByDe
KMSMasterKeyID	ServerSideEncryptionConfiguration.Rule.ApplyServerSideEncryptionByDe

Error Code

This API returns common error responses and error codes. For more information, see Error Codes.

Samples

Request

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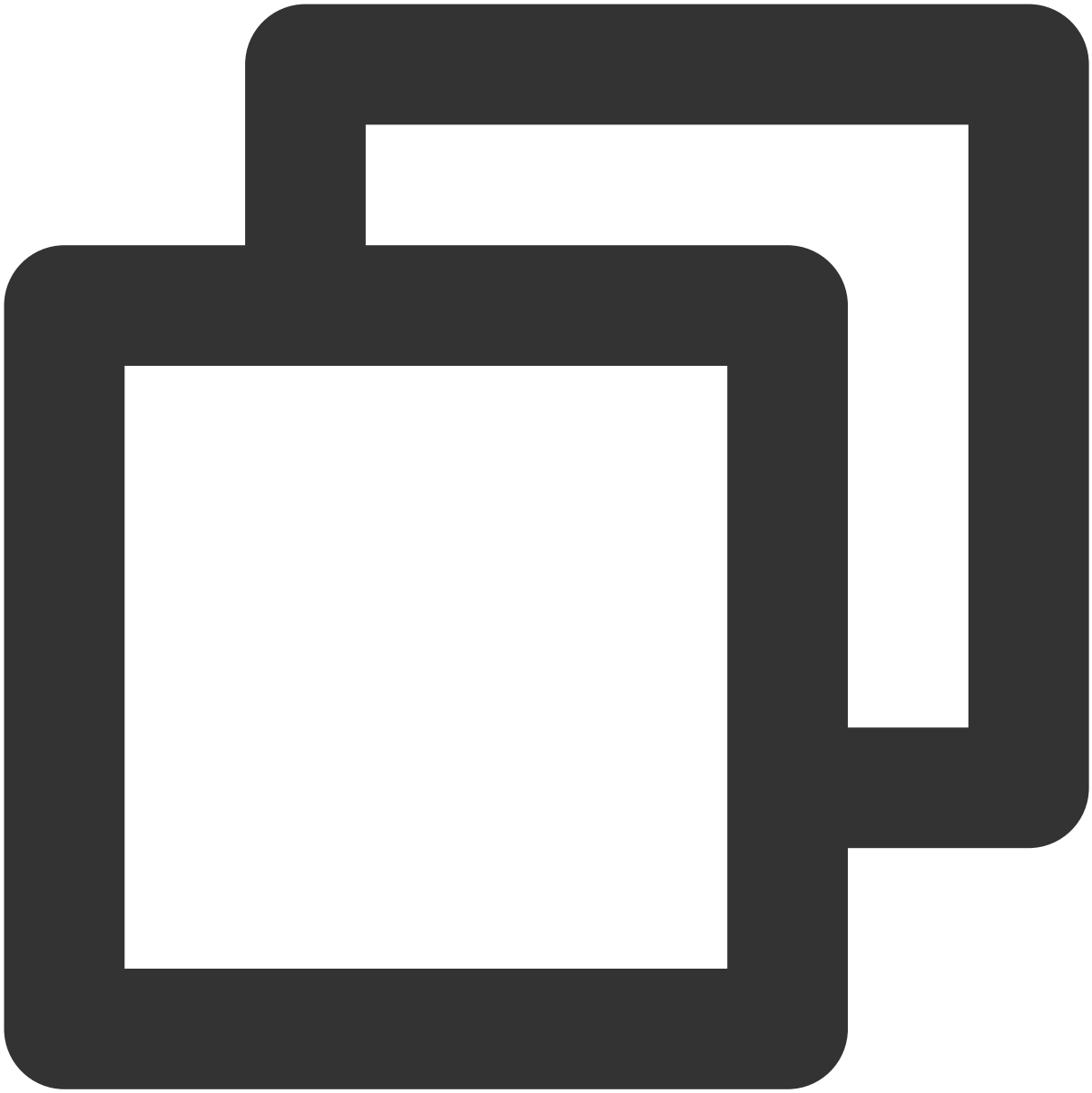

```
GET /?encryption HTTP 1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Mon, 17 Jun 2019 08:37:35 GMT
Authorization: signatureValue
```

Response

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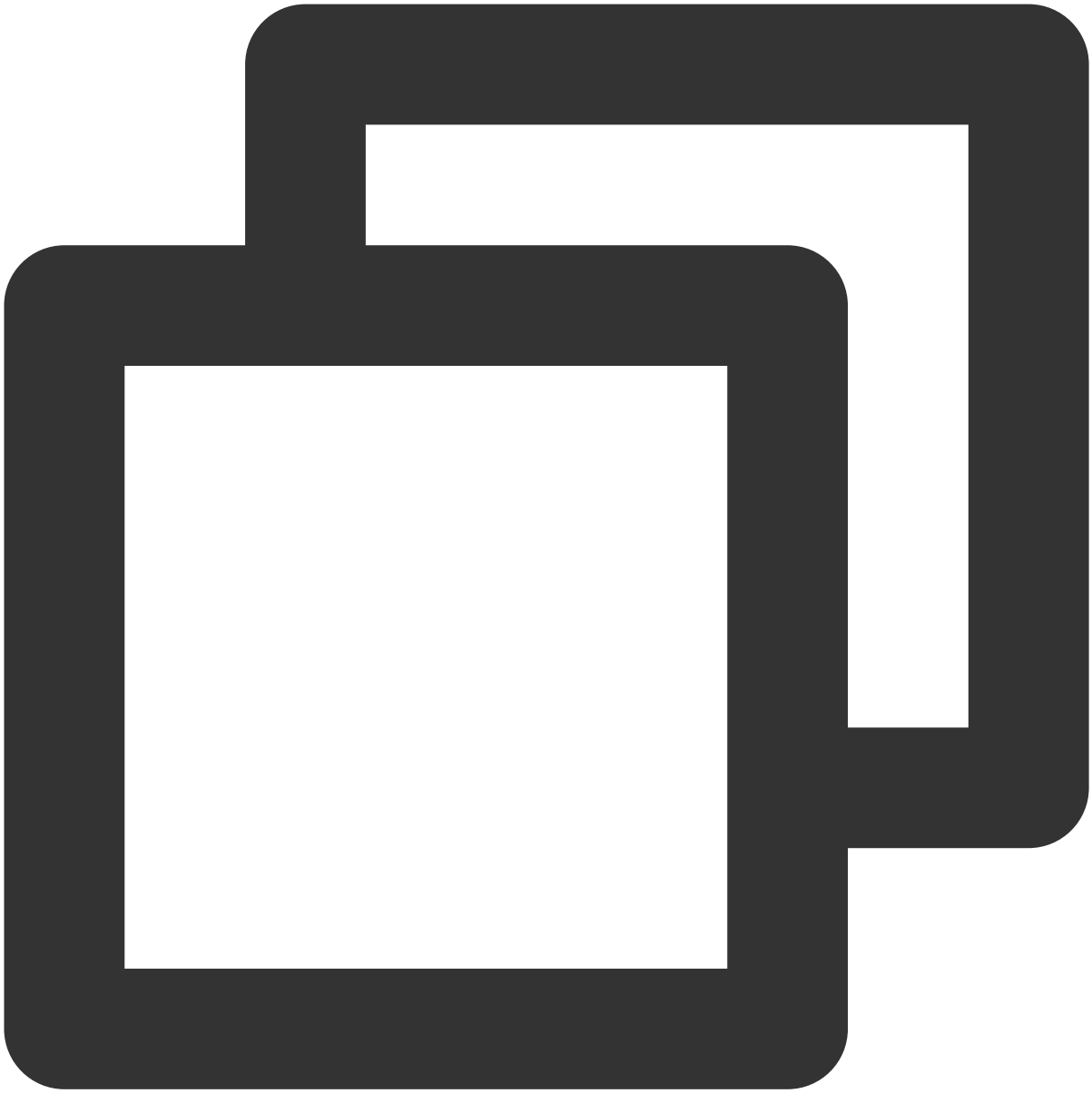

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: xxxx
Date: Mon, 17 Jun 2019 08:37:36 GMT
Server: tencent-cos
x-cos-request-id: NWQwNzUxNTBfMzdiMDJhMDlfOWM0Nl85NDFk****



<?xml version = "1.0" encoding = "UTF-8">
<ServerSideEncryptionConfiguration>
```

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```
        <Rule>
              <ApplyServerSideEncryptionByDefault>
                  <SSEAlgorithm>AES256</SSEAlgorithm>
              </ApplyServerSideEncryptionByDefault>
        </Rule>
</ServerSideEncryptionConfiguration>
```

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DELETE Bucket encryption

Last updated：2024-03-28 18:12:17

Overview

This API is used to delete the default encryption configuration from a bucket.
To call this API, you need to have the `DeleteBucketEncryption` permission. By default, the bucket owner has permission to call this API and can grant this permission to other users.

Request

Sample request

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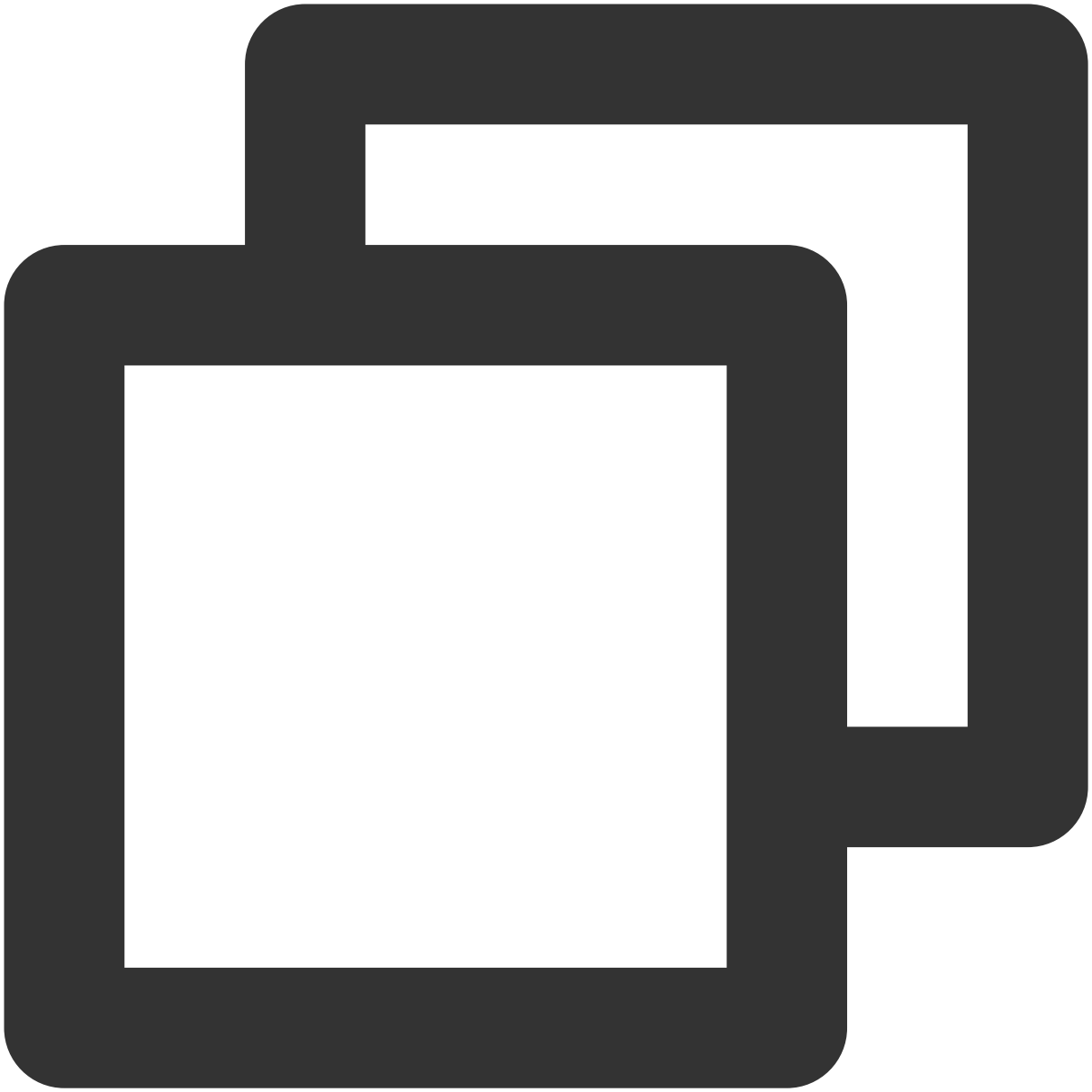

```
DELETE /?encryption HTTP 1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic

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Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request parameters

This API has no request parameter.

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response header

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

The following example deletes the default SSE-COS encryption configuration from the `examplebucket-1250000000` bucket:

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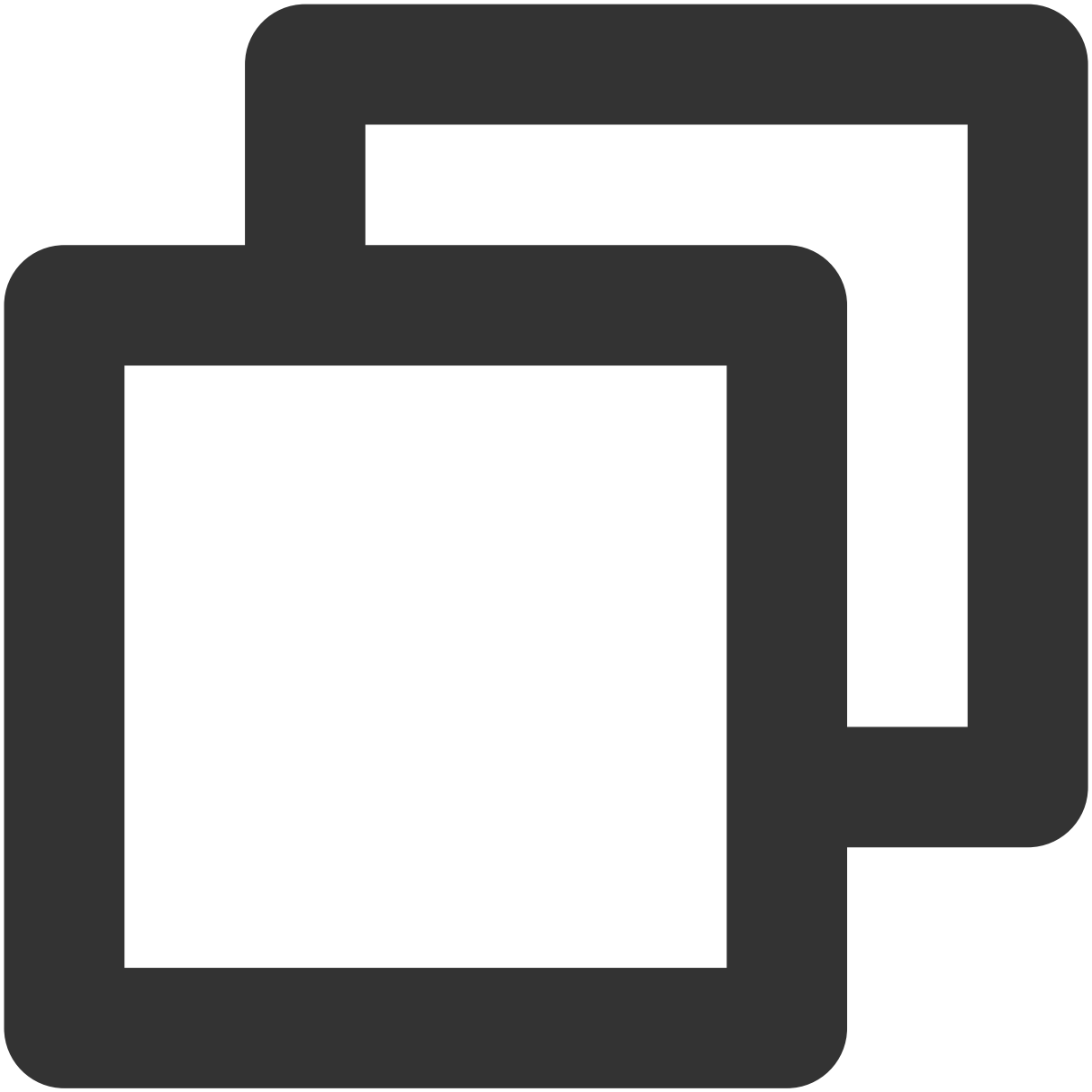

```
DELETE /?encryption HTTP 1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Mon, 17 Jun 2019 08:37:35 GMT
Authorization: signatureValue
```

Response

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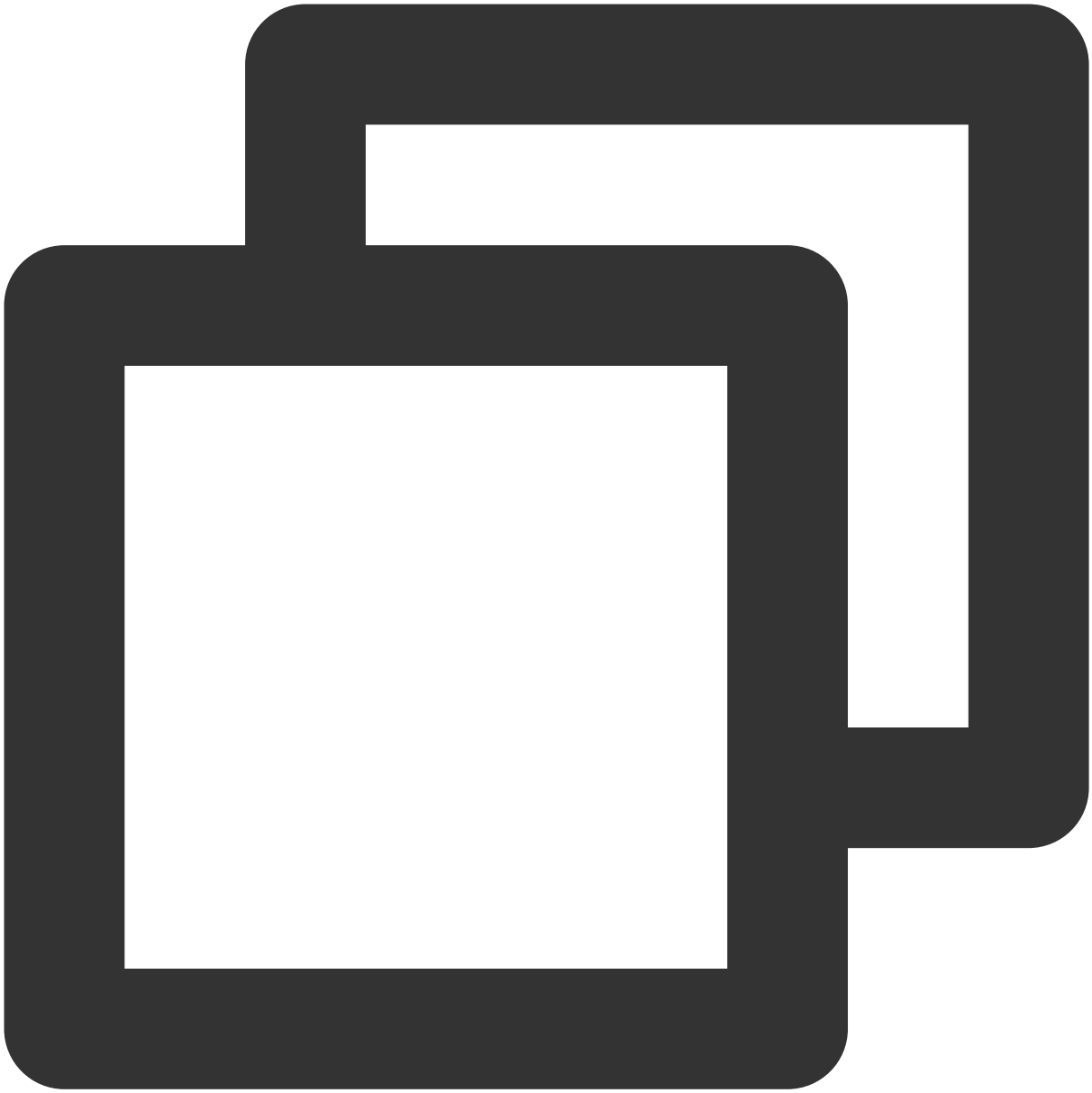

```
HTTP/1.1 204 No Content
Server: tencent-cos
Date: Mon, 17 Jun 2019 08:37:36 GMT
x-cos-request-id: NWQwNzUxNTBfMzdiMDJhMDlfOWM0Nl85NDFk****
```

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Custom Domain Name (Domain)
PUT Bucket domain

Last updated：2024-03-28 18:12:17

Overview

This API is used to configure a custom domain for a bucket.

Note:

You can add up to 20 custom domains. To add more, please contact us by submitting a ticket.

The custom domain supports 3 types of origin servers (default, static website, and global acceleration). To use a static website origin server, enable a static website. To use a global acceleration origin server, enable global acceleration.

By default, the root account has permission to add a custom domain to a bucket and can go to the CAM console to grant such permission to a sub-account by allowing it to call the `PutBucketDomain` API.

Request

Sample request

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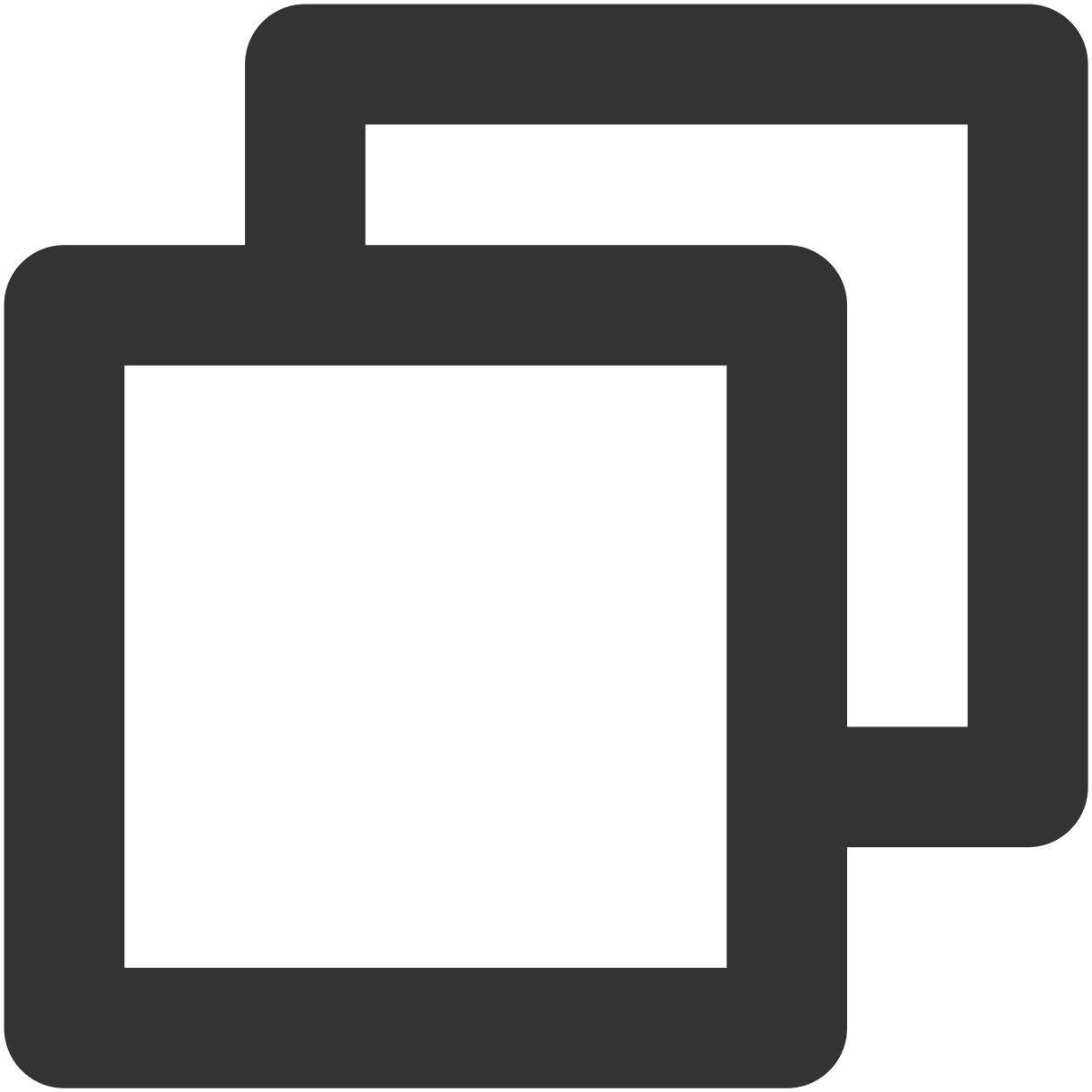

```
PUT /?domain HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String

[Request Body]
```

Note:

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In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

This request body submits the **application/xml** data that includes all information about the custom domain of the bucket.

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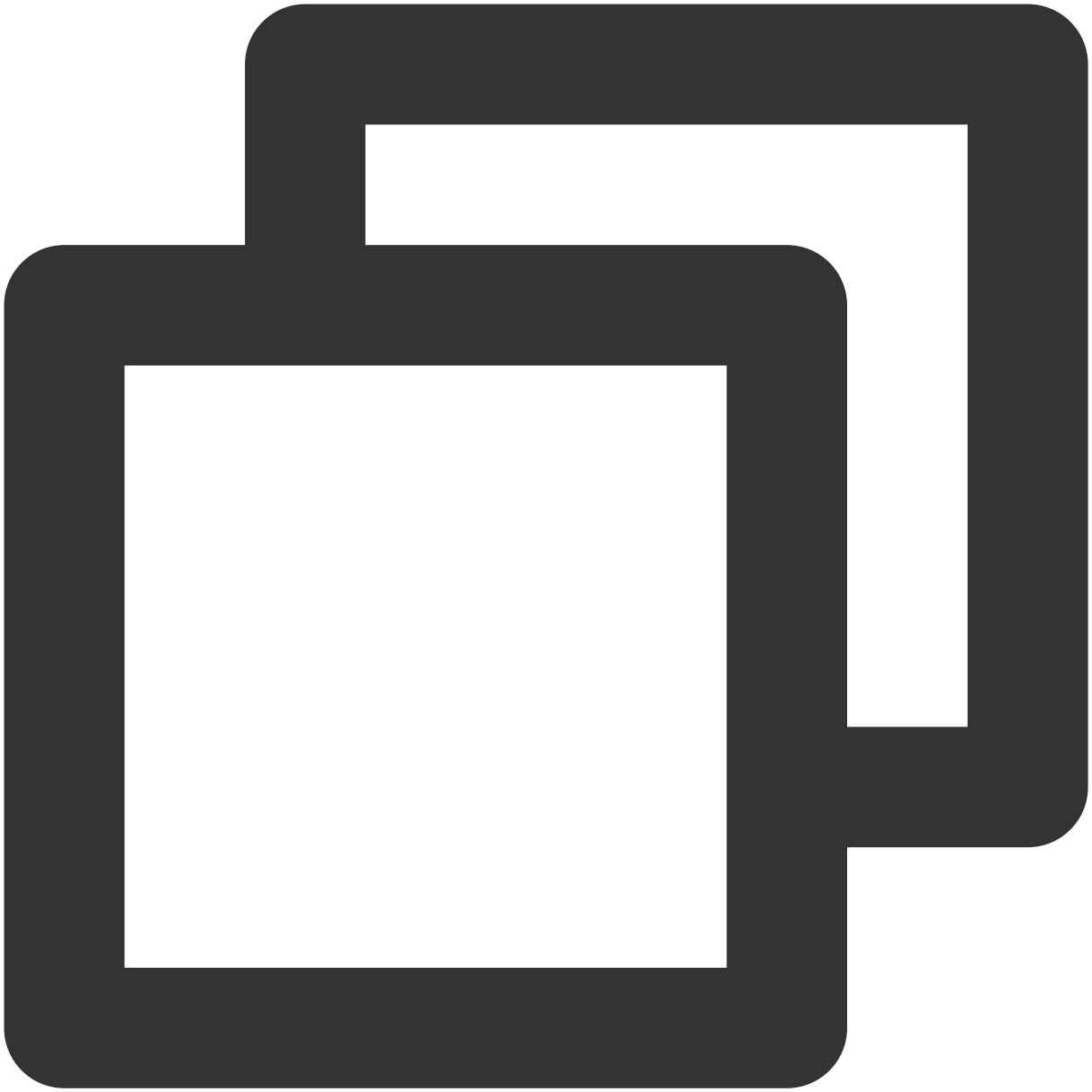

```
<DomainConfiguration>
    <DomainRule>
        <Status>Enum</Status>
        <Name>string</Name>
        <Type>Enum</Type>
    </DomainRule>
    <DomainRule>
        <Status>Enum</Status>
        <Name>string</Name>
        <Type>Enum</Type>
    </DomainRule>
```

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```
</DomainConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
DomainConfiguration	None	All configurations of the `PUT Bucket domain` request	Container	No

Content of `DomainConfiguration` :

Node Name (Keyword)	Parent Node	Description	Type	Required
DomainRule	DomainConfiguration	Domain entry	Container	Yes

Content of `DomainRule` :

Node Name (Keyword)	Parent Node	Description	Type	Required
Status	DomainConfiguration.DomainRule	Domain status. Enumerated values: `ENABLED` , `DISABLED`	Enum	Yes
Name	DomainConfiguration.DomainRule	Full domain name	string	Yes
Type	DomainConfiguration.DomainRule	Type of the origin server. Enumerated values: `REST` : default origin server `WEBSITE` : static website origin server `ACCELERATE` : global acceleration origin server	Enum	Yes
ForcedReplacement	DomainConfiguration.DomainRule	If the specified domain has been used for another bucket, you can use this node to forcibly use this domain for the current bucket. Currently, only CNAME is supported. Therefore, you need to point this	Enum	No

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		domain's CNAME to this bucket's origin server domain (which can be the default origin server, static website origin server, or global acceleration origin server depending on `Type`) before calling this API.		

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Example

Request

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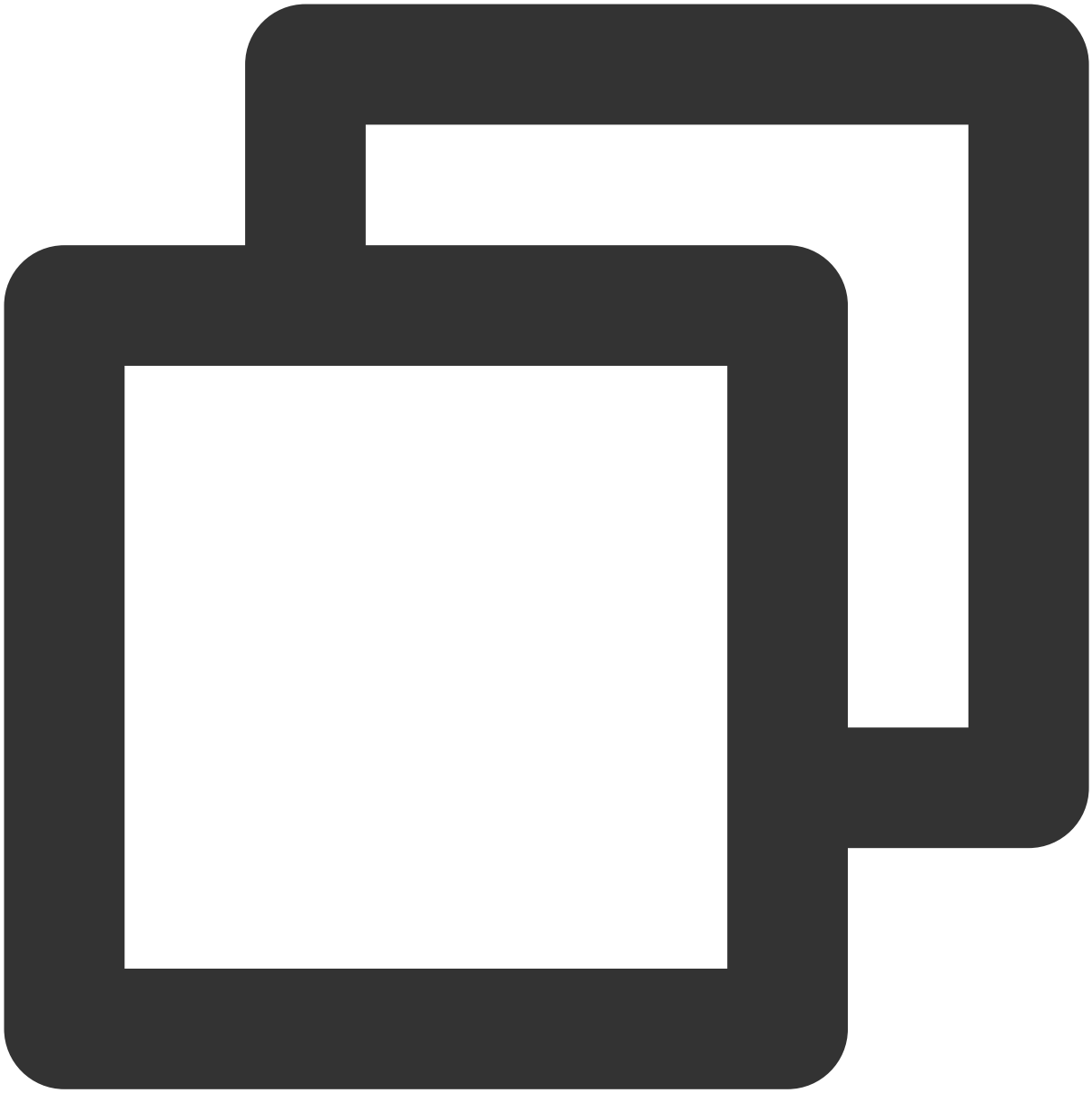

```
PUT /?domain HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 29 Apr 2020 09:16:14 GMT
Content-Type: application/xml
Content-Length: 288
Content-MD5: WHjVNjOz7lW82VThLKf4Lg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<DomainConfiguration>
    <DomainRule>
```

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```
        <Status>ENABLED</Status>
        <Name>cos.cloud.tencent.com</Name>
        <Type>REST</Type>
    </DomainRule>
    <DomainRule>
        <Status>ENABLED</Status>
        <Name>www.cos.cloud.tencent.com</Name>
        <Type>WEBSITE</Type>
    </DomainRule>
</DomainConfiguration>
```

Response

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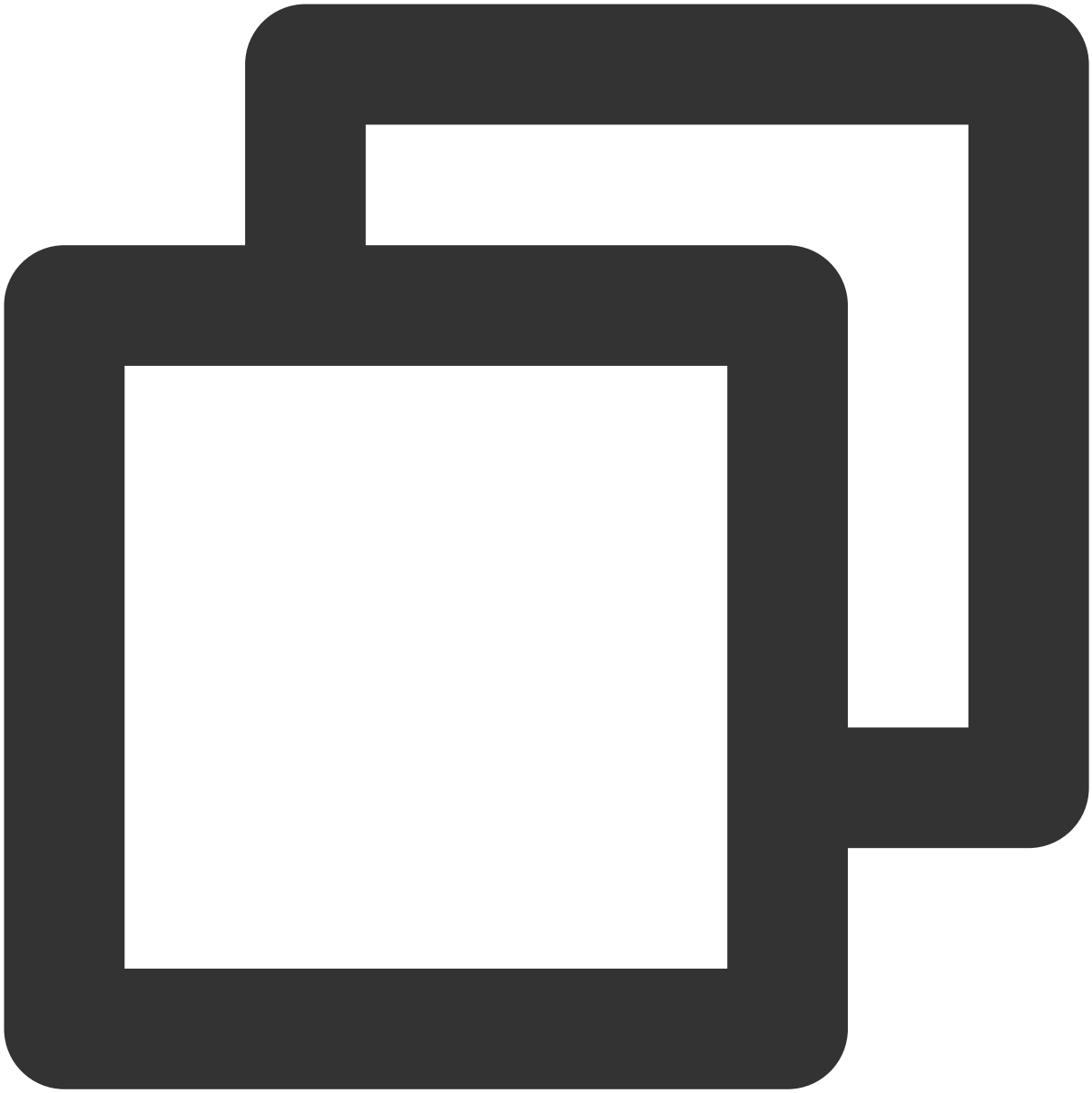

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Wed, 29 Apr 2020 09:16:15 GMT
Server: tencent-cos
x-cos-request-id: NWVhOTQ1ZGVfZTViOTJhMDlfMzA0MjJfMTEwMmJi****
```

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GET Bucket domain

Last updated：2024-03-28 18:12:17

Overview

This API is used to query the custom domain configuration of a bucket.

Note:

By default, the root account has permission to query the custom domain configuration of a bucket and can go to the CAM console to grant such permission to a sub-account by allowing it to call the `GetBucketDomain` API.

Request

Sample request

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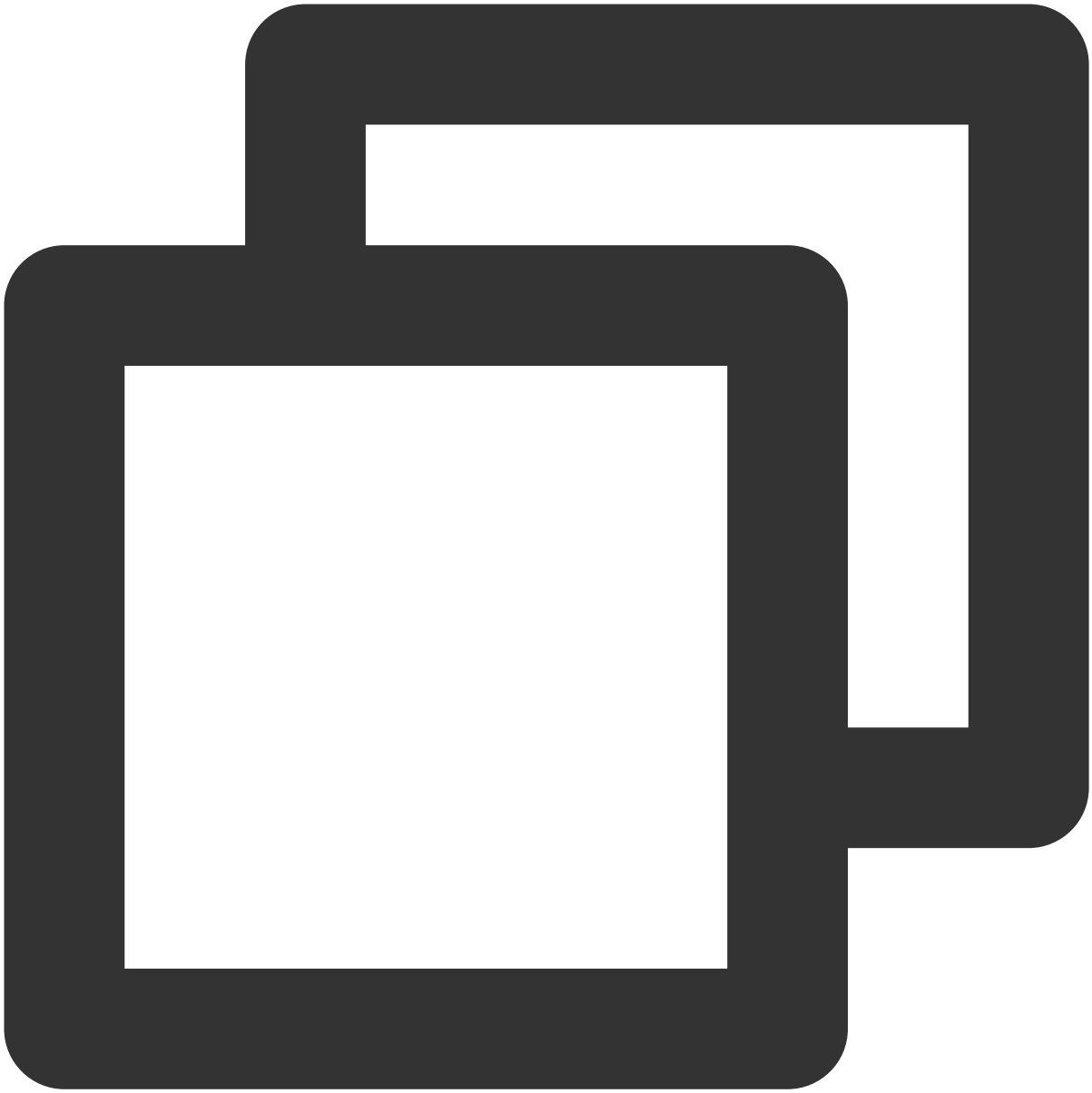

```
GET /?domain HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

If the request is successful, **application/xml** data that includes the complete custom domain configuration of the bucket will be returned.

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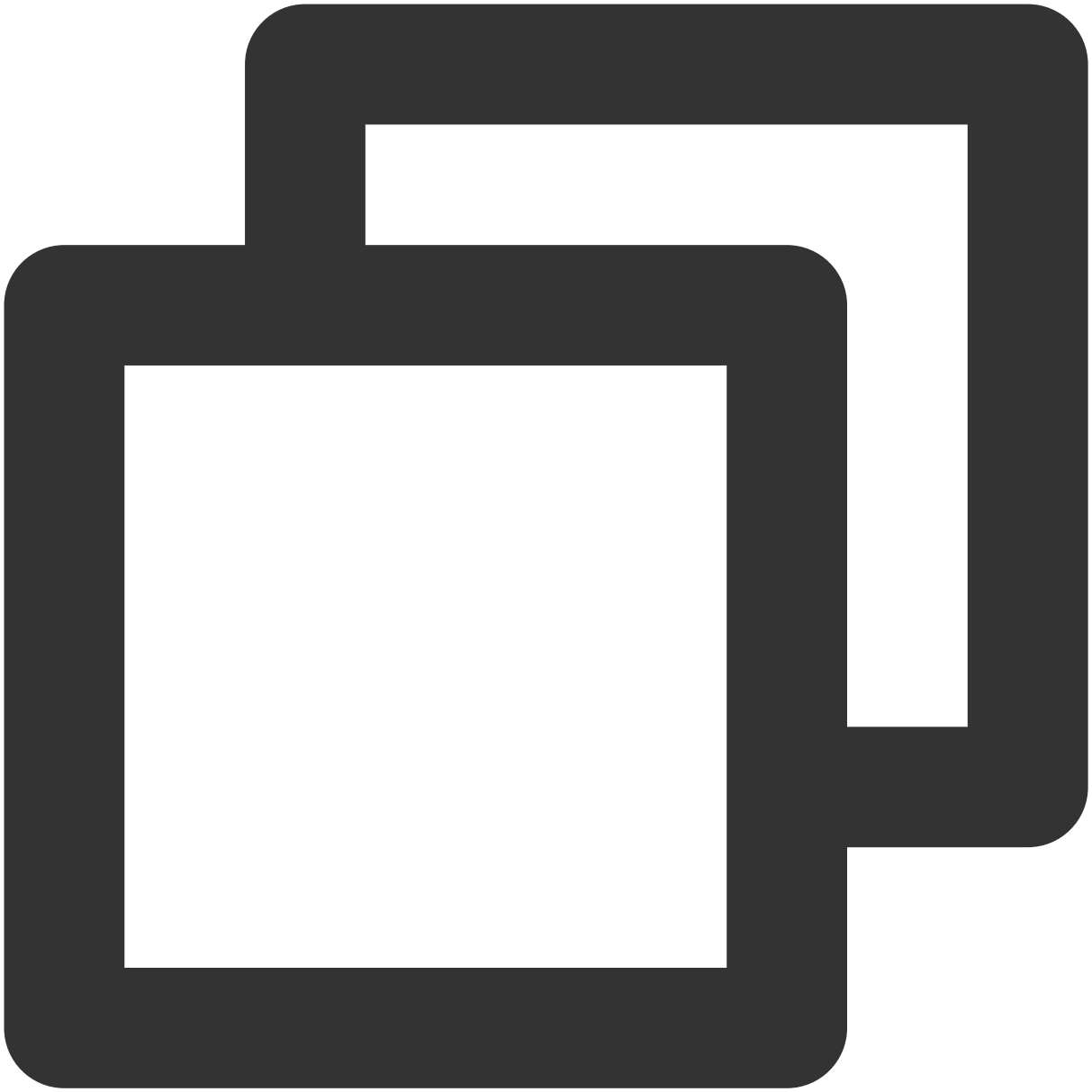

```
<DomainConfiguration>
    <DomainRule>
        <Status>Enum</Status>
        <Name>string</Name>
        <Type>Enum</Type>
    </DomainRule>
    <DomainRule>
        <Status>Enum</Status>
        <Name>string</Name>
        <Type>Enum</Type>
    </DomainRule>
```

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```
</DomainConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
DomainConfiguration	None	Stores the result of `GET Bucket domain` .	Container

Content of `DomainConfiguration` :

Node Name (Keyword)	Parent Node	Description	Type
DomainRule	DomainConfiguration	Domain entry	Container

Content of `DomainRule` :

Node Name (Keyword)	Parent Node	Description	Type
Status	DomainConfiguration.DomainRule	Domain status. Enumerated values: `ENABLED` , `DISABLED`	Enum
Name	DomainConfiguration.DomainRule	Full domain name	string
Type	DomainConfiguration.DomainRule	Type of the origin server. Enumerated values: `REST` : default origin server `WEBSITE` : static website origin server `ACCELERATE` : global acceleration origin server	Enum

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

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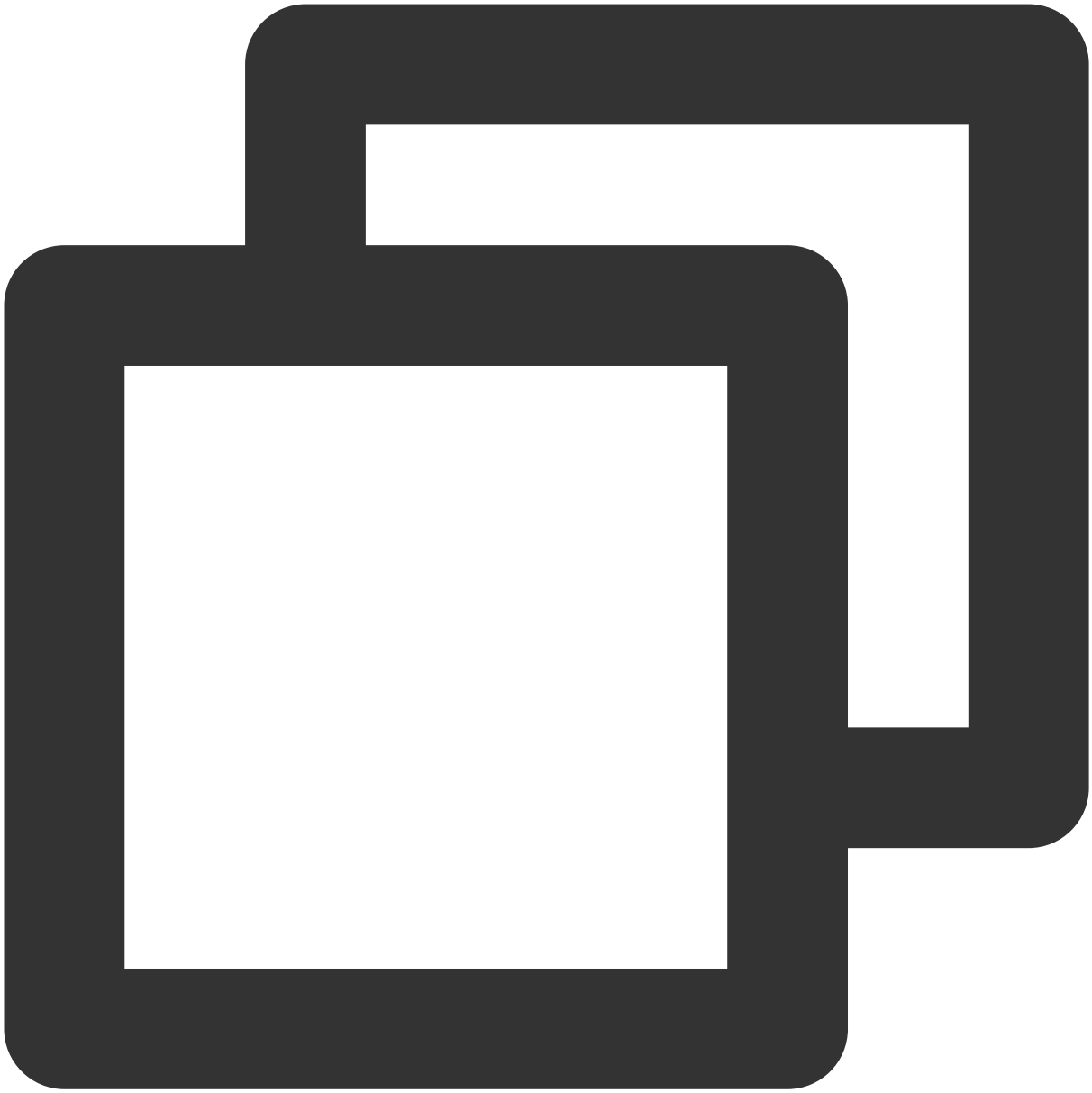

```
GET /?domain HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 29 Apr 2020 09:16:26 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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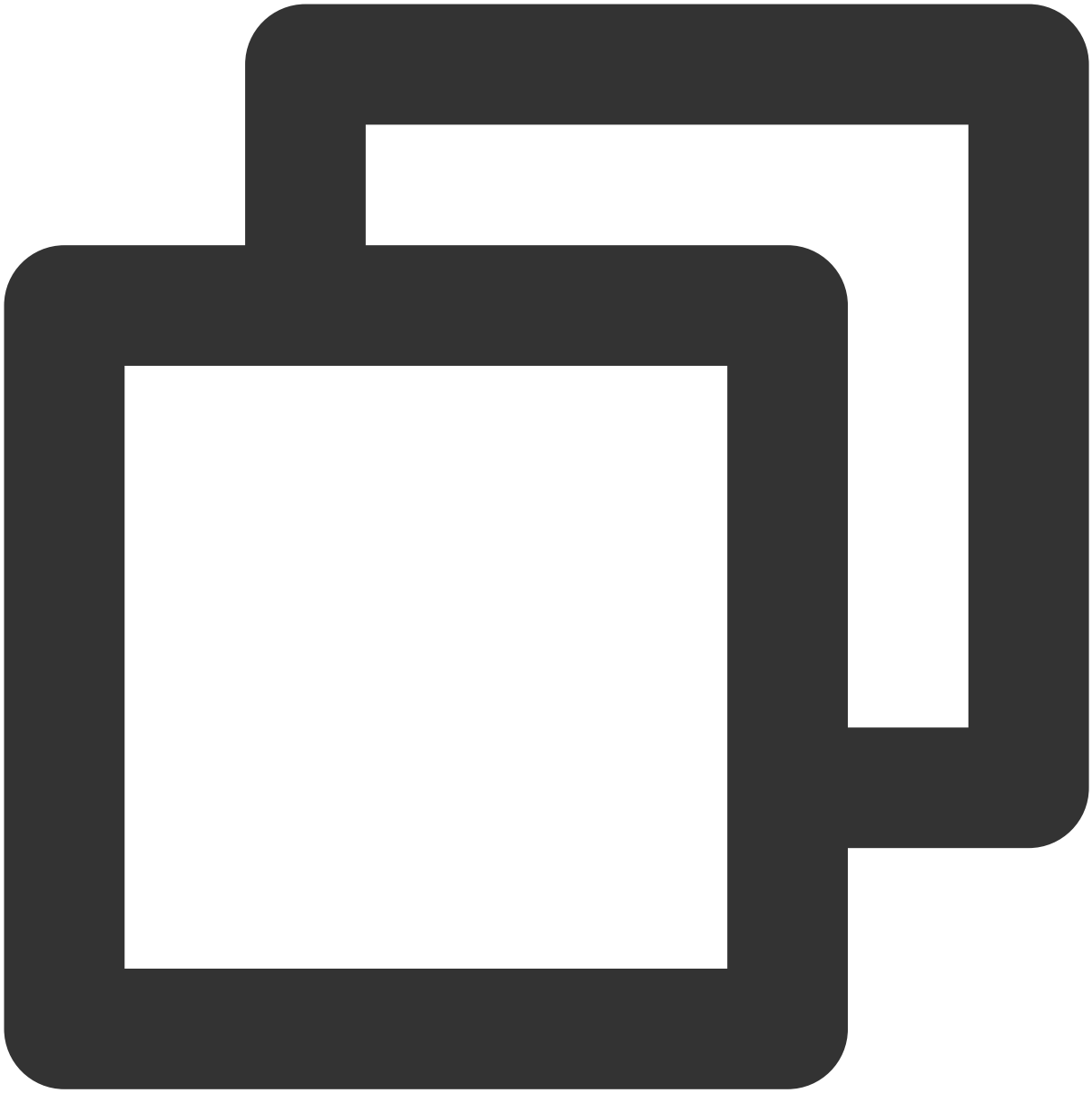

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 277
Connection: close
Date: Wed, 29 Apr 2020 09:16:26 GMT
Server: tencent-cos
x-cos-domain-txt-verification: tencent-cloud-cos-verification=673029e5ff8e4d2b5723d
x-cos-request-id: NWVhOTQ1ZWFfN2ViMTJhMDlfMjU5Zl8xMzQ1****

<DomainConfiguration>
    <DomainRule>
```

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```
        <Status>ENABLED</Status>
        <Name>cos.cloud.tencent.com</Name>
        <Type>REST</Type>
    </DomainRule>
    <DomainRule>
        <Status>ENABLED</Status>
        <Name>www.cos.cloud.tencent.com</Name>
        <Type>WEBSITE</Type>
    </DomainRule>
</DomainConfiguration>
```

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DELETE Bucket domain

Last updated：2024-03-28 18:12:17

Overview

This API is used to delete the custom domains bound to a bucket.

Note:

By default, the root account has permission to delete the custom domains bound to a bucket and can go to the CAM console to grant such permission to a sub-account by allowing it to call the `DeleteBucketDomain` API.

This API deletes all custom domains bound to the bucket. To delete only some domains, call `GET Bucket Domain` to query all custom domains bound to the bucket first, and call `PUT Bucket Domain` to bind the needed domains again.

Request

Sample request

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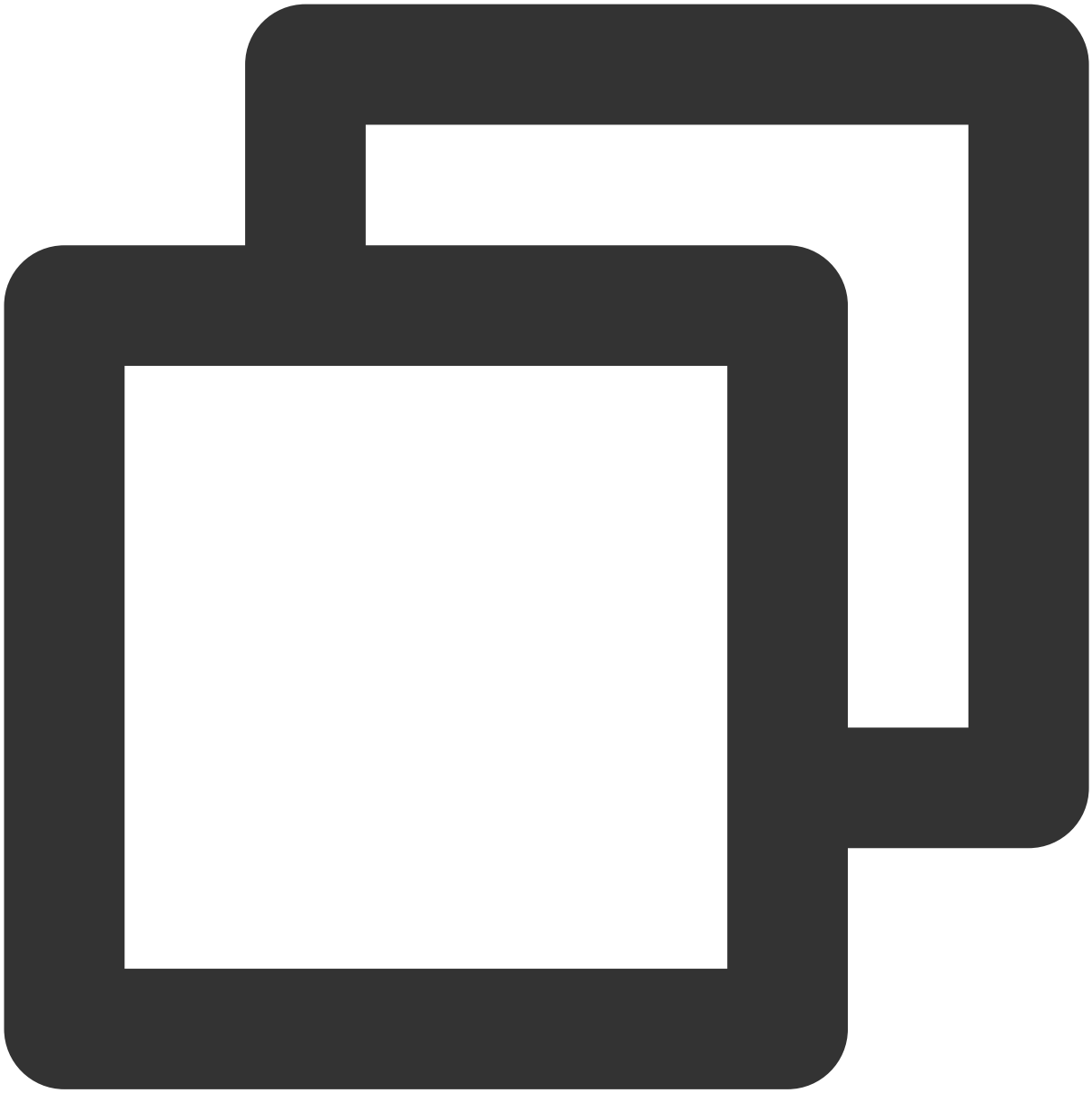

```
DELETE /?domain HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic

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Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request parameters

This API has no request parameter.

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

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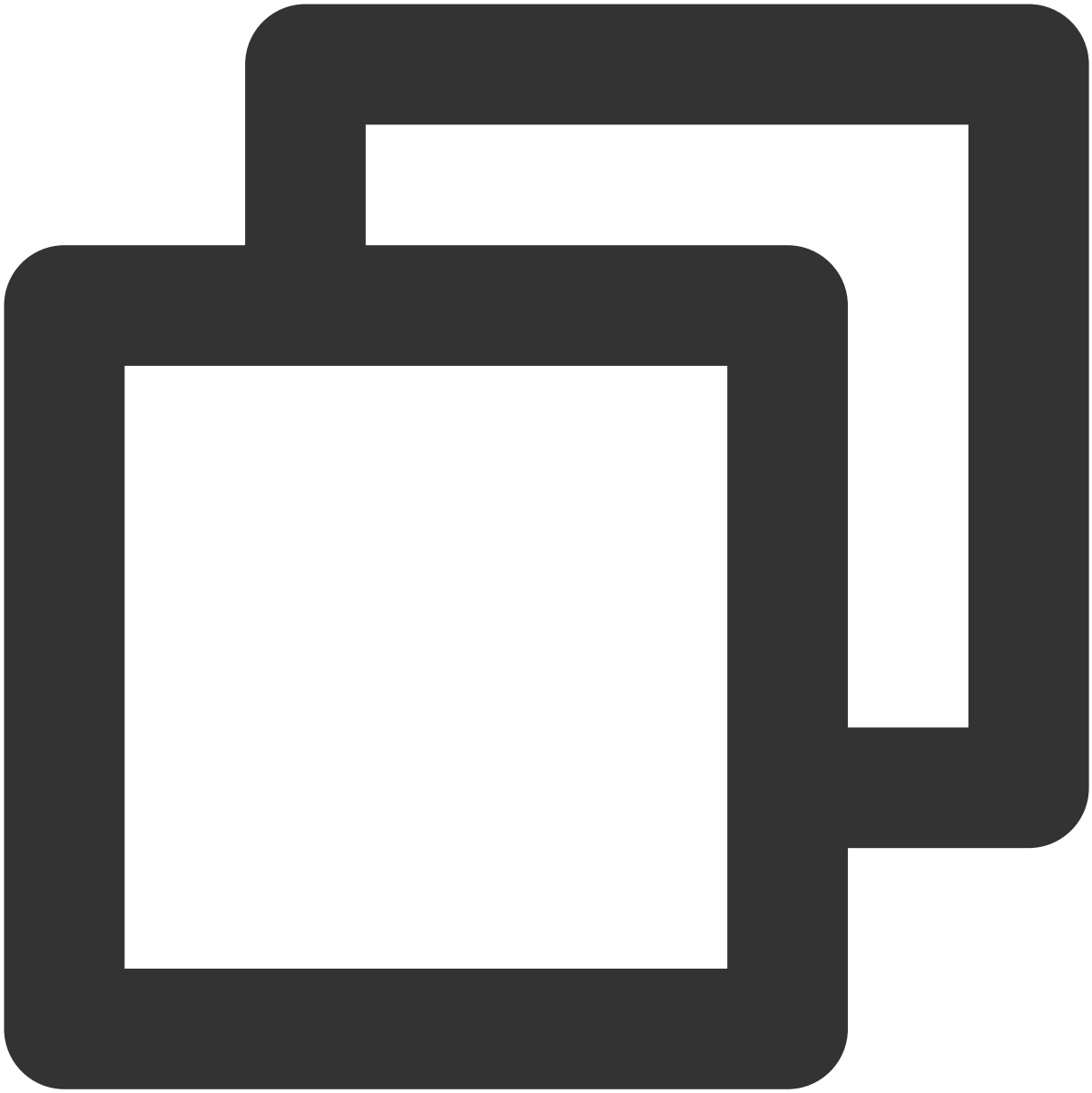

```
DELETE /?domain HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 29 Apr 2020 09:10:59 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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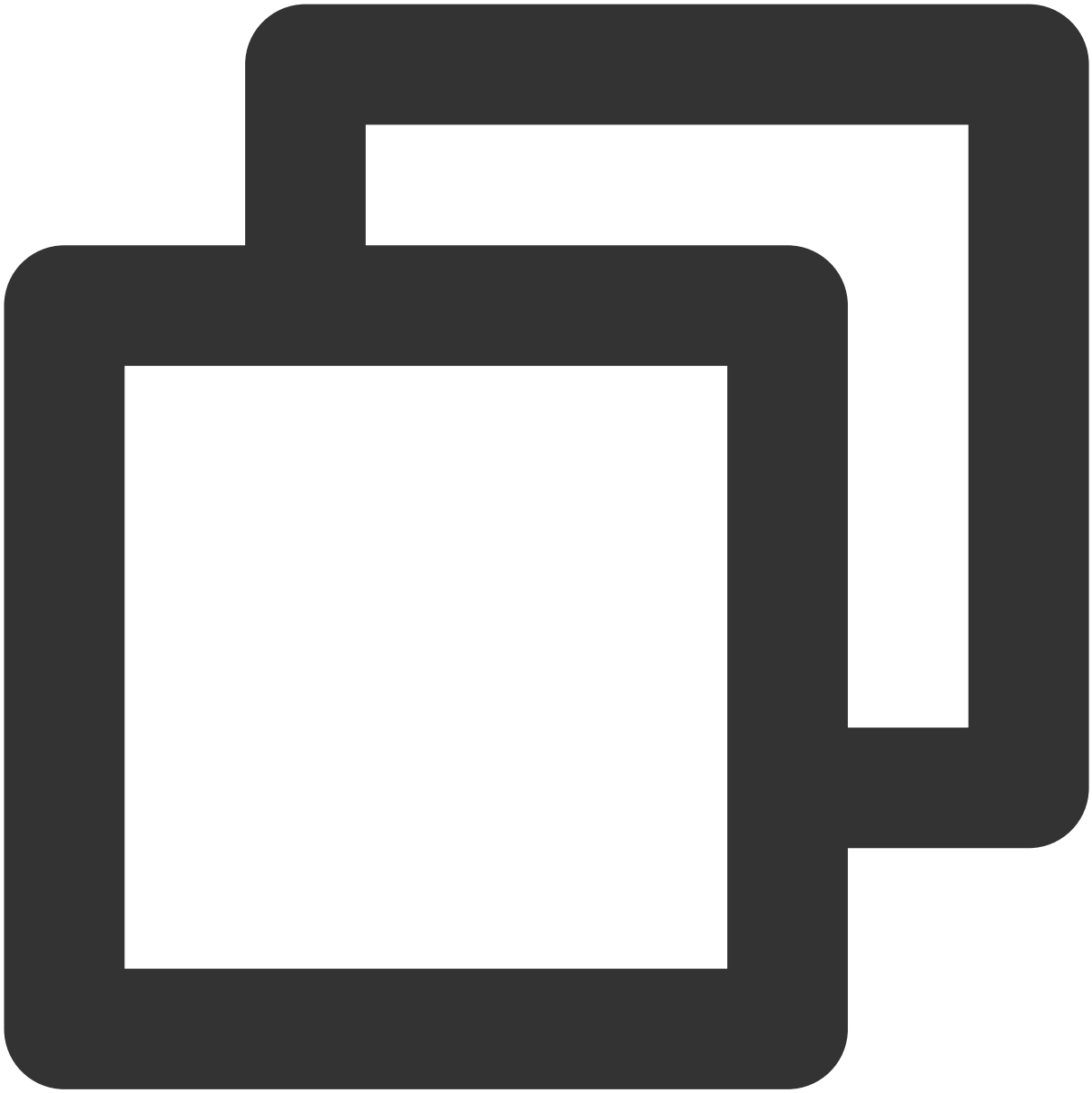

```
HTTP/1.1 204 No Content
Connection: close
Date: Wed, 29 Apr 2020 09:11:00 GMT
Server: tencent-cos
x-cos-request-id: NWVhOTQ0YTNfYWZjOTJhMDlfMWNhYTBfOTEw****
x-cos-trace-id: OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODczNTBmNjMwZmQ0MTZkMjg0Njl
Content-Length: 0
```

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Origin-Pull (Origin)
GET Bucket Origin

Last updated：2024-03-28 18:12:17

Overview

This API is used to query the origin-pull configuration of a bucket.

Request

Sample request

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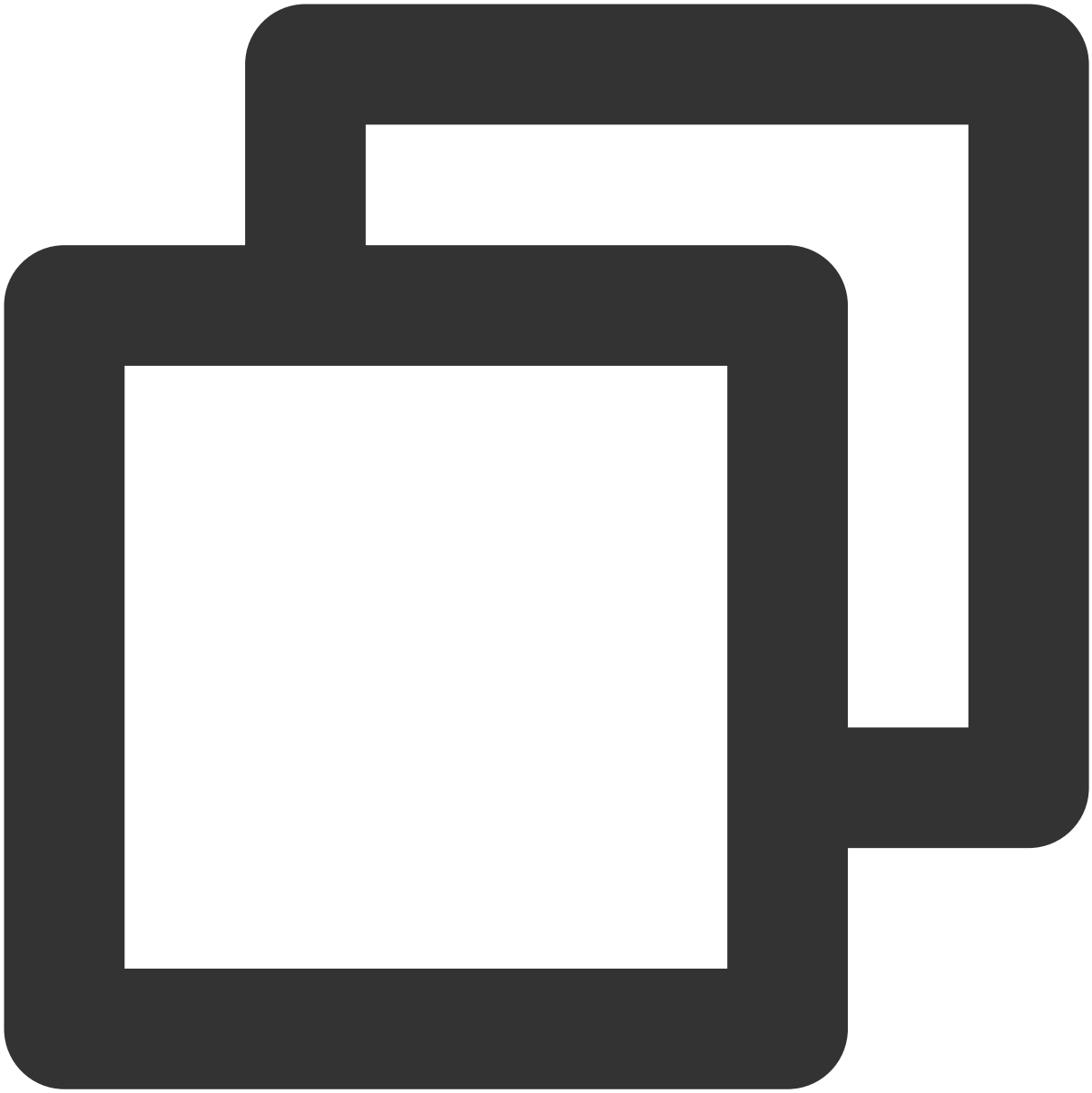

```
GET /?origin HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is an origin-pull rule, with its structure shown below:

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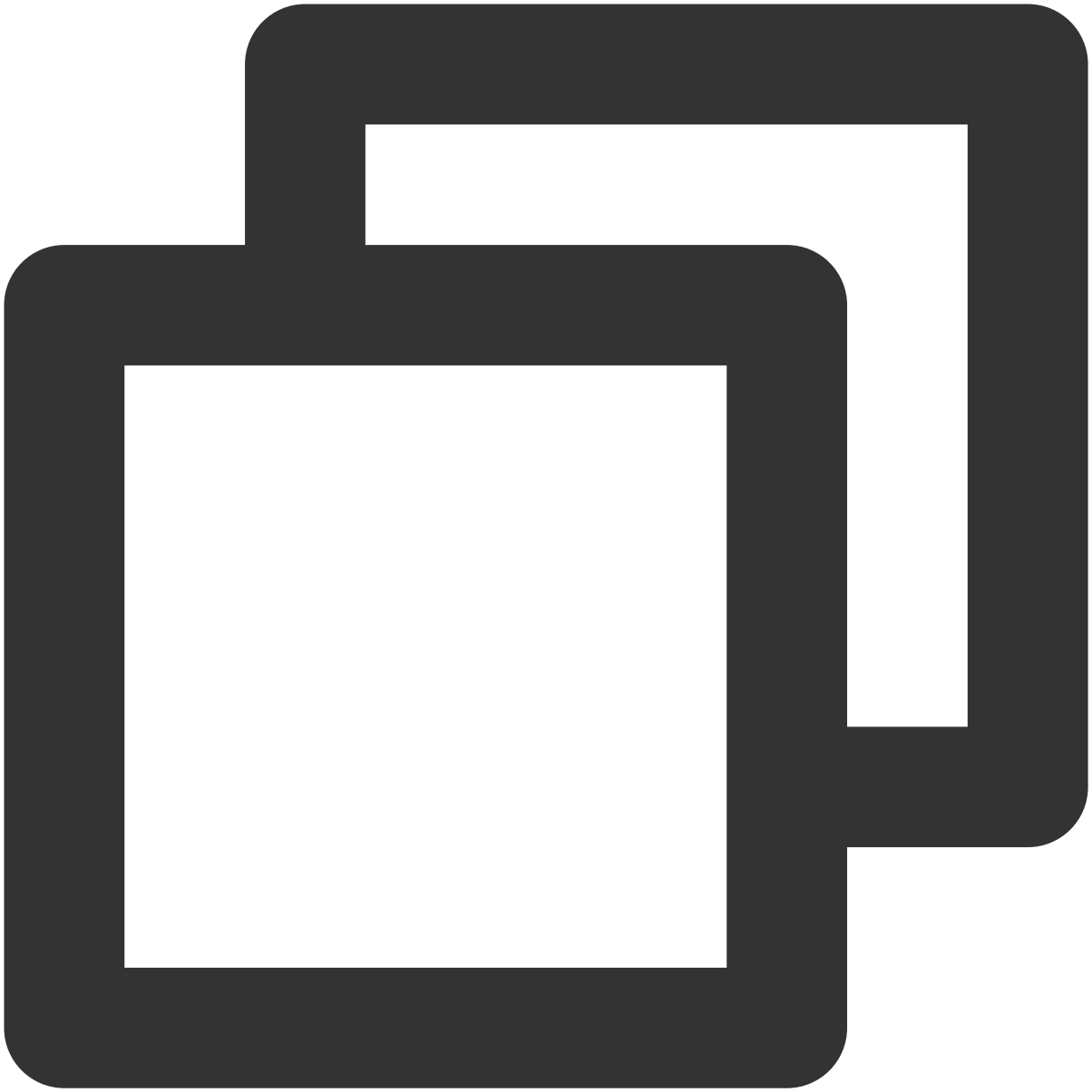

```
<OriginConfiguration>
    <OriginRule>
        <RulePriority>Integer</RulePriority>
        <OriginType>Redirect|Proxy|Mirror</OriginType>
        <OriginCondition>
            <!--The setting of the HTTP status code for origin-pull is determined b
            <HTTPStatusCode>404</HTTPStatusCode>
            <Prefix></Prefix>
        </OriginCondition>
        <OriginParameter>
            <Protocol>HTTP|HTTPS|FOLLOW</Protocol>
```

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```
            <!--Whether to retain the error code of the origin for origin-pull-->
            <TransparentErrorCode>true|false</TransparentErrorCode>
            <!--Whether to retain the raw query parameter for origin-pull. Valid va
            <FollowQueryString>true|false</FollowQueryString>
            <!--Origin-pull request header parameter-->
            <HttpHeader>
                <!--Whether to transfer all request headers for origin-pull. Valid
                <FollowAllHeaders>true|false</FollowAllHeaders>
                <!--Add specified headers for origin-pull. At most 10 headers can b
                <!--If there is a value, add a header. If the value is null, do not
                <NewHttpHeaders>
                    <Header>
                        <Key>x-cos|oss|amz-ContentType|CacheControl|ContentDisposit
                        <Value>string</Value>
                    </Header>
                </NewHttpHeaders>
                <!--Pass through the specified headers of the raw request for origi
                <FollowHttpHeaders>
                    <Header>
                        <Key>x-cos|oss|amz-ContentType|CacheControl|ContentDisposit
                    </Header>
                </FollowHttpHeaders>
                <!--Do not pass through the specified headers of the raw request fo
                <ForbidFollowHeaders>
                    <Header>
                        <Key>String</Key>
                    </Header>
                </ForbidFollowHeaders>
            </HttpHeader>
            <!--Follow3xx parameter-->
            <FollowRedirection>true|false</FollowRedirection>
            <!--The redirect code parameter is optional only when the origin-pull t
            <HttpRedirectCode>301|302|307</HttpRedirectCode>
        </OriginParameter>
    <!--Error code that triggers a switchover to the secondary origin. By default,
        <HTTPStandbyCode>
            <StatusCode>404</StatusCode>
            <StatusCode>403</StatusCode>
        </HTTPStandbyCode>
        <OriginInfo>
            <!--In the `Mirror` mode, multiple origins can be set to perform origin
            <HostInfo>
                <HostName>bucketname-appid.cos.region.myqcloud.com</HostName>
                <!--Weight set for the origins. Origin-pull is performed based on t
        <Weight>4</Weight>
                <!--Secondary origin address. At most 10 secondary origin addresses
                <StandbyHostName_1>bucketname2-appid.cos.region.myqcloud.com</Stand
```

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```
                <StandbyHostName_2>bucketname3-appid.cos.region.myqcloud.com</Stand
            </HostInfo>
            <HostInfo>
                <HostName>bucketname4-appid.cos.region.myqcloud.com</HostName>
                <!--Weight set for the origins. Origin-pull is performed based on t
                <Weight>2</Weight>
                <!--Secondary origin address. At most 10 secondary origin addresses
                <StandbyHostName_1>bucketname5-appid.cos.region.myqcloud.com</Stand
                <StandbyHostName_2>bucketname6-appid.cos.region.myqcloud.com</Stand
            </HostInfo>
            <FileInfo>
                <!--A specified file to pull-->
                <FixedFileConfiguration>
                    <FixedFilePath>String</FixedFilePath>
                </FixedFileConfiguration>
                <!--New prefix of the origin-pull filename-->
                <PrefixConfiguration>
                    <Prefix></Prefix>
                </PrefixConfiguration>
                <!--New suffix of the origin-pull filename-->
                <SuffixConfiguration>
                    <Suffix></Suffix>
                </SuffixConfiguration>
            </FileInfo>
        </OriginInfo>
    </OriginRule>
</OriginConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
OriginConfiguration	None	Origin-pull configuration	Container

Content of `OriginConfiguration` :

Node Name (Keyword)	Parent Node	Description	Type
OriginRule	OriginConfiguration	Origin-pull rule. More than one `OriginRule` are supported, which are applied in order of priority.	Container

Content of `OriginRule` :

Node Name (Keyword)	Parent Node	Description	Type

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RulePriority	OriginConfiguration.OriginRule	Priority of the rule	Integer
OriginType	OriginConfiguration.OriginRule	Origin-pull type. Three modes are supported: async origin-pull (Proxy), sync origin-pull (Mirror), redirection-based origin-pull (Redirect). Enumerated values: `Proxy`, `Mirror`, `Redirect`.	String
OriginCondition	OriginConfiguration.OriginRule	Origin-pull conditions, such as the HTTP protocol	Container
OriginParameter	OriginConfiguration.OriginRule	Origin address configuration	Container
OriginInfo	OriginConfiguration.OriginRule	Information about the origin, such as its domain name or IP	Container

Content of `OriginCondition`:

Node Name (Keyword)	Parent Node	Description	Type
HTTPStatusCode	OriginConfiguration.OriginRule.OriginCondition	HTTP status code that triggers origin-pull. Set this parameter to `404` for the origin-pull of the `Proxy` or `Mirror` type and to `4XX` or `5XX` for the origin-pull of the `Redirect` type.	String
Prefix	OriginConfiguration.OriginRule.OriginCondition	Filename prefix that triggers origin-pull. By default, this parameter is left empty, meaning that any file can trigger origin-pull.	String

Content of `OriginParameter`:

Node Name (Keyword)	Parent Node	Description	Type
Protocol	OriginConfiguration.OriginRule.OriginParameter	Protocol used for origin-pull. Enumerated values: `HTTP`, `HTTPS`, `FOLLOW` (default,	String

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		meaning to follow the user protocol)	
FollowQueryString	OriginConfiguration.OriginRule.OriginParameter	Whether to pass through the HTTP request string for origin-pull. Enumerated values: `true` (default), `false`	Boolean
HttpHeader	OriginConfiguration.OriginRule.OriginParameter	Whether to set HTTP header transferring	Container
FollowRedirection	OriginConfiguration.OriginRule.OriginParameter	Redirection policy for 3xx responses. Enumerated values: `true` (default): pulls resources from the origin and saves the resources to COS for 3xx responses `false` : passes through 3xx responses without requesting the resources	Boolean
HttpRedirectCode	OriginConfiguration.OriginRule.OriginParameter	Return code set only for the `Redirect` or `Proxy` mode. Enumerated values: `301` , `302` (default), `307`	String

Content of `HttpHeader` :

Node Name (Keyword)	Parent Node	Description	Type
FollowAllHeaders	OriginConfiguration.OriginRule.OriginParameter.HttpHeader	Whether to transfer all request headers. Enumerated values: `true` ,	Boolear

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		`false` (default)	
NewHttpHeaders	OriginConfiguration.OriginRule.OriginParameter.HttpHeader	Specified headers to add during origin-pull. At most 10 headers are supported.	Contain
FollowHttpHeaders	OriginConfiguration.OriginRule.OriginParameter.HttpHeader	Headers in the raw request that are to pass through during origin-pull	Contain
ForbidFollowHeaders	OriginConfiguration.OriginRule.OriginParameter.HttpHeader	Headers in the raw request that are not to pass through during origin-pull	Contain

Content of `NewHttpHeaders` , `FollowHttpHeaders` , and `ForbidFollowHeaders` :

Node Name (Keyword)	Parent Node	Description	Ty
Header	OriginConfiguration.OriginRule.OriginParameter.HttpHeader.NewHttpHeaders	Custom headers to add or transfer during origin-pull. This parameter is left empty by default.	C

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Content of `Header`:

Node Name (Keyword)	Parent Node	Des
Key	OriginConfiguration.OriginRule.OriginParameter.HttpHeader.NewHttpHeader.UserMetaData	Nar the Vali `os` for `Ca` `Cc` `Cc` `Ht` `Us`
Value	OriginConfiguration.OriginRule.OriginParameter.HttpHeader.NewHttpHeader.UserMetaData	Valu This by c

Content of `OriginInfo`:

Node Name (Keyword)	Parent Node	Description	Type
HostInfo	OriginConfiguration.OriginRule.OriginInfo	Origin information. In the `Mirror` mode, multiple origins can be set to perform origin-pull based on the ratio, so that these origins can share the origin-pull traffic of a single origin. At most 10 origin addresses are supported, and the ratio is set by weight. In the `Proxy` or `Redirect` mode, only one origin can be set.	Container
FileInfo	OriginConfiguration.OriginRule.OriginInfo	Information about the pulled file	Container

Content of `HostInfo`:

Node Name (Keyword)	Parent Node	Description	T
HostName	OriginConfiguration.OriginRule.OriginInfo.HostInfo	Domain name/IP of the	S

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		origin	
Weight	OriginConfiguration.OriginRule.OriginInfo.HostInfo	Origin weight. If multiple origins are configured in the `Mirror` mode, the origins will perform origin-pull according to the weight ratio.	Ir
StandbyHostName_N	OriginConfiguration.OriginRule.OriginInfo.HostInfo	Secondary origin address. At most 10 secondary origin addresses are supported, and the node names are numbered from 1 to 10, for example, `StandbyHostName_1`, `StandbyHostName_2`, ..., and `StandbyHostName_10`.	S

Content of `FileInfo`:

Node Name (Keyword)	Parent Node	Description	Type
PrefixConfiguration	OriginConfiguration.OriginRule.OriginInfo.FileInfo	Prefix configuration for the files to pull.	Container
SuffixConfiguration	OriginConfiguration.OriginRule.OriginInfo.FileInfo	Suffix configuration for the files to pull.	Container
FixedFileConfiguration	OriginConfiguration.OriginRule.OriginInfo.FileInfo	A fixed file to pull. This parameter is left empty by default.	Container

Content of `FixedFileConfiguration`:

Node Name (Keyword)	Parent Node	Description	Type
FixedFilePath	OriginConfiguration.OriginRule.OriginInfo.FileInfo.FixedFileConfiguration	Path of a fixed file to pull.	Strin

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Content of `PrefixConfiguration` :

Node Name (Keyword)	Parent Node	Description	Type
Prefix	OriginConfiguration.OriginRule.OriginInfo.FileInfo.PrefixConfiguration	New prefix of the files to pull. This parameter is left empty by default.	String

Content of `SuffixConfiguration` :

Node Name (Keyword)	Parent Node	Description	Type
Suffix	OriginConfiguration.OriginRule.OriginInfo.FileInfo.SuffixConfiguration	New suffix of the files to pull. This parameter is left empty by default.	String

Examples

Request

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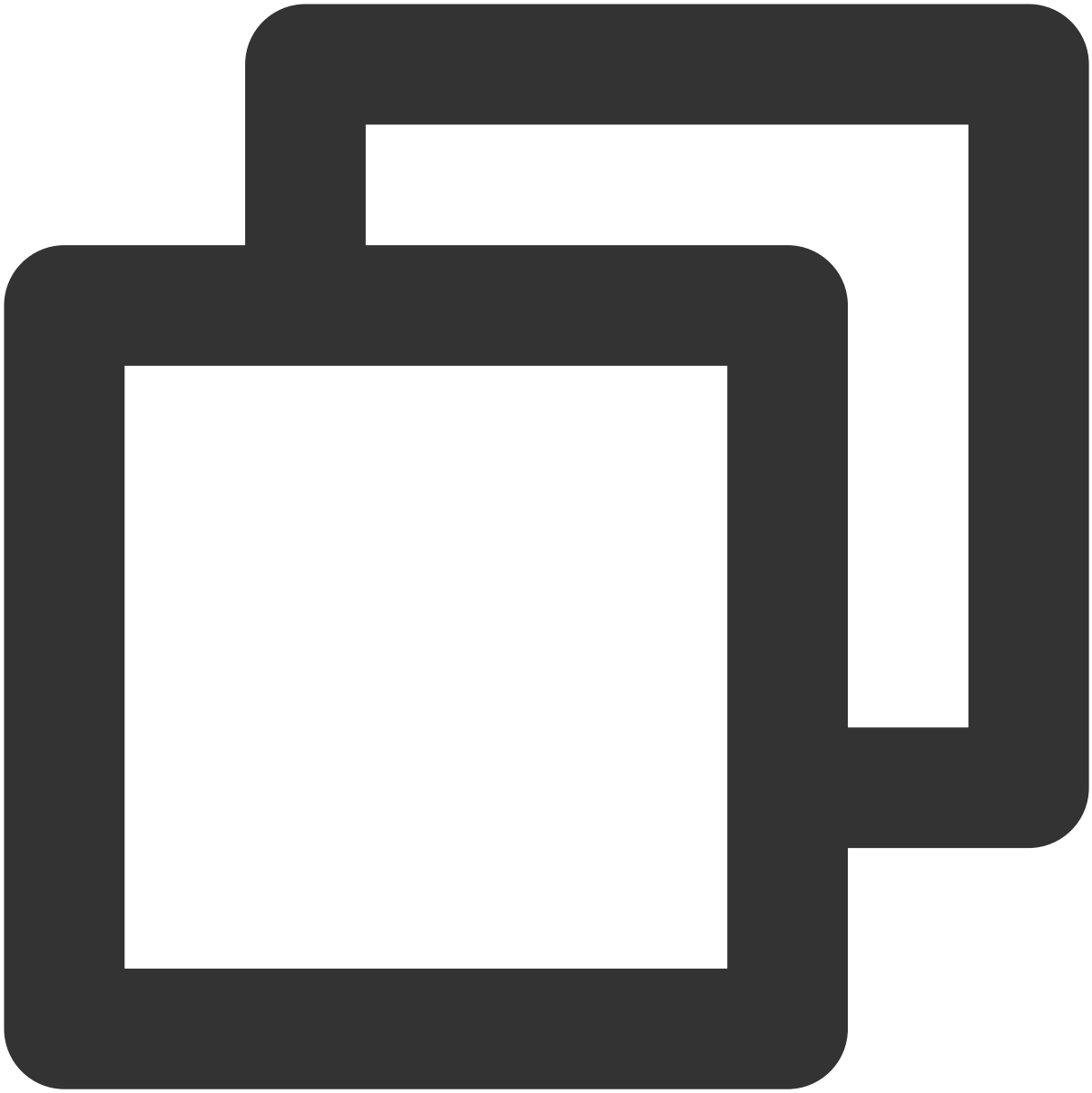

```
GET /?origin= HTTP/1.1
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
Authorization: Auth String
Date: Sun, 28 Apr 2019 12:02:24 GMT
```

Response

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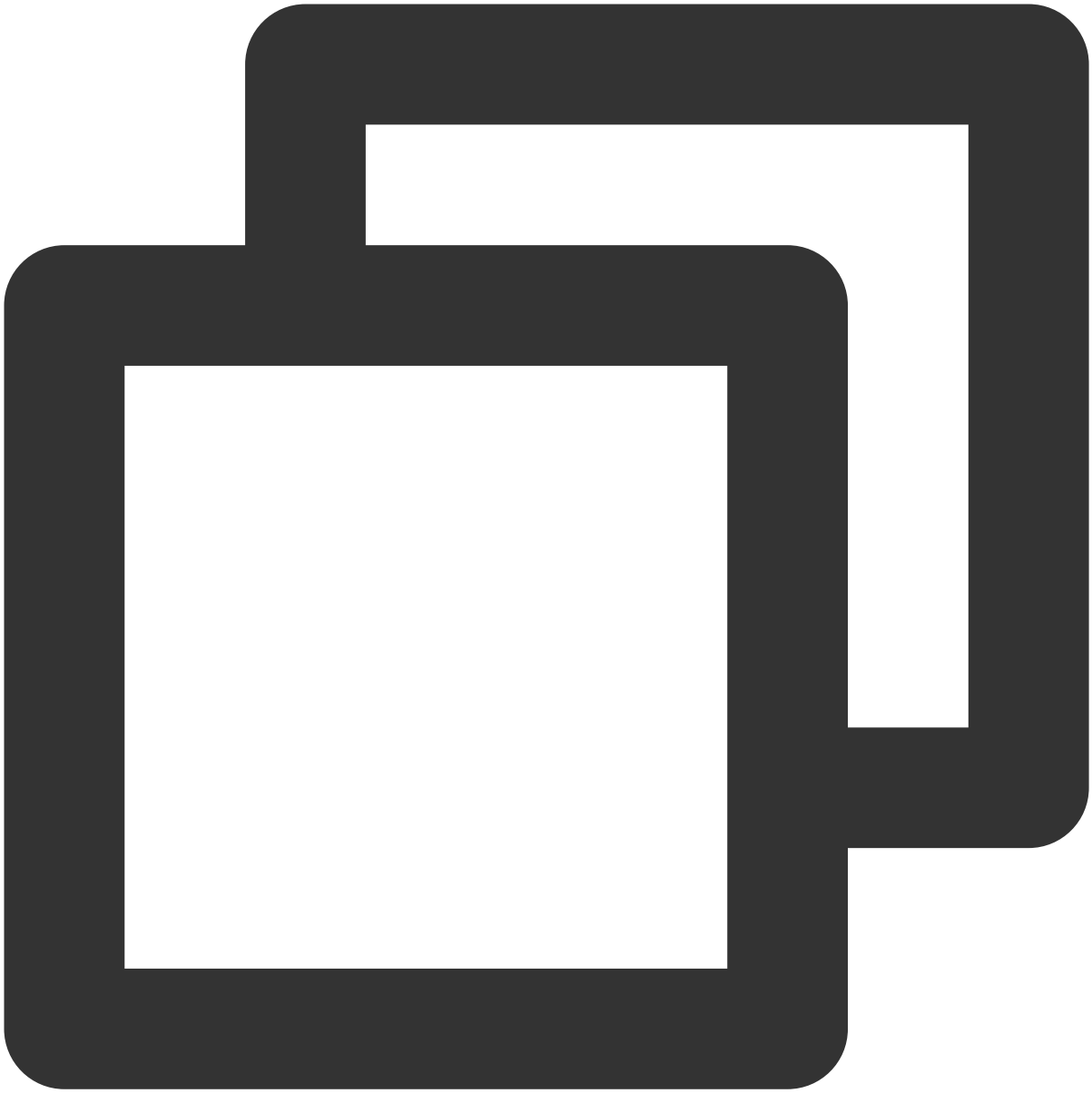

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Sun, 28 Apr 2019 12:02:25 GMT
Server: tencent-cos
x-cos-request-id: NWNjNTk2NTFfMmM4OGY3MGFfNTI1****

<?xml version="1.0" encoding="UTF-8"?>
<OriginConfiguration>
    <OriginRule>
        <OriginType>Proxy</OriginType>
```

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```
        <OriginCondition>
            <HTTPStatusCode>404</HTTPStatusCode>
            <Prefix></Prefix>
        </OriginCondition>
        <OriginParameter>
            <Protocol>FOLLOW</Protocol>
            <FollowQueryString>true</FollowQueryString>
            <HttpHeader>
                <FollowAllHeaders>true</FollowAllHeaders>
                <NewHttpHeaders>
                    <Header>
                        <Key>x-cos-ContentType</Key>
                        <Value>csv</Value>
                    </Header>
                </NewHttpHeaders>
                <FollowHttpHeaders>
                    <Header>
                        <Key>Content-Type</Key>
                    </Header>
                </FollowHttpHeaders>
            </HttpHeader>
            <FollowRedirection>true</FollowRedirection>
        </OriginParameter>
        <OriginInfo>
            <HostInfo>
                <HostName>examplebucket-1250000000.cos.ap-shanghai.myqcloud.com</Ho
            </HostInfo>
        </OriginInfo>
    </OriginRule>
</OriginConfiguration>
```

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PUT Bucket Origin

Last updated：2024-03-28 18:12:17

Overview

This API is used to set origin-pull for a bucket.

Request

Sample request

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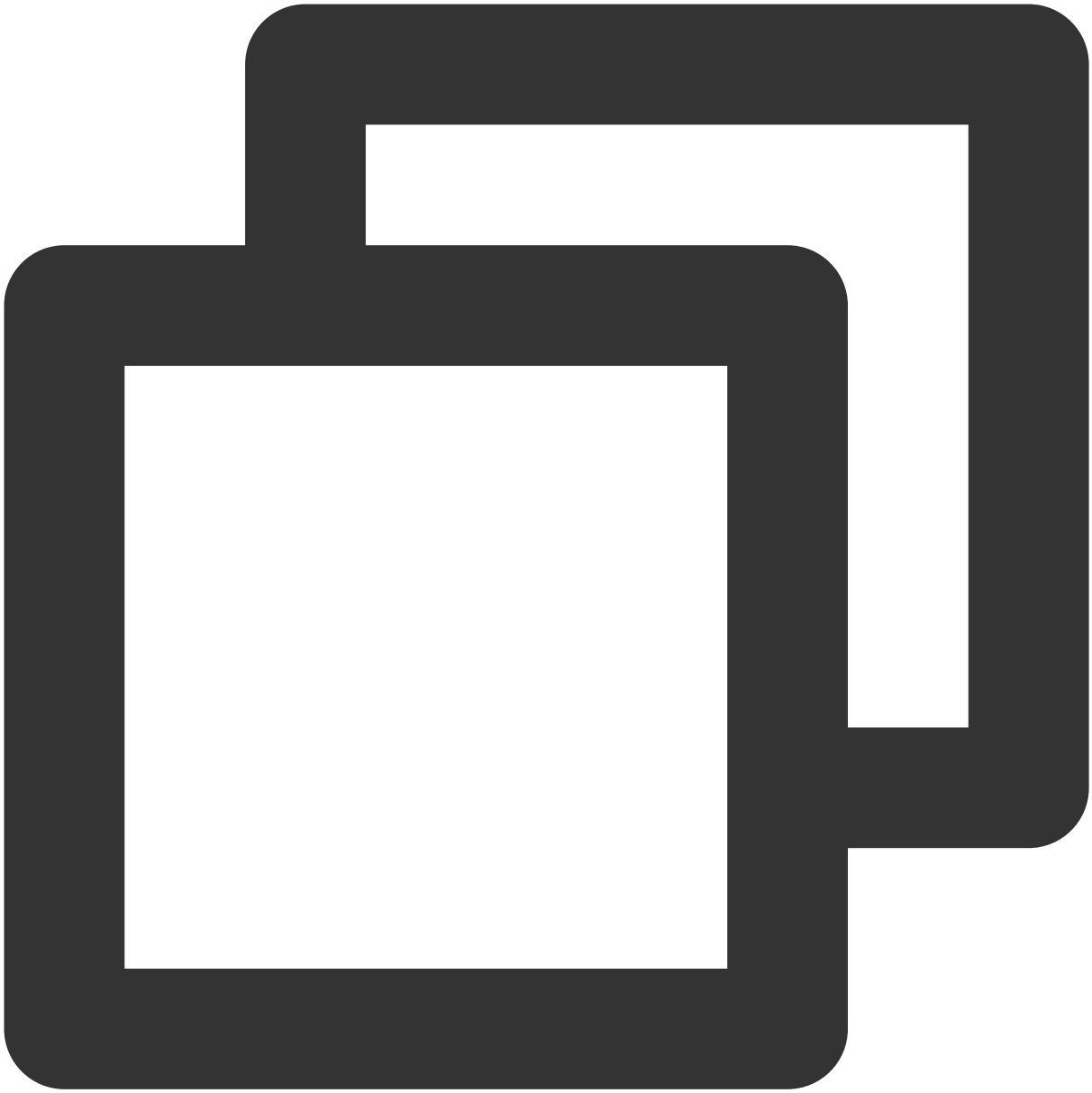

```
PUT /?origin HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

The request body is an origin-pull rule.

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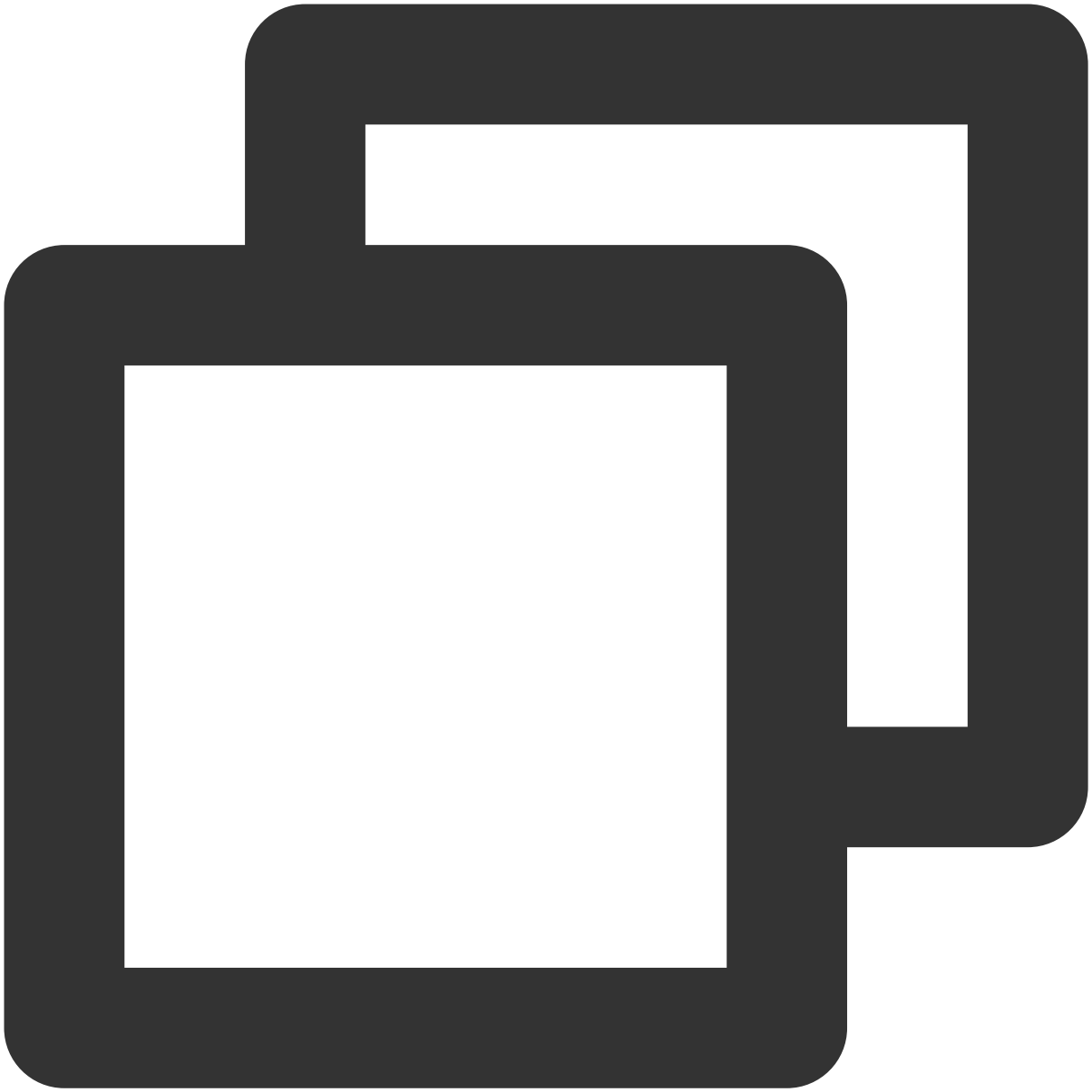

```
<OriginConfiguration>
    <OriginRule>
        <RulePriority>Integer</RulePriority>
        <OriginType>Redirect|Proxy|Mirror</OriginType>
        <OriginCondition>
            <!--The setting of the HTTP status code for origin-pull is determined b
            <HTTPStatusCode>404</HTTPStatusCode>
            <Prefix></Prefix>
        </OriginCondition>
        <OriginParameter>
            <Protocol>HTTP|HTTPS|FOLLOW</Protocol>
```

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```
            <!--Whether to retain the error code of the origin for origin-pull-->
            <TransparentErrorCode>true|false</TransparentErrorCode>
            <!--Whether to retain the raw query parameter for origin-pull. Valid va
            <FollowQueryString>true|false</FollowQueryString>
            <!--Origin-pull request header parameter-->
            <HttpHeader>
                <!--Whether to transfer all request headers for origin-pull. Valid
                <FollowAllHeaders>true|false</FollowAllHeaders>
                <!--Add specified headers for origin-pull. At most 10 headers can b
                <!--If there is a value, add a header. If the value is null, do not
                <NewHttpHeaders>
                    <Header>
                        <Key>x-cos|oss|amz-ContentType|CacheControl|ContentDisposit
                        <Value>string</Value>
                    </Header>
                </NewHttpHeaders>
                <!--Pass through the specified headers of the raw request for origi
                <FollowHttpHeaders>
                    <Header>
                        <Key>x-cos|oss|amz-ContentType|CacheControl|ContentDisposit
                    </Header>
                </FollowHttpHeaders>
                <!--Do not pass through the specified headers of the raw request fo
                <ForbidFollowHeaders>
                    <Header>
                        <Key>String</Key>
                    </Header>
                </ForbidFollowHeaders>
            </HttpHeader>
            <!--follow3xx parameter-->
            <FollowRedirection>true|false</FollowRedirection>
            <!--The redirect code parameter is optional only when the origin-pull t
            <HttpRedirectCode>301|302|307</HttpRedirectCode>
        </OriginParameter>
    <!--Error code that triggers a switchover to the secondary origin. By default,
        <HTTPStandbyCode>
            <StatusCode>404</StatusCode>
            <StatusCode>403</StatusCode>
        </HTTPStandbyCode>
        <OriginInfo>
            <!--In the `Mirror` mode, multiple origins can be set to perform origin
            <HostInfo>
                <HostName>bucketname-appid.cos.region.myqcloud.com</HostName>
                <!--Weight set for the origins. Origin-pull is performed based on t
        <Weight>4</Weight>
                <!--Secondary origin address. At most 10 secondary origin addresses
                <StandbyHostName_1>bucketname2-appid.cos.region.myqcloud.com</Stand
```

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```
                <StandbyHostName_2>bucketname3-appid.cos.region.myqcloud.com</Stand
            </HostInfo>
            <HostInfo>
                <HostName>bucketname4-appid.cos.region.myqcloud.com</HostName>
                <!--Weight set for the origins. Origin-pull is performed based on t
                <Weight>2</Weight>
                <!--Secondary origin address. At most 10 secondary origin addresses
                <StandbyHostName_1>bucketname5-appid.cos.region.myqcloud.com</Stand
                <StandbyHostName_2>bucketname6-appid.cos.region.myqcloud.com</Stand
            </HostInfo>
            <FileInfo>
                <!--A specified file to pull-->
                <FixedFileConfiguration>
                    <FixedFilePath>String</FixedFilePath>
                </FixedFileConfiguration>
                <!--New prefix of the origin-pull filename-->
                <Prefix></Prefix>
                <!--New suffix of the origin-pull filename-->
                <Suffix></Suffix>
            </FileInfo>
        </OriginInfo>
    </OriginRule>
</OriginConfiguration>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
OriginConfiguration	None	Origin-pull configuration	Container	Yes

Content of `OriginConfiguration` :

Node Name (Keyword)	Parent Node	Description	Type	Required
OriginRule	OriginConfiguration	Origin-pull rule. More than one `OriginRule` are supported, which are applied in order of priority.	Container	Yes

Content of `OriginRule` :

Node Name (Keyword)	Parent Node	Description	Type	Required
RulePriority	OriginConfiguration.OriginRule	Priority of the rule	Integer	Yes
OriginType	OriginConfiguration.OriginRule	Origin-pull type.	Container	Yes

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		Enumerated values: `Proxy` (async origin-pull), `Mirror` (sync origin-pull), `Redirect` (redirection-based origin-pull)		
OriginCondition	OriginConfiguration.OriginRule	Origin-pull conditions, such as the HTTP protocol	Container	Yes
OriginParameter	OriginConfiguration.OriginRule	Origin address configuration	Container	Yes
OriginInfo	OriginConfiguration.OriginRule	Information about the origin, such as its domain name or IP	Container	Yes

Content of `OriginCondition` :

Node Name (Keyword)	Parent Node	Description	Type	Required
HTTPStatusCode	OriginConfiguration.OriginRule.OriginCondition	HTTP status code that triggers origin-pull. Set this parameter to `404` for the origin-pull of the `Proxy` or `Mirror` type and to `4XX` or `5XX` for the origin-pull of the `Redirect` type.	String	Yes
Prefix	OriginConfiguration.OriginRule.OriginCondition	Filename prefix that triggers origin-pull. By default, this parameter is left empty, meaning that	String	No

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		any file can trigger origin-pull.		

Content of `OriginParameter`:

Node Name (Keyword)	Parent Node	Description	Type	Requir
Protocol	OriginConfiguration.OriginRule.OriginParameter	Protocol used for origin-pull. Enumerated values: `HTTP`, `HTTPS`, `FOLLOW` (default, meaning to follow the user protocol)	String	Yes
FollowQueryString	OriginConfiguration.OriginRule.OriginParameter	Whether to pass through the HTTP request string for origin-pull. Enumerated values: `true` (default), `false`	Boolean	No
HttpHeader	OriginConfiguration.OriginRule.OriginParameter	Whether to set HTTP header transferring	Container	No
FollowRedirection	OriginConfiguration.OriginRule.OriginParameter	Redirection policy for 3xx responses. Enumerated values: `true` (default): Pulls resources	Boolean	No

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		from the origin and saves the resources to COS for 3xx responses. `false`: Passes through 3xx responses without requesting the resources.		
HttpRedirectCode	OriginConfiguration.OriginRule.OriginParameter	Return code set only for the `Redirect` or `Proxy` mode. Enumerated values: `301`, `302` (default), `307`	String	No

Content of `HttpHeader`:

Node Name (Keyword)	Parent Node	Description	Type
FollowHttpHeader	OriginConfiguration.OriginRule.OriginParameter.HttpHeader	Whether to transfer all request headers. Enumerated values: `true`, `false` (default)	Boolear
NewHttpHeaders	OriginConfiguration.OriginRule.OriginParameter.HttpHeader	Specified headers to	Contain

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		add during origin-pull. At most 10 headers are supported.	
NewHttpHeader	OriginConfiguration.OriginRule.OriginParameter.HttpHeader	Headers in the raw request that are to pass through during origin-pull	Contain
ForbidFollowHeaders	OriginConfiguration.OriginRule.OriginParameter.HttpHeader	Headers in the raw request that are not to pass through during origin-pull	Contain

Content of `NewHttpHeaders` , `FollowHttpHeaders` , and `ForbidFollowHeaders` :

Node Name (Keyword)	Parent Node	Description	Typ
Header	OriginConfiguration.OriginRule.OriginParameter.HttpHeader.NewHttpHeader	Custom headers to add or transfer during origin-pull. This parameter is left empty by default.	Co

Content of `Header` :

Node Name	Parent Node	Des

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(Keyword)		
Key	OriginConfiguration.OriginRule.OriginParameter.HttpHeader.NewHttpHeader.UserMetaData	Nar `Cor`
Value	OriginConfiguration.OriginRule.OriginParameter.HttpHeader.NewHttpHeader.UserMetaData	Valu

Content of `OriginInfo` :

Node Name (Keyword)	Parent Node	Description	Type	Required
HostInfo	OriginConfiguration.OriginRule.OriginInfo	Origin information. In the `Mirror` mode, multiple origins can be set to perform origin-pull based on the ratio, so that they can share the origin-pull traffic of a single origin. At most 10 origin addresses are supported, and the ratio is set by weight. In the `Proxy` or `Redirect` mode, only one origin can be set.	Container	Yes
FileInfo	OriginConfiguration.OriginRule.OriginInfo	Information about the pulled file	Container	Yes

Content of `HostInfo` :

Node Name (Keyword)	Parent Node	Description	T
HostName	OriginConfiguration.OriginRule.OriginInfo.HostInfo	Domain name/IP of the origin	S
Weight	OriginConfiguration.OriginRule.OriginInfo.HostInfo	Origin weight. If multiple origins are configured in the `Mirror` mode, they will perform origin-pull according to the weight ratio.	Ir

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StandbyHostName_N	OriginConfiguration.OriginRule.OriginInfo.HostInfo	Secondary origin address. At most 10 secondary origin addresses are supported, and the node names are numbered from 1 to 10, for example, `StandbyHostName_1`, `StandbyHostName_2`, ..., and `StandbyHostName_10`.	S

Content of `FileInfo`:

Node Name (Keyword)	Parent Node	Description
Prefix	OriginConfiguration.OriginRule.OriginInfo.FileInfo.PrefixConfiguration	New prefix of the files to pull. This parameter is left empty by default.
Suffix	OriginConfiguration.OriginRule.OriginInfo.FileInfo.SuffixConfiguration	New suffix of the files to pull. This parameter is left empty by default.
FixedFileConfiguration	OriginConfiguration.OriginRule.OriginInfo.FileInfo	A fixed file to pull. This parameter is left empty by default.

Content of `FixedFileConfiguration`:

Node Name	Parent Node	Description	Type

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(Keyword)			
FixedFilePath	OriginConfiguration.OriginRule.OriginInfo.FileInfo.FixedFileConfiguration	Path of a fixed file to pull	Strin

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example 1: Common `Mirror` mode

Request

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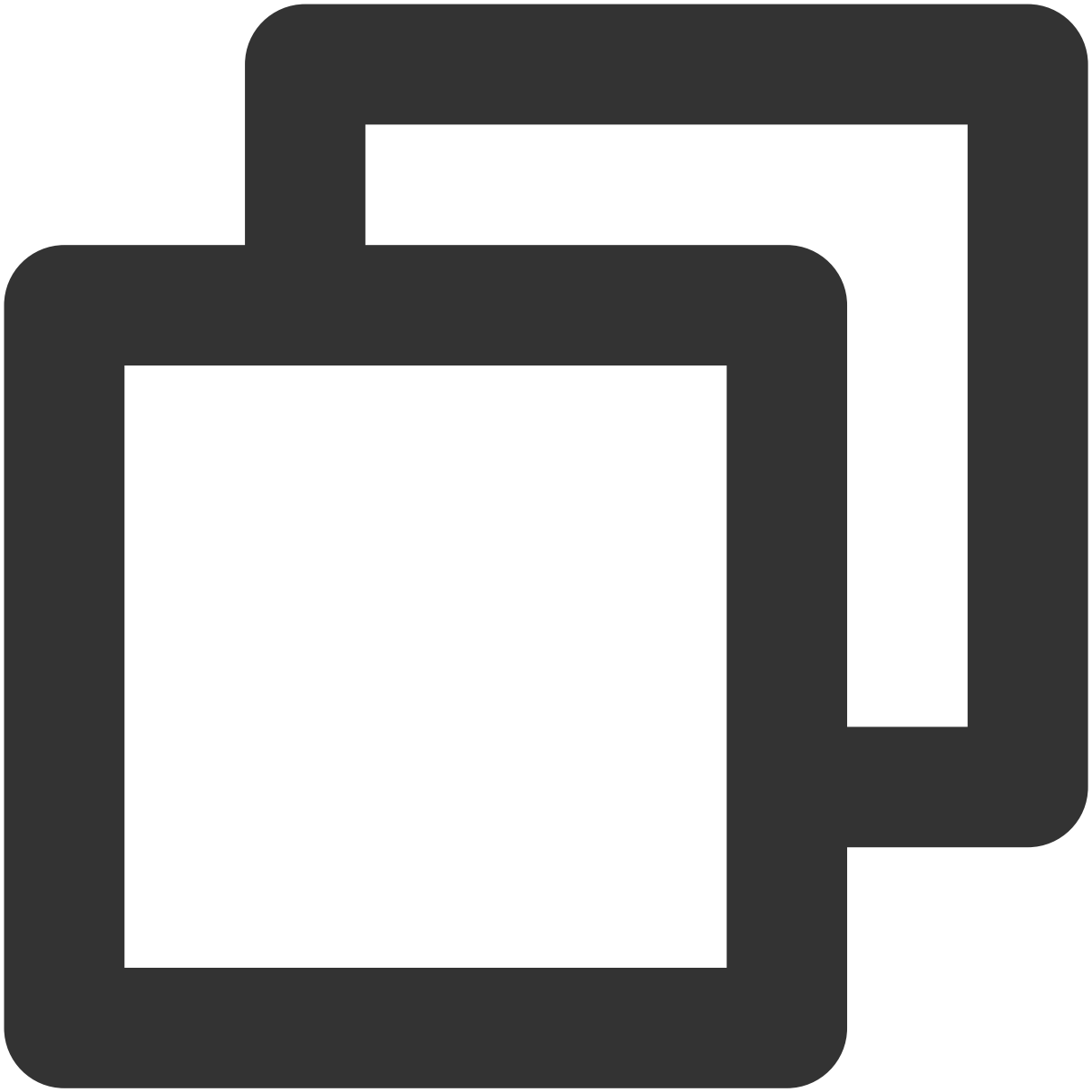

```
PUT /?origin= HTTP/1.1
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj****&q-si
Content-Length: 347
Date: Sun, 28 Apr 2019 12:02:24 GMT

<?xml version="1.0" encoding="UTF-8"?>
<OriginConfiguration>
  <OriginRule>
    <RulePriority>1</RulePriority>
    <OriginType>Mirror</OriginType>
```

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```
    <OriginCondition>
      <HTTPStatusCode>404</HTTPStatusCode>
      <Prefix></Prefix>
    </OriginCondition>
    <OriginParameter>
      <Protocol>HTTP</Protocol>
      <FollowQueryString>true</FollowQueryString>
      <HttpHeader>
        <FollowAllHeaders>false</FollowAllHeaders>
        <NewHttpHeaders>
          <Header>
            <Key>x-cos</Key>
            <Value>exampleHeader</Value>
          </Header>
        </NewHttpHeaders>
        <FollowHttpHeaders>
          <Header>
            <Key>exampleHeaderKey</Key>
          </Header>
        </FollowHttpHeaders>
      </HttpHeader>
      <FollowRedirection>true</FollowRedirection>
      <HttpRedirectCode>302</HttpRedirectCode>
    </OriginParameter>
    <OriginInfo>
      <HostInfo>
        <HostName>examplebucket-1250000000.cos.ap-shanghai.myqcloud.com</HostName>
      </HostInfo>
    </OriginInfo>
  </OriginRule>
</OriginConfiguration>
```

Response

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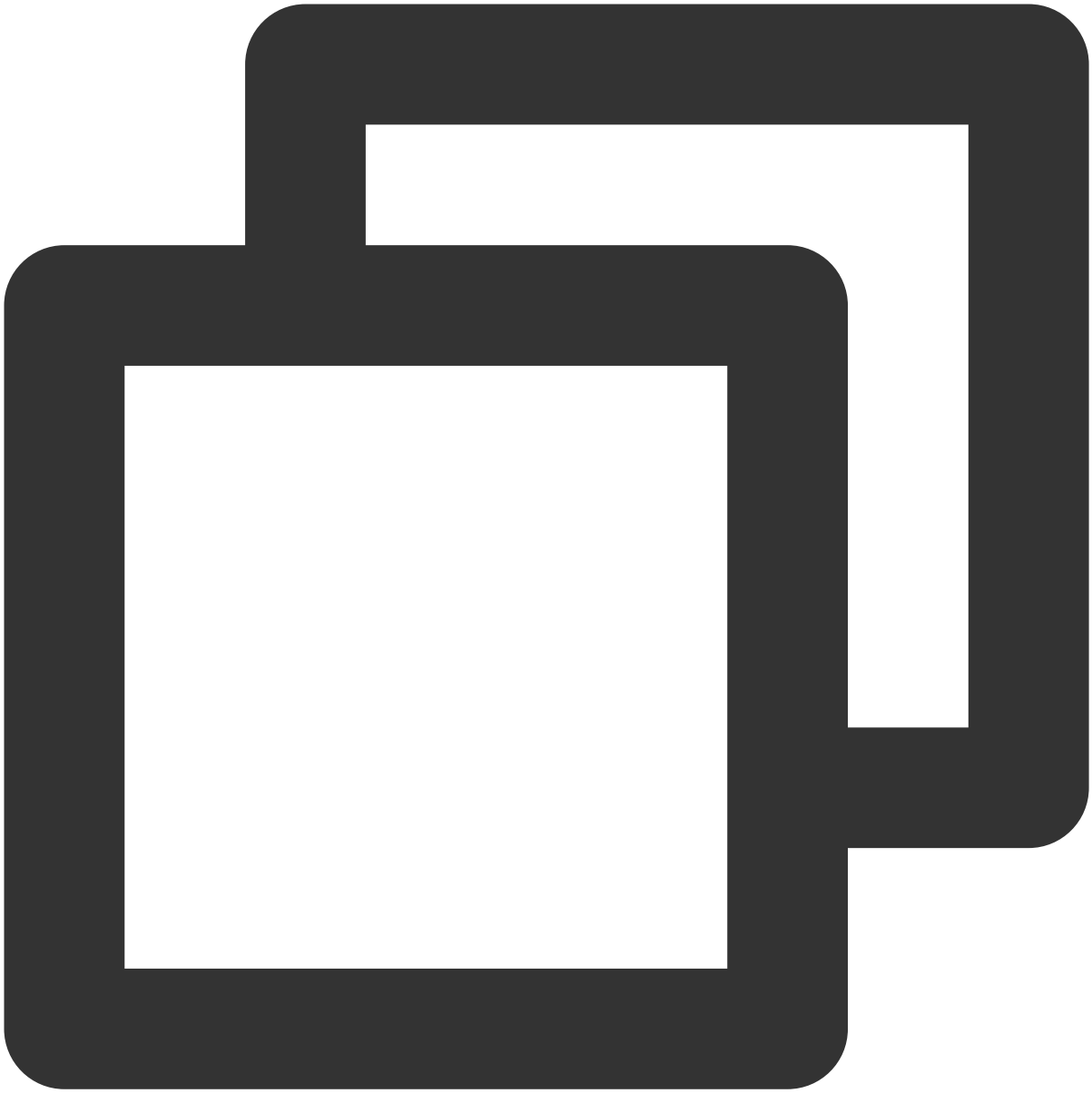

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Sun, 28 Apr 2019 12:02:45 GMT
Server: tencent-cos
x-cos-request-id: NWNjNTk2NTFfMmM4OGY3MGFfNadfadsfY2****
```

Example 2: `Mirror` mode with weight

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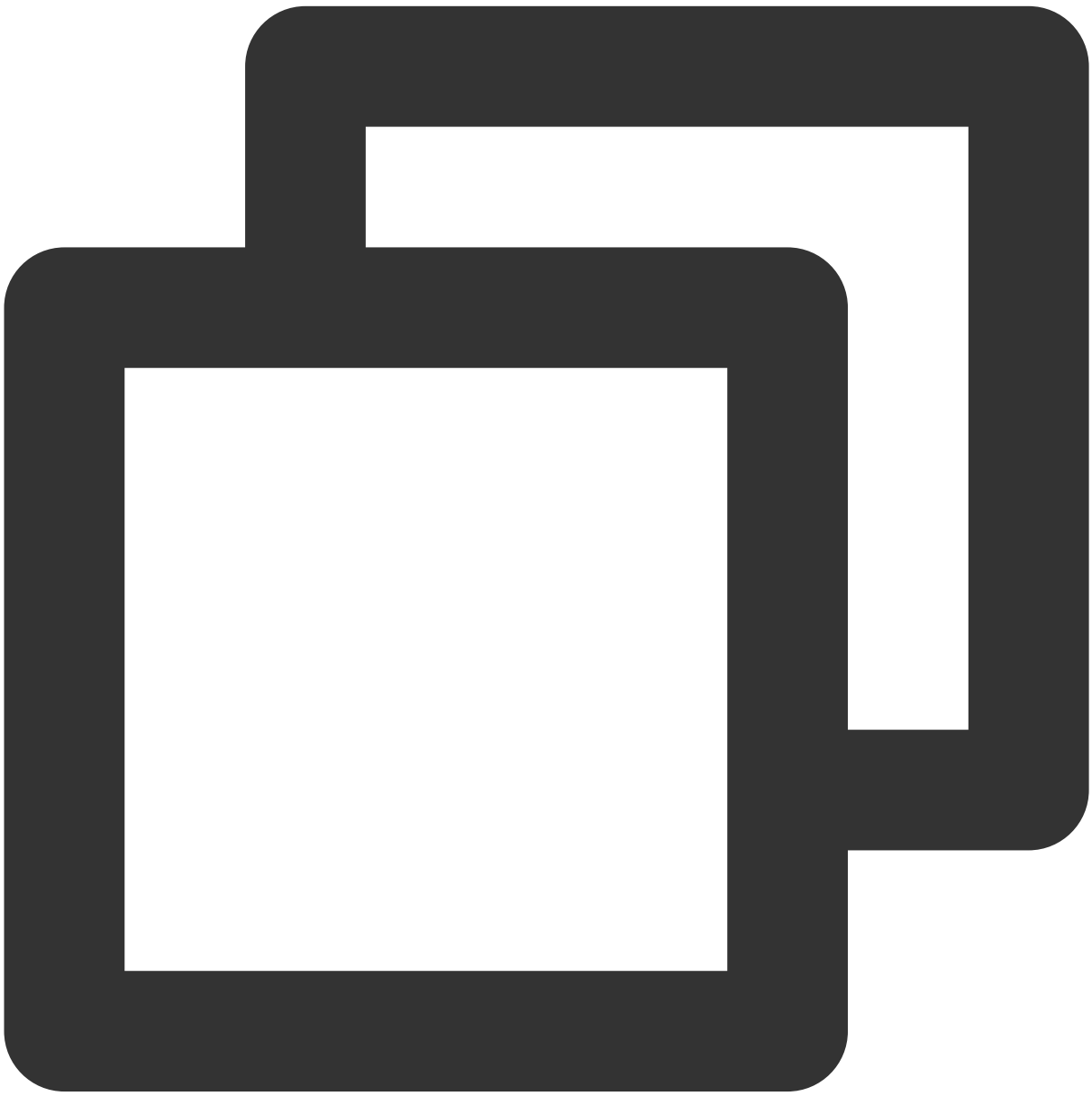
In the following example, all headers except `x-cos-example-header` in the raw request will be passed through during origin-pull. The rule specifies two origins: origin 1 `bucketname1-appid.cos.region.myqcloud.com` and origin 2 `bucketname2-appid.cos.region.myqcloud.com` . Origins 1 and 2 are configured with weights 8 and 2, respectively. To be specific, 80% origin-pull requests will be sent to origin 1 and 20% to origin 2.

Request



```
PUT /?origin= HTTP/1.1
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
Authorization:Authstring
```

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```
Content-Length:Content-Length
DATE:Sun, 28 Apr 2019 12:02:24 GMT

<?xml version="1.0" encoding="UTF-8"?>
<OriginConfiguration>
    <OriginRule>
        <RulePriority>1</RulePriority>
        <OriginType>Mirror</OriginType>
        <OriginCondition>
            <HTTPStatusCode>404</HTTPStatusCode>
            <Prefix></Prefix>
        </OriginCondition>
        <OriginParameter>
            <Protocol>HTTPS</Protocol>
            <FollowQueryString>true</FollowQueryString>
            <HttpHeader>
                <FollowAllHeaders>true</FollowAllHeaders>
                <ForbidFollowHeaders>
                    <Header>
                        <Key>x-cos-example-header</Key>
                    </Header>
                </ForbidFollowHeaders>
            </HttpHeader>
        </OriginParameter>
        <OriginInfo>
            <HostInfo>
                <HostName>bucketname1-appid.cos.region.myqcloud.com</HostName>
                <Weight>8</Weight>
            </HostInfo>
            <HostInfo>
                <HostName>bucketname2-appid.cos.region.myqcloud.com</HostName>
                <Weight>2</Weight>
            </HostInfo>
        </OriginInfo>
    </OriginRule>
</OriginConfiguration>
```

Response

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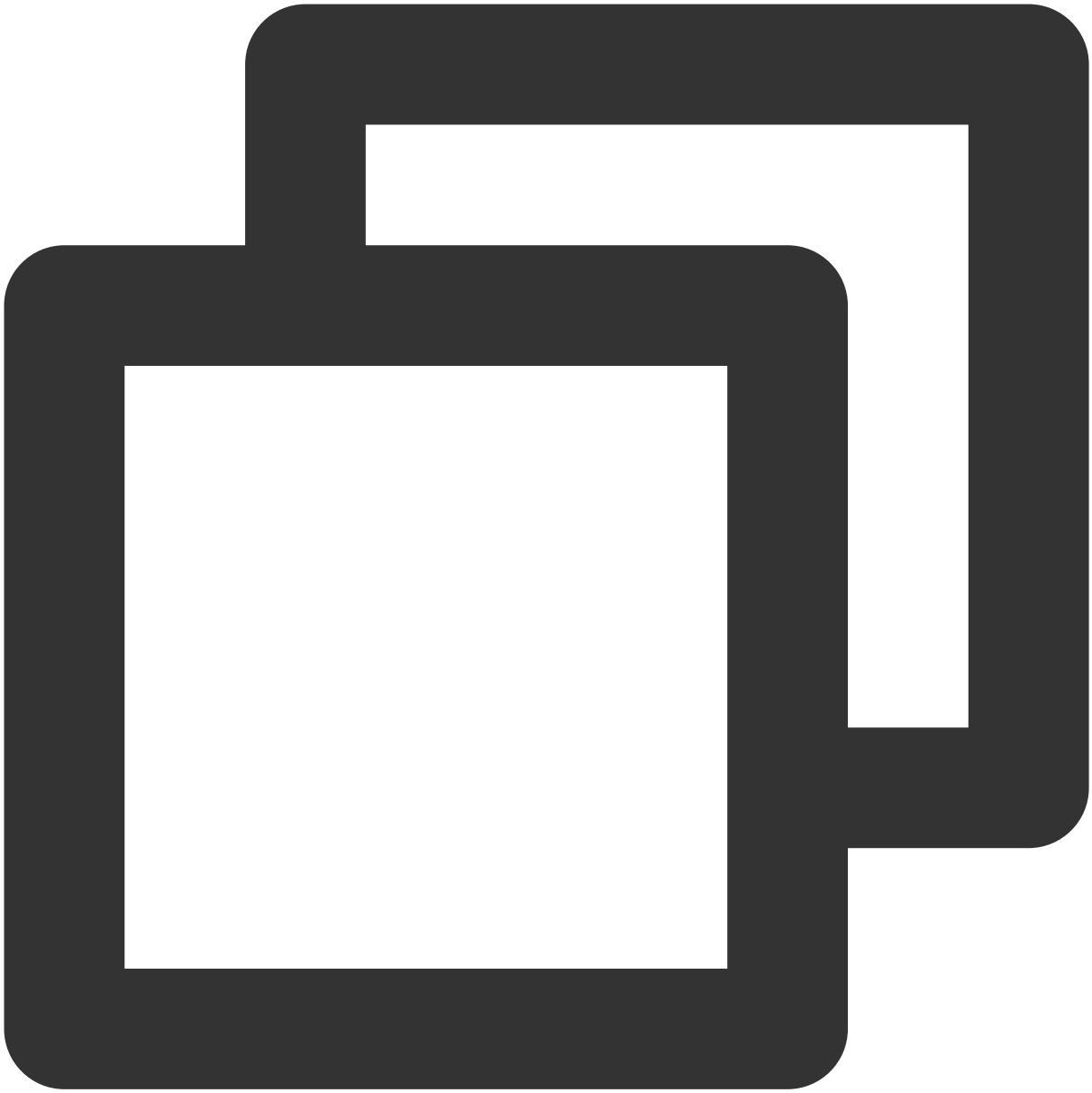

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Sun, 28 Apr 2019 12:02:25 GMT
Server: tencent-cos
x-cos-request-id: NWNjNTk2NTFfMmM4OGY3MGFfNTI1****
```

Example 3: `Proxy` mode

Request

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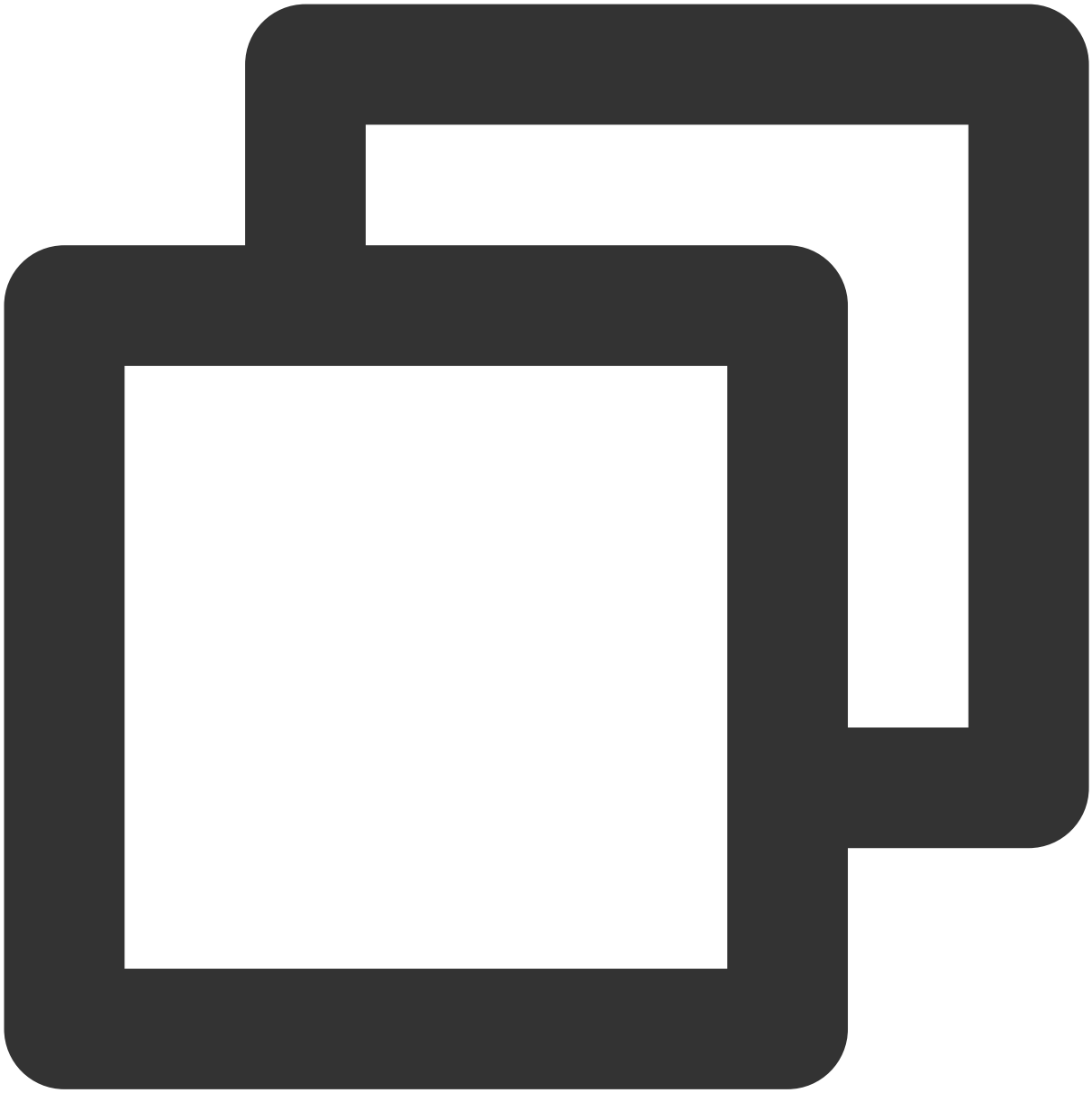

```
PUT /?origin= HTTP/1.1
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
Authorization:Authstring
Content-Length: 347
DATE:Sun, 28 Apr 2019 12:02:24 GMT

<?xml version="1.0" encoding="UTF-8"?>
<OriginConfiguration>
  <OriginRule>
    <RulePriority>1</RulePriority>
    <OriginType>Proxy</OriginType>
```

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```
    <OriginCondition>
        <HTTPStatusCode>404</HTTPStatusCode>
        <Prefix></Prefix>
    </OriginCondition>

    <OriginParameter>
        <Protocol>FOLLOW</Protocol>
        <FollowQueryString>true</FollowQueryString>
        <HttpHeader>
            <FollowAllHeaders>true</FollowAllHeaders>
            <NewHttpHeaders>
                <Header>
                    <Key>x-cos-ContentType</Key>
                    <Value>csv</Value>
                </Header>
            </NewHttpHeader>
            <FollowHttpHeaders>
                <Header>
                    <Key>Content-Type</Key>
                </Header>
            </FollowHttpHeaders>
        </HttpHeader>
        <FollowRedirection>true</FollowRedirection>
    </OriginParameter>

    <OriginInfo>
        <HostInfo>
            <HostName>examplebucket-1250000000.cos.ap-shanghai.myqcloud.com</HostNa
        </HostInfo>
    </OriginInfo>
  </OriginRule>
</OriginConfiguration>
```

Response

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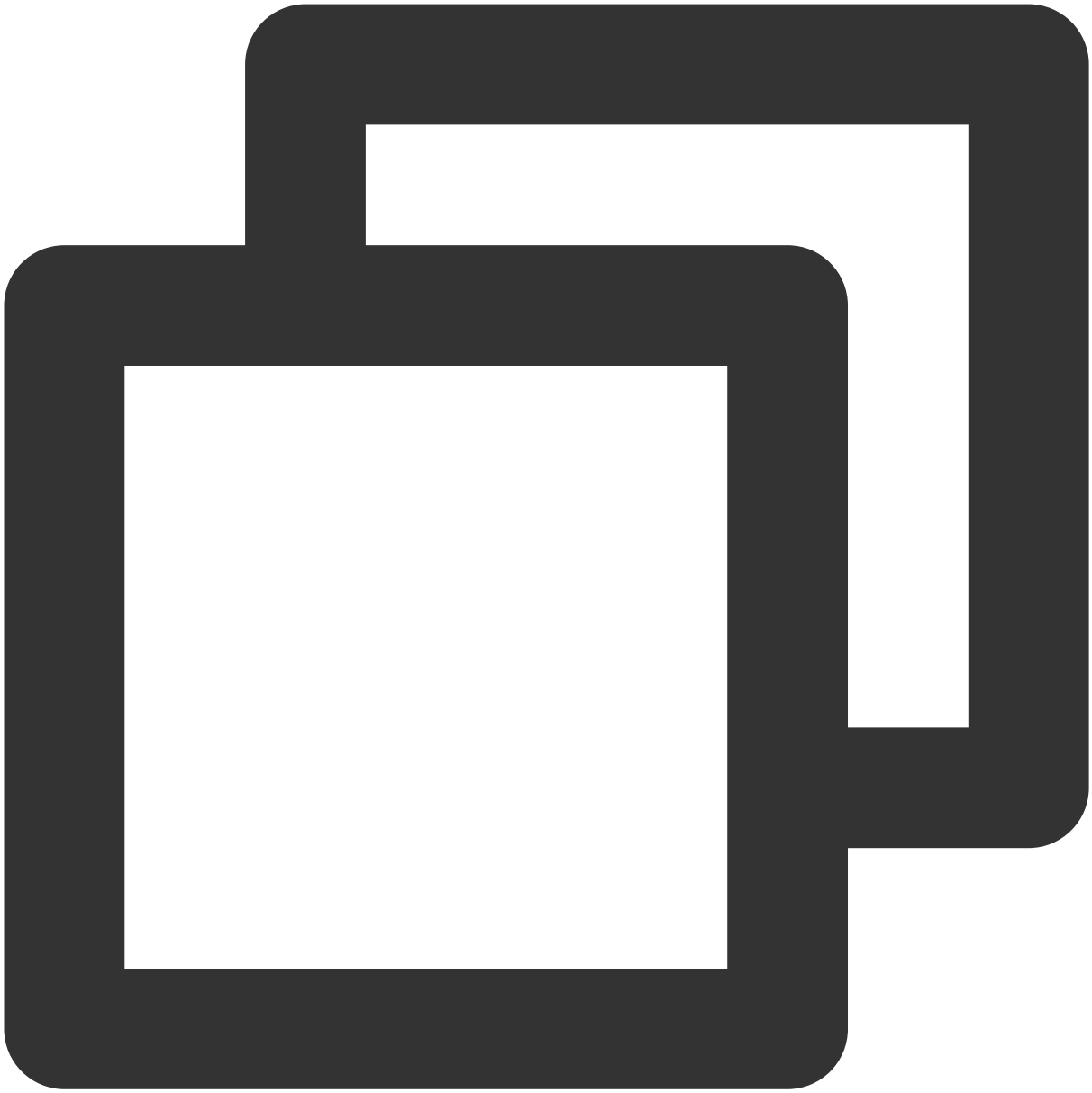

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Sun, 28 Apr 2019 12:02:45 GMT
Server: tencent-cos
x-cos-request-id: NWNjNTk2NTFfMmM4OGY3MGFfNadfadsfY****
```

Example 4: `Redirect` mode

Request

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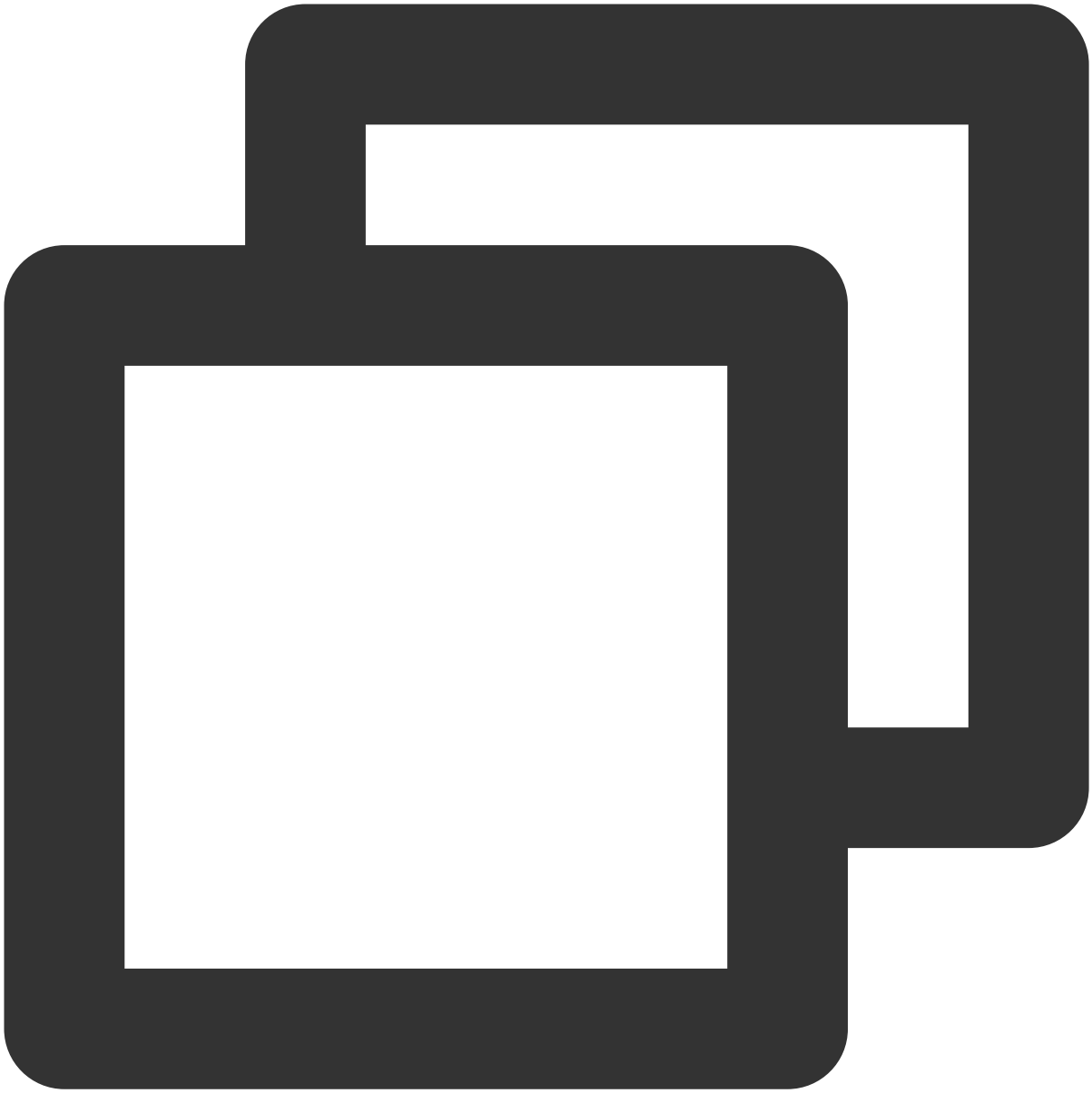

```
PUT /?origin= HTTP/1.1
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
Authorization:Authstring
Content-Length: 347
DATE:Sun, 28 Apr 2019 12:02:24 GMT

<?xml version="1.0" encoding="UTF-8"?>
<OriginConfiguration>
  <OriginRule>
    <RulePriority>1</RulePriority>
    <OriginType>Redirect</OriginType>
```

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```
    <OriginCondition>
        <HTTPStatusCode>403</HTTPStatusCode>
        <Prefix></Prefix>
    </OriginCondition>
    <OriginParameter>
        <HttpRedirectCode>301</HttpRedirectCode>
    </OriginParameter>
    <OriginInfo>
        <HostInfo>
        <HostName>examplebucket-1250000000.cos.ap-shanghai.myqcloud.com</HostName>
        </HostInfo>
    </OriginInfo>
  </OriginRule>
</OriginConfiguration>
```

Response

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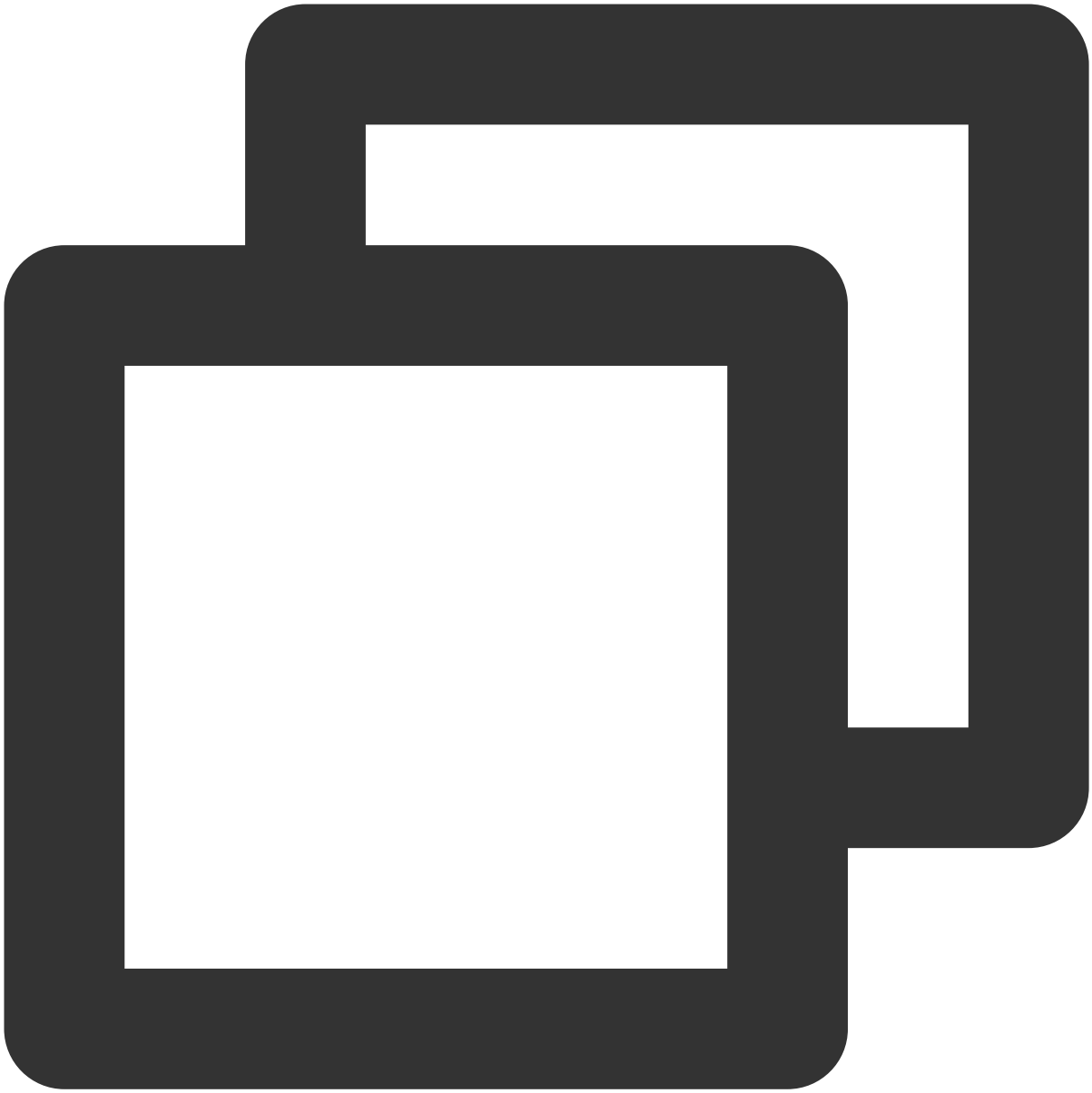

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Date: Sun, 28 Apr 2019 12:02:25 GMT
Server: tencent-cos
x-cos-request-id: NWNjNTk2NTFfMmM4OGY3MGFfNTI1****
```

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DELETE Bucket Origin

Last updated：2024-03-28 18:12:17

Overview

This API is used to delete the origin-pull configuration of a bucket.

Request

Sample request

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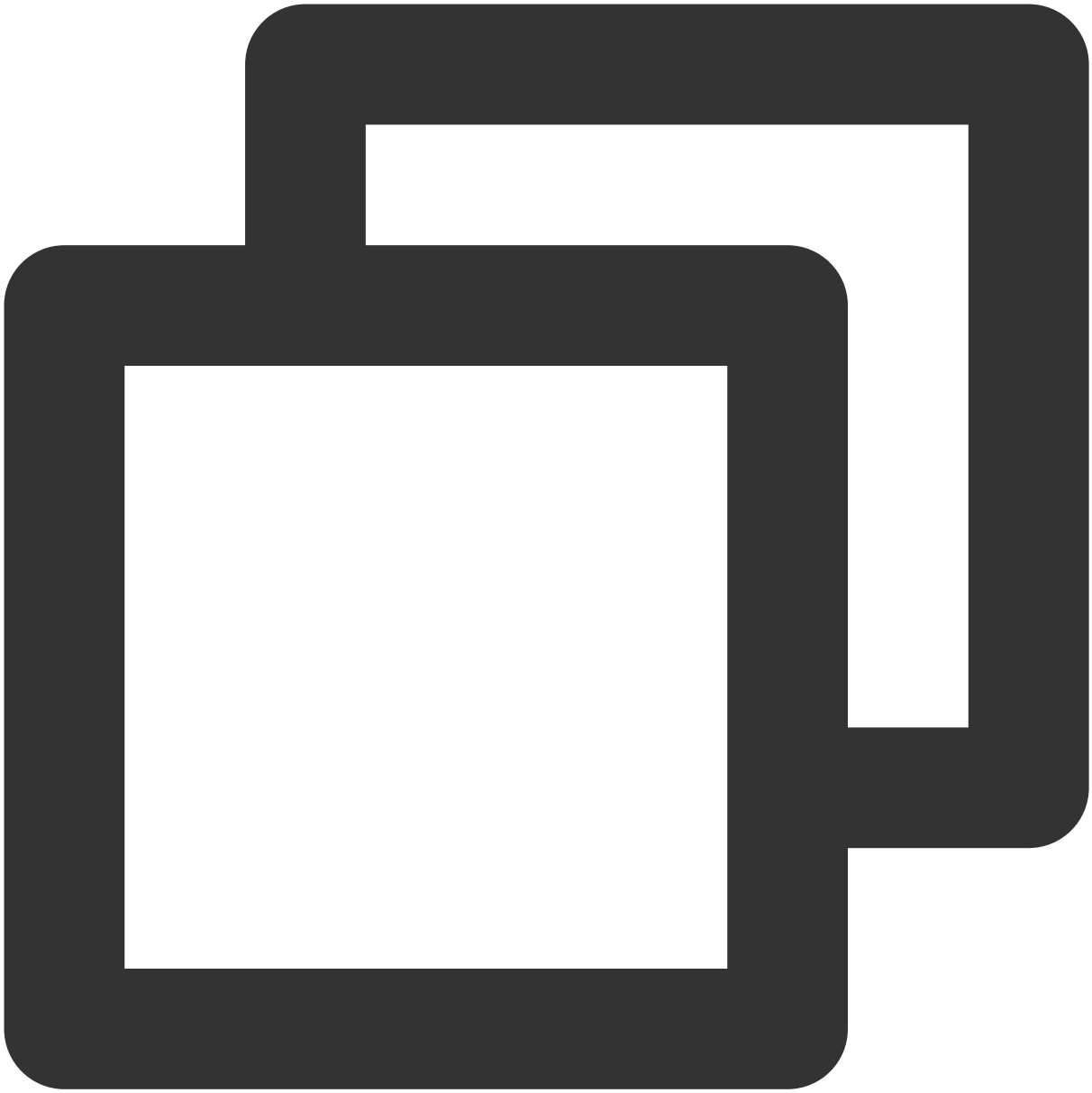

```
DELETE /?origin HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Examples

Request

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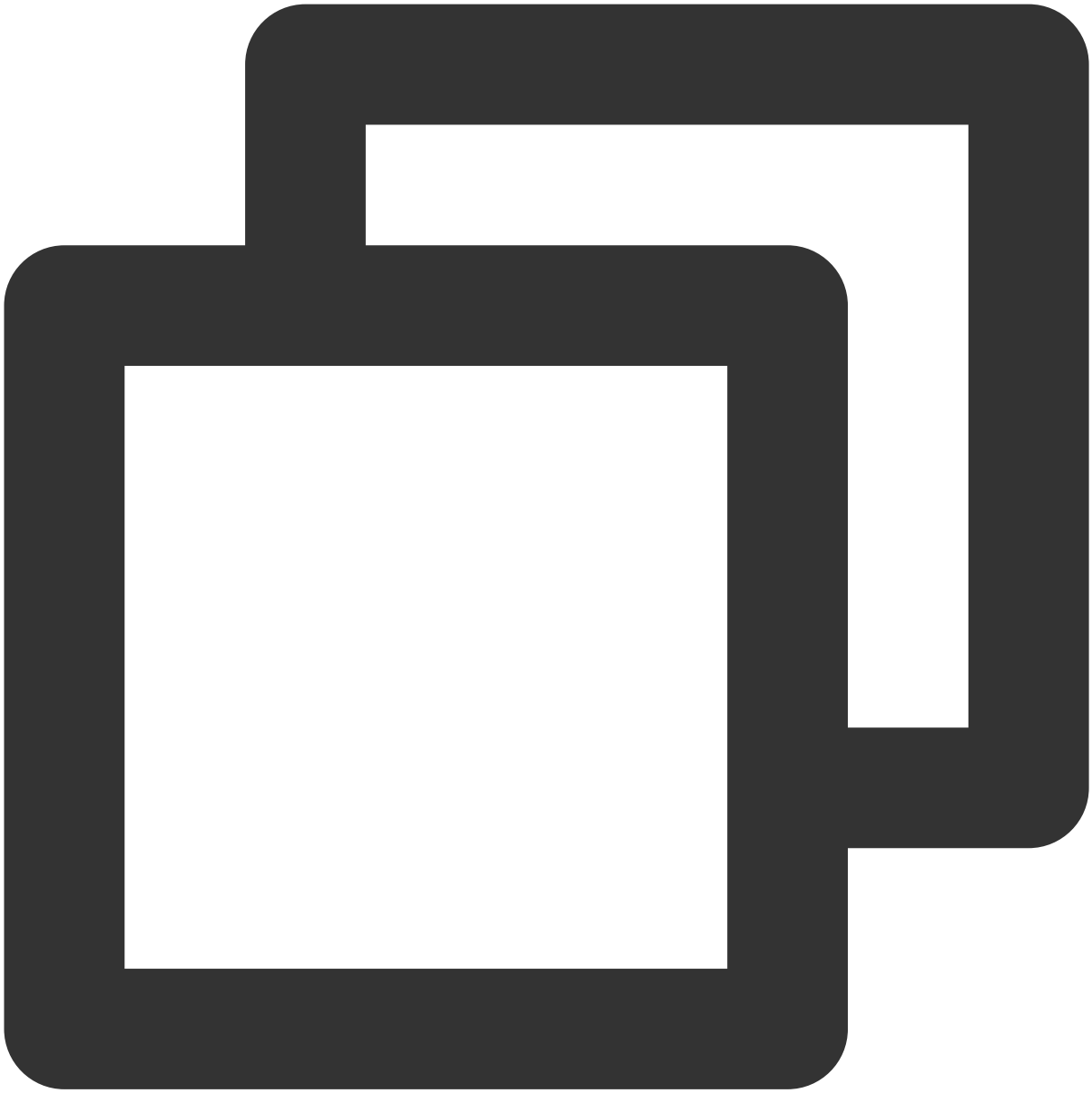

```
DELETE /?origin= HTTP/1.1
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
Authorization: Auth String
Date: Sun, 28 Apr 2019 12:02:24 GMT
```

Response

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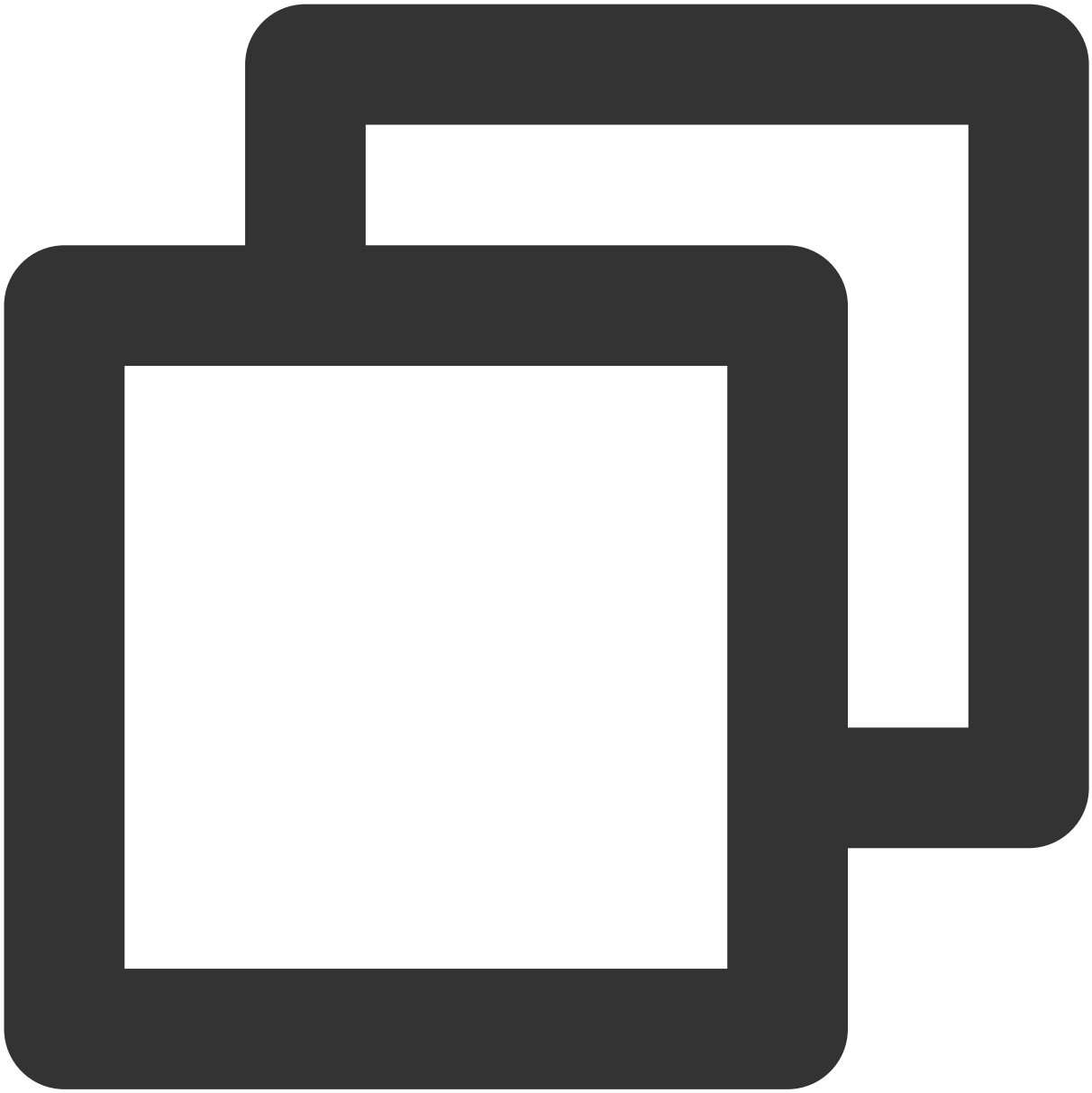

```
HTTP/1.1 204 No Content
Server: tencent-cos
Date: Mon, 28 Aug 2018 02:53:40 GMT
x-cos-request-id: NWNjNTk2NTFfMmM4OGY3MGFfNTI1****
```

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Object APIs
Basic Operations
PUT Object

Last updated：2024-06-12 15:10:38

Function Description

The PUT Object interface request facilitates the upload of local objects into a designated storage bucket. The requester of this API must possess write permissions for the storage bucket.

Note:

The PUT Object interface supports the uploading of a maximum of 5 GB files. For files larger than 5 GB, use the Multipart Upload API.

If the **Content-Length** value in the request header is smaller than the actual data length transmitted in the request body, COS will still successfully create the file. However, the object size will only be equivalent to the size defined in **Content-Length**, and any additional data will be discarded.

If an attempt is made to add an existing object with the same name without enabling version control, the newly uploaded object will overwrite the original object, returning a 200 OK message upon success.

There is no concept of folders and directories in COS. To upload an object to a specific folder or path, you can use /. For instance, to upload **picture.png** to the **doc** folder, the object key should be set as **doc/picture.png**. To create a **doc** folder, the object key should be set as **doc/**. For more instructions, refer to Folder and directory.

Version Control

Upon the enabling of version control for a bucket, COS will automatically generate a unique version ID for the object to be added. This identifier is returned in the response via the x-cos-version-id response header by COS.

If version control of the bucket is paused, COS will consistently use null as the version ID for the objects stored in the bucket, and it will not return the x-cos-version-id response header.

Request

Request Example

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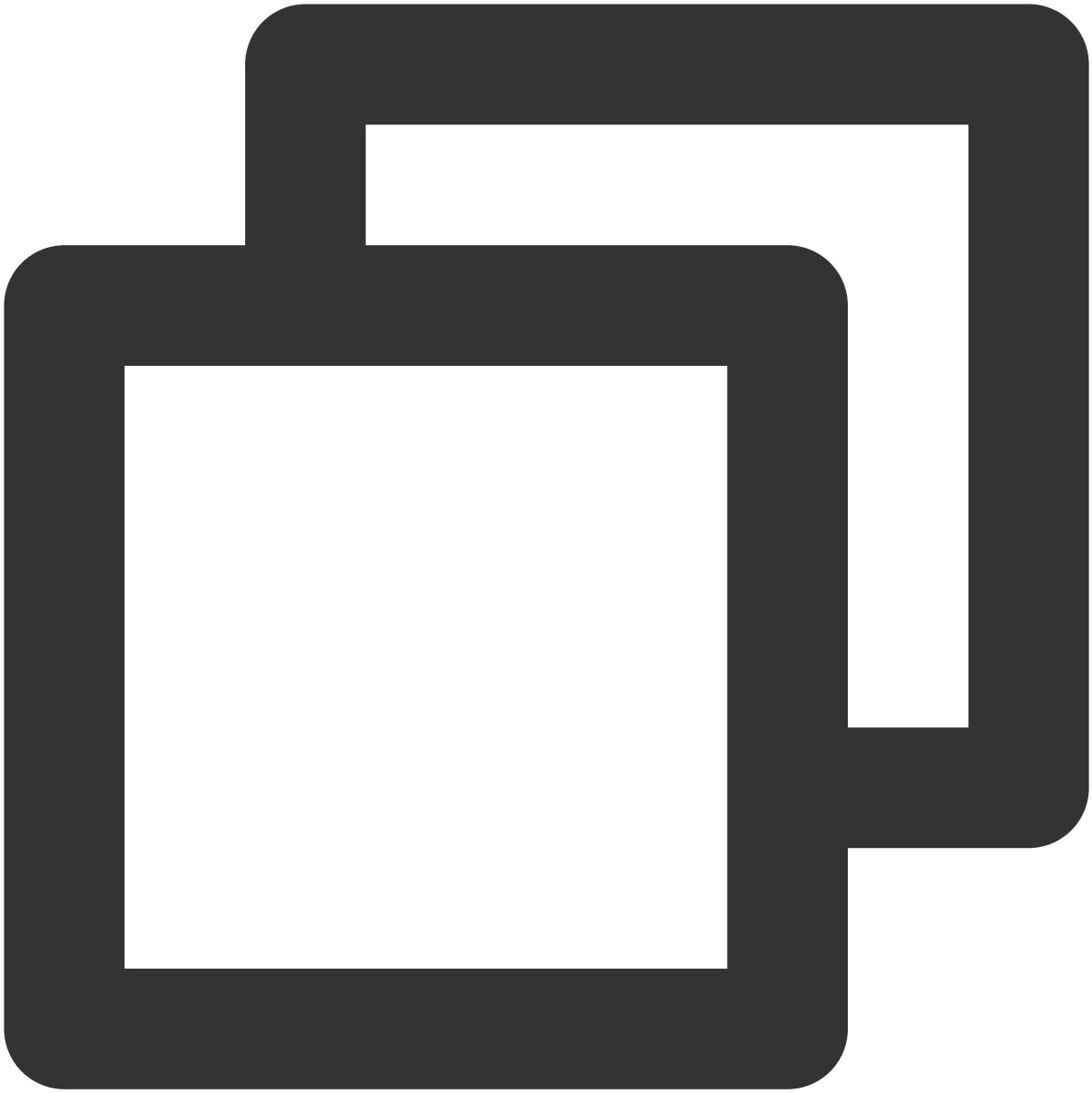

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: Content Type
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String



[Object Content]
```

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Note:

Host: <BucketName-APPID>.cos.<Region>.myqcloud.com. <BucketName-APPID> indicates the bucket name suffixed with APPID, for instance, examplebucket-1250000000. Refer to Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions. <Region> indicates the available regions of COS, for which you can refer to Regions and Access Endpoints.

Authorization: Auth String (for more details, refer to Request Signature).

Request Parameters

This interface does not require any request parameters.

Request Headers

In addition to common request headers, this interface also supports the following request headers. For detailed information on common request headers, refer to Common Request Headers.

Name	Description	Type	Mandatory
Cache-Control	Cache directive defined in RFC 2616, which will be preserved as object metadata.	string	No
Content-Disposition	File name defined in RFC 2616, which will be preserved as object metadata.	string	No
Content-Encoding	Encoding format defined in RFC 2616, which will be preserved as object metadata.	string	No
Content-Type	HTTP request content type (MIME) defined in RFC 2616. This header is used to describe the content type of the object to be uploaded, which will be preserved as object metadata. For instance, `text/html` or `image/jpeg` .	string	Yes
Expires	Cache expiration time defined in RFC 2616, which will be preserved as object metadata.	string	No
Transfer-Encoding	If you want to employ chunked transfer encoding during the upload process, specify the Transfer-Encoding: chunked request header. In this instance, the request body adheres to the transmission encoding format defined in RFC 2616, and the Content-Length request header cannot be specified.	string	No
x-cos-meta-*	User-defined metadata header suffixes and user-defined metadata information are stored as object metadata, with a size limit of 2 KB. **Note:** User-defined metadata information supports underscores (_). However, user-defined metadata header suffixes do not	string	No

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	support underscores (_) and only support hyphens (-).		
x-cos-storage-class	COS type. For details about the enumerated values, see Storage Class Overview, such as MAZ_STANDARD, MAZ_STANDARD_IA, INTELLIGENT_TIERING, MAZ_INTELLIGENT_TIERING, STANDARD_IA, ARCHIVE, and DEEP_ARCHIVE. Default value: STANDARD.	enum	No
x-cos-traffic-limit	Traffic control limit for this upload. The value must be a digit and the default unit is bit/s. The range is 819200-838860800, equating to 800 Kb/s - 800 Mb/s. Any value outside this range will result in a 400 error.	integer	No
x-cos-tagging	Collection of object tags. A maximum of 10 tags can be set (for instance, Key1=Value1&Key2=Value2). Both Key and Value in the tag collection must be URL encoded in advance.	string	No

ACL-related Headers

During the uploading of an object, you can set the access permission on the object by specifying the following request headers:

Name	Description	Type	Mandatory
x-cos-acl	Defines the access control list (ACL) attributes of the object. For enumerated values, refer to the preset ACL section in ACL, such as **default**, **private**, **public-read**. The default value is **default**. **Note:** If you do not require object ACL control, set this parameter to **default** or leave this parameter unset, which means that by default the permissions of the bucket will be inherited.	enum	No
x-cos-grant-read	Grants the authorized party the permission to read the object. The format is id="[OwnerUin]", for instance, id="100000000001". Multiple authorized parties can be separated by commas (,), for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-read-acp	Grants the authorized party the permission to read the ACL of the object. The format is id="[OwnerUin]", for instance, id="100000000001". Multiple authorized parties can be separated by commas (,), such as `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-write-acp	Grants the authorized party the permission to write data into the ACL of the object. The format is id="[OwnerUin]", for instance, id="100000000001". Multiple authorized parties can be separated by commas (,), such as `id="100000000001",id="100000000002"`.	string	No

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x-cos-grant-full-control	Grants all permissions on the object to the authorized party. The format is id="[OwnerUin]", for instance, id="100000000001". Multiple authorized parties can be separated by commas (,), such as `id="100000000001";id="100000000002"` .	string	No

SSE-related Headers

When uploading an object, server-side encryption (SSE) can be used. Refer to Server-Side Encryption Headers.

Object Lock-related Headers

Object lock can be employed during the uploading of an object. Refer to the dedicated headers for object lock.

Request Body

The request body for this interface consists of the object (file) content.

Response

Response Headers

In addition to common response headers, this interface also returns the following response headers. For details on common response headers, refer to Common Response Headers.

Version Control-related Headers

When uploading an object in a bucket with version control enabled, the following response headers will be returned:

Name	Description	Type
x-cos-version-id	Object's version ID.	string

SSE-related Headers

If SSE is used during object uploading, this interface will return dedicated headers for SSE. Refer to Server-Side Encryption Headers.

Response Body

The response body is empty.

Error Codes

This interface adheres to unified error responses and error codes. For details, refer to Error Codes.

Examples

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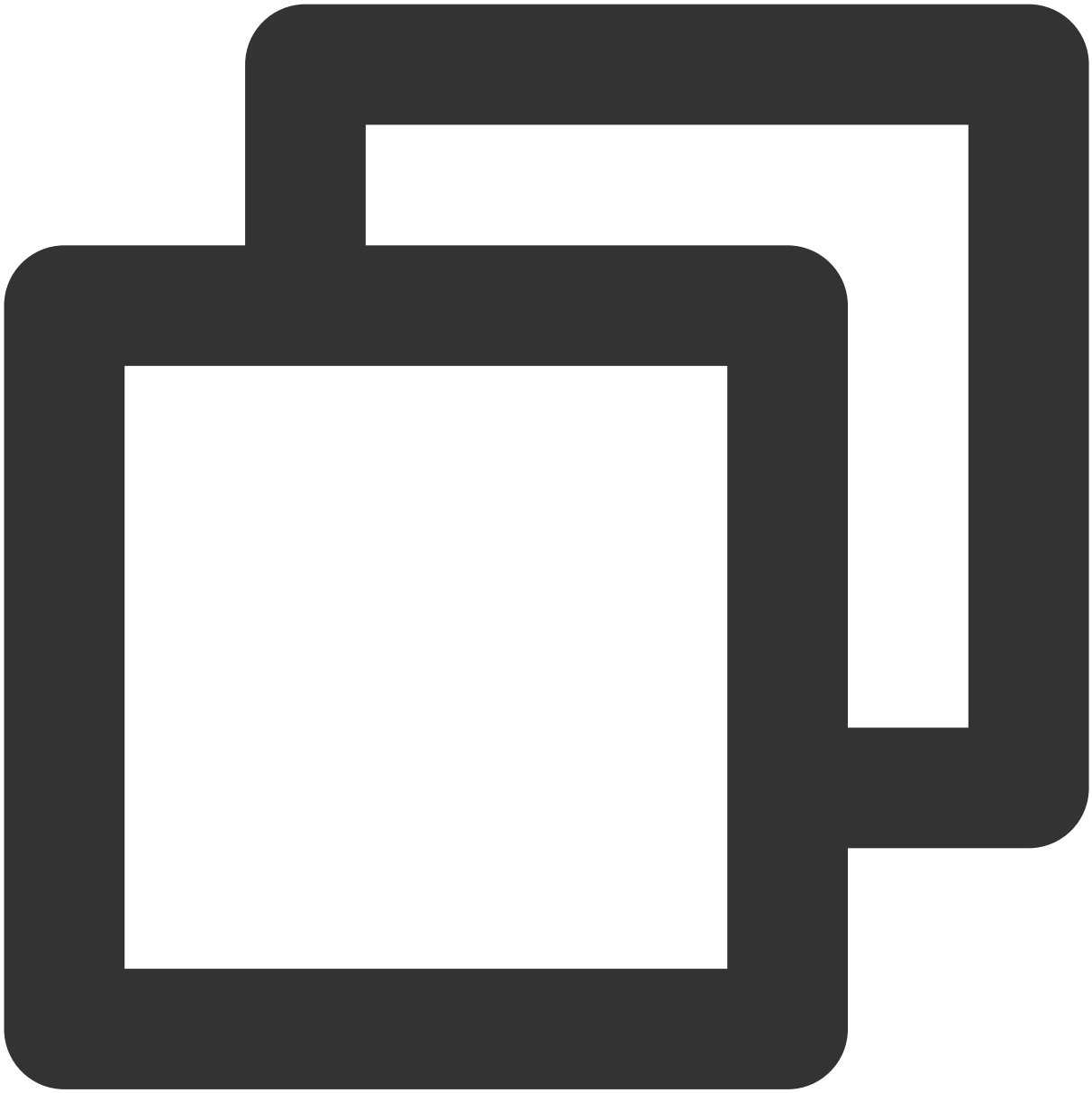
Example 1: Simple Example (Version Control Not Enabled)

Request



```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:35:05 GMT
Content-Type: image/jpeg
Content-Length: 16
Content-MD5: 7o3pGNBWQBRbGPcPTDqmAg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
```

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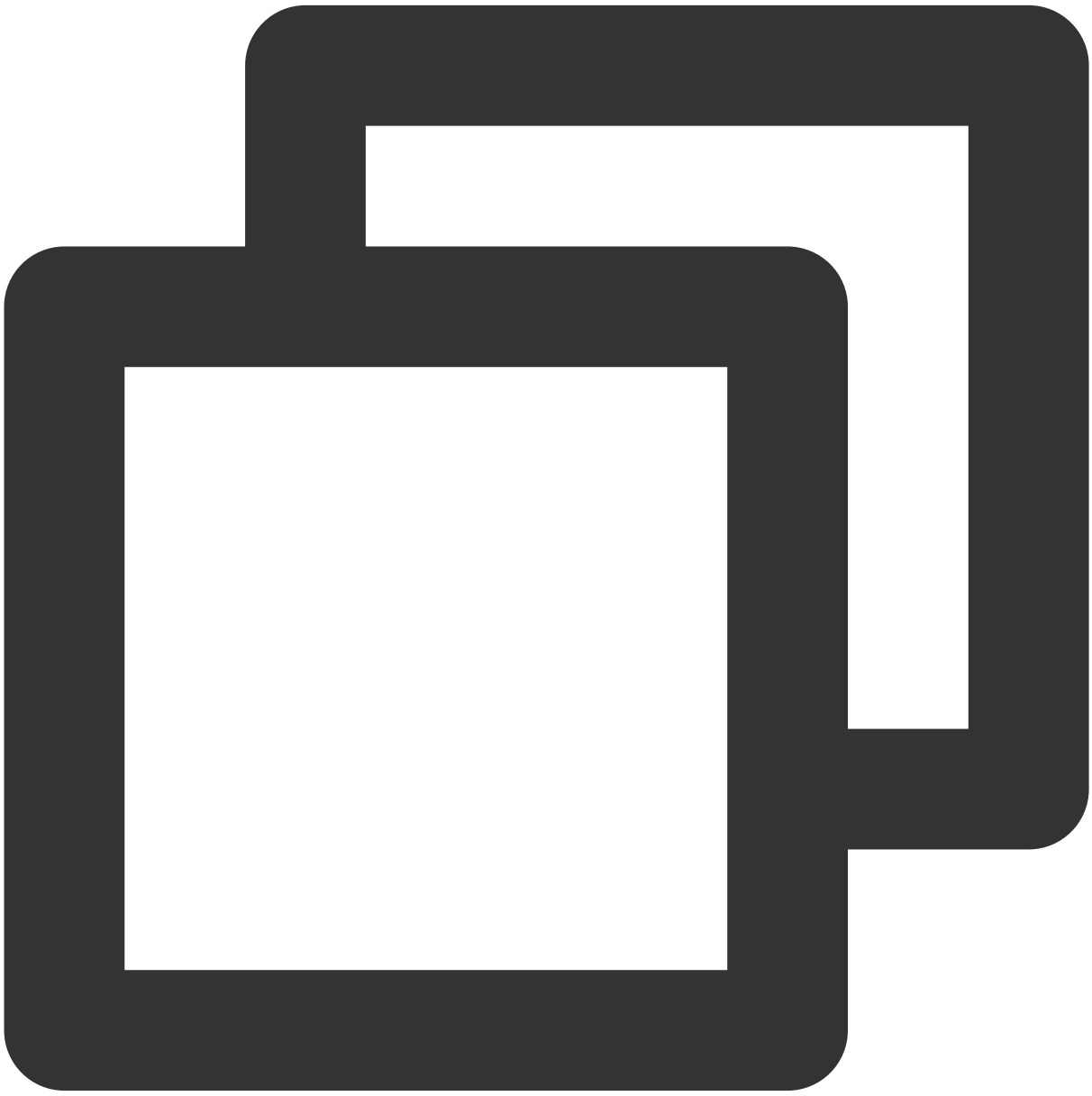
```
Connection: close

[Object Content]
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Fri, 10 Apr 2020 09:35:05 GMT
```

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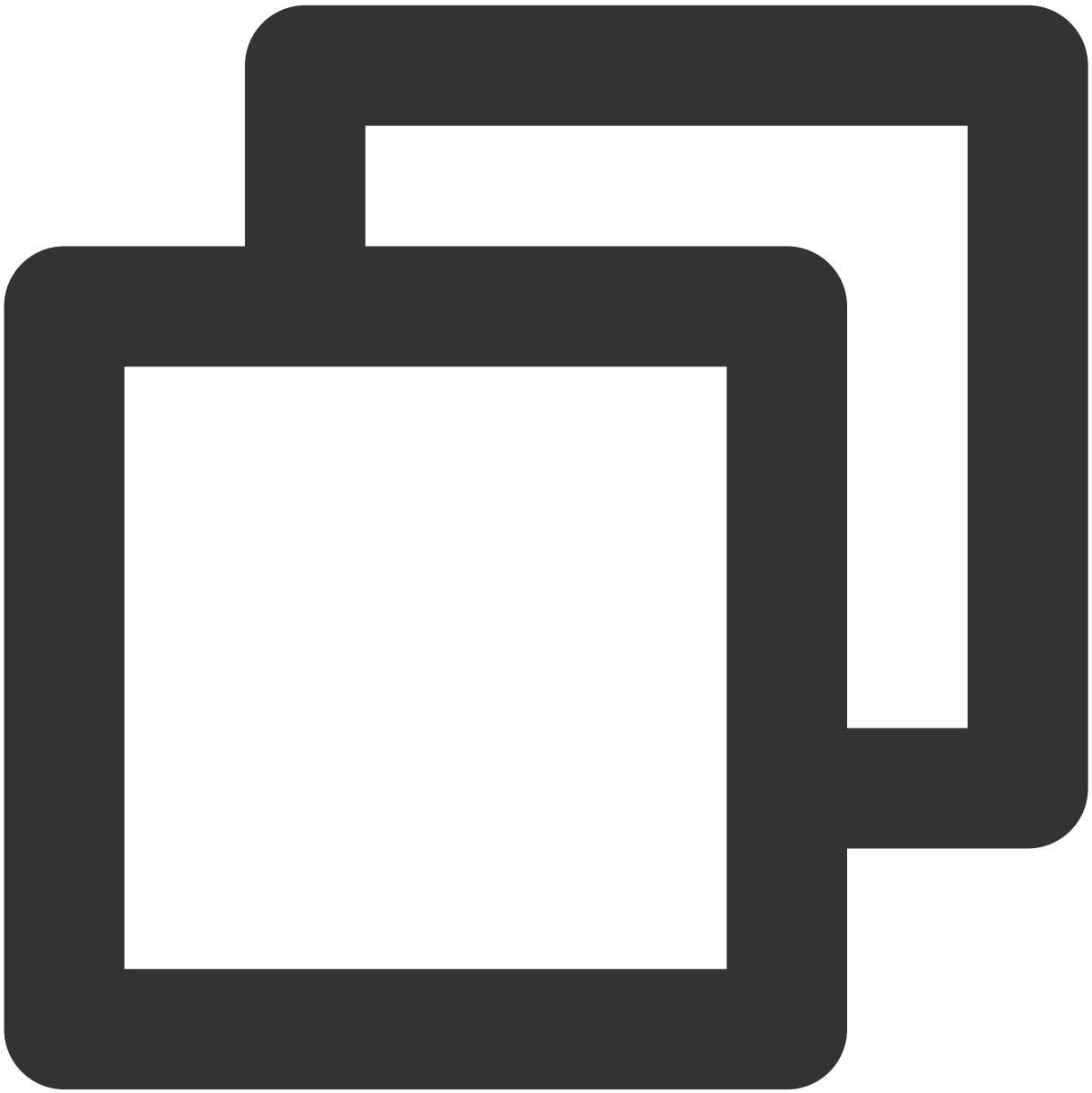
```
ETag: "ee8de918d05640145b18f70f4c3aa602"
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MDNkYzlfNjRiODJhMDlfMzFmYzhfMTFm****
```

Example 2: Specifying Metadata and ACL Using Request Headers

Request



```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

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```
Date: Fri, 10 Apr 2020 09:35:28 GMT
Content-Type: image/jpeg
Cache-Control: max-age=86400
Content-Disposition: attachment; filename=example.jpg
x-cos-meta-example-field: example-value
x-cos-acl: public-read
Content-Length: 16
Content-MD5: 7o3pGNBWQBRbGPcPTDqmAg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close



[Object Content]
```

Response

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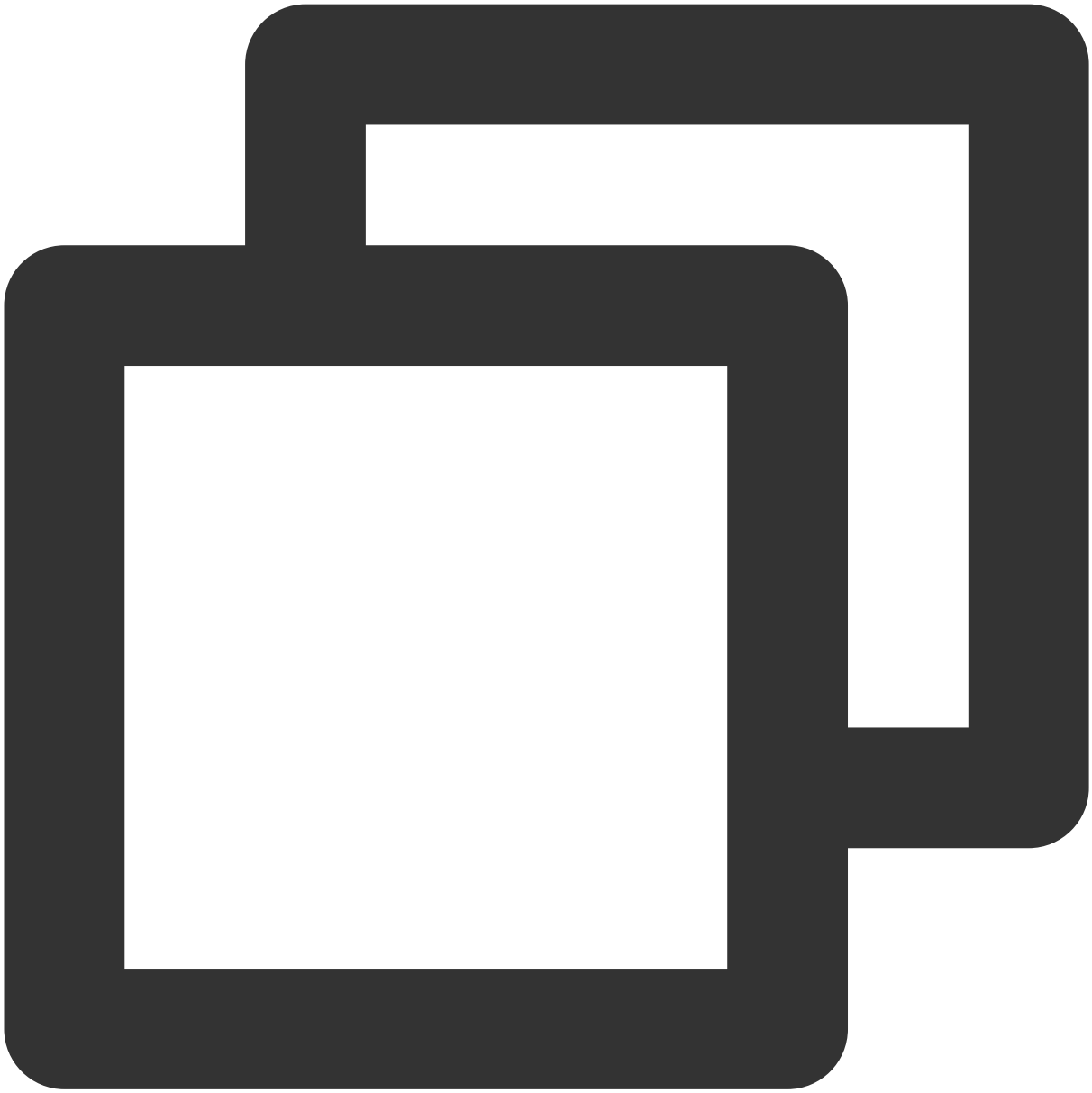

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Fri, 10 Apr 2020 09:35:28 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Server: tencent-cos
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MDNkZTBfZjhjMDBiMDlfNzdmN18xMGFi****
```

Example 3: Using SSE-COS

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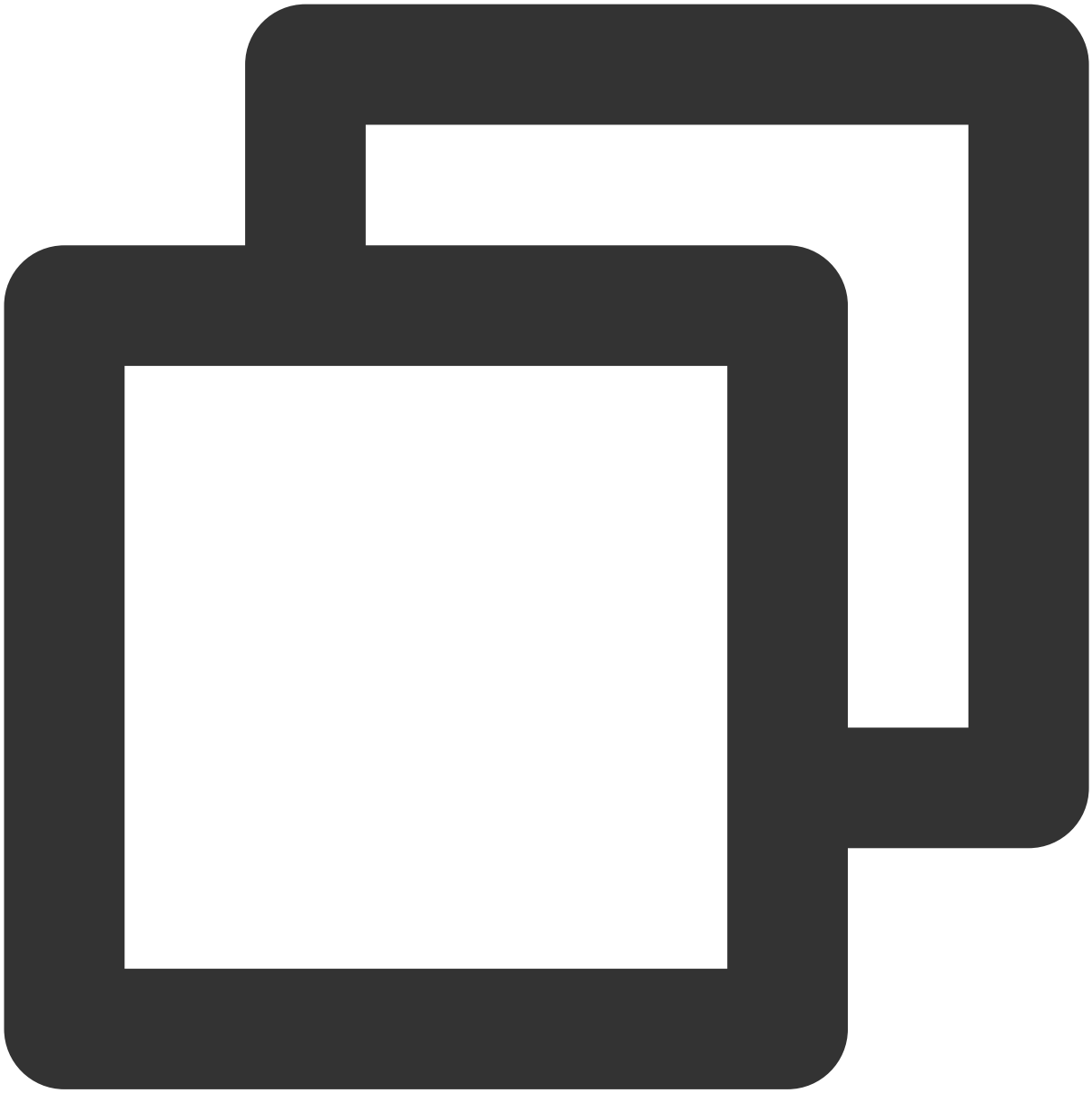
Request



```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:35:49 GMT
Content-Type: image/jpeg
x-cos-server-side-encryption: AES256
Content-Length: 16
Content-MD5: 7o3pGNBWQBRbGPcPTDqmAg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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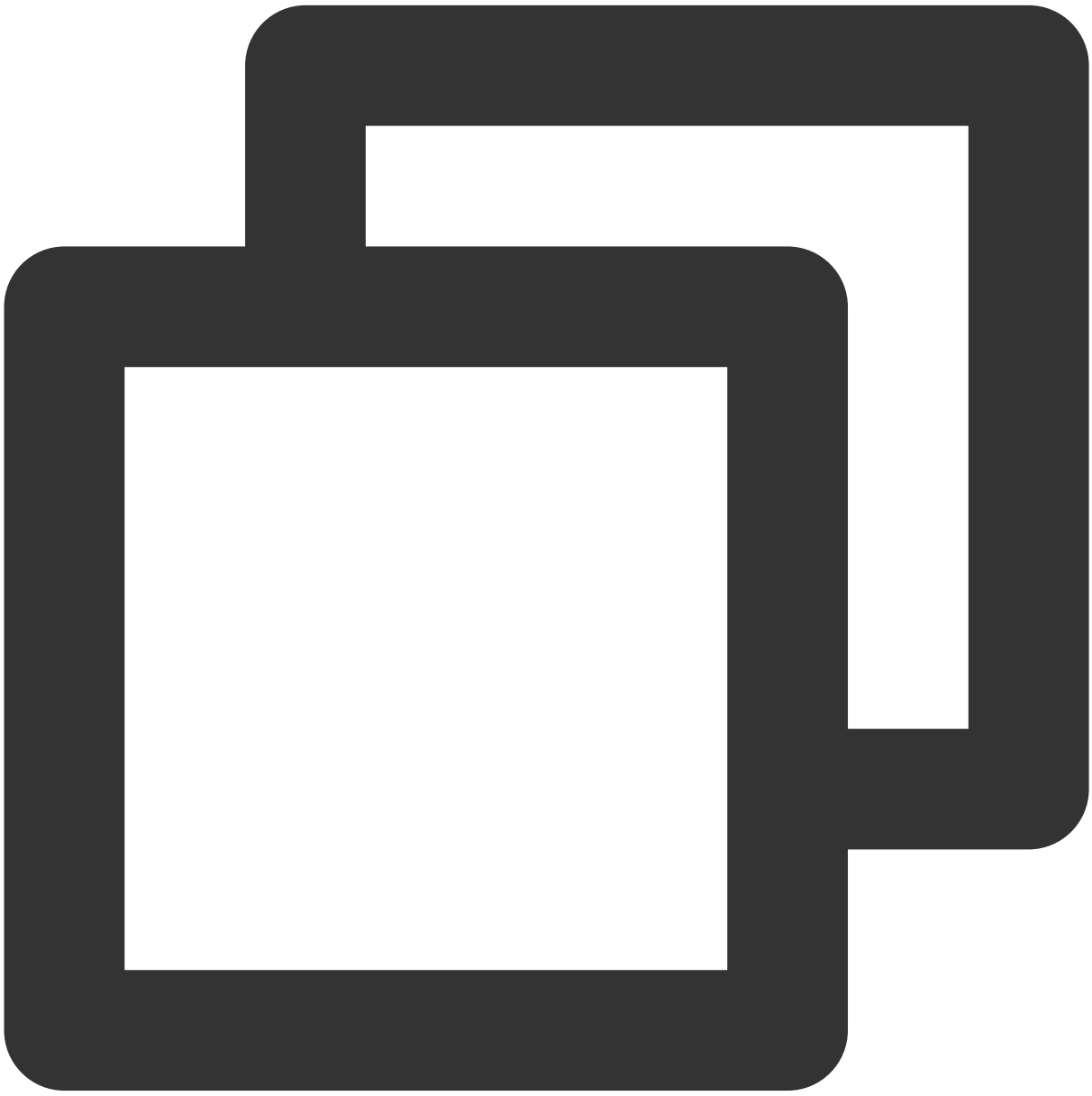
```
[Object Content]
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Fri, 10 Apr 2020 09:35:49 GMT
```

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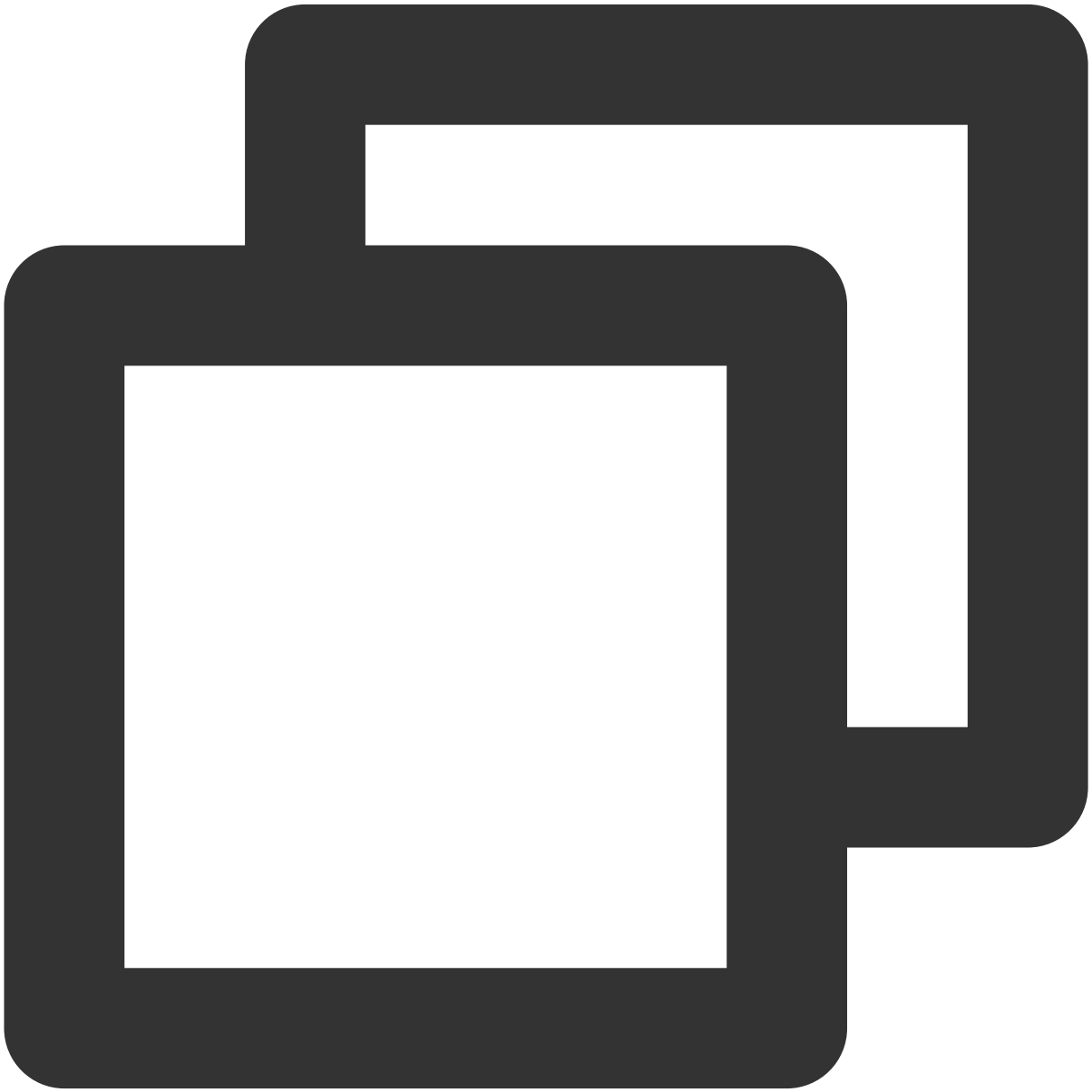
```
ETag: "ee8de918d05640145b18f70f4c3aa602"
Server: tencent-cos
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MDNkZjVfYzVjNzJhMDlfMjVhNzNfMWMy****
x-cos-server-side-encryption: AES256
```

Example 4: Using SSE-KMS

Request



```
PUT /exampleobject HTTP/1.1
```

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```
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:36:00 GMT
Content-Type: image/jpeg
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
x-cos-server-side-encryption-context: eyJhdXRob3IiOiJmeXNudGlhbiIsImNvbXBhbnkiOiJUZ
Content-Length: 16
Content-MD5: 7o3pGNBWQBRbGPcPTDqmAg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close



[Object Content]
```

Response

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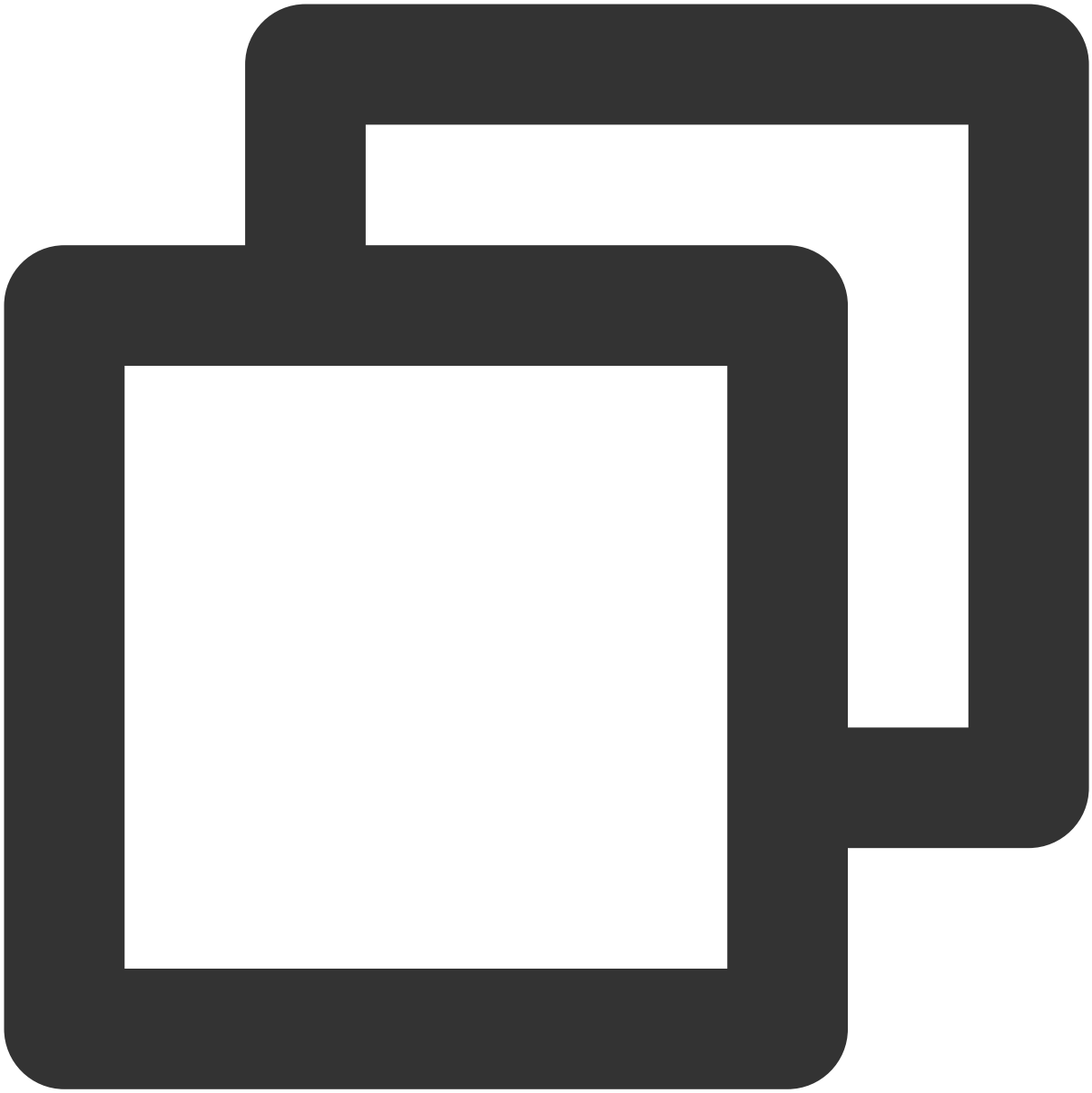

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Fri, 10 Apr 2020 09:36:01 GMT
ETag: "840af7c921f4b3230049af8663145bd0"
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MDNlMDFfOThjMjJhMDlfMjhhM18xNTlm****
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
```

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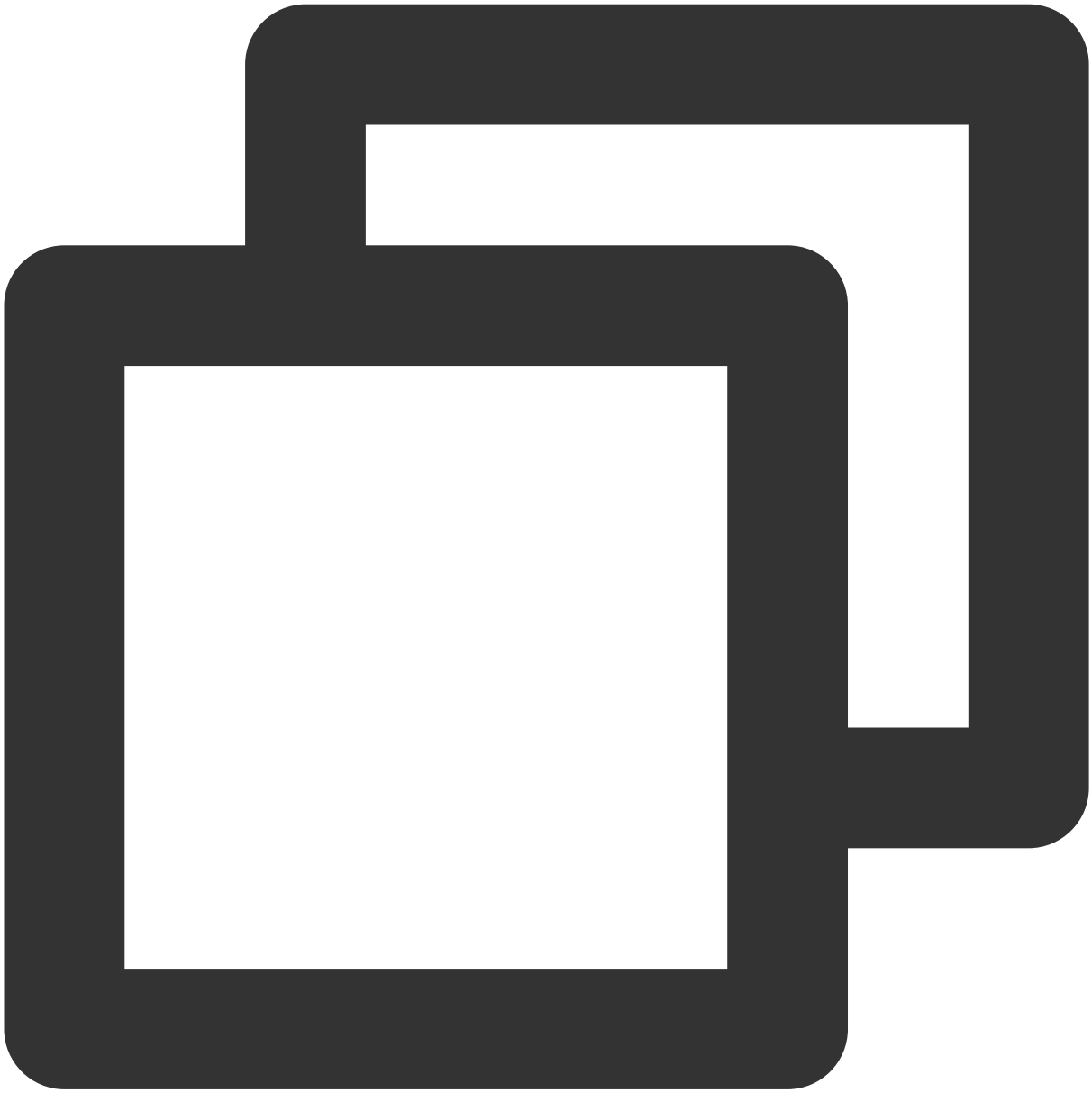
Example 5: Using SSE-C

Request



```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:36:12 GMT
Content-Type: image/jpeg
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key: MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNE
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
```

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```
Content-Length: 16
Content-MD5: 7o3pGNBWQBRbGPcPTDqmAg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close



[Object Content]
```

Response

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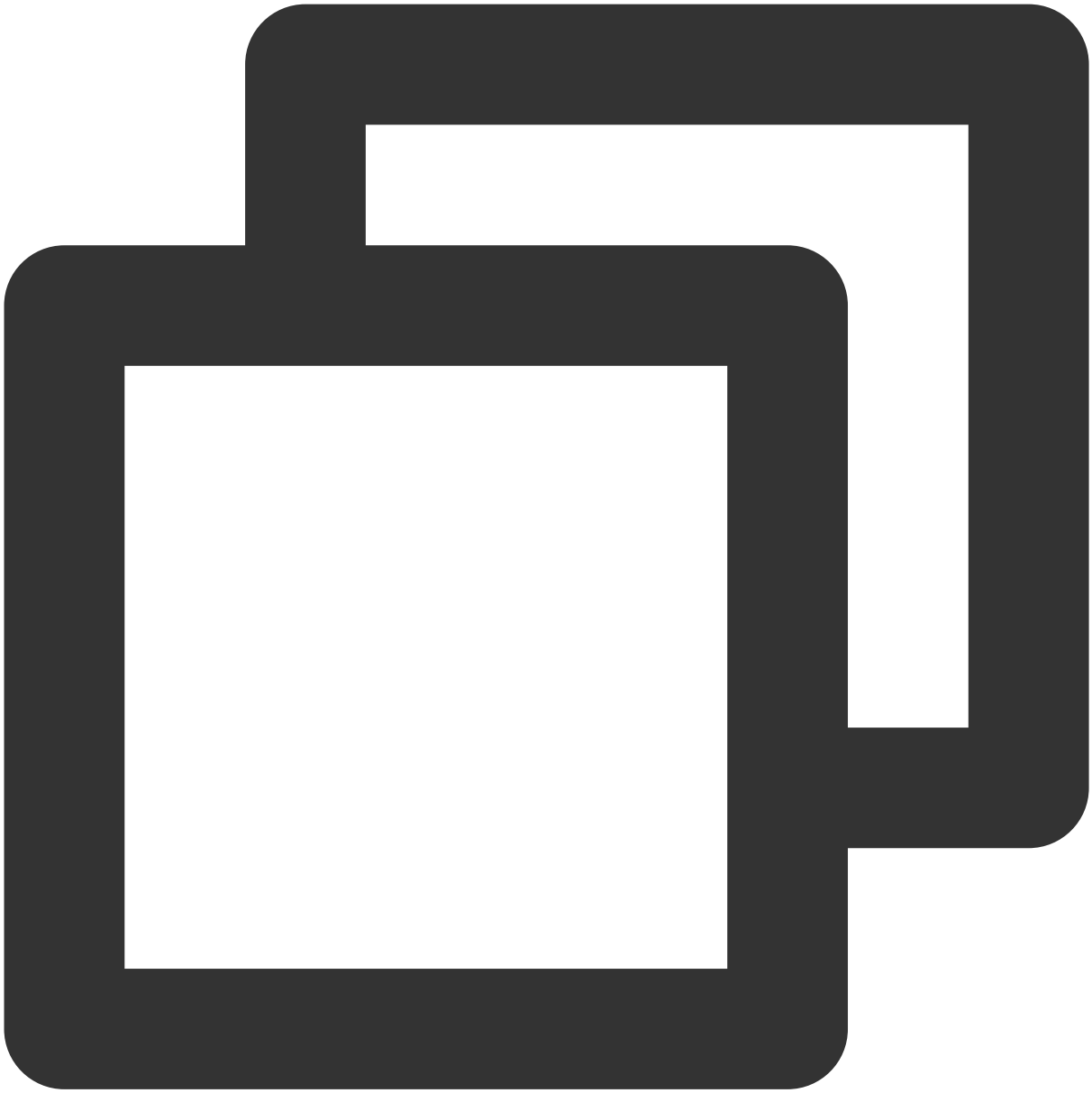

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Fri, 10 Apr 2020 09:36:13 GMT
ETag: "582d9105f71525f3c161984bc005efb5"
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MDNlMGNfZTFjODJhMDlfMzVlMDFfZTk1****
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
```

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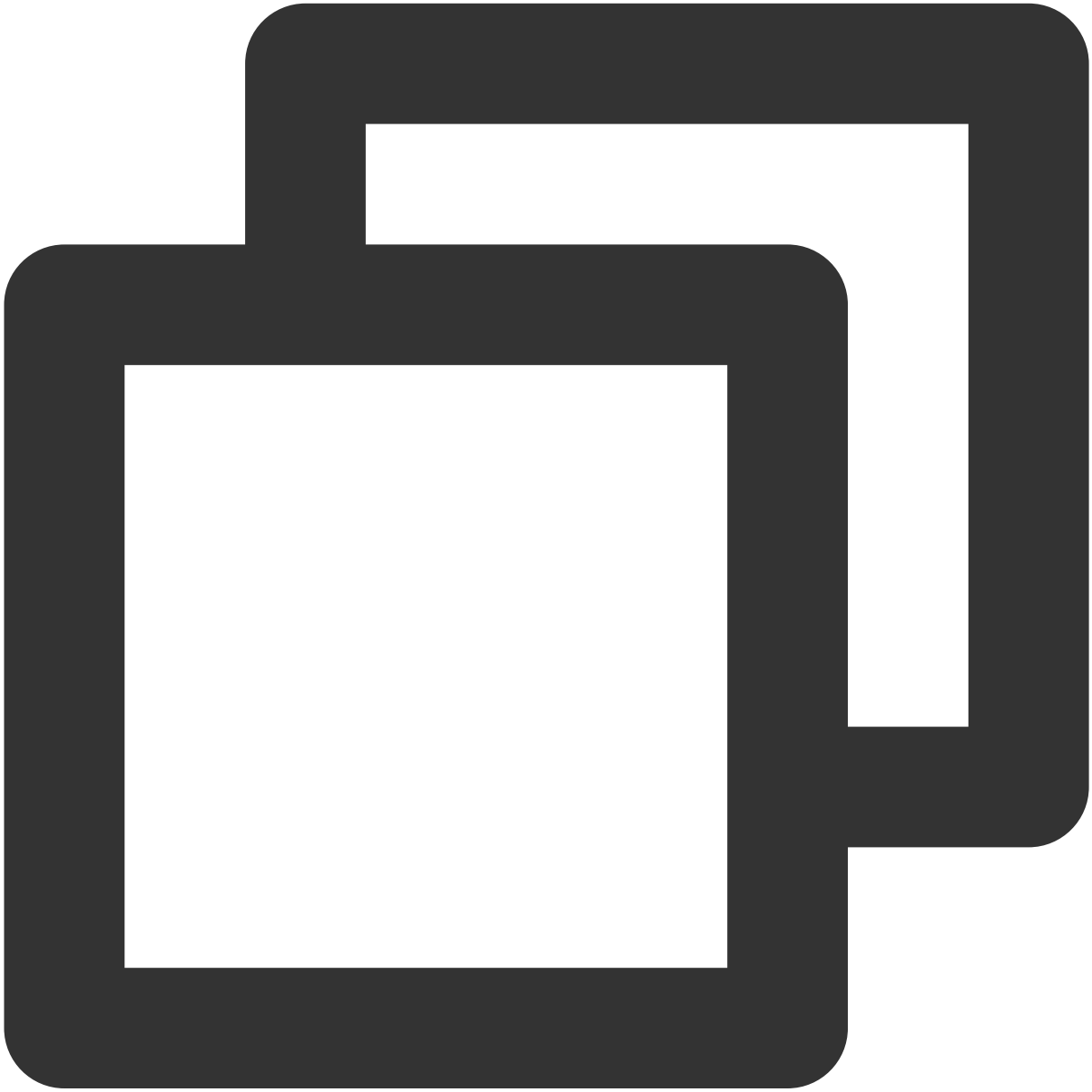
Example 6: Enabling Version Control

Request



```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:36:34 GMT
Content-Type: image/jpeg
Content-Length: 16
Content-MD5: 7o3pGNBWQBRbGPcPTDqmAg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
```

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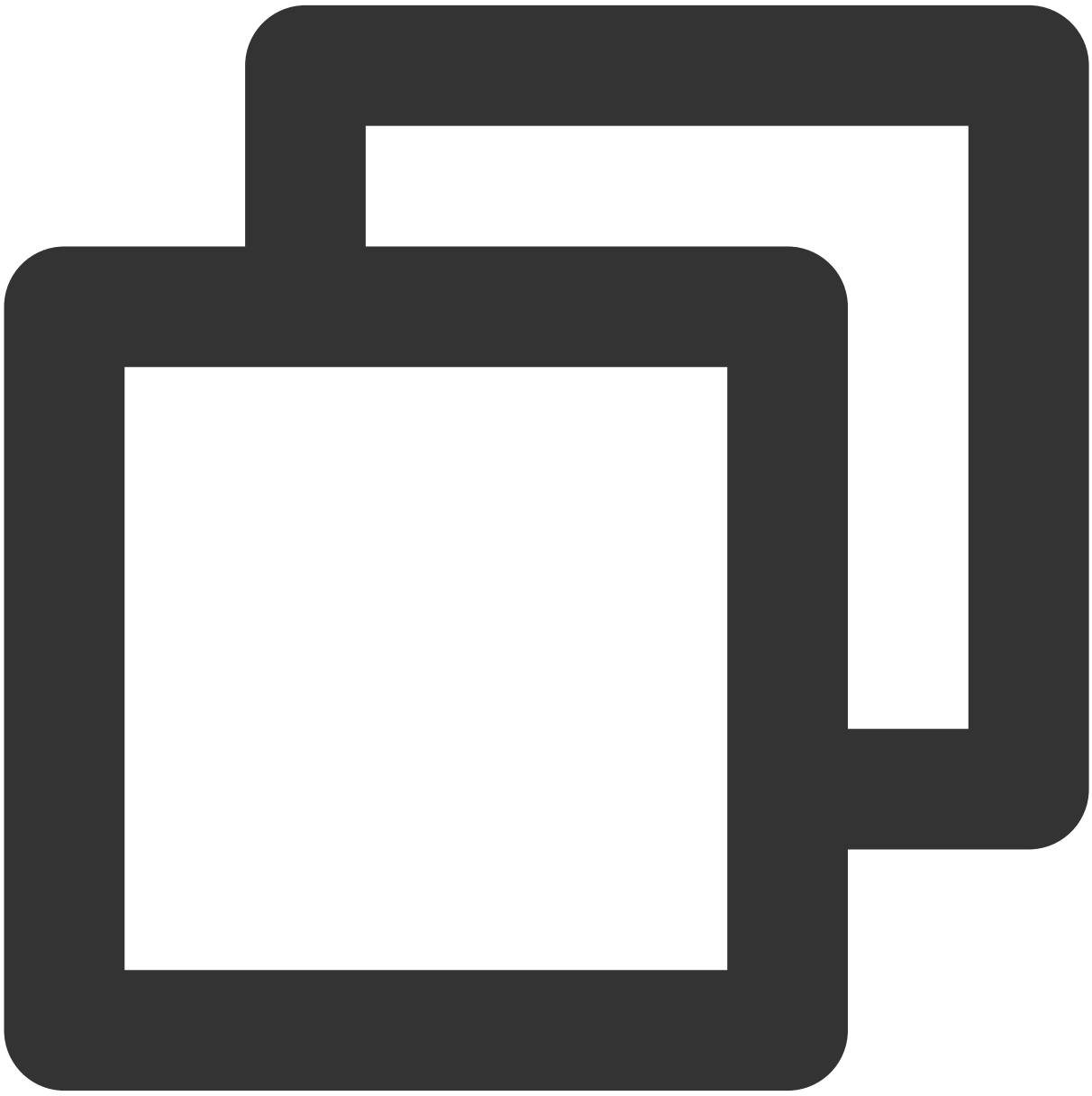
```
Connection: close



[Object Content]
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
```

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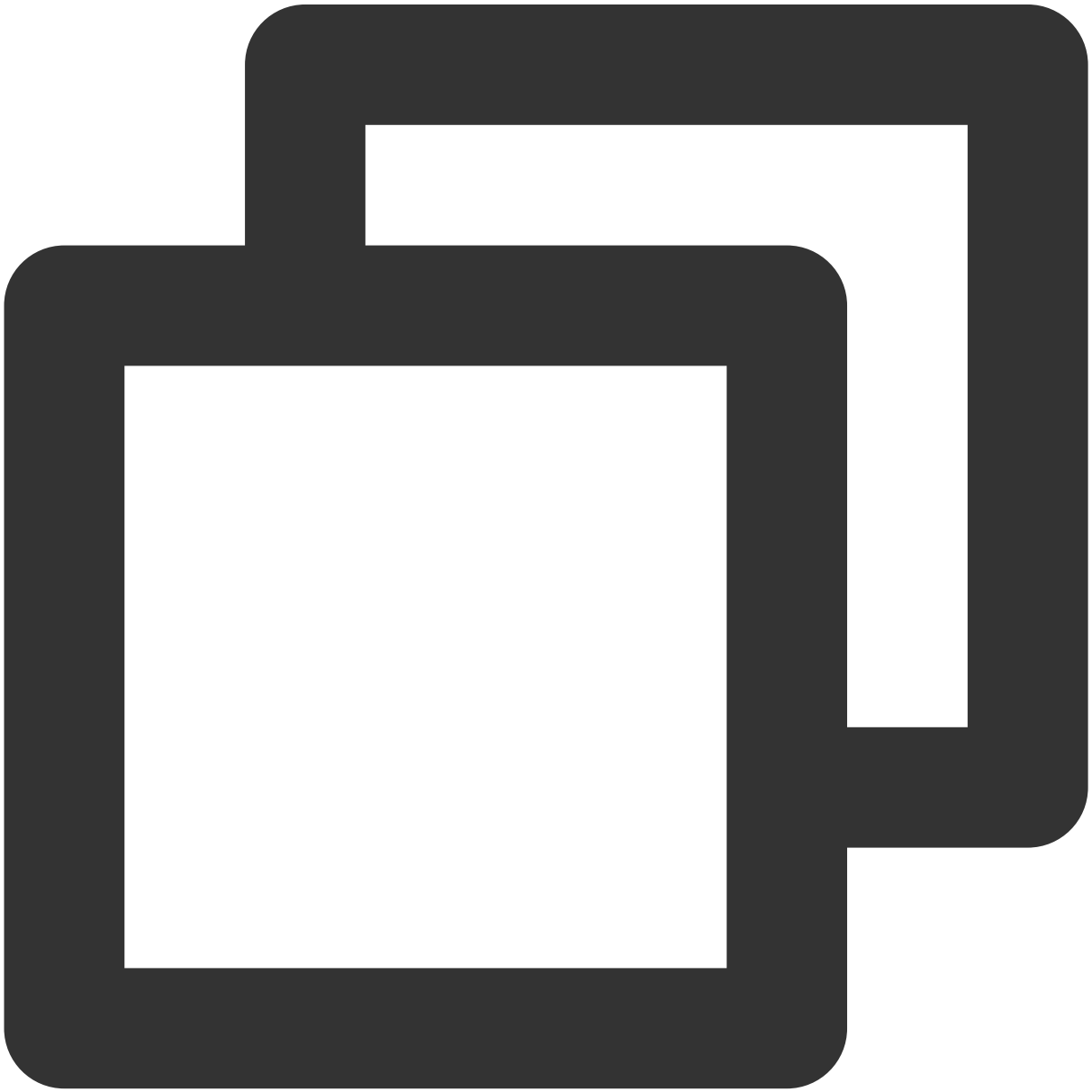
```
Date: Fri, 10 Apr 2020 09:36:35 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MDNlMjNfMThiODJhMDlfNGQ1OF8xMWY4****
x-cos-version-id: MTg0NDUxNTc1NjIzMTQ1MDAwODg
```

Example 7: Suspending Version Control

Request



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```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:37:07 GMT
Content-Type: image/jpeg
Content-Length: 16
Content-MD5: 7o3pGNBWQBRbGPcPTDqmAg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close



[Object Content]
```

Response

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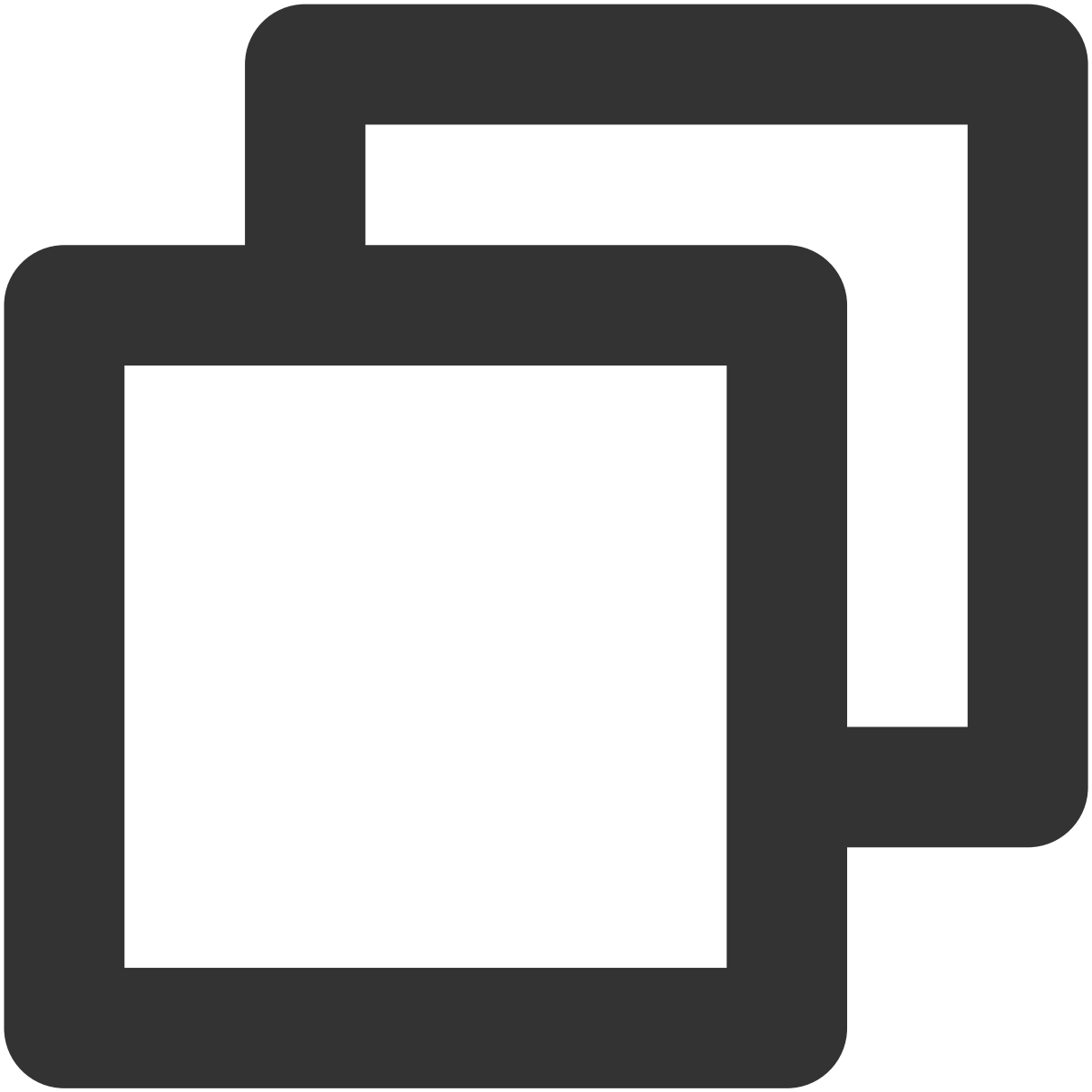

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Fri, 10 Apr 2020 09:37:07 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MDNlNDNfZTZjNzJhMDlfMmYwMDlfMTVi****
```

Example 8: Using Chunked Transfer Encoding for Segmented Transmission

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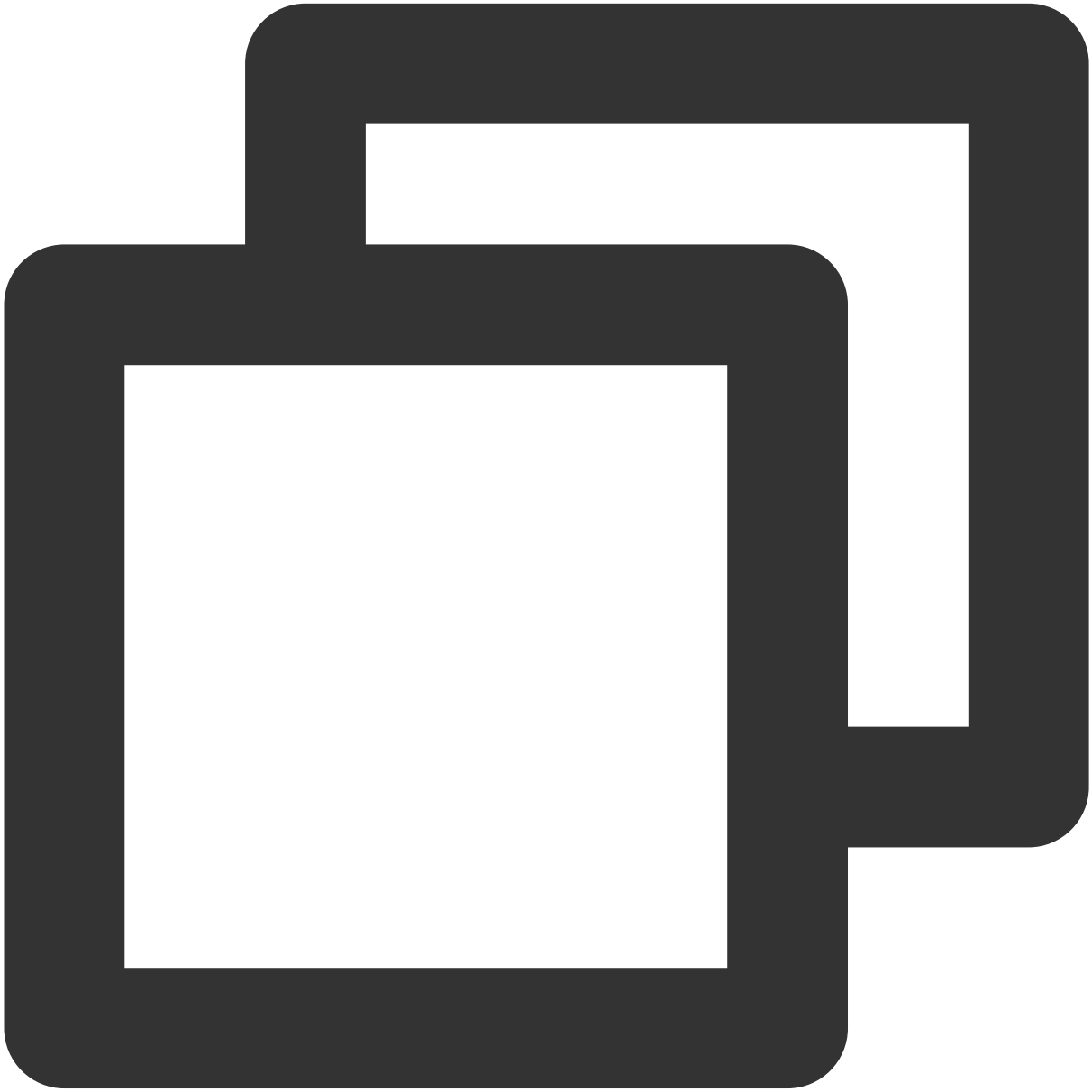
This example uses the Transfer-Encoding: chunked encoding. This example illustrates the raw data in an HTTP request. During the application, different invocation methods will be employed depending on the language and library in use. Developers are advised to consult the relevant documentation of the language and library.

Request



```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 08 Aug 2019 09:15:29 GMT
Content-Type: text/plain
Transfer-Encoding: chunked
```

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```
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close



11
[Chunked Content]
b
[2nd chunk]
b
[3rd chunk]
b
[4th chunk]
0
```

Response

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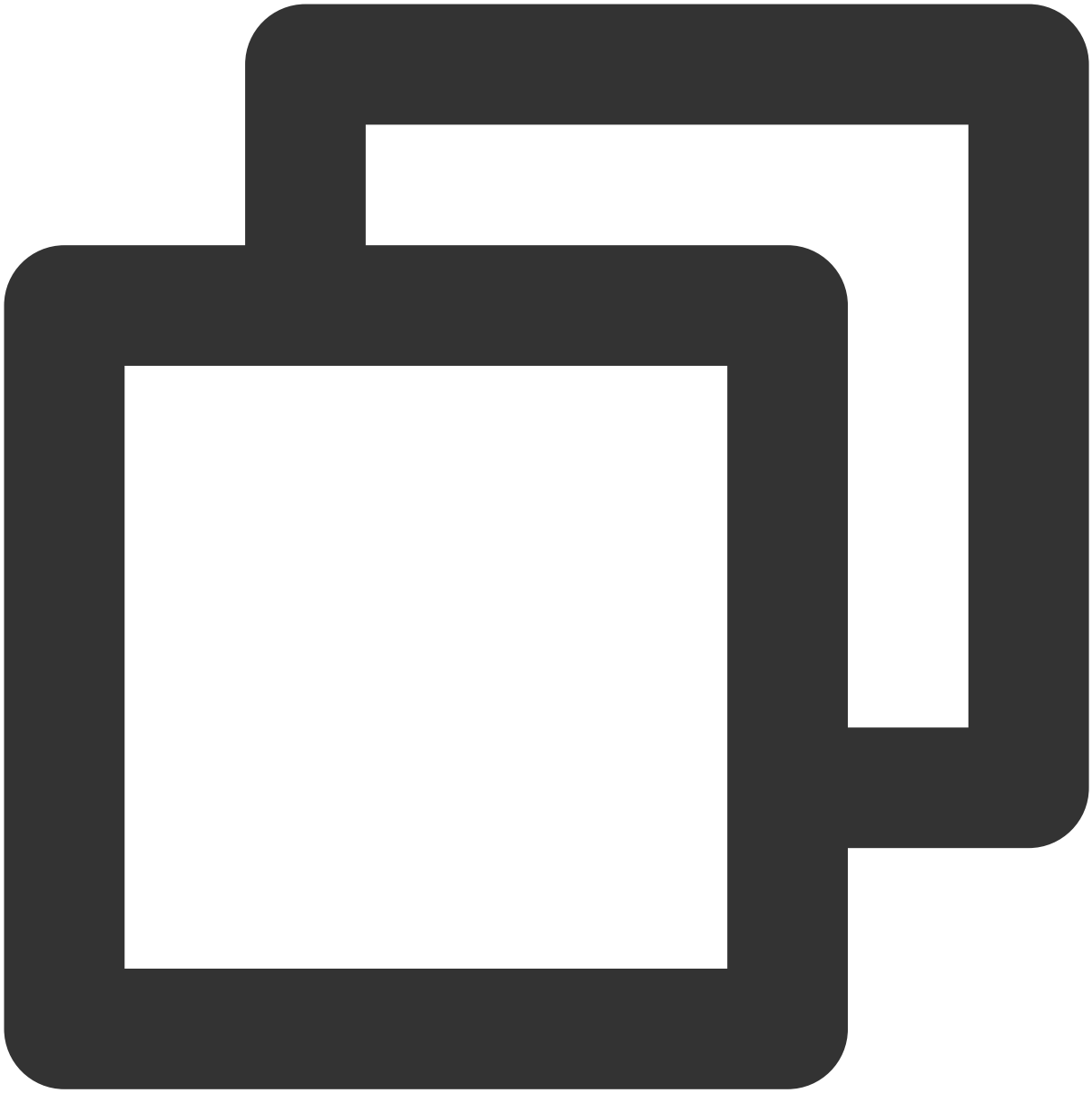

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Thu, 08 Aug 2019 09:15:29 GMT
ETag: "aa488bb80185a6be87f4a7b936a80752"
Server: tencent-cos
x-cos-hash-crc64ecma: 7188322482464764960
x-cos-request-id: NWQ0YmU4MzFfNzFiNDBiMDlfMWJhYTlfMTY2Njll****
```

Example 9: Configuring Object Lock

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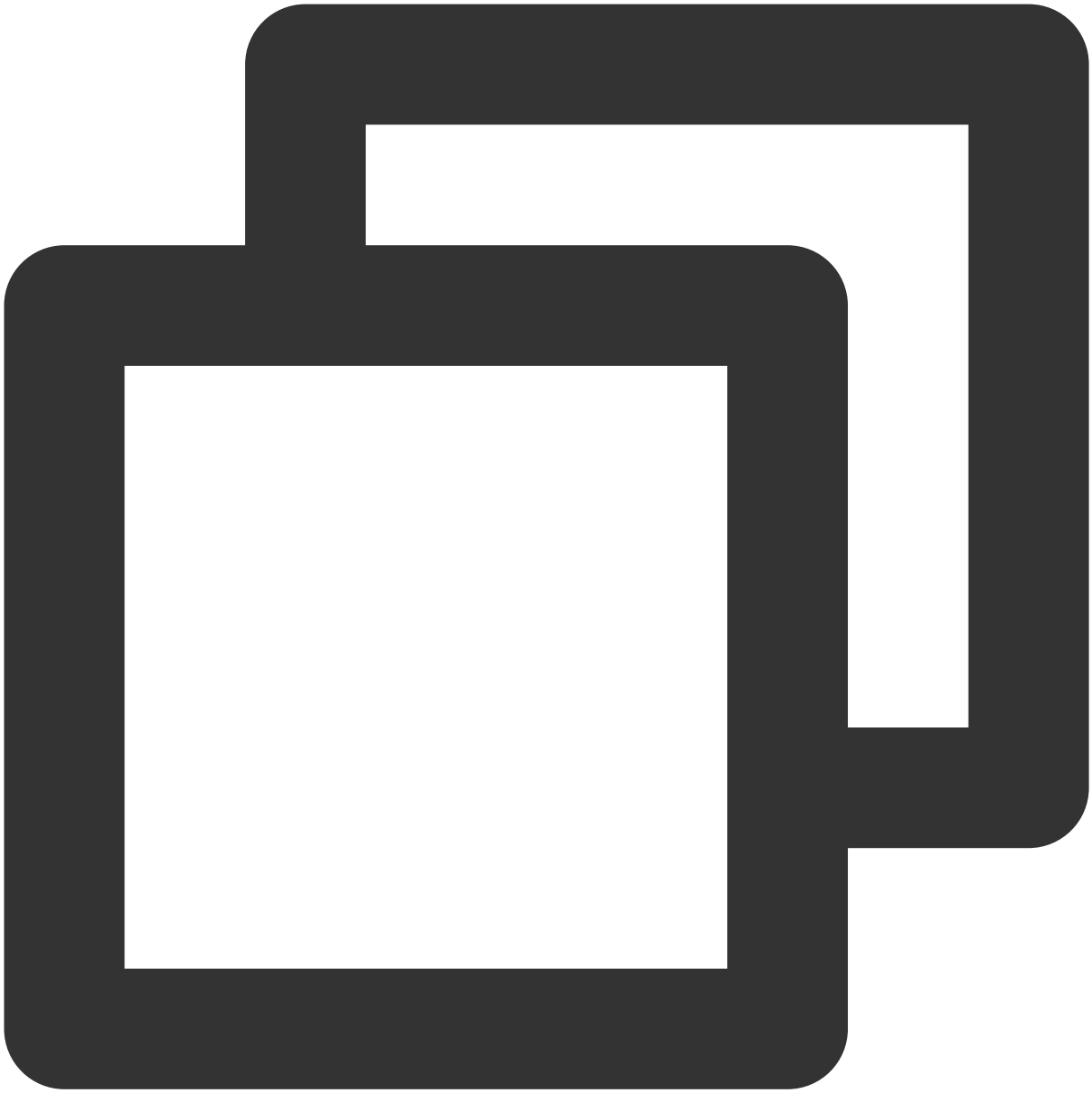
Request



```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
x-cos-object-lock-retain-until-date: 2022-12-30T10:30:09.000Z
x-cos-object-lock-mode: COMPLIANCE

[Object Content]
```

Response

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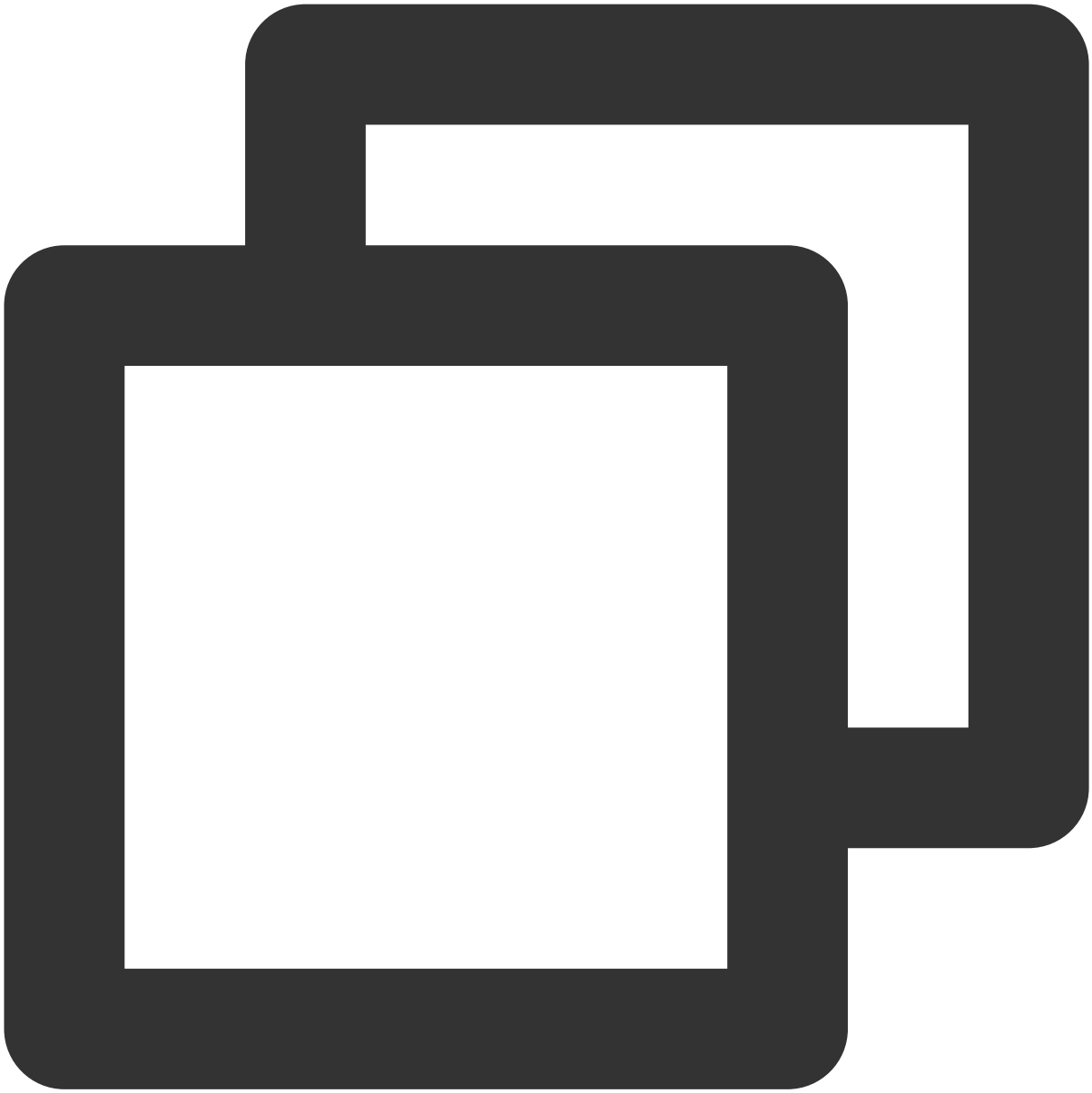

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Fri, 10 Apr 2020 09:35:05 GMT
ETag: "ee8de918d05640145b18*****"
Server: tencent-cos
x-cos-hash-crc64ecma: 167495656791****
x-cos-request-id: NWU5MDNkYzlfNjRiODJhMDlfMzFmYz********
```

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PUT Object - Copy

Last updated：2024-06-12 15:10:38

Feature Overview

This API is used to create a copy of an object that already exists in COS, i.e., copying an object from the source path (object key) to the destination path (object key). The recommended object size is from 1 MB to 5 GB. For objects over 5 GB, refer to Upload Part - Copy.
You can specify how metadata is processed during the copy process. By default, the metadata will be copied to the destination object. You can also choose not to copy the metadata of the source object and specify new metadata in the API request. However, unless the storage class, access control list (ACL), and server-side encryption (SSE) are explicitly specified in the request, the storage class of the destination object will be STANDARD, the ACL of the destination bucket will be inherited, and SSE will not be used by default, regardless of the processing method.
You can use this API to move, rename, and copy object metadata and create copies.
To call this API, you need to have permission to read the object you want to copy, or the object must be set to `public-read` (i.e., everyone has read permission for the object). Besides, you must have write permission for the destination bucket.
Note:
An error may be returned when COS receives the copy request or is copying the object. If an error occurs before the copy begins, a standard error response will be returned. If an error occurs during the copy, `HTTP 200 OK` will be returned with the error as the response body, meaning that the `HTTP 200 OK` response can include both success and error information. When using this API, pay attention to the content of the response body to determine whether the copy request was successful and process the result accordingly.
The MAZ_STANDARD storage class only supports replication into the exact same class rather than STANDARD, STANDARD_IA, or ARCHIVE storage classes.
The MAZ_STANDARD_IA storage class only supports replication into the exact same class rather than STANDARD, STANDARD_IA, or ARCHIVE storage classes.
Calling `PUT Object - Copy` is equivalent to requesting `GET Object` once in the source bucket and requesting `PUT Object` once in the destination bucket. Please note that this operation will incur charges for items such as read and write requests, storage usage, cross-region replication traffic, and data processing and moderation generated by workflows.

Versioning

If versioning is enabled for the bucket where the source object resides, the latest version of the source object is copied by default. You can specify the `versionId` parameter in the `x-cos-copy-source` request header to copy a specified version.

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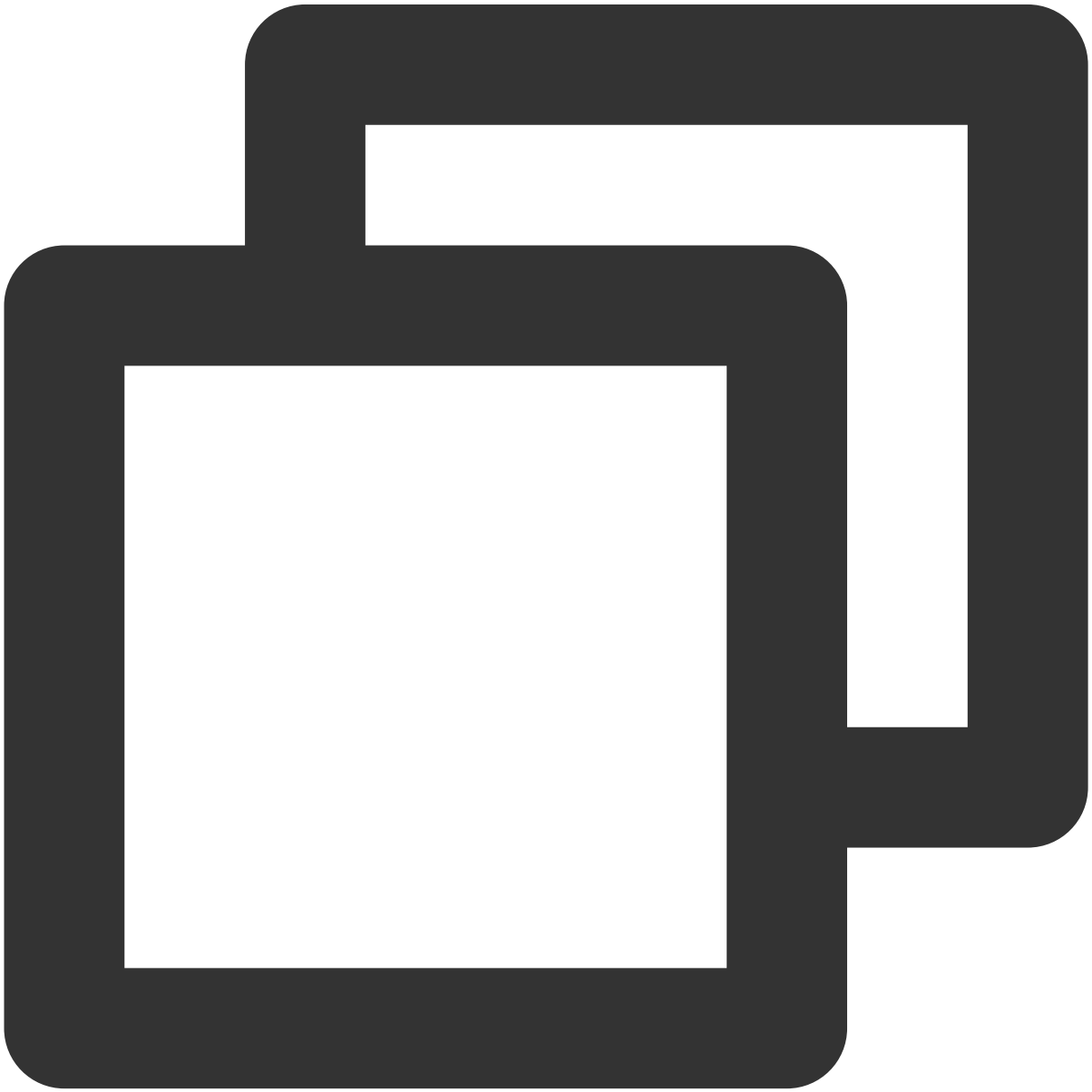
If versioning is enabled for the destination bucket, COS will automatically generate a unique version ID for the destination object.

Request

Request example



```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
```

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```
Date: GMT Date
x-cos-copy-source: <SourceBucketName-SourceAPPID>.cos.<SourceRegion>.myqcloud.com/<
Content-Length: 0
Authorization: Auth String
```

Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request fields

This API has no request parameter.

Request headers

In addition to common request headers, this API also supports the following request headers. For more information on the common request header, see Common Request Headers.

Header	Description	Type	Required
x-cos-copy-source	URL of the source object, where the object key needs to pass through URLEncode. The version of the source object can be specified by the `versionId` parameter, such as `sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example-%E8%85%BE%E8%AE%AF%E4%BA%91.jpg` , or `sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example-%E8%85%BE%E8%AE%AF%E4%BA%91.jpg?versionId=MTg0NDUxNzYzMDc0NDMzNDExOTc`	string	Yes
x-cos-metadata-directive	Specifies whether to copy the metadata information of the source object. Enumerated values: `Copy` (default), `Replaced` . If this parameter is set to `Copy` , the metadata information of the source object will be copied. If this parameter is set to `Replaced` , the metadata information in the request header will be used as the metadata information of the destination object. If the destination and source objects are the same and you want to modify the metadata, this parameter must be set to `Replaced` .	Enum	No

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x-cos-copy-source-If-Modified-Since	If the object is modified after the specified time, the copy operation will be executed; otherwise, an HTTP 412 status code (Precondition Failed) is returned.	string	No
x-cos-copy-source-If-Unmodified-Since	If the object is not modified after the specified time, the copy operation will be executed; otherwise, an HTTP 412 status code (Precondition Failed) is returned.	string	No
x-cos-copy-source-If-Match	If the `ETag` of the object is the same as the specified value, the copy operation will be executed; otherwise, an HTTP 412 status code (Precondition Failed) is returned.	string	No
x-cos-copy-source-If-None-Match	If the `ETag` of the object is not the same as the specified value, the copy operation will be executed; otherwise, an HTTP 412 status code (Precondition Failed) is returned.	string	No
x-cos-storage-class	Storage class of the destination object. For the enumerated values, such as `INTELLIGENT_TIERING`, `MAZ_INTELLIGENT_TIERING`, `STANDARD_IA`, `ARCHIVE`, and `DEEP_ARCHIVE`, see Storage Class Overview. Default value: `STANDARD`.	Enum	No
x-cos-tagging	A set of up to 10 object tags (for example, `Key1=Value1&Key2=Value2`). Tag key and tag value in the set must be URL-encoded.	string	No
x-cos-tagging-directive	Specifies whether to copy the tags of the source object. Enumerated values: `Copy` (default), `Replaced`. If this parameter is set to `Copy`, tags of the source object will be copied. If this parameter is set to `Replaced`, tags specified in the request header will be used for the destination object. When the source and destination object is the same, that is, you want to modify the object tag, this parameter must be set to `Replaced`.	Enum	No

Headers related to destination object metadata

When copying an object, you can configure the metadata information of the destination object by specifying the following request headers. In this case, the request header `x-cos-metadata-directive` must be set to `Replaced`. Otherwise, the destination object cannot use the metadata information of the source object and the following headers cannot be specified.

Header	Description	Type	Required
Cache-Control	Cache directives as defined in RFC 2616. It will be stored as the	string	No

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	object metadata.		
Content-Disposition	Filename as defined in RFC 2616. It will be stored as the object metadata.	string	No
Content-Encoding	Encoding format as defined in RFC 2616. It will be stored as the object metadata.	string	No
Content-Type	HTTP request content type (MIME) as defined in RFC 2616. This header describes the content type of the destination object and will be stored as the object metadata. Example: `text/html` , `image/jpeg`	string	Yes
Expires	The cache expiration time as defined in RFC 2616. It will be stored as the object metadata.	string	No
x-cos-meta-*	Contains the header and value of user-defined metadata. It will be stored as the metadata of the destination object. The maximum size is 2 KB. Example: For `x-cos-meta-via: homepage` , the header is `x-cos-meta-via` , the suffix is `via` , and the value is `homepage` . **Note: The user-defined metadata value can contain underscores (_), whereas the headers support only hyphens (-) but not underscores.**	string	No

ACL-related headers

When copying an object, you can configure the access permissions of the destination object by specifying the following request headers:

Header	Description	Type	Required
x-cos-acl	Defines the ACL attribute of the destination object. For the enumerated values, such as `default` (default), `private` , and `public-read` , see the **Preset ACL** section in ACL Overview. **Note: If you do not need to set an ACL for the object, set this parameter to `default` or leave it empty. In this way, the object will inherit the permissions of the bucket it is stored in.**	Enum	No
x-cos-grant-read	Grants a user permission to read the destination object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"` .	string	No

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x-cos-grant-read-acp	Grants a user permission to read the ACL of the destination object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-write-acp	Grants a user permission to write to the ACL of the destination object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-full-control	Grants a user full permission to operate on the destination object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use a comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No

Headers related to SSE of the source object

If the source object uses the server-side encryption method, `SSE-C`, you need to specify the following request headers to decrypt the source object:

Header	Description	Type	Required
x-cos-server-side-encryption-customer-algorithm	Server-side encryption algorithm. Currently, only AES256 is supported.	string	Required if the source object uses SSE-C.
x-cos-server-side-encryption-customer-key	Base64-encoded server-side encryption key, such as `MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNERUY=`	string	Required if the source object uses SSE-C.
x-cos-server-side-encryption-customer-key-MD5	Base64-encoded MD5 hash of the server-side encryption key, such as `U5L61r7jcwdNvT7frmUG8g==`	string	Required if the source object uses SSE-C.

Headers related to SSE of the destination object

Server-side encryption can be used during object copying. For more information, see Server side encryption headers.

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Request body

This API does not have a request body.

Response

Response headers

In addition to common response headers, this API also returns the following response headers. For more information on common response headers, see Common Response Headers.

Versioning-Related Headers

When the version ID of the source object is specified, the following response headers are returned:

Header	Description	Type
x-cos-copy-source-version-id	Version ID of the source object	string

SSE-related headers

If server-side encryption is used during object copying, this API will return headers used specifically for server-side encryption. For more information. see Server side encryption headers.

Response body

A successful query returns the **application/xml** data, which includes information about the object copying results.

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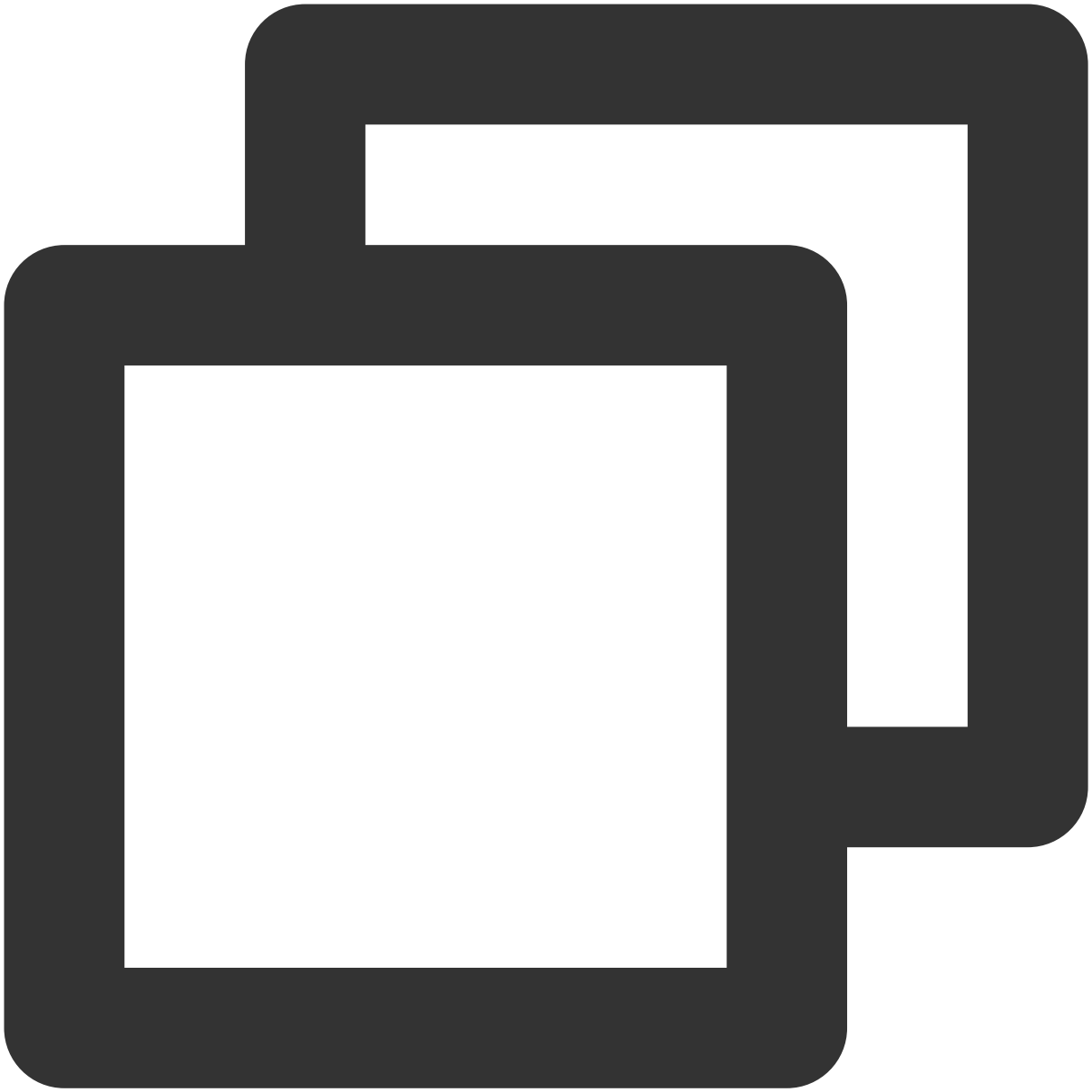

```
<?xml version="1.0" encoding="UTF-8"?>
<CopyObjectResult>
            <ETag>string</ETag>
            <CRC64>number</CRC64>
            <LastModified>date</LastModified>
            <VersionId>string</VersionId>
</CopyObjectResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type

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CopyObjectResult	None	Stores the result of `PUT Object - Copy` .	Container

Content of `CopyObjectResult` :

Node Name (Keyword)	Parent Node	Description	Type
ETag	CopyObjectResult	Entity tag of the object. It indicates the content of the object when it is created and can be used to verify whether the object content is changed. Example: `8e0b617ca298a564c3331da28dcb50df` The value of `ETag` is not necessarily the MD5 checksum of the object. The value will be different if the uploaded object is encrypted.	string
CRC64	CopyObjectResult	CRC64 checksum of the object. For more information, please see CRC64 Check.	number
LastModified	CopyObjectResult	Last modified time of the object, in ISO 8601 format, such as `2019-05-24T10:56:40Z`	date
VersionId	CopyObjectResult	Version ID of the object. This node is returned only if versioning is enabled for the destination bucket.	string

Error codes

This API returns uniform error responses and error codes. For more information, see Error Codes.

Examples

This API uses `Transfer-Encoding: chunked` in the response by default. For readability, samples in this document are displayed without `Transfer-Encoding` . During use, different languages and libraries can automatically process this encoding form. For more information, see the language- and library-related documents.

Example 1: simple use case

Request

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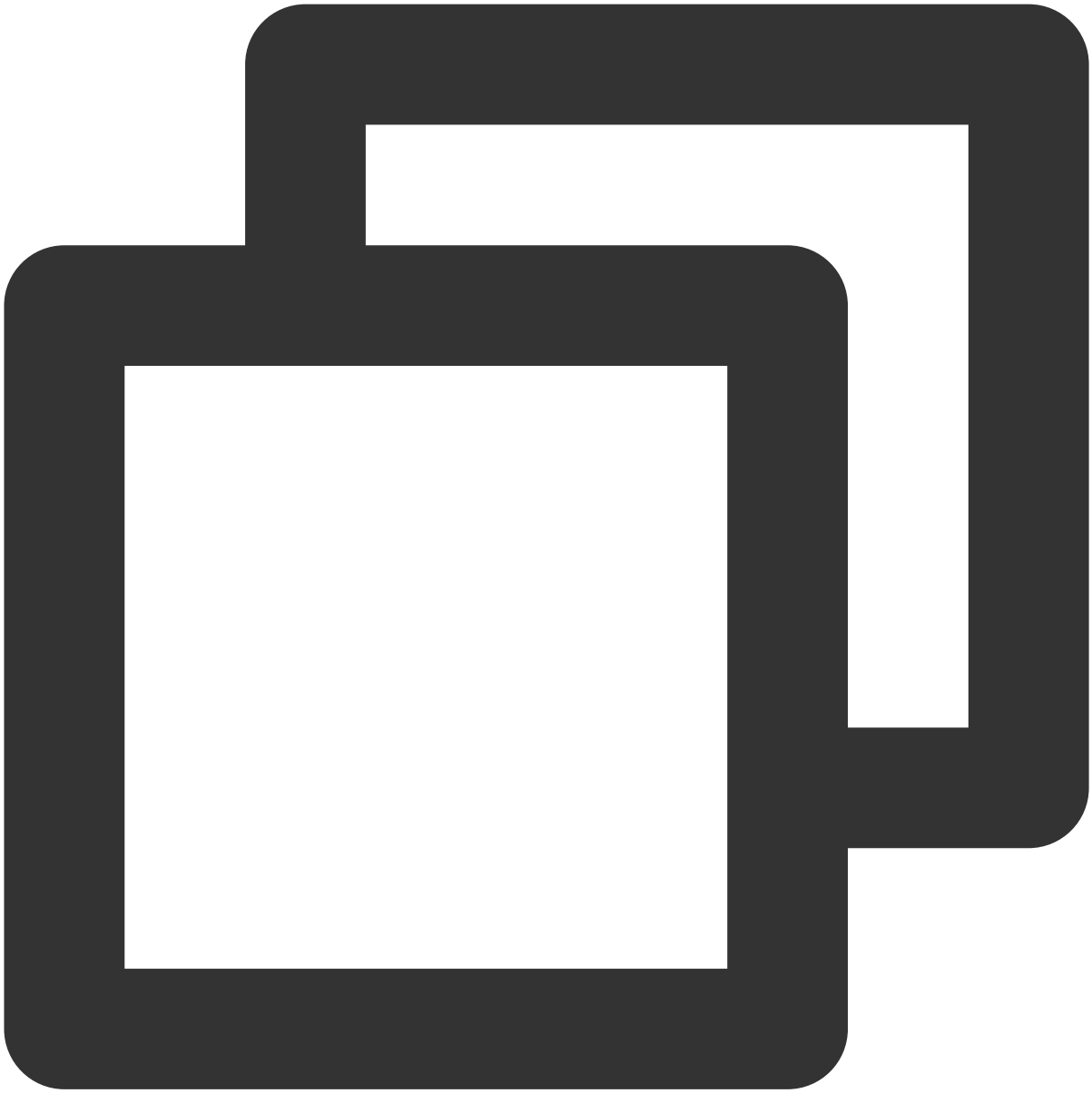

```
PUT /exampleobject HTTP/1.1
Host: destinationbucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:20:30 GMT
x-cos-copy-source: sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example-%E8
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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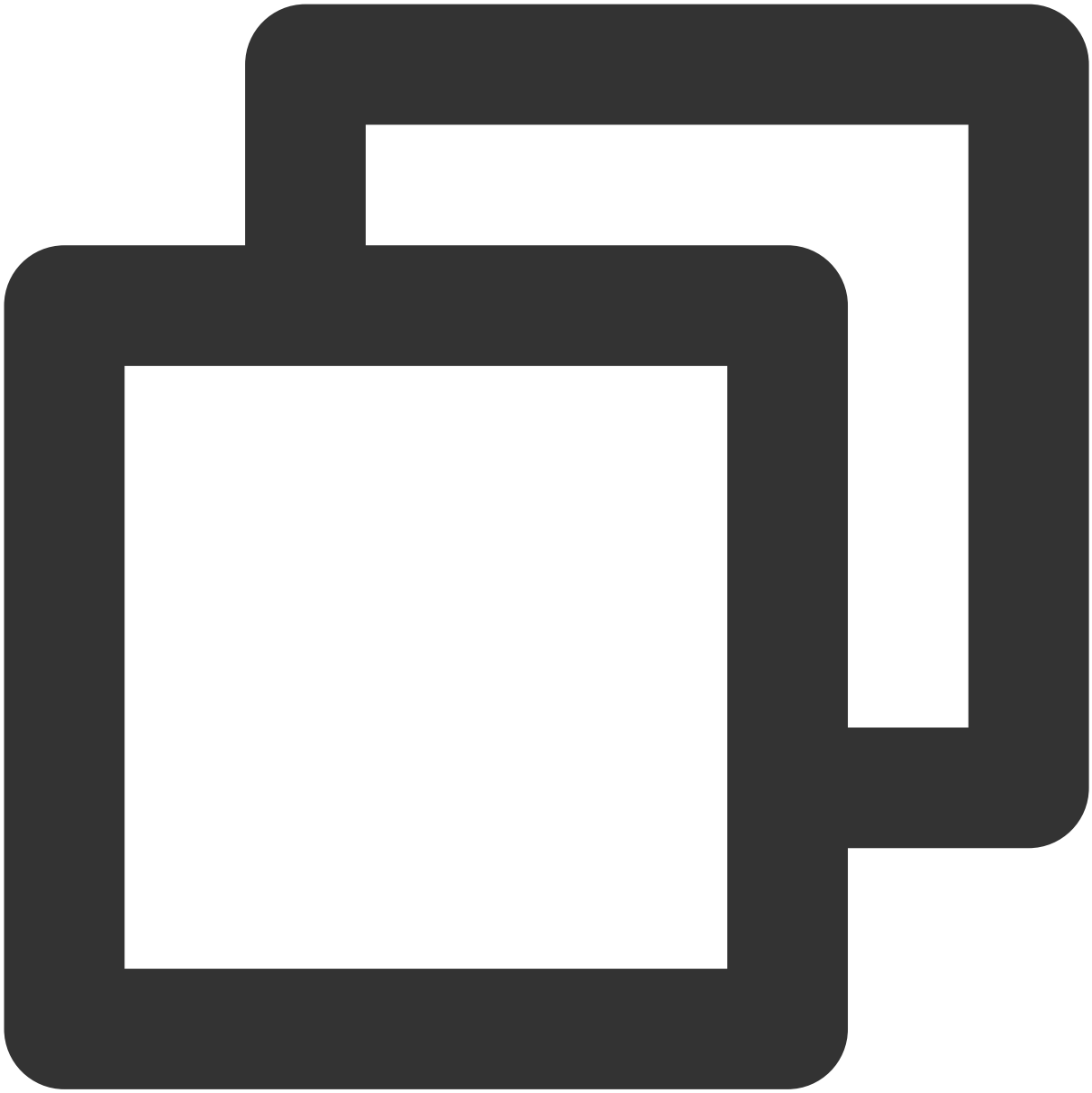

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Fri, 10 Apr 2020 18:20:30 GMT
Server: tencent-cos
x-cos-request-id: NWU5MGI4ZWVfNzljMDBiMDlfMWM3MjlfMWQ1****



<?xml version="1.0" encoding="UTF-8"?>
```

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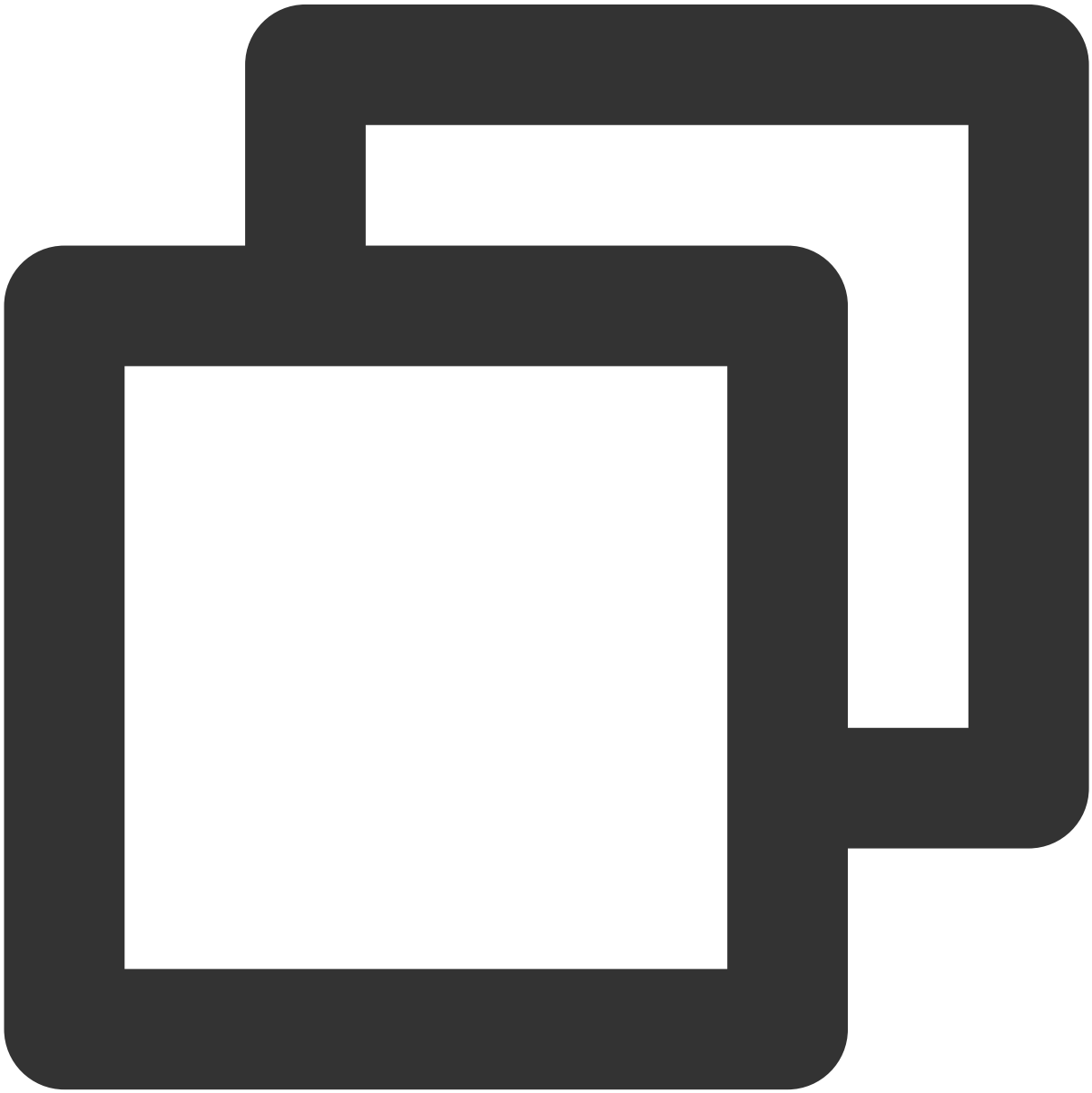
```
<CopyObjectResult>
            <ETag>"ee8de918d05640145b18f70f4c3aa602"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-10T18:20:30Z</LastModified>
</CopyObjectResult>
```

Sample 2: replacing metadata during copying

Request



```
PUT /exampleobject HTTP/1.1
```

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```
Host: destinationbucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:20:41 GMT
x-cos-metadata-directive: Replaced
Content-Type: application/octet-stream
Content-Disposition: attachment; filename=example.jpg
x-cos-copy-source: sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example-%E8
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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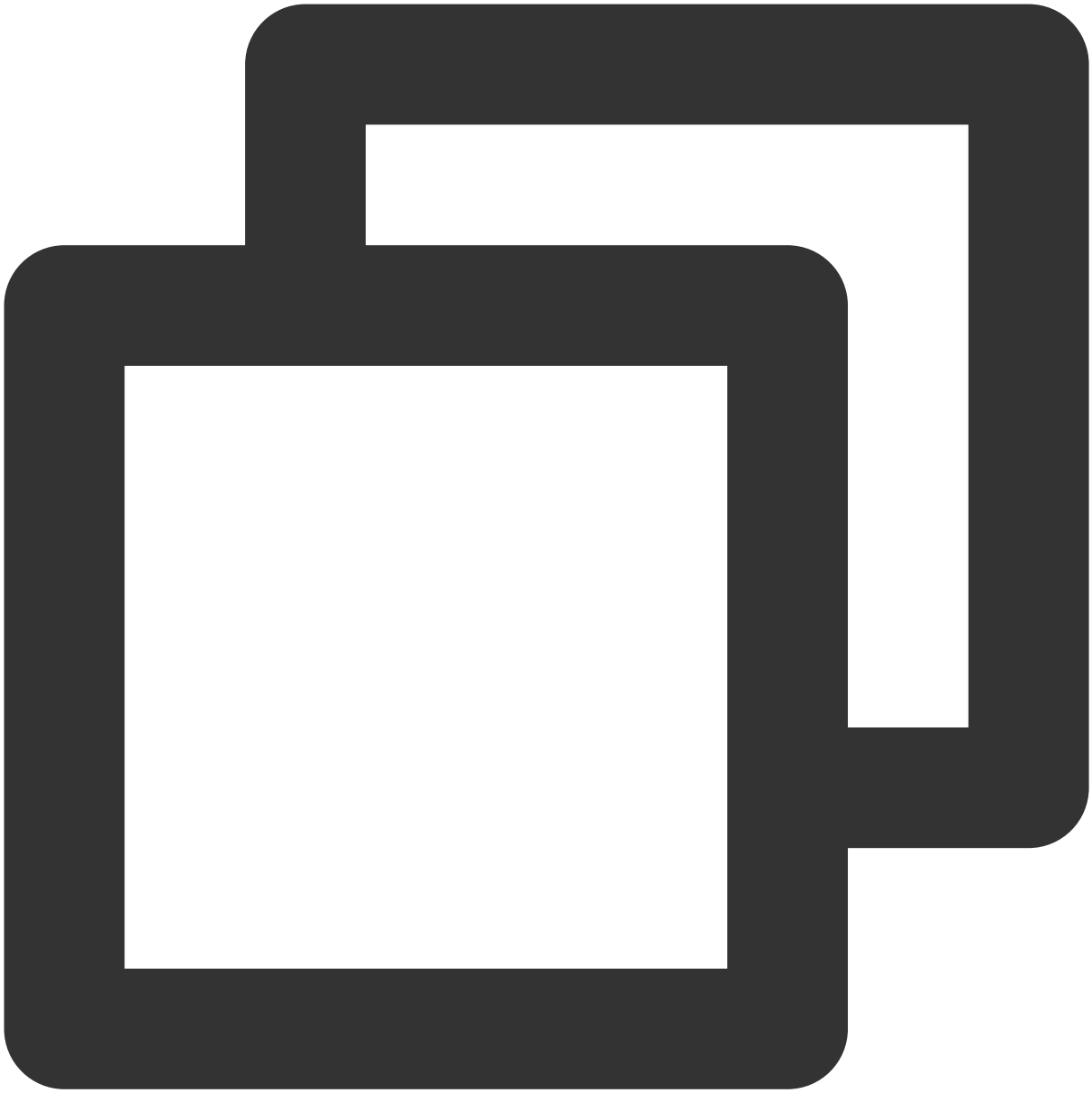

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Fri, 10 Apr 2020 18:20:41 GMT
Server: tencent-cos
x-cos-request-id: NWU5MGI4ZjlfYTZjMDBiMDlfN2Y1YV8xYjI4****



<?xml version="1.0" encoding="UTF-8"?>
```

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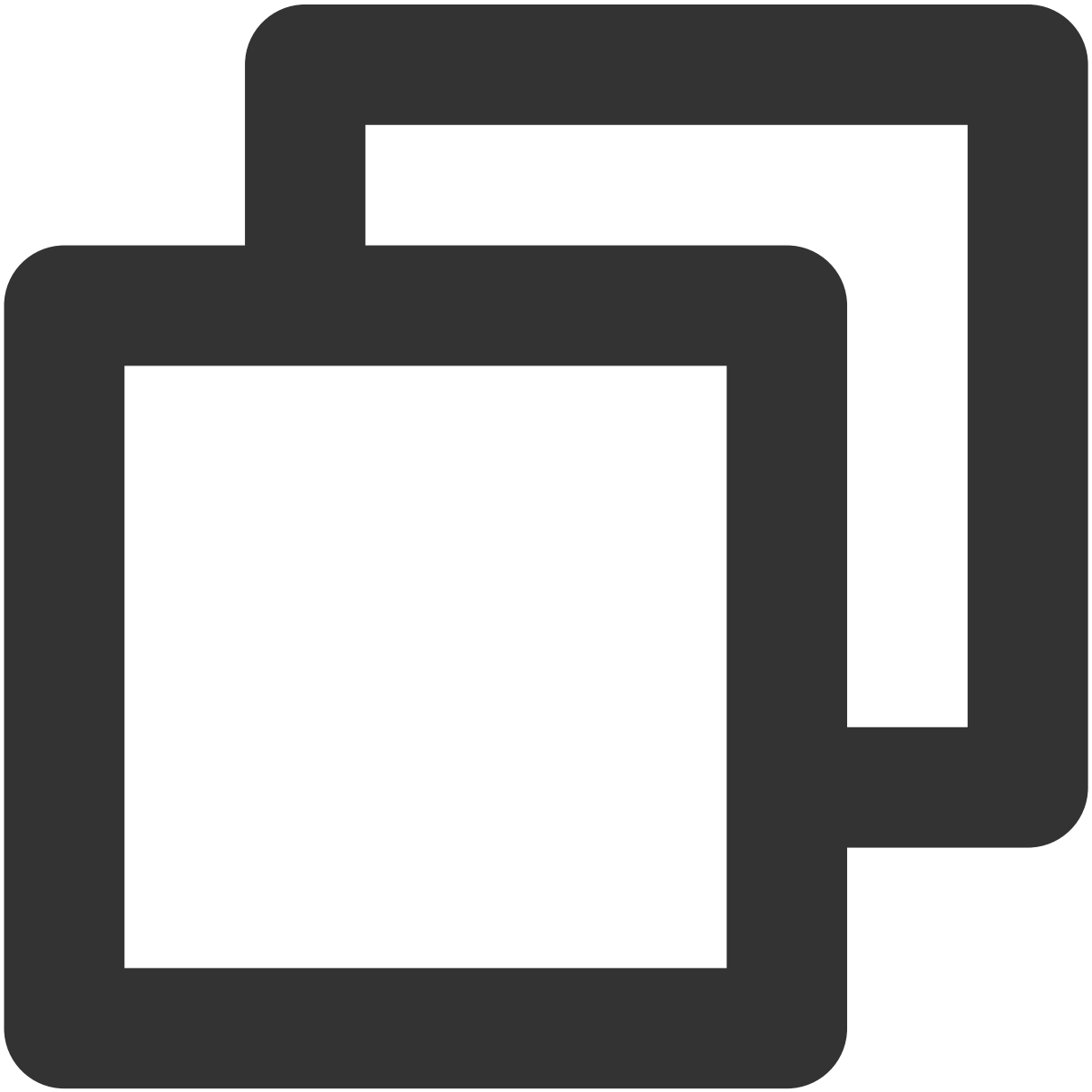
```
<CopyObjectResult>
            <ETag>"ee8de918d05640145b18f70f4c3aa602"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-10T18:20:41Z</LastModified>
</CopyObjectResult>
```

Sample 3: modifying object metadata

Request



```
PUT /exampleobject HTTP/1.1
```

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```
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:20:52 GMT
x-cos-metadata-directive: Replaced
Cache-Control: max-age=86400
Content-Type: image/jpeg
x-cos-copy-source: examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobje
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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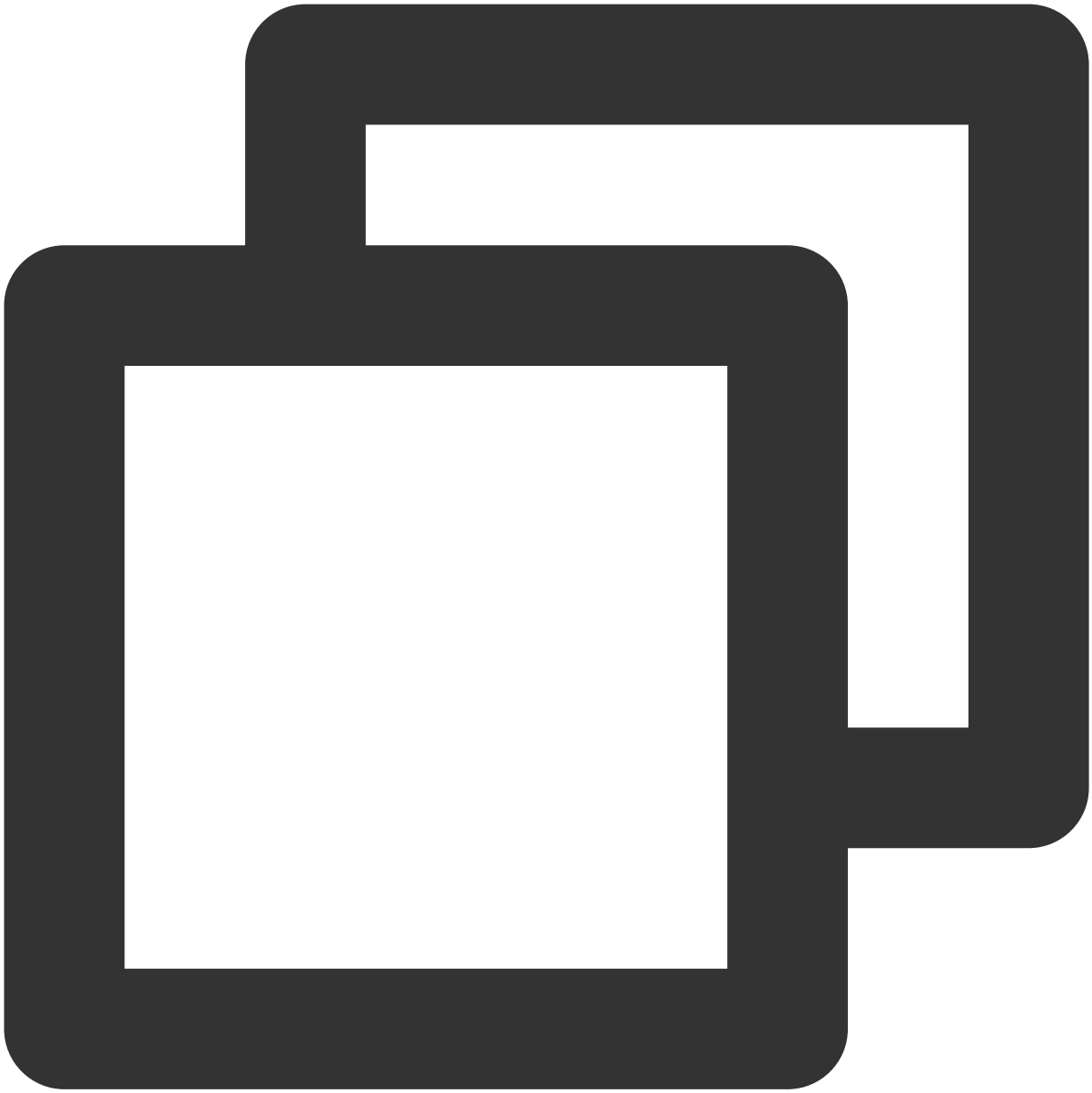

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Fri, 10 Apr 2020 18:20:52 GMT
Server: tencent-cos
x-cos-request-id: NWU5MGI5MDRfNmRjMDJhMDlfZGNmYl8yMDVh****



<?xml version="1.0" encoding="UTF-8"?>
```

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```
<CopyObjectResult>
            <ETag>"ee8de918d05640145b18f70f4c3aa602"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-10T18:20:52Z</LastModified>
</CopyObjectResult>
```

Sample 4: modifying the storage class of an object

This sample shows how to change the storage class of an object from STANDARD to ARCHIVE. This method is also suitable for switching between STANDARD and STANDARD_IA. If you want to change the storage class of an object stored in ARCHIVE/DEEP ARCHIVE to other storage classes, you need to call POST Object restore to restore the object before calling this API.

Request

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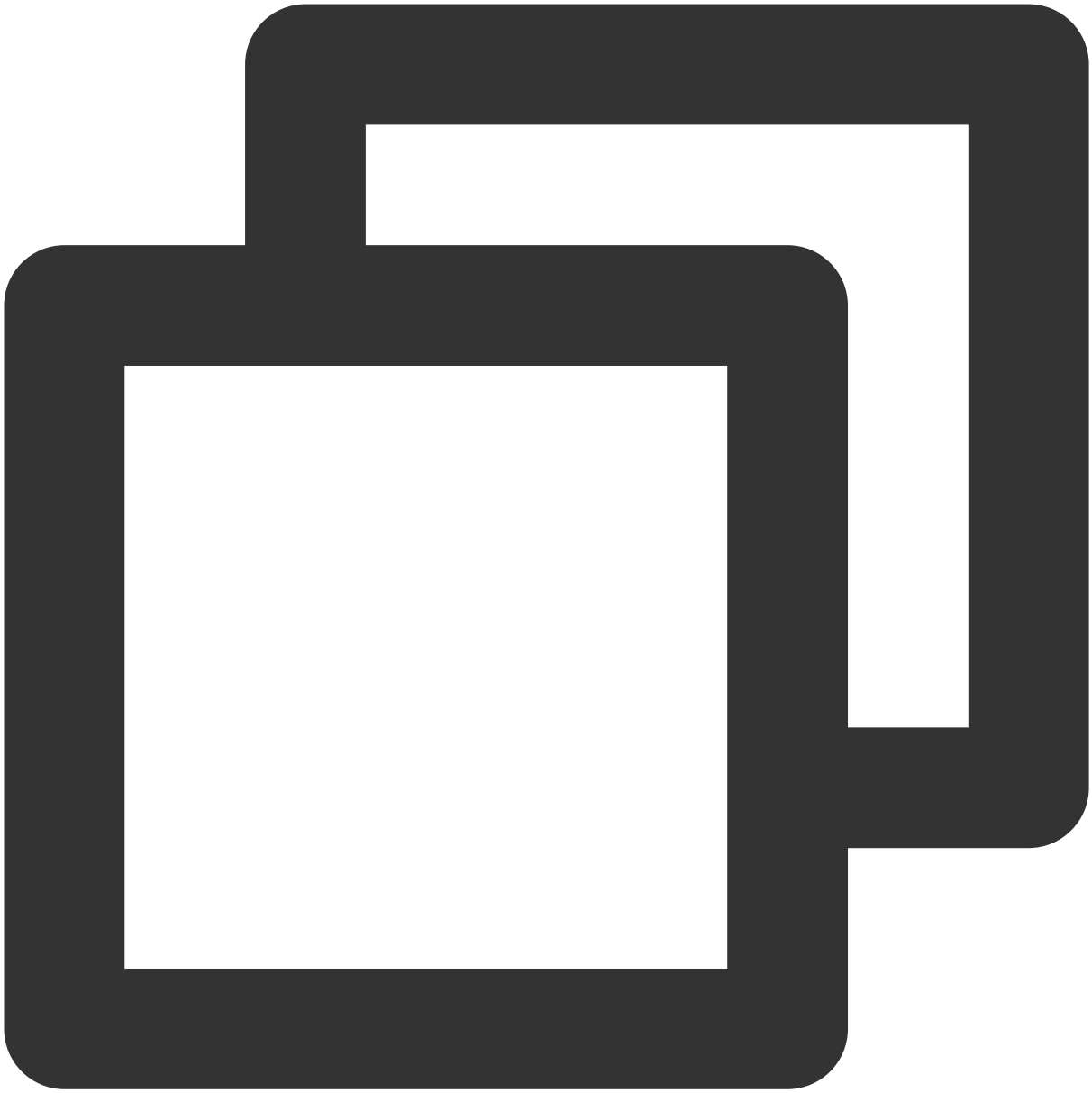

```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:21:02 GMT
x-cos-metadata-directive: Replaced
x-cos-storage-class: ARCHIVE
x-cos-copy-source: examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobje
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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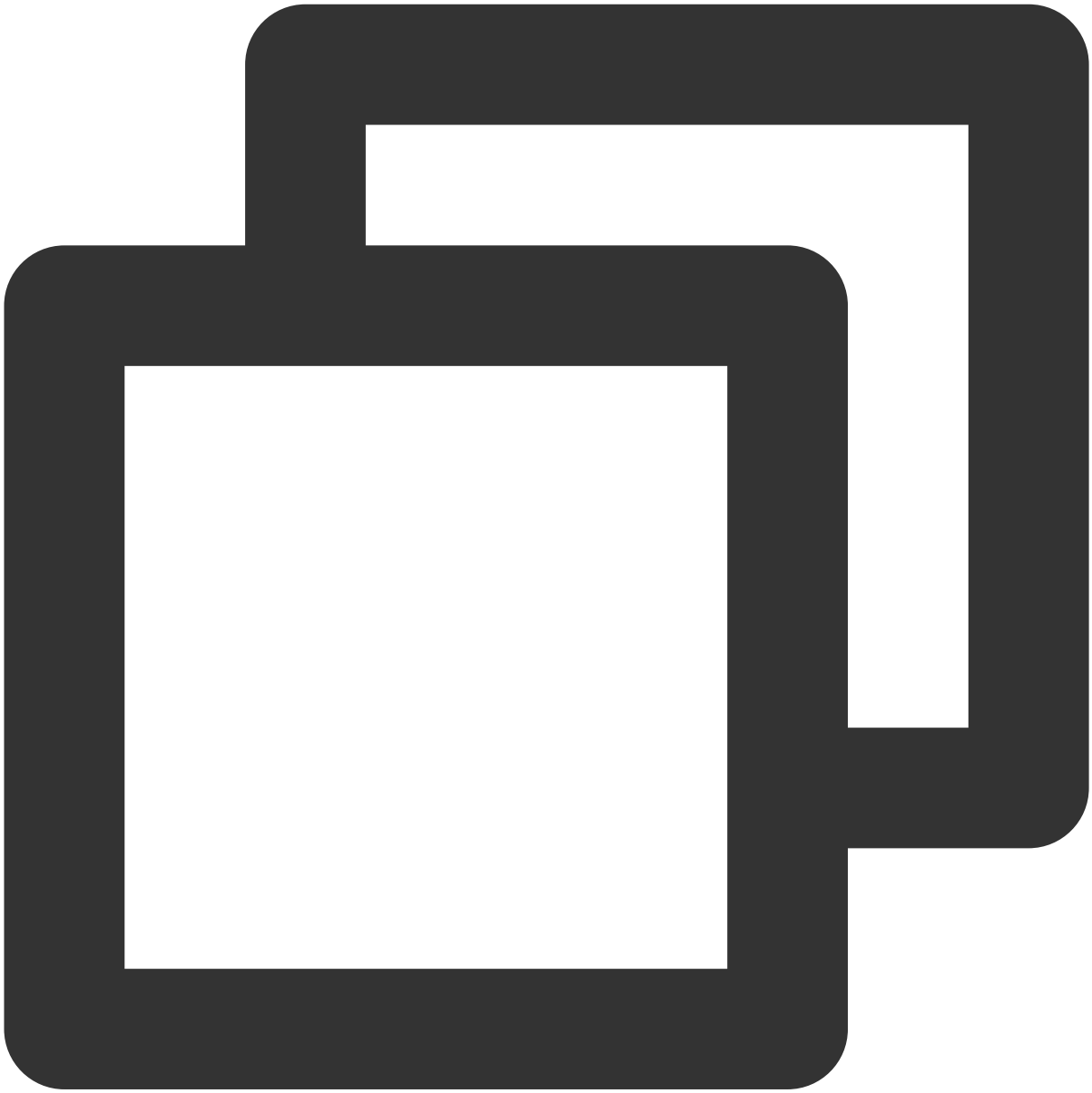
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Fri, 10 Apr 2020 18:21:02 GMT
Server: tencent-cos
x-cos-request-id: NWU5MGI5MGVfN2RiNDBiMDlfMTk1MjhfMWZm****
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<CopyObjectResult>
            <ETag>"ee8de918d05640145b18f70f4c3aa602"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-10T18:21:55Z</LastModified>
</CopyObjectResult>
```

Sample 5: copying an unencrypted object to a destination object encrypted with SSE-COS

Request

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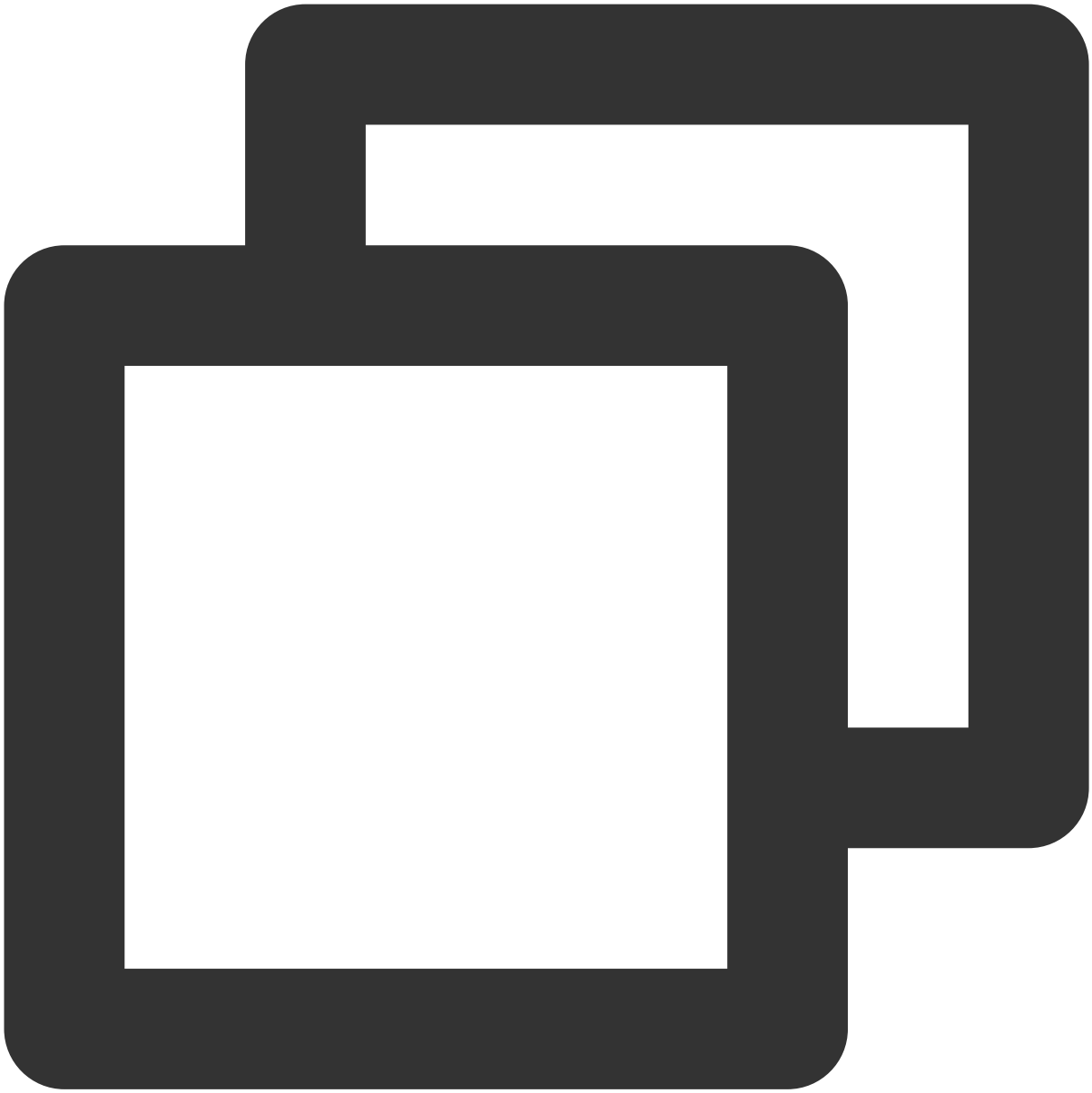

```
PUT /exampleobject HTTP/1.1
Host: destinationbucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:21:12 GMT
x-cos-server-side-encryption: AES256
x-cos-copy-source: sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example-%E8
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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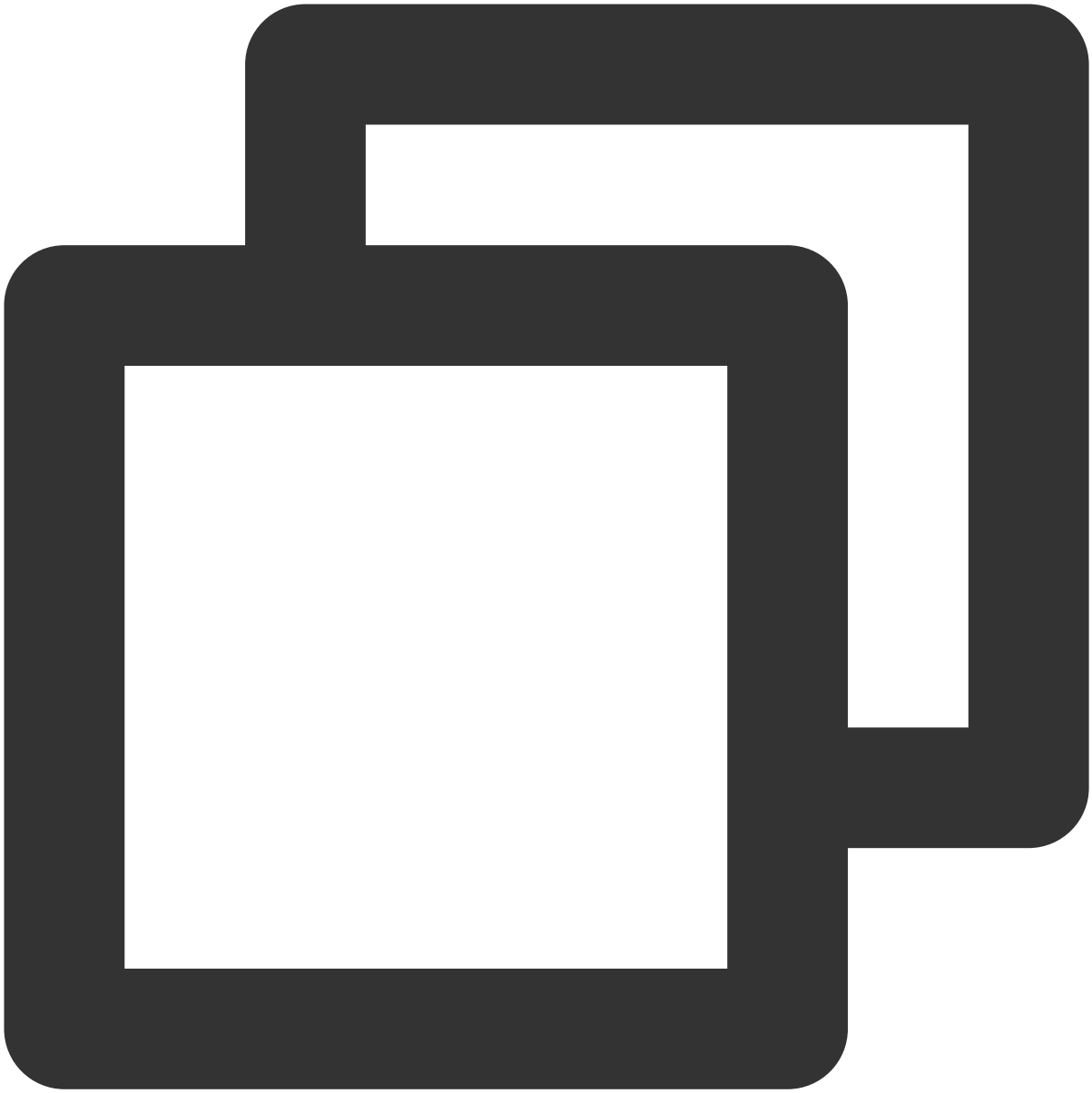

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Fri, 10 Apr 2020 18:21:13 GMT
Server: tencent-cos
x-cos-request-id: NWU5MGI5MTlfYmIwMmEwOV9hMmUxXzFkMDQ2****
x-cos-server-side-encryption: AES256
```

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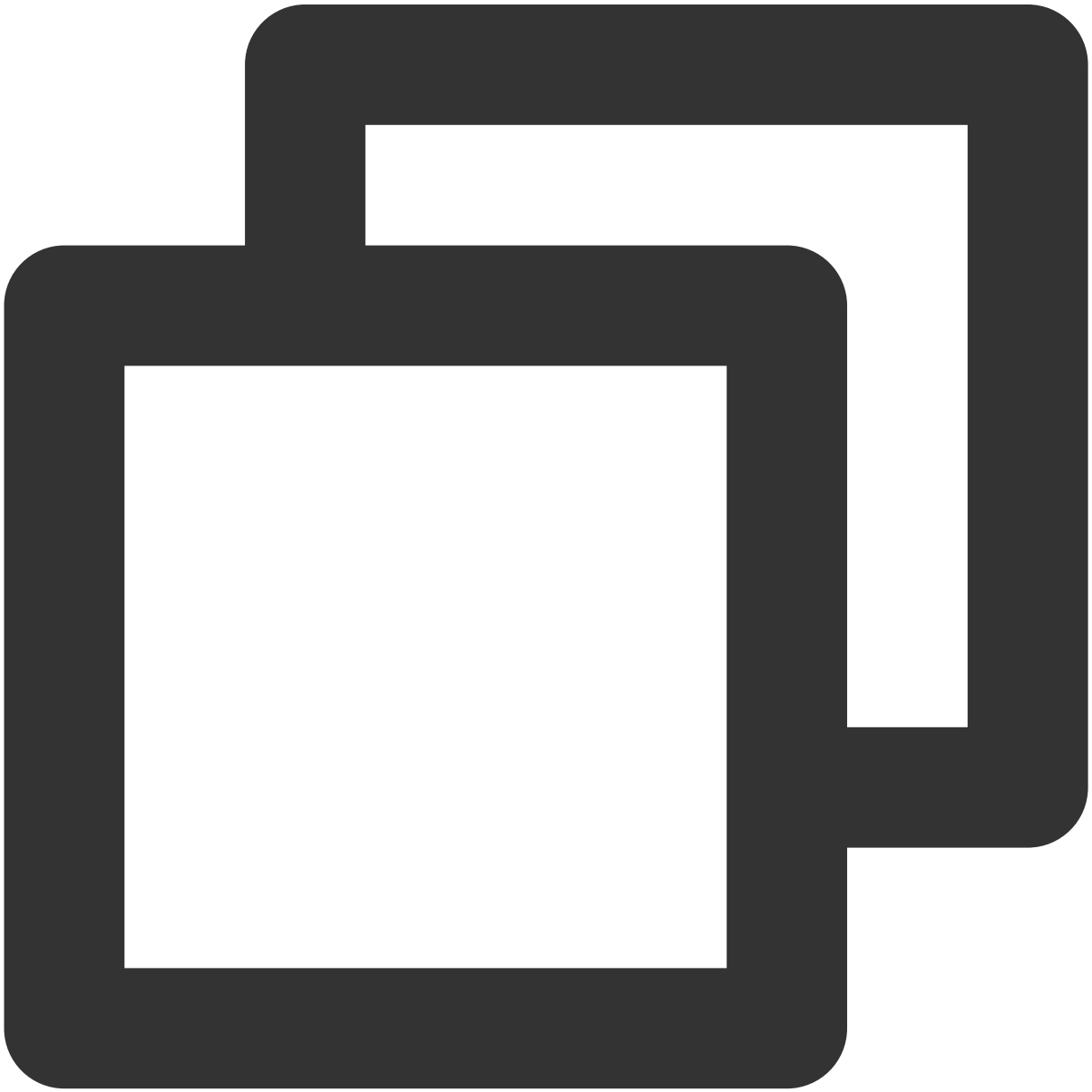
```
<?xml version="1.0" encoding="UTF-8"?>
<CopyObjectResult>
            <ETag>"ee8de918d05640145b18f70f4c3aa602"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-10T18:21:13Z</LastModified>
</CopyObjectResult>
```

Sample 6: copying an unencrypted object to a destination object encrypted with SSE-KMS

Request



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```
PUT /exampleobject HTTP/1.1
Host: destinationbucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:21:23 GMT
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
x-cos-server-side-encryption-context: eyJhdXRob3IiOiJmeXNudGlhbiIsImNvbXBhbnkiOiJUZ
x-cos-copy-source: sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example-%E8
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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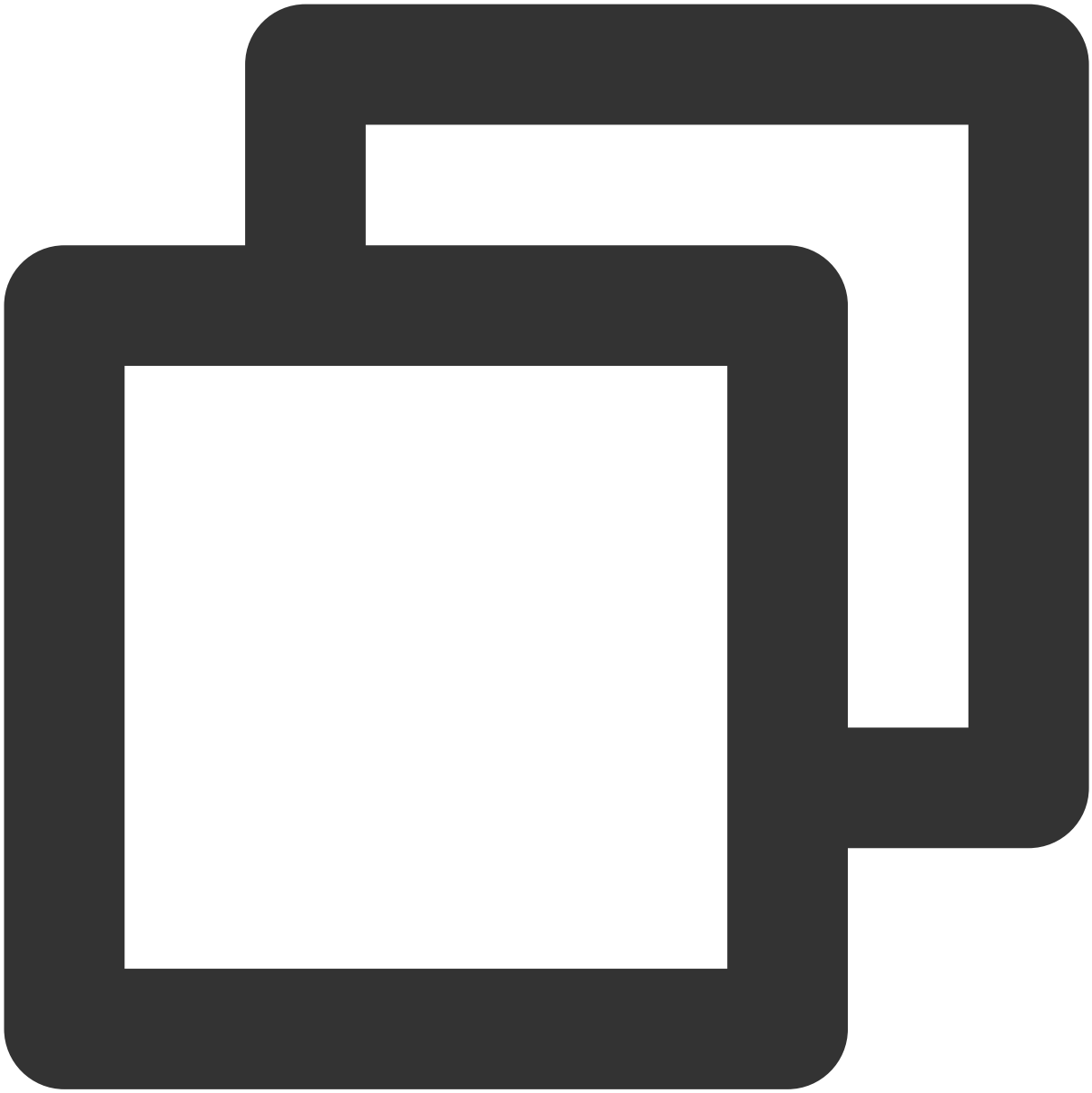

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Fri, 10 Apr 2020 18:21:23 GMT
Server: tencent-cos
x-cos-request-id: NWU5MGI5MjNfMTliOTJhMDlfMjRiYThfMTdk****
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<CopyObjectResult>
            <ETag>"f69901ec9755a5defc29057e9ec69126"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-10T18:22:16Z</LastModified>
</CopyObjectResult>
```

Sample 7: copying an object encrypted with SSE-C and replacing the key

Request

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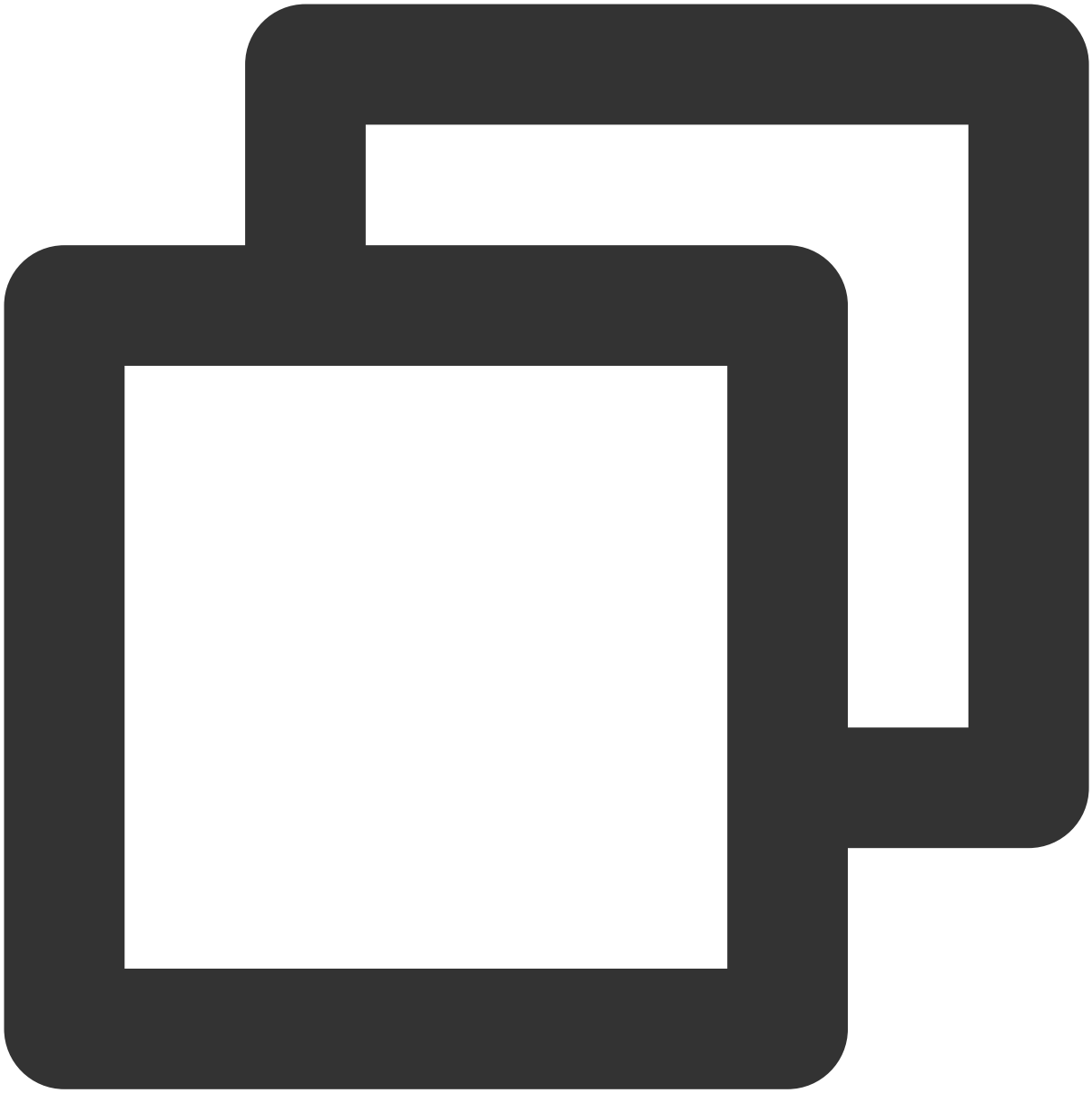

```
PUT /exampleobject HTTP/1.1
Host: destinationbucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:21:44 GMT
x-cos-copy-source-server-side-encryption-customer-algorithm: AES256
x-cos-copy-source-server-side-encryption-customer-key: MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0
x-cos-copy-source-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key: MDEyMzQ1Njc4OWFiY2RlZjAxMjM0NTY3ODlhYmNk
x-cos-server-side-encryption-customer-key-MD5: hRasmdxgYDKV3nvbahU1MA==
x-cos-copy-source: sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example-%E8
Content-Length: 0
```

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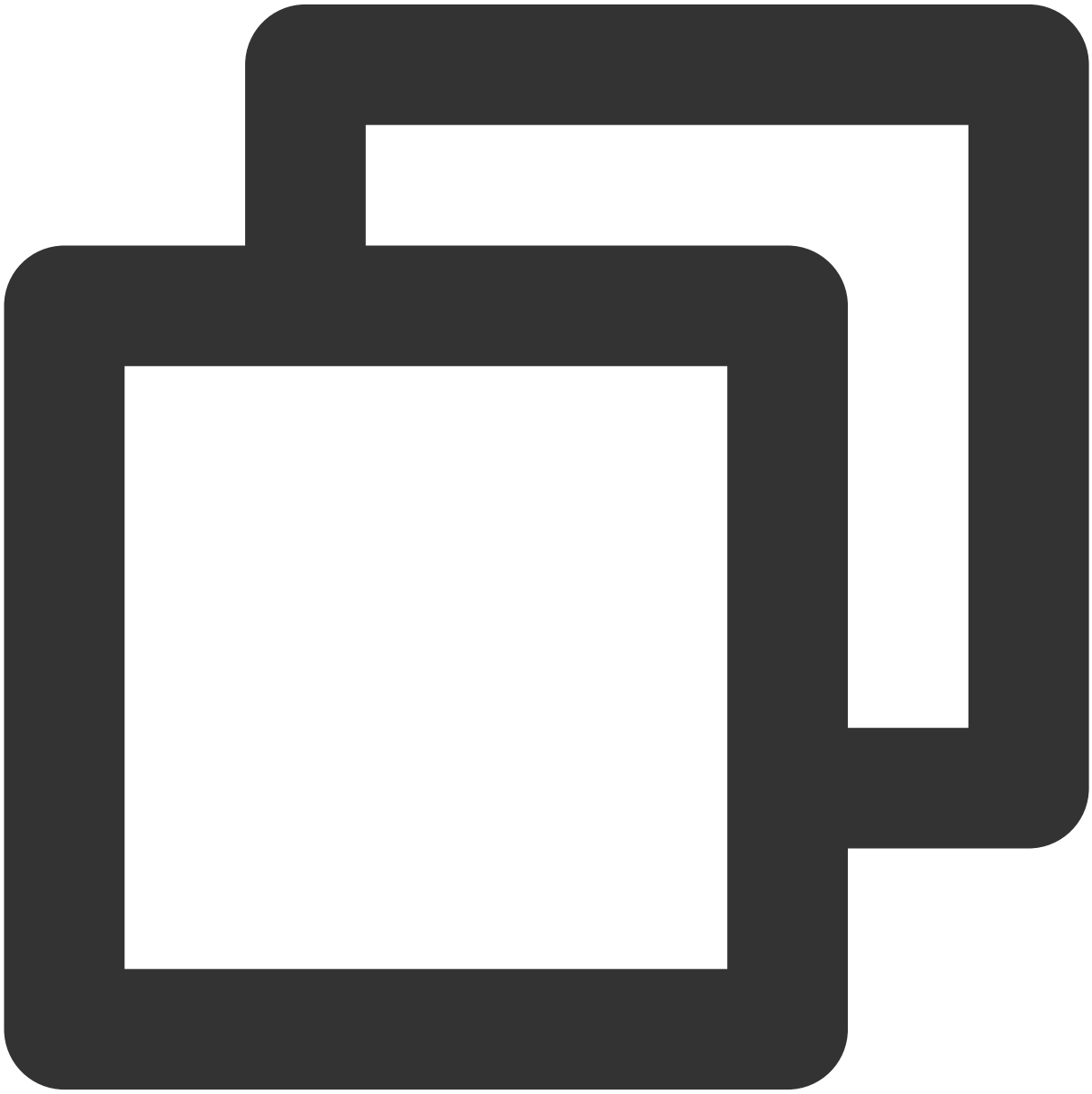
```
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Fri, 10 Apr 2020 18:21:44 GMT
Server: tencent-cos
```

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```
x-cos-request-id: NWU5MGI5MzhfZmFjODJhMDlfMTdlYzZfYmU1****
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key-MD5: hRasmdxgYDKV3nvbahU1MA==



<?xml version="1.0" encoding="UTF-8"?>
<CopyObjectResult>
            <ETag>"bf314b89d34119395d5610982d6581b1"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-10T18:22:31Z</LastModified>
</CopyObjectResult>
```

Sample 8: modifying an object encrypted with SSE-C to non-encrypted

Request

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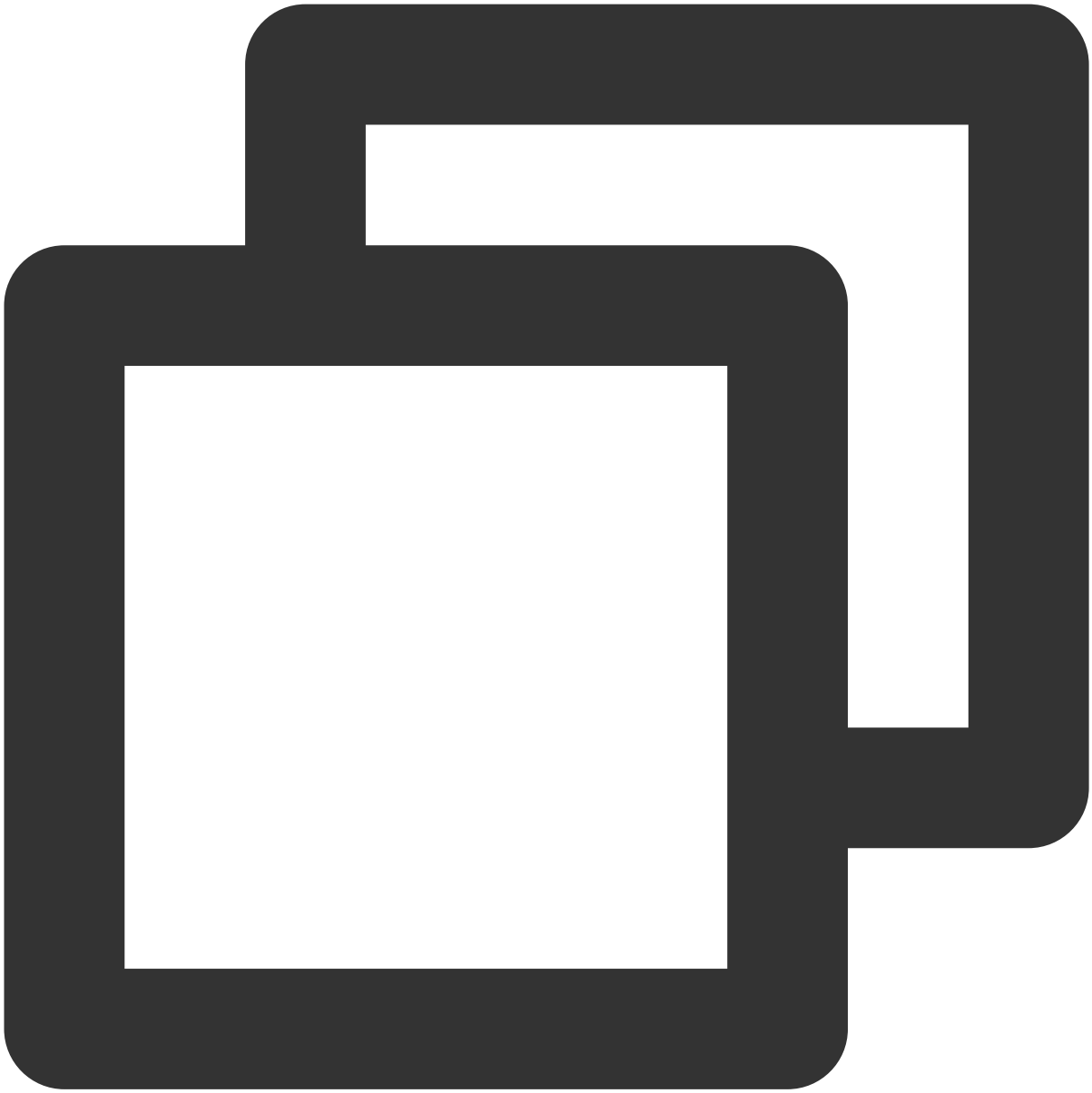

```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:22:05 GMT
x-cos-metadata-directive: Replaced
x-cos-copy-source-server-side-encryption-customer-algorithm: AES256
x-cos-copy-source-server-side-encryption-customer-key: MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0
x-cos-copy-source-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
x-cos-copy-source: examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobje
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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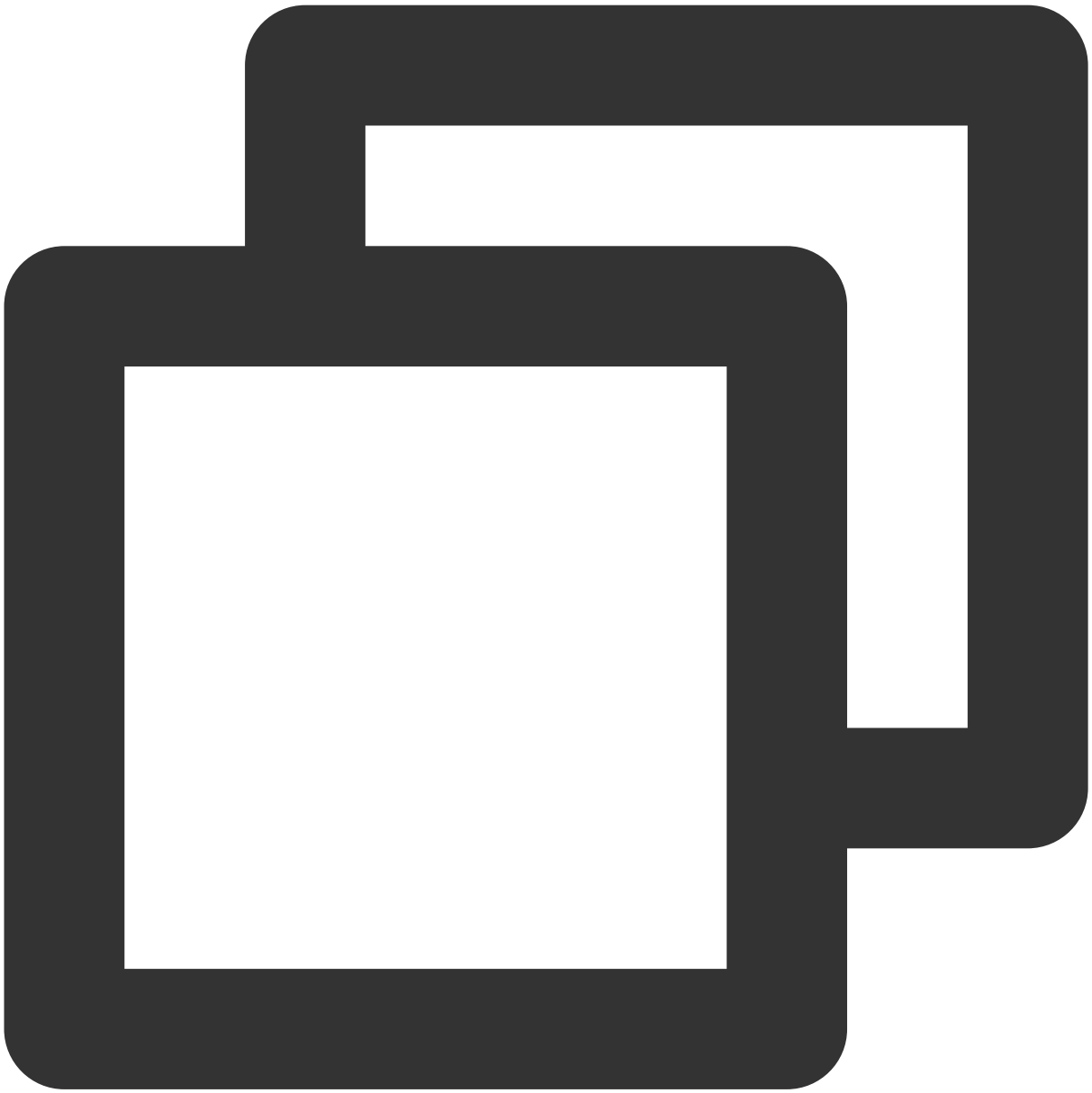
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Fri, 10 Apr 2020 18:22:05 GMT
Server: tencent-cos
x-cos-request-id: NWU5MGI5NGRfOWFjOTJhMDlfMjg2NDdfMTA0****
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<CopyObjectResult>
            <ETag>"ee8de918d05640145b18f70f4c3aa602"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-10T18:22:58Z</LastModified>
</CopyObjectResult>
```

Sample 9: specifying the version of the source object

Request

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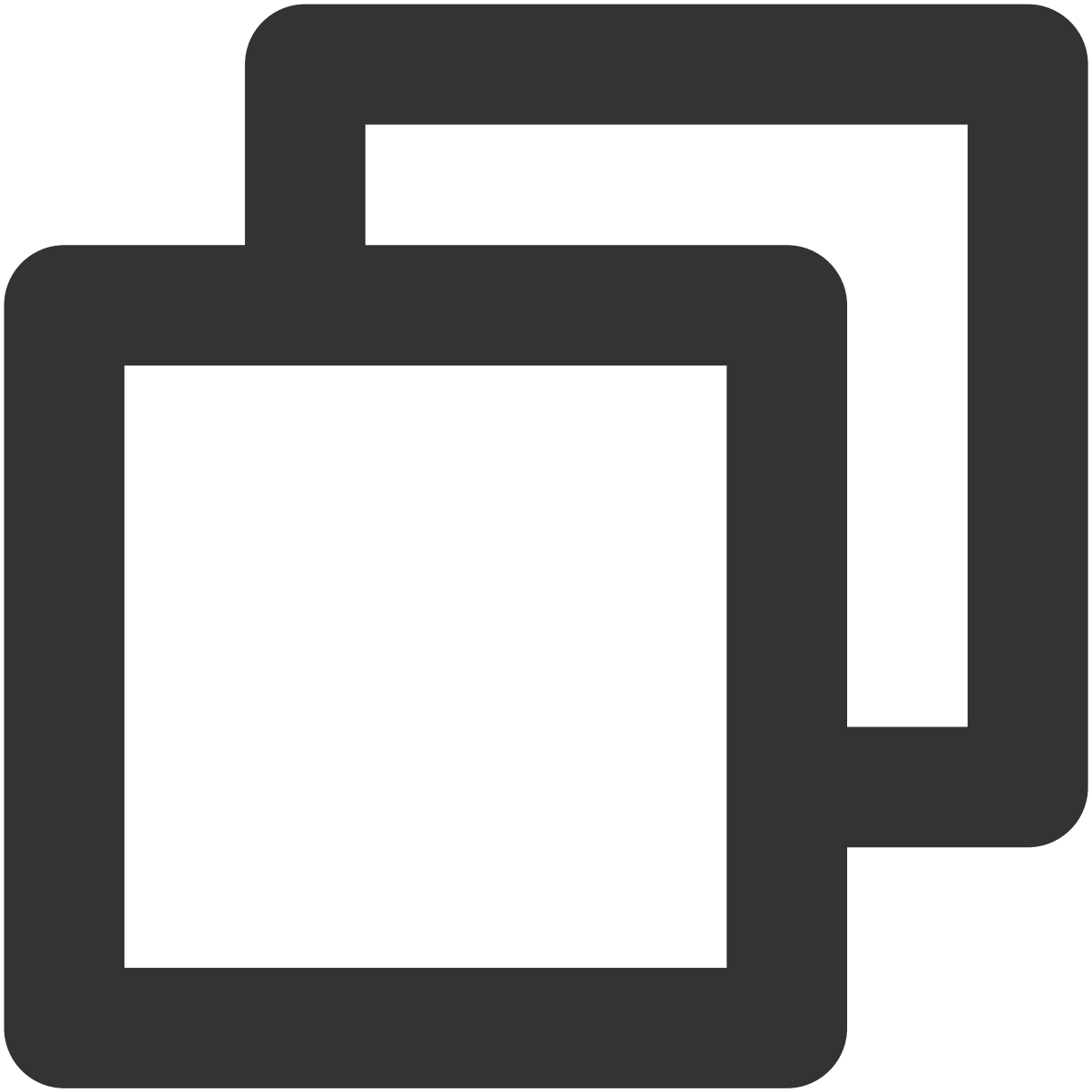

```
PUT /exampleobject HTTP/1.1
Host: destinationbucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 11 Apr 2020 17:51:35 GMT
x-cos-copy-source: sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example.jpg
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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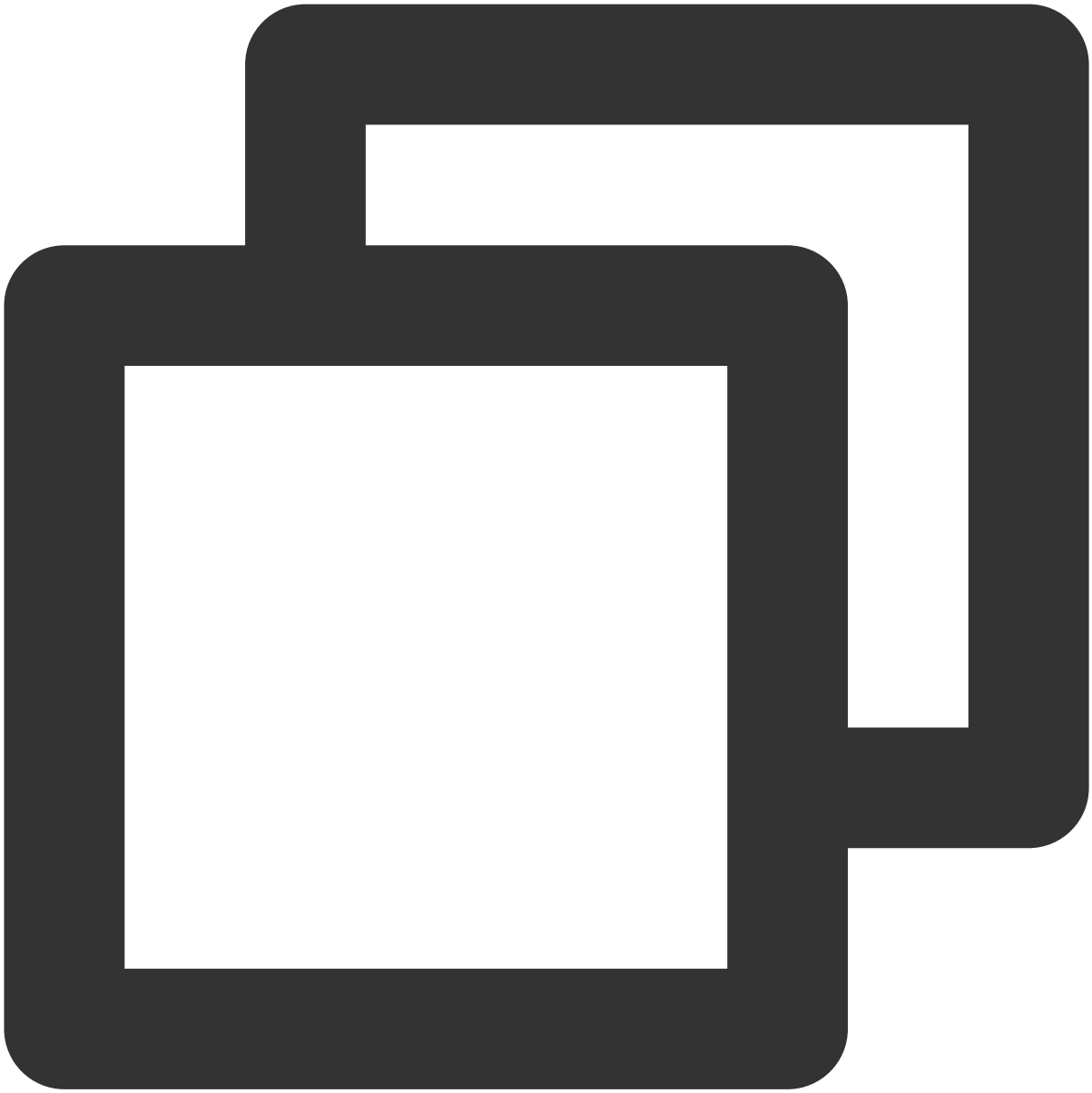

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 219
Connection: close
Date: Sat, 11 Apr 2020 17:51:35 GMT
Server: tencent-cos
x-cos-copy-source-version-id: MTg0NDUxNTc0NDYyMjQ2MzUzMjQ
x-cos-request-id: NWU5MjAzYTdfMWZjMDJhMDlfNTE4N18zNGU2****
```

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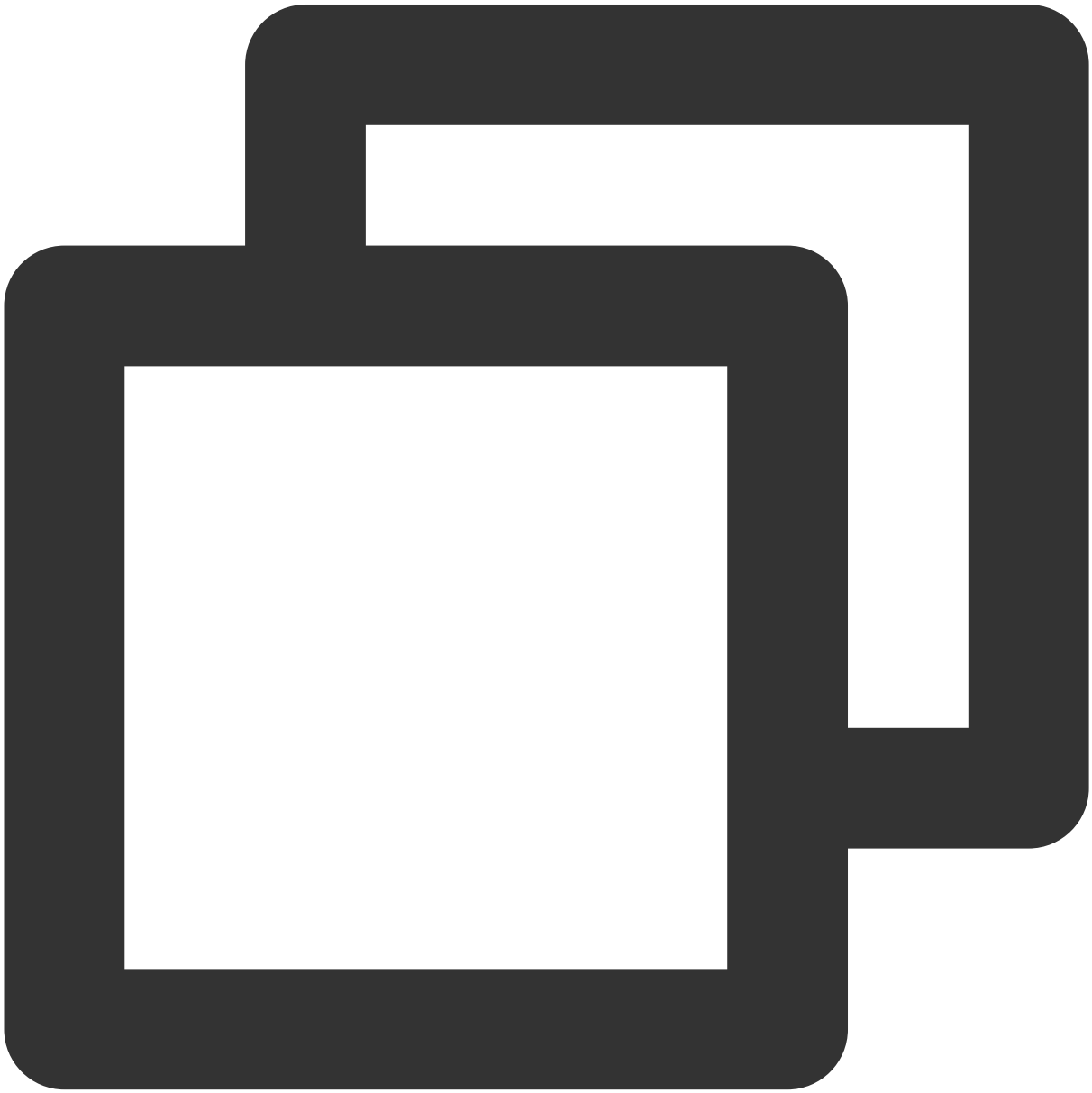
```
<?xml version="1.0" encoding="UTF-8"?>
<CopyObjectResult>
            <ETag>"ee8de918d05640145b18f70f4c3aa602"</ETag>
            <CRC64>16749565679157681890</CRC64>
            <LastModified>2020-04-11T17:51:35Z</LastModified>
</CopyObjectResult>
```

Sample 10: copying an object to a versioning-enabled bucket

Request



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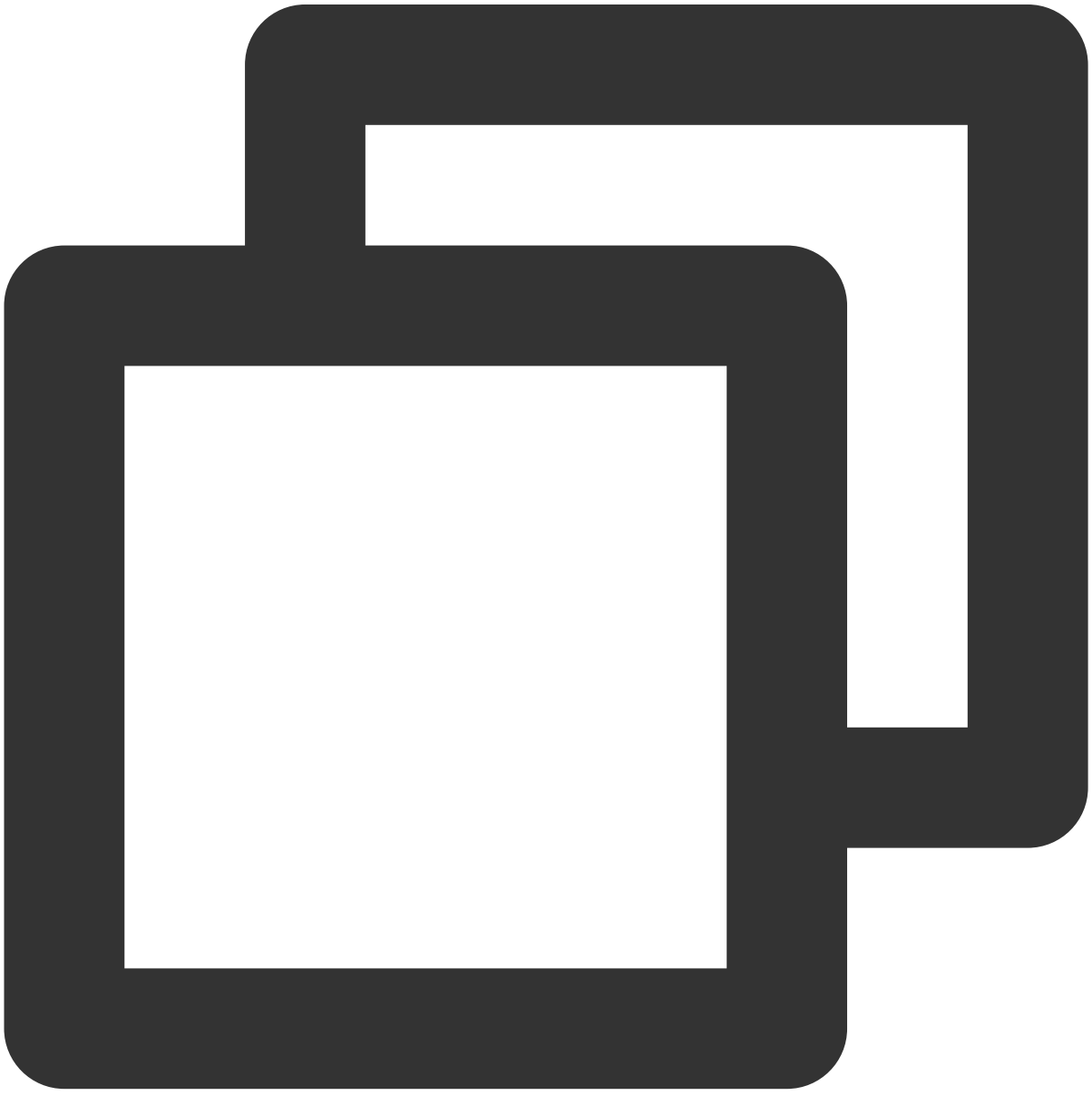
```
PUT /exampleobject HTTP/1.1
Host: destinationbucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 11 Apr 2020 17:51:56 GMT
x-cos-copy-source: sourcebucket-1250000001.cos.ap-shanghai.myqcloud.com/example.jpg
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



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```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 272
Connection: close
Date: Sat, 11 Apr 2020 17:51:56 GMT
Server: tencent-cos
x-cos-request-id: NWU5MjAzYmNfNjRiMDJhMDlfOTE3N18yYWI4****



<?xml version="1.0" encoding="UTF-8"?>
<CopyObjectResult>
            <ETag>"22e024392de860289f0baa7d6cf8a549"</ETag>
            <CRC64>11596229263574363878</CRC64>
            <LastModified>2020-04-11T17:51:56Z</LastModified>
            <VersionId>MTg0NDUxNTc0NDYxOTI4MzU0MDI</VersionId>
</CopyObjectResult>
```

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POST Object

Last updated：2024-06-12 15:10:38

Feature Description

This API is used to upload an object within 5 GB to a bucket using an HTML form. To call this API, you need to have permission to write to the bucket.

Note:

This API requires a signature different from the standard COS request signatures. For more information, see Signature protection and the description of related fields.

If you upload an object whose name is the same as another object that is already stored in the bucket with versioning disabled, the old object will be overwritten and the response will be returned normally as specified upon successful upload.

To upload an image, see the PUT Object API examples for data filling.

Versioning

For a versioning-enabled bucket, COS will automatically generate a unique version ID for the object, and the ID will be returned in the `x-cos-version-id` response header.

For a versioning-suspended bucket, COS will always use `null` as the version ID of the object and will not return the `x-cos-version-id` response header.

Request

Sample request

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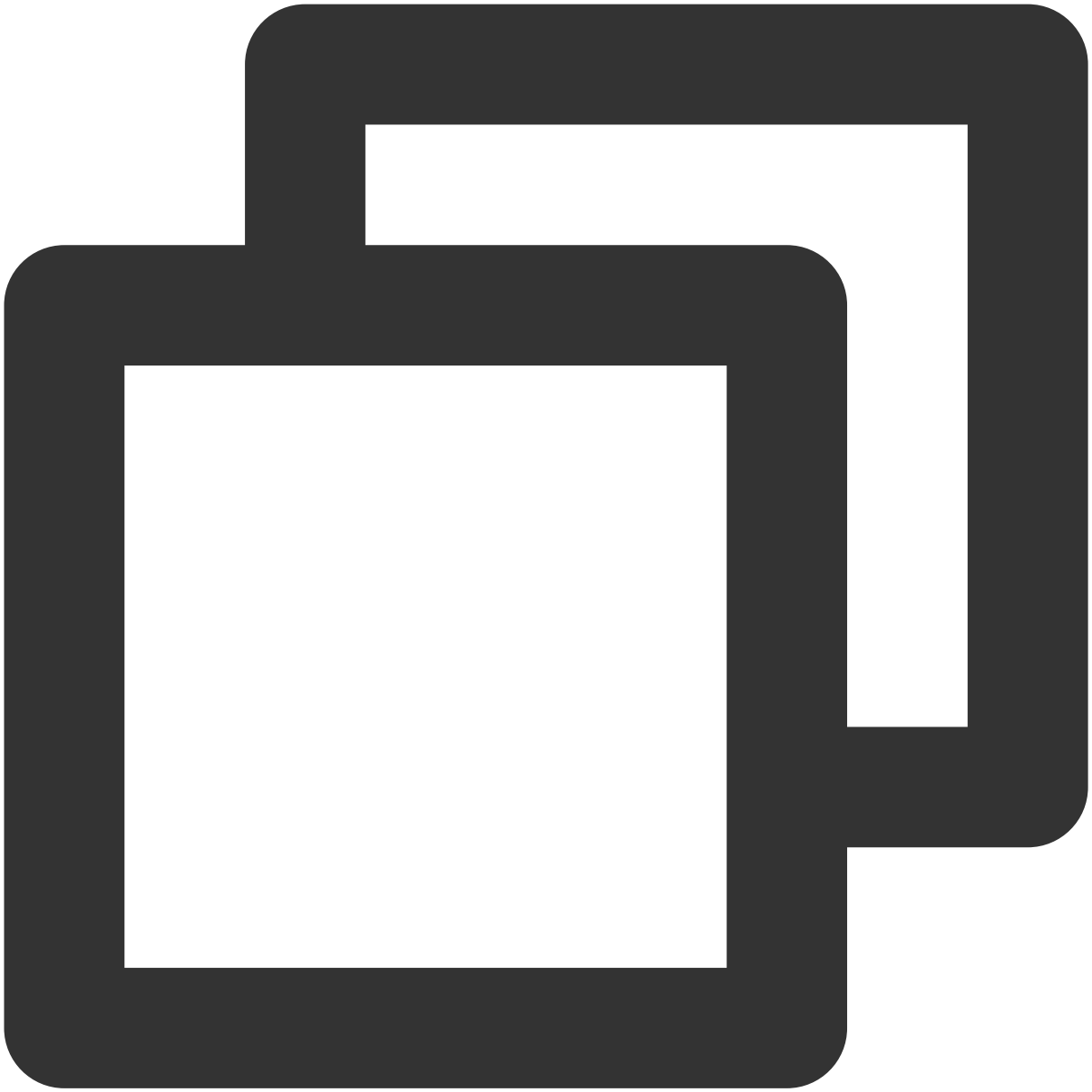

```
POST / HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: multipart/form-data; boundary=Multipart Boundary
Content-Length: Content Length



[Multipart Form Data]
```

Note:

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Host: <BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the bucket name followed by the `APPID` , such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Request form

The request body of this API is encoded with multipart/form-data. When sending the request with the HTML <form> element, set the value of the `enctype` attribute to `multipart/form-data` . After this, use HTML elements (such as <input> and <select>) to add form fields as needed.

Form fields

Field	Description	Type	Required
key	Object key. If you use the `${filename}` wildcard in the object key, the wildcard will be replaced with the name of the object uploaded (see Example 7).	string	Yes
Cache-Control	Cache directives defined in RFC 2616. It will be stored as object metadata.	string	No
Content-Disposition	Filename defined in RFC 2616. It will be stored as object metadata.	string	No
Content-Encoding	Encoding format defined in RFC 2616. It will be stored as object metadata.	string	No
Content-Type	HTTP content type (MIME) defined in RFC 2616. It will be stored as object metadata **Note:** If a file is uploaded via an HTML form, the browser will automatically carry the file's MIME type in the request. However, COS will not use this MIME type carried. Therefore, you need to use the `Content-Type` field to specify the content type of the object.	string	No
Expires	Cache expiration time defined in RFC 2616. It will be stored as object metadata.	string	No
success_action_redirect	Redirection target URL if the upload succeeds. If this field is set, HTTP status code "303 (Redirect)" and the `Location` response header will be returned. `Location` will include the URL specified in this field as well as the bucket, key, and ETag parameters (see Example 8).	string	No
success_action_status	HTTP status code to return for a successful upload. Valid	number	No

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	values: `200`, `201`, `204` (default). If `success_action_redirect` is specified, this field will be ignored (see Example 9).		
x-cos-meta-*	User-defined metadata and header suffixes. It will be stored as object metadata. Maximum size: 2 KB. **Note**: User-defined metadata can contain underscores (_), but header suffixes can contain minus signs (–) but not underscores.	string	No
x-cos-storage-class	Object storage class. For the enumerated values, such as `STANDARD` (default), `INTELLIGENT_TIERING`, `STANDARD_IA`, `ARCHIVE`, and `DEEP_ARCHIVE`, see Storage Class Overview.	Enum	No
x-cos-traffic-limit	Limits the speed (in bit/s) for the current upload for traffic control. Valid range: 819200–838860800 (i.e., 100 KB/s–100 MB/s). If the speed exceeds the limit, a 400 error will be returned.	integer	No
Content-MD5	MD5 checksum of the Base64-encoded file content. It is used for integrity check, i.e., whether the file content has changed during the upload.	string	No
file	File information and content. When the file is uploaded via an HTML form, the browser automatically sets the value of this parameter to the correct format. **Note**: This field must be placed at the end of the form.	file	Yes

ACL-related form fields

You can configure access permissions for the object by specifying the following form fields during upload:

Field	Description	Type	Required
acl	Defines the ACL attribute of the object. For the enumerated values, such as `default` (default), `private`, and `public-read`, see the **Preset ACL** section in ACL Overview. **Note**: If you do not need to set an ACL for the object, set this parameter to `default` or leave it empty. In this way, the object will inherit the permissions of the bucket it is stored in.	Enum	No
x-cos-grant-read	Grants a user permission to read the object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No

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x-cos-grant-read-acp	Grants a user permission to read the ACL of an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-write-acp	Grants a user permission to write to the ACL of an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-full-control	Grants a user full permission to operate on an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use comma (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No

SSE-related form fields

You can use server-side encryption by specifying the following form fields during upload:

Field	Description	Type	Required
x-cos-server-side-encryption	Server-side encryption algorithm. `AES256` and `cos/kms` are supported.	string	Required if SSE-COS or SSE-KMS is used
x-cos-server-side-encryption-customer-algorithm	Server-side encryption algorithm. AES256 is supported.	string	Required if SSE-C is used
x-cos-server-side-encryption-cos-kms-key-id	Customer master key (CMK) of KMS if `x-cos-server-side-encryption` is set to `cos/kms`. If this field is not specified, the default CMK created by COS will be used. For more information, see SSE-KMS Encryption.	string	No
x-cos-server-side-encryption-context	Base64-encoded encryption context (key-value pairs in JSON format) if `x-cos-server-side-encryption` is set to `cos/kms`. Example: `eyJhIjoiYXNkZmEiLCJiIjoiMTIzMzIxIn0=`	string	No

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x-cos-server-side-encryption-customer-key	Base64-encoded server-side encryption key Example: `MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNERUY=`	string	Required if SSE-C is used
x-cos-server-side-encryption-customer-key-MD5	Base64-encoded MD5 checksum of the server-side encryption key Example: `U5L61r7jcwdNvT7frmUG8g==`	string	Required if SSE-C is used

Signature protection

This API requires signature-related fields to be carried in the request. COS authenticates the messages carried, and if the authentication is passed, COS executes the request. If not, COS returns an error message and discards the request.
You can generate a signature as follows:

1. Preparations

Log in to the CAM console and go to Manage API Key to get the `SecretId` and `SecretKey`.

2. Generate KeyTime

a. Get the Unix `StartTimestamp` of the current time. It is the total number of seconds elapsed from January 1, 1970, 00:00:00 UTC till the current time.
b. Calculate the Unix `EndTimestamp` for the signature to expire according to `StartTimestamp` and the expected validity period of the signature.
c. Generate `KeyTime` by splicing the two timestamps above in `StartTimestamp;EndTimestamp` format.

3. Construct a policy

A policy is a text in JSON format. A typical policy is as follows:

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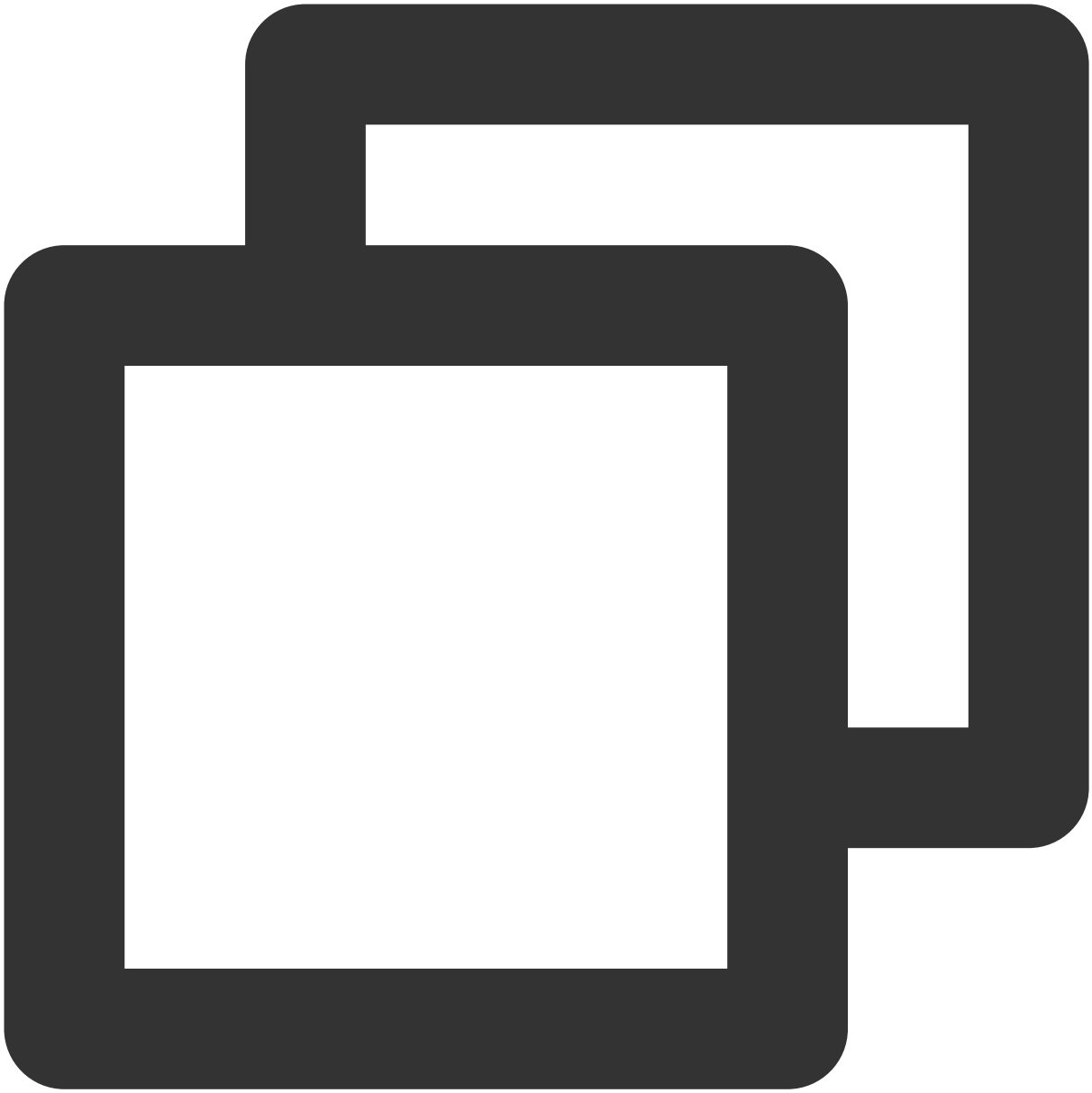

```
{
    "expiration": "2019-08-30T09:38:12.414Z",
    "conditions": [
        { "acl": "default" },
        { "bucket": "examplebucket-1250000000" },
        [ "starts-with", "$key", "folder/subfolder/" ],
        [ "starts-with", "$Content-Type", "image/" ],
        [ "starts-with", "$success_action_redirect", "https://my.website/" ],
        [ "eq", "$x-cos-server-side-encryption", "AES256" ],
        { "q-sign-algorithm": "sha1" },
        { "q-ak": "AKIDQjz3ltompVjBni5LitkWHFlFpwkn9U5q" },
```

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```
        { "q-sign-time": "1567150692;1567157892" }
    ]
}
```

On the **Stream Interruption Records** page:

`expiration` : The policy's expiration time, which is a string in ISO 8601 format.

`conditions` : An array of conditions for the policy. The conditions are described below.

Type	Description
Exact Match	Uses `{" key ":" value "}` or `[" eq "," $ key "," value "]` , where `key` is a limited form field and `value` is a limited value.
Prefix Match	Uses `[ "starts-with", "$key", "value" ]` , where `key` is a limited form field and `value` is a limited prefix that can be empty.
Range Match	Uses `[ "content-length-range", minNum, maxNum ]` to limit the file size to be within `minNum` and `maxNum` .

Form fields that can be limited are as follows:

Field	Description	Match Type	Required
acl	ACL attribute of the object	Exact/Prefix	No
bucket	Bucket for upload	Exact	No
key	Object key. If you use the `${filename}` wildcard in the object key during upload, the object key will be processed to the final object key before the policy is verified. Therefore, you should use prefix match in the policy and `${filename}` should not appear.	Exact/Prefix	No
content-length-range	Range of the file length	Range	No
Cache-Control, Content-Type, Content-Disposition, Content-Encoding, Expires	Headers defined in RFC 2616, which will be returned as response headers when the object is downloaded.	Exact/Prefix	No
success_action_redirect	Redirection target URL when the upload succeeds	Exact/Prefix	No
success_action_status	HTTP status code returned when the upload succeeds	Exact	No
x-cos-meta-*	User-defined metadata headers	Exact/Prefix	No

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x-cos-*	Other COS-related form fields described in this document, such as ACL- or SSE-related fields	Exact	No
q-sign-algorithm	Signature hash algorithm. Fixed at `sha1`	Exact	Yes
q-ak	`SecretId` mentioned above	Exact	Yes
q-sign-time	`KeyTime` generated above	Exact	Yes

Note:

Except for `bucket`, fields that are used for limitation in the policy must be used in the form fields. For example, if `{ "acl": "default" }` is used, `acl` must be used and set to `default` in the form.

For security reasons, we recommend you use all limitable form fields.

4. Generate SignKey

Use HMAC-SHA1 with `SecretKey` as the key and `KeyTime` as the message to calculate the message digest (hash value, lowercase hexadecimal), that is, the `SignKey` (e.g., `39acc8c9f34ba5b19bce4e965b370cd3f62d2fba`).

5. Generate StringToSign

Use SHA1 with the policy text constructed above to calculate the message digest (hash value, lowercase hexadecimal), that is, the `StringToSign` (e.g., `d5d903b8360468bc81c1311f134989bc8c8b5b89`).

6. Generate Signature

Use HMAC-SHA1 with `SignKey` (string, not binary) as the key and `StringToSign` (string, not binary) as the message to calculate the message digest (hash value, lowercase hexadecimal), that is, the `Signature` (e.g., `7758dc9a832e9d301dca704cacbf9d9f8172fdef`).

7. Attach the signature to the form

Attach the policy and signature-related information above to the form as described in the following table:

Parameter	Description	Type	Required
x-cos-security-token	Security token when a temporary security token is used. For more information, see Temporary security credentials.	string	No (Required when a temp key is used)
policy	Base64-encoded policy	string	Yes
q-sign-algorithm	Signature hash algorithm. Fixed at `sha1`	string	Yes

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q-ak	`SecretId` mentioned above	string	Yes
q-key-time	`KeyTime` generated above	string	Yes
q-signature	`Signature` generated above	string	Yes

Note:

Signature form fields should be placed before the `file` form field.

Signature protection use cases

Preparations

Log in to the CAM console and go to the Manage API Key page to obtain your `APPID` , `SecretId` , and `SecretKey` . Below is an example:

APPID	SecretId	SecretKey
1250000000	AKIDQjz3ltompVjBni5LitkWHFlFpwkn9U5q	BQYIM75p8x0iWVFSIgqEKwFprpRSVHlz

Constructing a policy

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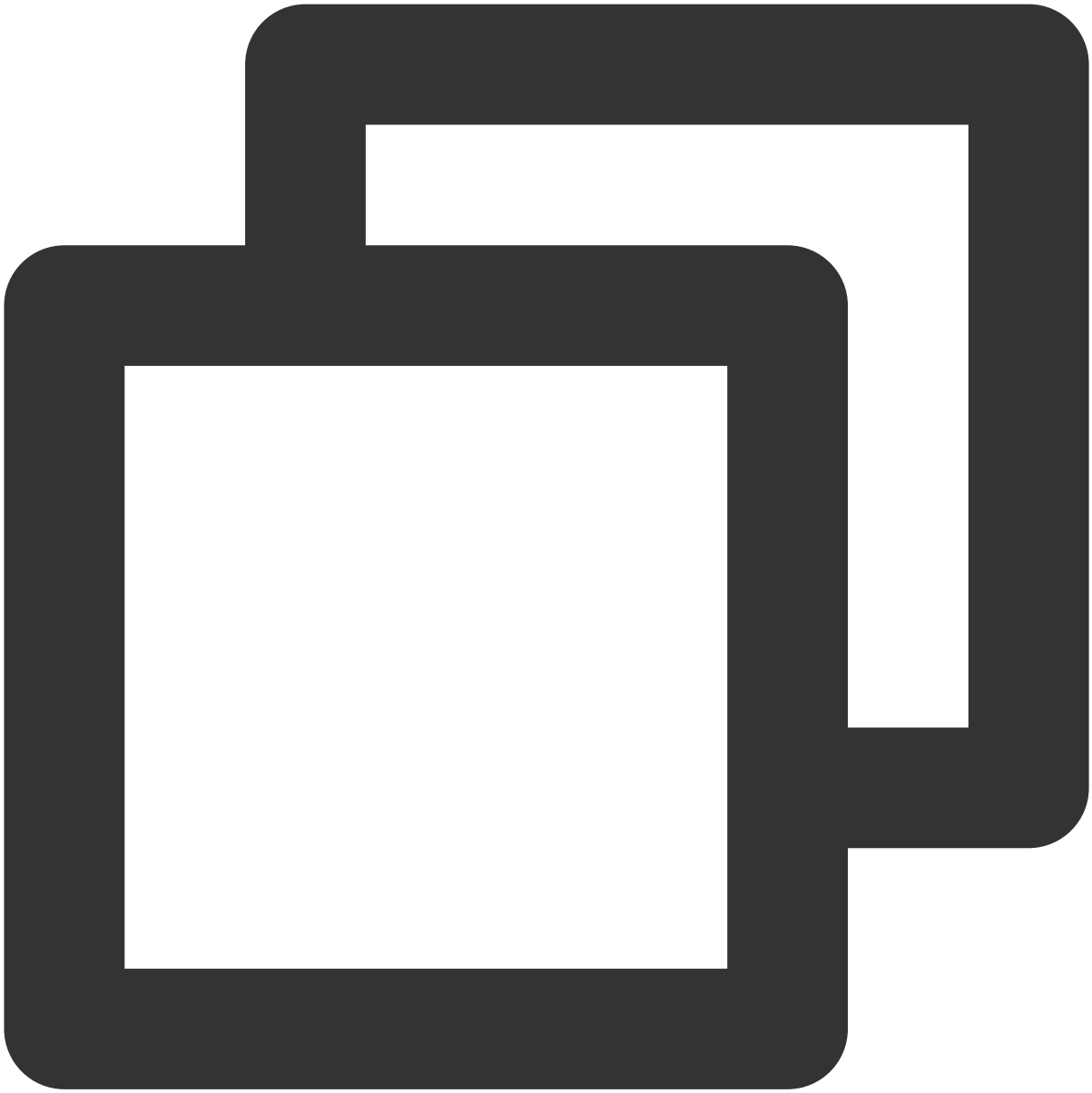

```
{
    "expiration": "2019-08-30T09:38:12.414Z",
    "conditions": [
        { "acl": "default" },
        { "bucket": "examplebucket-1250000000" },
        [ "starts-with", "$key", "folder/subfolder/" ],
        [ "starts-with", "$Content-Type", "image/" ],
        [ "starts-with", "$success_action_redirect", "https://my.website/" ],
        [ "eq", "$x-cos-server-side-encryption", "AES256" ],
        { "q-sign-algorithm": "sha1" },
        { "q-ak": "AKIDQjz3ltompVjBni5LitkWHFlFpwkn9U5q" },
```

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```
        { "q-sign-time": "1567150692;1567157892" }
    ]
}
```

Intermediate variables

KeyTime = `1567150692;1567157892`

SignKey = `39acc8c9f34ba5b19bce4e965b370cd3f62d2fba`

StringToSign = `d5d903b8360468bc81c1311f134989bc8c8b5b89`

Signature = `7758dc9a832e9d301dca704cacbf9d9f8172fdef`

Signature form fields

policy =

`ewogICAgImV4cGlyYXRpb24iOiAiMjAxOS0wOC0zMFQwOTozODoxMi40MTRaIiwKICAgICJjb25kaXRpb25zIjogWwogICAgICAgIHsgImFjbCI6ICJkZWZhdWx0IiB9LAogICAgICAgIHsgImJ1Y2tldCI6ICJleGFtcGxlYnVja2V0LTEyNTAwMDAwMDAiIH0sCiAgICAgICAgWyAic3RhcnRzLXdpdGgiLCAiJGtleSIsICJmb2xkZXIvc3ViZm9sZGVyLyIgXSwKICAgICAgICBbICJzdGFydHMtd2l0aCIsICIkQ29udGVudC1UeXBlIiwgImltYWdlLyIgXSwKICAgICAgICBbICJzdGFydHMtd2l0aCIsICIkc3VjY2Vzc19hY3Rpb25fcmVkaXJlY3QiLCAiaHR0cHM6Ly9teS53ZWJzaXRlLyIgXSwKICAgICAgICBbICJlcSIsICIkeC1jb3Mtc2VydmVyLXNpZGUtZW5jcnlwdGlvbiIsICJBRVMyNTYiIF0sCiAgICAgICAgeyAicS1zaWduLWFsZ29yaXRobSI6ICJzaGExIiB9LAogICAgICAgIHsgInEtYWsiOiAiQUtJRFFqejNsdG9tcFZqQm5pNUxpdGtXSEZsRnB3a245VTVxIiB9LAogICAgICAgIHsgInEtc2lnbi10aW1lIjogIjE1NjcxNTA2OTI7MTU2NzE1Nzg5MiIgfQogICAgXQp9`

q-sign-algorithm = `sha1`

q-ak = `AKIDQjz3ltompVjBni5LitkWHFlFpwkn9U5q`

q-key-time = `1567150692;1567157892`

q-signature = `7758dc9a832e9d301dca704cacbf9d9f8172fdef`

Response

Response headers

In addition to common response headers, this API also returns the following response headers. For more information about common response headers, see Common Response Headers.

Header	Description	Type
Location	If `success_action_redirect` is used, the value is the URL specified in `success_action_redirect` as well as the bucket, key, and ETag parameters (see Example 8). If `success_action_redirect` is not used, the value is the full access URL of the object (see Example 1).	string

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Versioning-Related Headers

If the object is uploaded to a versioning-enabled bucket, the following response headers will be returned:

Header	Description	Type
x-cos-version-id	Version ID of the object	string

SSE-related headers

If server-side encryption is used during object upload, this API will return headers used specifically for server-side encryption. For more information, see Server-Side Encryption Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Samples

Sample 1: Simple use case (with versioning disabled)

Request

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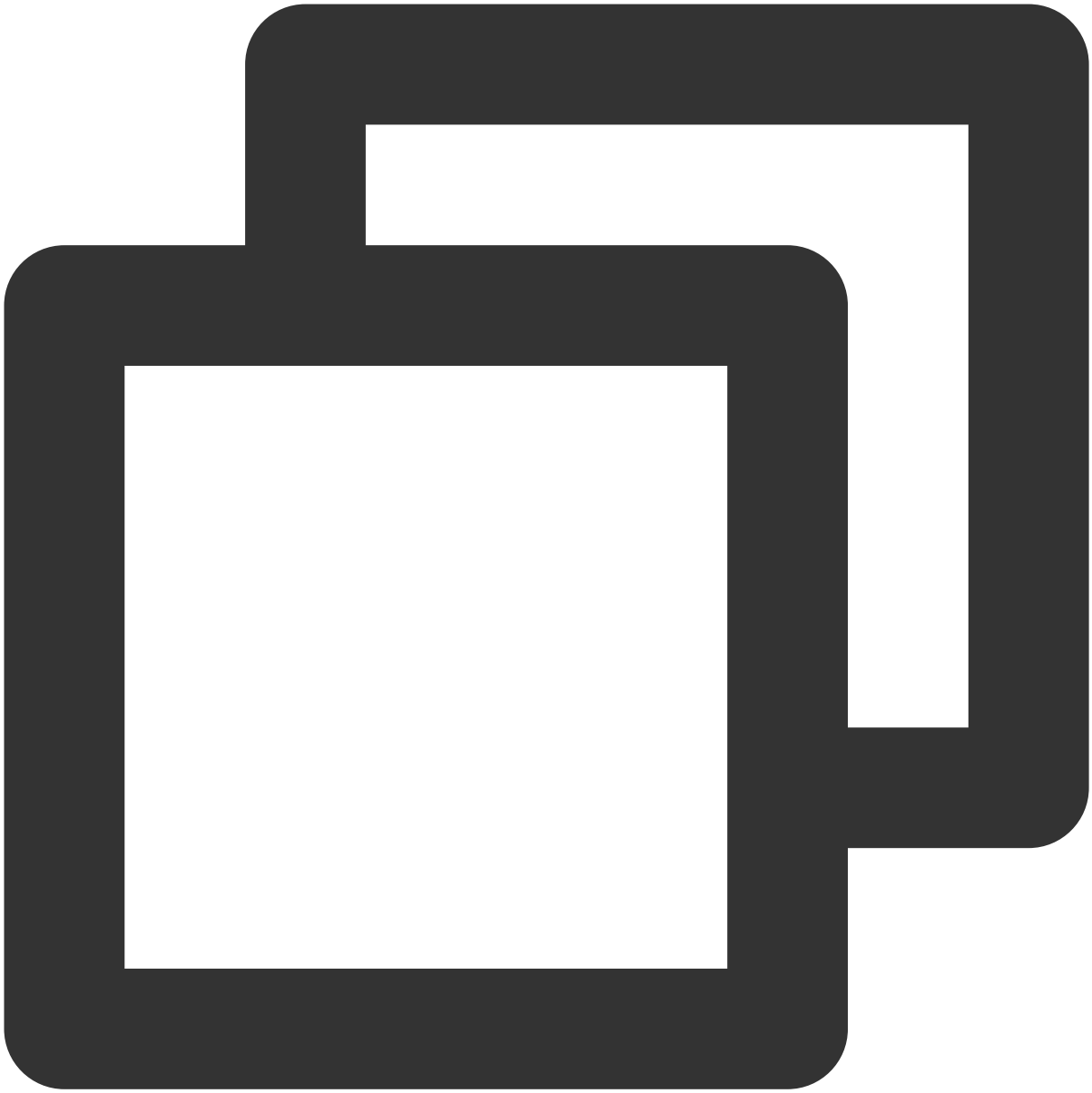

```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 07:39:34 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryZBPbaoYE2gqeB21N
Content-Length: 1119
Connection: close

------WebKitFormBoundaryZBPbaoYE2gqeB21N
Content-Disposition: form-data; name="key"

exampleobject
```

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```
------WebKitFormBoundaryZBPbaoYE2gqeB21N
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbeyJxLXNpZ24tYWxnb3JpdGhtIjoic2hhMSJ9LHsicS1hayI6IkFLSUQ4QTBmQlZ
------WebKitFormBoundaryZBPbaoYE2gqeB21N
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundaryZBPbaoYE2gqeB21N
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundaryZBPbaoYE2gqeB21N
Content-Disposition: form-data; name="q-key-time"

1567064374;1567071574
------WebKitFormBoundaryZBPbaoYE2gqeB21N
Content-Disposition: form-data; name="q-signature"

74ba120129a13d8f0e19479fbdc01bca3bca****
------WebKitFormBoundaryZBPbaoYE2gqeB21N
Content-Disposition: form-data; name="file"; filename="example.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundaryZBPbaoYE2gqeB21N--
```

Response

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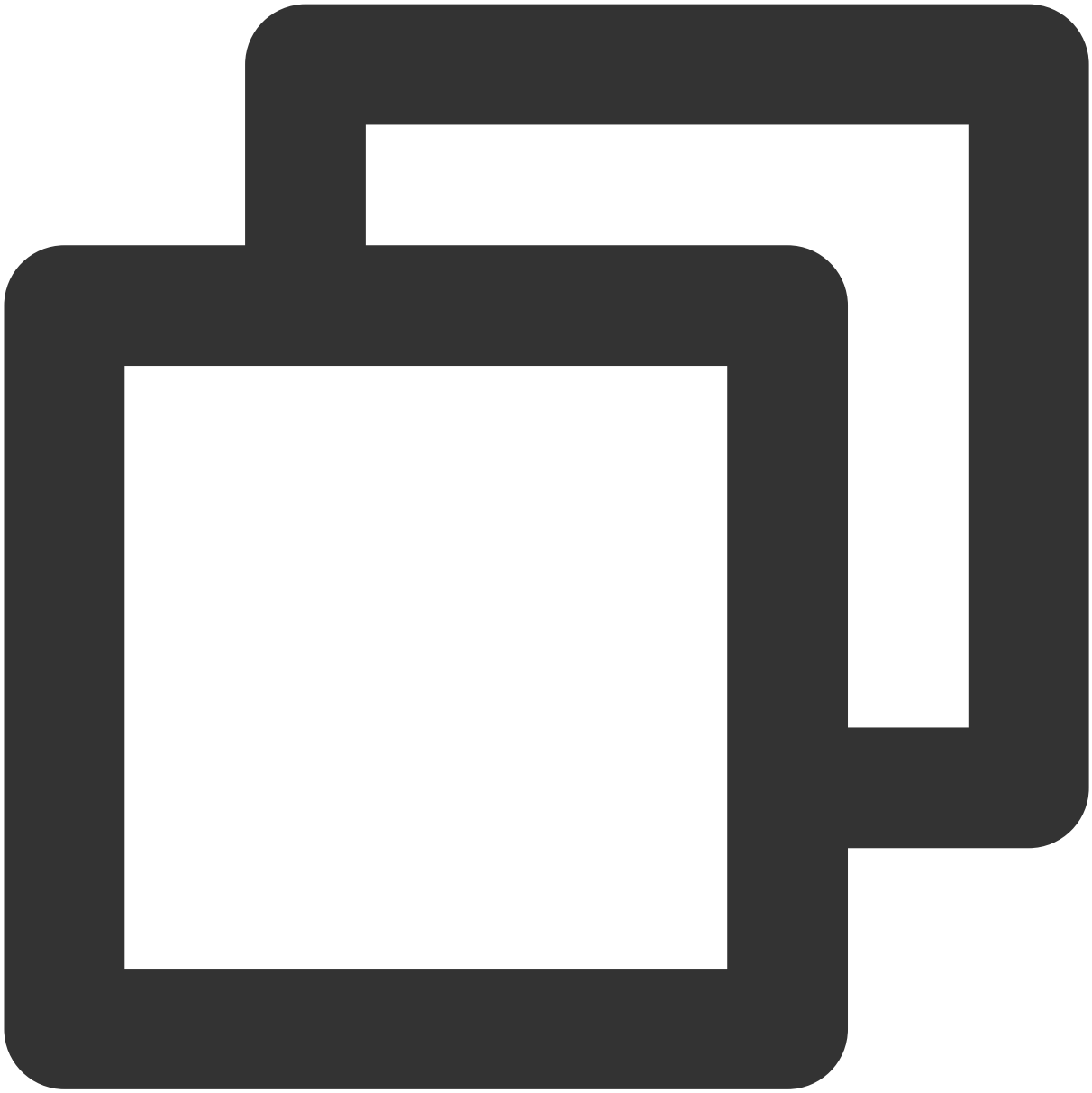

```
HTTP/1.1 204
Content-Length: 0
Connection: close
Date: Thu, 29 Aug 2019 07:39:34 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Location: http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject
Server: tencent-cos
x-cos-request-id: NWQ2NzgxMzZfMmViMDJhMDlfY2NjOF84NGQz****
```

Sample 2: Specifying metadata and ACL using form fields

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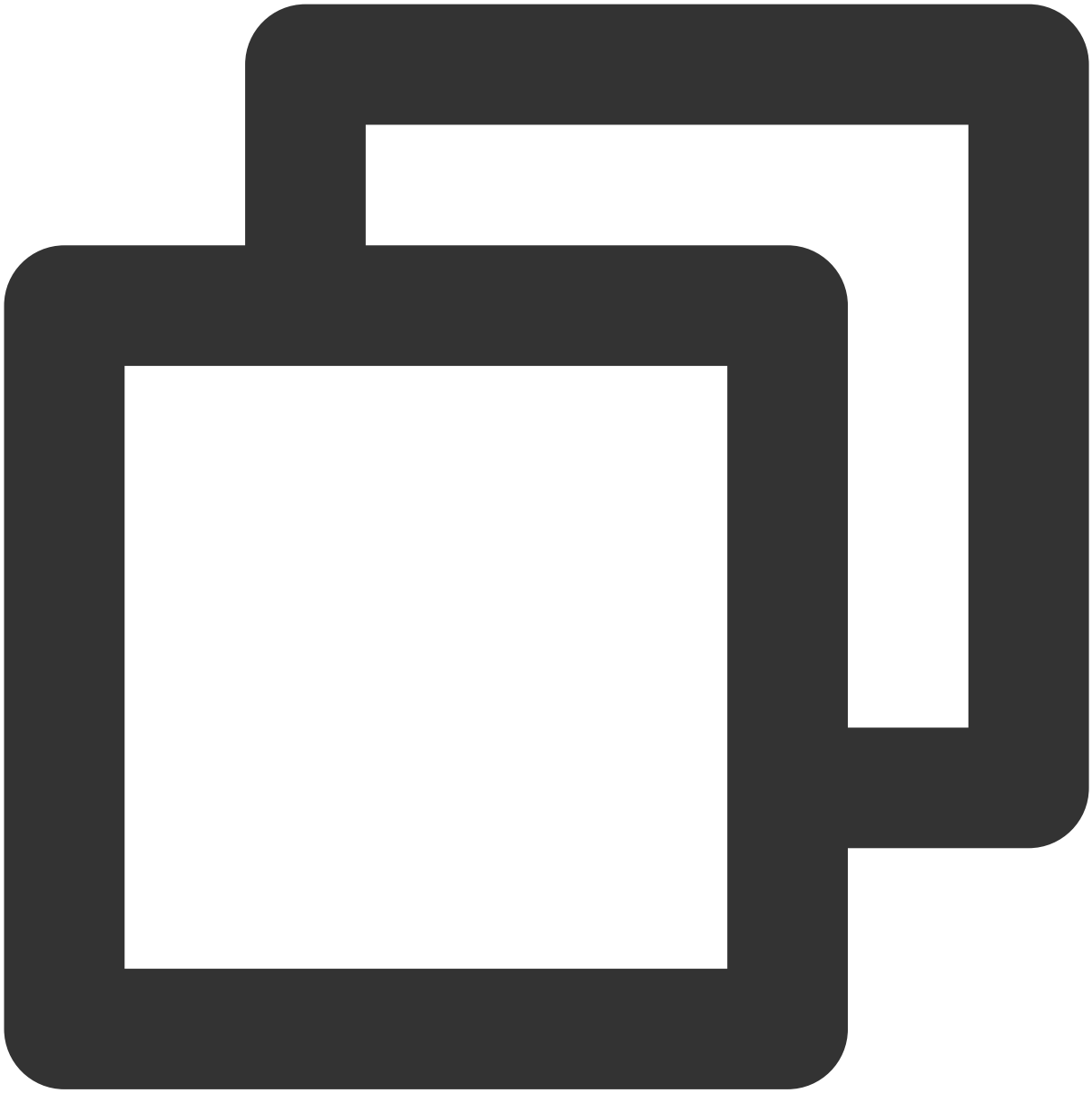
Request



```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 07:39:34 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Length: 2146
Connection: close

------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="key"
```

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```
exampleobject
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="acl"

public-read
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="Cache-Control"

max-age=86400
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="Content-Disposition"

attachment; filename=example.jpg
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="Content-Type"

image/jpeg
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="x-cos-meta-example-field"

example-value
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="Content-MD5"

7o3pGNBWQBRbGPcPTDqmAg==
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbeyJhY2wiOiJwdWJsaWMtcmVhZCJ9LHsiYnVja2V0IjoiZXhhbXBsZWJ1Y2tldC0
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="q-key-time"

1567064374;1567071574
------WebKitFormBoundary9JtEhEGHSdx8Patg
Content-Disposition: form-data; name="q-signature"

228a89b5f7b8fce7fdfa4a3b36cfb5a5eafb****
------WebKitFormBoundary9JtEhEGHSdx8Patg
```

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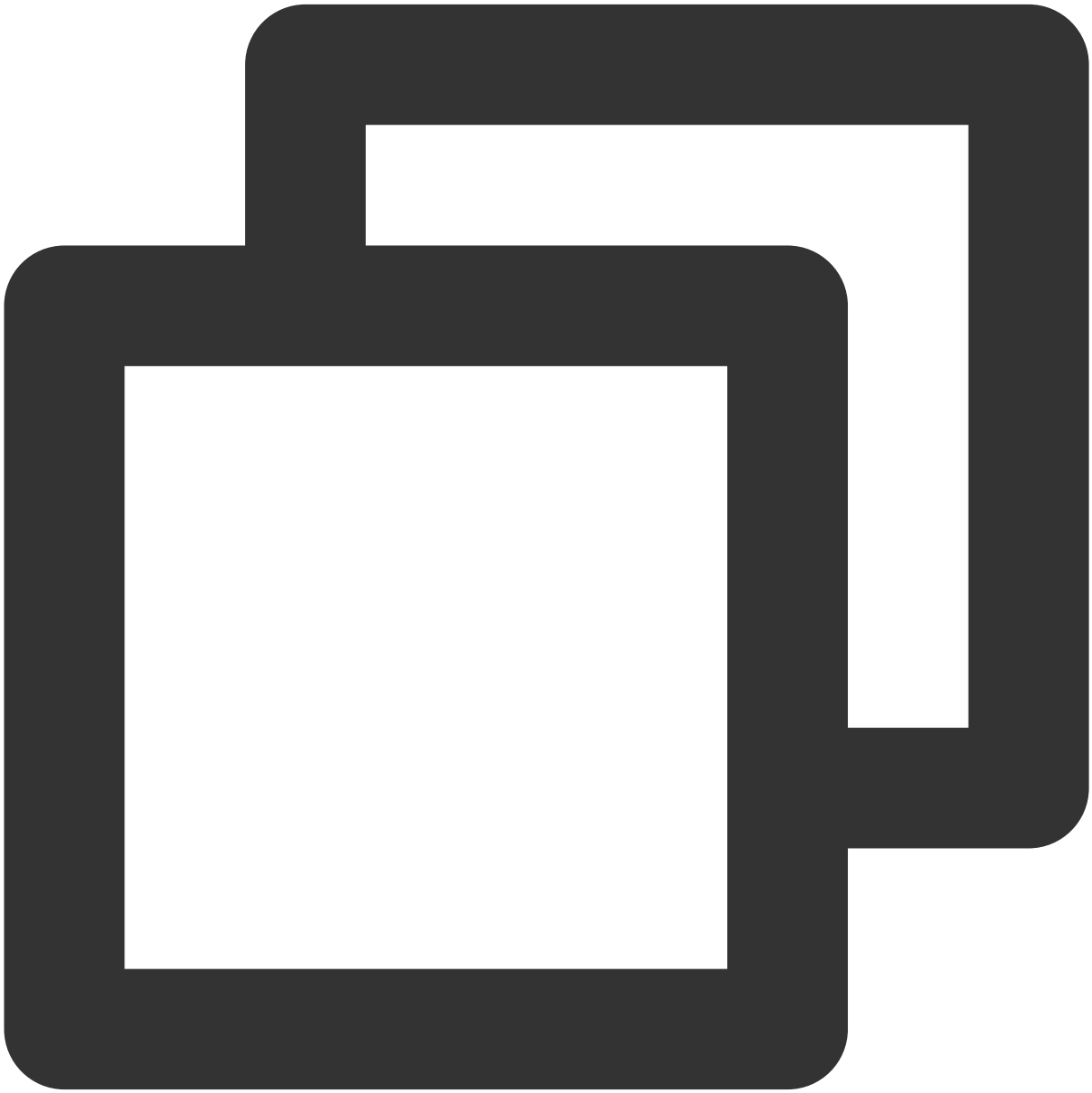
```
Content-Disposition: form-data; name="file"; filename="example.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundary9JtEhEGHSdx8Patg--
```

Response



```
HTTP/1.1 204
Content-Length: 0
```

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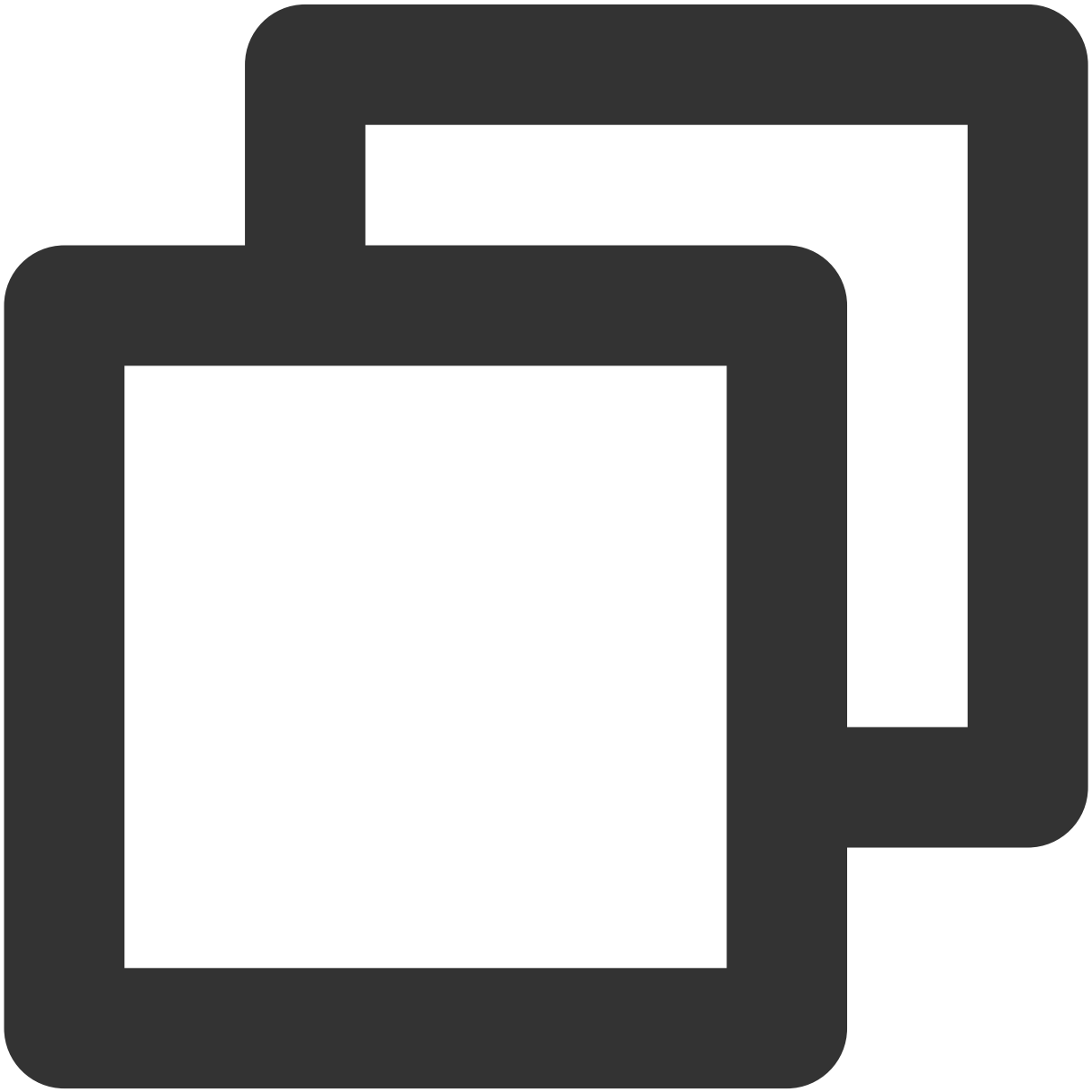
```
Connection: close
Date: Thu, 29 Aug 2019 07:39:35 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Location: http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject
Server: tencent-cos
x-cos-request-id: NWQ2NzgxMzdfM2NhZjJhMDlfMTQzYV84Nzhh****
```

Sample 3: Using server-side encryption SSE-COS

Request



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```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 07:39:35 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Length: 1296
Connection: close

------WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Disposition: form-data; name="key"

exampleobject
------WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Disposition: form-data; name="x-cos-server-side-encryption"

AES256
------WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbeyJ4LWNvcy1zZXJ2ZXItc2lkZS1lbmNyeXB0aW9uIjoiQUVTMjU2In0seyJxLXN
------WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Disposition: form-data; name="q-key-time"

1567064375;1567071575
------WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Disposition: form-data; name="q-signature"

65f3f8864bb1b271e1235d1ec7d1cb508ffa****
------WebKitFormBoundaryBVaHvBJQJnQrAxKY
Content-Disposition: form-data; name="file"; filename="example.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundaryBVaHvBJQJnQrAxKY--
```

Response

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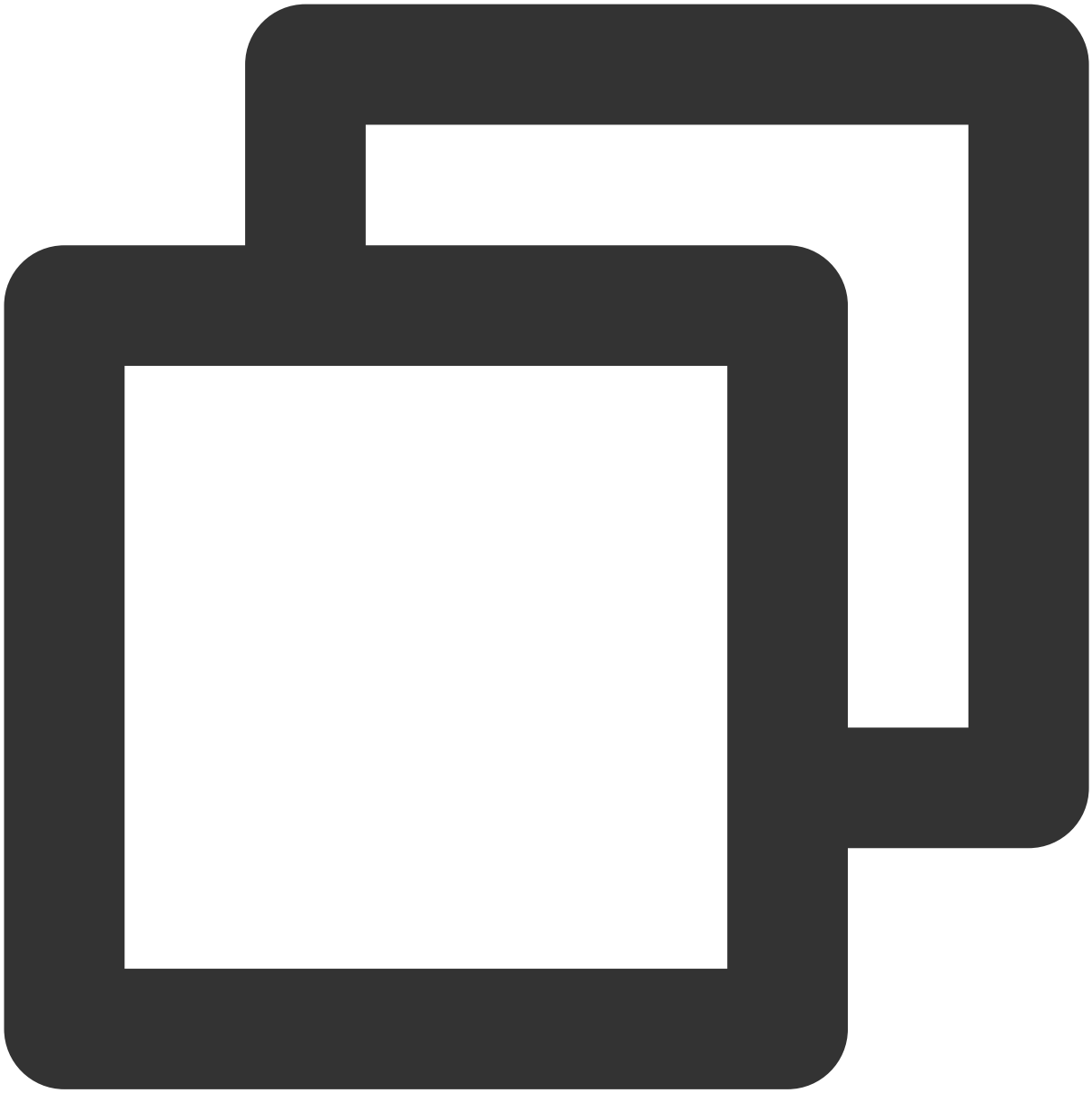

```
HTTP/1.1 204
Content-Length: 0
Connection: close
Date: Thu, 29 Aug 2019 07:39:35 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Location: http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject
Server: tencent-cos
x-cos-request-id: NWQ2NzgxMzdfMTljMDJhMDlfNTg4ZF84Njgx****
x-cos-server-side-encryption: AES256
```

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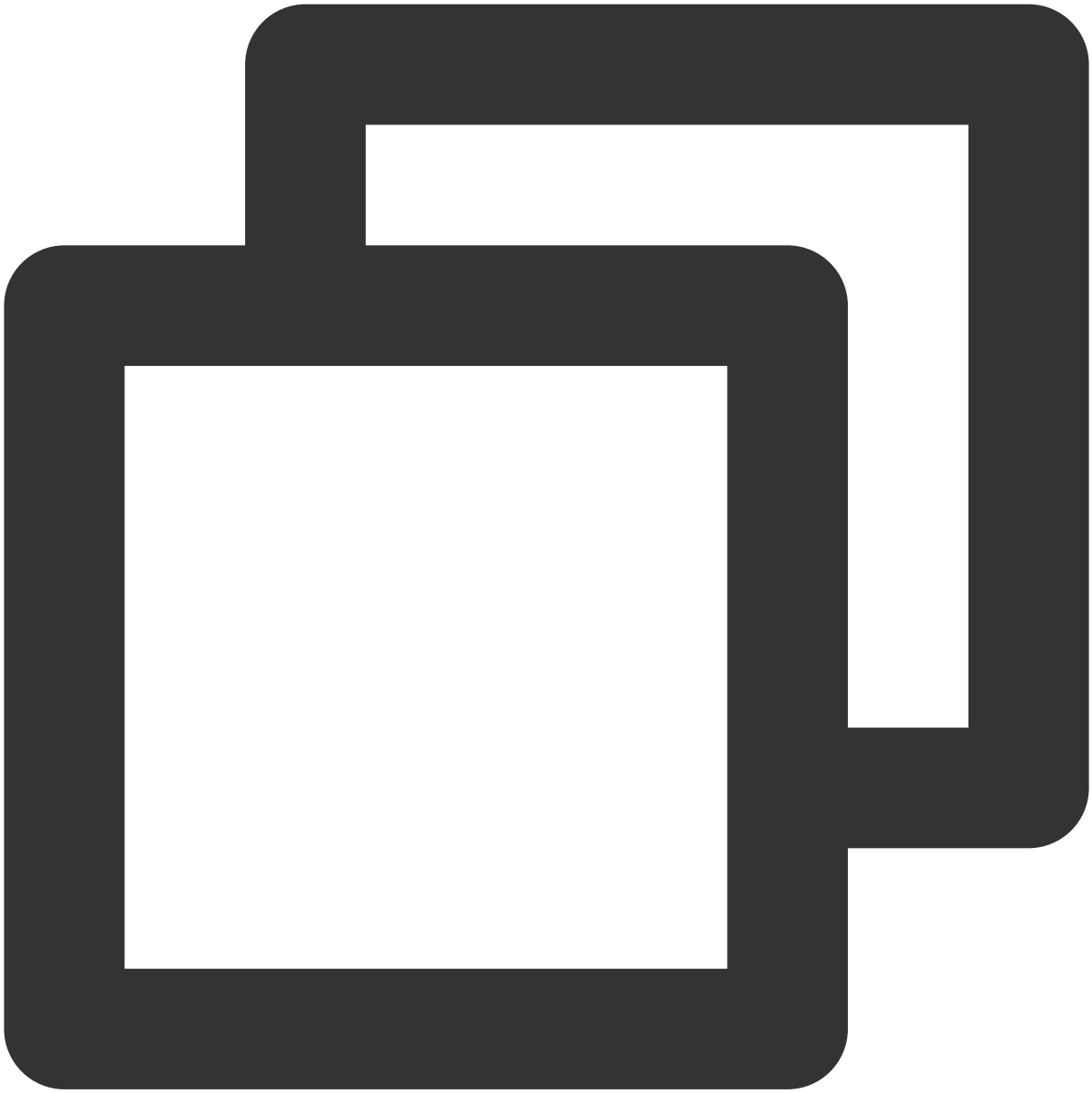
Sample 4: Using server-side encryption SSE-C

Request



```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 07:39:36 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Length: 1667
Connection: close
```

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```
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="key"

exampleobject
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="x-cos-server-side-encryption-customer-algorit

AES256
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="x-cos-server-side-encryption-customer-key"

MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNERUY=
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="x-cos-server-side-encryption-customer-key-MD5

U5L61r7jcwdNvT7frmUG8g==
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbeyJ4LWNvcy1zZXJ2ZXItc2lkZS1lbmNyeXB0aW9uLWN1c3RvbWVyLWFsZ29yaXR
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="q-key-time"

1567064376;1567071576
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="q-signature"

0273a4b4ede39d0e5162758e145ea0c3e9ef****
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb
Content-Disposition: form-data; name="file"; filename="example.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundaryYa6H7Gd4xuhlyfJb--
```

Response

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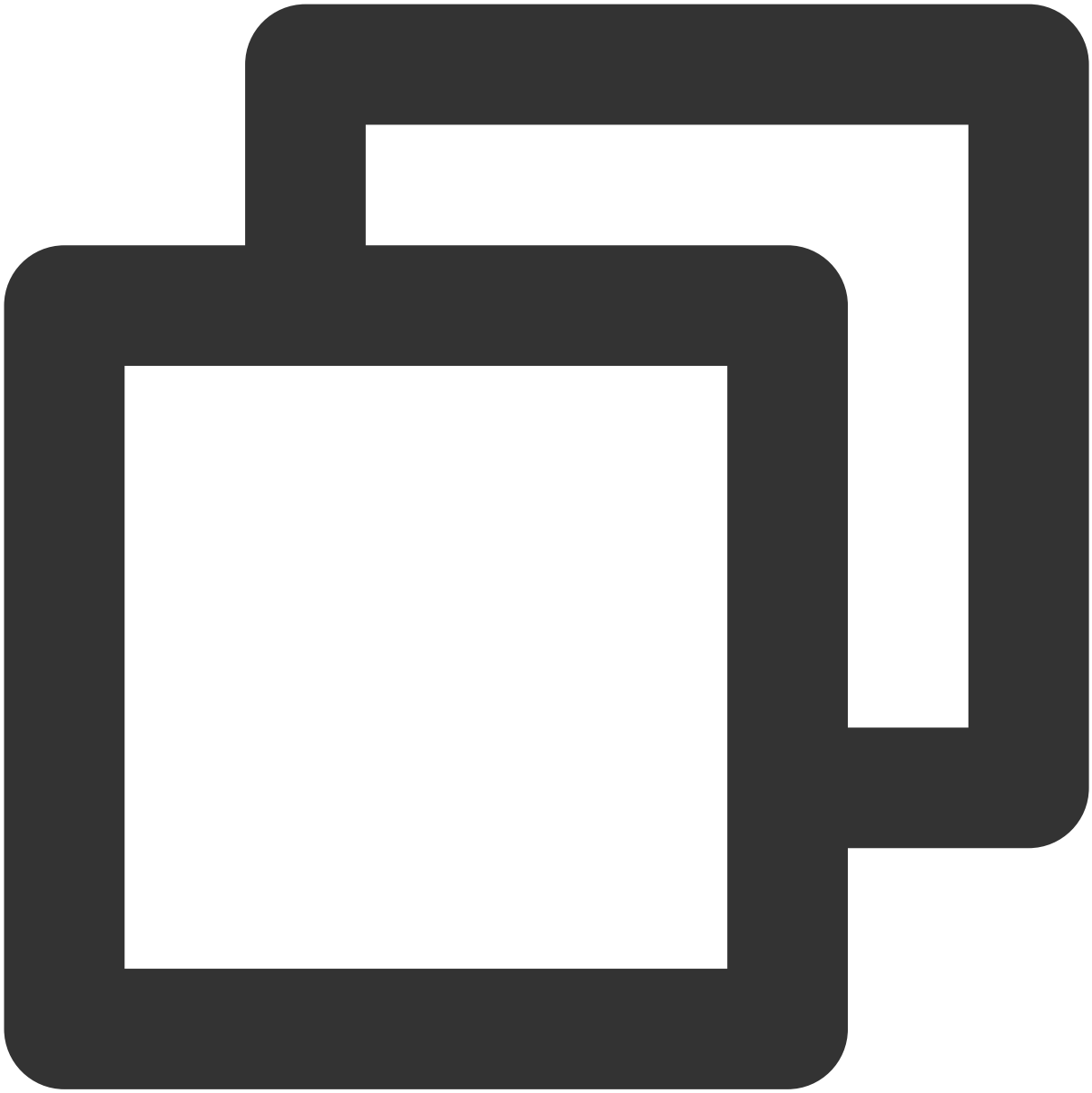

```
HTTP/1.1 204
Content-Length: 0
Connection: close
Date: Thu, 29 Aug 2019 07:39:36 GMT
ETag: "582d9105f71525f3c161984bc005efb5"
Location: http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject
Server: tencent-cos
x-cos-request-id: NWQ2NzgxMzhfMzdiMDJhMDlfNDA4YV84MzQx****
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
```

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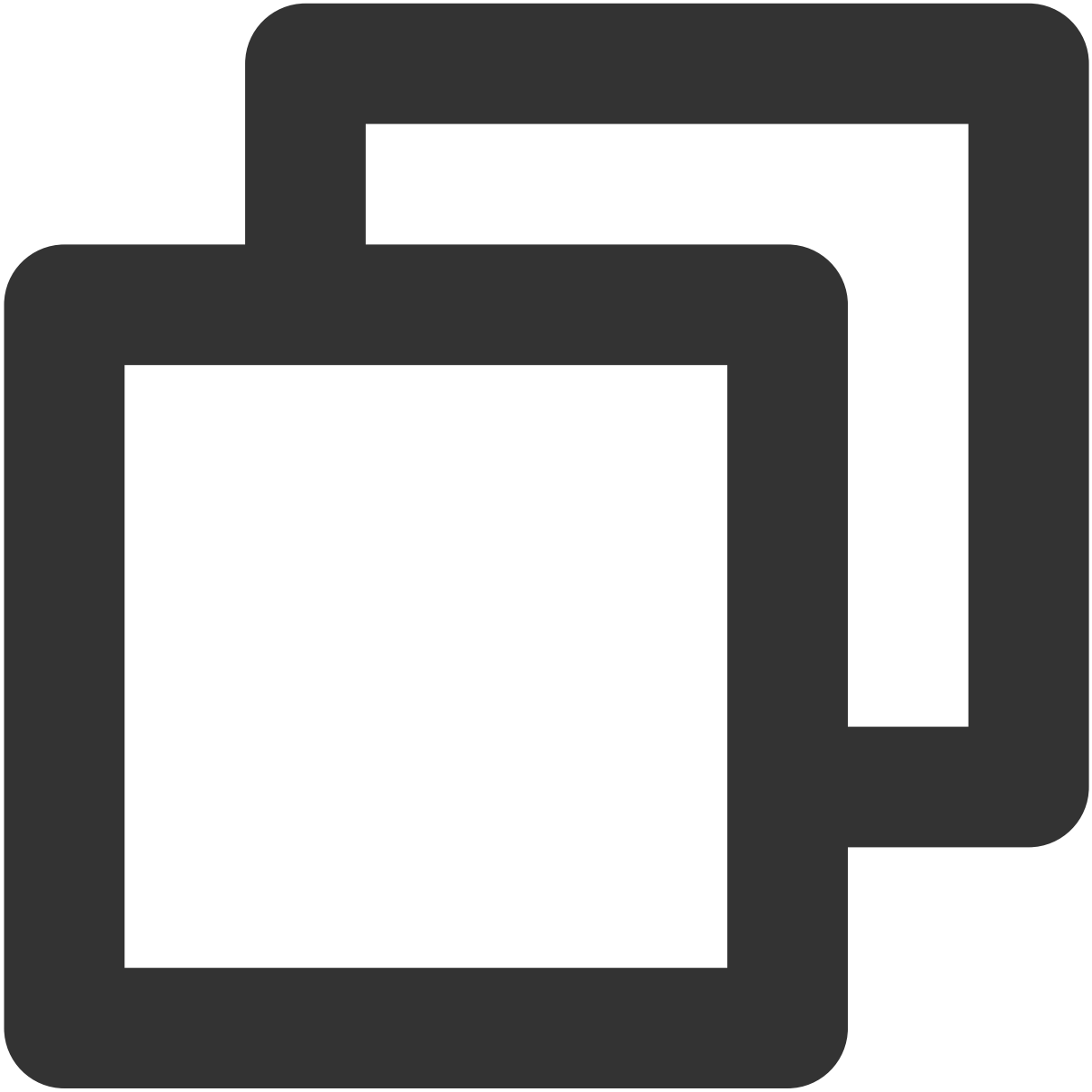
Sample 5: Versioning-enabled

Request



```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 07:40:07 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryJspR3QIUhGJLALwf
Content-Length: 1119
Connection: close
```

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```
------WebKitFormBoundaryJspR3QIUhGJLALwf
Content-Disposition: form-data; name="key"

exampleobject
------WebKitFormBoundaryJspR3QIUhGJLALwf
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbeyJxLXNpZ24tYWxnb3JpdGhtIjoic2hhMSJ9LHsicS1hayI6IkFLSUQ4QTBmQlZ
------WebKitFormBoundaryJspR3QIUhGJLALwf
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundaryJspR3QIUhGJLALwf
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundaryJspR3QIUhGJLALwf
Content-Disposition: form-data; name="q-key-time"

1567064407;1567071607
------WebKitFormBoundaryJspR3QIUhGJLALwf
Content-Disposition: form-data; name="q-signature"

699ad0ce7780eb559b75e88f77e95743d829****
------WebKitFormBoundaryJspR3QIUhGJLALwf
Content-Disposition: form-data; name="file"; filename="example.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundaryJspR3QIUhGJLALwf--
```

Response

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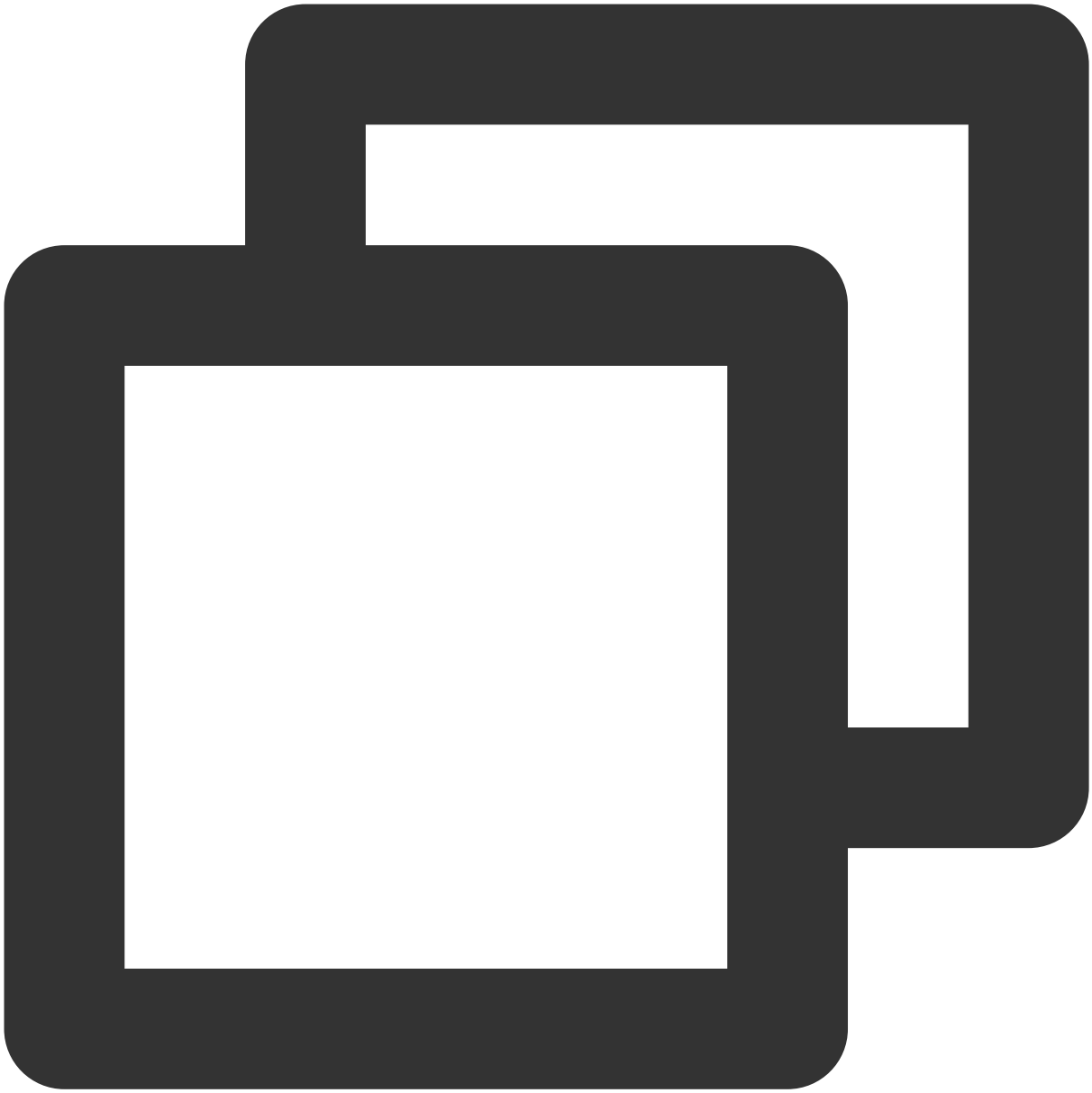

```
HTTP/1.1 204
Content-Length: 0
Connection: close
Date: Thu, 29 Aug 2019 07:40:07 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Location: http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject
Server: tencent-cos
x-cos-request-id: NWQ2NzgxNTdfNzFiNDBiMDlfMmE3ZmJfODQ1****
x-cos-version-id: MTg0NDUxNzcwMDkzMDE3NDQ0MDU
```

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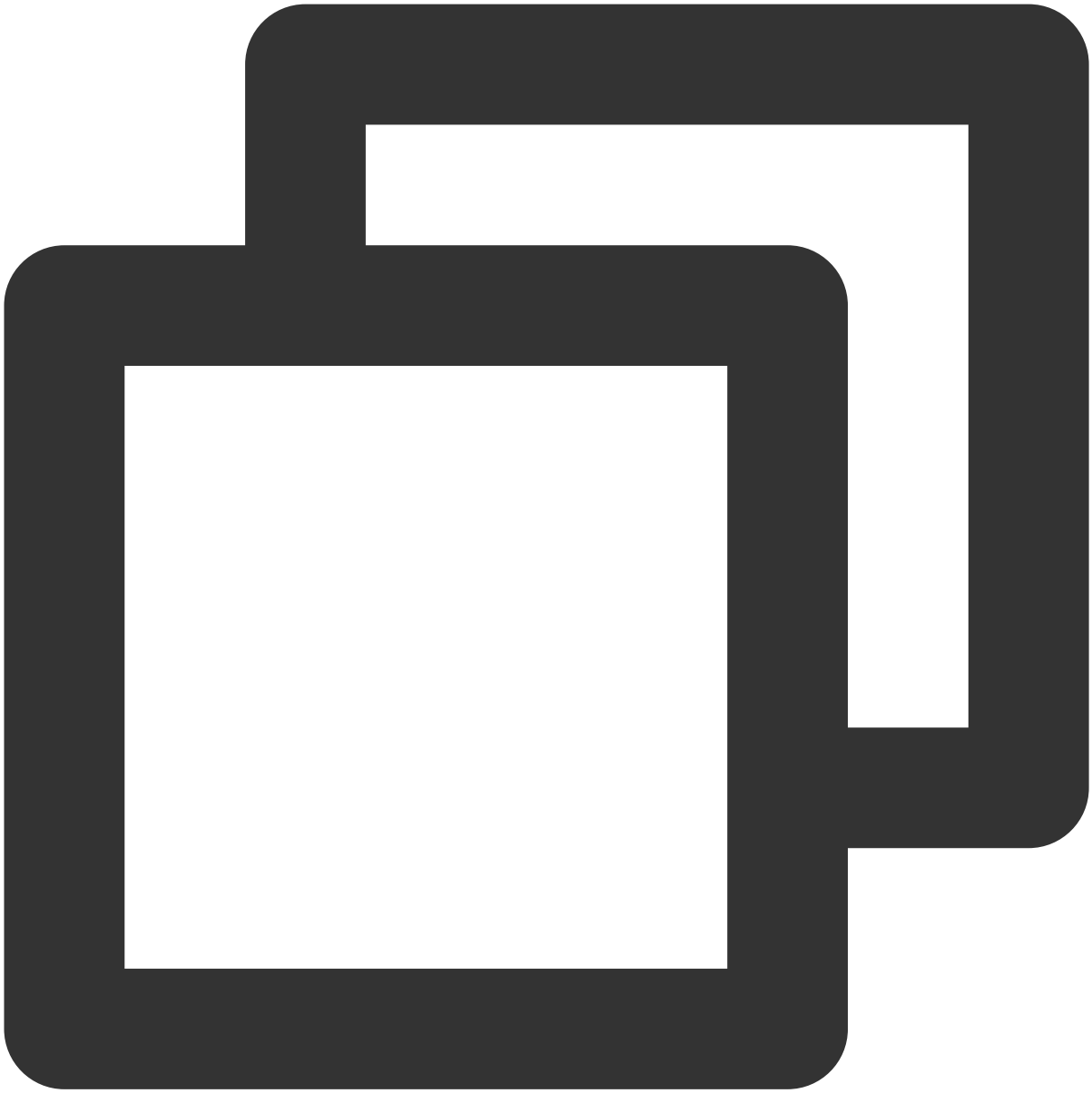
Sample 6: Versioning-suspended

Request



```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 07:40:38 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryX8hd2lxTMzIBk5Li
Content-Length: 1119
Connection: close
```

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```
------WebKitFormBoundaryX8hd2lxTMzIBk5Li
Content-Disposition: form-data; name="key"

exampleobject
------WebKitFormBoundaryX8hd2lxTMzIBk5Li
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbeyJxLXNpZ24tYWxnb3JpdGhtIjoic2hhMSJ9LHsicS1hayI6IkFLSUQ4QTBmQlZ
------WebKitFormBoundaryX8hd2lxTMzIBk5Li
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundaryX8hd2lxTMzIBk5Li
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundaryX8hd2lxTMzIBk5Li
Content-Disposition: form-data; name="q-key-time"

1567064438;1567071638
------WebKitFormBoundaryX8hd2lxTMzIBk5Li
Content-Disposition: form-data; name="q-signature"

bb04222322bfb17f4d1f43833bbbac0a03aa****
------WebKitFormBoundaryX8hd2lxTMzIBk5Li
Content-Disposition: form-data; name="file"; filename="example.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundaryX8hd2lxTMzIBk5Li--
```

Response

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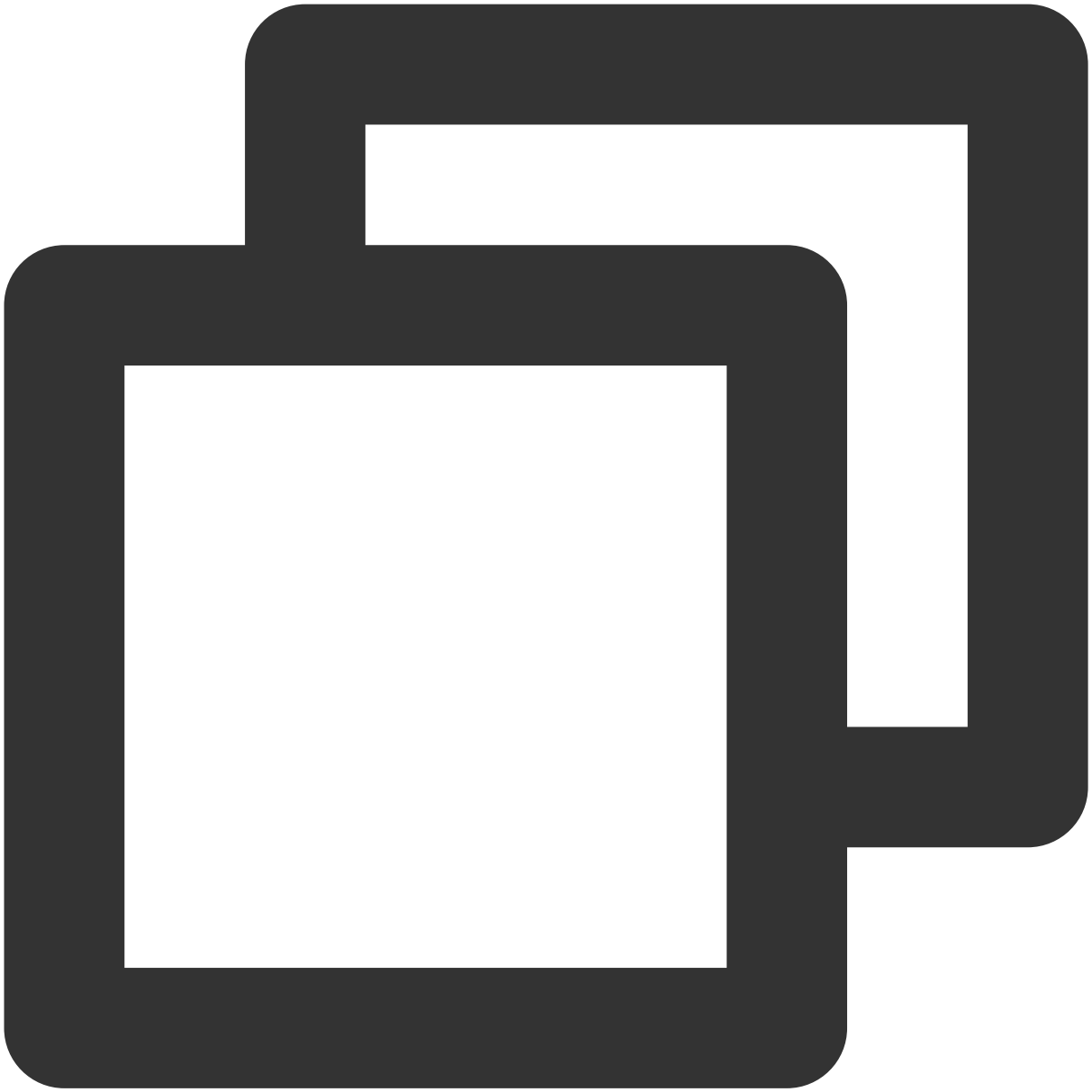

```
HTTP/1.1 204
Content-Length: 0
Connection: close
Date: Thu, 29 Aug 2019 07:40:38 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Location: http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject
Server: tencent-cos
x-cos-request-id: NWQ2NzgxNzZfMjFjOTBiMDlfMWY3YTFfNjY2****
```

Sample 7: Using the `${filename}` wildcard in the object key (`key` form field)

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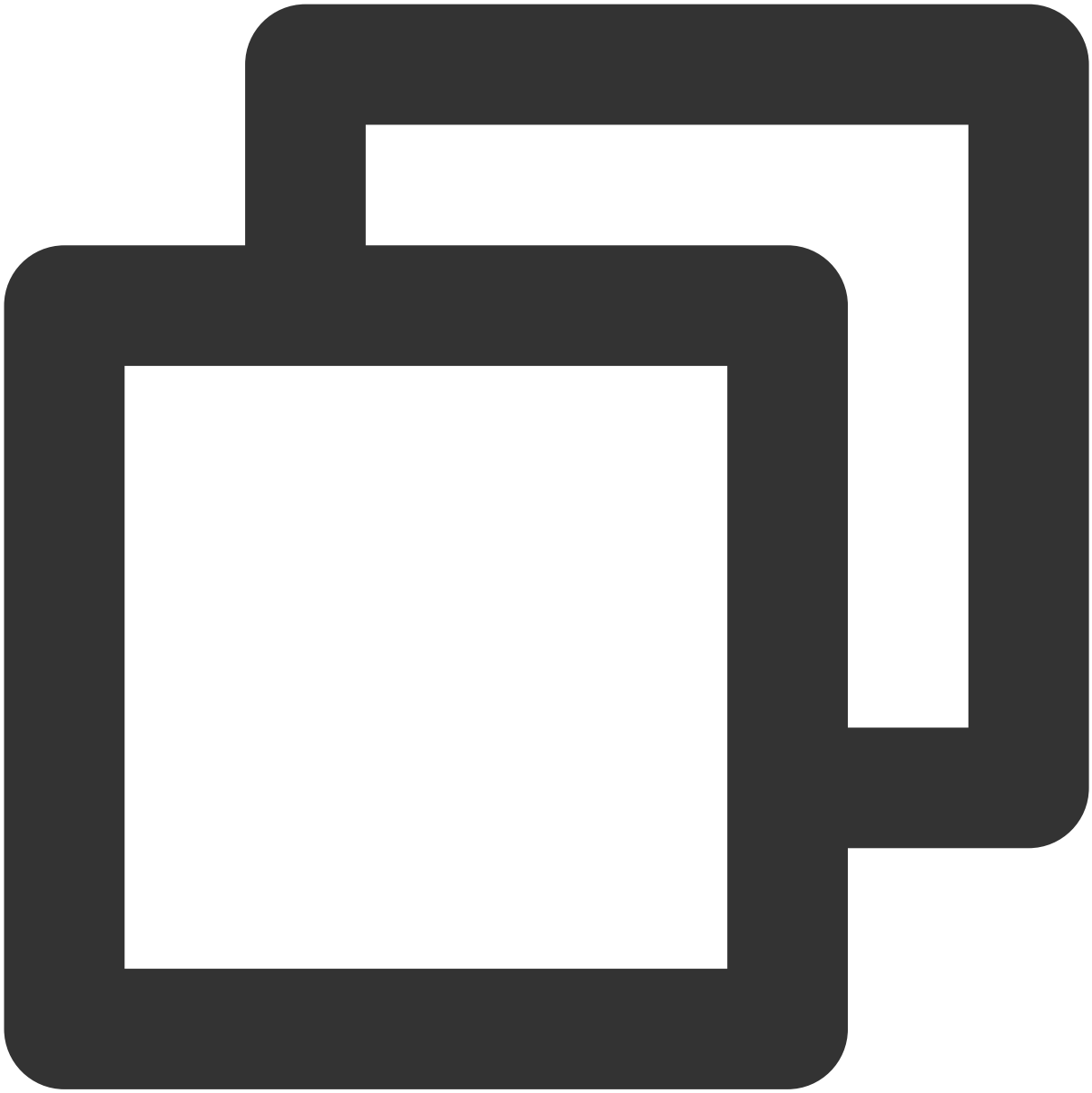
Request



```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 12:35:07 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryHrAMWZO4BNyT0rca
Content-Length: 1188
Connection: close

------WebKitFormBoundaryHrAMWZO4BNyT0rca
Content-Disposition: form-data; name="key"
```

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```
folder/subfolder/${filename}
------WebKitFormBoundaryHrAMWZO4BNyT0rca
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbWyJzdGFydHMtd2l0aCIsIiRrZXkiLCJmb2xkZXIvc3ViZm9sZGVyLyJdLHsicS1
------WebKitFormBoundaryHrAMWZO4BNyT0rca
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundaryHrAMWZO4BNyT0rca
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundaryHrAMWZO4BNyT0rca
Content-Disposition: form-data; name="q-key-time"

1567082107;1567089307
------WebKitFormBoundaryHrAMWZO4BNyT0rca
Content-Disposition: form-data; name="q-signature"

3cc37f8c81e36f57506efa02d0a3b6c9d551****
------WebKitFormBoundaryHrAMWZO4BNyT0rca
Content-Disposition: form-data; name="file"; filename="photo.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundaryHrAMWZO4BNyT0rca--
```

Response

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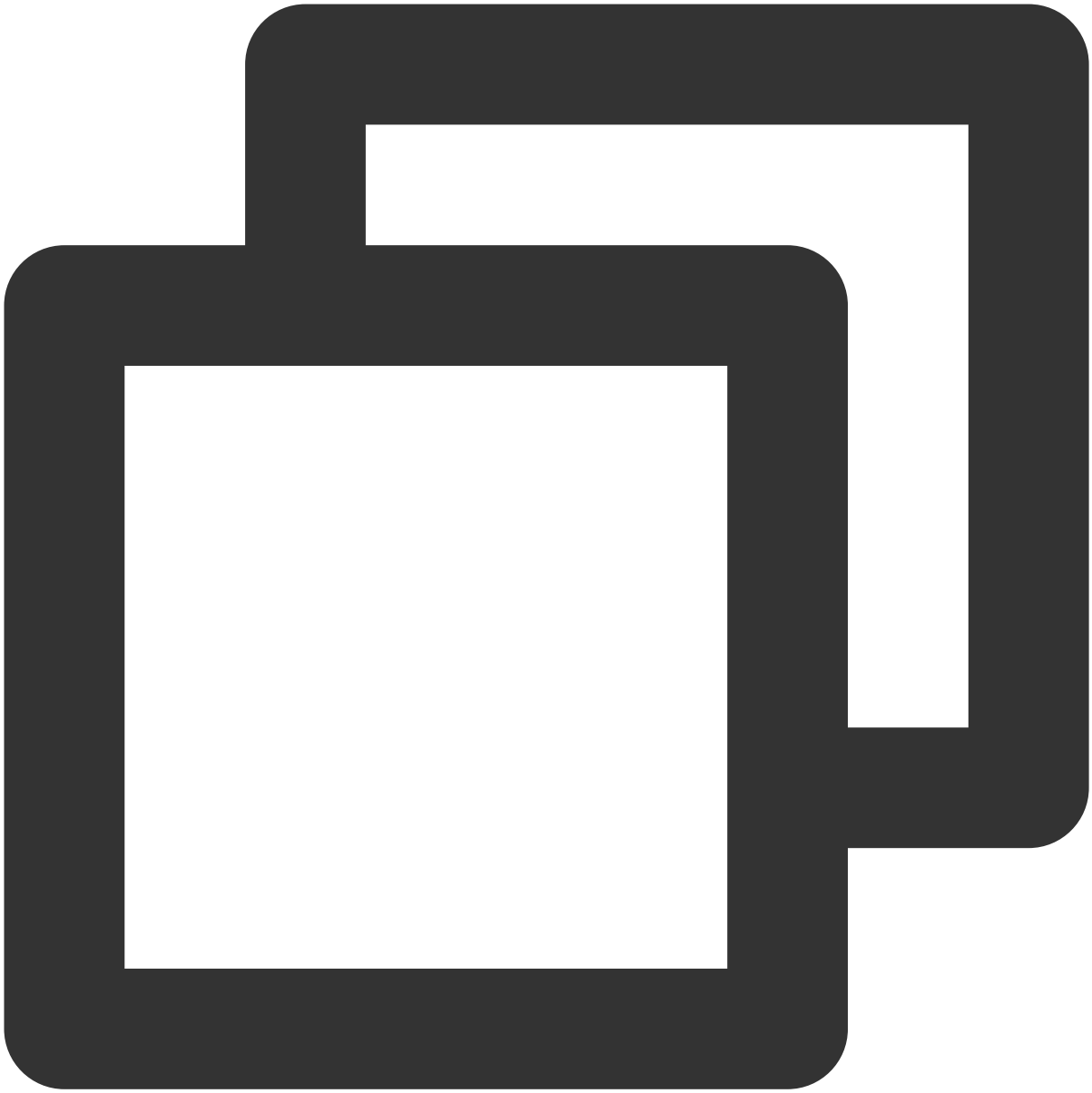

```
HTTP/1.1 204
Content-Length: 0
Connection: close
Date: Thu, 29 Aug 2019 12:35:08 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Location: http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/folder/subfol
Server: tencent-cos
x-cos-request-id: NWQ2N2M2N2NfNWZhZjJhMDlfNmUzMV84OTg4****
```

Sample 8: Specifying the `success_action_redirect` form field

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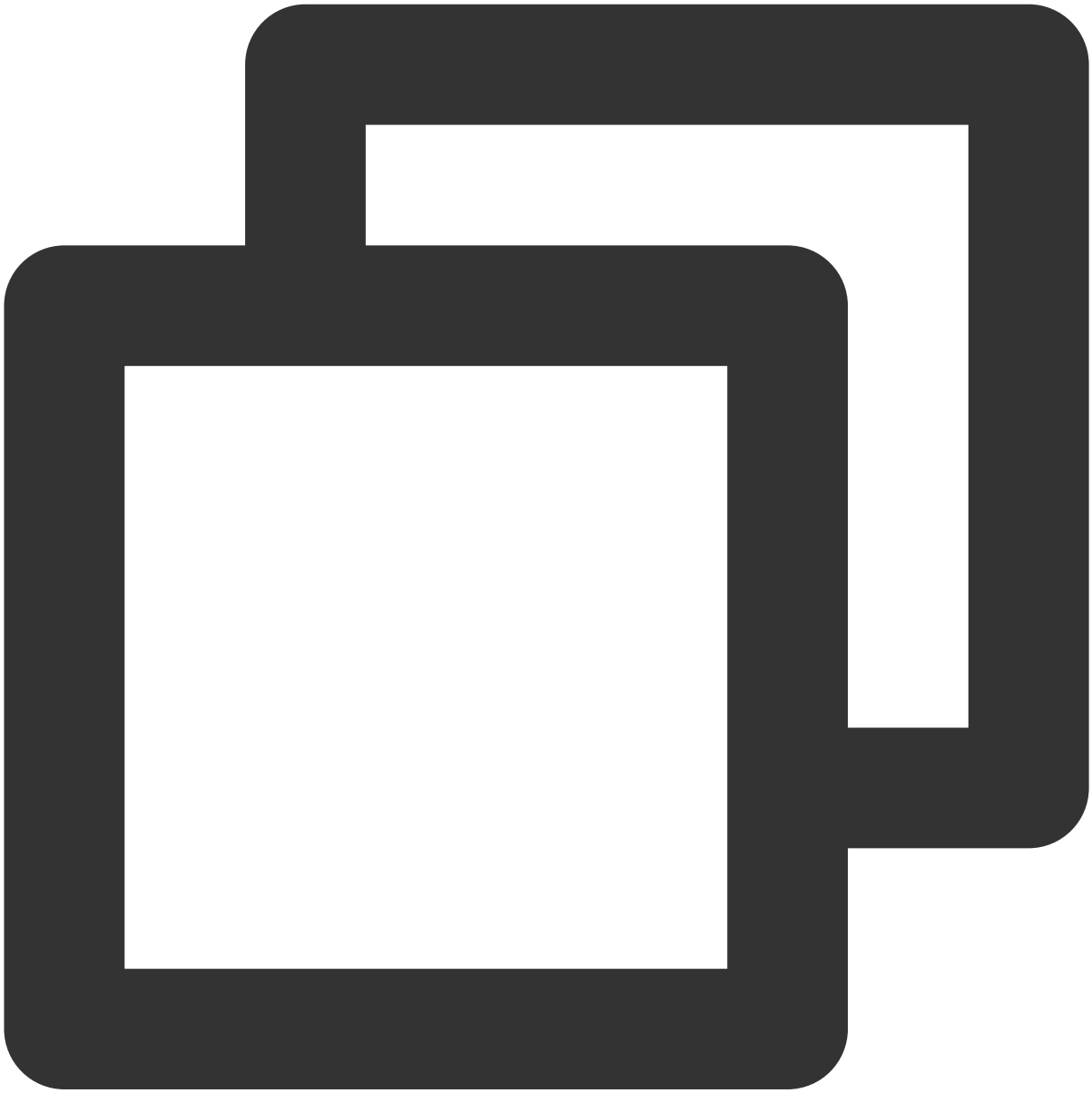
Request



```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 08:02:29 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Length: 1351
Connection: close

------WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Disposition: form-data; name="key"
```

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```
exampleobject
------WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Disposition: form-data; name="success_action_redirect"

https://my.website/upload_success.html
------WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbWyJzdGFydHMtd2l0aCIsIiRzdWNjZXNzX2FjdGlvbl9yZWRpcmVjdCIsImh0dHB
------WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Disposition: form-data; name="q-key-time"

1567065749;1567072949
------WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Disposition: form-data; name="q-signature"

c4a8ae7411687bc3d6ed2ac9b249e87a50b5****
------WebKitFormBoundaryJ0bRH1MwgMq5eu6H
Content-Disposition: form-data; name="file"; filename="example.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundaryJ0bRH1MwgMq5eu6H--
```

Response

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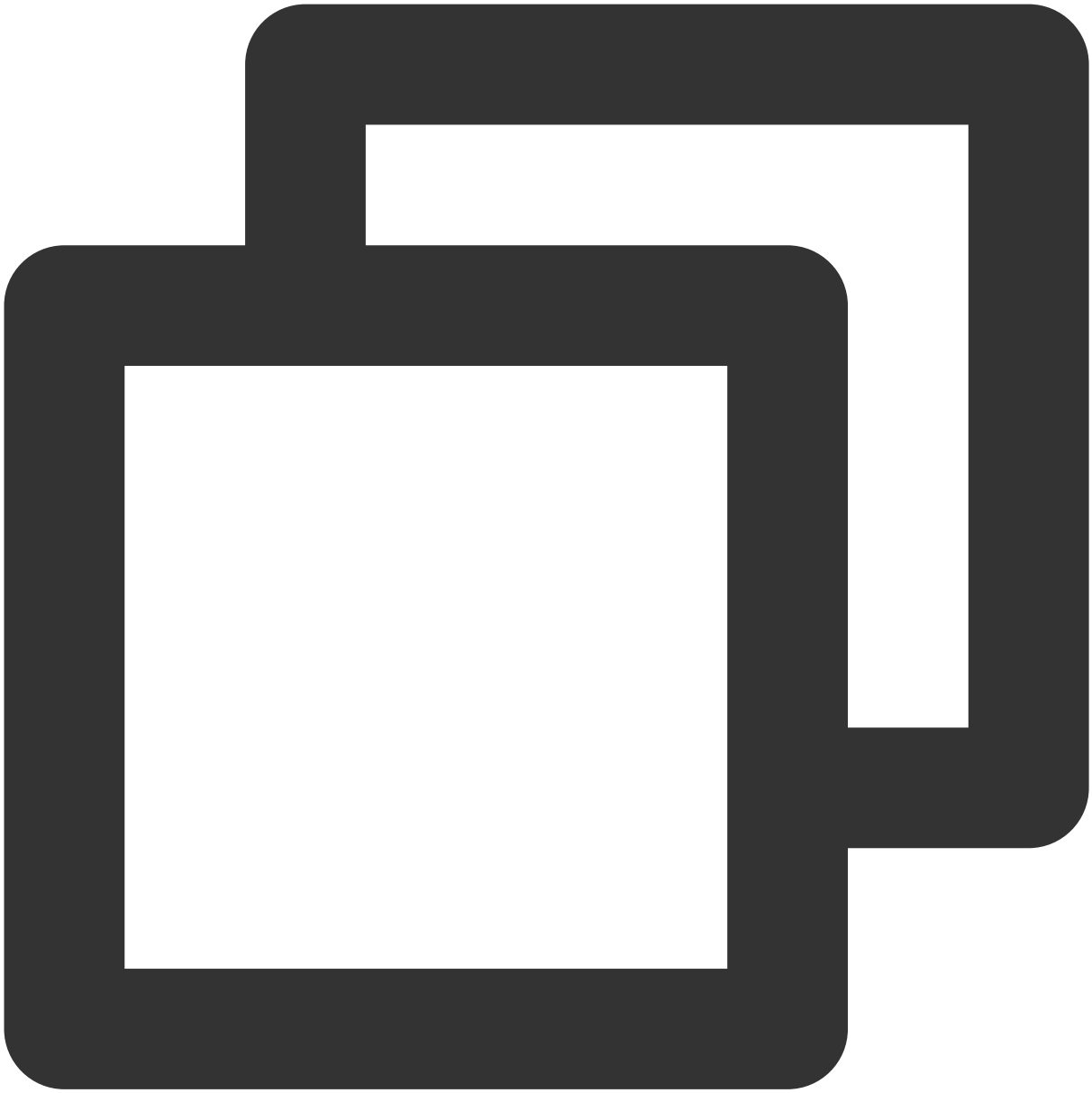

```
HTTP/1.1 303 Redirect
Content-Length: 0
Connection: close
Date: Thu, 29 Aug 2019 08:02:29 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Location: https://my.website/upload_success.html?bucket=examplebucket-1250000000&ke
Server: tencent-cos
x-cos-request-id: NWQ2Nzg2OTVfMTRiYjI0MDlfZGFkOV85MDA4****
```

Sample 9: Specifying the `success_action_status` form field

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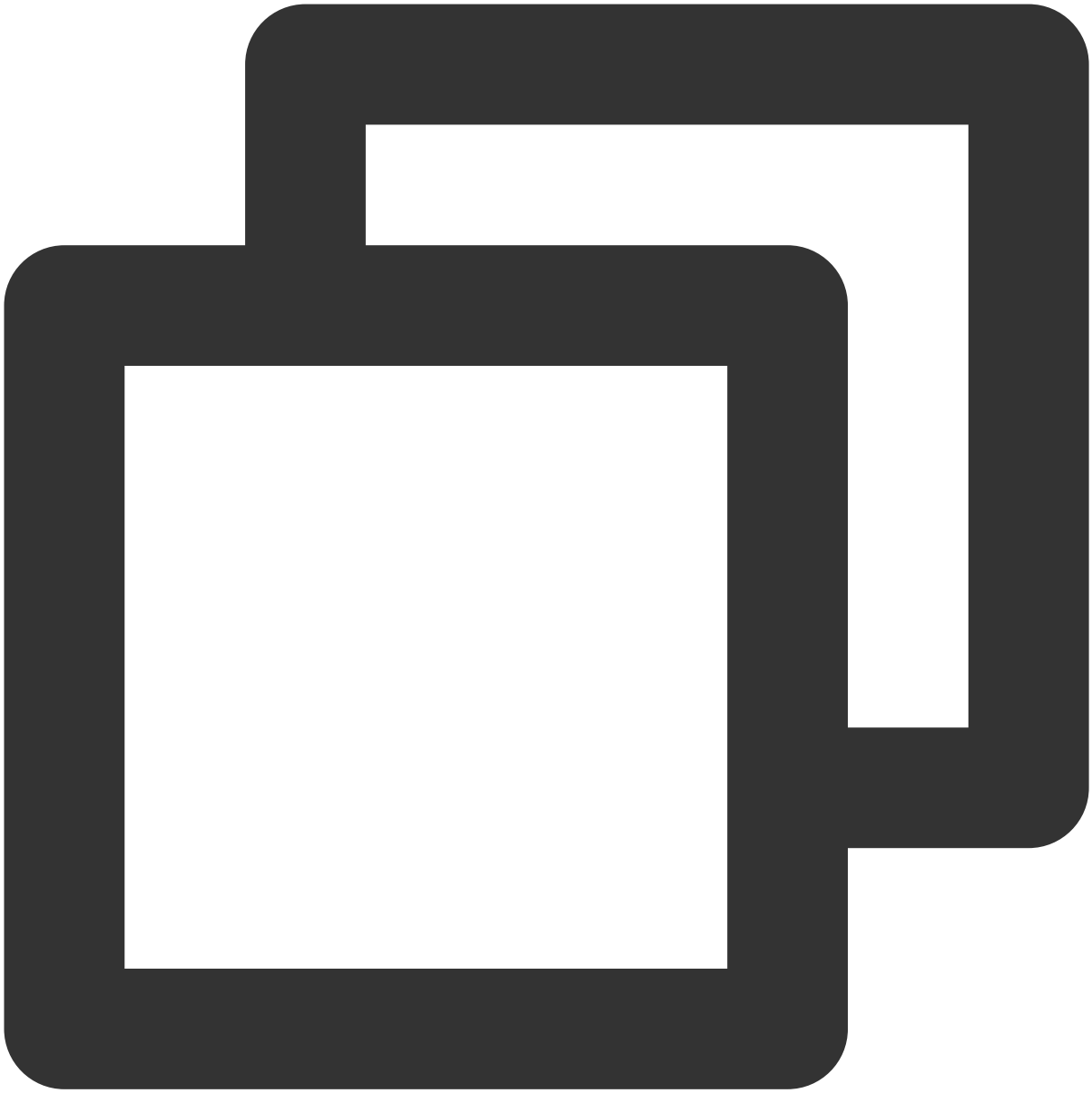
Request



```
POST / HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 29 Aug 2019 08:04:29 GMT
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Length: 1270
Connection: close

------WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Disposition: form-data; name="key"
```

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```
exampleobject
------WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Disposition: form-data; name="success_action_status"

200
------WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Disposition: form-data; name="policy"

eyJjb25kaXRpb25zIjpbeyJzdWNjZXNzX2FjdGlvbl9zdGF0dXMiOiIyMDAifSx7InEtc2lnbi1hbGdvcml
------WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Disposition: form-data; name="q-sign-algorithm"

sha1
------WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Disposition: form-data; name="q-ak"

AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****
------WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Disposition: form-data; name="q-key-time"

1567065869;1567073069
------WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Disposition: form-data; name="q-signature"

e46285af04d4fb68e0624fdd0a525b6a07ab****
------WebKitFormBoundaryST9Mz8AGzCDphgJF
Content-Disposition: form-data; name="file"; filename="example.jpg"
Content-Type: image/jpeg

[Object Content]
------WebKitFormBoundaryST9Mz8AGzCDphgJF--
```

Response

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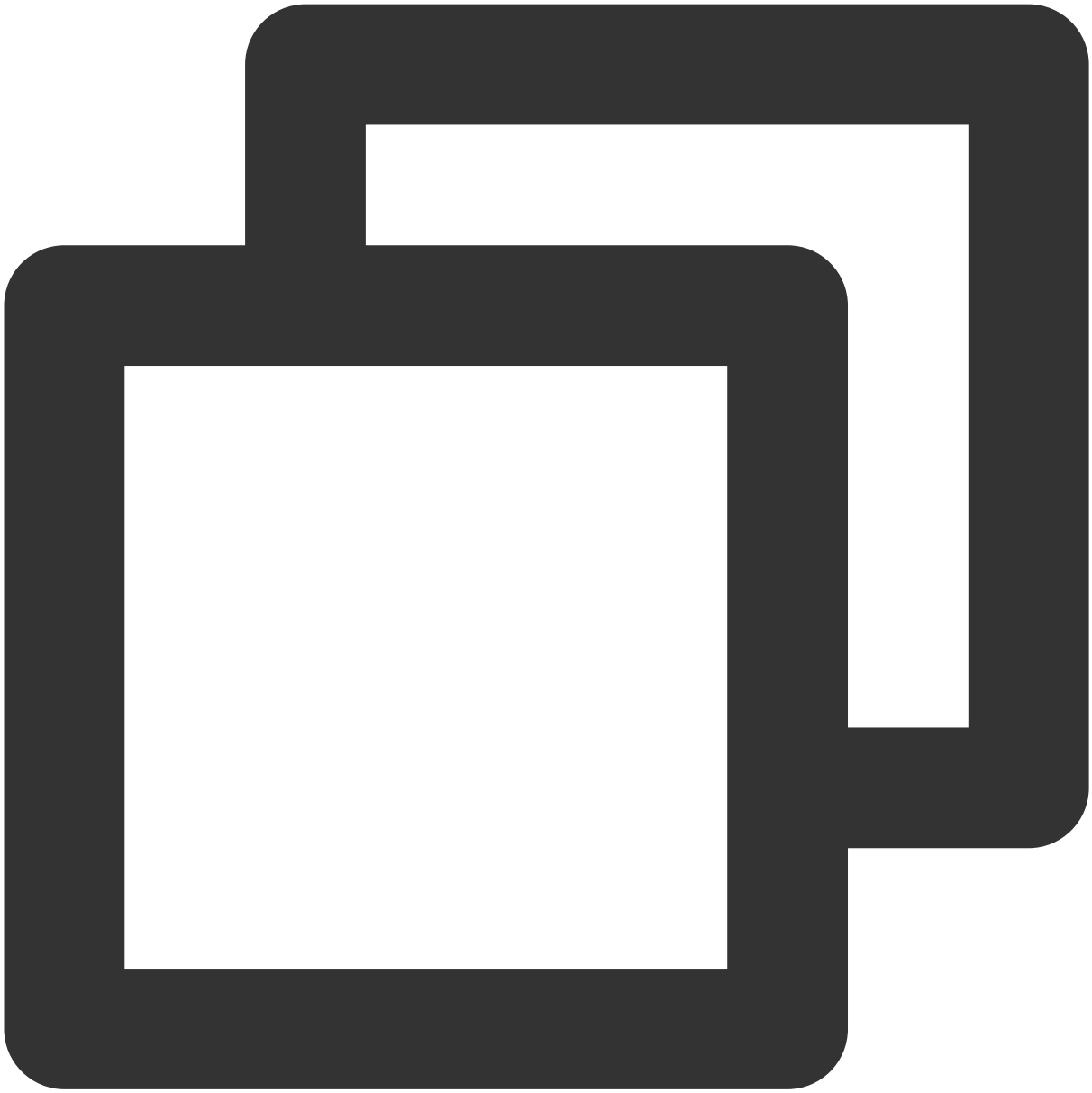

```
HTTP/1.1 200
Content-Length: 0
Connection: close
Date: Thu, 29 Aug 2019 08:04:29 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Location: http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject
Server: tencent-cos
x-cos-request-id: NWQ2Nzg3MGRfZjhjODBiMDlfOGM3N184Nzdl****
```

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GET Object

Last updated：2024-06-12 15:10:38

Overview

This API is used to download an object in a COS bucket to a local file system. To call this API, you need to have permission to read the object, or the object is set to `public-read` (i.e., everyone can read it).

Note:

If the `response-*` parameter is used in a request, anonymous access will not be supported and the request must carry a signature.

If you have set origin-pull in the COS console but haven't enabled **sync origin-pull**, when COS pulls data from the configured origin server, `GET Object` will return 302 and redirect to the origin server address. If this address is not trusted, when you use the SDK or call the API, it is strongly recommended that COS verify the address on the backend before requesting it, rather than directly returning 302. Otherwise, security risks such as server-side request forgery (SSRF) (e.g., pulling from a private network address) may occur.

Versioning

With versioning enabled, you can specify the `versionId` request parameter to get a specific version of an object. If the version ID you specify corresponds to a delete marker, HTTP status code 404 (Not Found) will be returned. If no version ID is specified, the latest version will be returned.

Archive storage classes

If this API is used to get an **ARCHIVE or DEEP ARCHIVE** object, and the object has not been restored using POST Object restore or the restored copy has been deleted after expiration, the request will return HTTP status code 403 (Forbidden) and include an error message in the response body. The error code `InvalidObjectState` indicates that you cannot use this API to get the object in its current state unless you restore it first.

Request

Sample request

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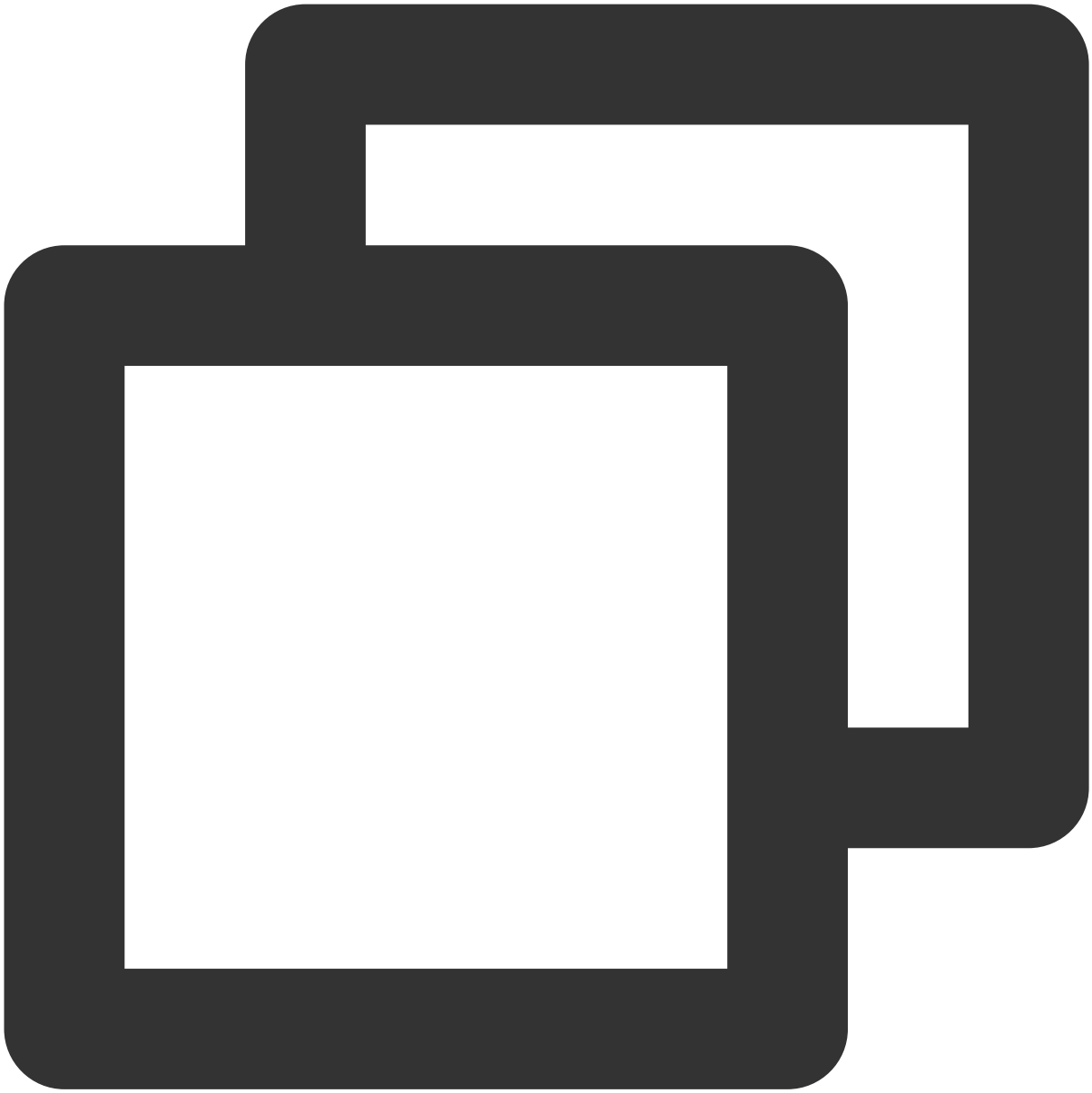

```
GET /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request parameters

Parameter	Description	Type	Required
response-cache-control	Sets the value of the `Cache-Control` header in the response	string	No
response-content-disposition	Sets the value of the `Content-Disposition` header in the response	string	No
response-content-encoding	Sets the value of the `Content-Encoding` header in the response	string	No
response-content-language	Sets the value of the `Content-Language` header in the response	string	No
response-content-type	Sets the value of the `Content-Type` header in the response	string	No
response-expires	Sets the value of the `Expires` header in the response	string	No
versionId	Specifies the version ID of the object (if versioning is enabled). If this parameter is not specified, the object of the latest version will be downloaded.	string	No

Request headers

In addition to common request headers, this API also supports the following request headers. For more information about common request headers, please see Common Request Headers.

Header	Description	Type	Required
Range	Byte range as defined in RFC 2616. The value must be in the format of `bytes=first-last` ("first" and "last" are offset relative to 0) and only one range can be set. For example, `bytes=0-9` indicates to download the first 10 bytes of the object and `bytes=5-9` the 6th to 10th bytes. HTTP status code 206 (Partial Content) and the `Content-Range` response header will be returned. If the value of "first" is smaller than the object size, HTTP status code 416 (Requested Range Not Satisfiable) will be returned. If this	string	No

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	parameter is not set, the whole object will be downloaded.		
If-Modified-Since	If the object is modified after the specified time, the object will be returned; otherwise, HTTP status code 304 (Not Modified) will be returned.	string	No
If-Unmodified-Since	If the object is not modified after the specified time, the object will be returned; otherwise, HTTP status code 412 (Precondition Failed) will be returned.	string	No
If-Match	If the `ETag` of the object is the same as the specified value, the object will be returned; otherwise, HTTP status code 412 (Precondition Failed) will be returned.	string	No
If-None-Match	If the `ETag` of the object is different from the specified value, the object will be returned; otherwise, HTTP status code 304 (Not Modified) will be returned.	string	No
x-cos-traffic-limit	Limits the speed (in bit/s) for the current download for traffic control. Valid range: 819200-838860800 (i.e., 100 KB/s–100 MB/s). If the speed exceeds the limit, a 400 error will be returned.	integer	No

Server-side encryption headers

If server-side encryption is used for the specified object and the encryption method is SSE-C, you will need to specify the headers related to server-side encryption to decrypt the object. For more information, see Server-side Encryption Headers.

Request body

This API does not have a request body.

Response

Response headers

In addition to common response headers, this API also returns the following response headers. For more information about common response headers, please see Common Response Headers.

Header	Description	Type
Cache-Control	Cache directives as defined in RFC 2616, which will be returned only if it is contained in the object metadata or if it is specified in the request parameter	string
Content-Disposition	Filename as defined in RFC 2616, which will be returned only if it is contained in the object metadata or if it is specified in the request parameter	string

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Content-Encoding	Encoding format as defined in RFC 2616, which will be returned only if it is contained in the object metadata or if it is specified in the request parameter	string
Content-Range	Byte range of the returned content as defined in RFC 2616, which will be returned only if it is specified in the request	string
Expires	Cache expiration time as defined in RFC 2616, which will be returned only if it is contained in the object metadata or if it is specified in the request parameter	string
x-cos-meta-*	Contains user-defined metadata and header suffixes	string
x-cos-storage-class	Object storage class. For the enumerated values, such as `INTELLIGENT_TIERING`, `STANDARD_IA`, `ARCHIVE`, and `DEEP_ARCHIVE`, please see Storage Class Overview. Note that this header will be returned only if the object's storage class is not STANDARD.	enum
x-cos-storage-tier	Specifies the access tier of INTELLIGENT TIERING objects. Valid values: `FREQUENT`, `INFREQUENT`	enum

Versioning-related headers

If the target object is from a versioning-enabled bucket, the following response header will be returned:

Header	Description	Type
x-cos-version-id	Object version ID	string

Server-side encryption headers

If server-side encryption is used for the specified object, this API will return the server-side encryption headers. For more information, see Server-side Encryption Headers.

Response body

The response body of this API request is the object (file) content.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Sample 1: simple use case (with versioning disabled)

Request

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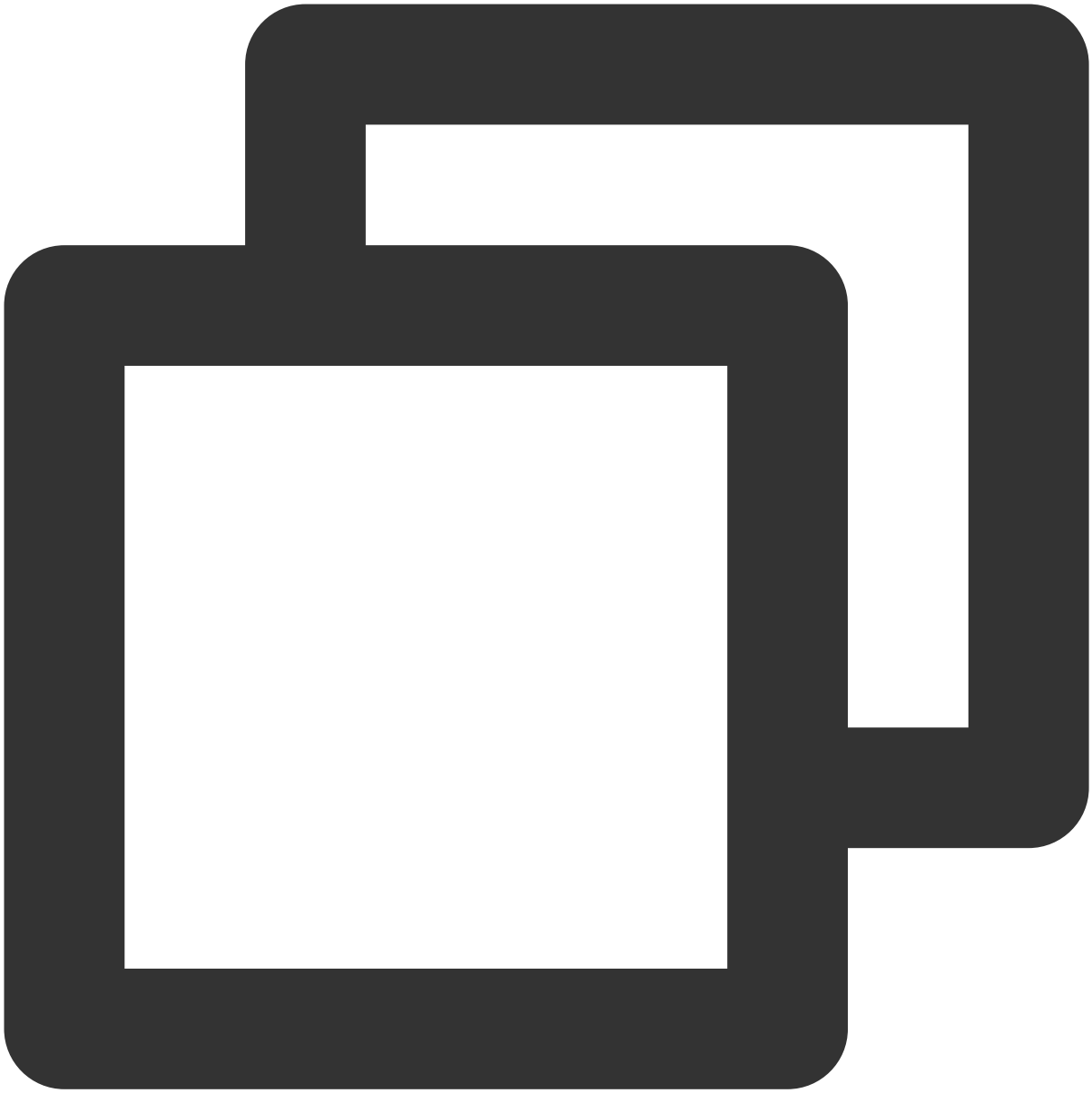

```
GET /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:35:16 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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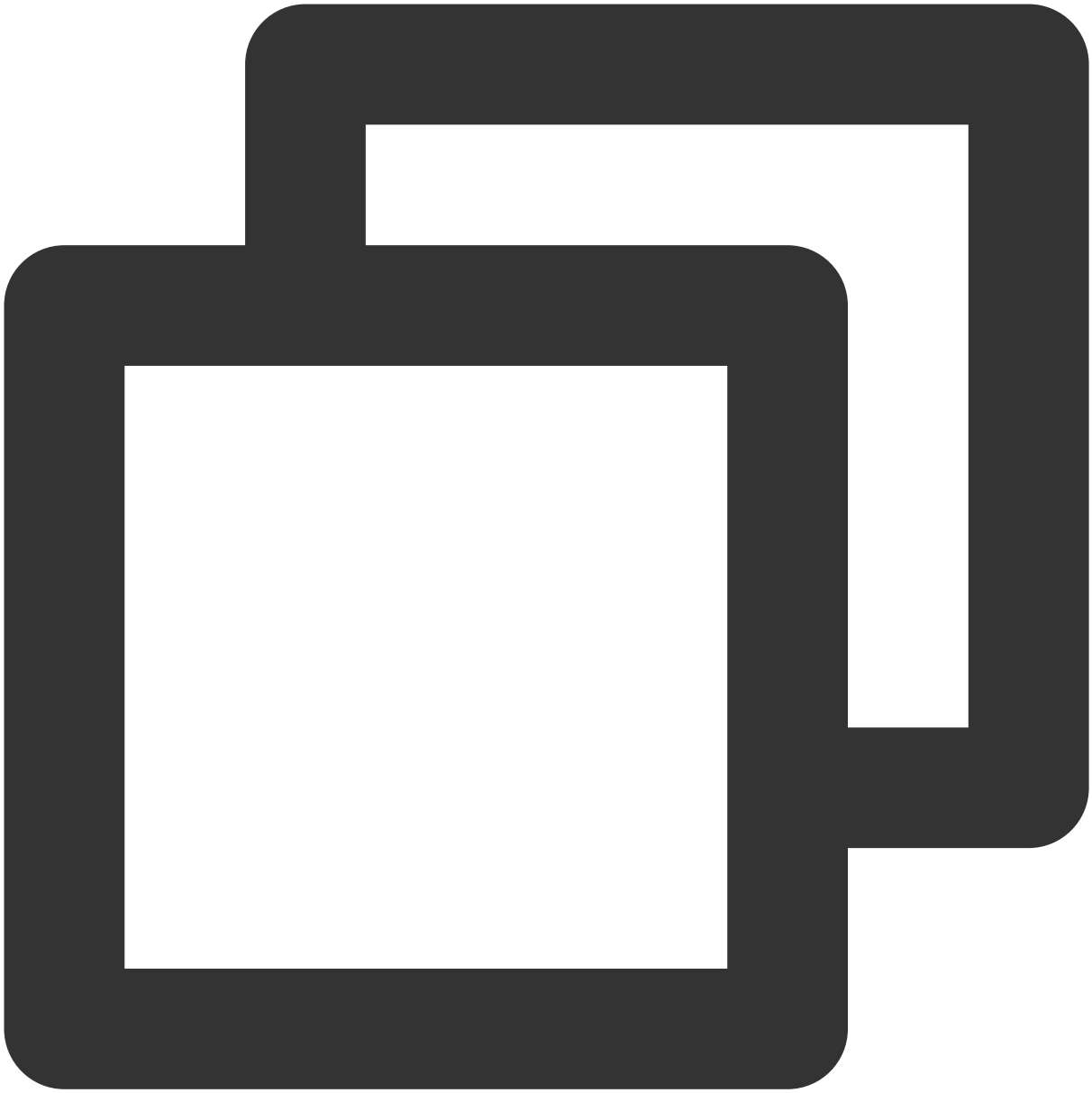

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Accept-Ranges: bytes
Date: Fri, 10 Apr 2020 09:35:16 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Last-Modified: Fri, 10 Apr 2020 09:35:05 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MDNkZDRfZDgyNzVkNjRfN2Q5M18xOWVi****
```

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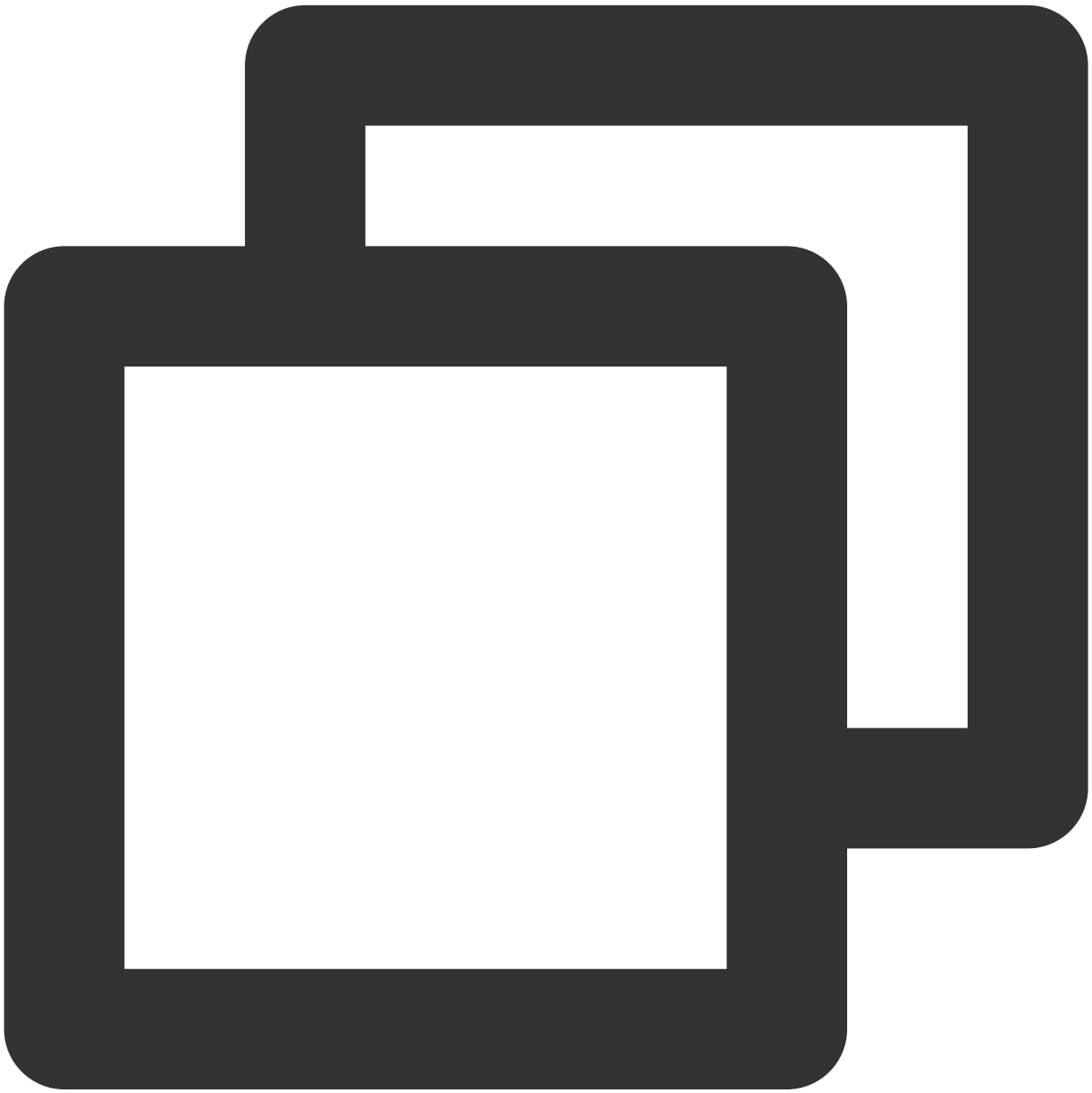
```
[Object Content]
```

Sample 2: specifying response headers through request parameters

Request



```
GET /exampleobject?response-content-type=application%2Foctet-stream&response-cache-
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

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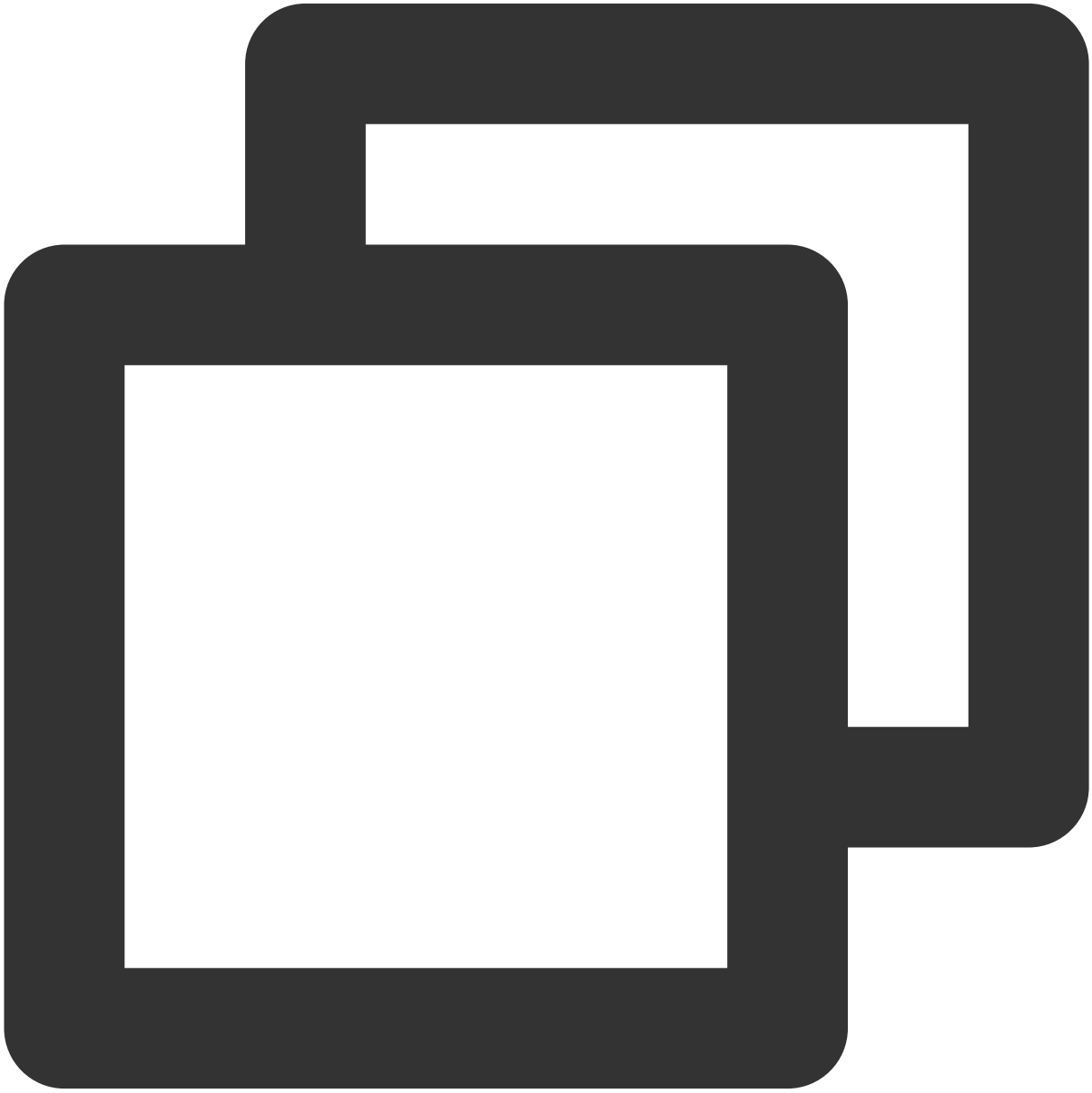
```
Date: Fri, 10 Apr 2020 09:35:17 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/octet-stream
Content-Length: 16
Connection: close
Accept-Ranges: bytes
```

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```
Cache-Control: max-age=86400
Content-Disposition: attachment; filename=example.jpg
Date: Fri, 10 Apr 2020 09:35:17 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Last-Modified: Fri, 10 Apr 2020 09:35:05 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MDNkZDVfNjZjODJhMDlfMTY2MDdfMThm****



[Object Content]
```

Sample 3: specifying search criteria through the request headers with HTTP status code 304 (Not Modified) returned

Request

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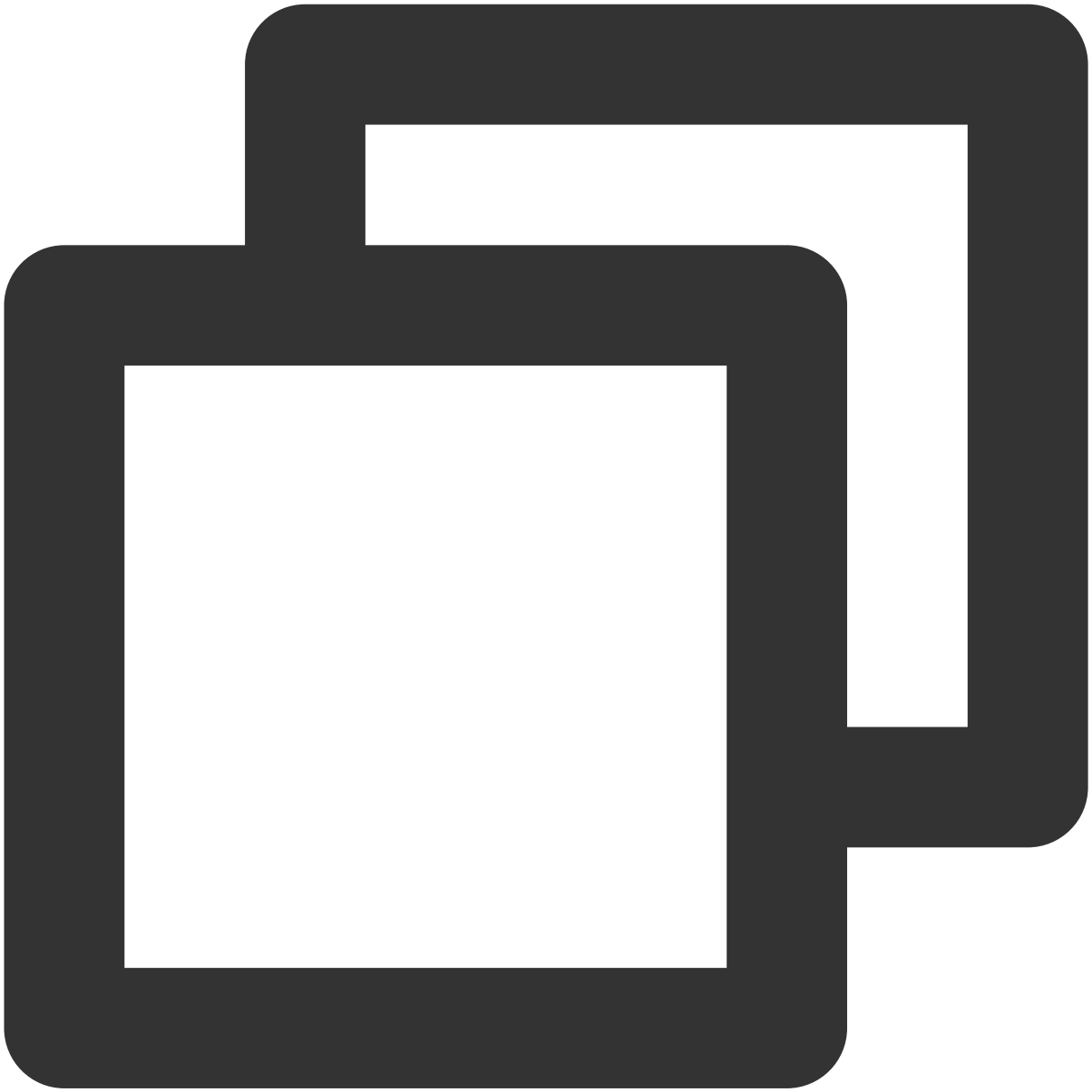

```
GET /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 29 Jul 2020 06:51:49 GMT
If-None-Match: "ee8de918d05640145b18f70f4c3aa602"
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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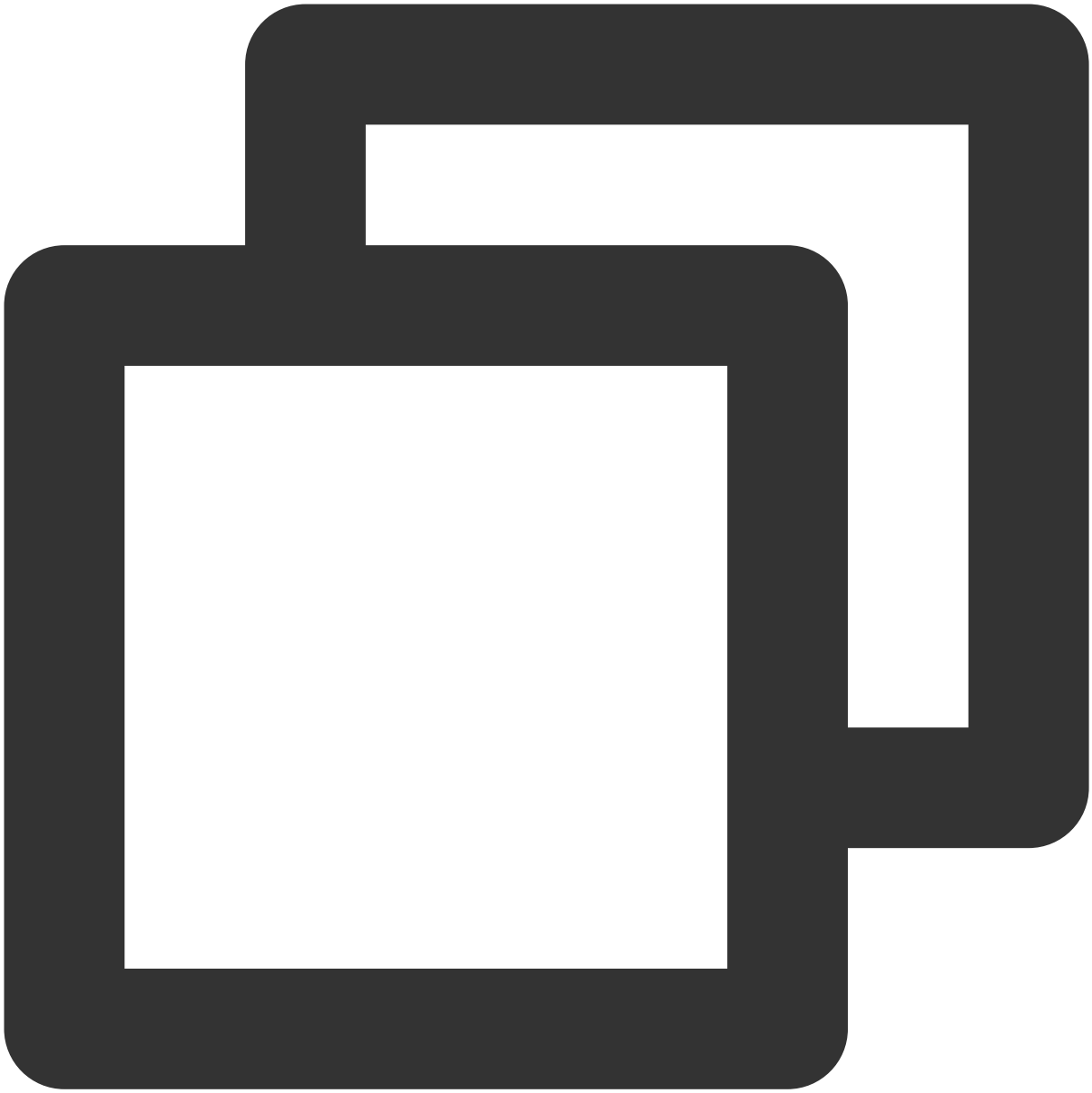

```
HTTP/1.1 304 Not Modified
Content-Type: image/jpeg
Content-Length: 0
Connection: close
Date: Wed, 29 Jul 2020 06:51:49 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWYyMTFjODVfOGZiNzJhMDlfNDcxZjZfZDY2****
```

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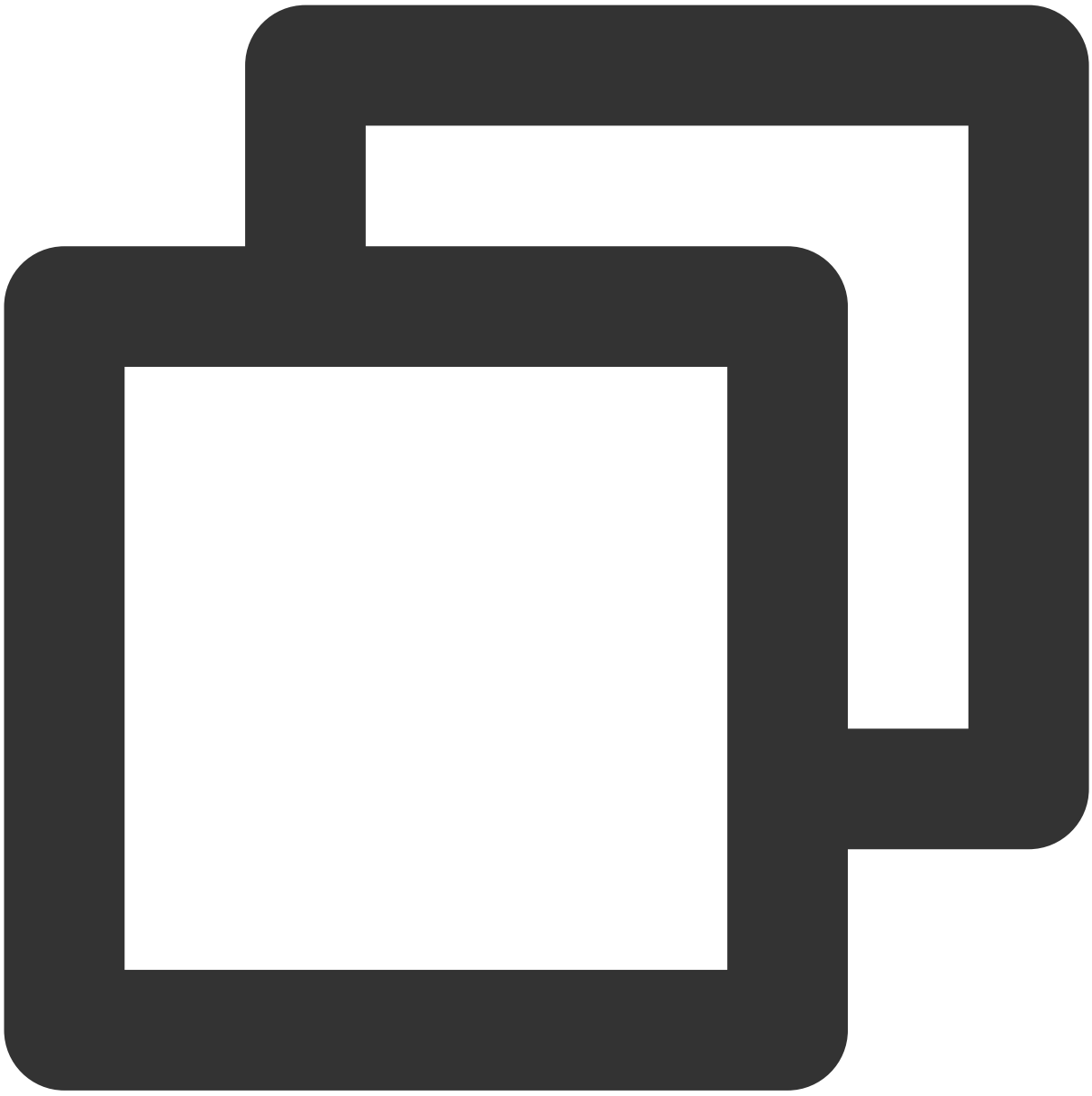
Sample 4: specifying search criteria through the request header with HTTP status code 412 (Precondition Failed) returned

Request



```
GET /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 29 Jul 2020 06:51:50 GMT
If-Match: "aa488bb80185a6be87f4a7b936a80752"
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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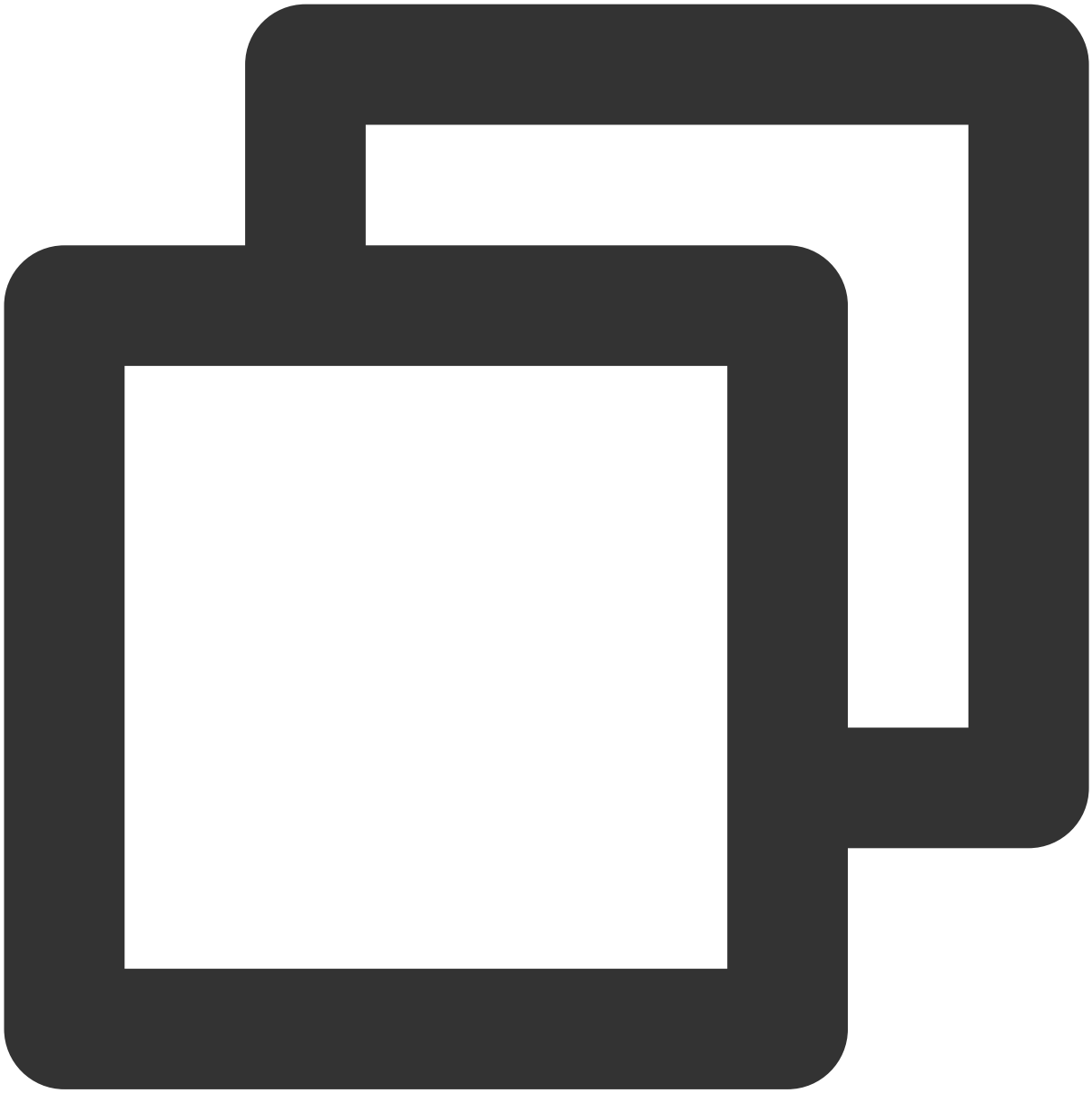
Response



```
HTTP/1.1 412 Precondition Failed
Content-Type: application/xml
Content-Length: 480
Connection: close
Date: Wed, 29 Jul 2020 06:51:50 GMT
Server: tencent-cos
x-cos-request-id: NWYyMTFjODZfOGRjOTJhMDlfMmIyMWVfOTJl****
```

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```
<?xml version='1.0' encoding='utf-8' ?>
<Error>
            <Code>PreconditionFailed</Code>
            <Message>Precondition not match.</Message>
            <Resource>examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleo
            <RequestId>NWYyMTFjODZfOGRjOTJhMDlfMmIyMWVfOTJl****</RequestId>
            <TraceId>OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODc0OWRkZjk0ZDM1NmI1M2
</Error>
```

Sample 5: using server-side encryption SSE-COS

Request

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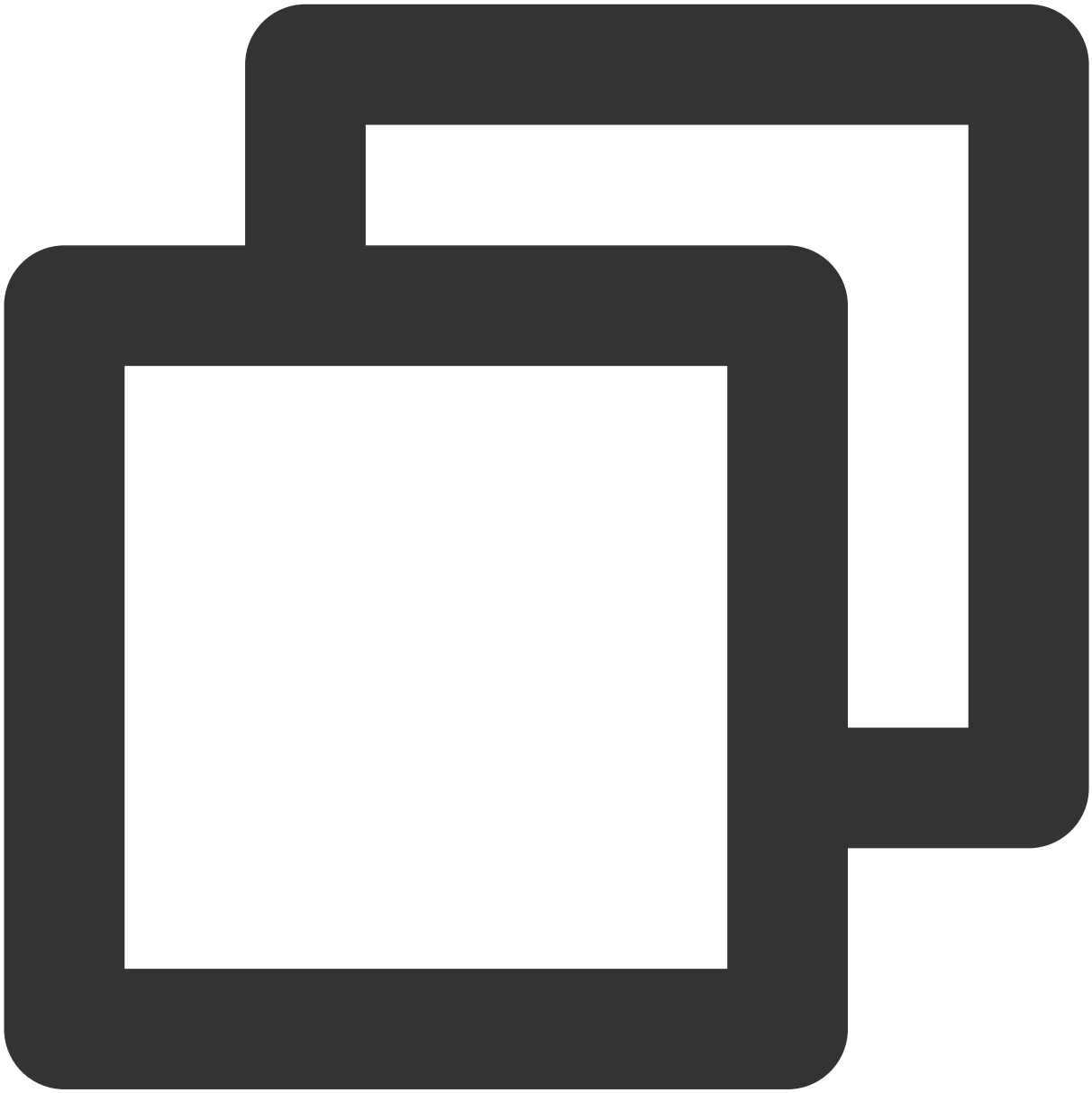

```
GET /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:36:00 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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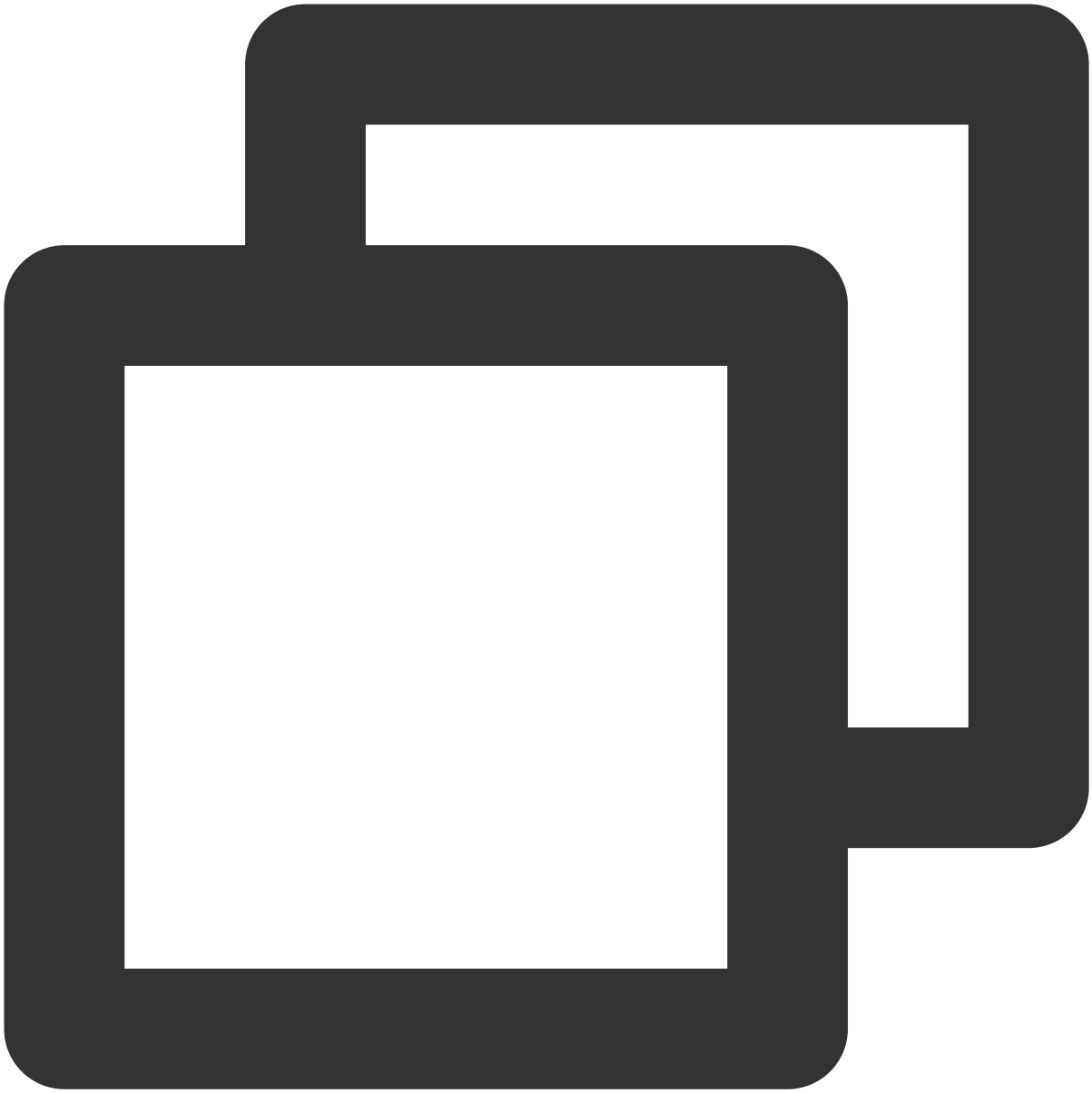

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Accept-Ranges: bytes
Date: Fri, 10 Apr 2020 09:36:00 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Last-Modified: Fri, 10 Apr 2020 09:35:49 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MDNlMDBfMzdiMDJhMDlfYTgyNl8xNjA2****
```

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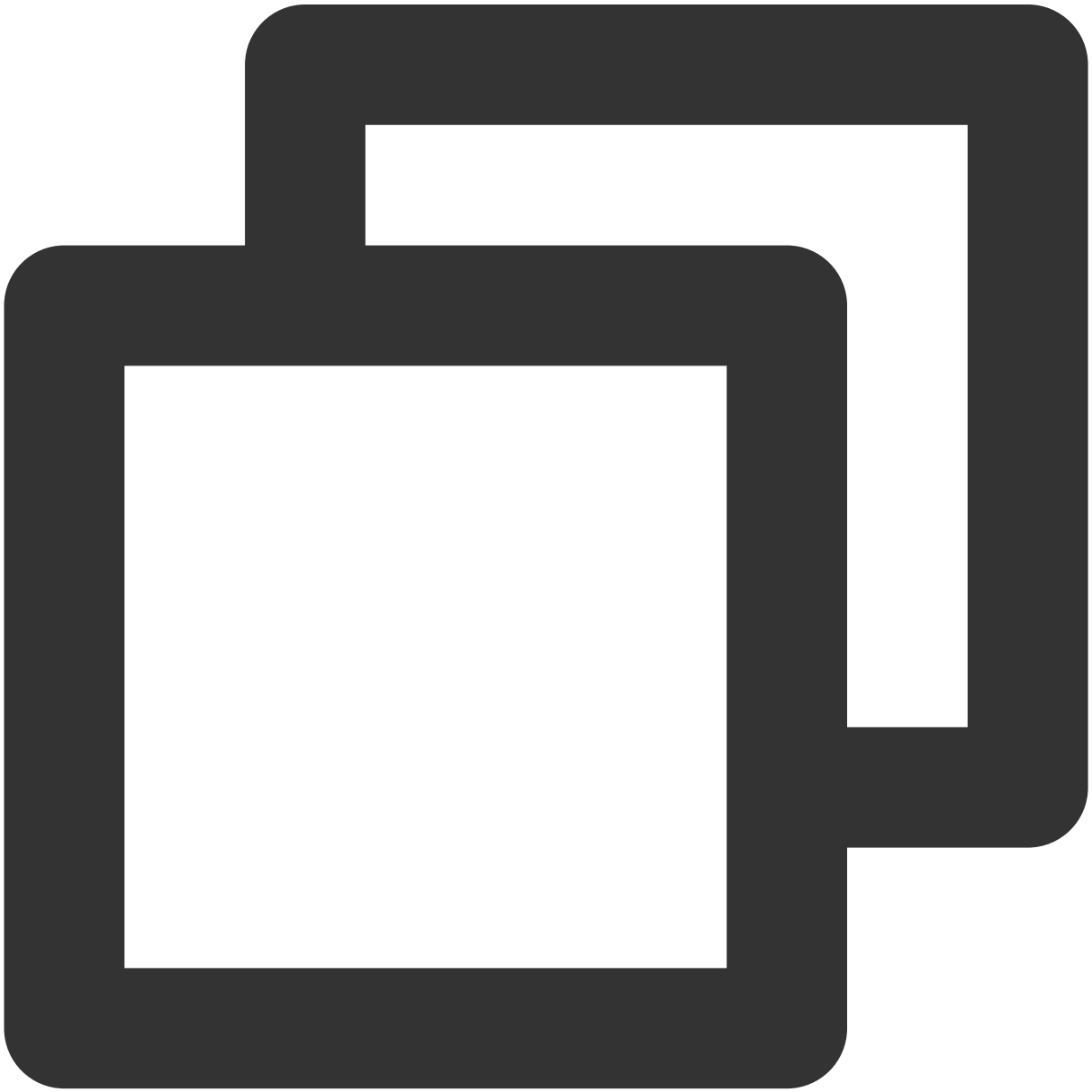
```
x-cos-server-side-encryption: AES256



[Object Content]
```

Sample 6: using server-side encryption SSE-KMS

Request



```
GET /exampleobject HTTP/1.1
```

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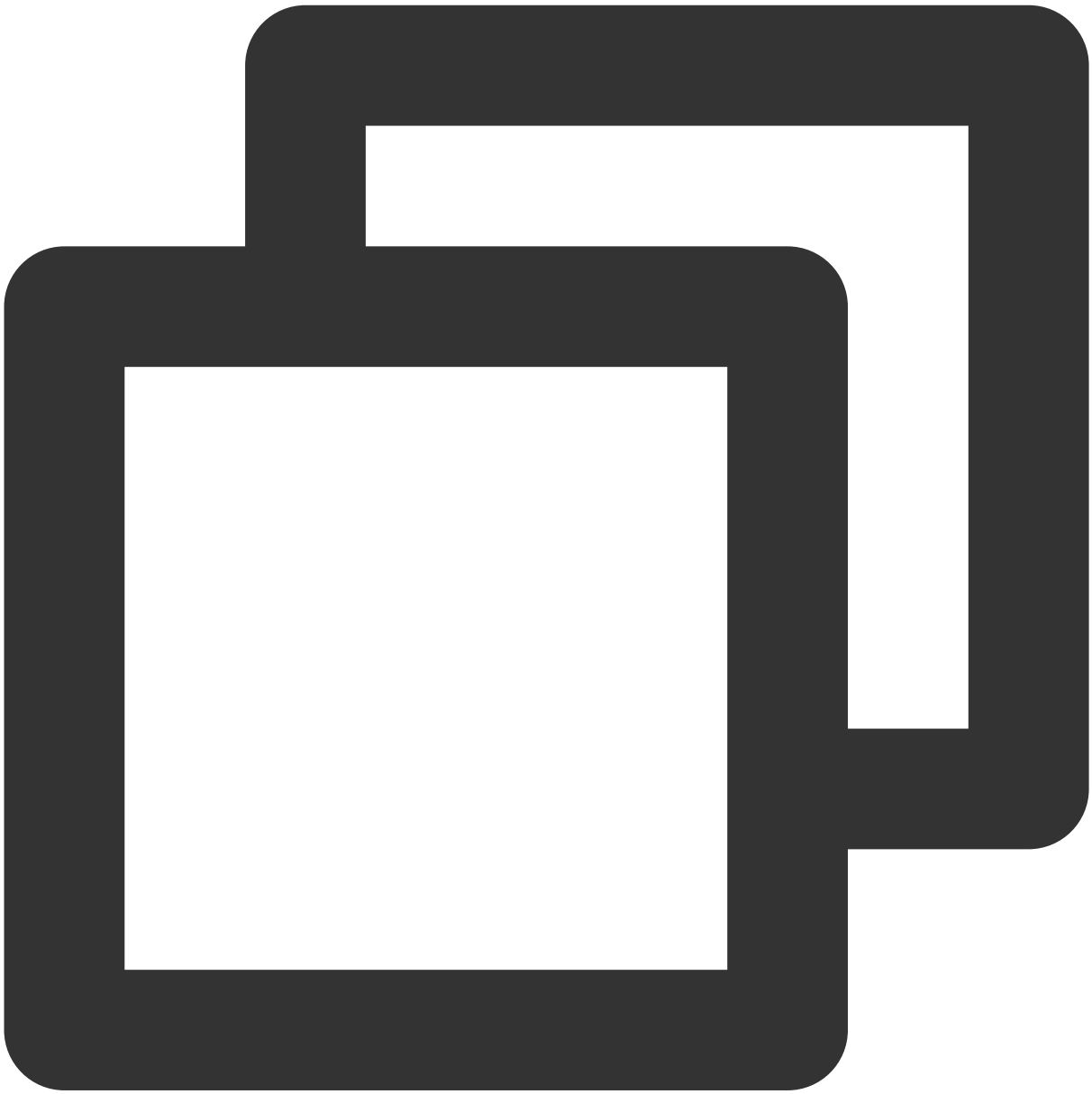
```
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:36:11 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
```

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```
Accept-Ranges: bytes
Date: Fri, 10 Apr 2020 09:36:11 GMT
ETag: "840af7c921f4b3230049af8663145bd0"
Last-Modified: Fri, 10 Apr 2020 09:36:01 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MDNlMGJfZGEyNzVkNjRfZDgxY18xYTBj****
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****



[Object Content]
```

Sample 7: using server-side encryption SSE-C

Request

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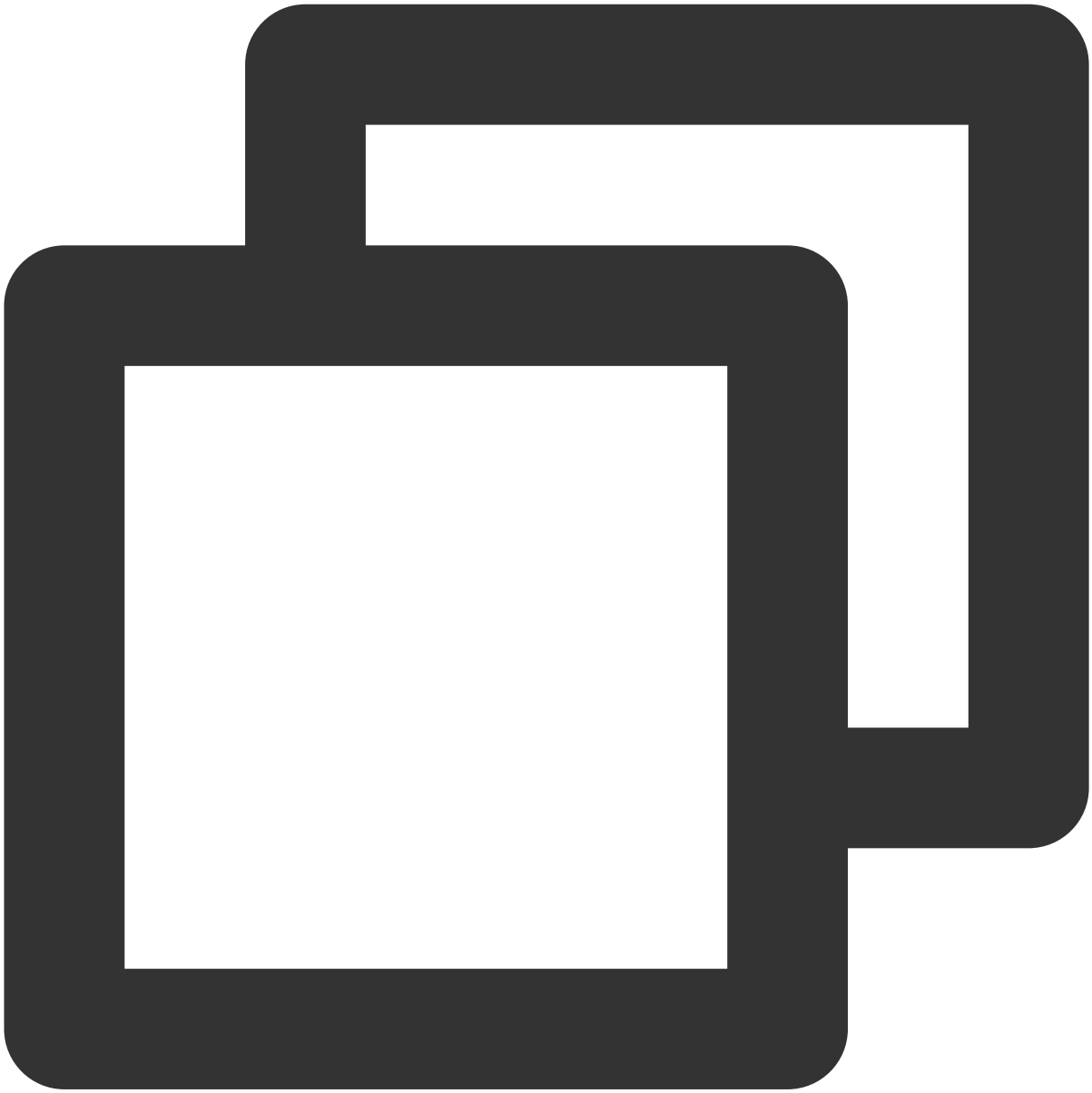

```
GET /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:36:23 GMT
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key: MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNE
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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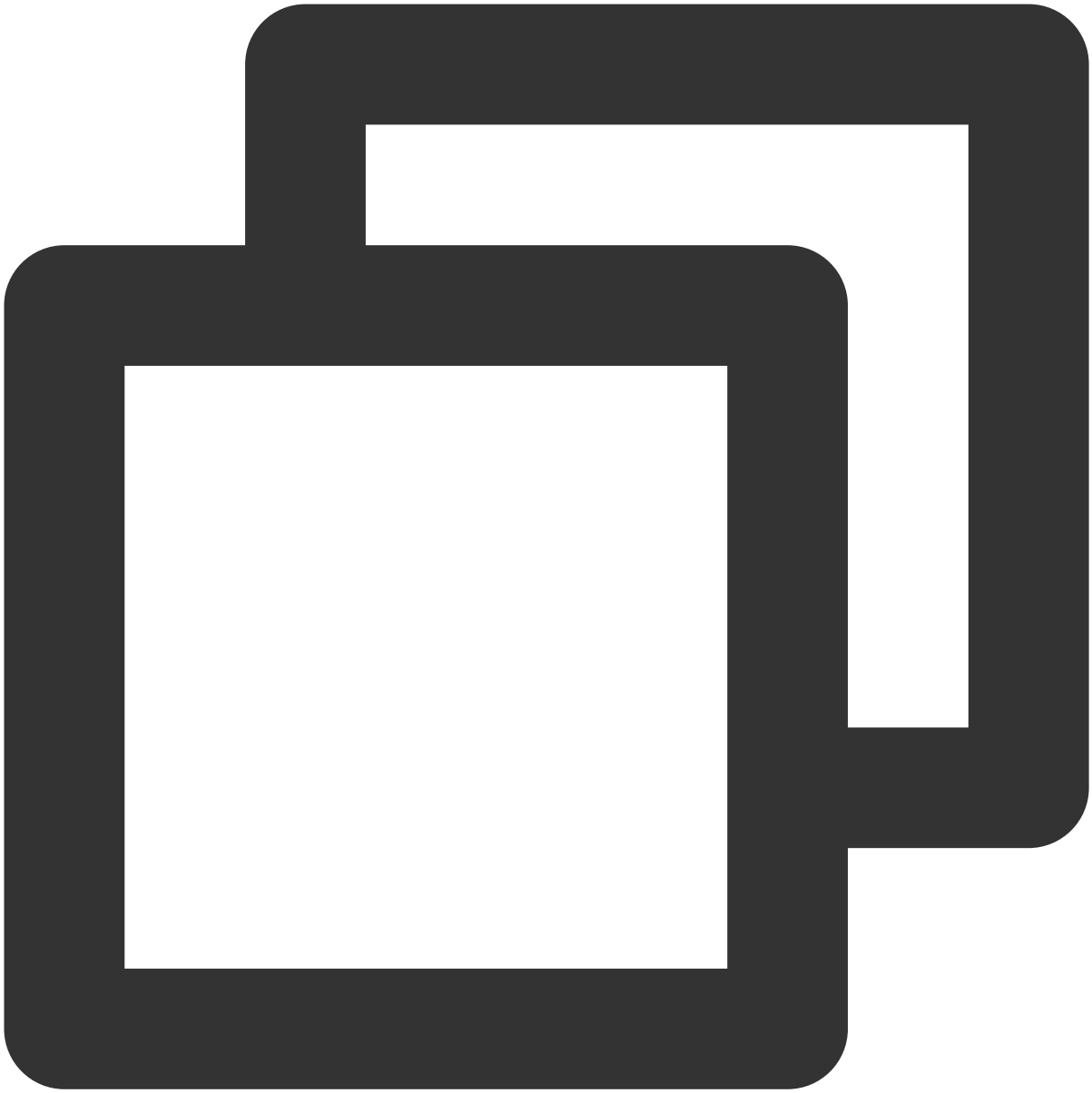

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Accept-Ranges: bytes
Date: Fri, 10 Apr 2020 09:36:23 GMT
ETag: "582d9105f71525f3c161984bc005efb5"
Last-Modified: Fri, 10 Apr 2020 09:36:12 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MDNlMTdfNzBiODJhMDlfZTVmMV8xNDAy****
```

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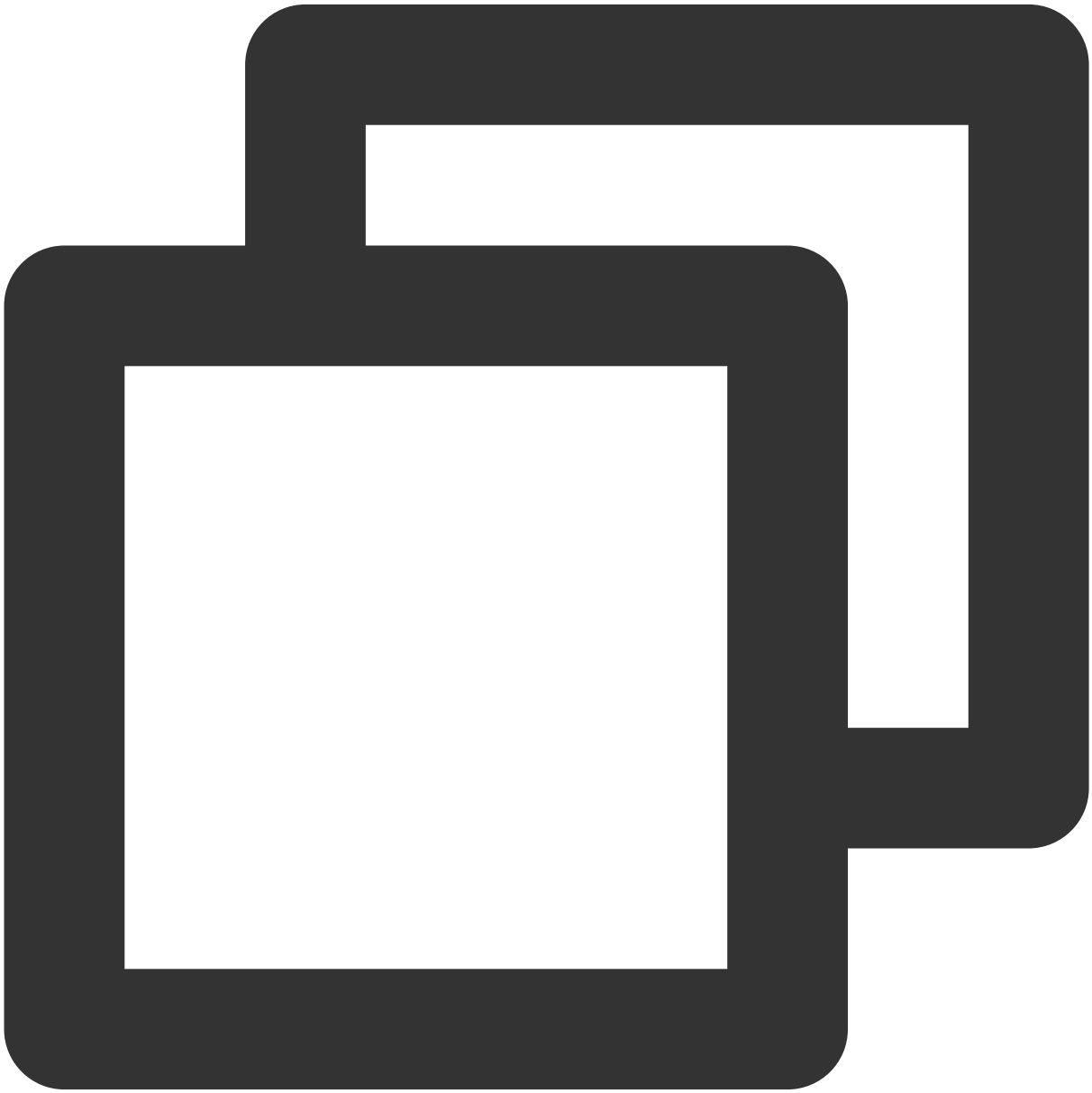
```
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==



[Object Content]
```

Sample 8: downloading an object of the latest version (with versioning enabled)

Request



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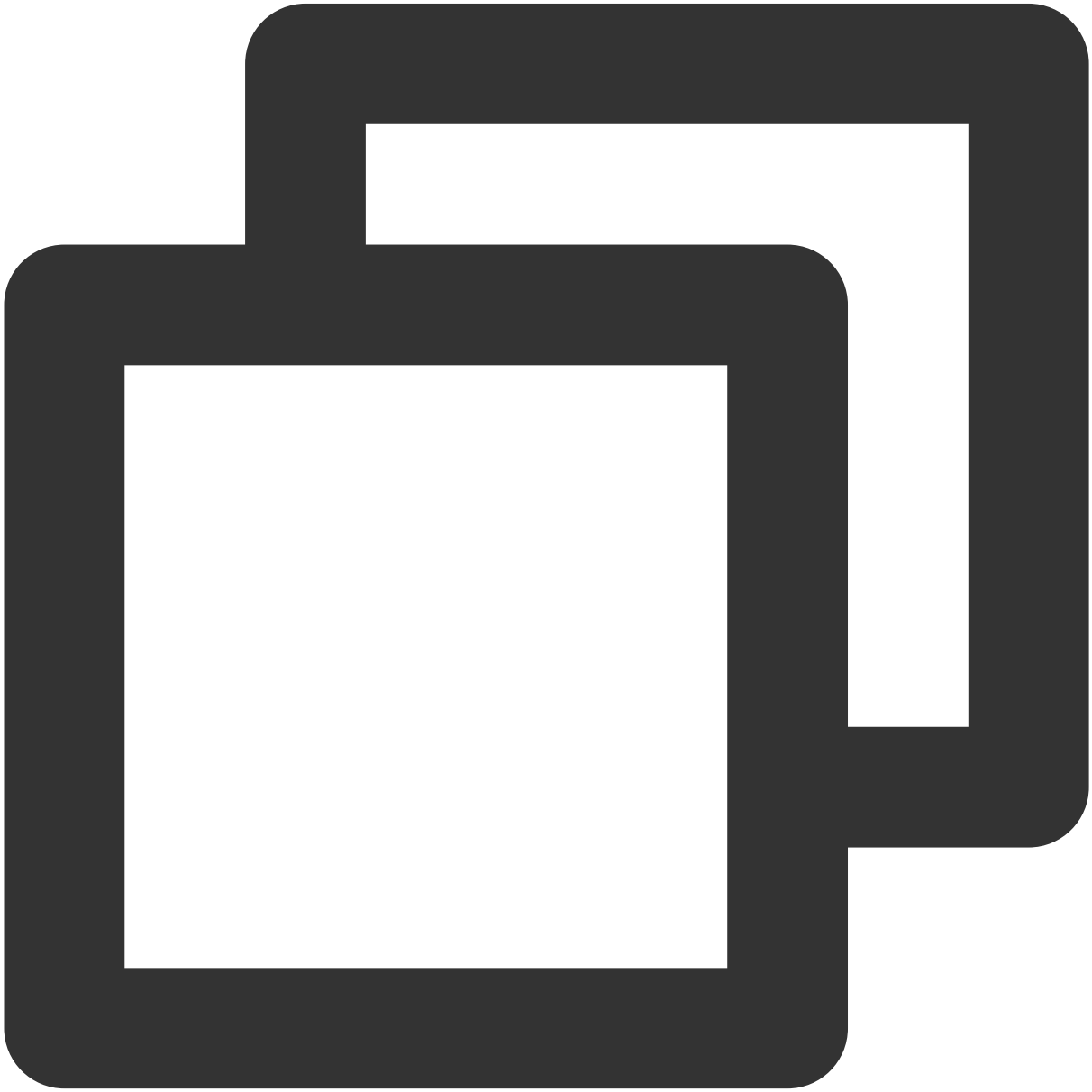
```
GET /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 12:30:02 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: image/jpeg
```

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```
Content-Length: 26
Connection: close
Accept-Ranges: bytes
Date: Fri, 10 Apr 2020 12:30:02 GMT
ETag: "22e024392de860289f0baa7d6cf8a549"
Last-Modified: Fri, 10 Apr 2020 12:29:52 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 11596229263574363878
x-cos-request-id: NWU5MDY2Y2FfMzFiYjBiMDlfMjE2NzVfMTgz****
x-cos-version-id: MTg0NDUxNTc1NTE5MTc1NjM4MDA



[Object Content Version 2]
```

Sample 9: downloading an object of a specific version (with versioning enabled)

Request

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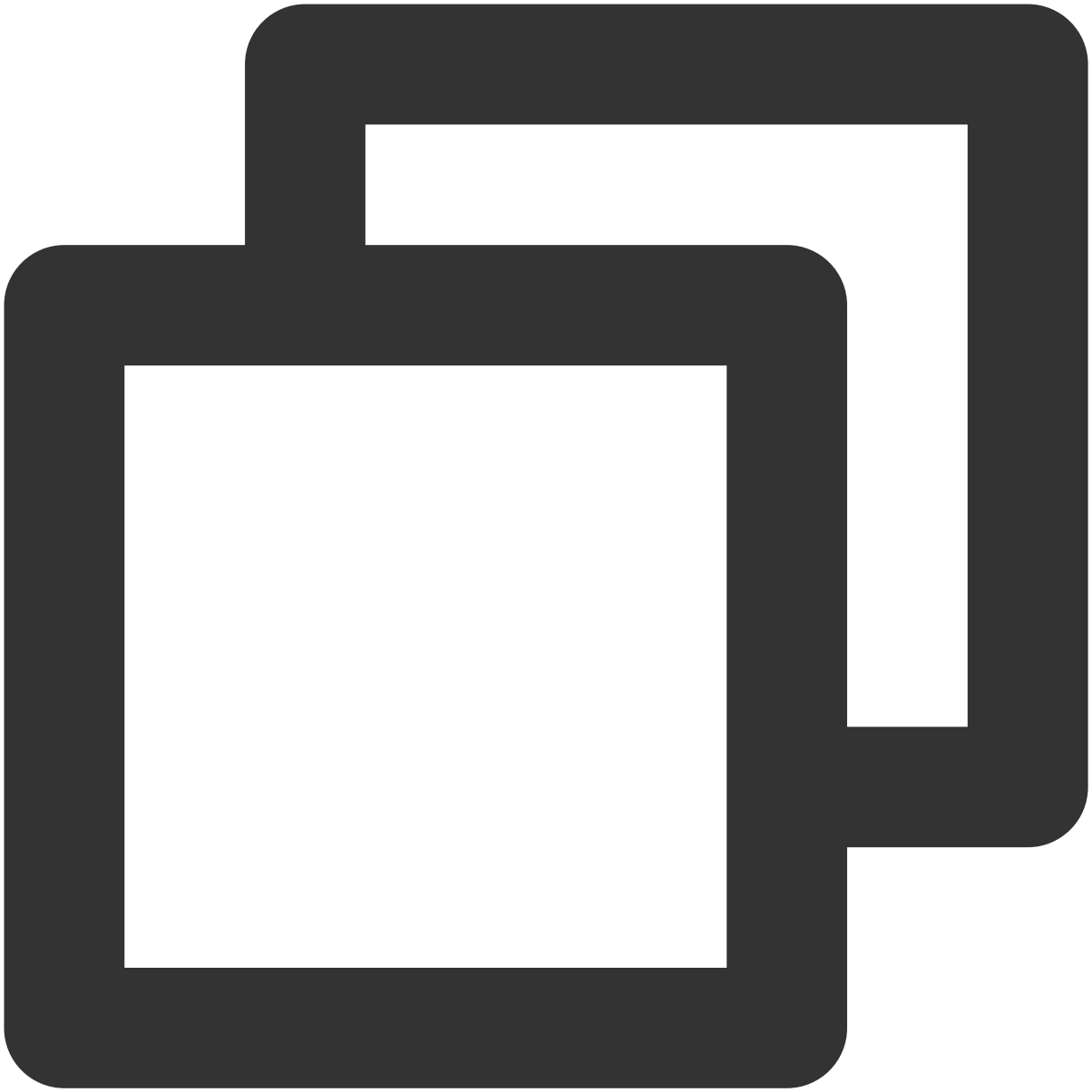

```
GET /exampleobject?versionId=MTg0NDUxNTc1NjIzMTQ1MDAwODg HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 09:36:45 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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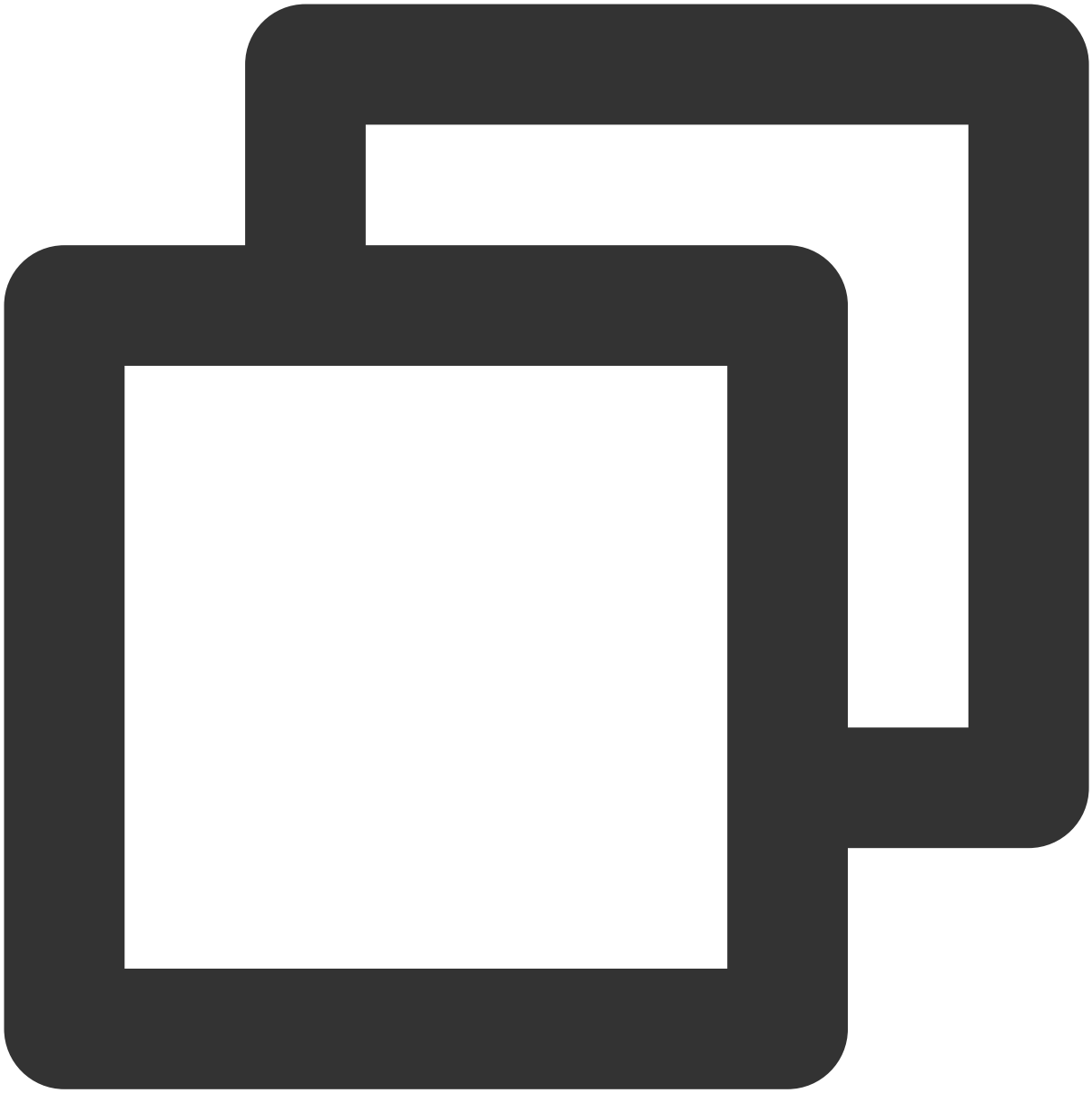

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Accept-Ranges: bytes
Date: Fri, 10 Apr 2020 09:36:45 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Last-Modified: Fri, 10 Apr 2020 09:36:35 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MDNlMmRfNzBiODJhMDlfZTYwZl8xM2Fh****
```

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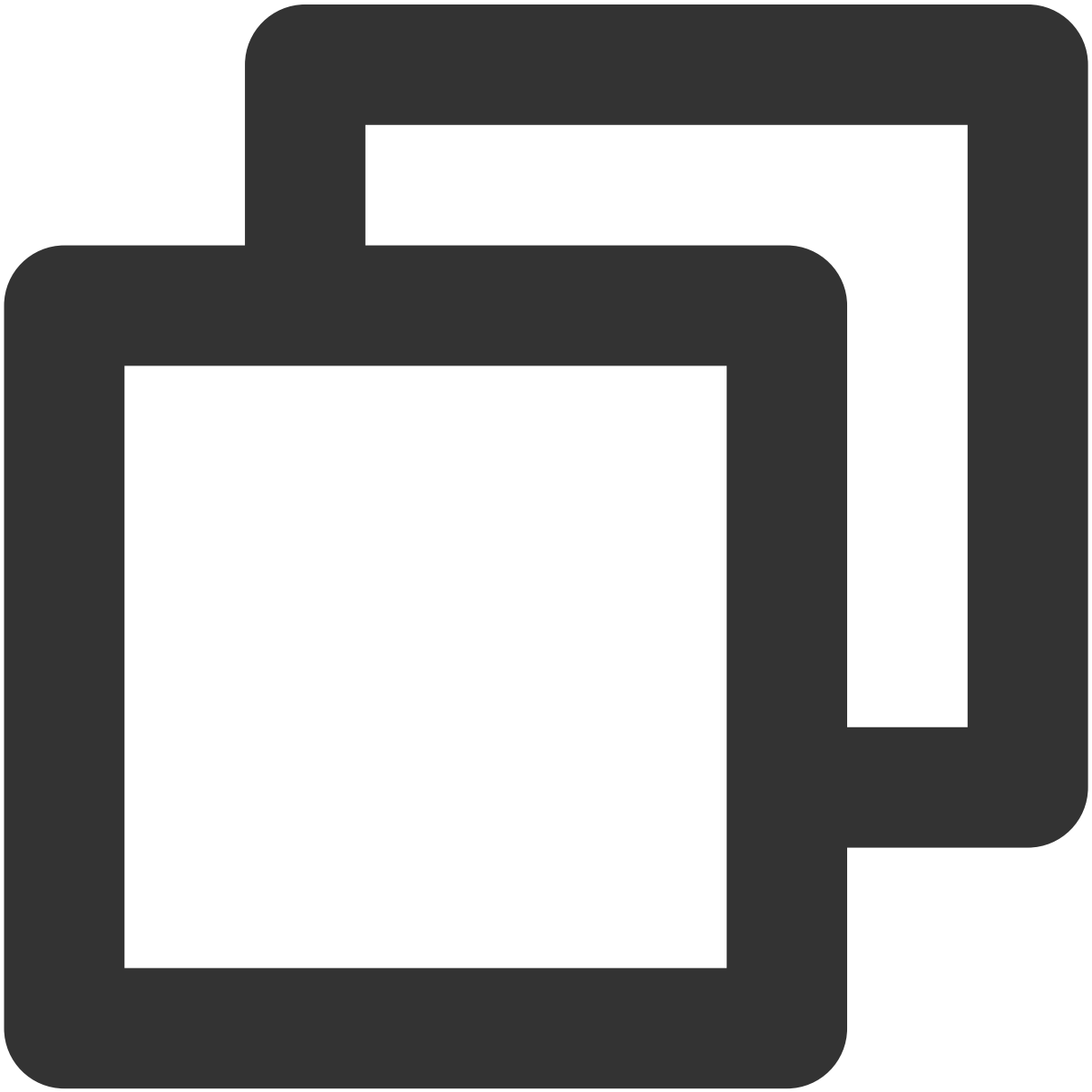
```
x-cos-version-id: MTg0NDUxNTc1NjIzMTQ1MDAwODg



[Object Content]
```

Sample 10: specifying the Range request header to download partial content

Request



```
GET /exampleobject HTTP/1.1
```

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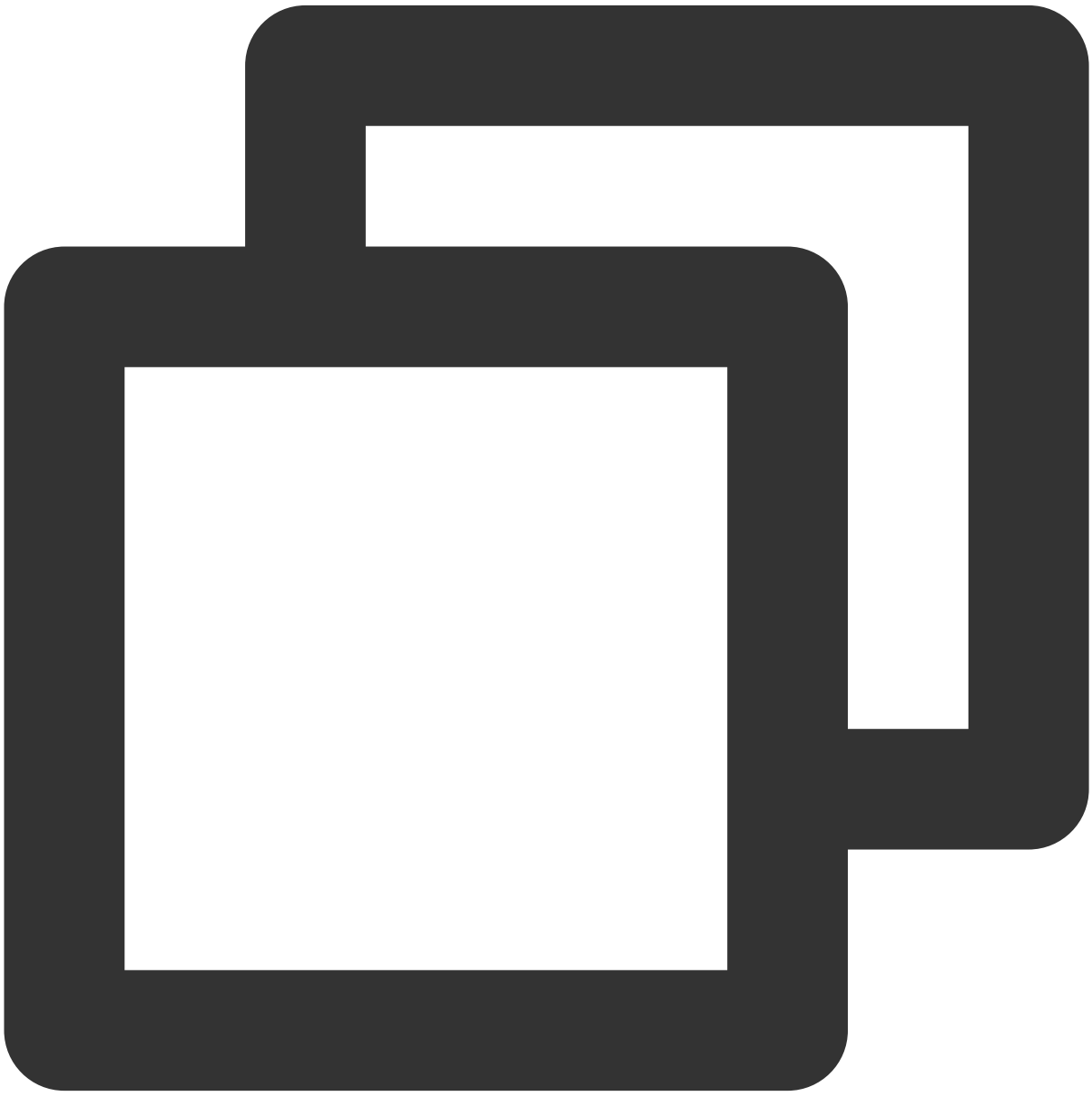
```
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 12:32:37 GMT
Range: bytes=8-14
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 206 Partial Content
Content-Type: image/jpeg
Content-Length: 7
```

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```
Connection: close
Accept-Ranges: bytes
Content-Range: bytes 8-14/16
Date: Fri, 10 Apr 2020 12:32:37 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Last-Modified: Fri, 10 Apr 2020 12:32:25 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MDY3NjVfY2VjODJhMDlfOWVlZl8xNmMy****



Content
```

Sample 11: downloading an ARCHIVE object that has not been restored

Request

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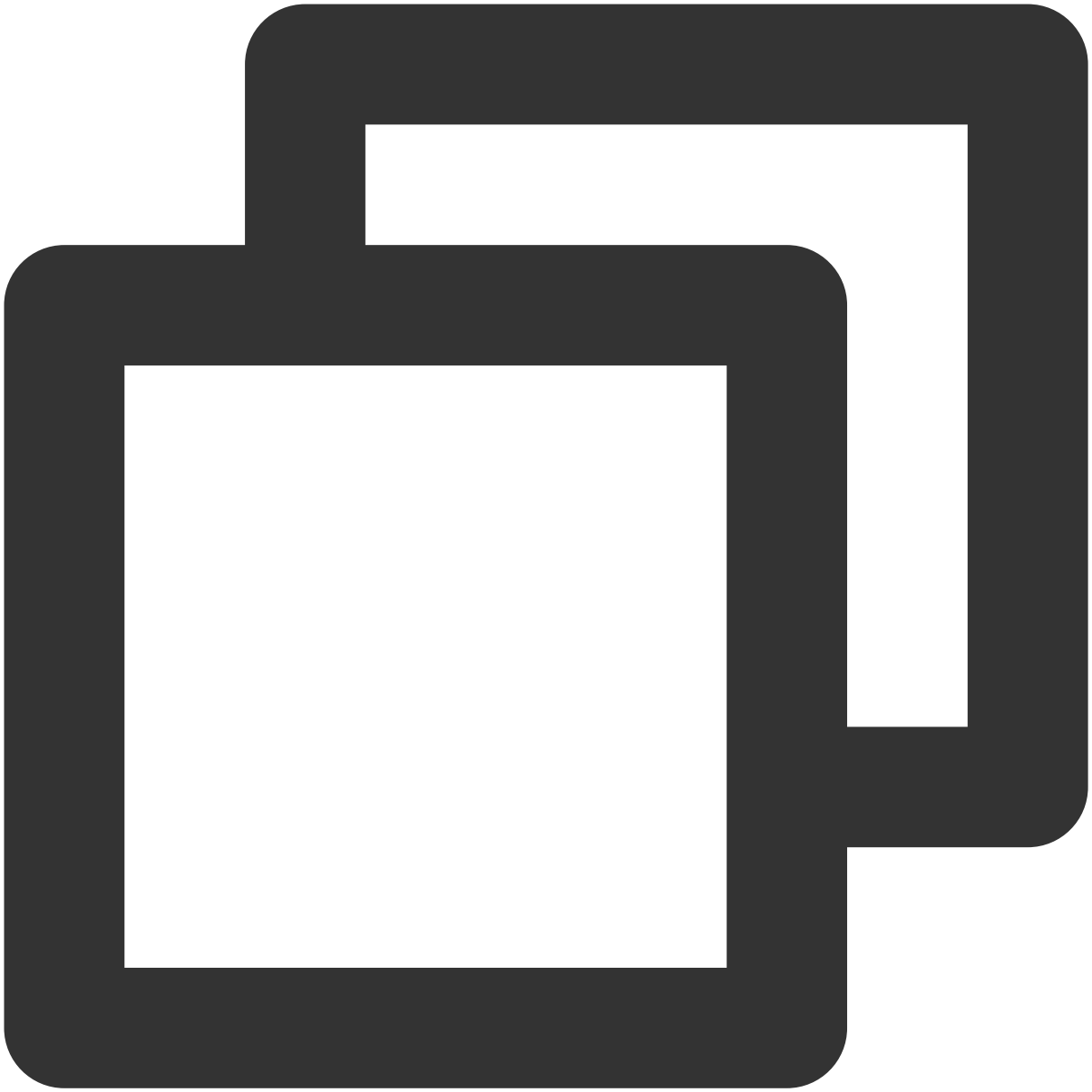

```
GET /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 26 Dec 2019 11:57:24 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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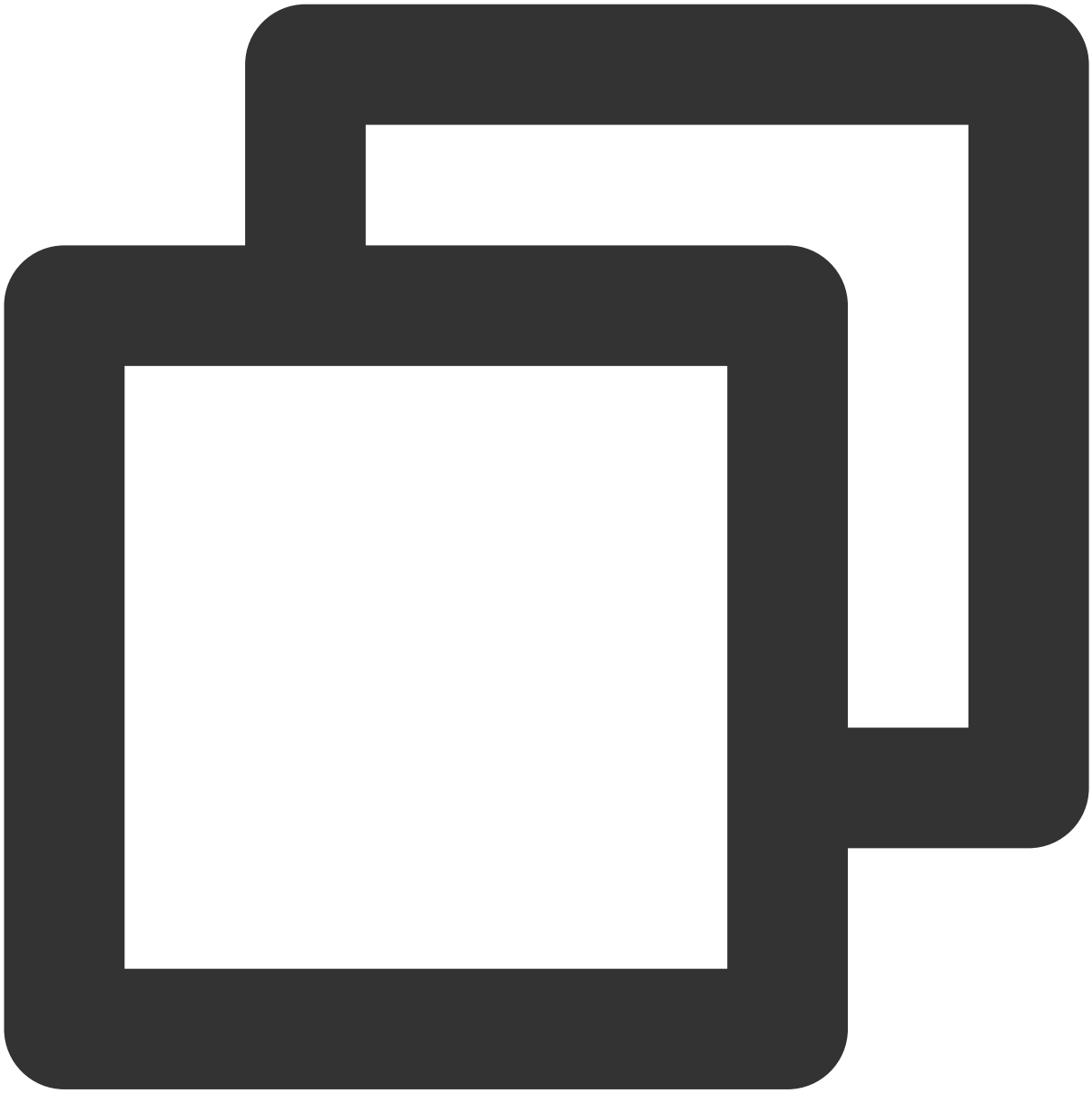

```
HTTP/1.1 403 Forbidden
Content-Type: application/xml
Content-Length: 513
Connection: close
Date: Thu, 26 Dec 2019 11:57:24 GMT
Server: tencent-cos
x-cos-request-id: NWUwNGEwMjRfZDcyNzVkNjRfNjZlM183Zjcx****
x-cos-storage-class: ARCHIVE
```

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```
<?xml version='1.0' encoding='utf-8' ?>
<Error>
            <Code>InvalidObjectState</Code>
            <Message>The operation is not valid for the object storage class.</Mess
            <Resource>examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleo
            <RequestId>NWUwNGEwMjRfZDcyNzVkNjRfNjZlM183Zjcx****</RequestId>
            <TraceId>OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODc0OWRkZjk0ZDM1NmI1M2
</Error>
```

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HEAD Object

Last updated：2024-06-12 15:10:38

Overview

This API is used to determine whether an object exists and whether you have permission to access it. You can use this API to get the object metadata if you can access it. To call this API, you need to have permission to read the object, or the object is set to public-read (i.e., everyone can read it).

Versioning

With versioning enabled, you can specify the `versionId` request parameter to get the metadata of an object of a specified version. If the version ID you specify corresponds to a delete marker, HTTP status code “404 (Not Found)” will be returned. If no version ID is specified, the metadata of the latest version will be returned.

Request

Sample request

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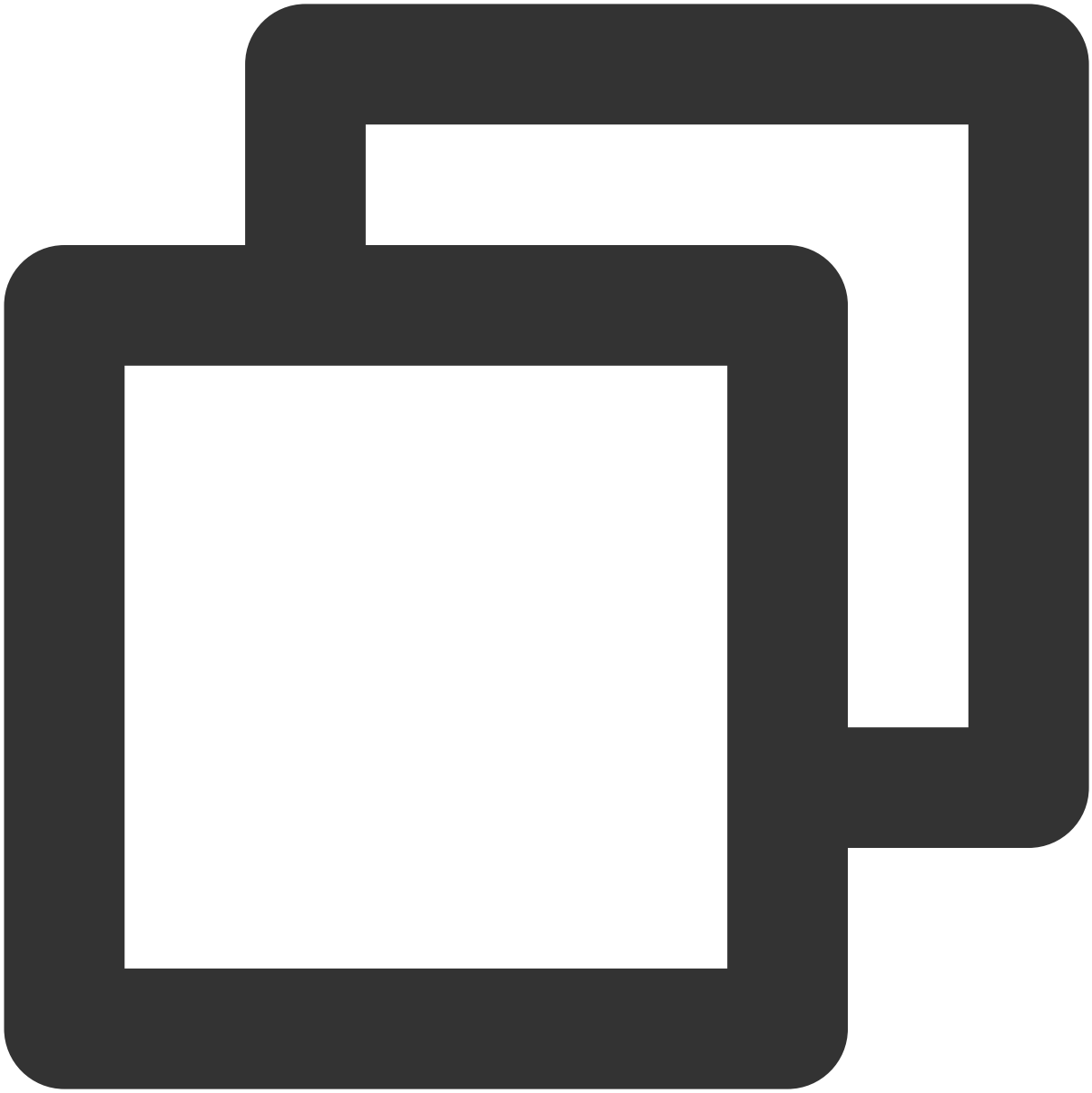

```
HEAD /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request parameters

Parameter	Description	Type	Required
versionId	Specifies the version ID of the object if versioning is enabled; if this parameter is not specified, the latest version will be queried	string	No

Request headers

In addition to common request headers, this API also supports the following request headers. For more information about common request headers, please see Common Request Headers.

Header	Description	Type	Required
If-Modified-Since	If the object is modified after the specified time, HTTP status code 200 (OK) will be returned. Otherwise, “304 (Not Modified)” will be returned.	string	No
If-Unmodified-Since	If the object is not modified after the specified time, HTTP status code 200 (OK) will be returned. Otherwise, “412 (Precondition Failed)” will be returned.	string	No
If-Match	If the `ETag` of the object is the same as the specified value, HTTP status code 200 (OK) will be returned. Otherwise, “412 (Precondition Failed)” will be returned.	string	No
If-None-Match	If the `ETag` of the object is different from the specified value, HTTP status code 200 (OK) will be returned. Otherwise, “304 (Not Modified)” will be returned.	string	No

Server-side encryption headers

If server-side encryption is used for the specified object and the encryption method is SSE-C, you will need to specify the headers related to server-side encryption to decrypt the object. For more information, see Server-side Encryption Headers.

Request body

This API does not have a request body.

Response

Response headers

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In addition to common response headers, this API also returns the following response headers. For more information about common response headers, please see Common Response Headers.

Header	Description	Type
Cache-Control	Cache directives as defined in RFC 2616, which will be returned only if it is contained in the object metadata	string
Content-Disposition	Filename as defined in RFC 2616, which will be returned only if it is contained in the object metadata	String
Content-Encoding	Encoding format as defined in RFC 2616, which will be returned only if it is contained in the object metadata	string
Expires	Cache expiration time as defined in RFC 2616, which will be returned only if it is contained in the object metadata	string
x-cos-meta-*	Contains user-defined metadata and header suffixes	string
x-cos-storage-class	Object storage class. For the enumerated values, such as `INTELLIGENT_TIERING`, `STANDARD_IA`, `ARCHIVE`, and `DEEP_ARCHIVE`, please see Storage Class Overview. Note that this header will be returned only if the object's storage class is not STANDARD.	enum
x-cos-storage-tier	Specifies the access tier of INTELLIGENT TIERING objects. Valid values: `FREQUENT`, `INFREQUENT`	enum

Archived object–related headers

If the storage class of the object is `ARCHIVE` and `POST Object restore` has been called to restore it, the following response headers will be returned:

Header	Description	Type
x-cos-restore	Indicates the status of the restoration process: If the restoration is ongoing, the value of the response header will be `ongoing-request="true"` If the object has already been restored, the response header will include the time when COS will delete the temporary copy, e.g., `ongoing-request="false", expiry-date="Tue, 19 Nov 2019 16:00:00 GMT"`	string
x-cos-restore-status	This parameter will be returned if the restoration is ongoing, indicating what restoration mode was used and when the restoration was requested, e.g., `tier="bulk"; request-date="Mon, 18 Nov 2019 09:34:50 GMT"`. For more information on restoration modes, see POST Object restore	string

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Versioning-related headers

If the target object is from a versioning-enabled bucket, the following response header will be returned:

Header	Description	Type
x-cos-version-id	Object version ID	string

Server-side encryption headers

If server-side encryption is used for the specified object, this API will return the server-side encryption headers. For more information, see Server-side Encryption Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Examples

Example 1: simple use case (with versioning disabled)

Request

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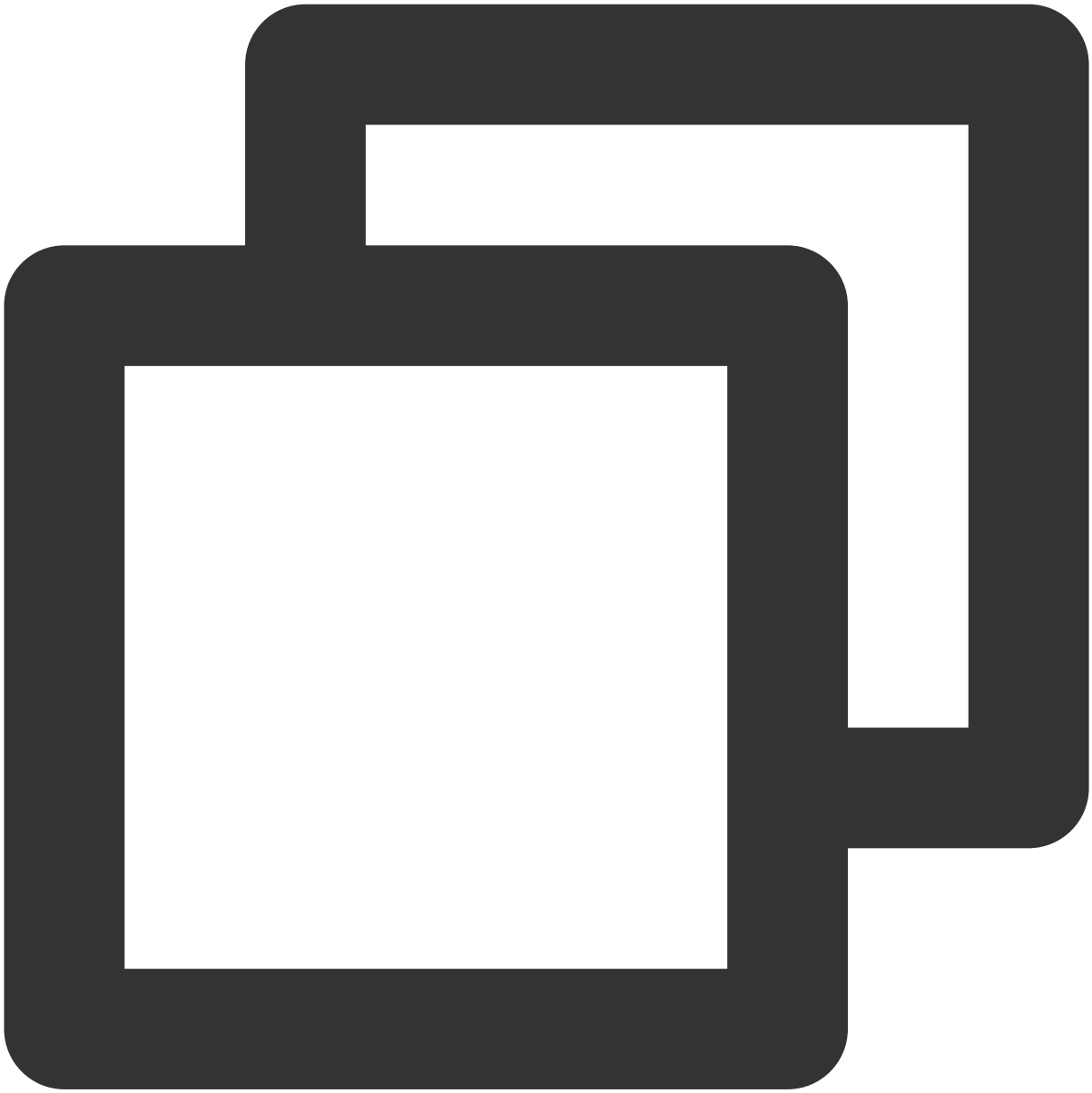

```
HEAD /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:17:36 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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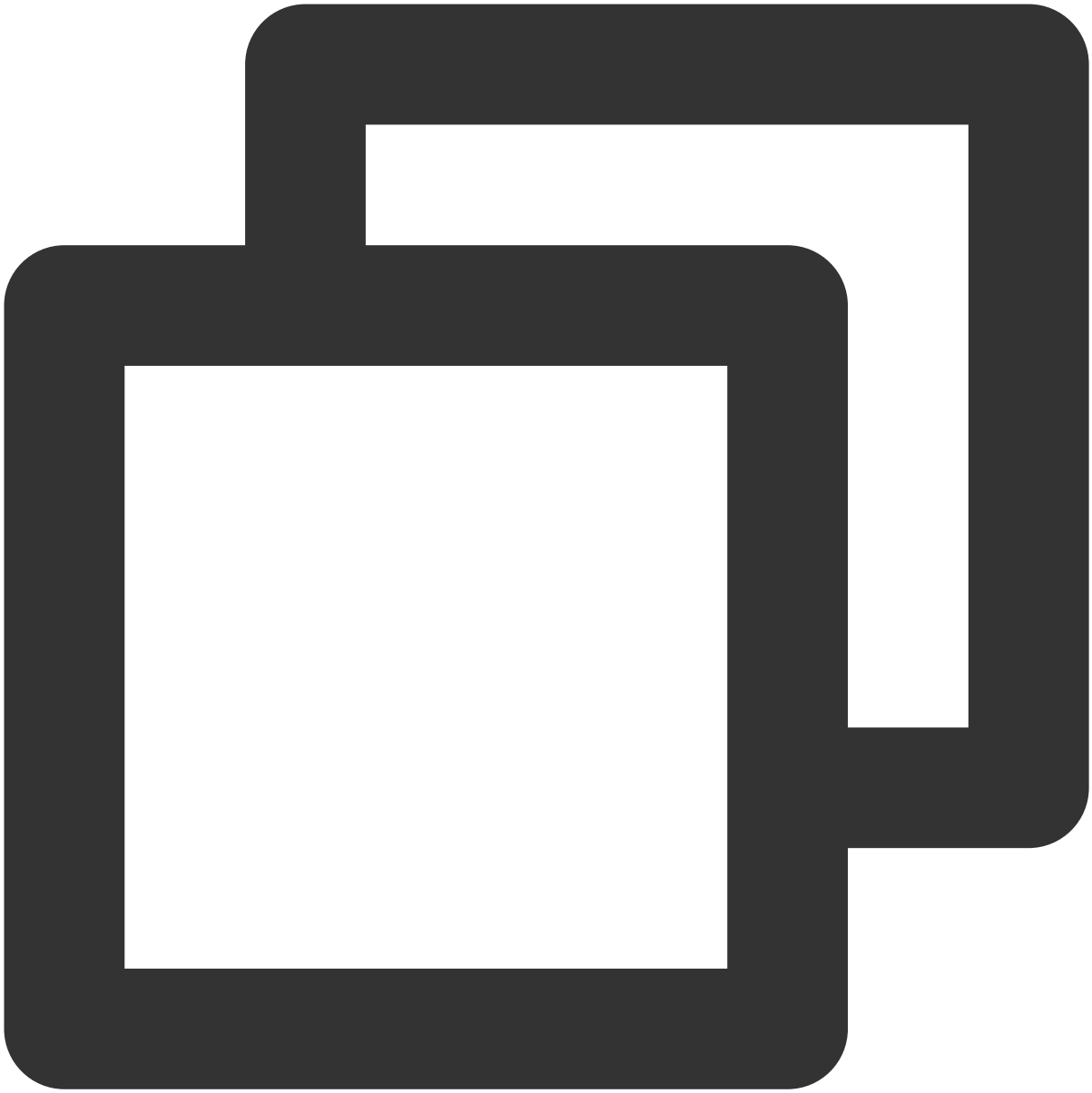

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Date: Fri, 10 Apr 2020 18:17:36 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Last-Modified: Fri, 10 Apr 2020 18:17:25 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MGI4NDBfNjFjODJhMDlfMzY2NjVfMjNi****
```

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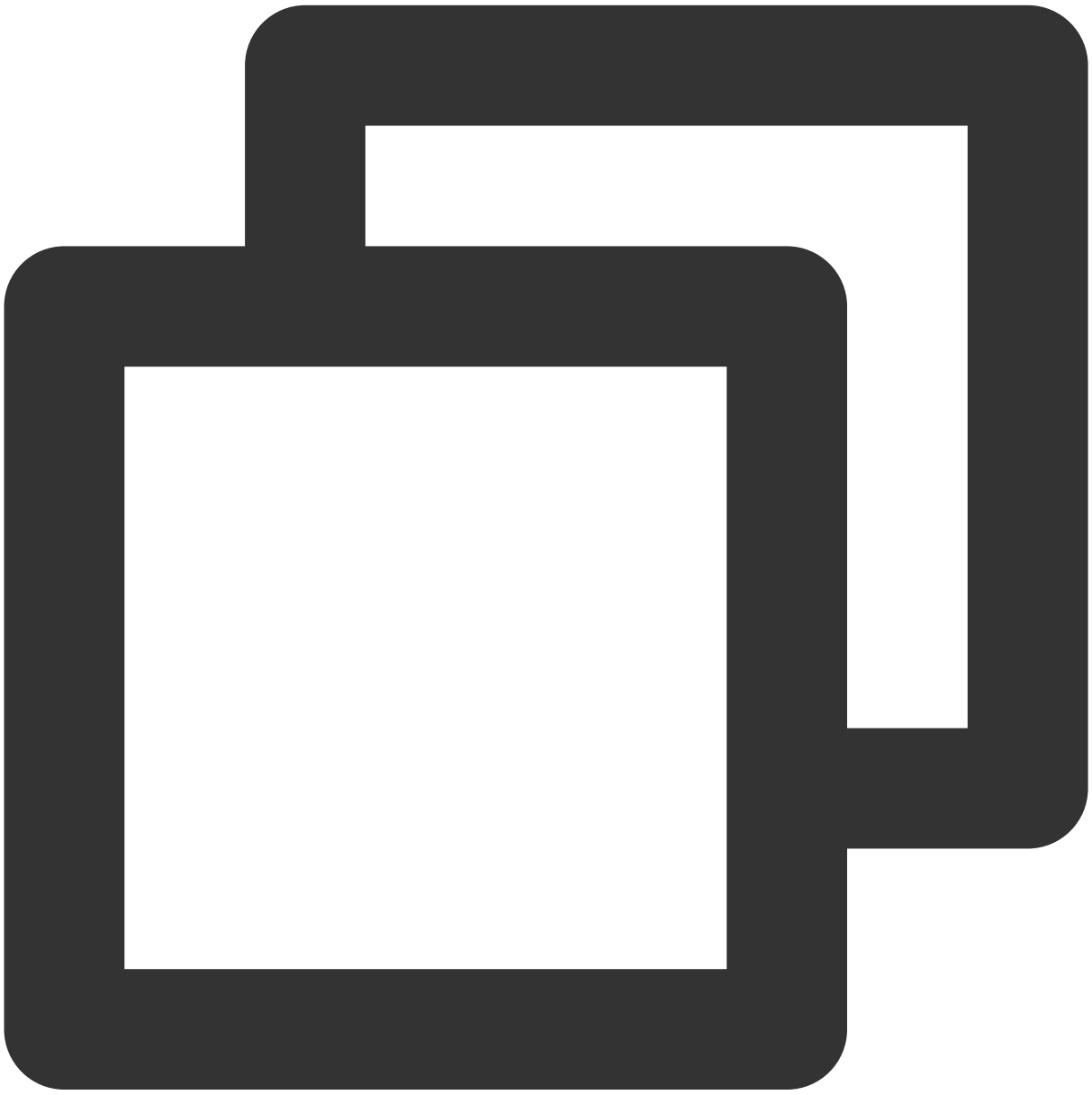
Example 2: specifying search criteria through the request headers with HTTP status code 304 (Not Modified) returned

Request



```
HEAD /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 29 Jul 2020 06:51:49 GMT
If-None-Match: "ee8de918d05640145b18f70f4c3aa602"
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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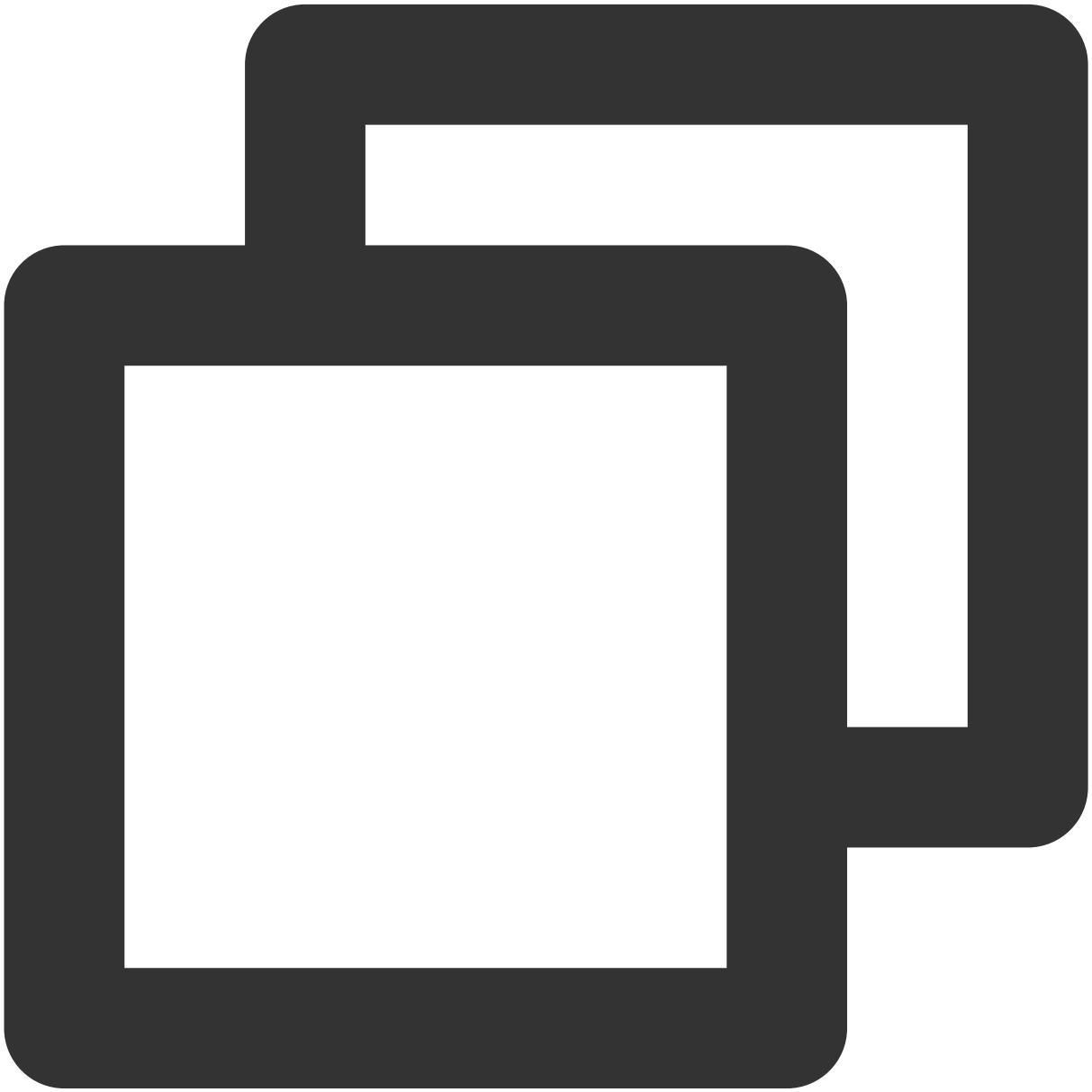
Response



```
HTTP/1.1 304 Not Modified
Content-Type: application/xml
Content-Length: 0
Connection: close
Date: Wed, 29 Jul 2020 06:51:49 GMT
Server: tencent-cos
x-cos-request-id: NWYyMTFjODVfZDNjODJhMDlfMWU1MWVfOTUy****
x-cos-trace-id: OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODczNTBmNjMwZmQ0MTZkMjg0Njl
```

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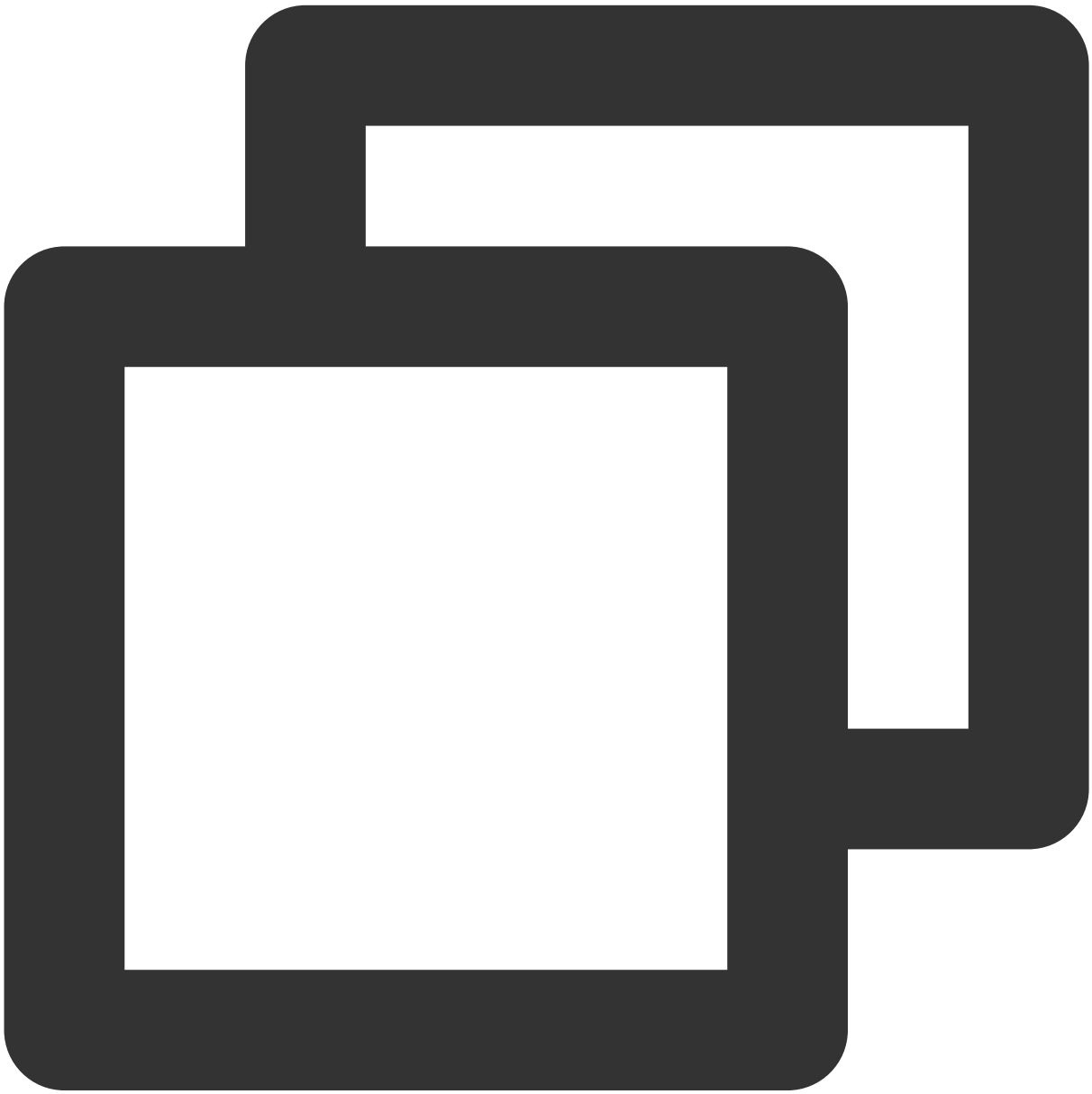
Example 3: specifying search criteria through the request header with HTTP status code 412 (Precondition Failed) returned

Request



```
HEAD /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 29 Jul 2020 06:51:50 GMT
If-Match: "aa488bb80185a6be87f4a7b936a80752"
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
```

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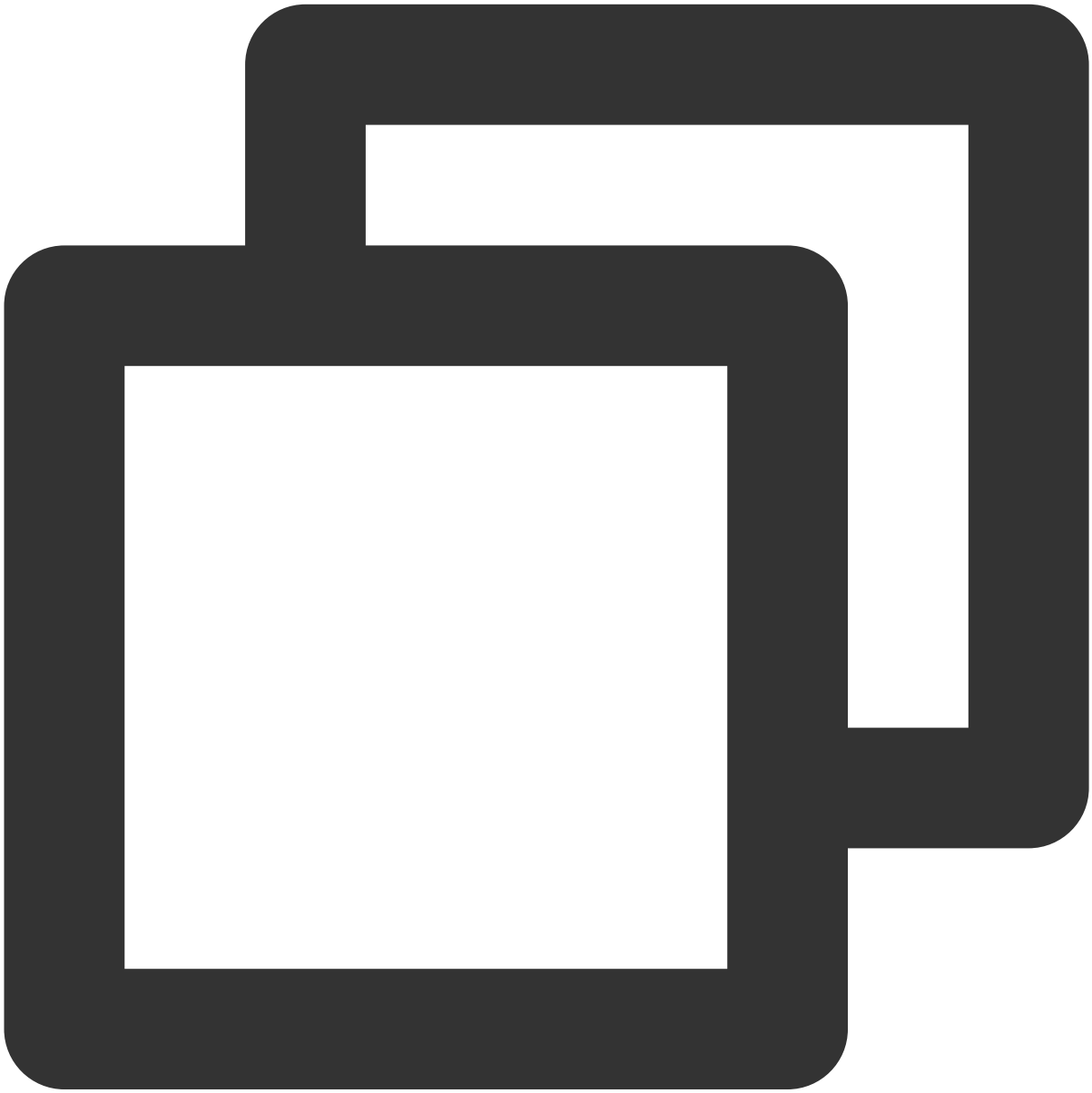
```
Connection: close
```

Response



```
HTTP/1.1 412 Precondition Failed
Content-Type: application/xml
Content-Length: 0
Connection: close
Date: Wed, 29 Jul 2020 06:51:50 GMT
Server: tencent-cos
x-cos-request-id: NWYyMTFjODZfMzBjMDJhMDlfMmU3ZF9kYTE4****
```

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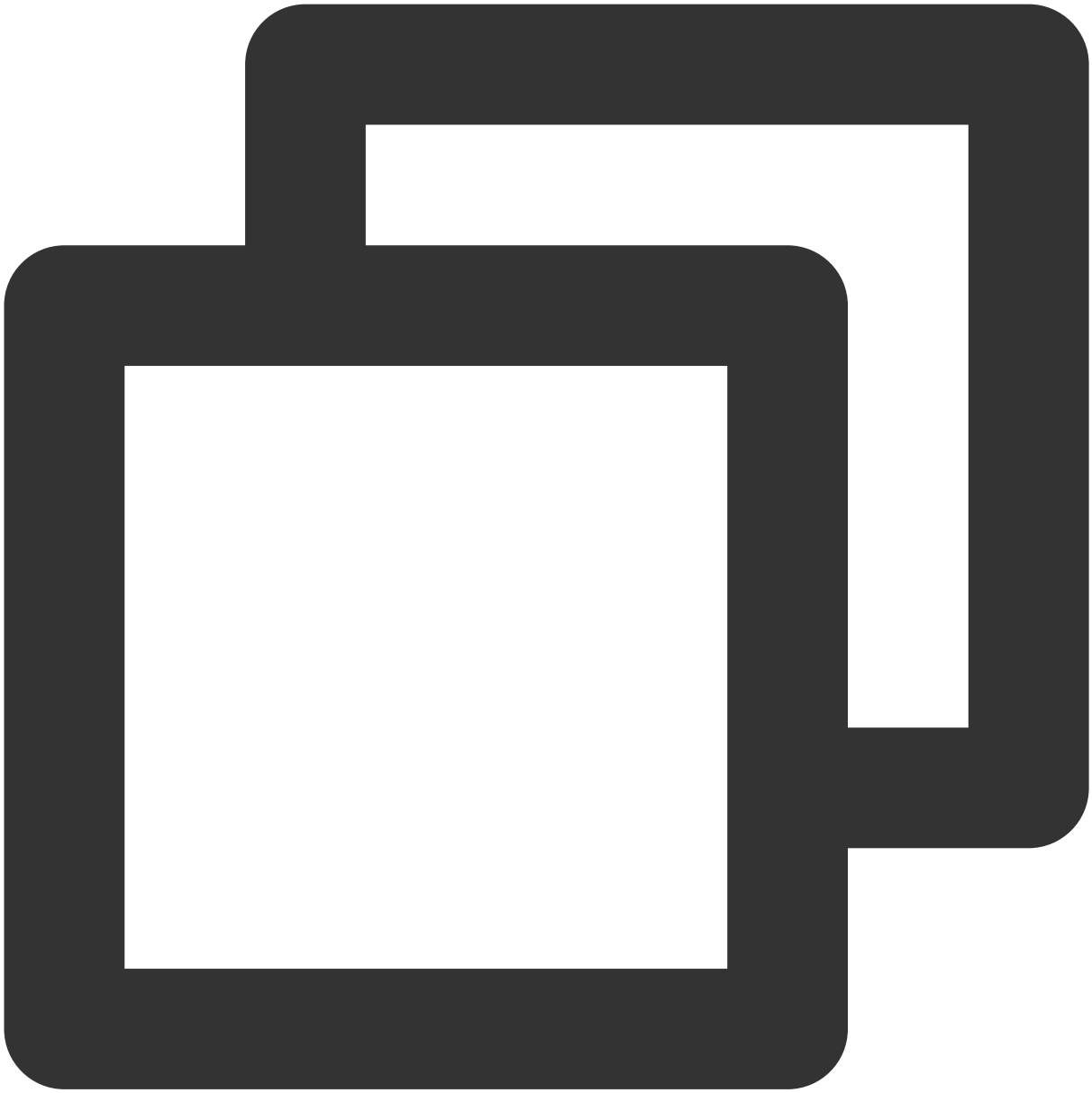
```
x-cos-trace-id: OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODczNTBmNjMwZmQ0MTZkMjg0Njl
```

Example 4: using server-side encryption SSE-COS

Request



```
HEAD /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:18:19 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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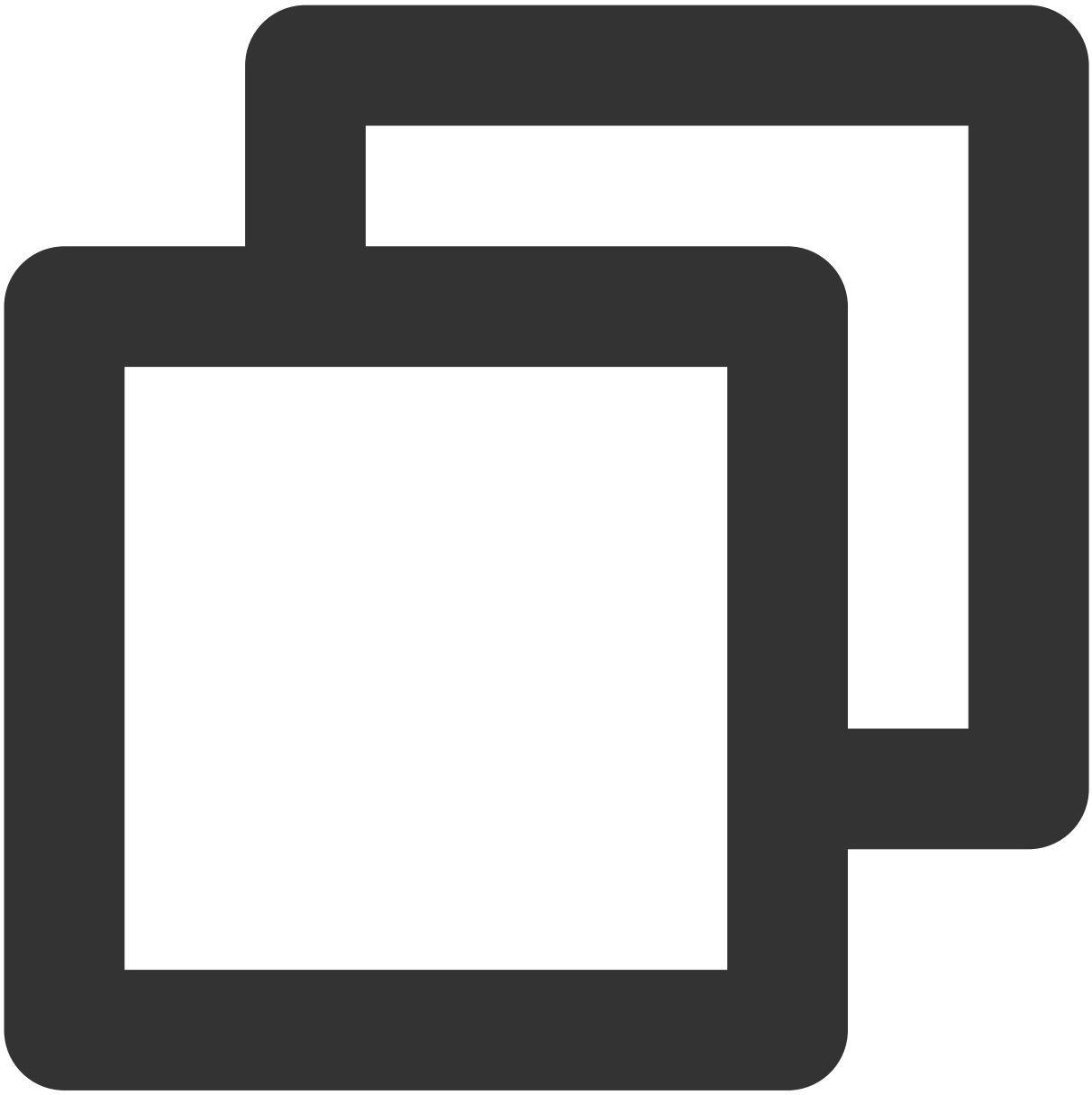
Response



```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Date: Fri, 10 Apr 2020 18:18:19 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Last-Modified: Fri, 10 Apr 2020 18:18:08 GMT
Server: tencent-cos
```

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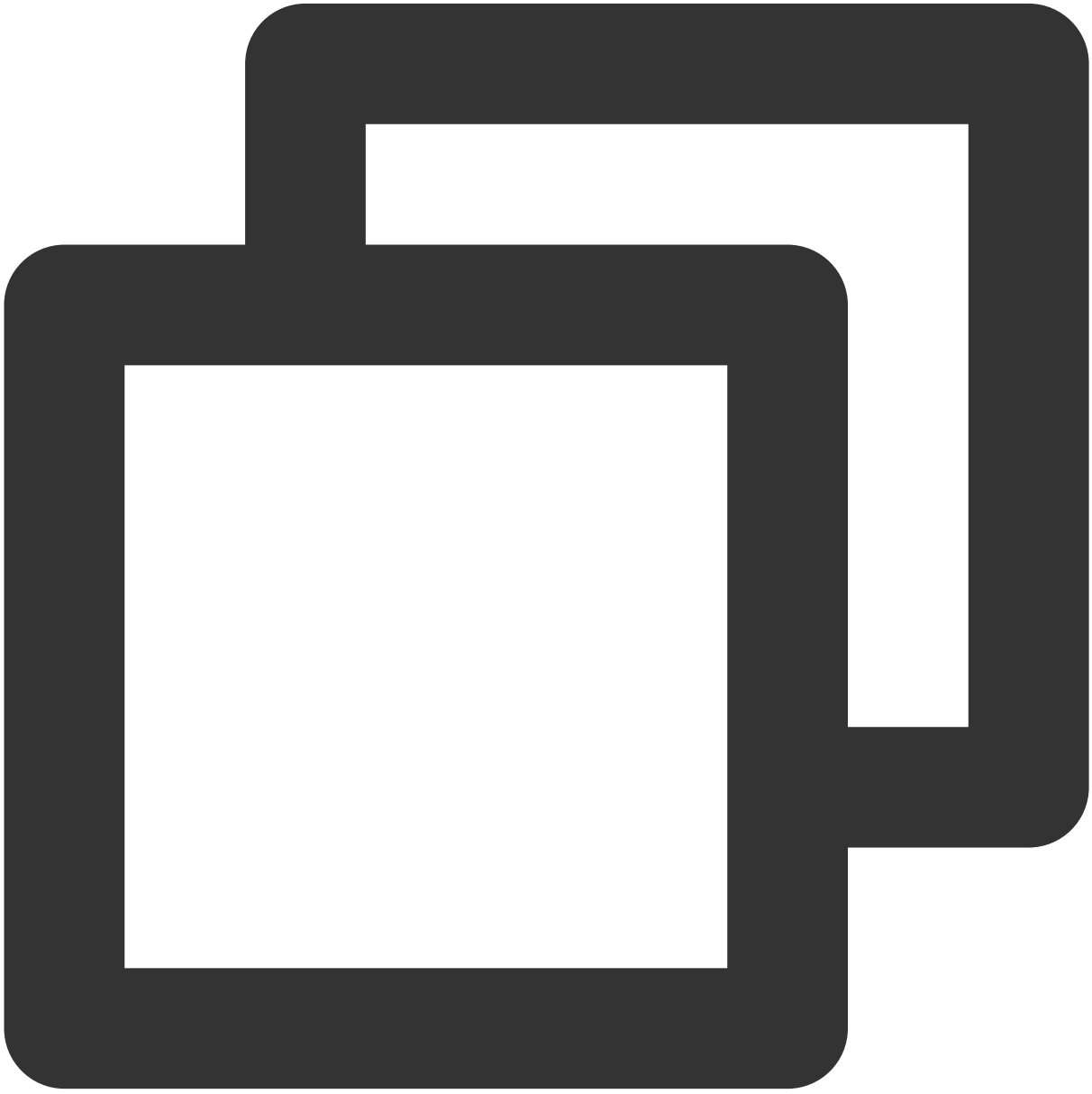
```
x-cos-hash-crc64ecma: 16749656679157681890
x-cos-request-id: NWU5MGI4NmJfNmRjMDJhMDlfZGQwNl8xZmE4****
x-cos-server-side-encryption: AES256
```

Example 5: using server-side encryption SSE-KMS

Request



```
HEAD /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:18:30 GMT
```

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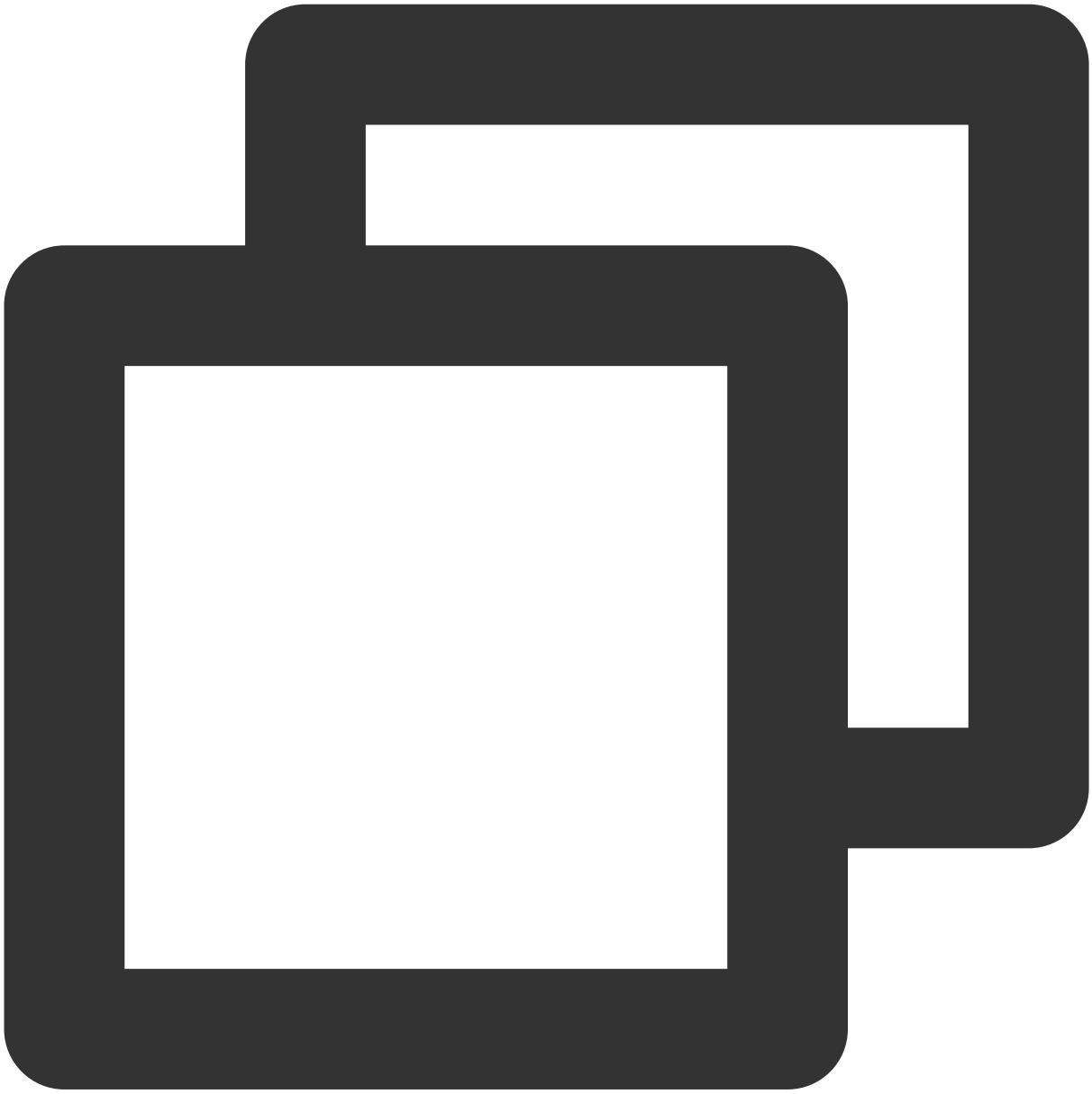
```
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Date: Fri, 10 Apr 2020 18:18:30 GMT
ETag: "00ca268468481b847fc2d8a9bd84578d"
```

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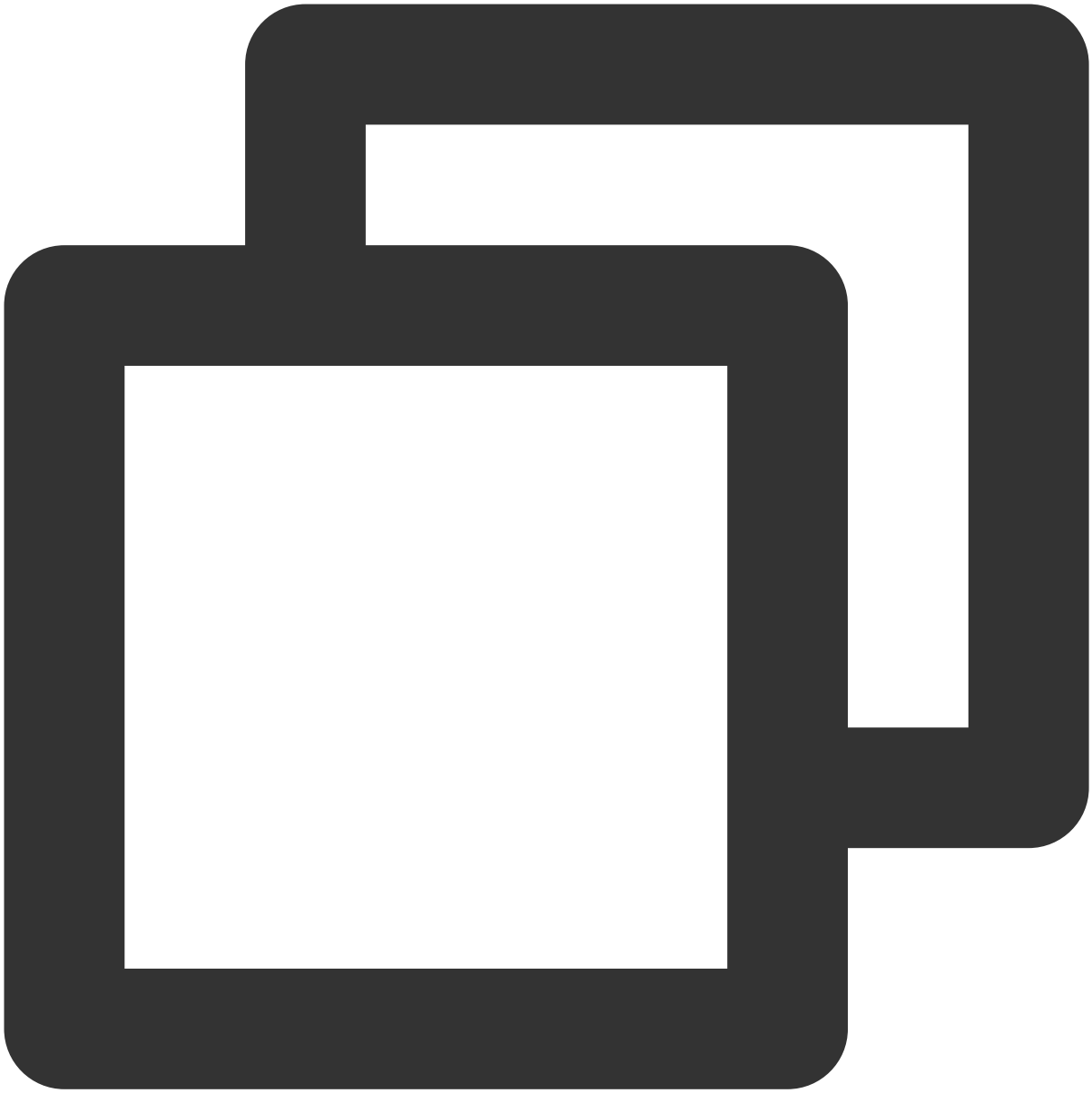
```
Last-Modified: Fri, 10 Apr 2020 18:18:19 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MGI4NzZfN2FjODJhMDlfMjU3N18xYTEz****
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
```

Example 6: using server-side encryption SSE-C

Request



```
HEAD /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:18:41 GMT
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key: MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNE
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG****
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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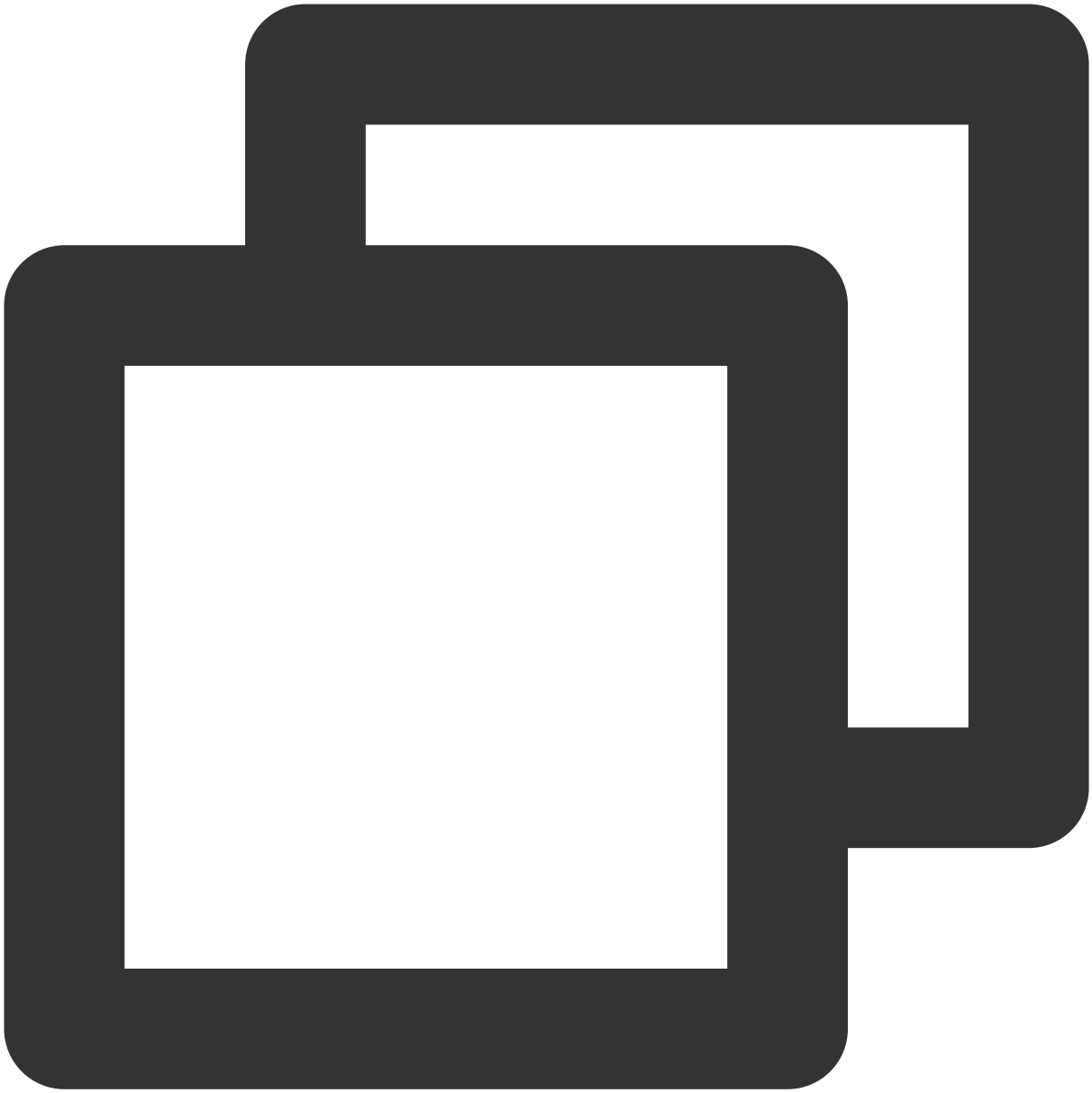

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Date: Fri, 10 Apr 2020 18:18:41 GMT
ETag: "582d9105f71525f3c161984bc005efb5"
Last-Modified: Fri, 10 Apr 2020 18:18:31 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MGI4ODFfN2NiODJhMDlfMmFmYTVfMWRh****
x-cos-server-side-encryption-customer-algorithm: AES256
```

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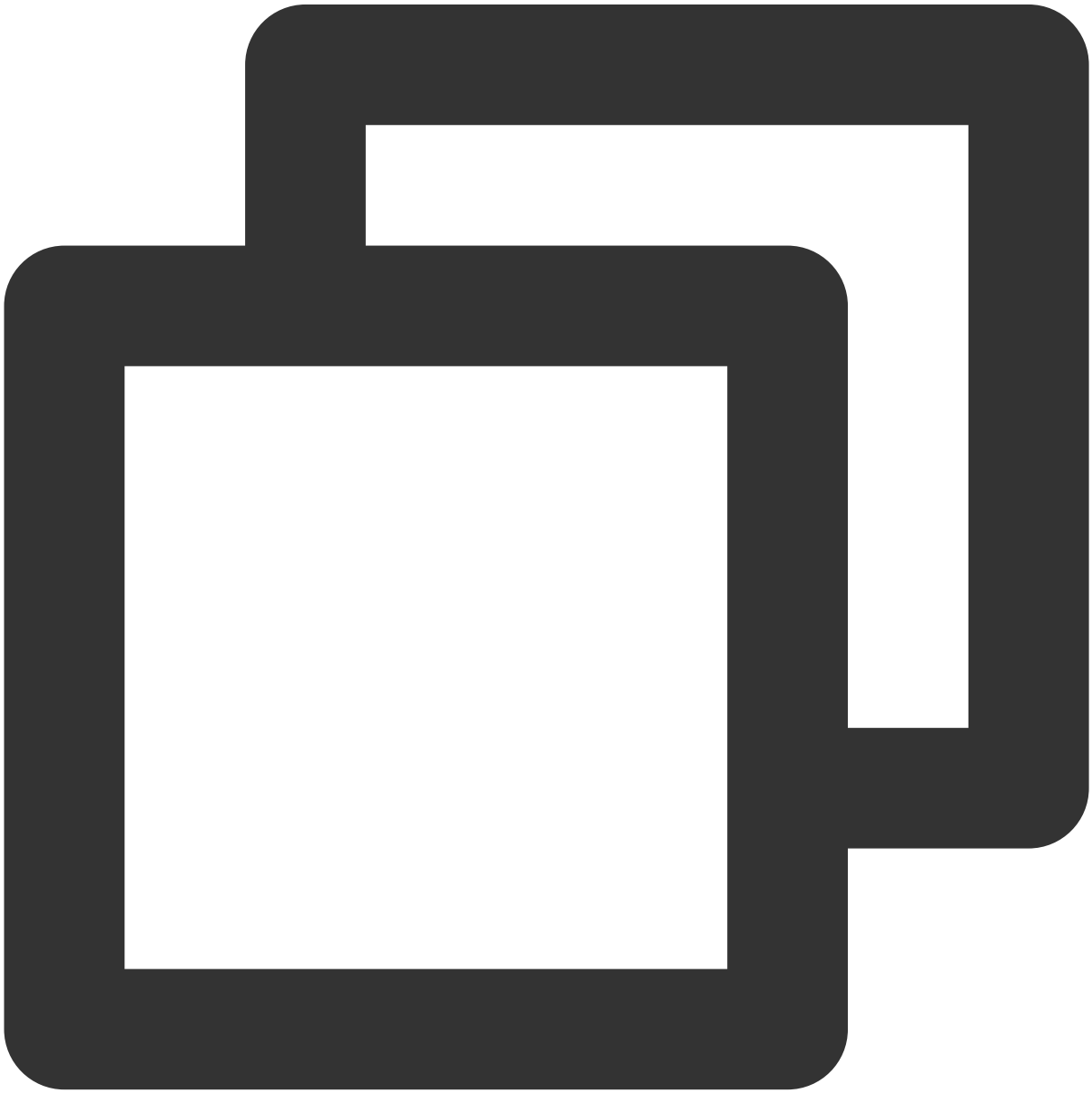
```
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG****
```

Example 7: requesting the latest version of an object (with versioning enabled)

Request



```
HEAD /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:19:15 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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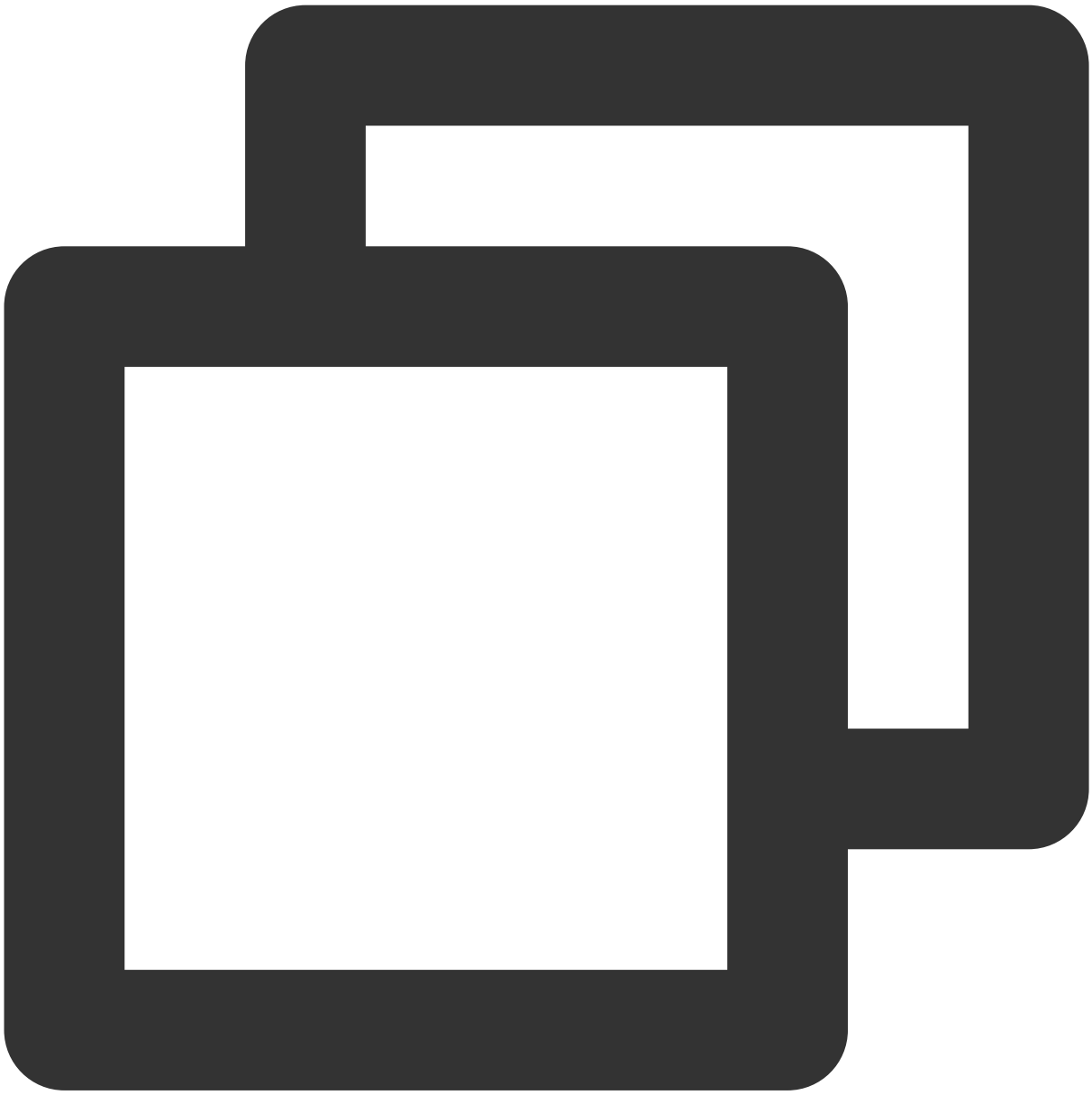
Response



```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 26
Connection: close
Date: Fri, 10 Apr 2020 18:19:15 GMT
ETag: "22e024392de860289f0baa7d6cf8a549"
Last-Modified: Fri, 10 Apr 2020 18:19:04 GMT
Server: tencent-cos
```

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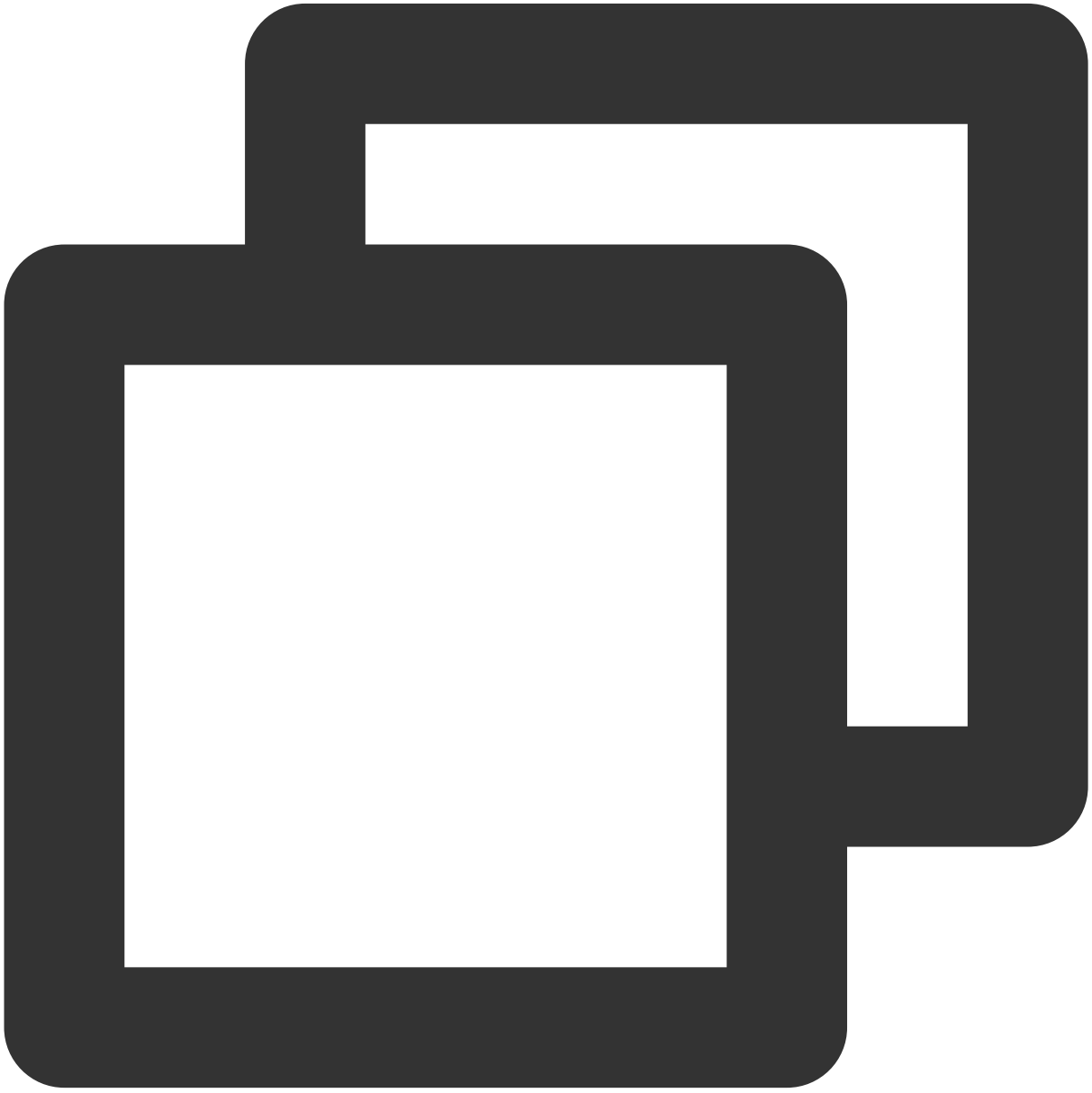
```
x-cos-hash-crc64ecma: 11596229263574363878
x-cos-request-id: NWU5MGI4YTNfZDZjODJhMDlfYmU0MV8xM2Y5****
x-cos-version-id: MTg0NDUxNTc1MzA5NjQ2ODI5MTg
```

Example 8: requesting a specific version of an object (with versioning enabled)

Request



```
HEAD /exampleobject?versionId=MTg0NDUxNTc1MzA5NzU4ODg1Mjg HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Apr 2020 18:19:04 GMT
```

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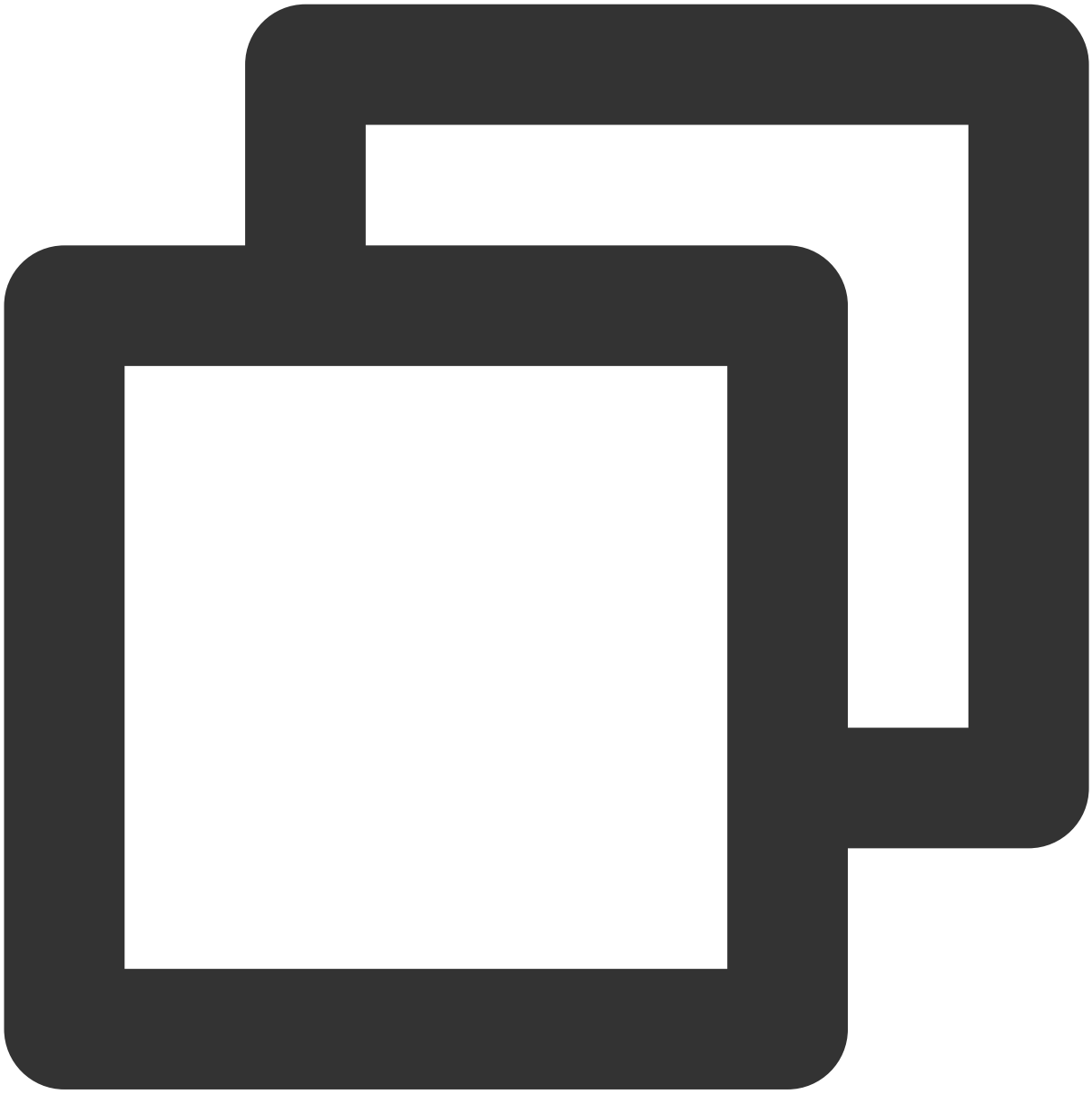
```
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Date: Fri, 10 Apr 2020 18:19:04 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
```

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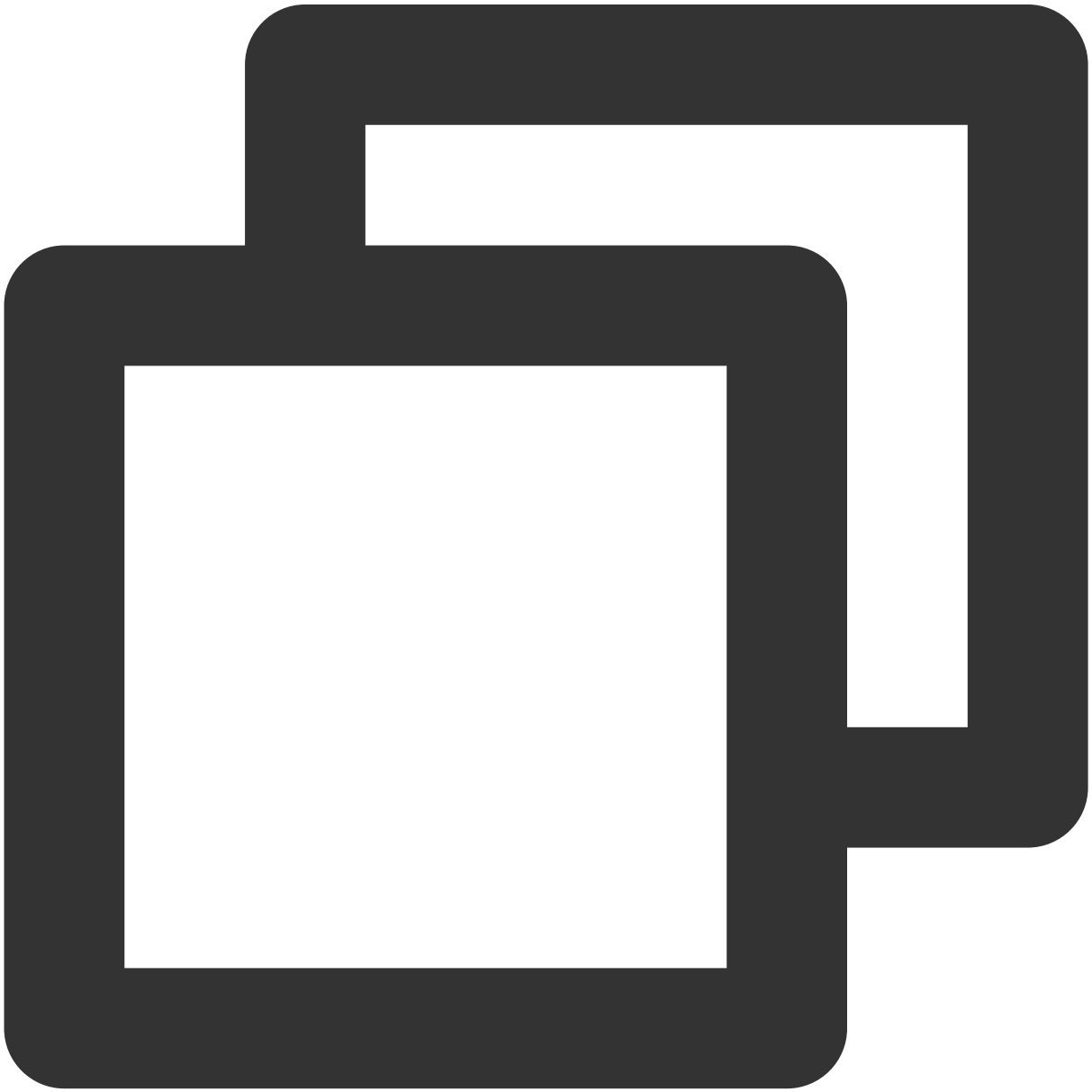
```
Last-Modified: Fri, 10 Apr 2020 18:18:53 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MGI4OThfN2RiNDBiMDlfMTk1MTBfMWZj****
x-cos-version-id: MTg0NDUxNTc1MzA5NzU4ODg1Mjg
```

Example 9: requesting an archived object that is being restored

Request



```
HEAD /exampleobject HTTP/1.1
```

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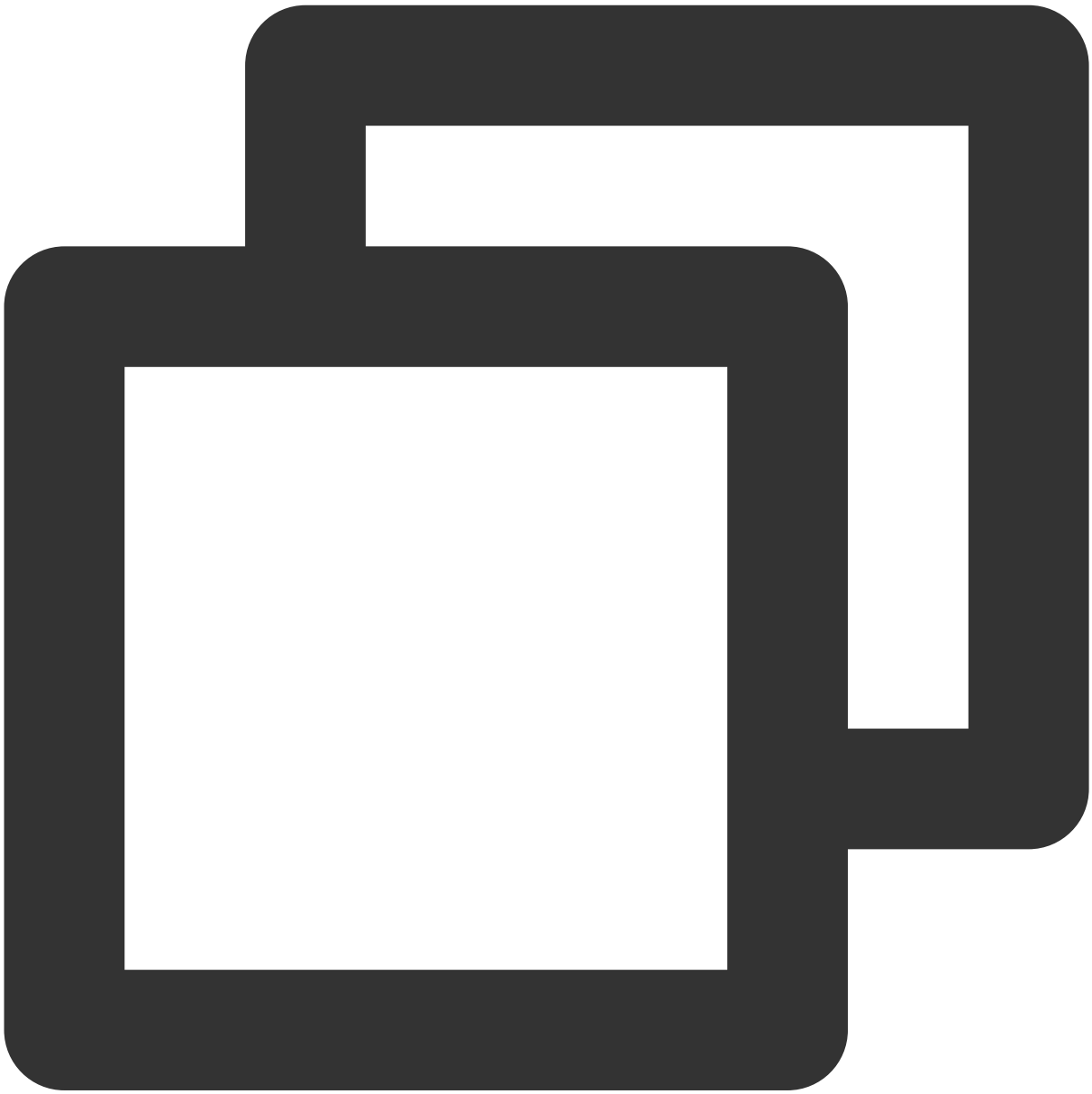
```
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 27 Dec 2019 08:19:35 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 13
Connection: close
```

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```
Date: Fri, 27 Dec 2019 08:19:35 GMT
ETag: "b62e10bcab55a88240bd9c436cffdcf9"
Last-Modified: Fri, 27 Dec 2019 08:19:23 GMT
Server: tencent-cos
x-cos-request-id: NWUwNWJlOTdfN2VjODJhMDlfOGI1N18yYjYz****
x-cos-restore: ongoing-request="true"
x-cos-restore-status: tier="expedited"; request-date="Fri, 27 Dec 2019 08:19:29 GMT
x-cos-storage-class: ARCHIVE
```

Example 10: requesting an archived object which has been restored

Request

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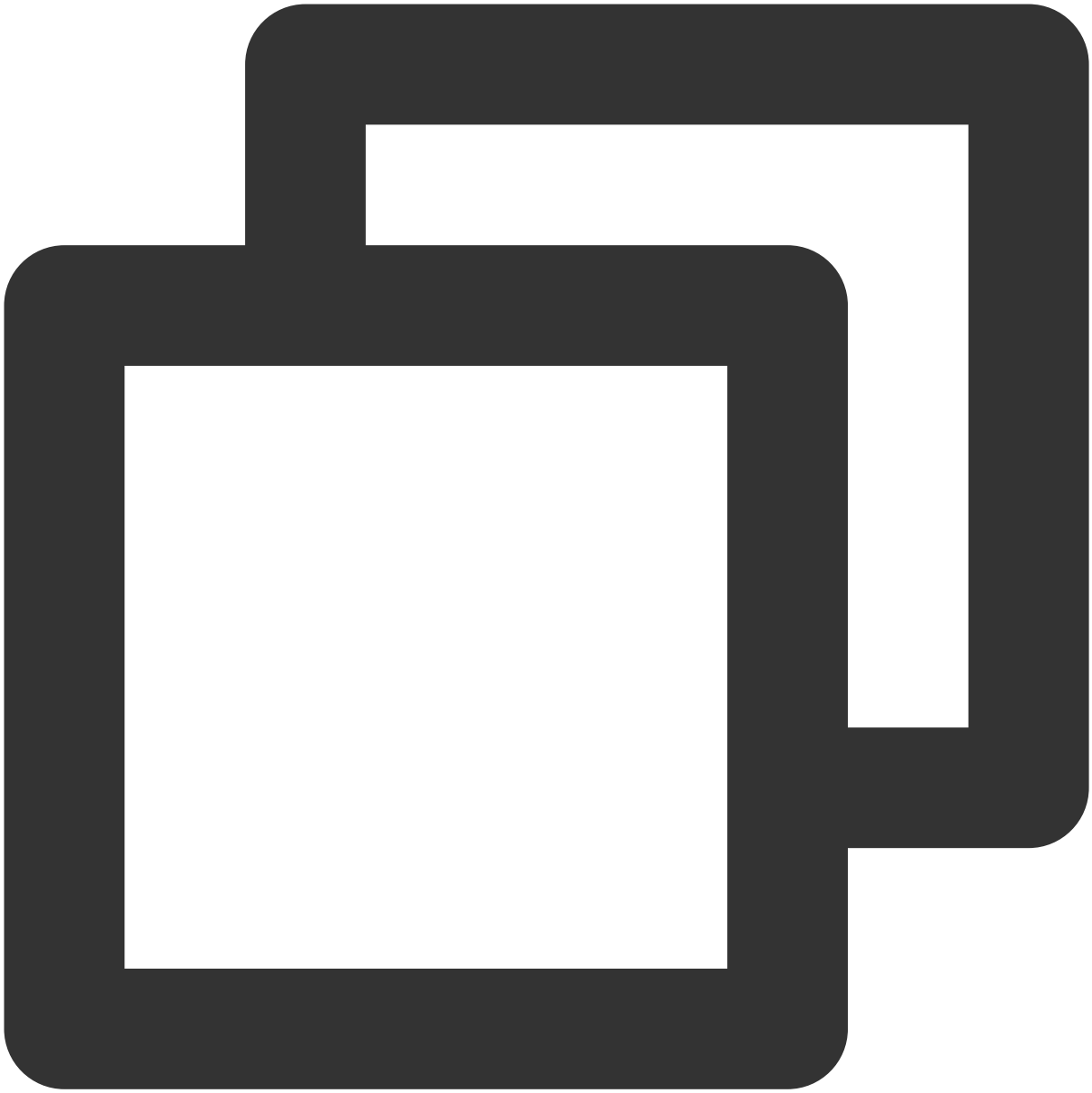

```
HEAD /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 02 Jan 2020 18:09:51 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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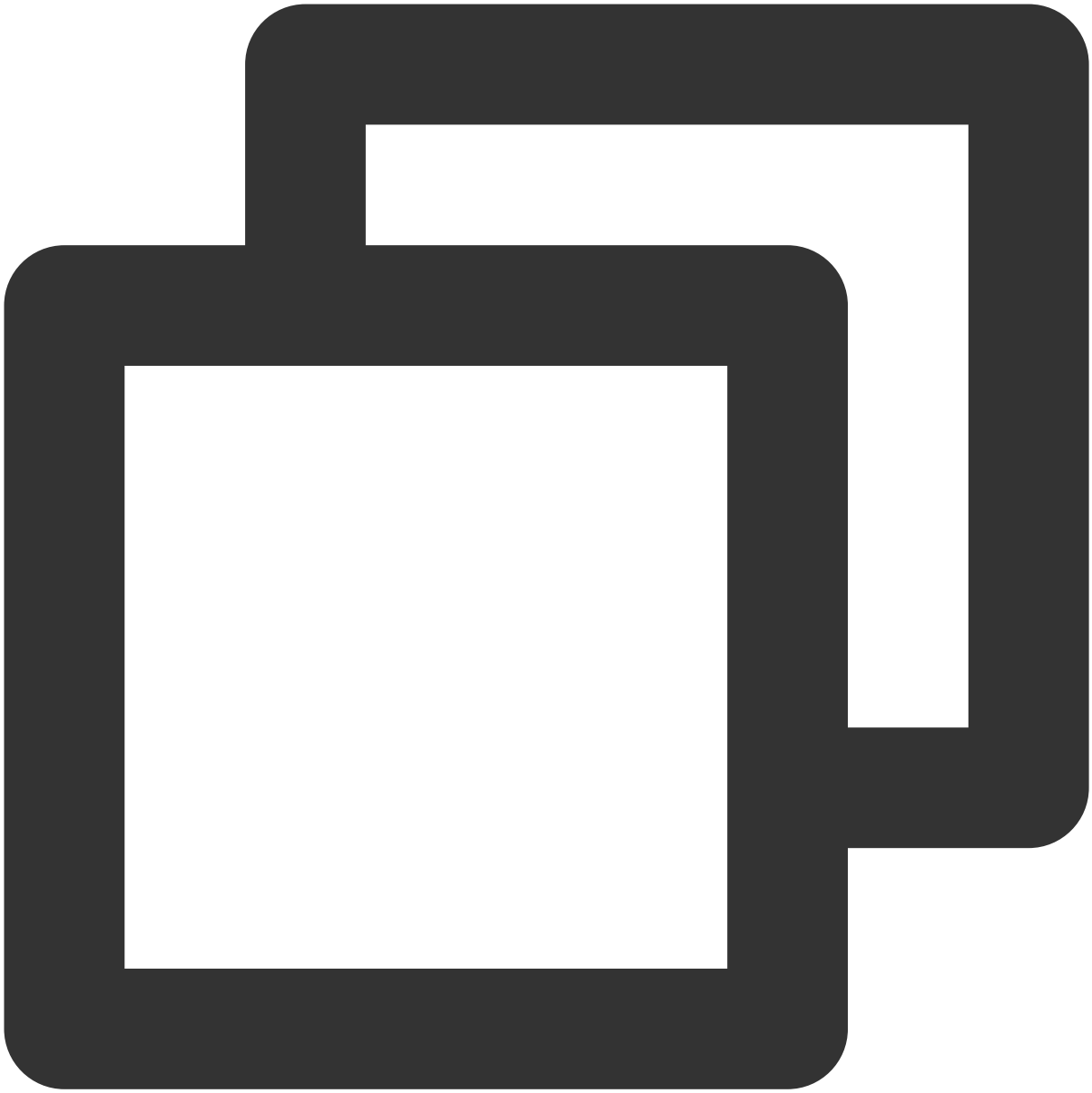

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 16
Connection: close
Date: Fri, 10 Apr 2020 18:17:36 GMT
ETag: "ee8de918d05640145b18f70f4c3aa602"
Last-Modified: Fri, 10 Apr 2020 18:17:25 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 16749565679157681890
x-cos-request-id: NWU5MWRiZjFfMmViMDJhMDlfNjIwOF8zNTU0****
x-cos-restore: ongoing-request="false", expiry-date="Mon, 13 Apr 2020 16:00:00 GMT"
```

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```
x-cos-storage-class: ARCHIVE
```

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DELETE Object

Last updated：2024-06-12 15:10:38

Overview

This API is used to delete a specified object. To call this API, you need to have permission to write to the object.

Versioning

To delete a specified version of object/delete marker, use the `versionId` request parameter to specify the ID of the object version/delete marker. In this way, the `x-cos-version-id` response header will be returned, indicating the version ID deleted.
If `versionId` is not specified:
When versioning is enabled, the `DELETE` operation will create the latest version of delete marker for this object, and the `x-cos-version-id` response header will be returned to indicate the version ID of the delete marker created in this request.
When versioning is suspended, the `DELETE` operation will create a delete marker whose ID is `null` as the latest version of the object, and all other versions whose ID is `null` (if any) will be deleted.
If the `DELETE` operation has successfully created/deleted a delete marker, the `x-cos-delete-marker: true` response header will be returned.
For more information about the status (enabled/suspended) of versioning, please see Versioning Overview.

Request

Sample request

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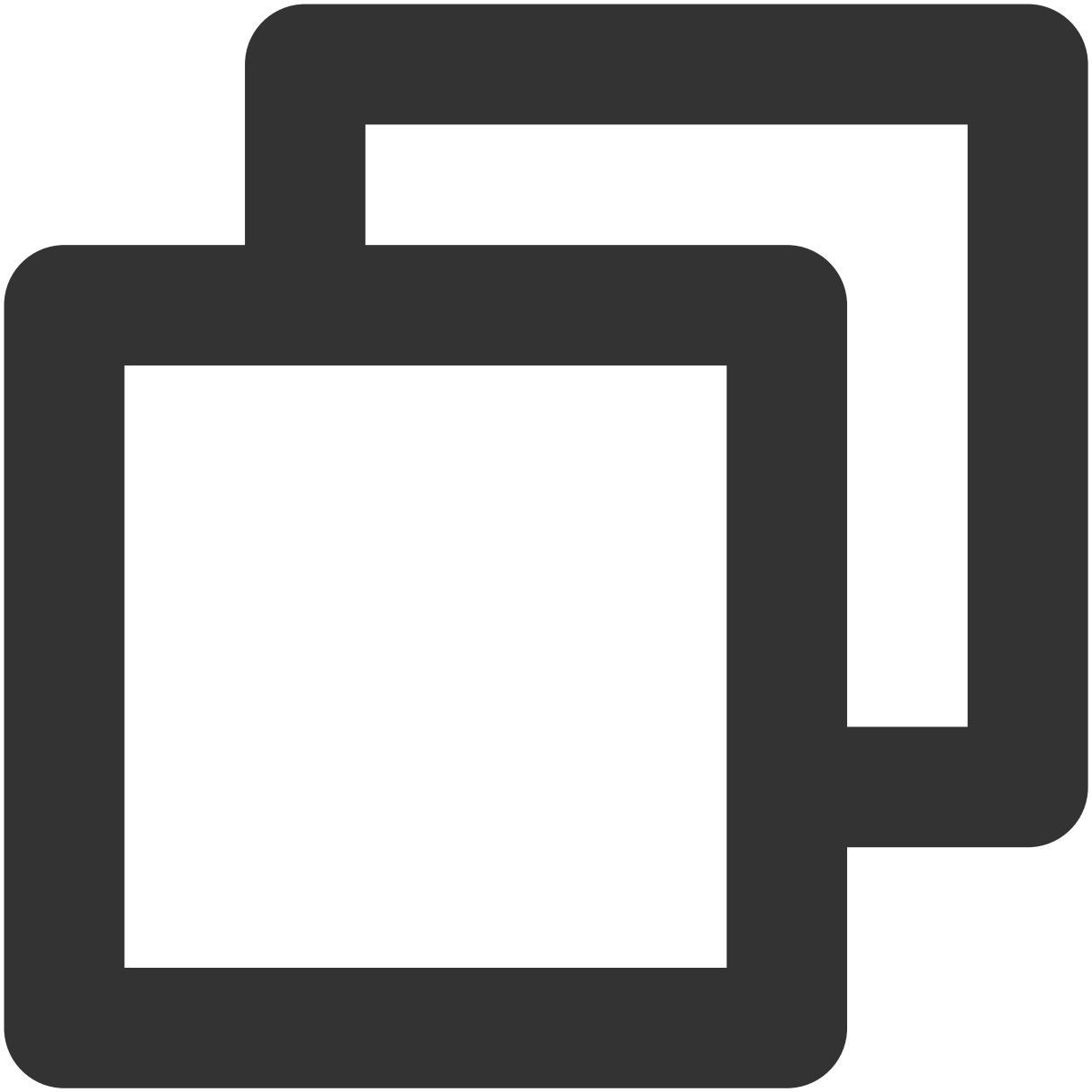

```
DELETE /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Request parameters

Parameter	Description	Type	Required

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versionId	ID of an object version to delete	string	No

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

In addition to common response headers, this API also returns the following response headers. For more information about common response headers, please see Common Response Headers.

Versioning-related headers

If you delete an object or a specified version of object from a versioning-enabled bucket, the following response headers will be returned:

Parameter	Description	Type
x-cos-version-id	ID of the object version/delete marker	string
x-cos-delete-marker	If `versionId` is specified, the value of this parameter will be `true`, indicating that the deleted version of object corresponds to a delete marker. If `versionId` is not specified, and the specified object resides in a versioning-enabled bucket, the value of this parameter will be `true`, indicating that this request has created the latest version of delete marker for this object.	boolean

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Sample 1: versioning not enabled

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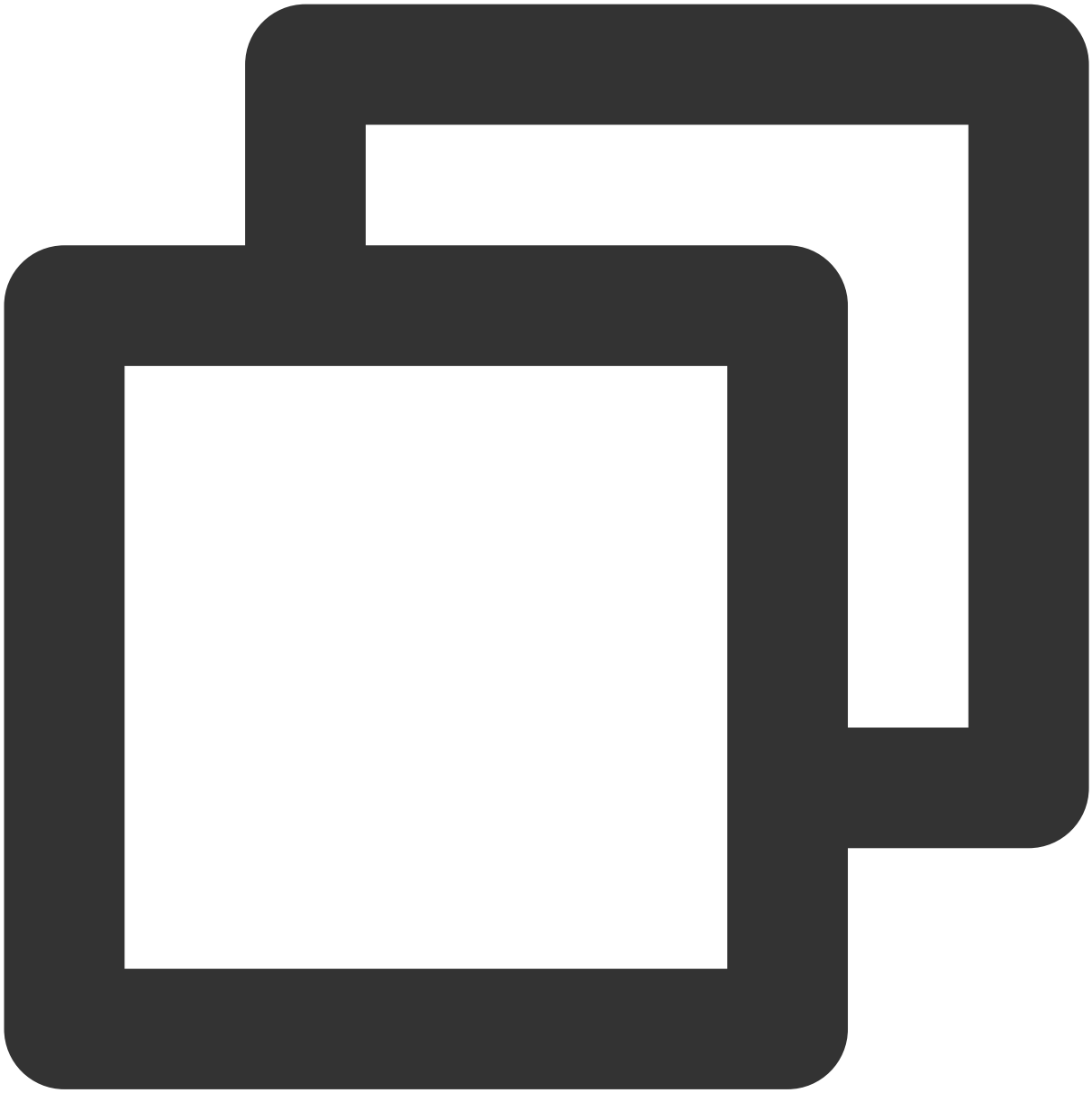
Request



```
DELETE /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 14 Aug 2019 11:59:40 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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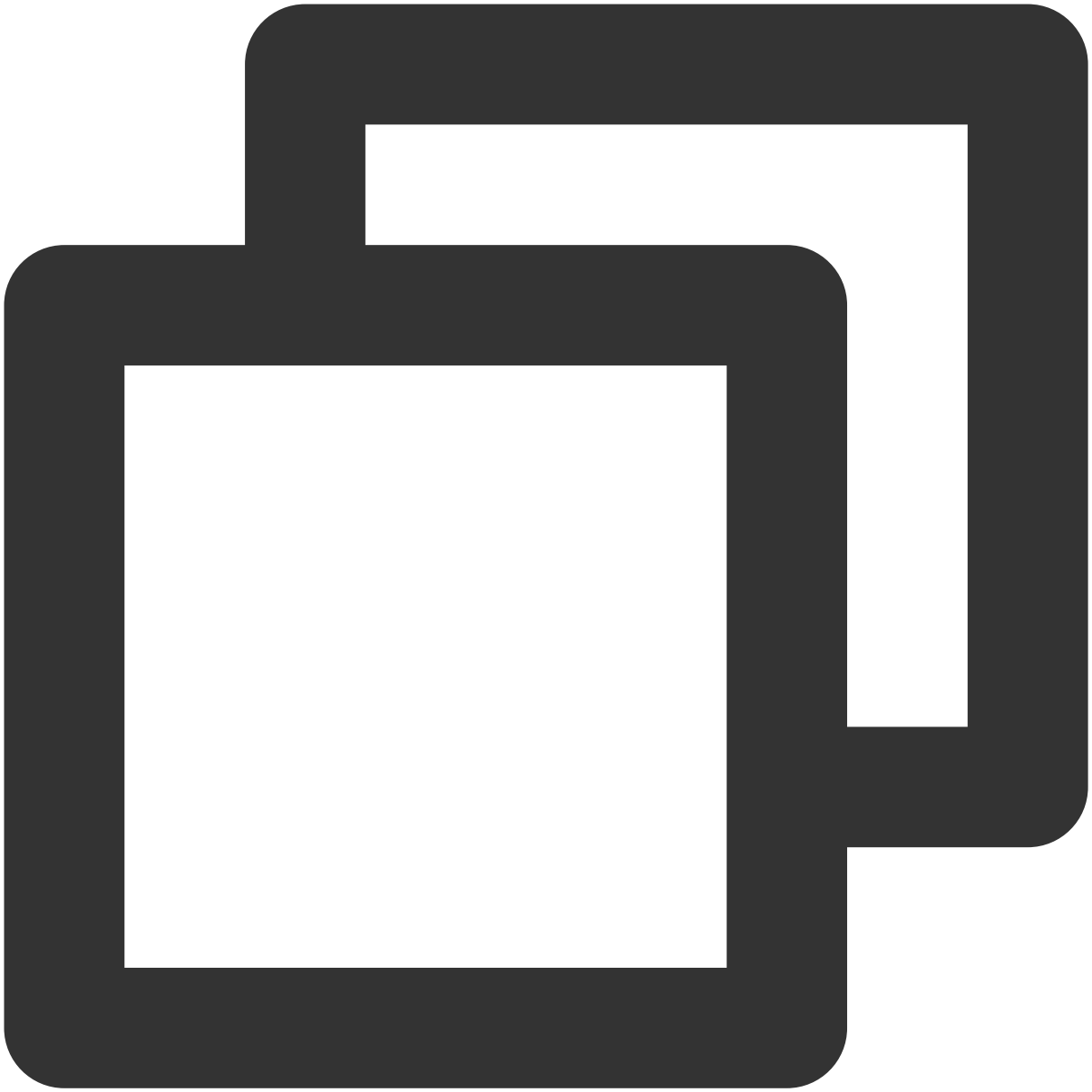

```
HTTP/1.1 204 No Content
Content-Length: 0
Connection: close
Date: Wed, 14 Aug 2019 11:59:40 GMT
Server: tencent-cos
x-cos-request-id: NWQ1M2Y3YWNfMzdiMDJhMDlfODA1Yl8xZThj****
```

Sample 2: versioning-enabled (creating a delete marker)

Request

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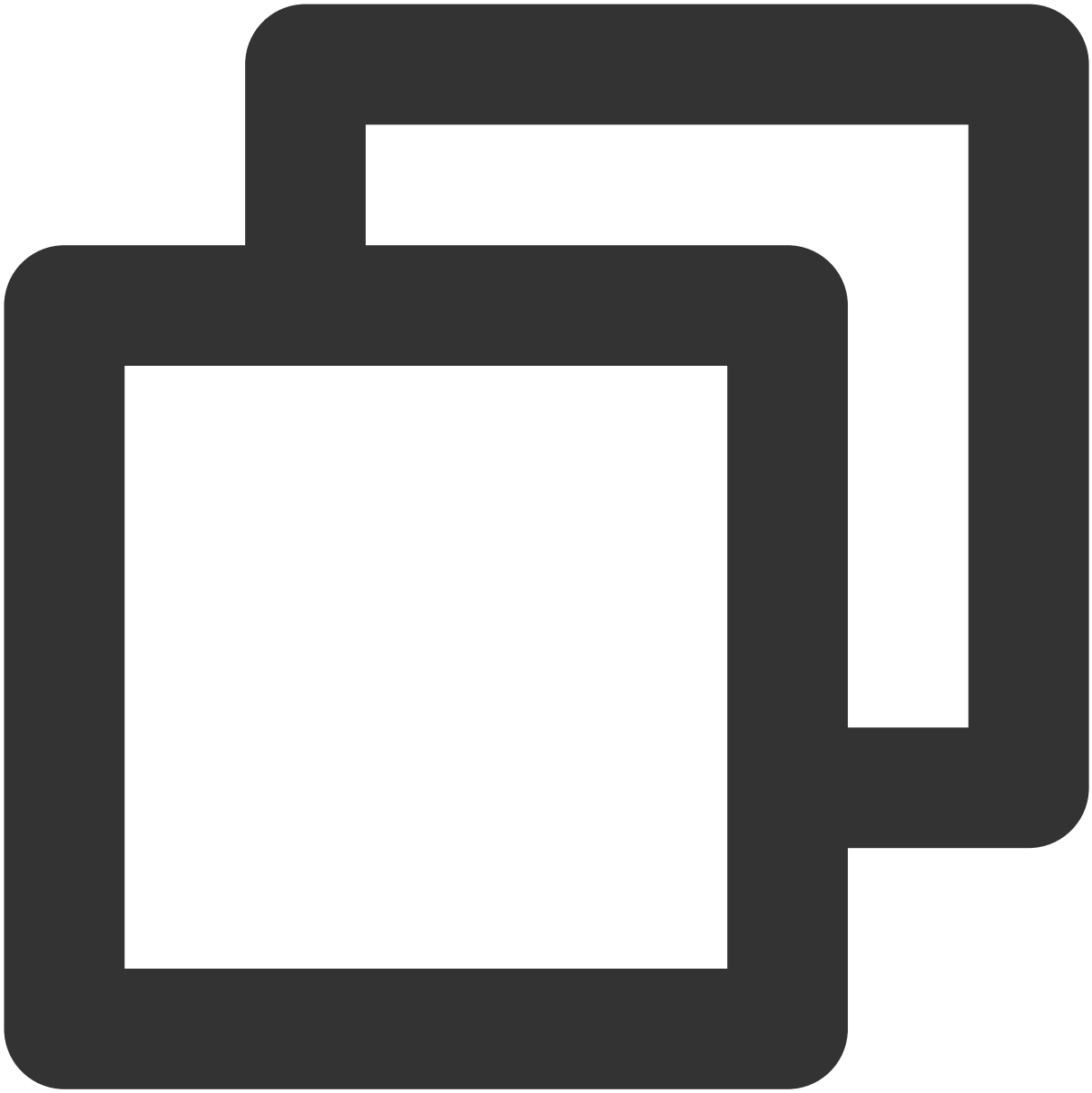

```
DELETE /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 14 Aug 2019 12:00:21 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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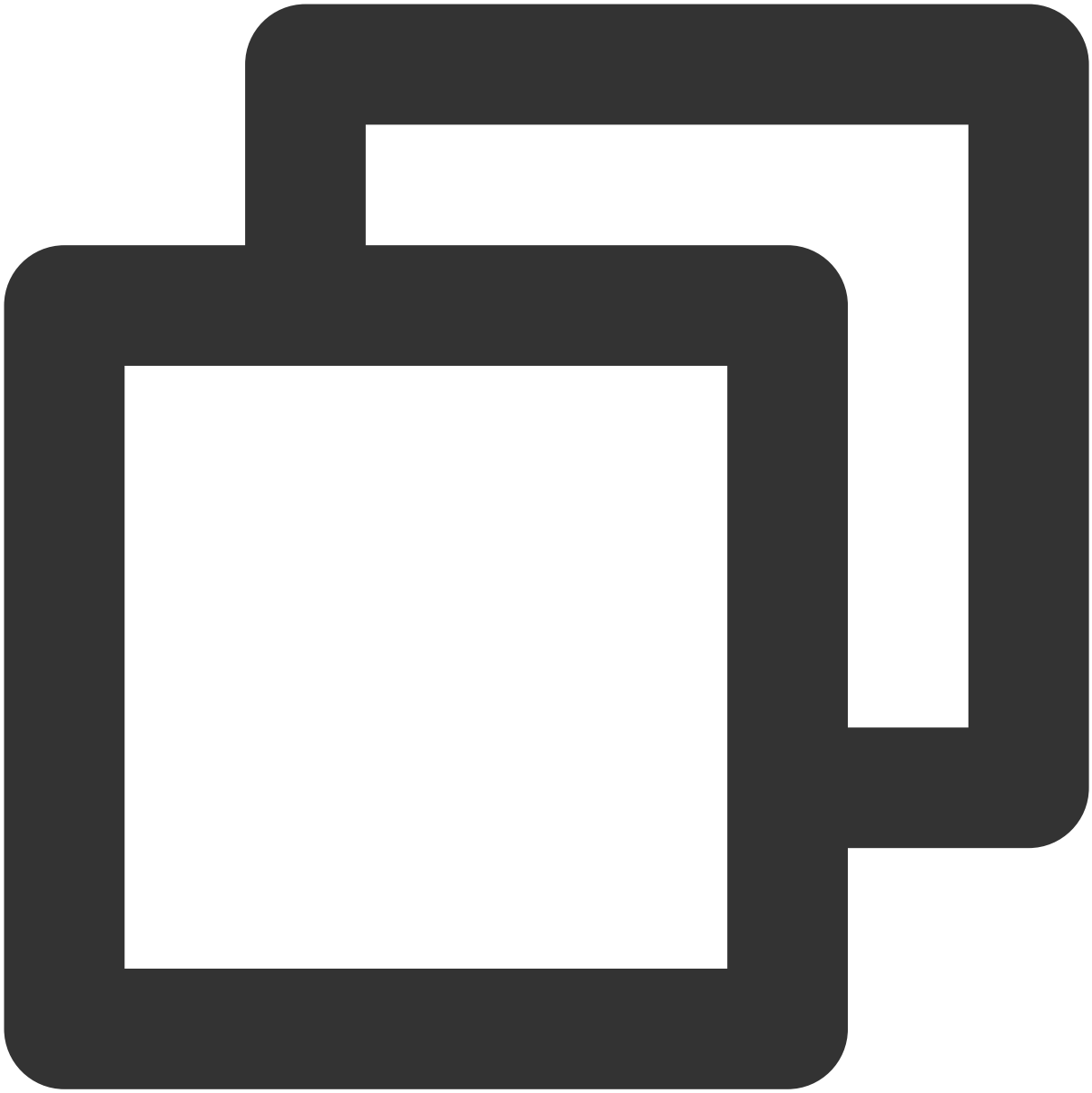

```
HTTP/1.1 204 No Content
Content-Length: 0
Connection: close
Date: Wed, 14 Aug 2019 12:00:21 GMT
Server: tencent-cos
x-cos-delete-marker: true
x-cos-request-id: NWQ1M2Y3ZDVfN2RiNDBiMDlfMmMwNmVfMTc4****
x-cos-version-id: MTg0NDUxNzgyODk2ODc1NjY0NzQ
```

Sample 3: deleting an object of a specified version permanently

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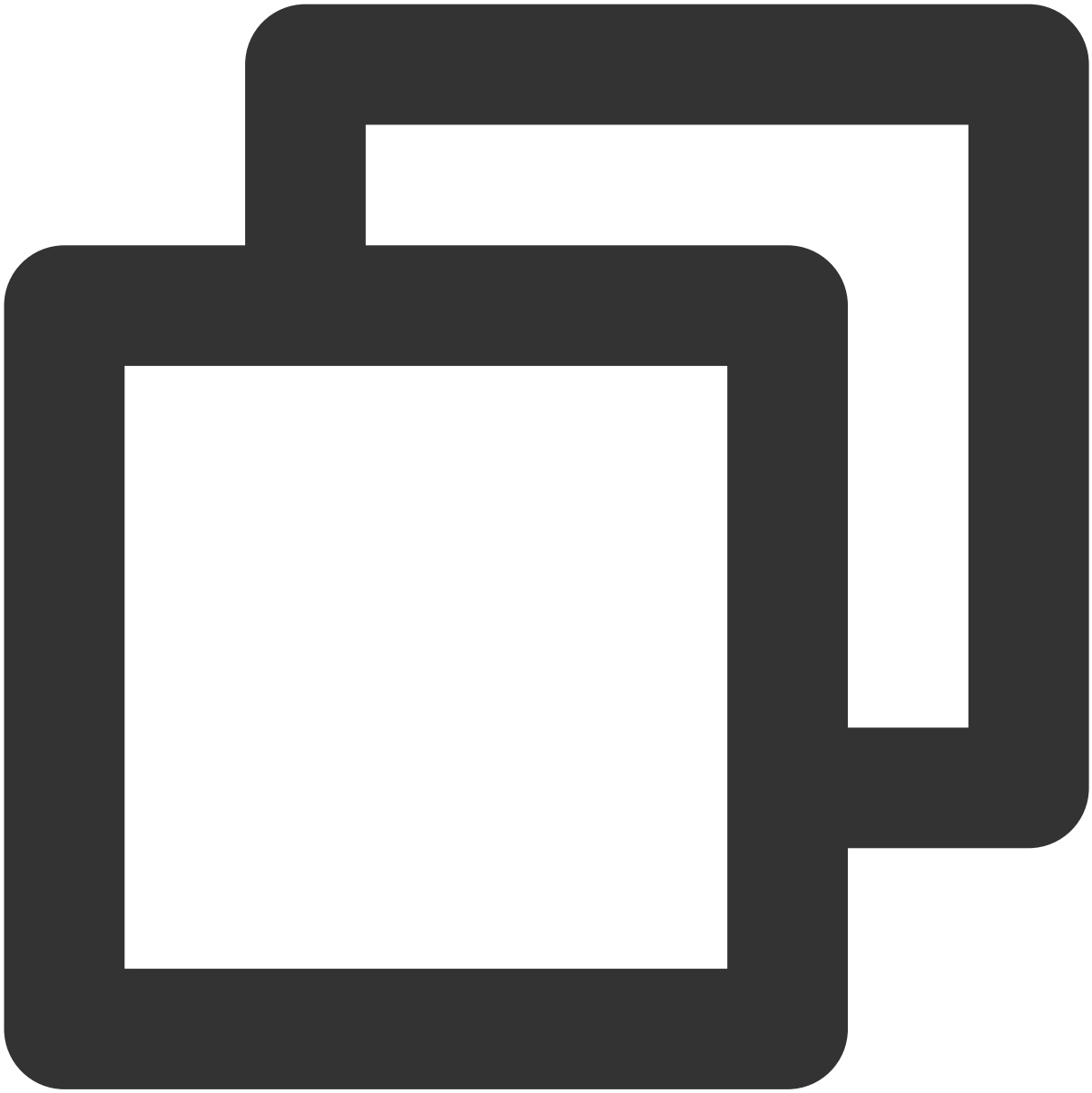
Request



```
DELETE /exampleobject?versionId=MTg0NDUxNzgyODk3MDgyMzI4NDY HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 14 Aug 2019 12:00:32 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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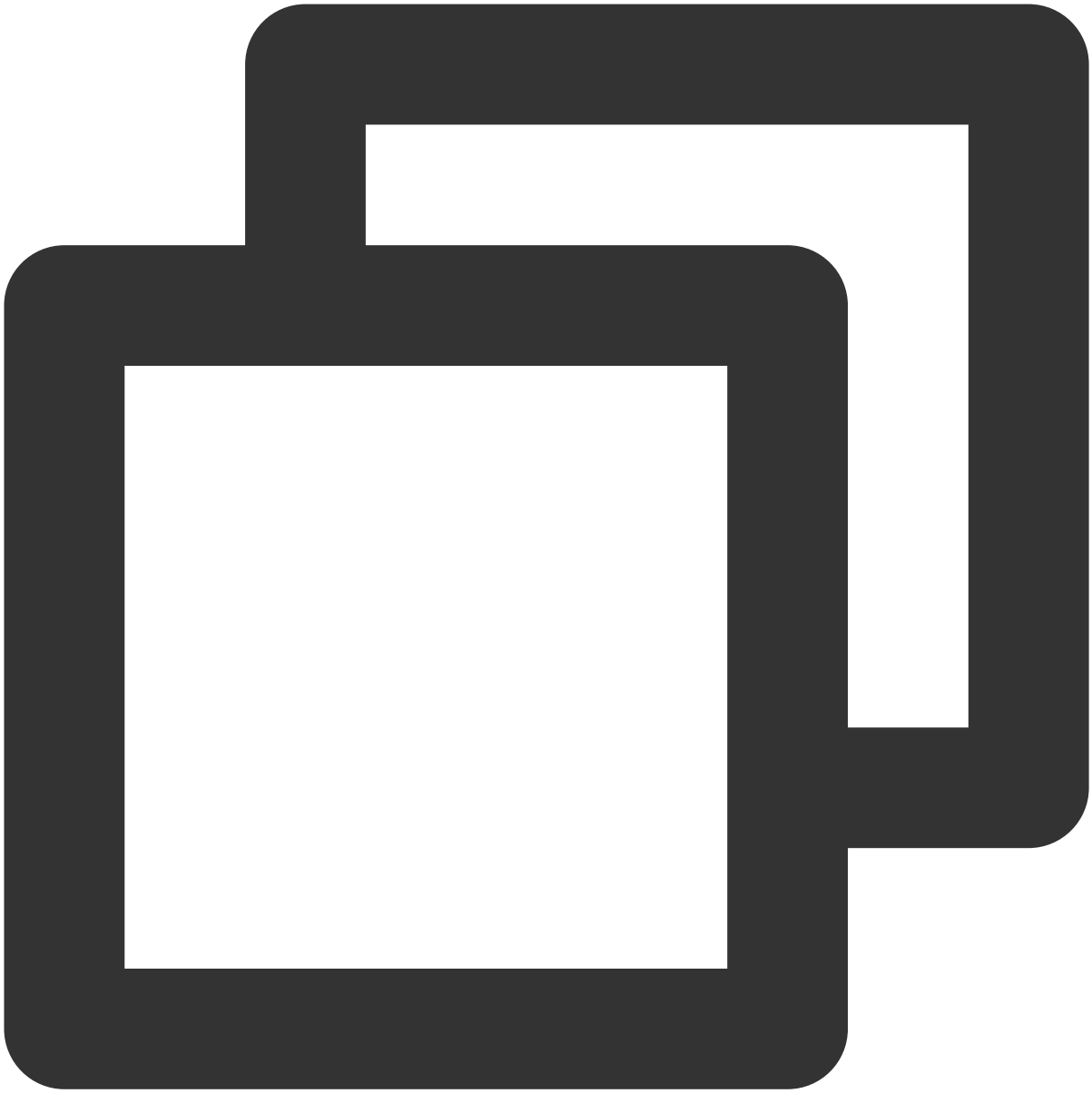

```
HTTP/1.1 204 No Content
Content-Length: 0
Connection: close
Date: Wed, 14 Aug 2019 12:00:32 GMT
Server: tencent-cos
x-cos-request-id: NWQ1M2Y3ZTBfODhjMjJhMDlfMWNkOF8xZDZi****
x-cos-version-id: MTg0NDUxNzgyODk3MDgyMzI4NDY
```

Sample 4: deleting a specified delete marker permanently

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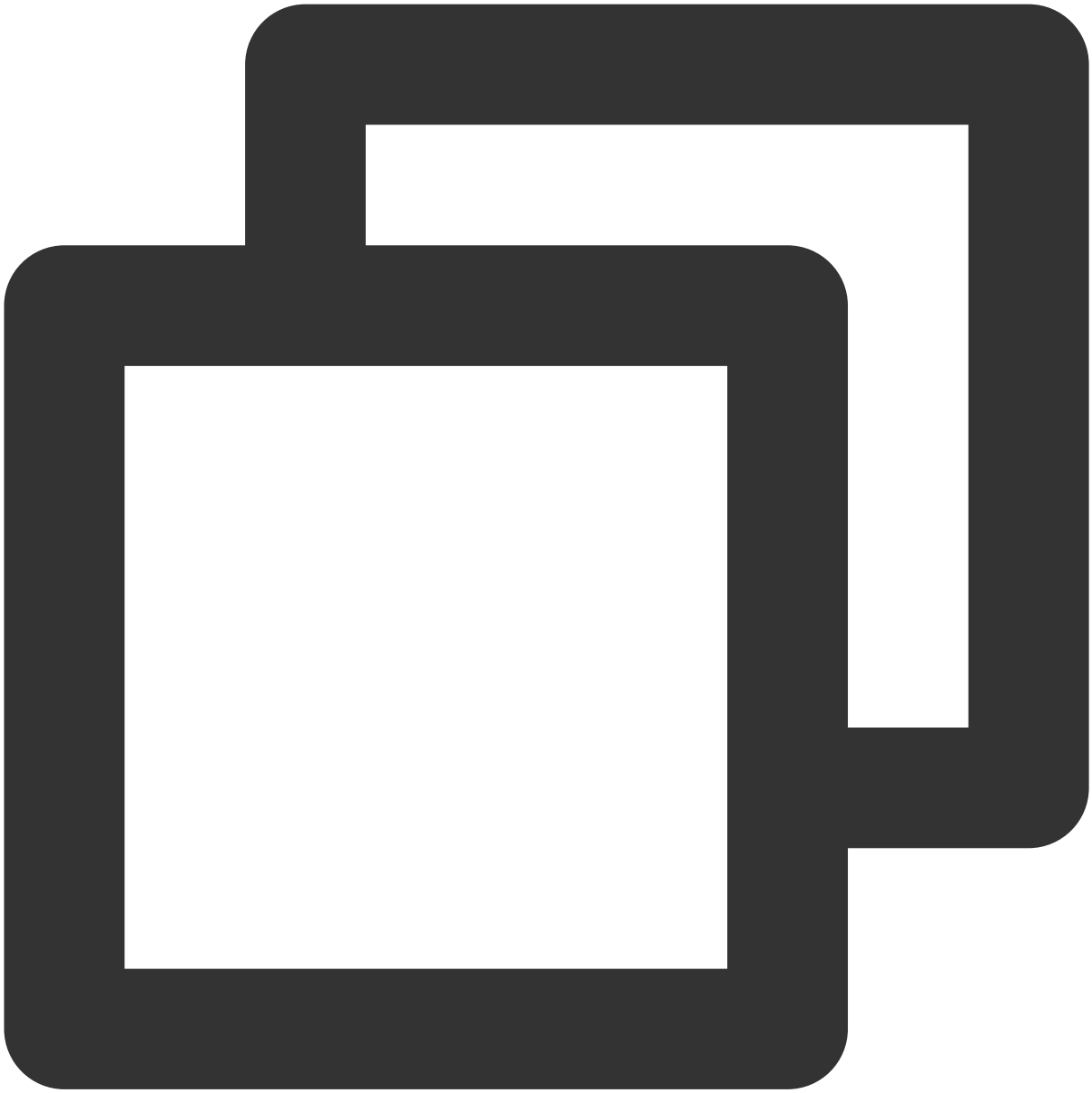
Request



```
DELETE /exampleobject?versionId=MTg0NDUxNzgyODk2ODc1NjY0NzQ HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 14 Aug 2019 12:00:42 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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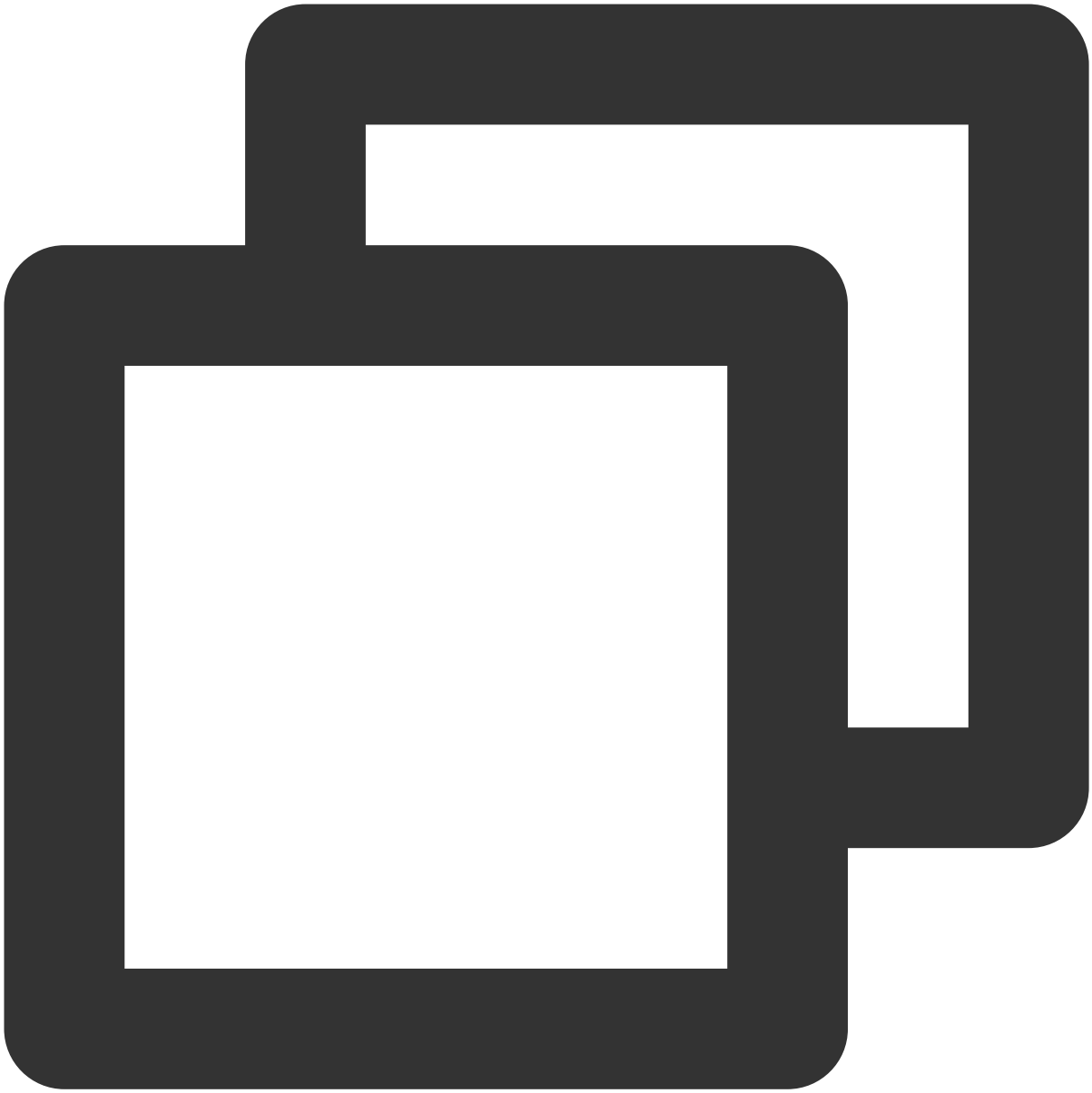

```
HTTP/1.1 204 No Content
Content-Length: 0
Connection: close
Date: Wed, 14 Aug 2019 12:00:42 GMT
Server: tencent-cos
x-cos-delete-marker: true
x-cos-request-id: NWQ1M2Y3ZWFfNzljMDBiMDlfMjkyMDJfMWRjNjVm****
x-cos-version-id: MTg0NDUxNzgyODk2ODc1NjY0NzQ
```

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DELETE Multiple Objects

Last updated：2024-06-12 15:10:38

Overview

This API is used to delete multiple objects (up to 1,000) from a bucket in a single request. COS provides the following two response modes:
Quiet: returns only information about objects that failed to delete and the error messages.
Verbose: returns the deletion results of each object.
To call this API, you need to have permission to write to the bucket.

Versioning

If versioning is enabled, you can specify a version ID for each object to delete so that these objects/delete markers of the specified versions can be deleted permanently. If no version ID is specified, a new delete marker will be created for the object.
If a delete marker is created or deleted in this request, the <DeleteMarker>true</DeleteMarker> and <DeleteMarkerVersionId> nodes will be returned for this object.
If an object of a specified version (including the delete marker version) is deleted permanently in this request, the <VersionId> node will be returned, indicating the version ID that is deleted in this request.

Request

Sample request

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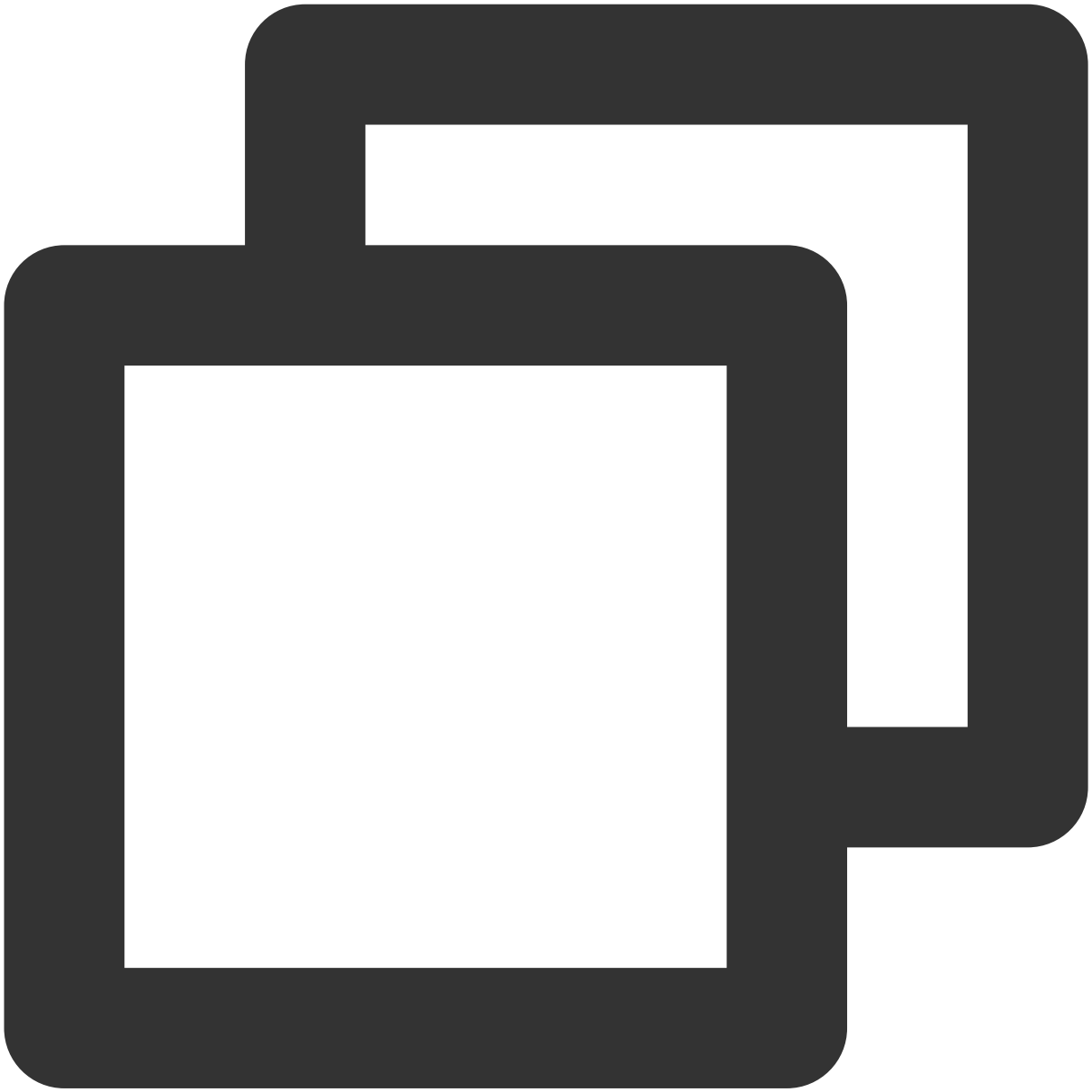

```
POST /?delete HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String

[Request Body]
```

Note:

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Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

The request body contains **application/xml** data that includes information about the objects to delete.

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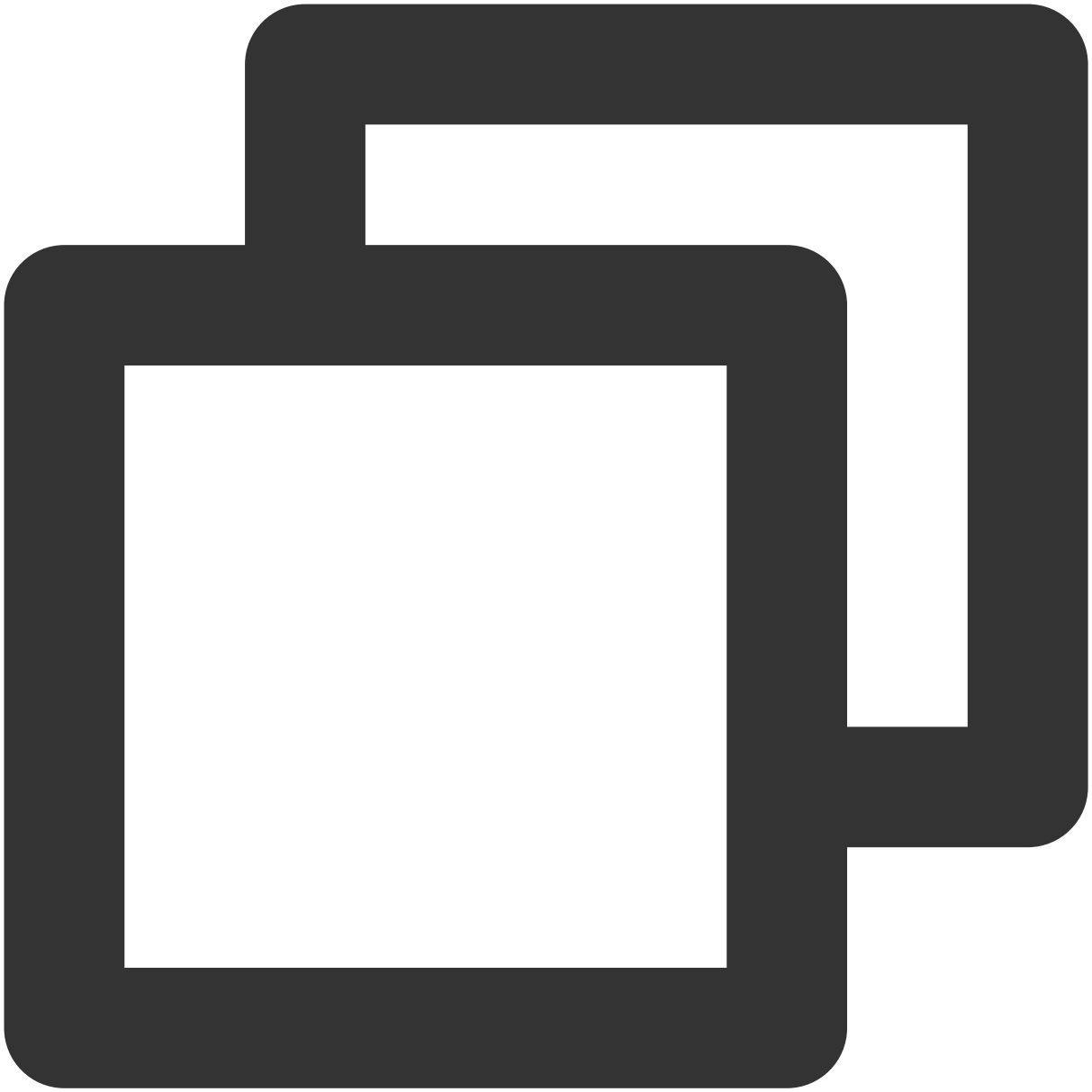

```
<Delete>
    <Quiet>boolean</Quiet>
    <Object>
        <Key>string</Key>
    </Object>
    <Object>
        <Key>string</Key>
        <VersionId>string</VersionId>
    </Object>
</Delete>
```

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The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Delete	None	Stores information about the `DELETE Multiple Objects` request.	Container	Yes

Content of `Delete`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Quiet	Delete	Whether to use the Quiet mode for the response `true`: yes (returns only information about objects that failed to delete and the error messages) `false` (default): no (uses the Verbose mode instead, returning the deletion results of all objects)	boolean	Yes
Object	Delete	Information about a single object to delete	Container	Yes

Content of `Object`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Key	Delete.Object	Key of the object to delete	string	Yes
VersionId	Delete.Object	Version ID of the object to delete (if versioning is enabled). If versioning is not enabled, or you want to create a delete marker with versioning enabled, you don't need to specify this node.	string	Yes

Response

Response headers

This API only returns Common Response Headers.

Response body

application/xml data that contains the deletion results will be returned for a successful request.

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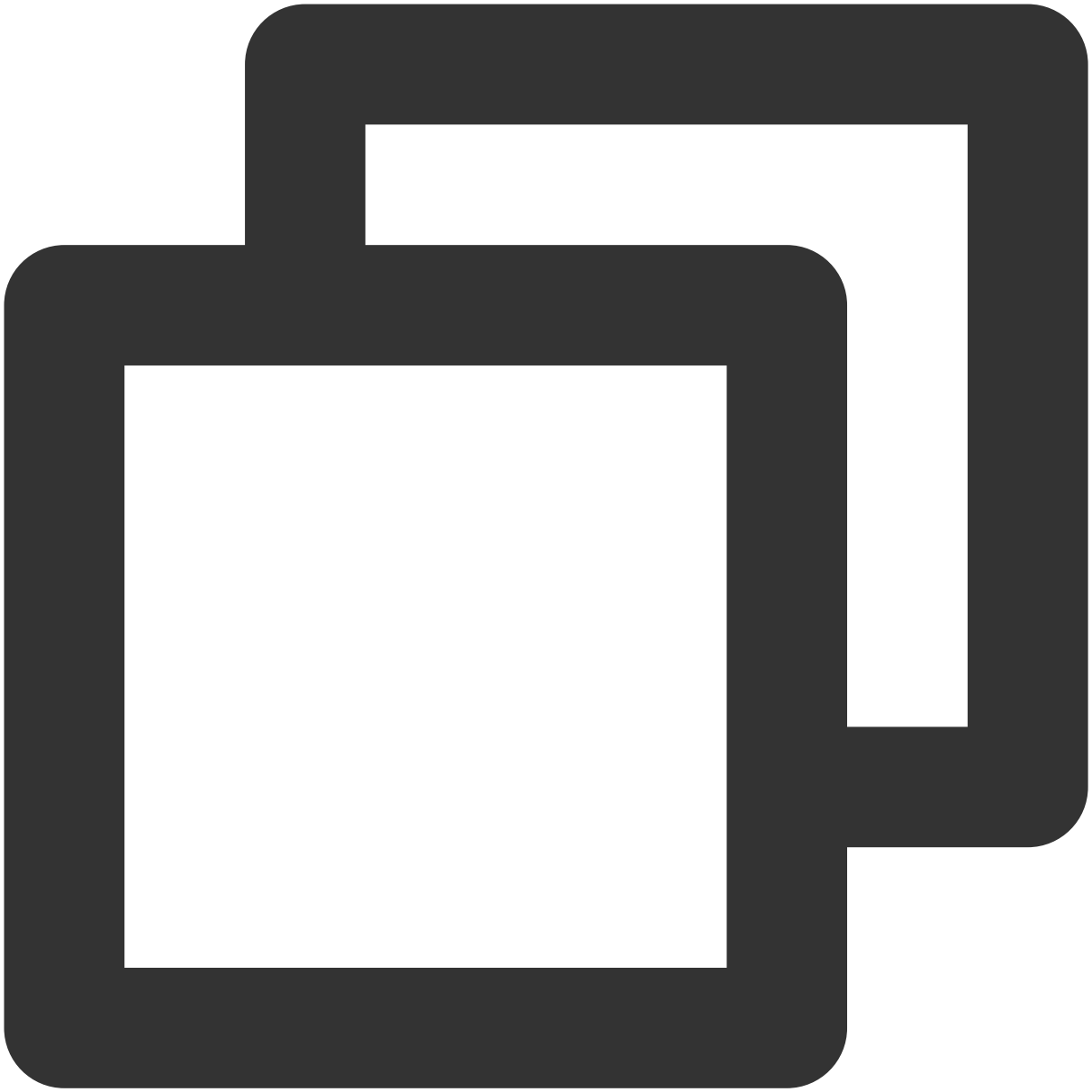

```
<DeleteResult>
    <Deleted>
        <Key>string</Key>
        <DeleteMarker>boolean</DeleteMarker>
        <DeleteMarkerVersionId>string</DeleteMarkerVersionId>
    </Deleted>
    <Deleted>
        <Key>string</Key>
        <VersionId>string</VersionId>
    </Deleted>
    <Deleted>
```

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```
        <Key>string</Key>
        <DeleteMarker>boolean</DeleteMarker>
        <DeleteMarkerVersionId>string</DeleteMarkerVersionId>
        <VersionId>string</VersionId>
    </Deleted>
    <Error>
        <Key>string</Key>
        <VersionId>string</VersionId>
        <Code>string</Code>
        <Message>string</Message>
    </Error>
</DeleteResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
DeleteResult	None	Stores the results of `DELETE Multiple Objects`	Container

Content of `DeleteResult`:

Node Name (Keyword)	Parent Node	Description	Type
Deleted	DeleteResult	An object entry that is successfully deleted. This node is returned only in Verbose mode.	Container
Error	DeleteResult	An object entry that failed to delete	Container

Content of `Deleted`:

Node Name (Keyword)	Parent Node	Description	Type
Key	DeleteResult.Deleted	Key of the object that is successfully deleted	string
DeleteMarker	DeleteResult.Deleted	Fixed to `true`. This node is returned when a delete marker is created or deleted for an object.	boolean
DeleteMarkerVersionId	DeleteResult.Deleted	ID of the delete marker that is created or deleted. This node is returned only when a delete marker is created or deleted for an object.	string
VersionId	DeleteResult.Deleted	Version ID of the object that is successfully	string

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		deleted. This node is returned only when a version ID is specified in the request.	

Content of `Error`:

Node Name (Keyword)	Parent Node	Description	Type
Key	DeleteResult.Error	Key of the object that failed to delete	string
VersionId	DeleteResult.Error	Version ID of the object that failed to delete. This node is returned only when a version ID is specified in the request.	string
Code	DeleteResult.Error	Error code for the deletion failure. The error code can be used to locate the error conditions and scenario.	string
Message	DeleteResult.Error	Error message for the deletion failure	string

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Sample 1: simple use case

Request

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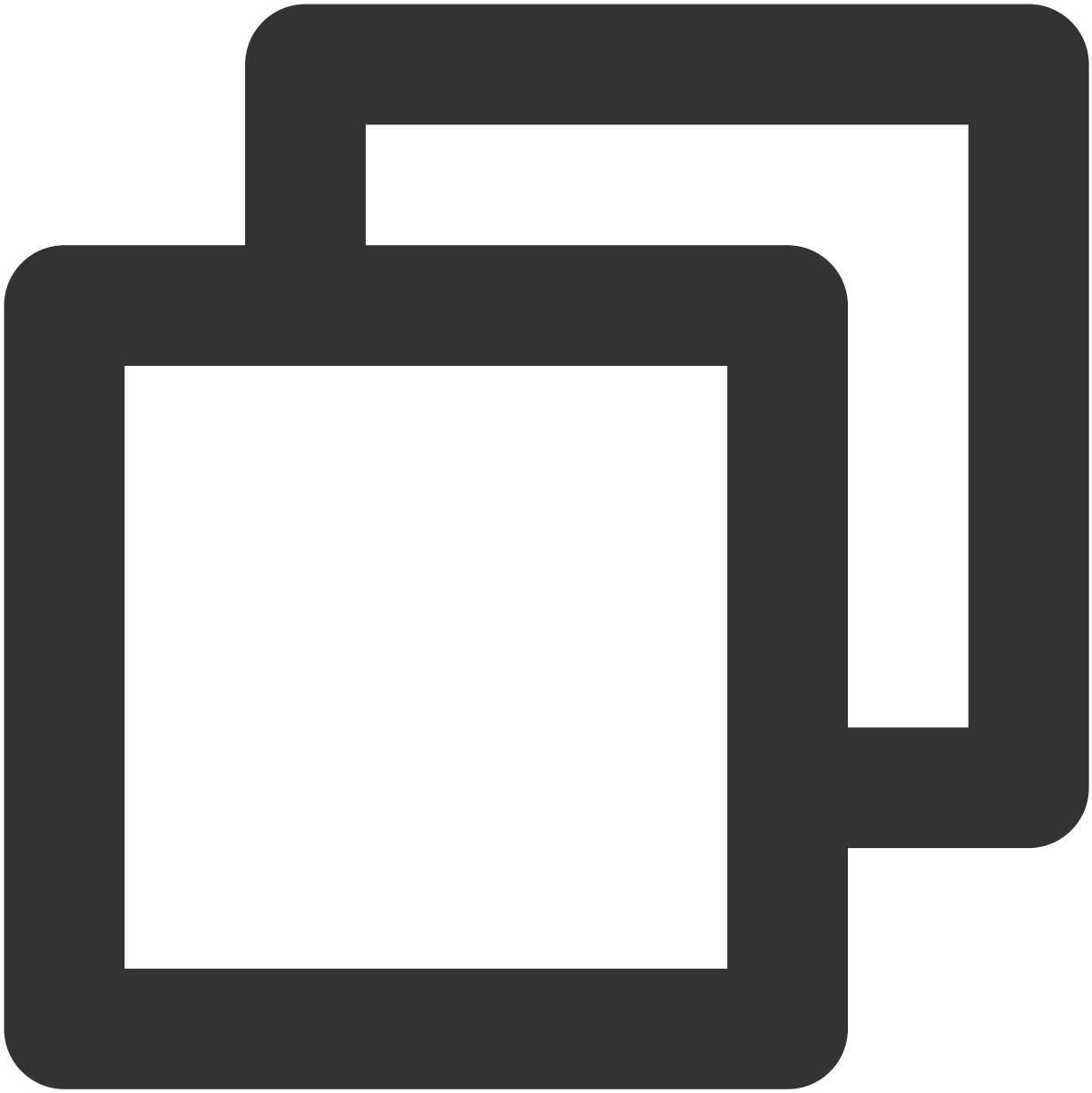

```
POST /?delete HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 20 Aug 2019 11:59:35 GMT
Content-Type: application/xml
Content-Length: 158
Content-MD5: zUd/xgzNGDrqJMJUOWV2AQ==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<Delete>
    <Quiet>false</Quiet>
```

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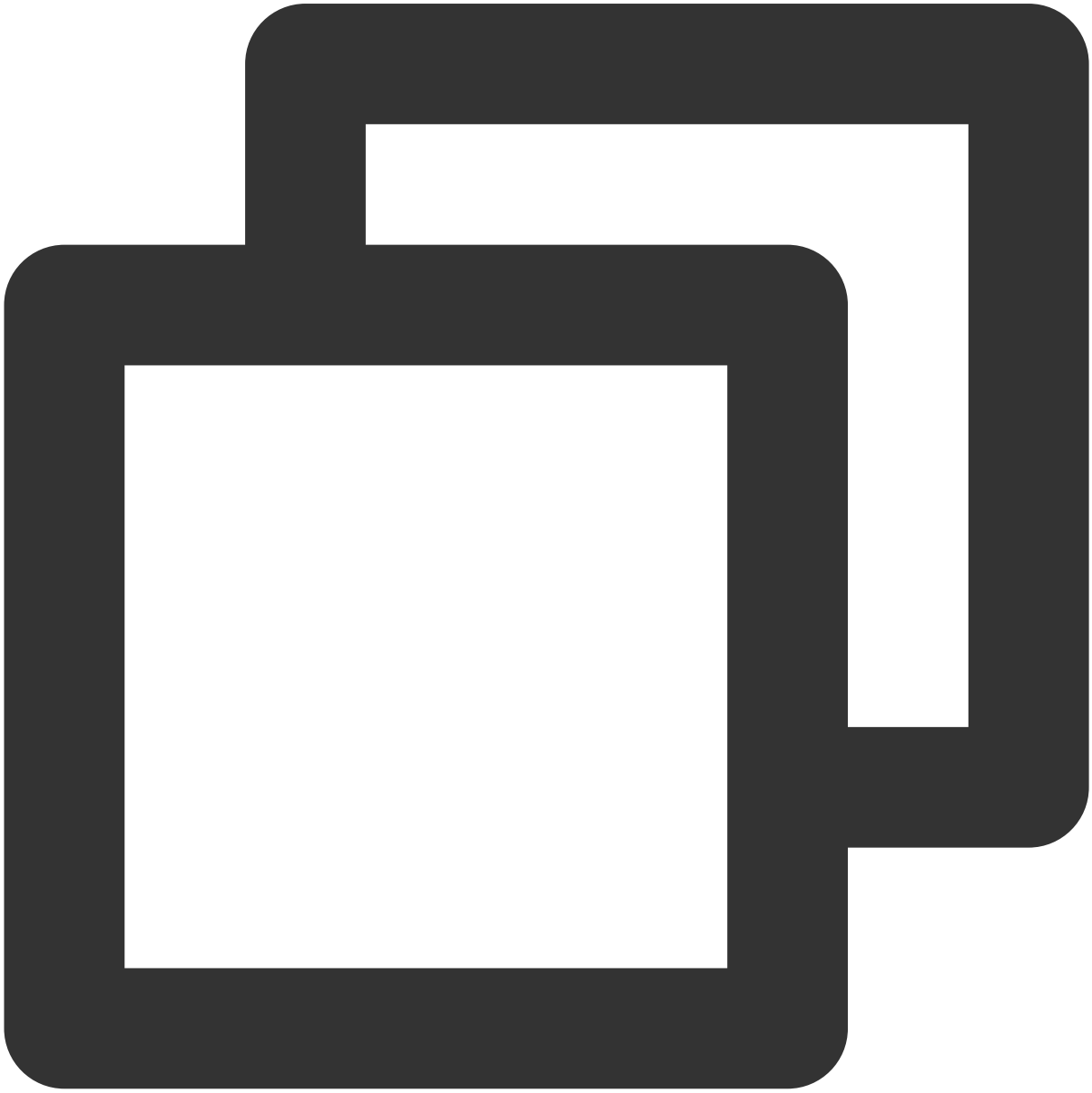
```
    <Object>
        <Key>example-object-1.jpg</Key>
    </Object>
    <Object>
        <Key>example-object-2.jpg</Key>
    </Object>
</Delete>
```

Response



```
HTTP/1.1 200 OK
```

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```
Content-Type: application/xml
Content-Length: 144
Connection: close
Date: Tue, 20 Aug 2019 11:59:35 GMT
Server: tencent-cos
x-cos-request-id: NWQ1YmUwYTdfM2FiMDJhMDlfYzczN18zMGM1****

<DeleteResult>
    <Deleted>
        <Key>example-object-1.jpg</Key>
    </Deleted>
    <Deleted>
        <Key>example-object-2.jpg</Key>
    </Deleted>
</DeleteResult>
```

Sample 2: simple use case (using the Quiet mode)

Request

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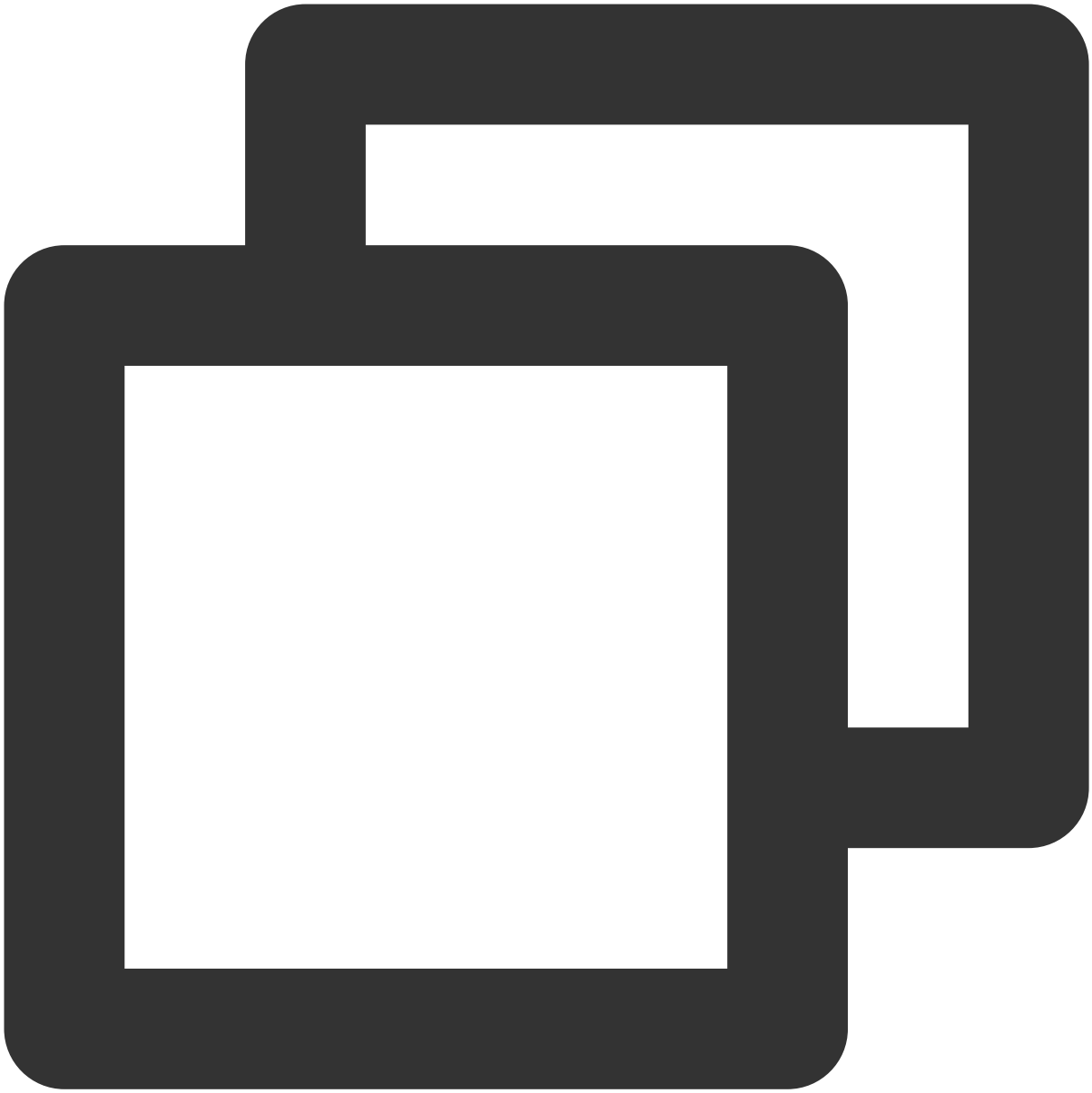

```
POST /?delete HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 20 Aug 2019 12:12:26 GMT
Content-Type: application/xml
Content-Length: 157
Content-MD5: +iI9kJvM2k/y5y3nHcn8BQ==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<Delete>
    <Quiet>true</Quiet>
```

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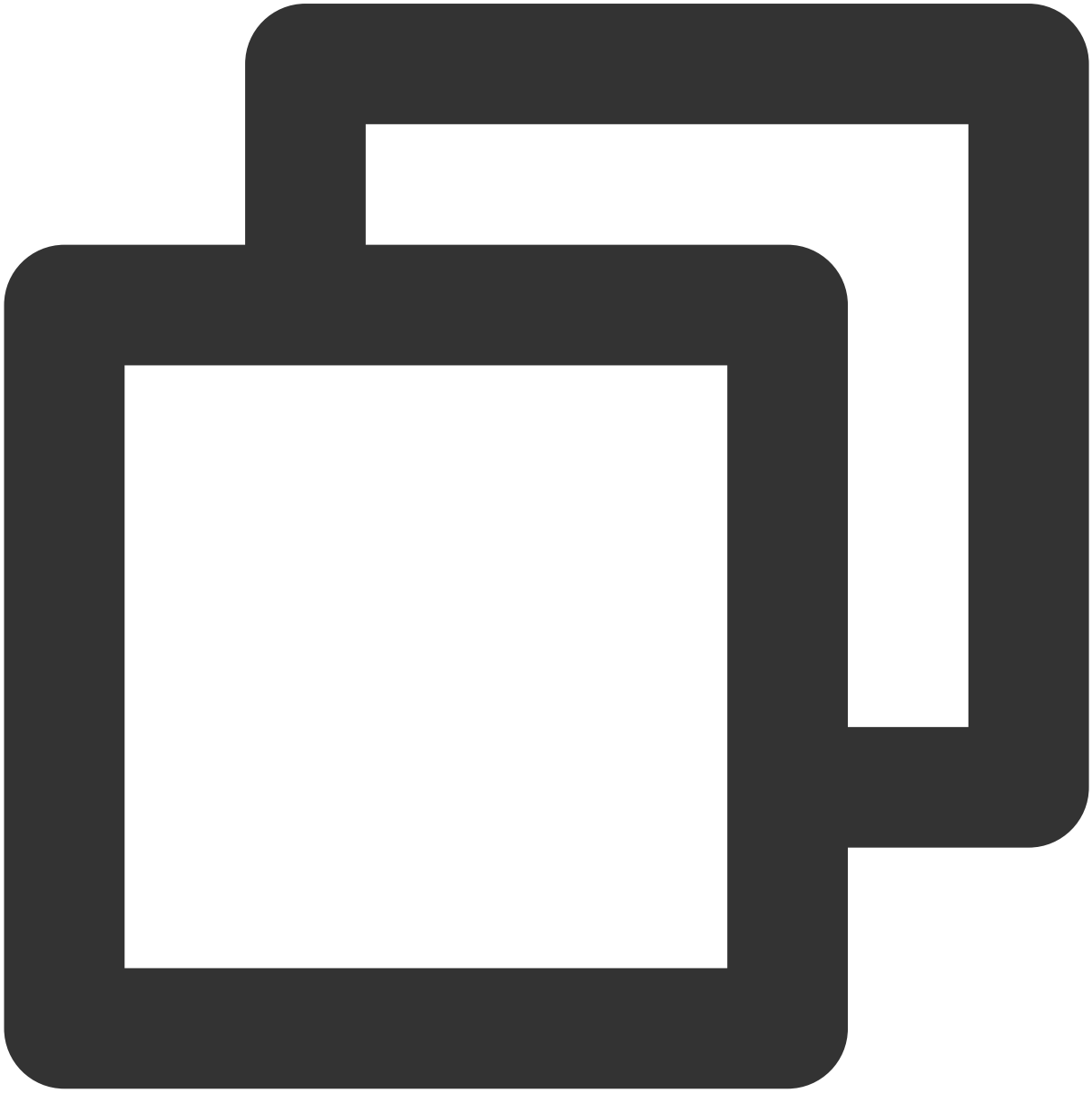
```
    <Object>
        <Key>example-object-1.jpg</Key>
    </Object>
    <Object>
        <Key>example-object-2.jpg</Key>
    </Object>
</Delete>
```

Response



```
HTTP/1.1 200 OK
```

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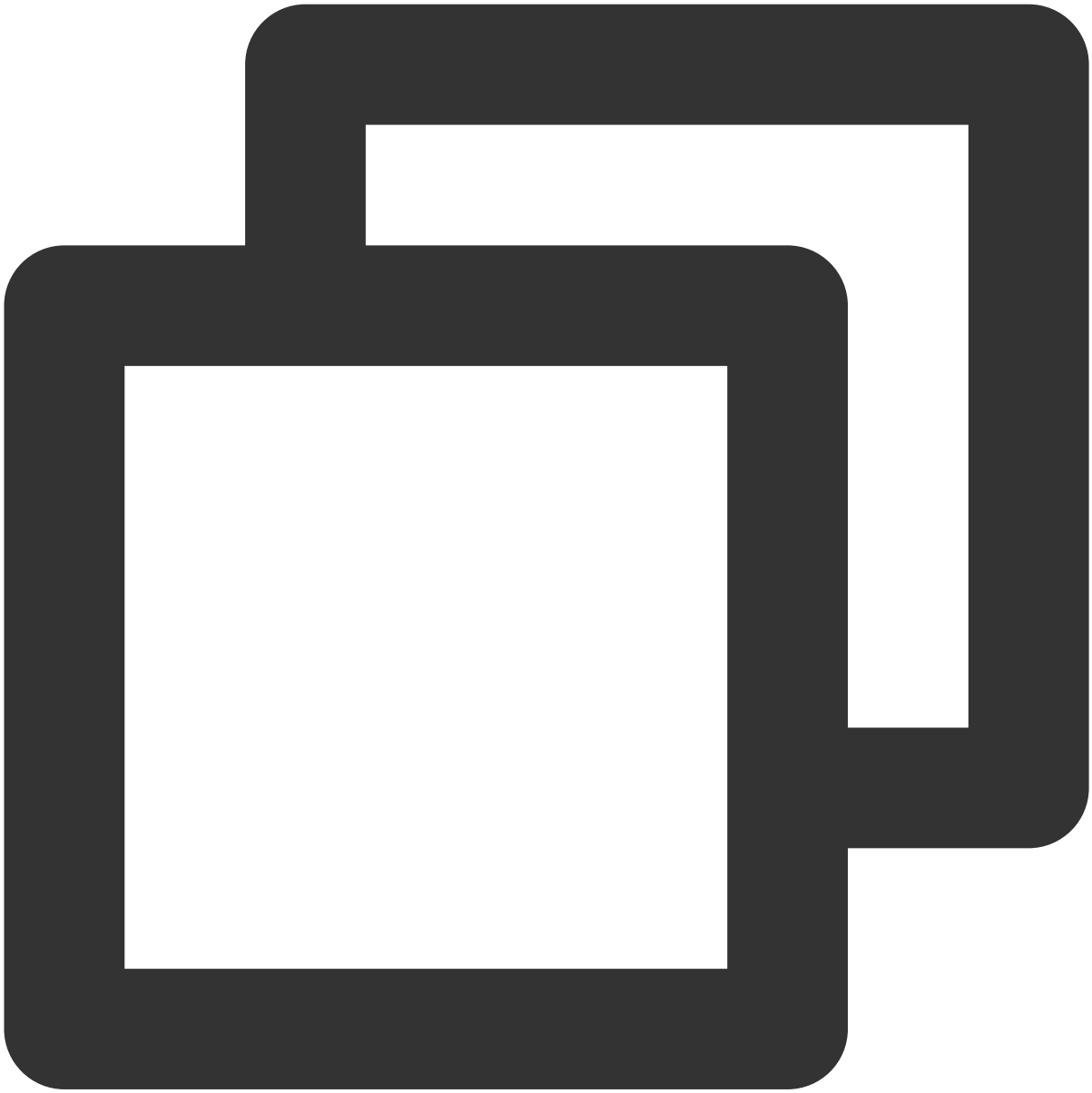
```
Content-Type: application/xml
Content-Length: 15
Connection: close
Date: Tue, 20 Aug 2019 12:12:27 GMT
Server: tencent-cos
x-cos-request-id: NWQ1YmUzYWFfMTljMDJhMDlfNTg3ZV8zNDI0****

<DeleteResult/>
```

Sample 3: versioning-enabled (creating a delete marker)

Request



```
POST /?delete HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 21 Aug 2019 12:04:03 GMT
Content-Type: application/xml
Content-Length: 100
Content-MD5: MowFtlG7iwK7Wmk79IVXFA==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<Delete>
    <Quiet>false</Quiet>
```

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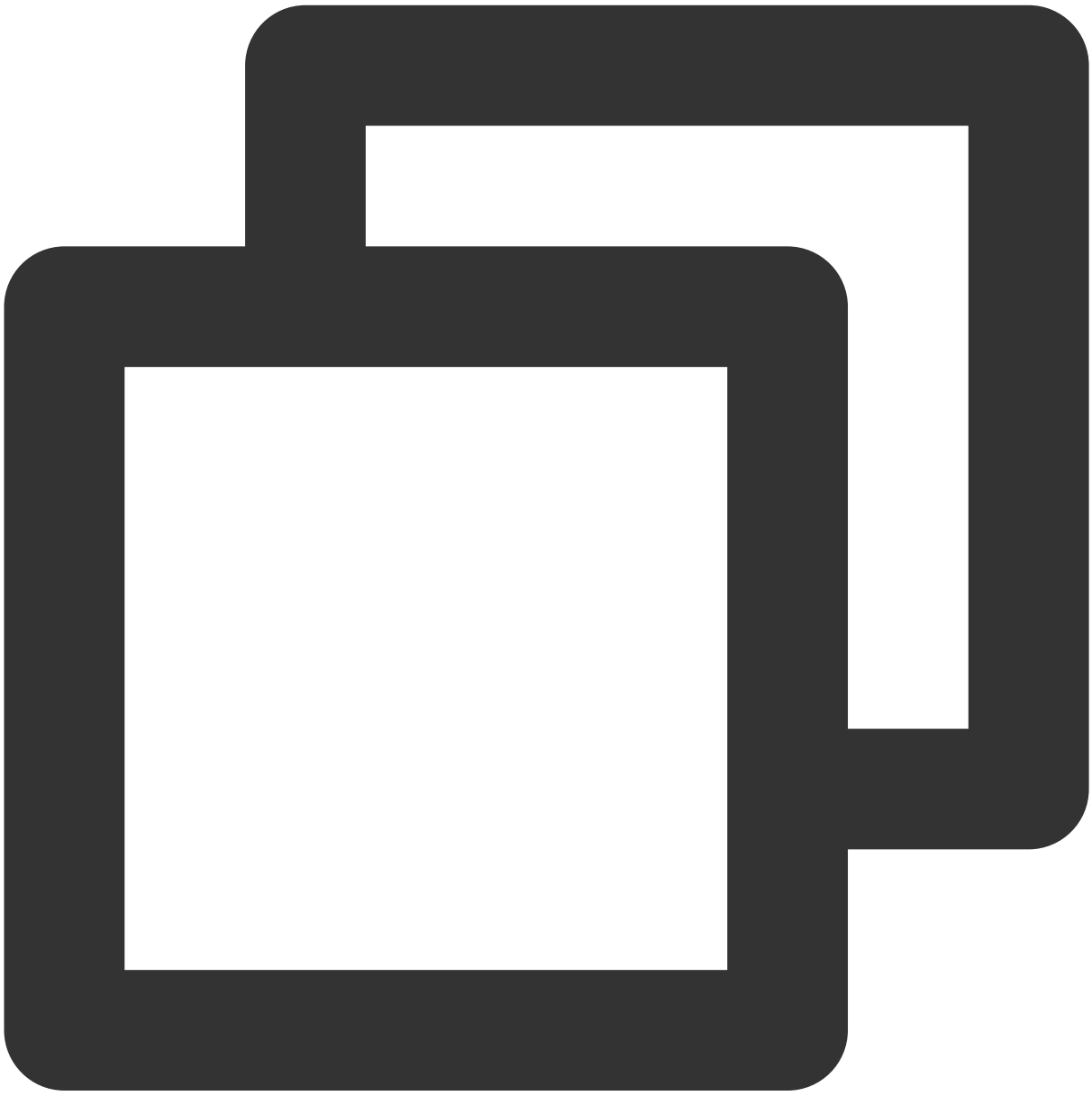
```
    <Object>
        <Key>example-object-1.jpg</Key>
    </Object>
</Delete>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 200
Connection: close
```

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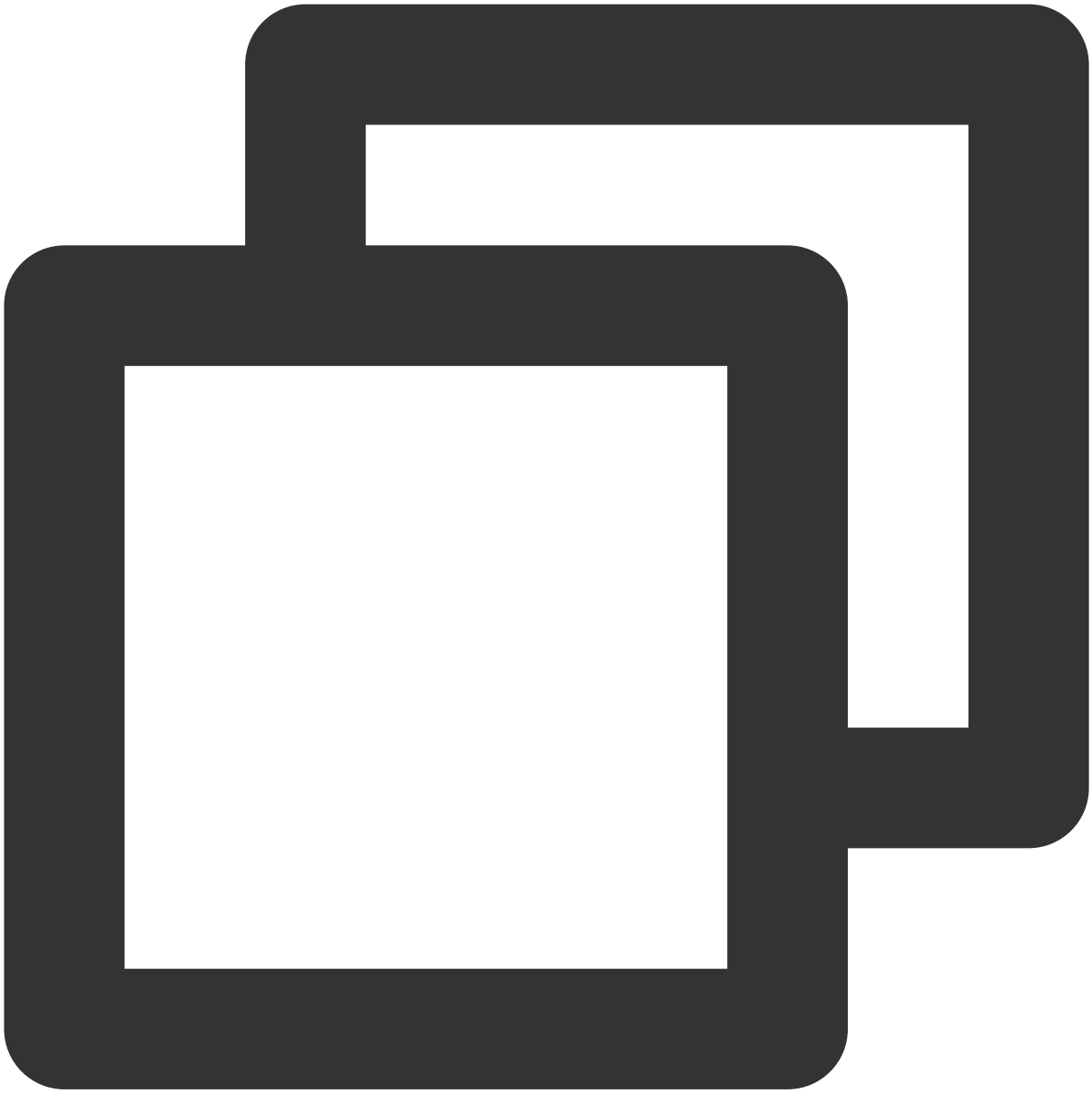
```
Date: Wed, 21 Aug 2019 12:04:03 GMT
Server: tencent-cos
x-cos-request-id: NWQ1ZDMzMzNfNDhiNDBiMDlfMmIzNzZfMTBh****

<DeleteResult>
    <Deleted>
        <Key>example-object-1.jpg</Key>
        <DeleteMarker>true</DeleteMarker>
        <DeleteMarkerVersionId>MTg0NDUxNzc2ODQ2NjU3ODM4NTc</DeleteMarkerVersionId>
    </Deleted>
</DeleteResult>
```

Sample 4: deleting an object of a specified version

Request



```
POST /?delete HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 21 Aug 2019 11:24:43 GMT
Content-Type: application/xml
Content-Length: 154
Content-MD5: EwFydeQSMzaHWi0qMTOGWw==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<Delete>
    <Quiet>false</Quiet>
```

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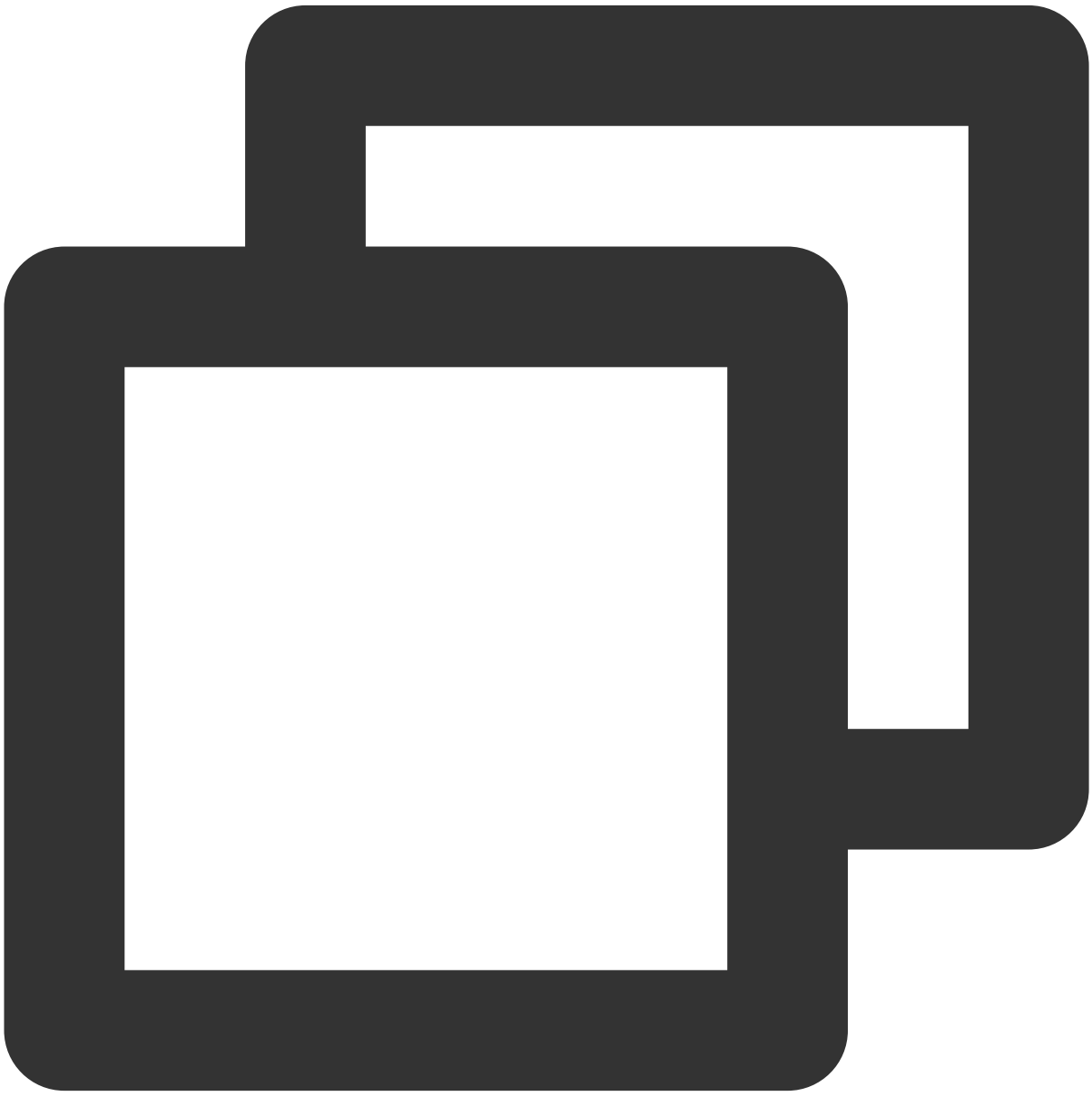
```
    <Object>
        <Key>example-object-2.jpg</Key>
        <VersionId>MTg0NDUxNzc2ODcwMjYyNjIwMTM</VersionId>
    </Object>
</Delete>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 140
```

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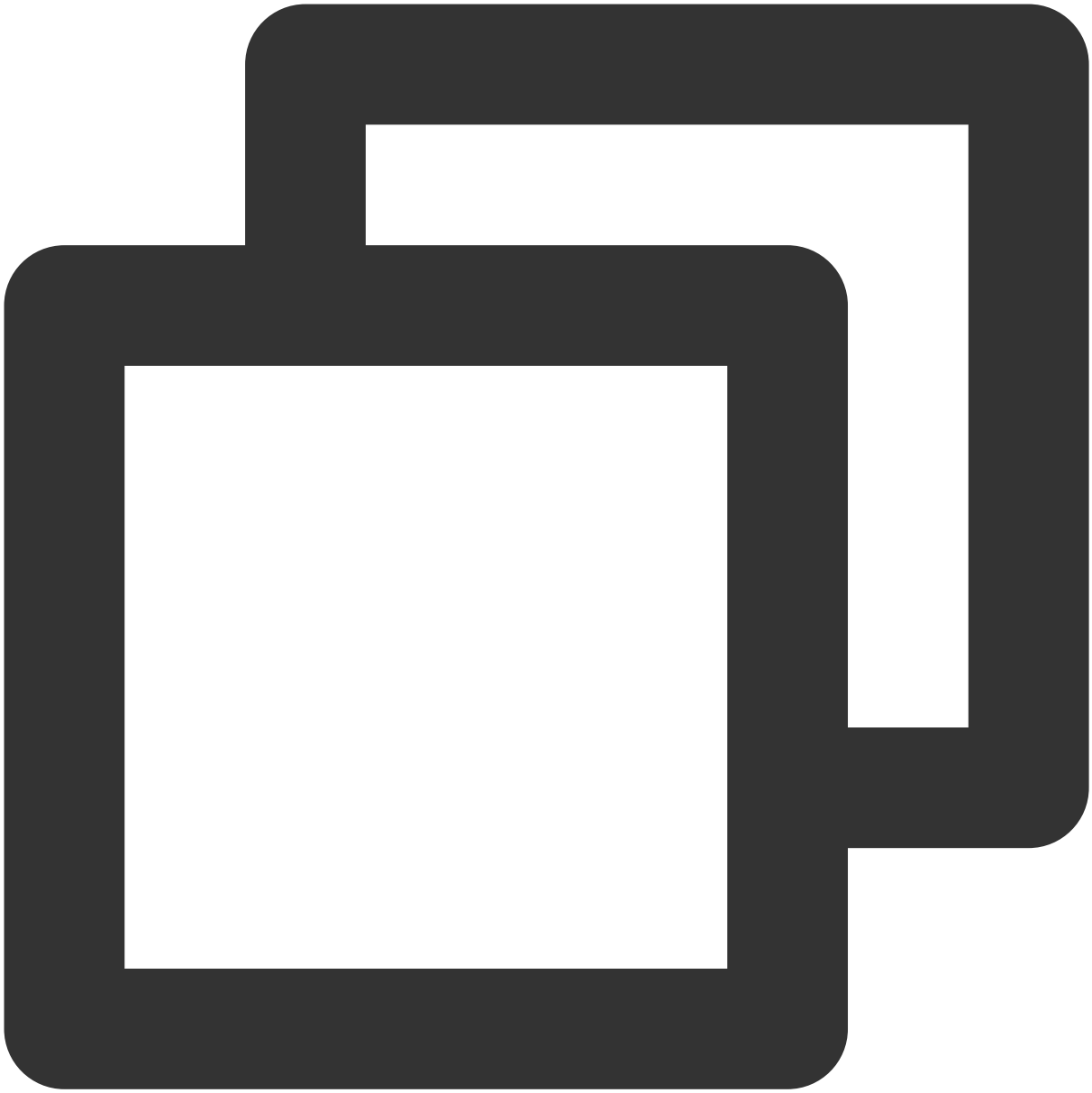
```
Connection: close
Date: Wed, 21 Aug 2019 11:24:44 GMT
Server: tencent-cos
x-cos-request-id: NWQ1ZDI5ZmJfNDhiNDBiMDlfMmIzODNfMTA0****

<DeleteResult>
    <Deleted>
        <Key>example-object-2.jpg</Key>
        <VersionId>MTg0NDUxNzc2ODcwMjYyNjIwMTM</VersionId>
    </Deleted>
</DeleteResult>
```

Sample 5: deleting a delete marker

Request



```
POST /?delete HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 21 Aug 2019 12:04:04 GMT
Content-Type: application/xml
Content-Length: 154
Content-MD5: EKphCPpHcKiVqJtMqE+DmA==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<Delete>
    <Quiet>false</Quiet>
```

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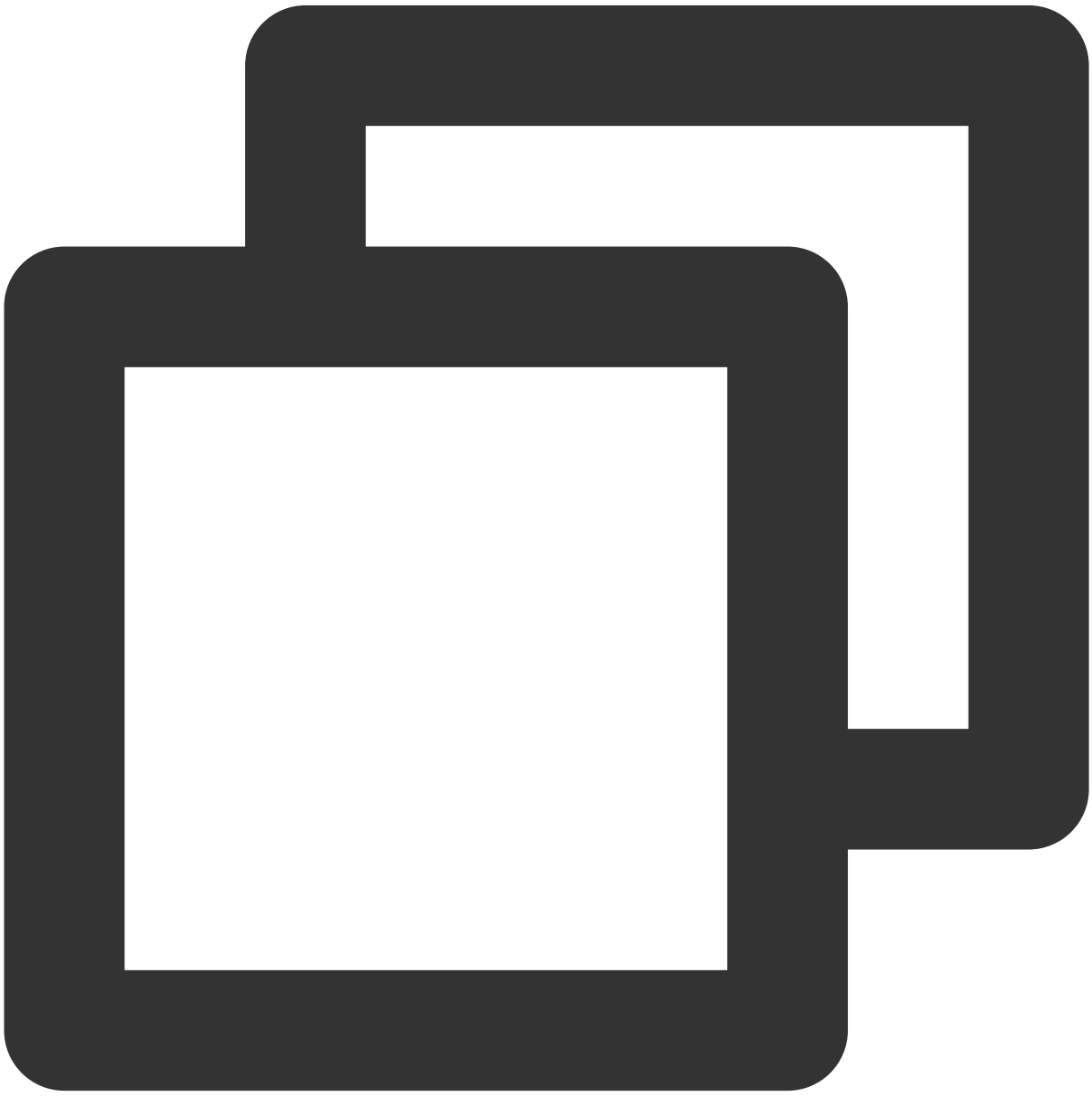
```
    <Object>
        <Key>example-object-1.jpg</Key>
        <VersionId>MTg0NDUxNzc2ODQ2NjU3ODM4NTc</VersionId>
    </Object>
</Delete>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 253
```

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```
Connection: close
Date: Wed, 21 Aug 2019 12:04:04 GMT
Server: tencent-cos
x-cos-request-id: NWQ1ZDMzMzRfYmIwMmEwOV83YTQzXzEyM2Ri****

<DeleteResult>
    <Deleted>
        <Key>example-object-1.jpg</Key>
        <DeleteMarker>true</DeleteMarker>
        <DeleteMarkerVersionId>MTg0NDUxNzc2ODQ2NjU3ODM4NTc</DeleteMarkerVersionId>
        <VersionId>MTg0NDUxNzc2ODQ2NjU3ODM4NTc</VersionId>
    </Deleted>
</DeleteResult>
```

Sample 6: failed to delete some objects

Request

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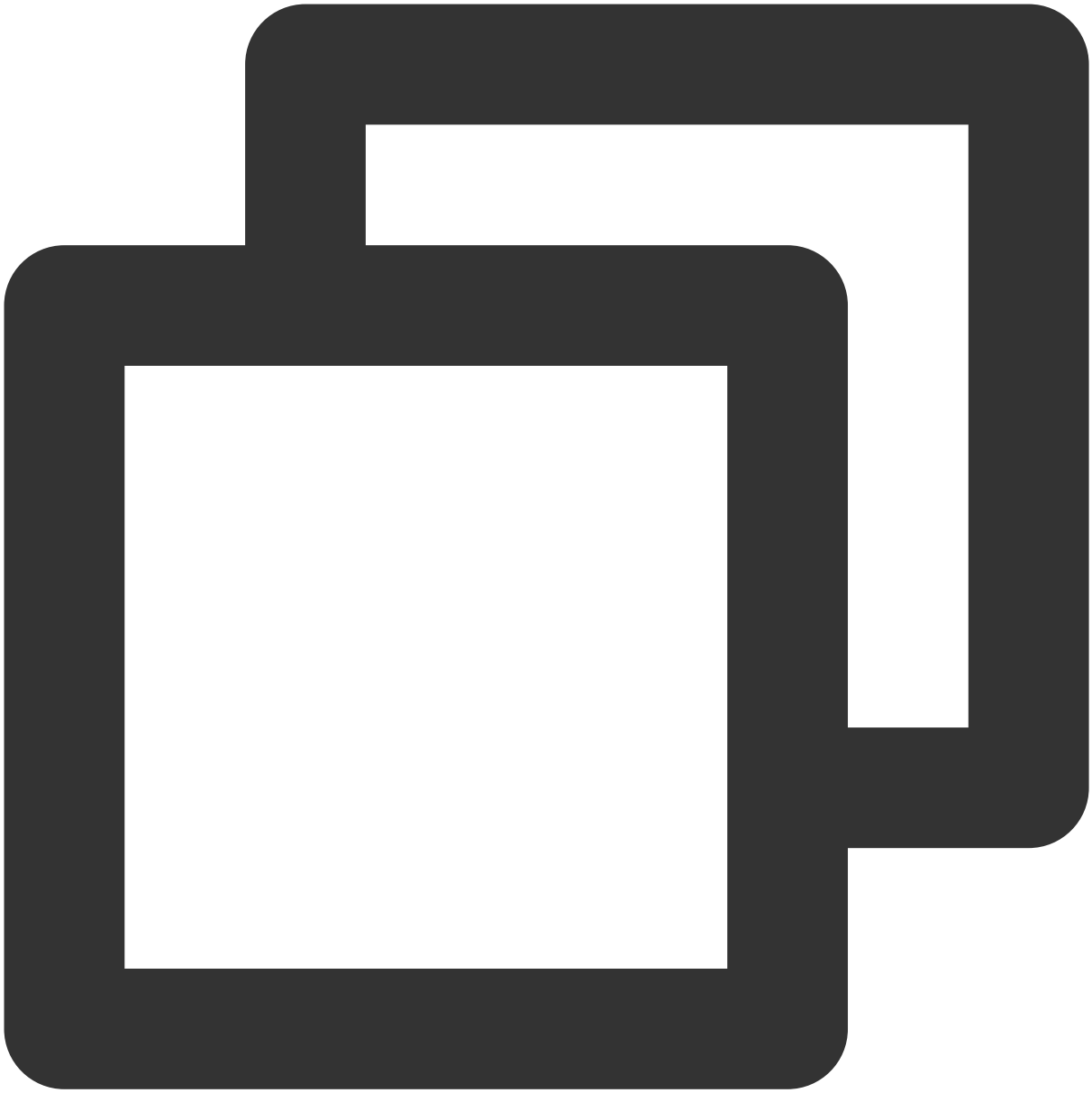

```
POST /?delete HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 21 Aug 2019 12:04:05 GMT
Content-Type: application/xml
Content-Length: 436
Content-MD5: ZAbgvje31aO+0j7pkEkYvQ==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<Delete>
    <Quiet>false</Quiet>
```

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```
    <Object>
        <Key>example-object-1.jpg</Key>
    </Object>
    <Object>
        <Key>example-object-2.jpg</Key>
        <VersionId>MTg0NDUxNzc2ODQ2NjQ1MjM5MTk</VersionId>
    </Object>
    <Object>
        <Key>example-object-3.jpg</Key>
        <VersionId>MTg0NDUxNzc2ODQ2NjQwMTIwMDI</VersionId>
    </Object>
    <Object>
        <Key>example-object-4.jpg</Key>
        <VersionId>MTg0NDUxNzc2ODQ2NjQ0NjI0MDQ</VersionId>
    </Object>
</Delete>
```

Response

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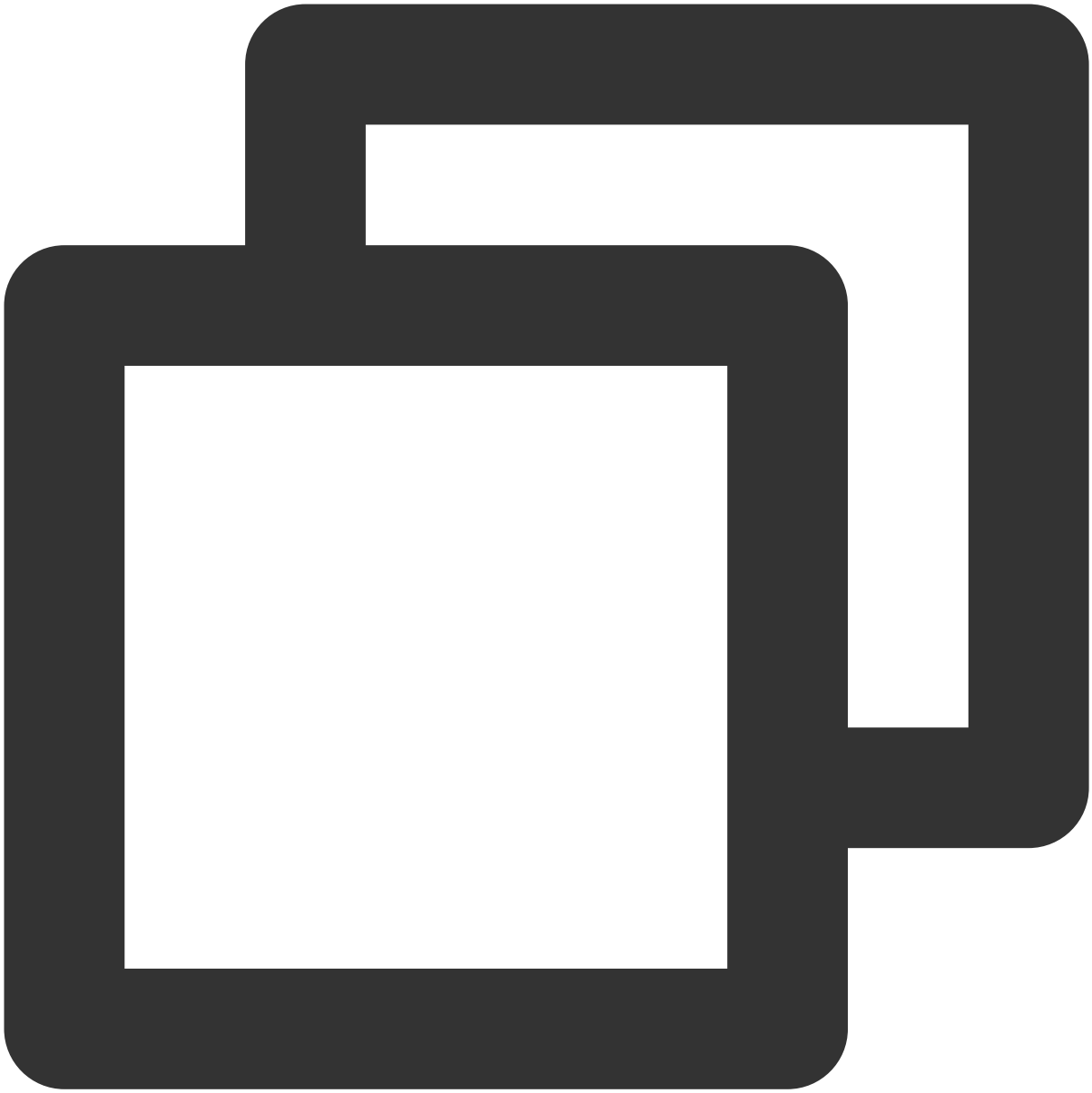

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 703
Connection: close
Date: Wed, 21 Aug 2019 12:04:06 GMT
Server: tencent-cos
x-cos-request-id: NWQ1ZDMzMzVfOTNjMjJhMDlfMzhiM18xMWY3****

<DeleteResult>
    <Deleted>
        <Key>example-object-1.jpg</Key>
```

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```
        <DeleteMarker>true</DeleteMarker>
        <DeleteMarkerVersionId>MTg0NDUxNzc2ODQ2NjM1NTI2NDY</DeleteMarkerVersionId>
    </Deleted>
    <Deleted>
        <Key>example-object-2.jpg</Key>
        <VersionId>MTg0NDUxNzc2ODQ2NjQ1MjM5MTk</VersionId>
    </Deleted>
    <Deleted>
        <Key>example-object-3.jpg</Key>
        <DeleteMarker>true</DeleteMarker>
        <DeleteMarkerVersionId>MTg0NDUxNzc2ODQ2NjQwMTIwMDI</DeleteMarkerVersionId>
        <VersionId>MTg0NDUxNzc2ODQ2NjQwMTIwMDI</VersionId>
    </Deleted>
    <Error>
        <Key>example-object-4.jpg</Key>
        <VersionId>MTg0NDUxNzc2ODQ2NjQ0NjI0MDQ</VersionId>
        <Code>PathConflict</Code>
        <Message>Path conflict.</Message>
    </Error>
</DeleteResult>
```

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OPTIONS Object

Last updated：2024-06-12 15:10:38

Overview

This API is used to issue a preflight request for cross-origin resource sharing (CORS). Before an actual CORS request is sent, your browser may determine whether a preflight request is necessary and if yes, it automatically issues a preflight request first. Therefore, frontend developers may not need to send such requests themselves in most cases.
If the preflight request matches the CORS configuration of the bucket, COS will respond successfully, allowing the browser to send the actual CORS request.
If the bucket does not have CORS configuration, or the preflight request does not match the configuration, COS returns the 403 Forbidden error, and the browser will stop the CORS request and throw an exception to the frontend.
For more information about CORS configurations, please see PUT Bucket cors.

Request

Sample request

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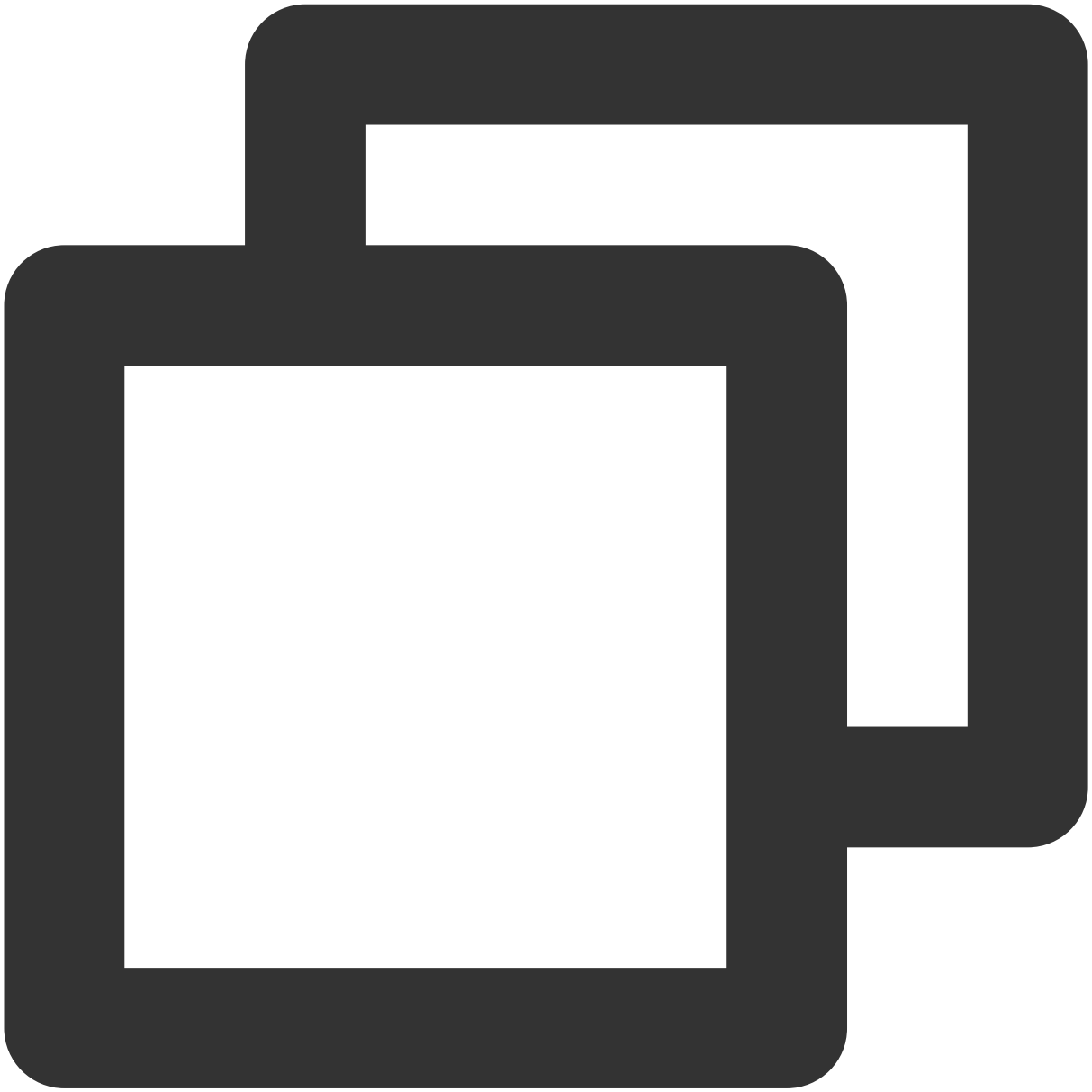

```
OPTIONS /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Origin: Origin
Access-Control-Request-Method: RequestMethod
```

Note:

In the sample request above, an object key (`ObjectKey`) is specified. You can also specify any other resources in the bucket, such as `OPTIONS / HTTP/1.1` or `OPTIONS /?lifecycle HTTP/1.1` .

As the preflight request is automatically sent by your browser, you cannot and need not include a request signature.

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In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Request parameters

The request parameters are determined by the browser based on the target cross-origin resource.

Request headers

The request headers are determined by the browser based on the target cross-origin resource.

Header	Description	Type	Required
Origin	Domain that initiates the CORS request	string	Yes
Access-Control-Request-Method	Method used for the CORS request	string	Yes
Access-Control-Request-Headers	HTTP request headers used for the CORS request. You can use commas (,) to separate multiple headers (case-insensitive).	string	No

Request body

This API does not have a request body.

Response

Response headers

The browser automatically identifies the response headers and controls whether the CORS request is allowed.

Header	Description	Type
Access-Control-Allow-Origin	Domains that are allowed to send a CORS request. Valid values: `*` : all domains Domains specified in the `Origin` request header	string
Access-Control-Allow-Methods	Methods allowed for the CORS request. Multiple methods are separated by commas (,).	string
Access-Control-	HTTP response headers (case-insensitive) of CORS requests that the browser can get. Multiple headers are separated by commas (,).	string

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Expose-Headers		
Access-Control-Max-Age	Validity period of the CORS configuration, in seconds. Within the validity period, the browser does not need to issue a preflight request again for the same request.	integer

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Examples

The following sample preflight requests are all automatically issued by the browser according to the actual CORS requests.

Example 1: initiating a preflight request for `PUT Object`

Request

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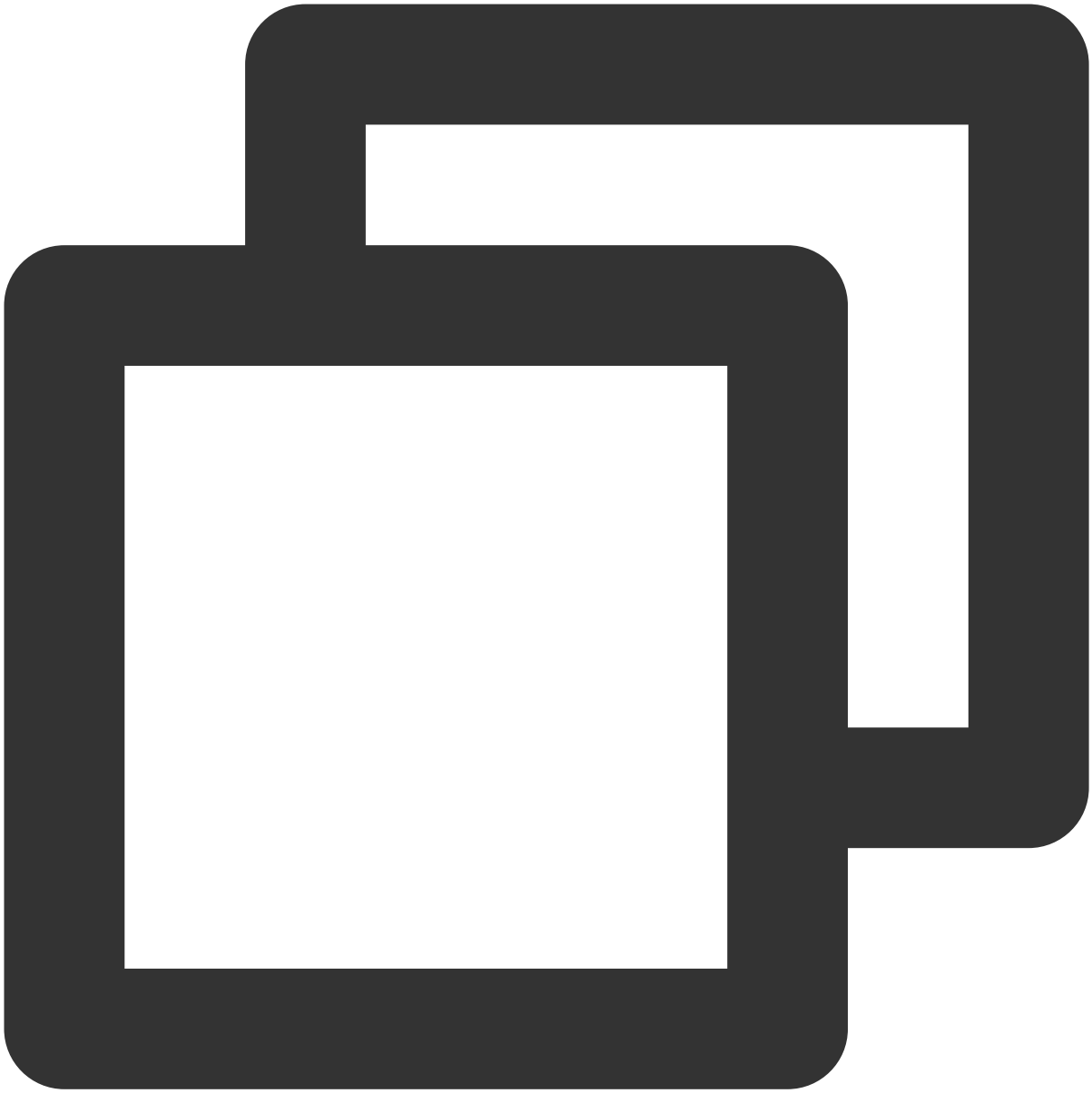

```
OPTIONS /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 09 Jul 2020 14:49:22 GMT
Origin: https://example.com
Access-Control-Request-Method: PUT
Access-Control-Request-Headers: content-md5,content-type,x-cos-meta-author
Connection: close
```

Response

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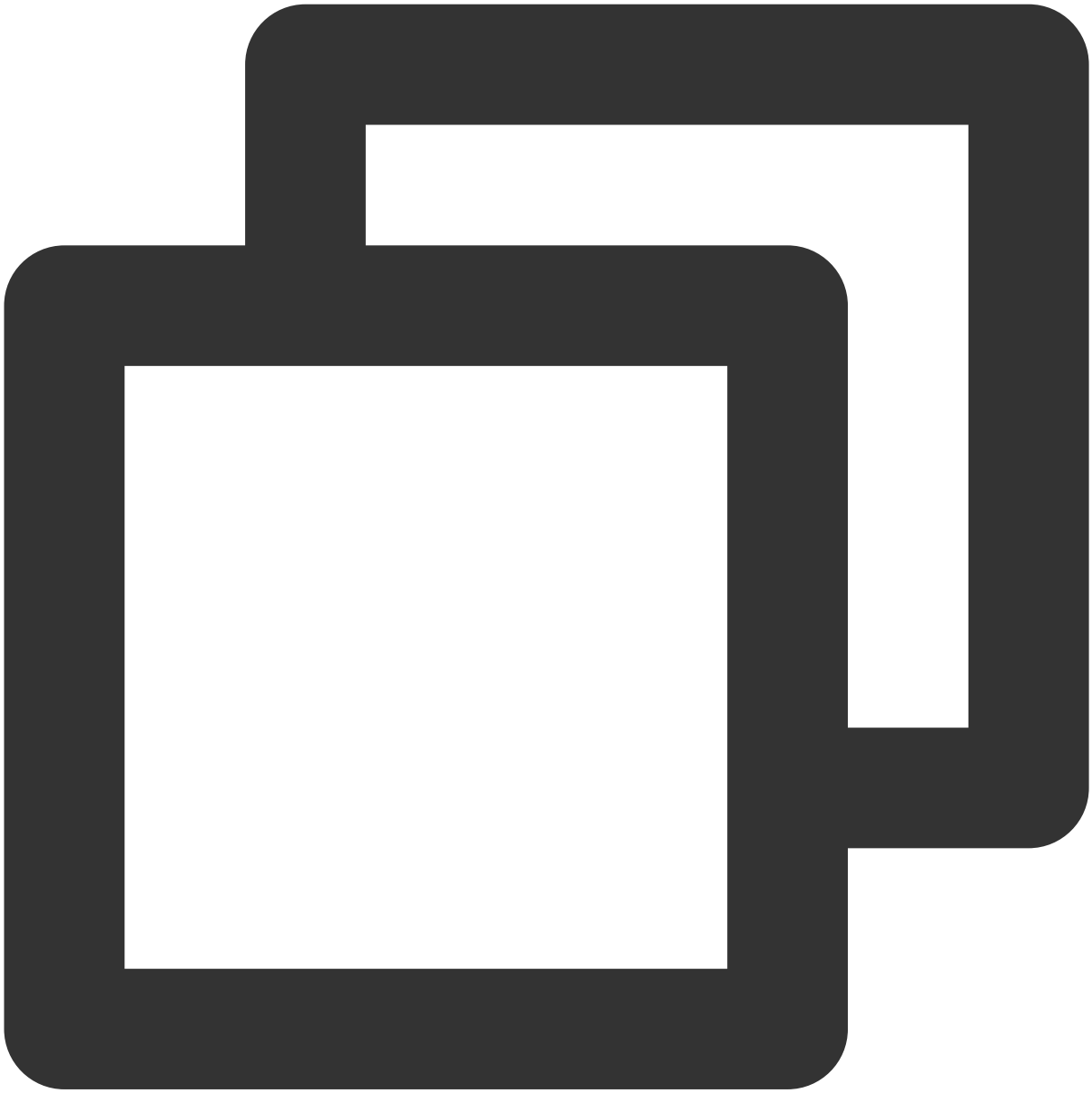

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Access-Control-Allow-Credentials: true
Access-Control-Allow-Headers: content-md5,content-type,x-cos-meta-author
Access-Control-Allow-Methods: PUT,GET,POST,DELETE,HEAD
Access-Control-Allow-Origin: https://example.com
Access-Control-Expose-Headers: Content-Length,ETag,x-cos-meta-author
Access-Control-Max-Age: 600
Date: Thu, 09 Jul 2020 14:49:22 GMT
Server: tencent-cos
```

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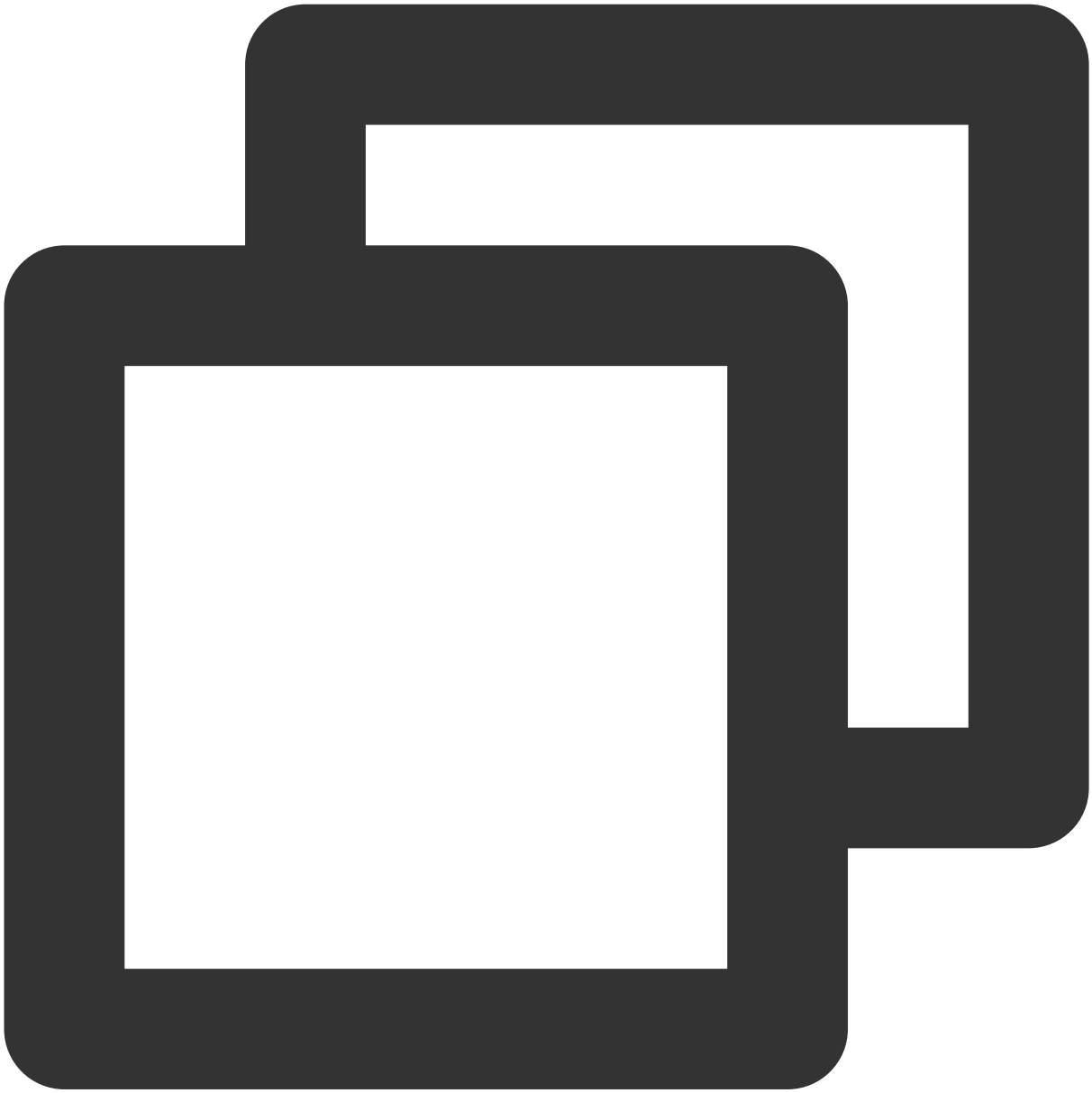
```
x-cos-request-id: NWYwNzJlNzJfODRjOTJhMDlfMjU0MWNfMTNmZDM5****
```

Example 2: initiating a preflight request when `GET Object` carries the `range` request header

Request



```
OPTIONS /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 09 Jul 2020 14:49:22 GMT
Origin: https://example.com
Access-Control-Request-Method: GET
```

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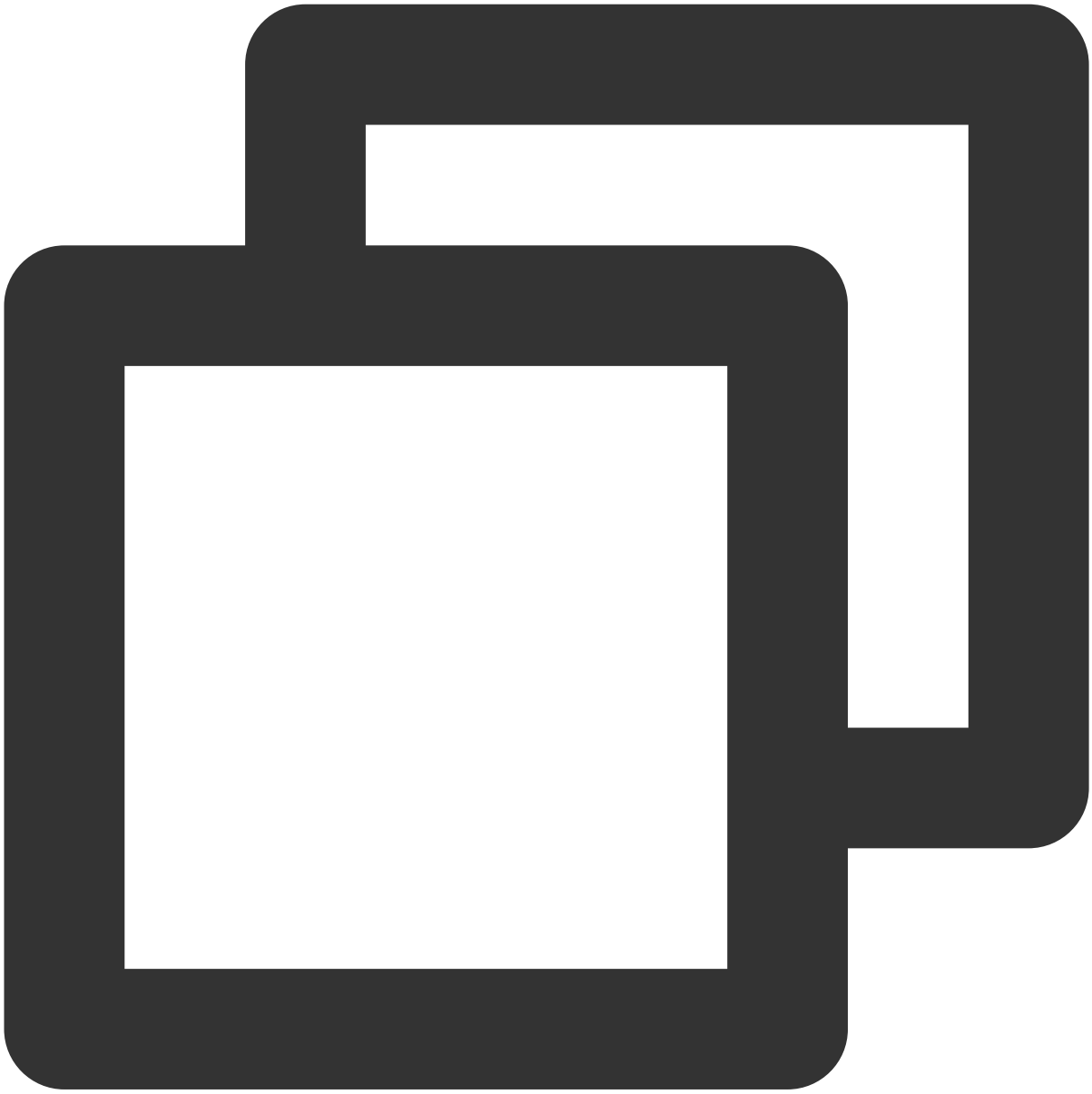
```
Access-Control-Request-Headers: range
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Access-Control-Allow-Headers: range,x-cos-server-side-encryption-customer-algorithm
Access-Control-Allow-Methods: GET,HEAD
Access-Control-Allow-Origin: *
```

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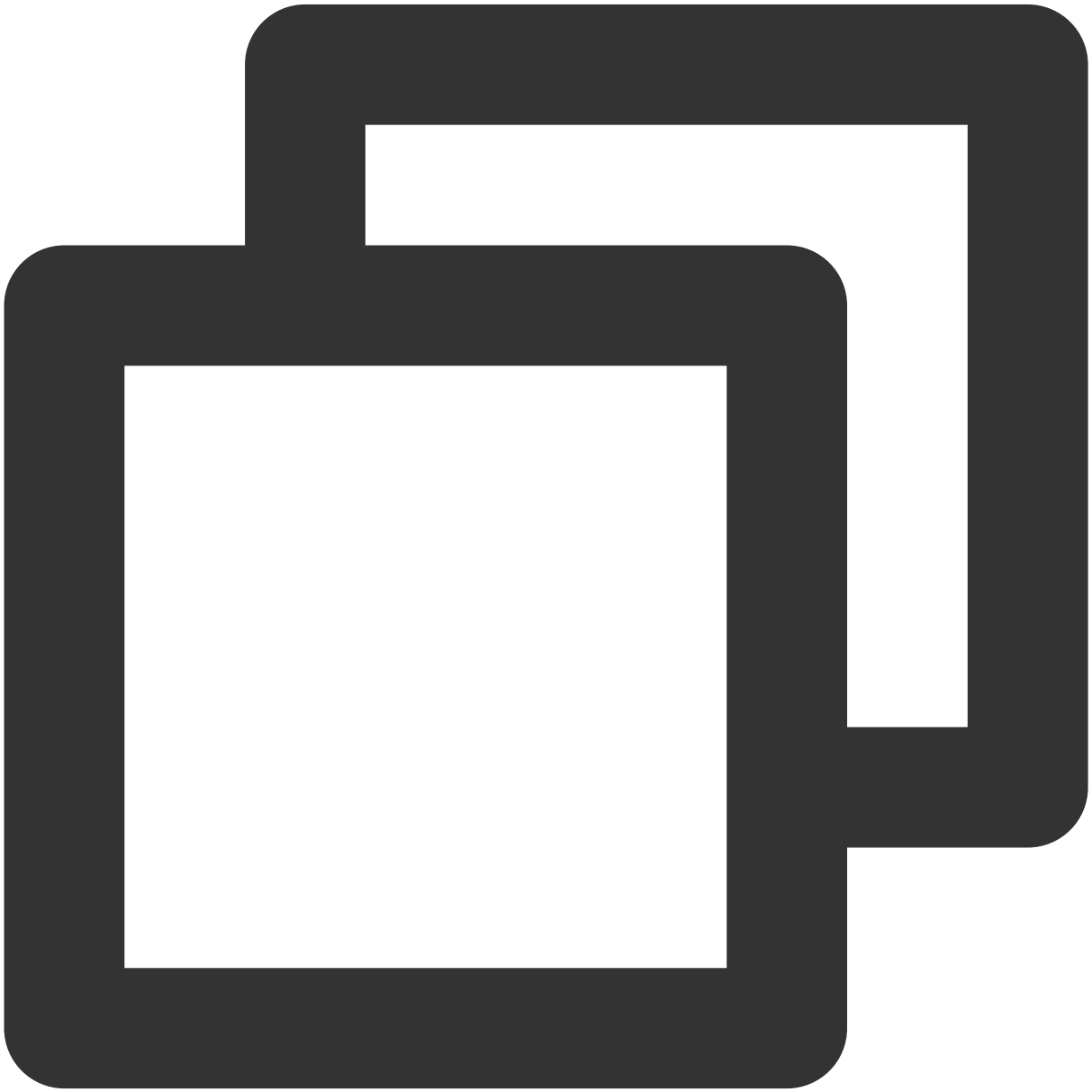
```
Access-Control-Expose-Headers: Content-Length,ETag,x-cos-meta-author
Access-Control-Max-Age: 600
Date: Thu, 09 Jul 2020 14:49:22 GMT
Server: tencent-cos
x-cos-request-id: NWYwNzJlNzJfZDUyNzVkNjRfYTA2Ml8yNGEz****
```

Example 3: initiating a preflight request for `PUT Bucket lifecycle`

Request



```
OPTIONS /?lifecycle HTTP/1.1
```

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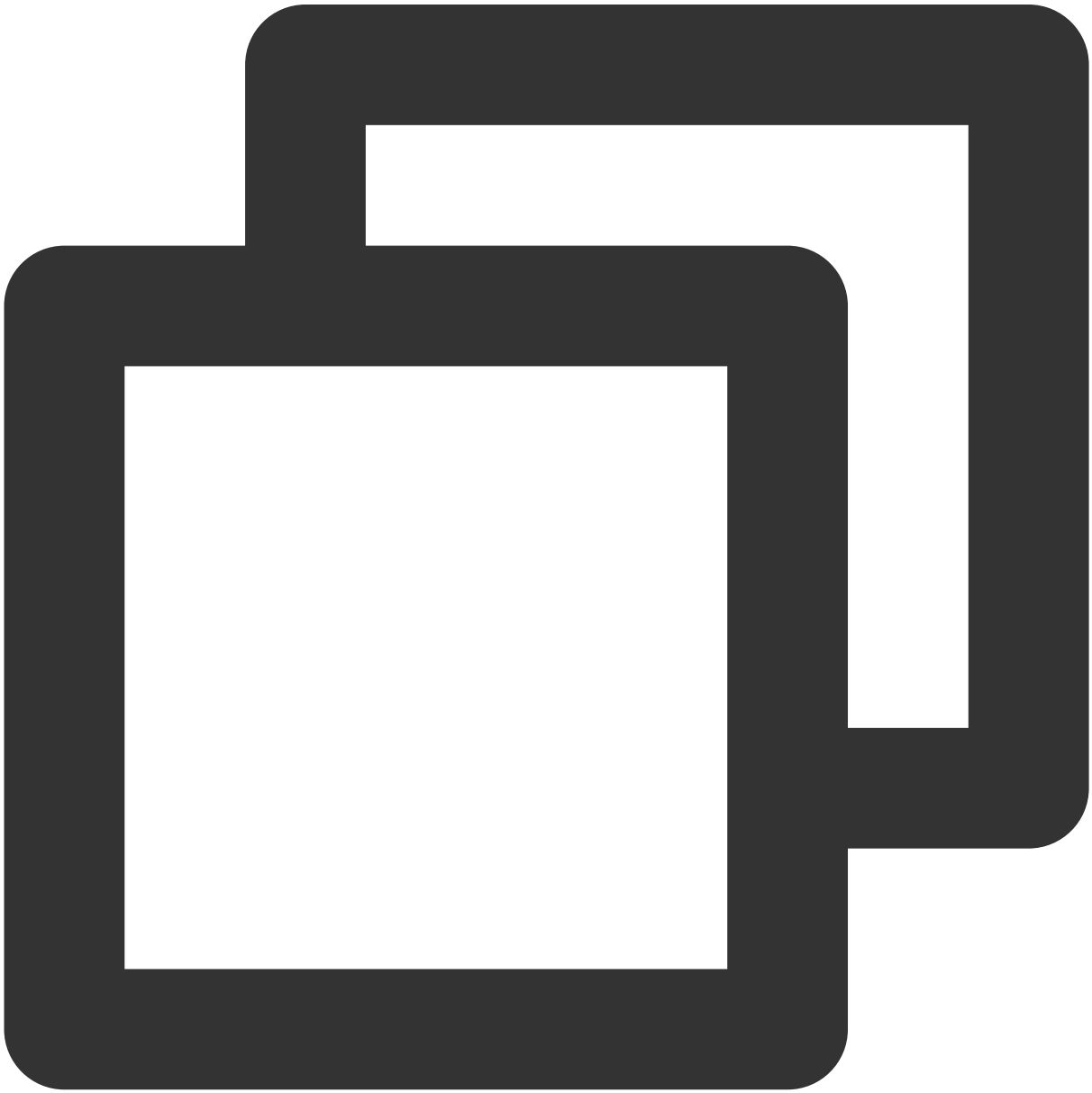
```
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 09 Jul 2020 14:29:40 GMT
Origin: https://bar.com
Access-Control-Request-Method: PUT
Access-Control-Request-Headers: content-md5,content-type
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
```

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```
Connection: close
Access-Control-Allow-Credentials: true
Access-Control-Allow-Headers: content-md5,content-type
Access-Control-Allow-Methods: PUT,GET,POST,DELETE,HEAD
Access-Control-Allow-Origin: https://bar.com
Access-Control-Expose-Headers: Content-Length,ETag,x-cos-meta-author
Access-Control-Max-Age: 600
Date: Thu, 09 Jul 2020 14:29:40 GMT
Server: tencent-cos
x-cos-request-id: NWYwNzI5ZDRfNjFiMDJhMDlfYzk2NF8xYmZl****
```

Example 4: bucket with no CORS configuration, or preflight request not matching the CORS configuration

Request

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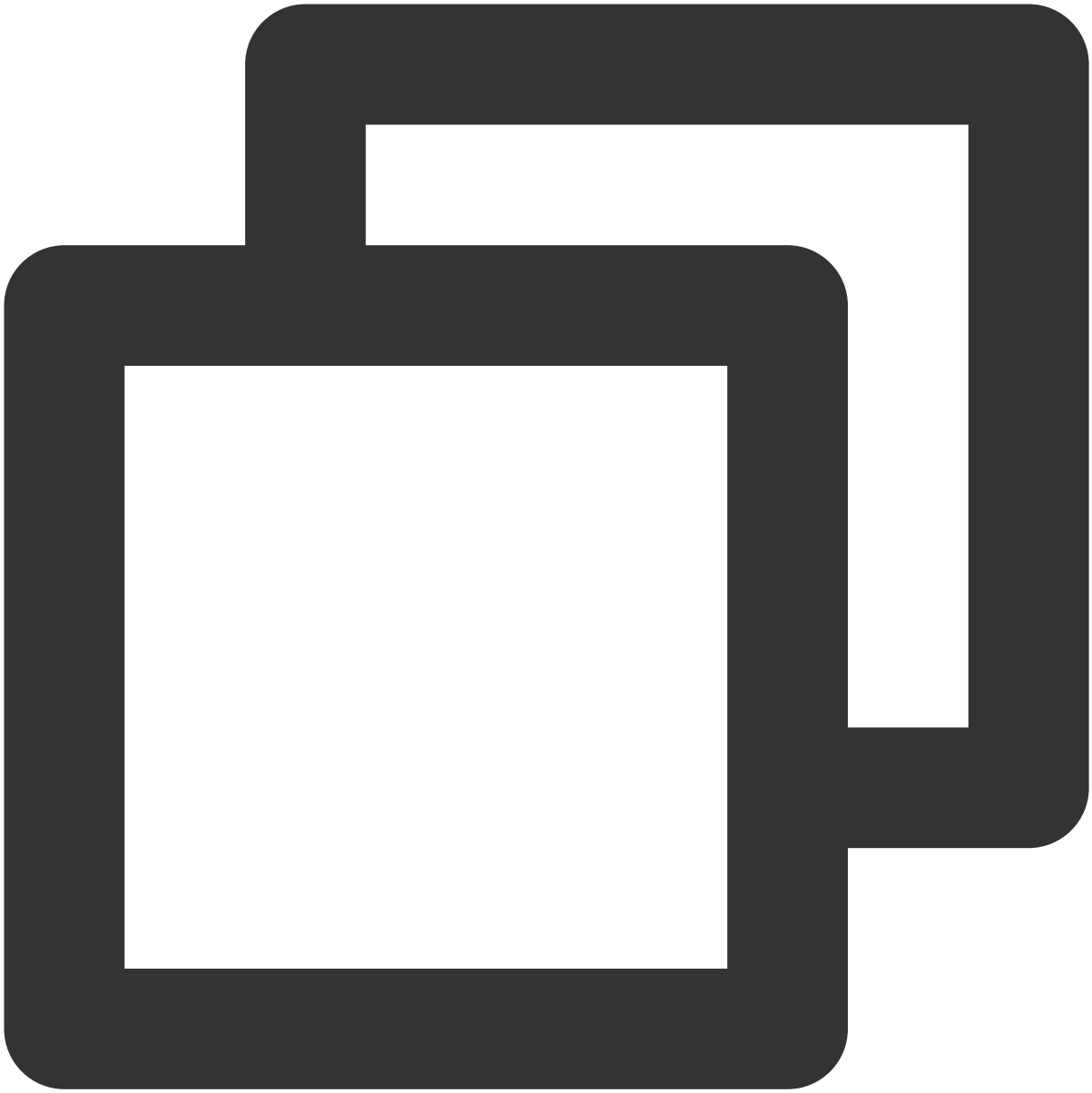

```
OPTIONS /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 09 Jul 2020 11:45:26 GMT
Origin: https://example.com
Access-Control-Request-Method: PUT
Connection: close
```

Response

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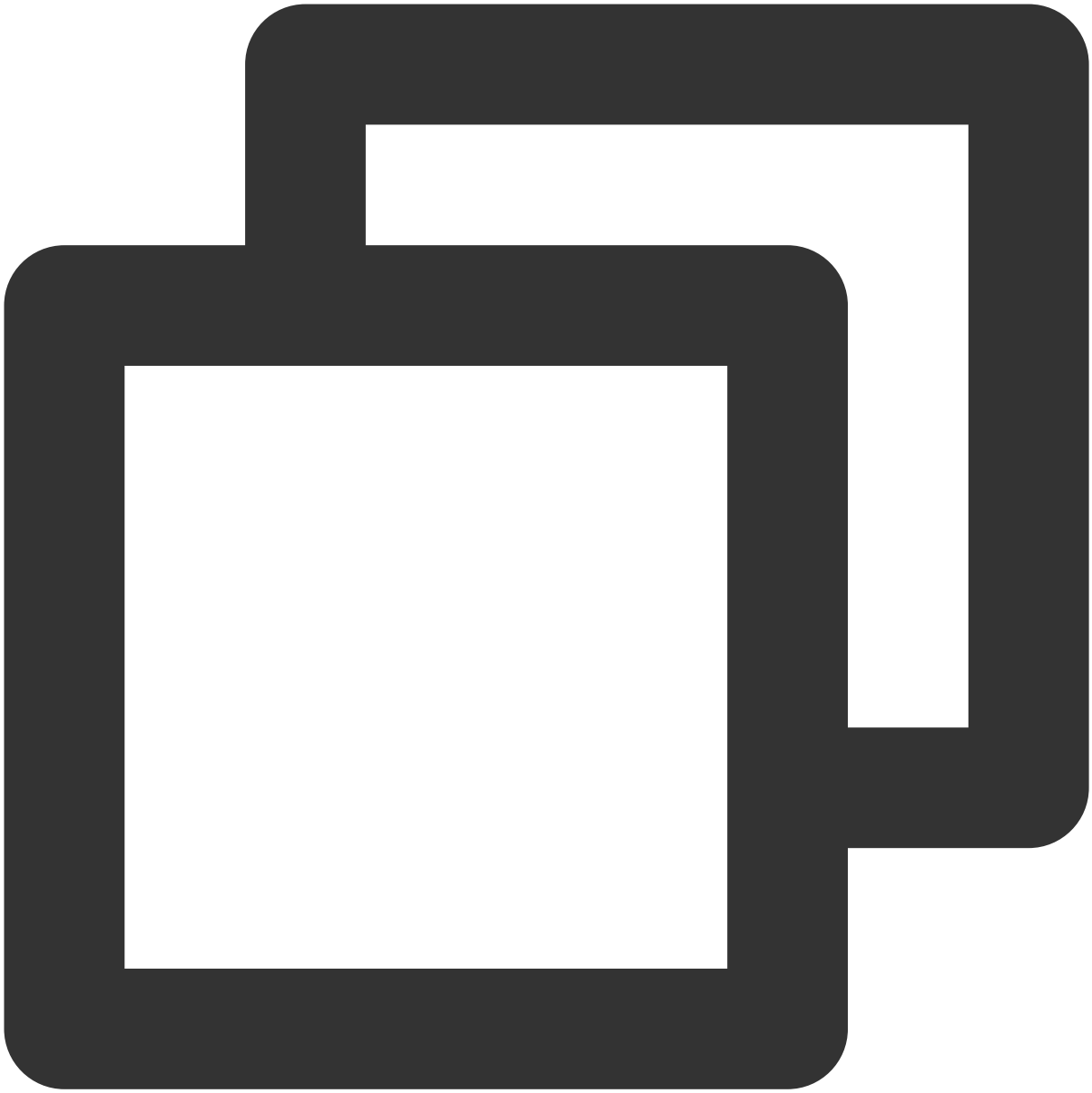

```
HTTP/1.1 403 Forbidden
Content-Type: application/xml
Content-Length: 687
Connection: close
Date: Thu, 09 Jul 2020 11:45:26 GMT
Server: tencent-cos
x-cos-request-id: NWYwNzAzNTZfNzNjODJhMDlfMzRiM2ZfMThjMjk4****
x-cos-trace-id: OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODc0OWRkZjk0ZDM1NmI1M2E2MTR

<?xml version='1.0' encoding='utf-8' ?>
<Error>
```

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```
    <Code>AccessForbidden</Code>
    <Message>CORSResponse: This CORS request is not allowed. This is usually becaus
    <Resource>examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject</R
    <RequestId>NWYwNzAzNTZfNzNjODJhMDlfMzRiM2ZfMThjMjk4****</RequestId>
    <TraceId>OGVmYzZiMmQzYjA2OWNhODk0NTRkMTBiOWVmMDAxODc0OWRkZjk0ZDM1NmI1M2E2MTRlY2
</Error>
```

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POST Object restore

Last updated：2024-06-12 15:10:38

Feature Description

The `POST Object restore` API allows you to send a request to restore an ARCHIVE/DEEP ARCHIVE object so that you can read it. The restored readable object is a temporary copy, for which you can set the readable status and the time to delete it through the `Days` parameter. If the time has elapsed and you haven't initiated a copy or extension operation, the temporary object will be automatically deleted. Temporary objects are only copies of the archived objects which always exist. For more information on the ARCHIVE storage class, see Overview.

Note:

The QPS of the `POST Object restore` API is limited to 100.

Versioning

If versioning is enabled, you can use the `versionId` parameter in your request to specify the ID of the version to be restored. If this parameter is not specified, the latest version will be restored.

Request

Sample request

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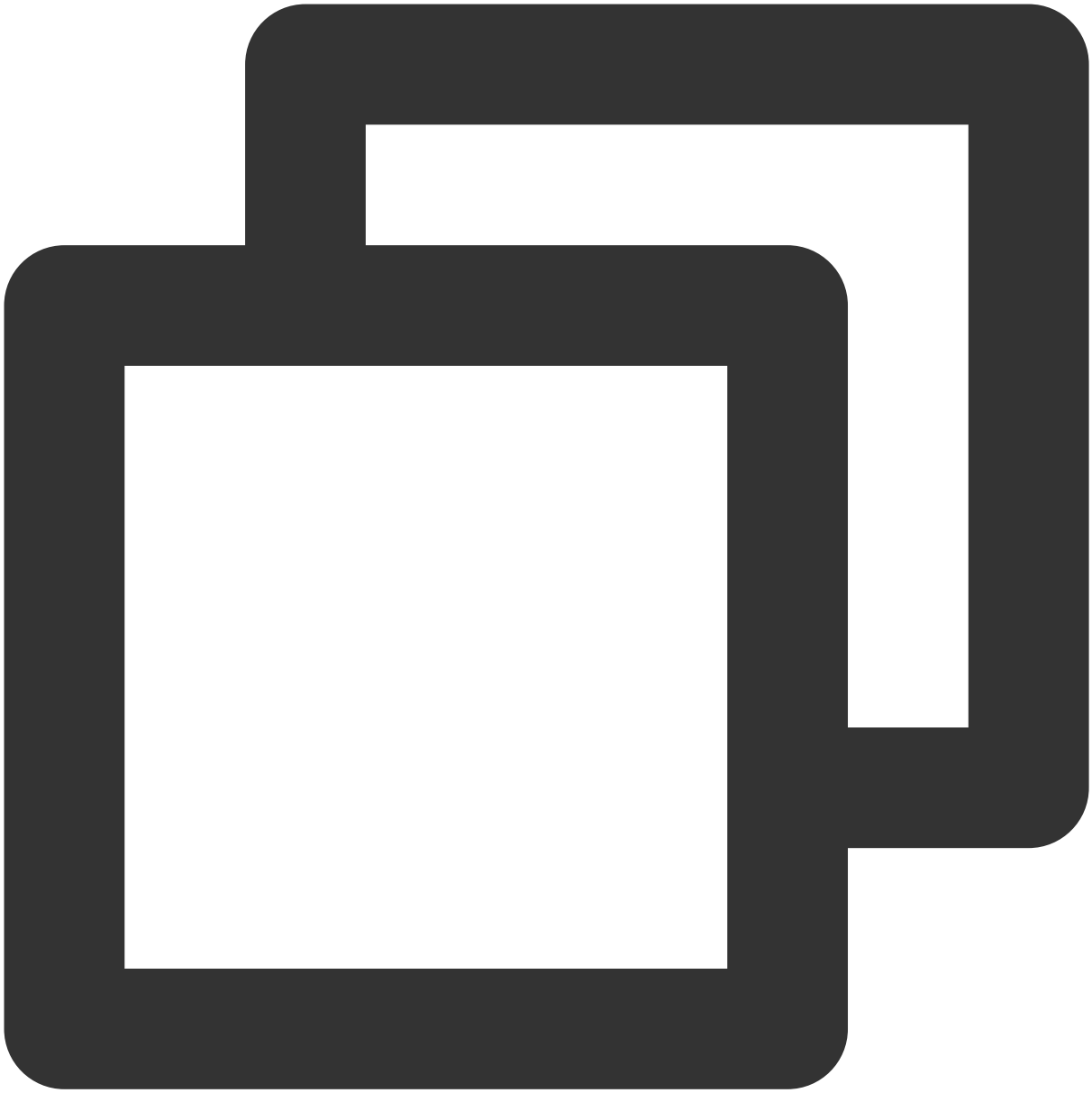

```
POST /<ObjectKey>?restore HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String



[Request Body]
```

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Note:

Host: <BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the bucket name followed by the `APPID` , such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (for more information, see Request Signature).

Request parameters

Field	Description	Type	Required
versionId	Specifies the version ID of the versioning-enabled object to restore. If this parameter is not specified, the latest version will be restored.	string	No

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

Submit **application/xml** request data, including specific parameters of the restoration operation.

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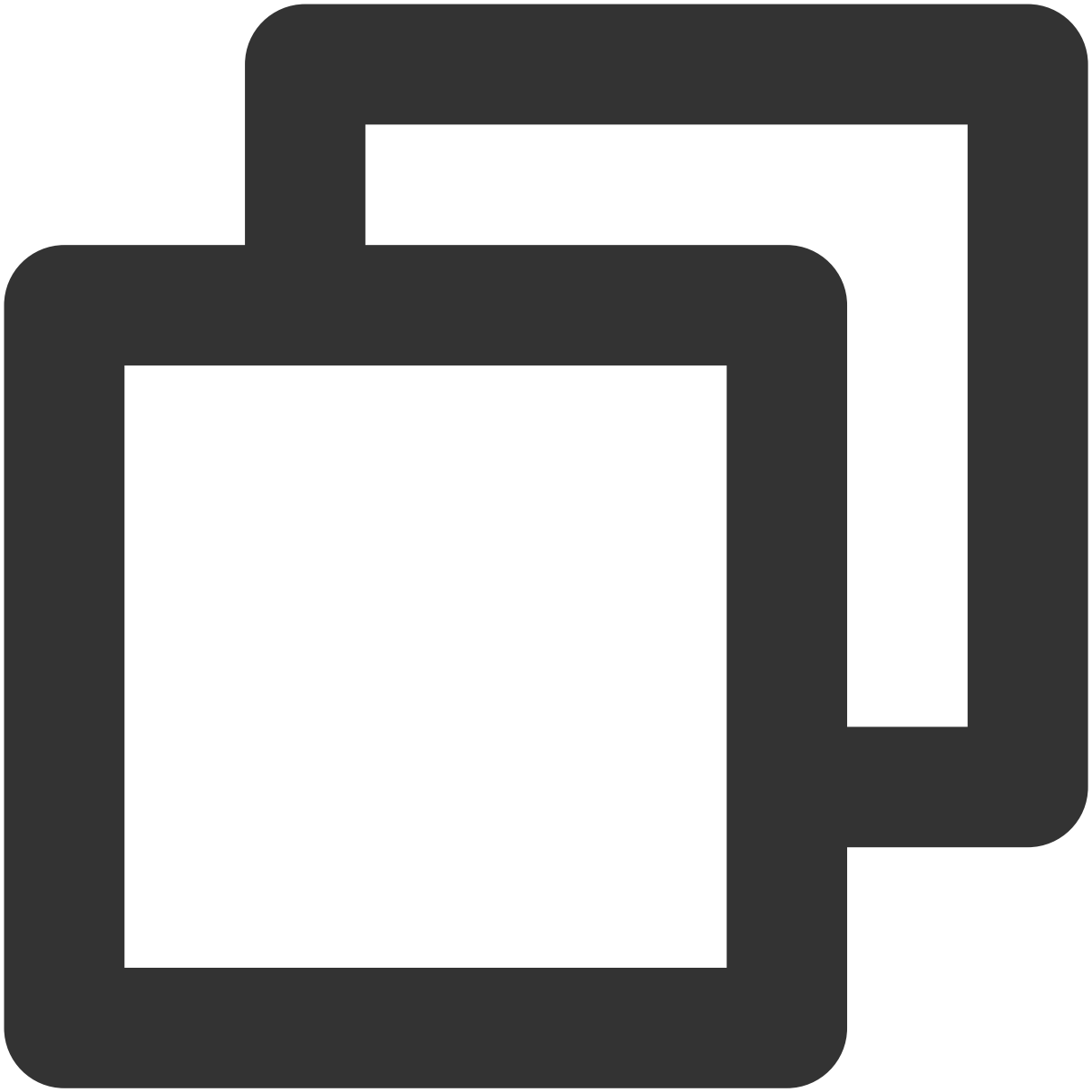

```
<RestoreRequest>
   <Days>number</Days>
   <CASJobParameters>
       <Tier>Enum</Tier>
   </CASJobParameters>
</RestoreRequest>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required

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RestoreRequest	None	Contains all the request information of `POST Object restore`.	Container	Yes

`RestoreRequest` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Days	RestoreRequest	Specifies the validity period (in days) of the restored temporary copy.	number	Yes
CASJobParameters	RestoreRequest	Restoration job parameter.	Container	Yes

`CASJobParameters` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tier	RestoreRequest.CASJobParameters	Specifies the restoration mode. The following three restoration modes are available for ARCHIVE objects: Expedited: Restores an object within 1–5 minutes. Standard: Restores an object within 3–5 hours. Bulk: Restores an object within 5–12 hours. The following two restoration modes are available for DEEP ARCHIVE objects: Standard: Restores an object within 12–24 hours. Bulk: Restores an object within 24–48 hours.	Enum	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

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The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Samples

Sample 1: Simple use case (with versioning disabled)

Request

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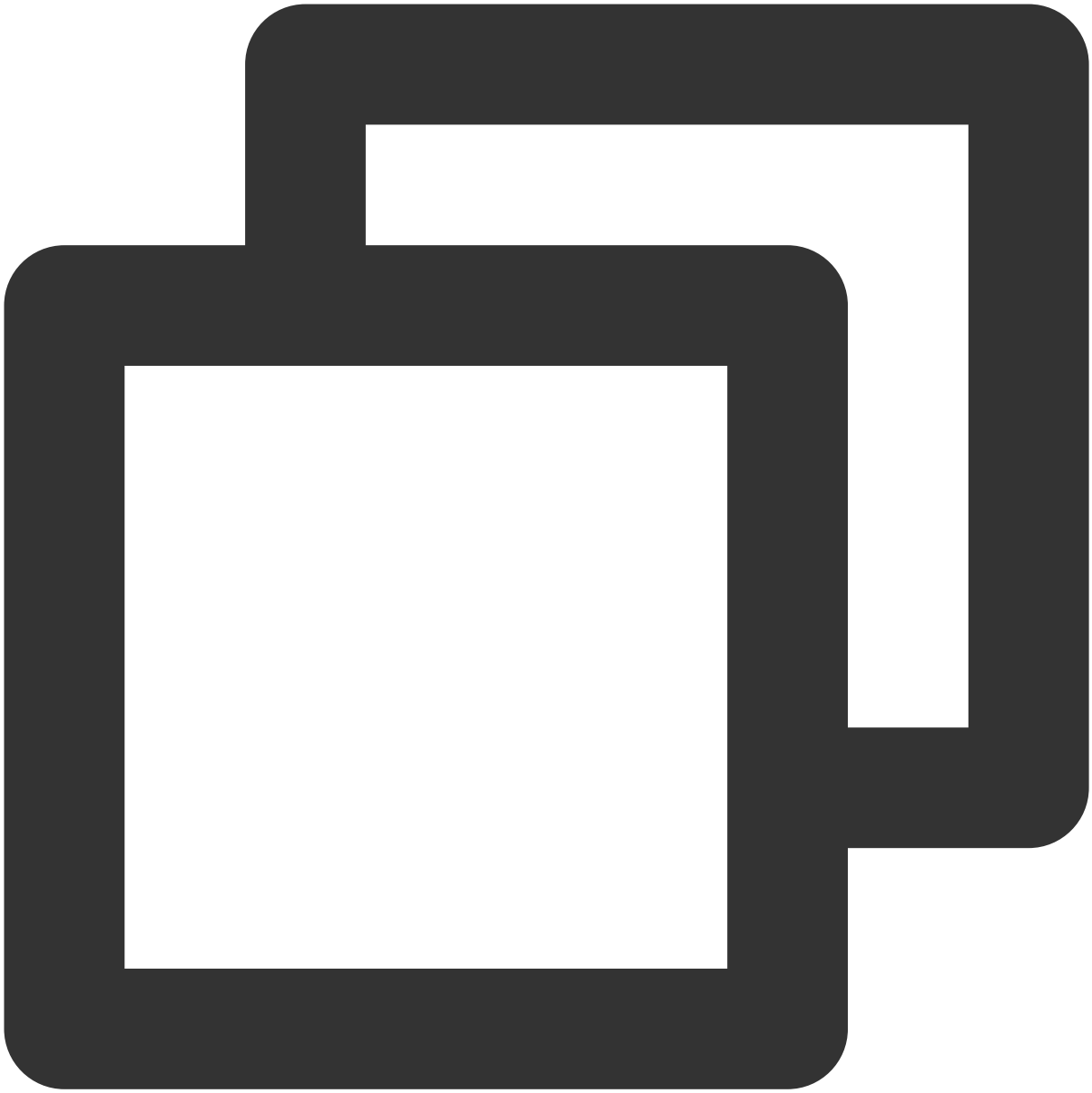

```
POST /exampleobject?restore HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 27 Dec 2019 08:19:29 GMT
Content-Type: application/xml
Content-Length: 121
Content-MD5: Nr7RAnRMgrplFvD8bt5+0w==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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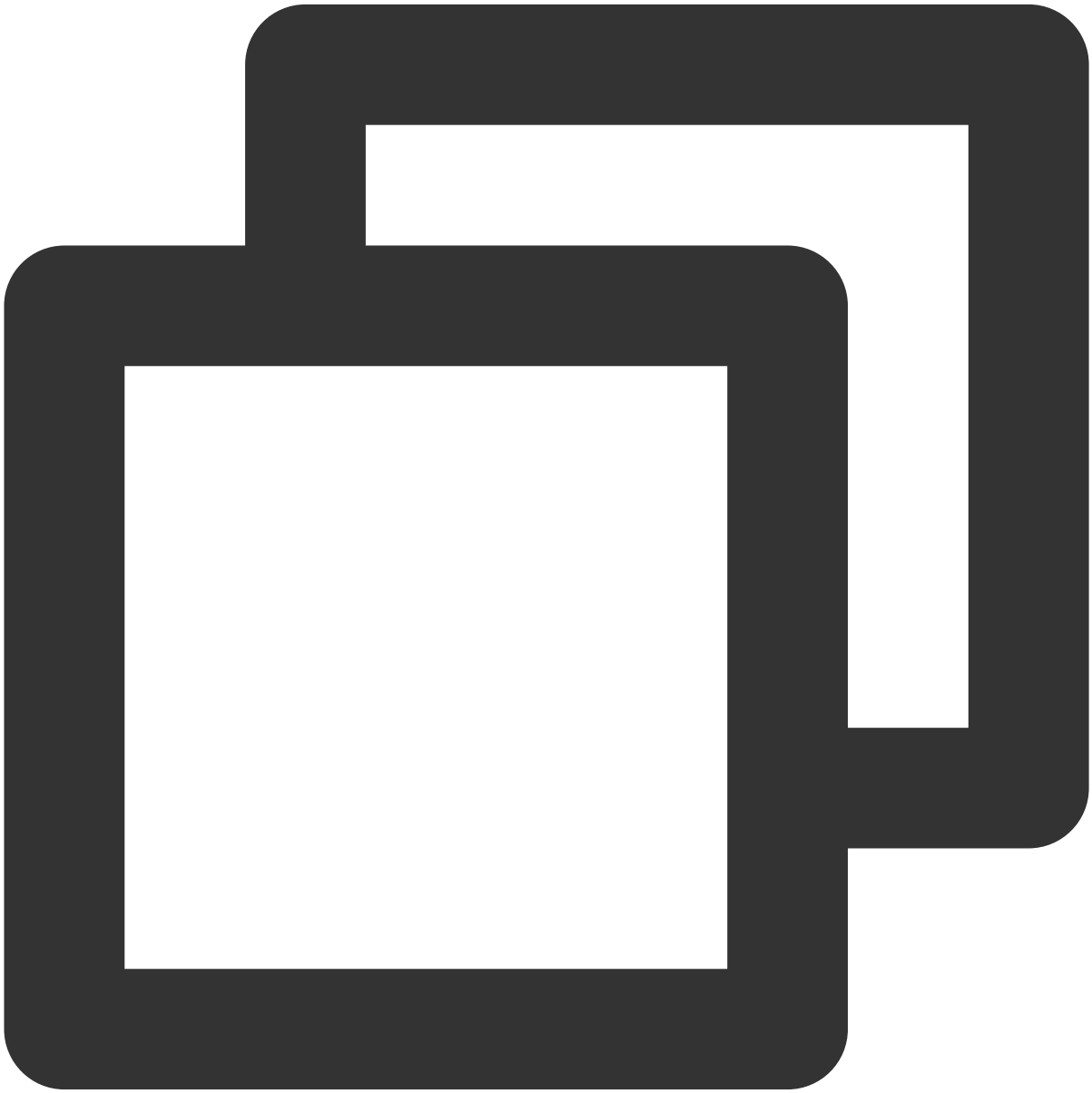
```
<RestoreRequest>
            <Days>1</Days>
            <CASJobParameters>
                <Tier>Expedited</Tier>
            </CASJobParameters>
</RestoreRequest>
```

Response



```
HTTP/1.1 202 Accepted
Content-Length: 0
```

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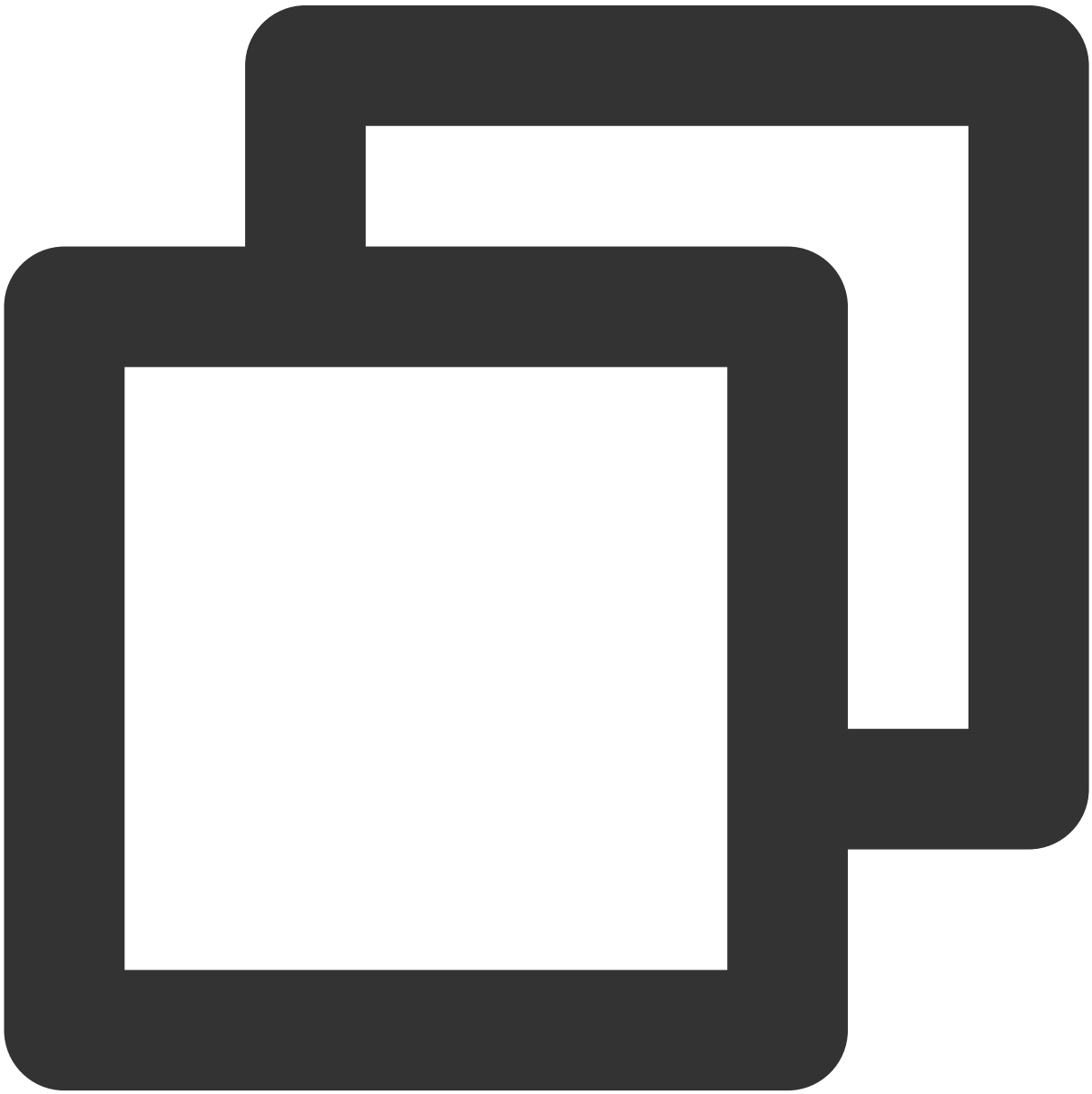
```
Connection: close
Date: Fri, 27 Dec 2019 08:19:29 GMT
Server: tencent-cos
x-cos-request-id: NWUwNWJlOTFfMjljOTBiMDlfMTQ2MmNfNzAw****
```

Sample 2: Restoring an object on a specific version (with versioning enabled)

Request



```
POST /exampleobject?restore&versionId=MTg0NDUxNjQ1NjM4OTkzNzY3NDk HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

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```
Date: Mon, 20 Jan 2020 08:43:40 GMT
Content-Type: application/xml
Content-Length: 121
Content-MD5: Nr7RAnRMgrplFvD8bt5+0w==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close



<RestoreRequest>
            <Days>1</Days>
            <CASJobParameters>
                <Tier>Expedited</Tier>
            </CASJobParameters>
</RestoreRequest>
```

Response

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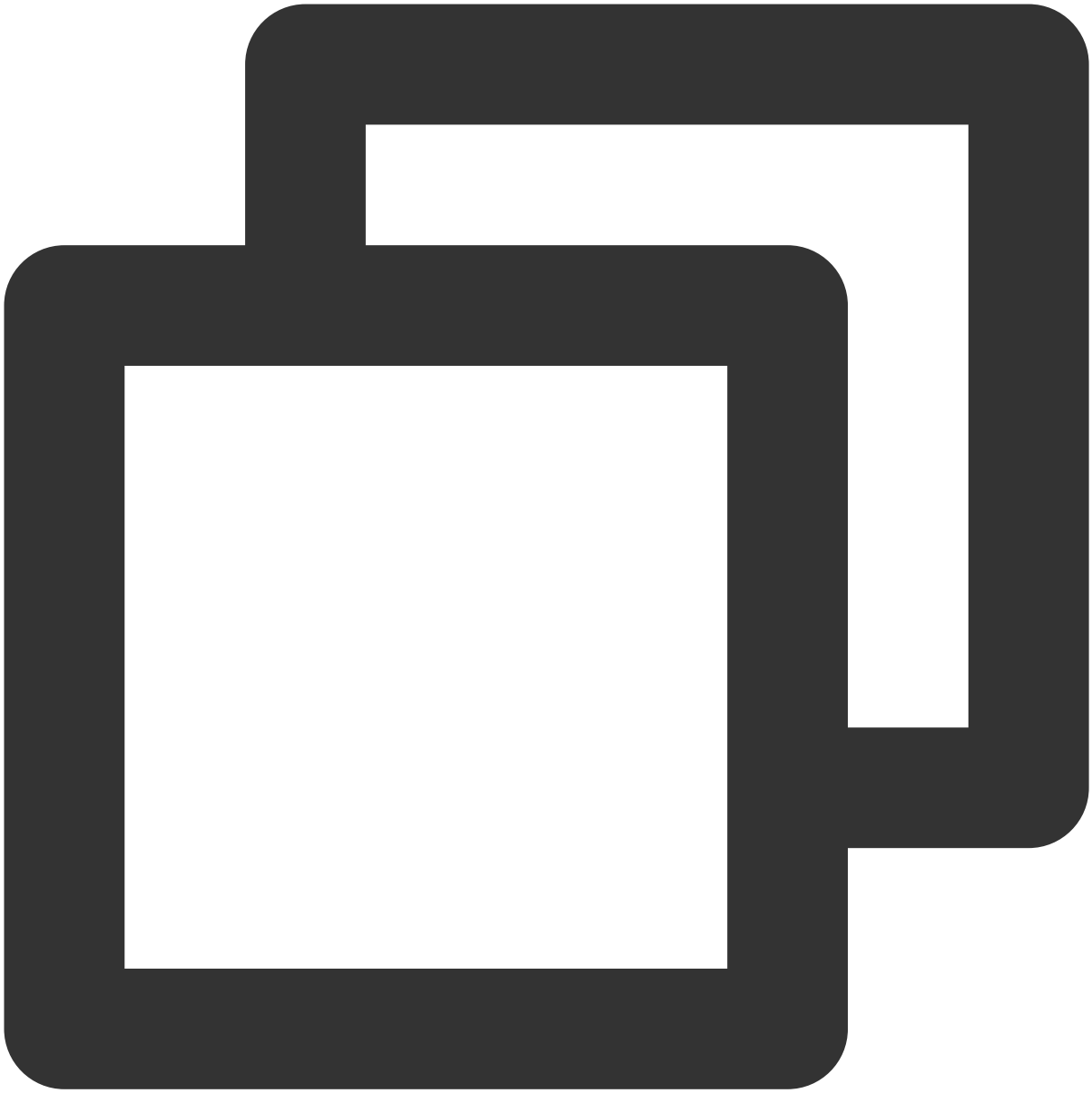

```
HTTP/1.1 202 Accepted
Content-Length: 0
Connection: close
Date: Mon, 20 Jan 2020 08:43:41 GMT
Server: tencent-cos
x-cos-request-id: NWUyNTY4M2NfZTNjODJhMDlfMWZkM2VfNWZm****
```

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APPEND Object

Last updated：2024-06-12 15:10:38

Overview

This API is used to upload an object to a bucket in the form of parts. If an object is uploaded using the `APPEND Object` API, it will be automatically determined as "appendable", while objects uploaded using other APIs are determined as "normal" (if you upload an object that already exists and the object type is appendable, the object type will be overwritten to "normal"). You can call the GET Object or HEAD Object API to obtain the `x-cos-object-type` header to determine the object type. `APPEND Object` is available only for appendable objects.
The default maximum size of each object part is 5 GB (no minimum size limit), and the size of the object uploaded using this API can be up to 5 GB. If the value of `position` is inconsistent with the object length, COS will return the 409 status code. If the object to append is of the "normal" type, COS will return "409 ObjectNotAppendable".
Note:
Appendable objects do not support replication, versioning, or lifecycle management.
The `APPEND` API does not verify the storage class carried in the request. The storage class will subject to that of the existing object.
The `APPEND Object` API is not available for the intelligent tiering feature.
Buckets with multi-AZ enabled do not support the `APPEND Object` API.

Request

Sample request

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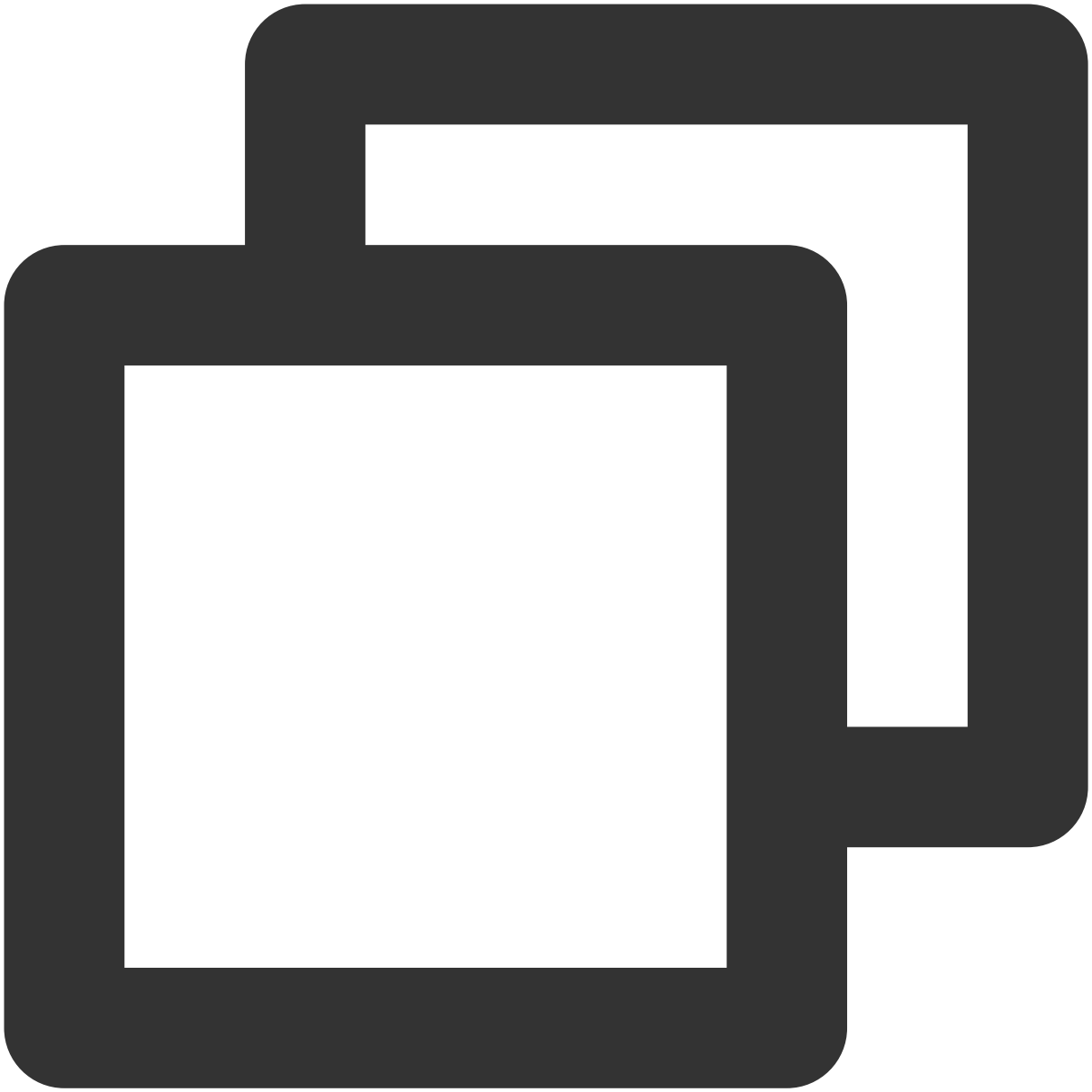

```
POST /ObjectName?append&position=*position* HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Content-Length: size
Content-Type: ContentType
Date: GMT Date
Authorization: Auth String
```

Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and

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Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

Common request headers

This API uses Common Request Headers.

Non-common request headers

Required headers

This API uses the following required header:

Header	Description	Type	Required
Content-Length	HTTP request length (in bytes) defined in RFC 2616	String	Yes

Recommended headers

This API uses the following recommended headers:

Node Name (Keyword)	Description	Type	Required
Cache-Control	Cache policy defined in RFC 2616. It will be returned as the object metadata.	String	No
Content-Disposition	Filename defined in RFC 2616. It will be returned as the object metadata.	String	No
Content-Encoding	Encoding format defined in RFC 2616. It will be returned as the object metadata.	String	No
Content-MD5	Base64-encoded MD5 checksum of the request body content defined in RFC 1864. This value is a 24-character string, such as `ZzD3iDJdrMAAb00lgLLeig==` , and is used to verify whether the request body experienced any changes during transfer.	String	No
Content-Type	Content type (MIME) defined in RFC 2616. It will be returned as the object metadata.	String	No
Expect	If `Expect: 100-continue` is used, the request content can only be sent after the server's confirmation.	String	No
Expires	Expiration time defined in RFC 2616. It will be returned as the object metadata.	String	No

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x-cos-meta- *	Customizable header. It will be returned as the object metadata of up to 2 KB	String	No

Permission-related headers

You can use the `x-cos-acl` header of the POST request to set the object access permission, which can be `public-read-write`, `public-read`, or `private` (default). You can also grant read, write, or read/write permission to a user explicitly. The content is described as follows:

Note:

For more information about ACL requests, see PUT Bucket acl.

Header	Description	Type	Required
x-cos-acl	Defines the ACL attribute of an object. Valid values: `private`, `public-read-write`, `public-read`. Default: `private`	String	No

x-cos-grant-read	Grants user the read permission, formatted as `x-cos-grant-read: id=" ",id=" "`.
	Granting permission to a sub-account:
	`id="qcs::cam::uin/<OwnerUin>:uin/<SubUin>"`
	Granting permission to the root account:
	`id="qcs::cam::uin/<OwnerUin>:uin/<OwnerUin>"`
		String	No

x-cos-grant-write	Grants user the write permission, formatted as `x-cos-grant-write: id=" ",id=" "`.
	Granting permission to a sub-account:
	`id="qcs::cam::uin/<OwnerUin>:uin/<SubUin>"`
	Granting permission to the root account:
	`id="qcs::cam::uin/<OwnerUin>:uin/<OwnerUin>"`
		String	No

x-cos-grant-full-control	Grants user the read/write permission, formatted as `x-cos-grant-full-control: id=" ",id=" "`.
	Granting permission to a sub-account:
	`id="qcs::cam::uin/<OwnerUin>:uin/<SubUin>"`
	Granting permission to the root account:
	`id="qcs::cam::uin/<OwnerUin>:uin/<OwnerUin>"`
		String	No

Request parameters

The parameter is described as follows:

Parameter	Description	Type	Required
position	Starting point for the append operation (in bytes). For the first append,	Int	Yes

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	the value of this parameter is 0. For subsequent appends, the value is the `content-length` of the current object.		

Request body

The request body of this request is empty.

Response

Response headers

Common response headers

This response uses Common Response Headers.

Non-common response headers

The response headers of this request are as follows:

Node Name (Keyword)	Description	Type
x-cos-next-append-position	Start point of the next append operation, in bytes	String
ETag	Unique identifier of the object	String

Response body

The response body returned is empty.

Error codes

If you perform an append operation on a non-appendable object, the "409 Conflict" error will be returned. The error message is as follows:
The operation is not valid for the current state of the object.
If the request does not contain the `position` parameter, the "400 Bad Request" error will be returned. The error message is InvalidArgument.
If the request does not contain the `Content-Length` header, the "411 Length Required" error will be returned. The error message is as follows:
You must provide the Content-Length HTTP header.
For more information about COS error codes or the complete list of error codes, see Error Codes.

Examples

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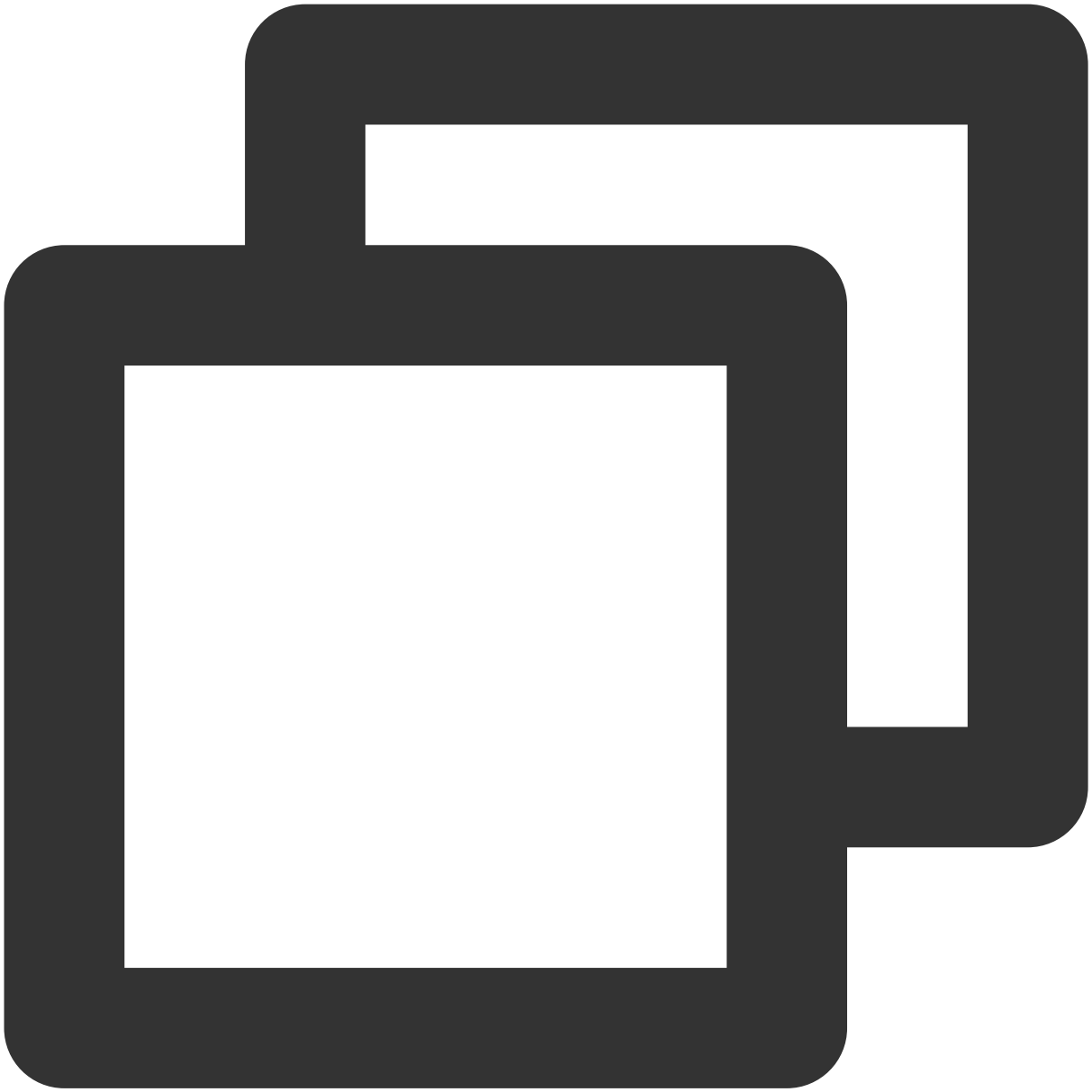
Request



```
POST /coss3/app?append&position=0 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 16 Jan 2016 21:32:00 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDDNMEycgLRPI2axw9xa2Hhx87wZ3M****&q-si
Content-Length: 4096

[Object]
```

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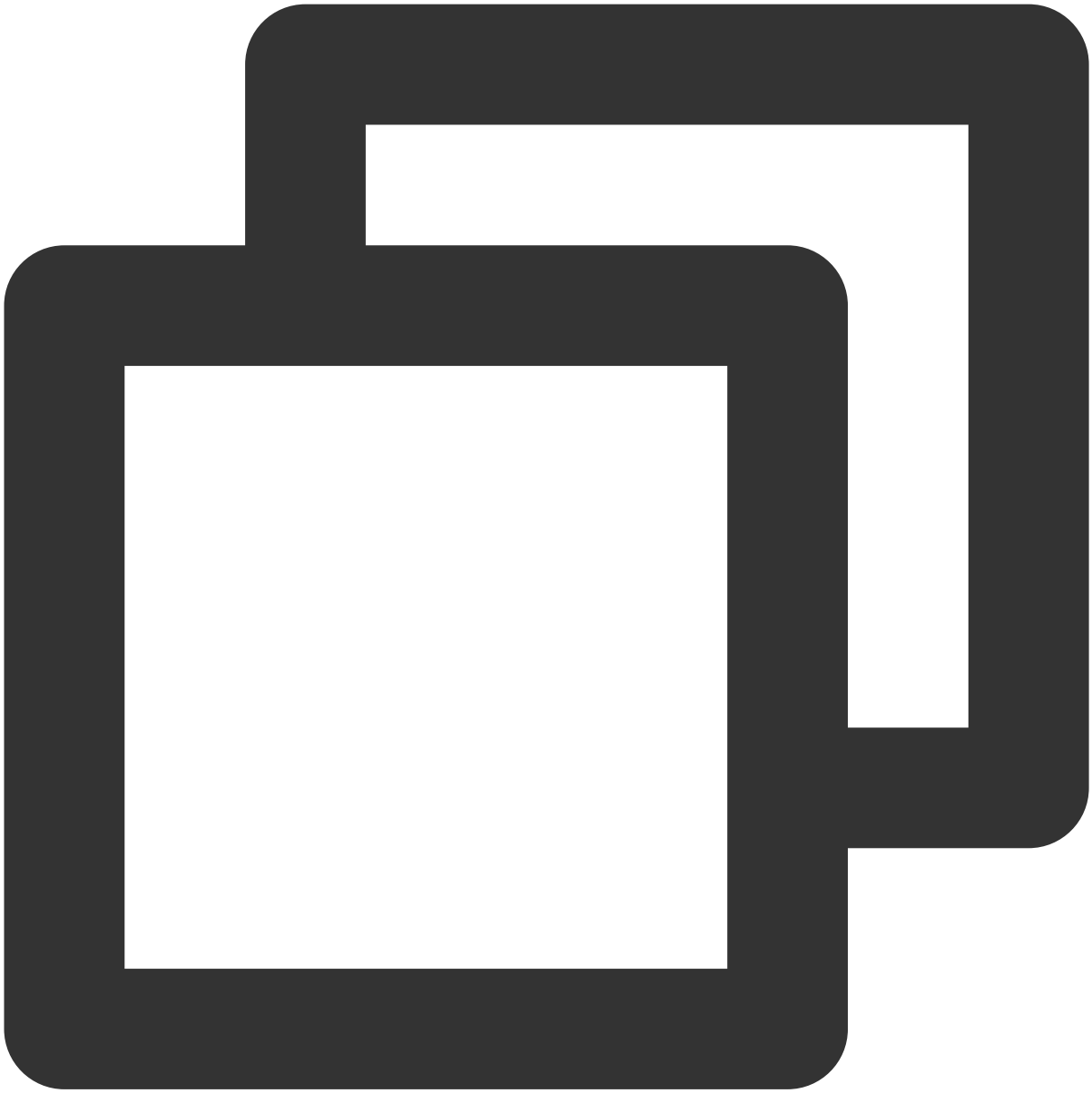
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Tue, 16 Jan 2016 21:32:00 GMT
ETag: 1ce5b469b7d6600ecc2fd112e570917b
Server: tencent-cos
x-cos-content-sha1: 1ceaf73df40e531df3bfb26b4fb7cd95fb7bff1d
x-cos-next-append-position: 4096
```

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```
x-cos-request-id: NTg3NzNhZGZfMmM4OGY3X2I2Zl8x****
```

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SELECT Object Content

Last updated：2024-06-12 15:10:38

Overview

This API is used to extract content from a CSV/JSON/Parquet object with Structured Query Language (SQL) statements. During the extraction process, you need to specify the content delimiter and use an appropriate SQL function. COS Select will return the matching extraction result, and you can specify a format to save the result.
For more information about COS Select, please see COS Select Overview. You can also see SELECT Command in Developer Guide to learn about the SQL expressions for COS Select.

Note:

Currently, this API (`Select Object Content`) supports only virtual-hosted-style requests, but not path-style requests.

Permission restrictions

To use COS Select, you must have the `cos:GetObject` permission.
The root account has this permission by default.
Sub-accounts need to contact the root account for permission. For more information about permission settings, please see Granting Sub-accounts Access to COS.

Object formats

COS Select supports extracting content from objects in the following formats:
CSV: The object's data records are separated by a specific delimiter.
JSON: either a JSON file or a JSON list
Parquet: It can contain nested structures.

Note:

To use COS Select, the object must be UTF-8 encoded.
COS Select supports extracting CSV or JSON objects that are compressed with GZIP or bzip2, and Parquet objects that are compressed with GZIP or Snappy.
COS Select supports extracting data from objects encrypted with SSE-COS.

Requests

Sample request

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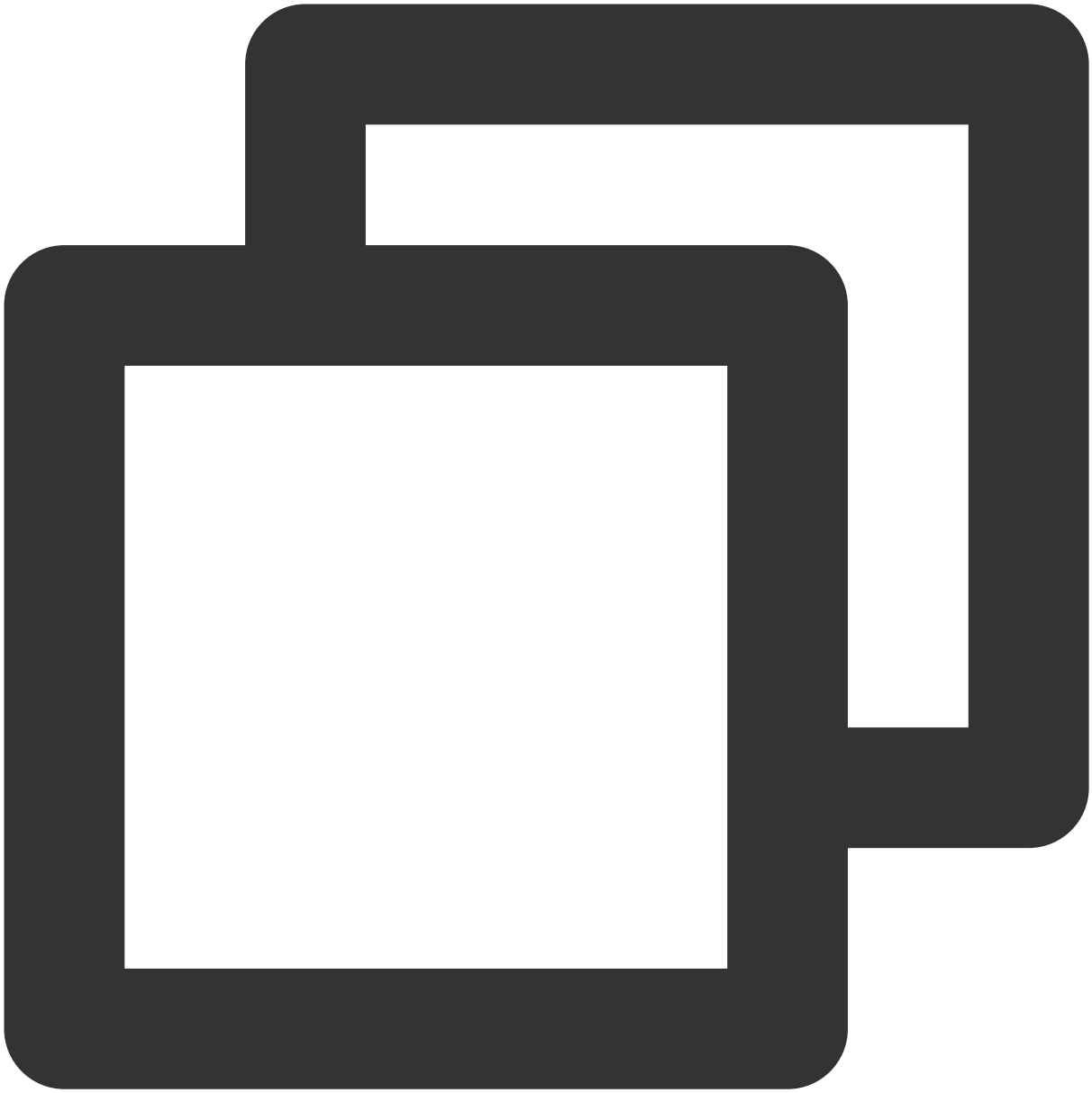

```
POST /<ObjectKey>?select&select-type=2 HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: date
Authorization: Auth String

Request body
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com` ,<BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

The request parameters `select` and `select-type=2` are required, where the former represents a select request and the latter represents the version of this API.

Request headers

This API only uses Common Request Headers.

Request body

The following COS Select request extracts all content of a CSV object and saves the result in CSV format:

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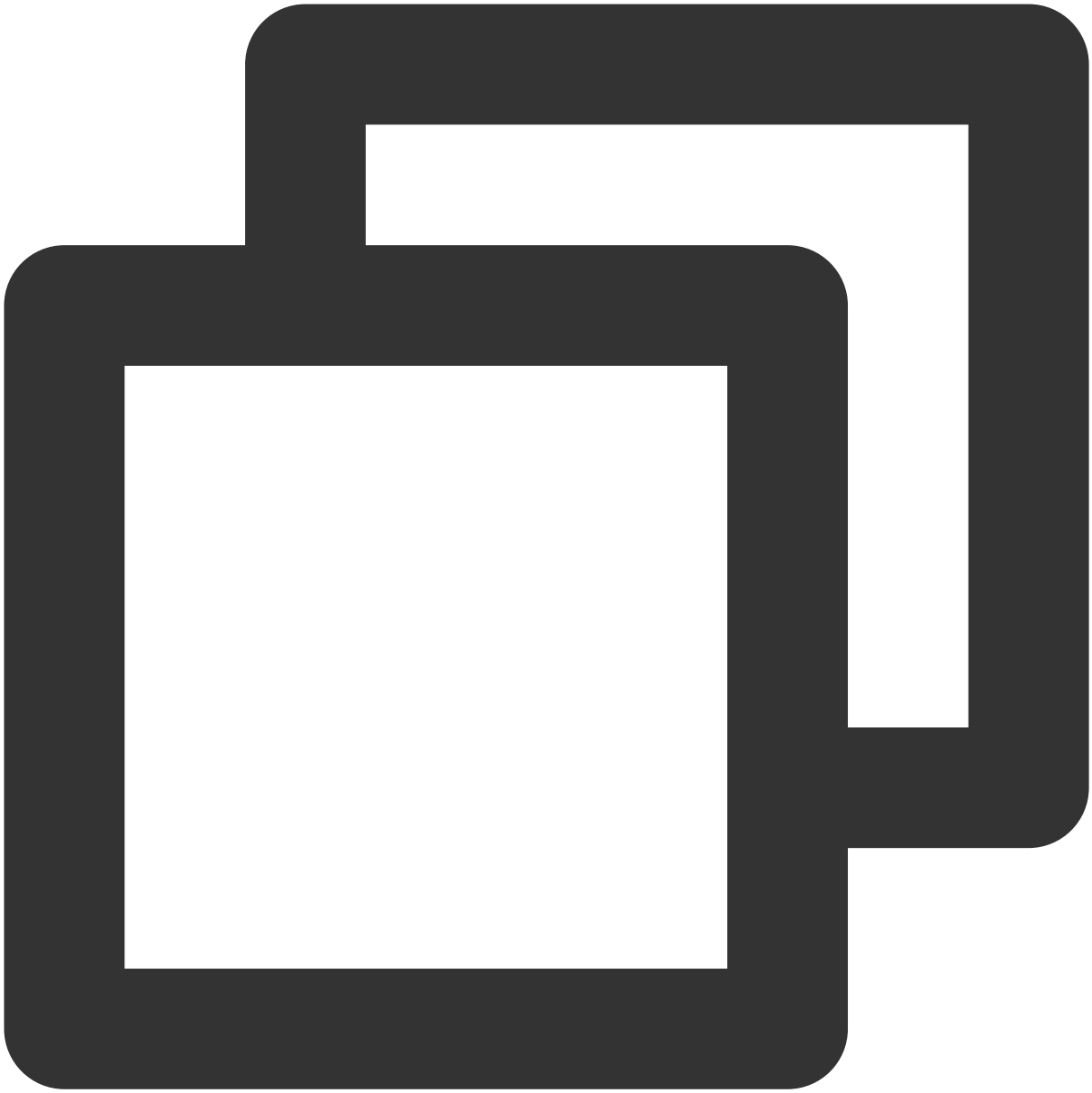

```
<?xml version="1.0" encoding="UTF-8"?>
<SelectRequest>
    <Expression>Select * from COSObject</Expression>
    <ExpressionType>SQL</ExpressionType>
    <InputSerialization>
        <CompressionType>GZIP</CompressionType>
        <CSV>
            <FileHeaderInfo>IGNORE</FileHeaderInfo>
            <RecordDelimiter>\\n</RecordDelimiter>
            <FieldDelimiter>,</FieldDelimiter>
            <QuoteCharacter>"</QuoteCharacter>
```

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```
            <QuoteEscapeCharacter>"</QuoteEscapeCharacter>
            <Comments>#</Comments>
            <AllowQuotedRecordDelimiter>FALSE</AllowQuotedRecordDelimiter>
        </CSV>
    </InputSerialization>
    <OutputSerialization>
        <CSV>
            <QuoteFields>ASNEEDED</QuoteFields>
            <RecordDelimiter>\\n</RecordDelimiter>
            <FieldDelimiter>,</FieldDelimiter>
            <QuoteCharacter>"</QuoteCharacter>
            <QuoteEscapeCharacter>"</QuoteEscapeCharacter>
        </CSV>
    </OutputSerialization>
    <RequestProgress>
        <Enabled>FALSE</Enabled>
    </RequestProgress>
</SelectRequest>
```

The following COS Select request extracts all content of a JSON object and saves the result in JSON format:

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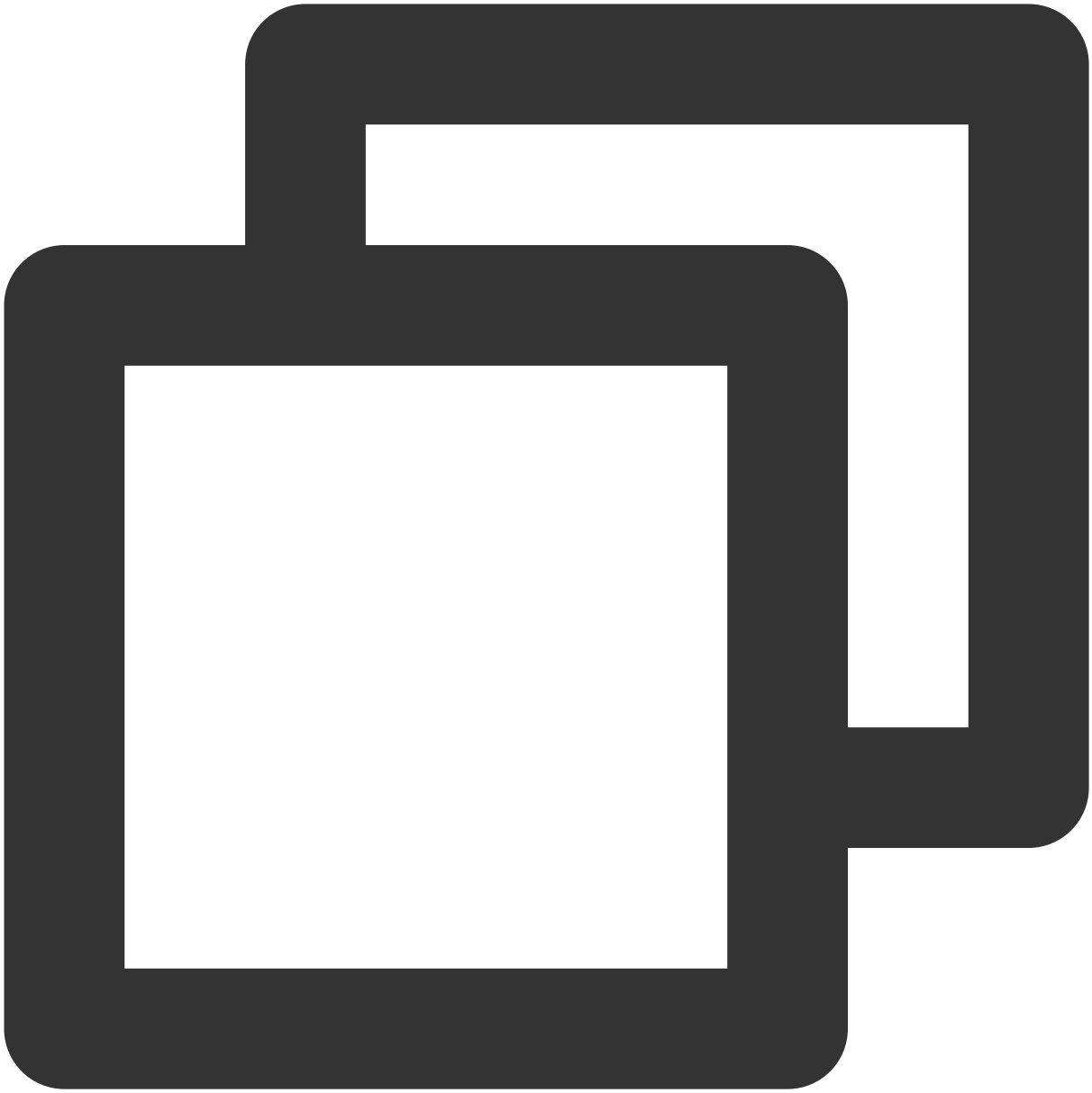

```
<?xml version="1.0" encoding="UTF-8"?>
<SelectRequest>
    <Expression>Select * from COSObject</Expression>
    <ExpressionType>SQL</ExpressionType>
    <InputSerialization>
        <CompressionType>GZIP</CompressionType>
        <JSON>
            <Type>DOCUMENT</Type>
        </JSON>
    </InputSerialization>
    <OutputSerialization>
```

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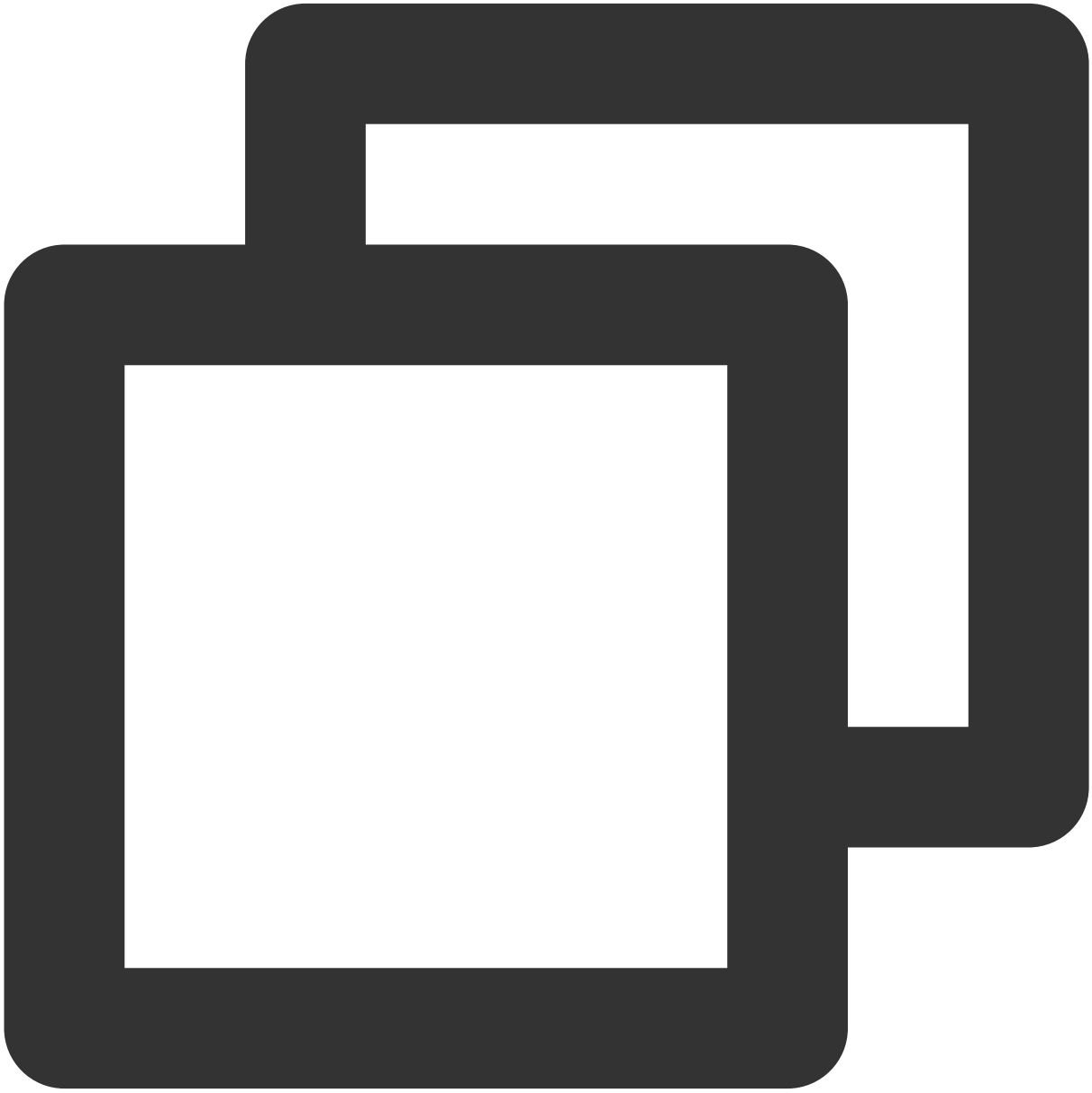
```
        <JSON>
            <RecordDelimiter>\\n</RecordDelimiter>
        </JSON>
    </OutputSerialization>
    <RequestProgress>
        <Enabled>FALSE</Enabled>
    </RequestProgress>
</SelectRequest>
```

The following COS Select request extracts all content of a Parquet object and saves the result in JSON format:



```
<?xml version="1.0" encoding="UTF-8"?>
```

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```
<SelectRequest>
    <Expression>Select * from COSObject</Expression>
    <ExpressionType>SQL</ExpressionType>
    <InputSerialization>
        <CompressionType>GZIP</CompressionType>
        <Parquet>
        </Parquet>
    </InputSerialization>
    <OutputSerialization>
        <JSON>
            <RecordDelimiter>\\n</RecordDelimiter>
        </JSON>
    </OutputSerialization>
    <RequestProgress>
        <Enabled>FALSE</Enabled>
    </RequestProgress>
</SelectRequest>
```

Note:

`InputSerialization` (required) specifies the format of the object to extract. It can be set to `CSV`, `JSON`, or `Parquet`.

`OutputSerialization` specifies the format to save the extraction result. It can be set to `CSV` or `JSON`.

The formats of the object to extract and the extraction result do not need to be the same. For example, you may extract data from a JSON object and save the extraction result in CSV format.

The following table describes all nodes in the request body:

Node Name	Parent Node	Description	Type	Required
Expression	SelectRequest	An SQL expression for the extraction. For example, `SELECT s._1 FROM COSObject s` extracts the first column of data from a CSV object. For more information about SQL expressions, please see SELECT Command.	String	Yes
ExpressionType	SelectRequest	Expression type. This parameter is an extension. Currently, only SQL expressions and parameters are supported.	String	Yes
InputSerialization	SelectRequest	Format of the object to extract	Container	Yes
OutputSerialization	SelectRequest	Format to save the extraction result	Container	Yes
RequestProgress	SelectRequest	Whether to return the query progress (`QueryProgress`). If this feature is	Container	No

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		enabled, COS Select will return the query progress periodically.		

Content of `InputSerialization`

Node Name	Parent Node	Description	Type	Required
CompressionType	InputSerialization	Compression type of the object to extract. If the object is not compressed, set this parameter to `NONE` (default). Otherwise, set it to `GZIP` or `BZIP2`, which are the only two compression types supported by COS Select.	String	No
CSV/JSON/PARQUET	InputSerialization	Parameters required for each object format. For example, if the object format is CSV, the delimiter needs to be specified.	Container	Yes

Content of `CSV` (a subnode of `InputSerialization`)

Node Name	Parent Node	Description	Type	Required
RecordDelimiter	CSV	A delimiter that separates data records of the CSV object into multiple rows. You can set this parameter to any octal character such as a comma (,), semicolon (:), or tab. The delimiter can be up to 2 bytes, which means that delimiters such as `\\r\\n` are supported. Default value: `\\n`	String	No
FieldDelimiter	CSV	A delimiter that separates data records into multiple columns for each row. You can set this parameter to any octal character. This parameter can be up to 1 byte. Default value: `,`	String	No
QuoteCharacter	CSV	If a string in the CSV object to extract contains delimiters, you can use this parameter as the escape so that the string will not be interpreted as several parts. The default value is `"`. For	String	No

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		example, if the object contains the string `"a, b"`, the double quotation marks can prevent the string from being interpreted as two separate characters `a` and `b`.		
QuoteEscapeCharacter	CSV	If the string to extract contains `"`, use another `"` as the escape so that the string can be interpreted. For example, the string `""" a , b """` will be parsed as `" a , b "`. Default value: `"`	String	No
AllowQuotedRecordDelimiter	CSV	Whether the object contains characters that are identical with the delimiter and need to be escaped with `"TRUE`: yes (compromises extraction performance) `FALSE` (default): no	Boolean	No
FileHeaderInfo	CSV	Whether the object to extract contains a column header. Valid values: `NONE`: no `USE`: yes, and you want to use it for extraction (example: `SELECT "name" FROM COSObject`) `IGNORE`: yes, but you don't want to use it for extraction (You can still use the column index for extraction, for example, `SELECT s._1 FROM COSObject s`).	Enum	No
Comments	CSV	Sets a comment column. This character will be added to the first character of the column. If a column is specified as the comment column, COS Select will not analyze it. Default value: `#`	String	No

Content of `JSON` (a subnode of `InputSerialization`)

Node Name	Parent Node	Description	Type	Required
Type	JSON	JSON type. Valid values: `DOCUMENT`: The JSON file contains only an independent JSON object that is divided into multiple rows	Enum	Yes

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		`LINES` : Each row in the JSON file contains an independent JSON object.		

Content of `OutputSerialization`

Node Name	Parent Node	Description	Type	Required
CSV /JSON	OutputSerialization	Format of the extraction result. Valid values: `CSV` , `JSON`	Container	Yes (either CSV or JSON)

Content of `CSV` (a subnode of `OutputSerialization`)

Node Name	Parent Node	Description	Type	Required
QuoteFields	CSV	Whether to use `"` as the escape for the extraction result. Valid values: `ALWAYS` : yes `ASNEEDED` (default): as needed	String	Yes
RecordDelimiter	CSV	A delimiter that separates data records of the extraction result into multiple rows. You can set this parameter to any octal character such as a comma (,), semicolon (:), or tab. The delimiter can be up to 2 bytes, which means that delimiters such as `\\r\\n` are supported. Default value: `\\n`	String	No
FieldDelimiter	CSV	A delimiter that separates data records of the extraction result into multiple columns for each row. You can set this parameter to any octal character. This parameter can be up to 1 byte. Default value: `,`	String	No
QuoteCharacter	CSV	If a string in the extraction result contains delimiters, you can use this parameter as the escape so that the string will not be interpreted as several parts in subsequent analysis. The default value is `"` . For example, if the extraction result contains the string `a, b` , the double quotation marks can prevent the string from being interpreted as two separate	String	No

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		characters `a` and `b`. Instead, COS Select will save the string as `"a, b"`.		
QuoteEscapeCharacter	CSV	If a string in the extraction result contains `"`, use another `"` as the escape so that the string can be interpreted. For example, the string `" a , b"` will be saved as `""" a , b """`. Default value: `"`	String	No

Content of `JSON` (a subnode of `OutputSerialization`)

Node Name	Parent Node	Description	Type	Required
RecordDelimiter	JSON	A delimiter that separates data records of the extraction result into multiple rows. You can set this parameter to any octal character such as a comma (,), semicolon (:), or tab. The delimiter can be up to 2 bytes, which means that delimiters such as `\\r\\n` are supported. Default value: `\\n`	String	No

Content of `RequestProgress`

Node Name	Parent Node	Description	Type	Required
Enabled	RequestProgress	Whether COS Select should return the query progress periodically. Default value: `FALSE`	Boolean	No

Response

If the extraction is successful, “200 OK” will be returned.

Response headers

This API only returns Common Response Headers.

Response body

As the size of the response body is unpredictable, COS presents the response body in serialized form, i.e., dividing the response body into multiple parts. The following shows an overview of the returned response body:

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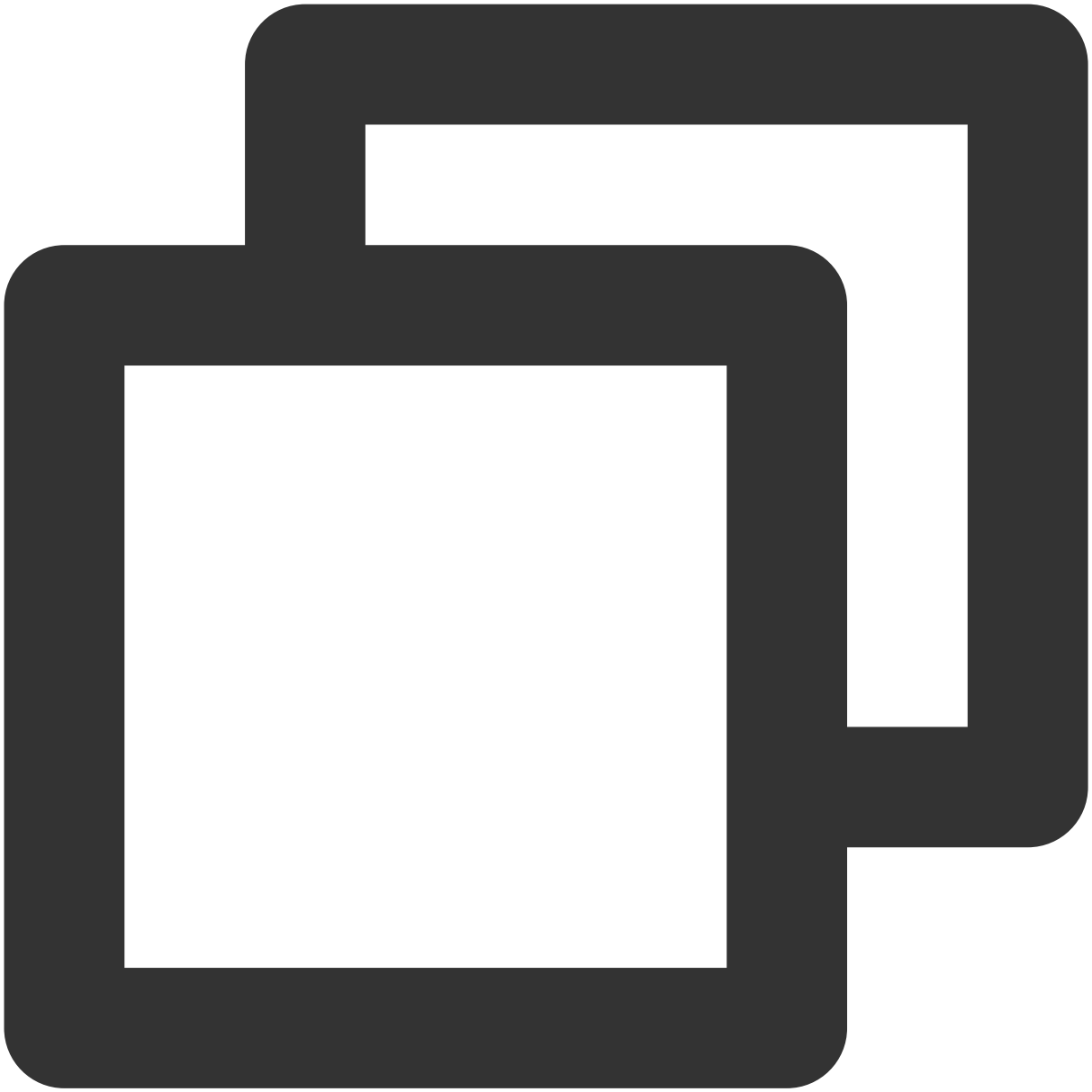

```
<Message 1>
<Message 2>
<Message 3>
......
<Message n>
```

Pre-response (prelude) and response result (data)

COS cuts the extraction result into multiple parts, each of which is a message. Each message consists of the pre-response (prelude) and response result (data).

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The prelude consists of two parts:

Total length of the message

Total length of all headers

The data consists of two parts:

Response header

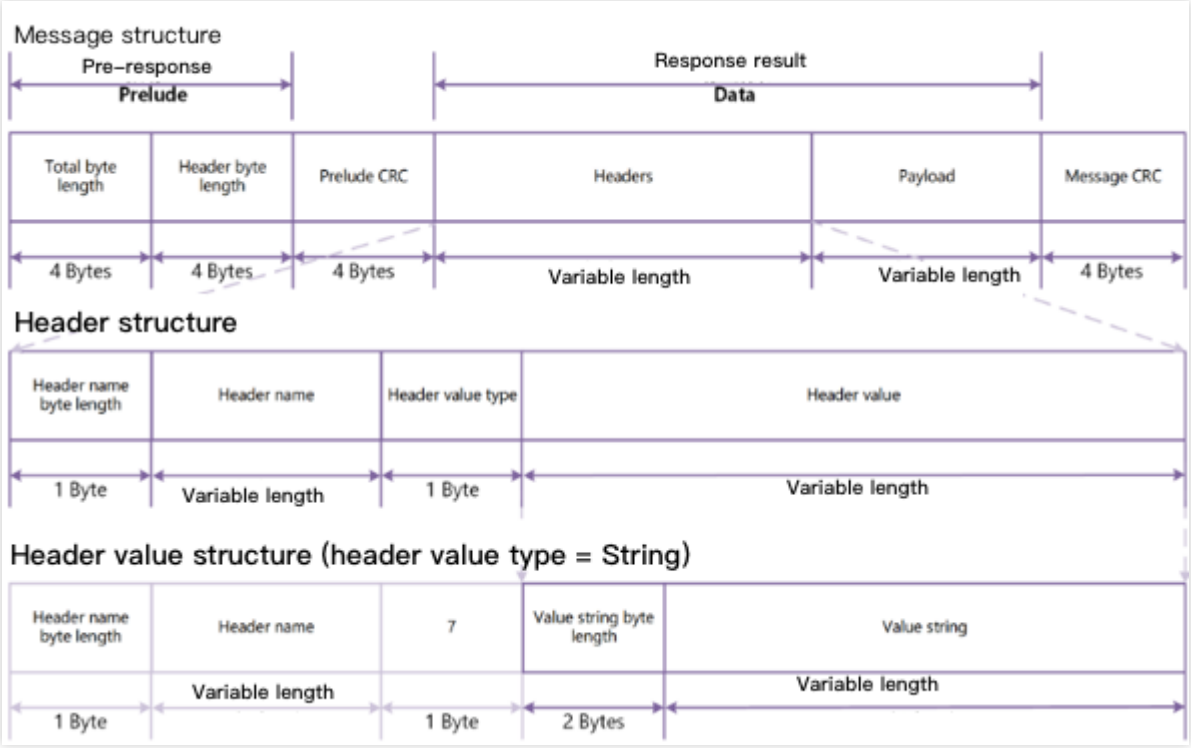
Response body (payload)

Both the prelude and data end with a 4-byte CRC code encoded in Big Endian. COS Select uses CRC32 to calculate the CRC code. For more information on CRC32, see the RFC documentation. In addition to data, COS Select additionally spends a total of 16 bytes in transferring the prelude and code.

Note:

The integer values in all the messages are transferred in network byte order (i.e., encoded in Big Endian).

The figure below shows what a message and a header consist of. One message may contain multiple headers.



As shown above, each message consists of a prelude, a prelude CRC code (composed of two pieces of information that record the number of bytes), header(s), a payload, and a message CRC code. As can be seen from the above figure, the length of the entire response body is calculated as follows:

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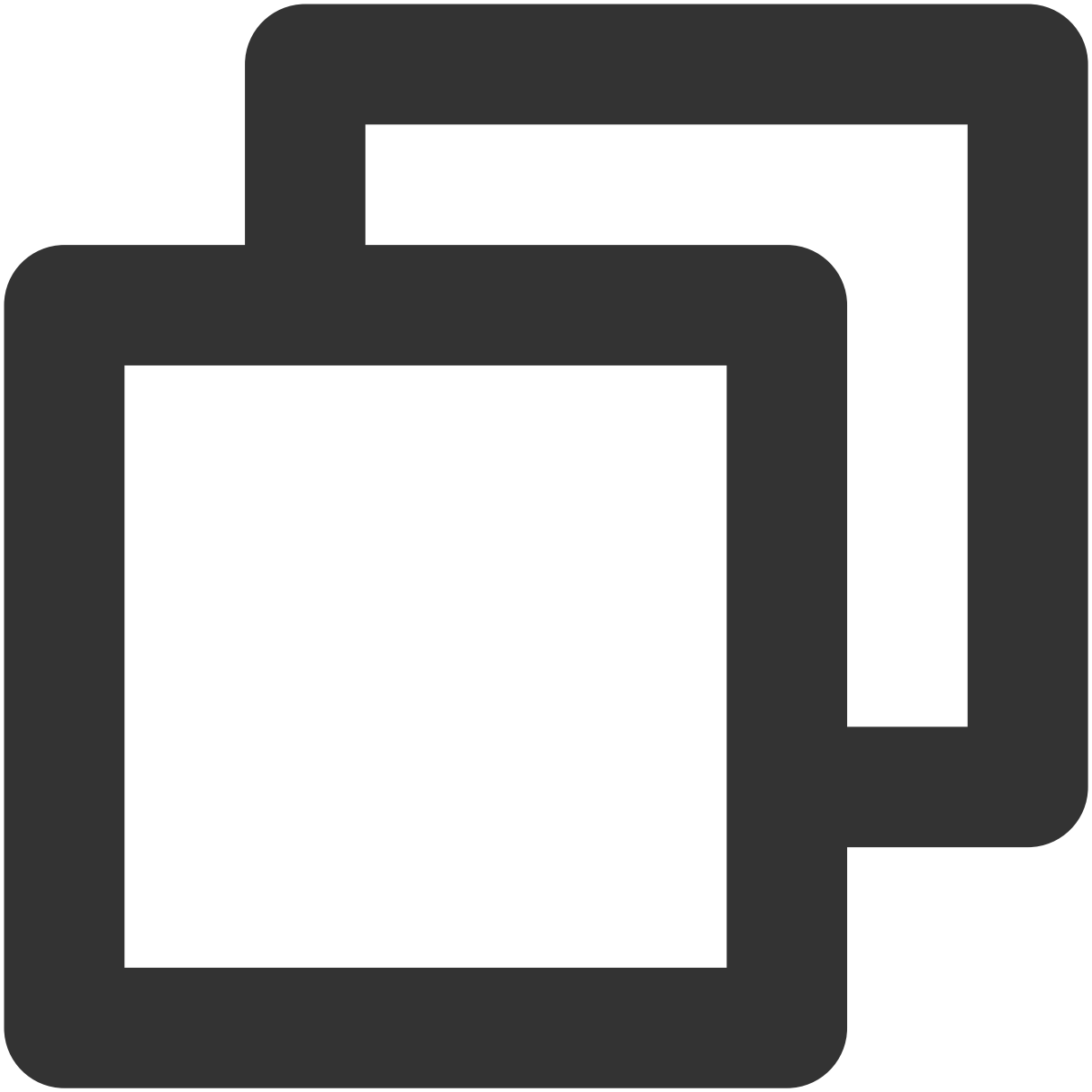

```
Total length of a response body = Length of the prelude + length of the prelude CRC
```

As the total length of the prelude, the prelude CRC code and the message CRC code is always 16 bytes, the total length of the response body can also be quickly calculated as follows:

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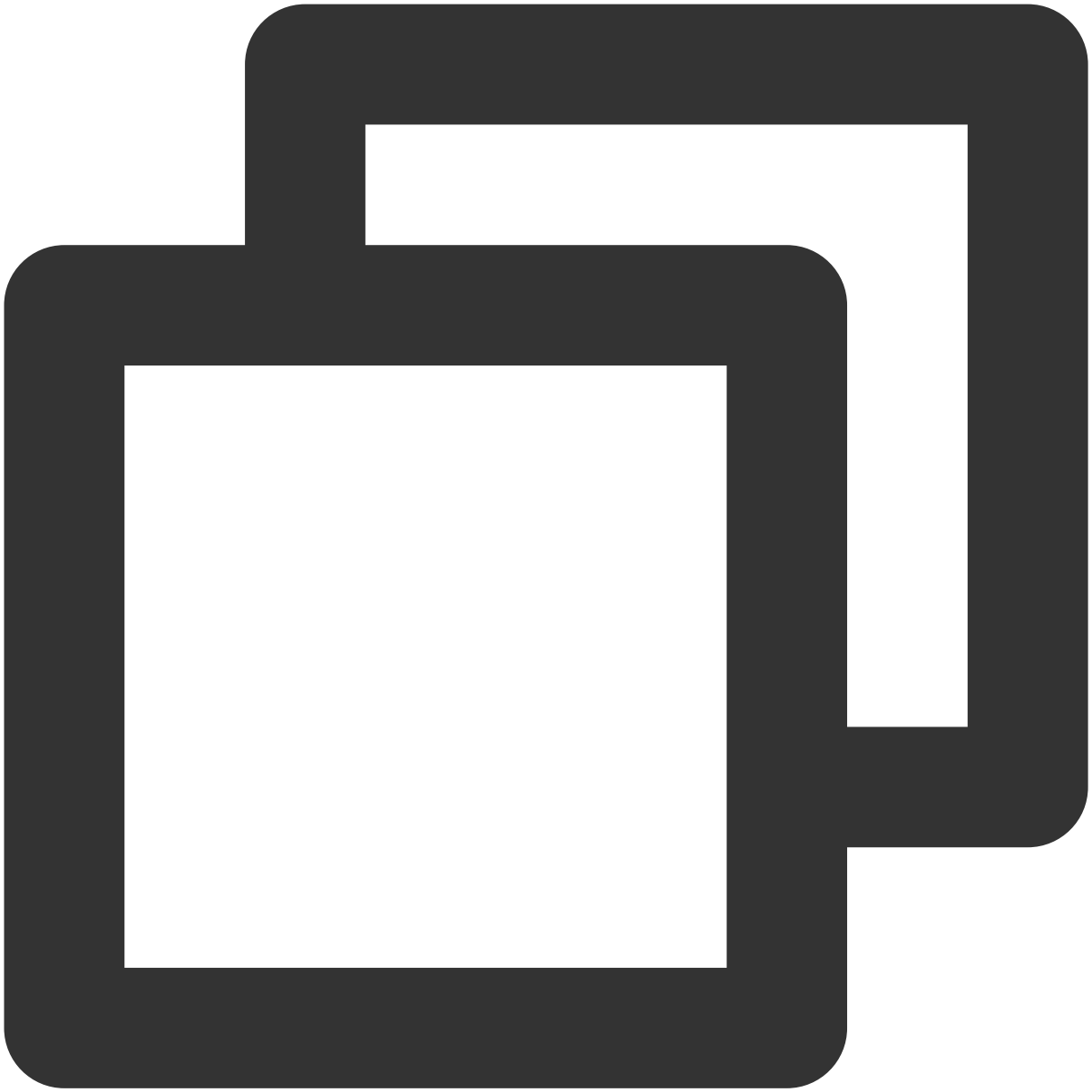

```
Total length of a response body = Length of the payload + length of the header(s) +
```

The following describes the components of the response body in detail:

Component	Description
prelude	Records the total length of each message and the total length of all headers separately. Each record is of 4 bytes, and the total length is 8 bytes: `total byte-length` : the total length of the message, which is encoded in Big Endian and of 4 bytes in total with the capacity of the record itself included.

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	`headers byte-length` : the total length of all headers, which is encoded in Big Endian and of 4 bytes in total with the capacity occupied by the record excluded.
prelude CRC	A prelude CRC is encoded in Big Endian and contains a total of 4 bytes. It helps the program quickly determine whether the prelude information is correct so as to reduce blocking during buffering.
header	Metadata of the extraction result recorded by the message, such as data type and body format. The length of this part in bytes varies by data type. A header is stored as a key-value (KV) pair and encoded in UTF-8. The metadata recorded in a header can be displayed in any order, but each metadata entry is recorded only once. Depending on the data type, the following headers may appear in the result returned by COS Select: `MessageType Header` : This header represents the response type, where the key is ":message-type" and the value can be "error" or "event". "error" indicates that this record is an error message, and "event" indicates that this record is a specific event. `EventType Header` : This header records the event type, where the key is ":event-type" and the value can be "Records", "Cont", "Progress", "Stats", or "End". "Records" indicates that the event is the returned extraction record, "Cont" the TCP connection hold, "Progress" the periodically returned extraction result, "Stats" the statistics of the query, and "End" the end of the query. `ErrorCode Header` : This header records the error code, where the key is ":error-code" and the value can be an error code listed in Special Error Codes. `ErrorMessage Header` : This header records the error message, where the key is ":error-message" and the value can be an error message returned by the server, which can be used to locate the error.
Payload	Records the extraction result or official information related to the request.
Message CRC	CRC code encoded in Big Endian containing a total of 4 bytes.

A message may record multiple headers, and each header consists of the following parts:

Component	Description
Header Name Byte-Length	Records the length of the header name in bytes
Header Name	Header type. Value range: ":message-type", ":event-type", ":error-code", ":error-message" ":message-type" indicates that the header records the response type ":event-type" indicates that the header records the event type ":error-code" indicates that the header records the error code " :error-message" indicates that the header records the error message.
Header Value Type	Type of the header value, which is always 7 for COS Select, indicating that the type is String

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Value String Byte-Length	Length of the header value in bytes, which is always 2 bytes
Header Value String	Body of the header, i.e., the metadata of the payload, where the length of the header value in bytes depends on the response type

COS Select supports the following response types:

Response Type	Description
Records message	An extraction record message, which can contain a single record, a partial record, or multiple records, depending on the number of extraction results. A response body may contain multiple records messages
Continuation message	A connection continuation message that is sent by COS Select periodically to maintain the TCP connection and appears randomly in the response body. It is recommended to make your client able to automatically identify this type of messages and filter them out so as to avoid smudging the extraction results
Progress message	A progress message returned by COS Select periodically to indicate the current query progress
Stats message	A statistics message about the query returned by COS Select after the query ends
End message	An end message indicating that the query has ended and there is no subsequent response data. The query can be considered to have ended only when a message of this type is received
RequestLevelError message	Error message including the error causes. This parameter is returned when a COS Select error occurs during the query. If COS Select returns this message, it will not return an end message.

These response types are as detailed below.

Records message

Header format

A records message contains three types of headers: ":message-type", ":event-type", and ":content-type", as shown below:

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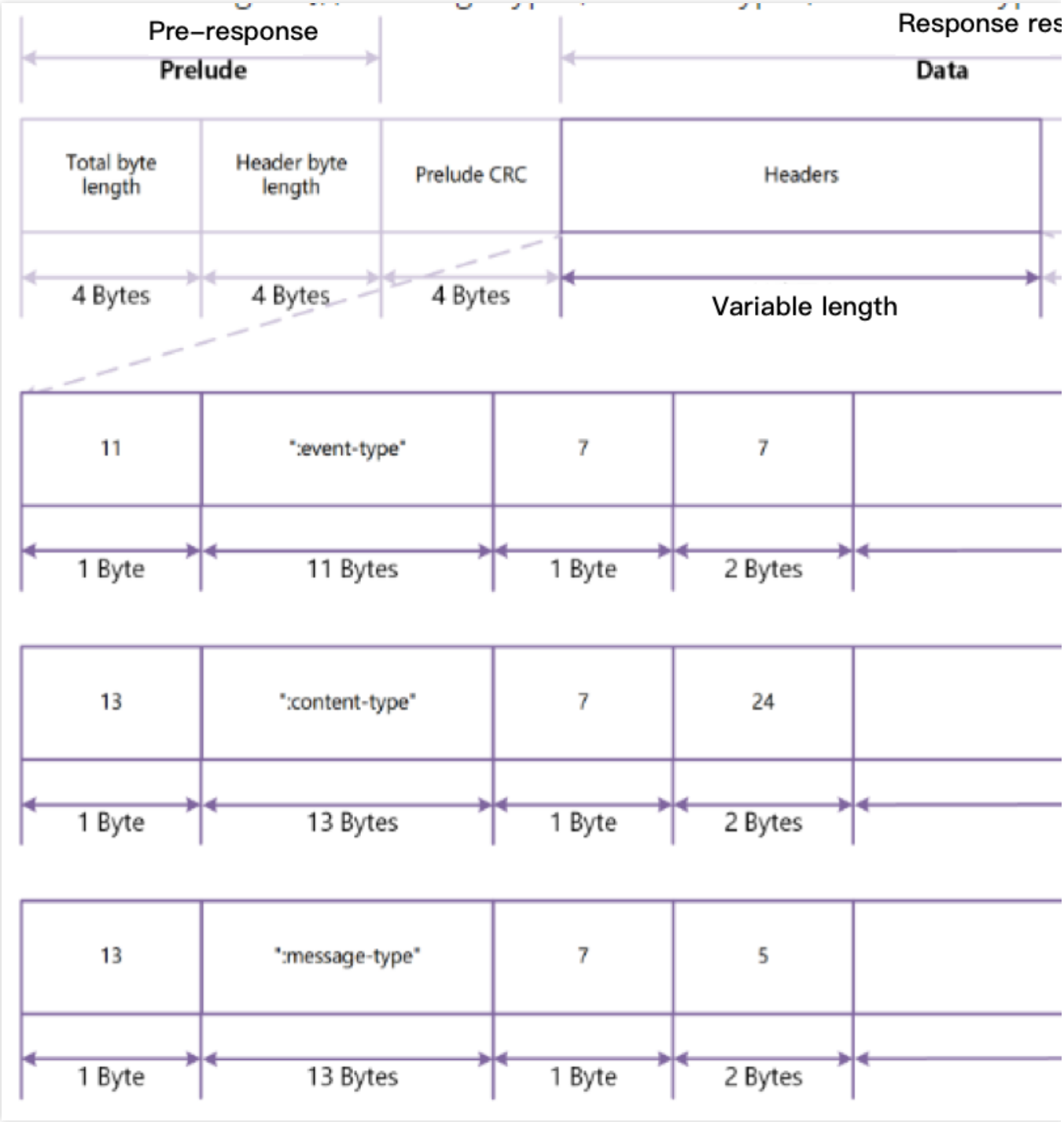

Body format

The body of a records message may contain a single record, a partial record, or multiple records, depending on the number of extraction results.

Continuation Message

Header format

A continuation message contains two types of headers: ":message-type" and ":event-type", as shown below:

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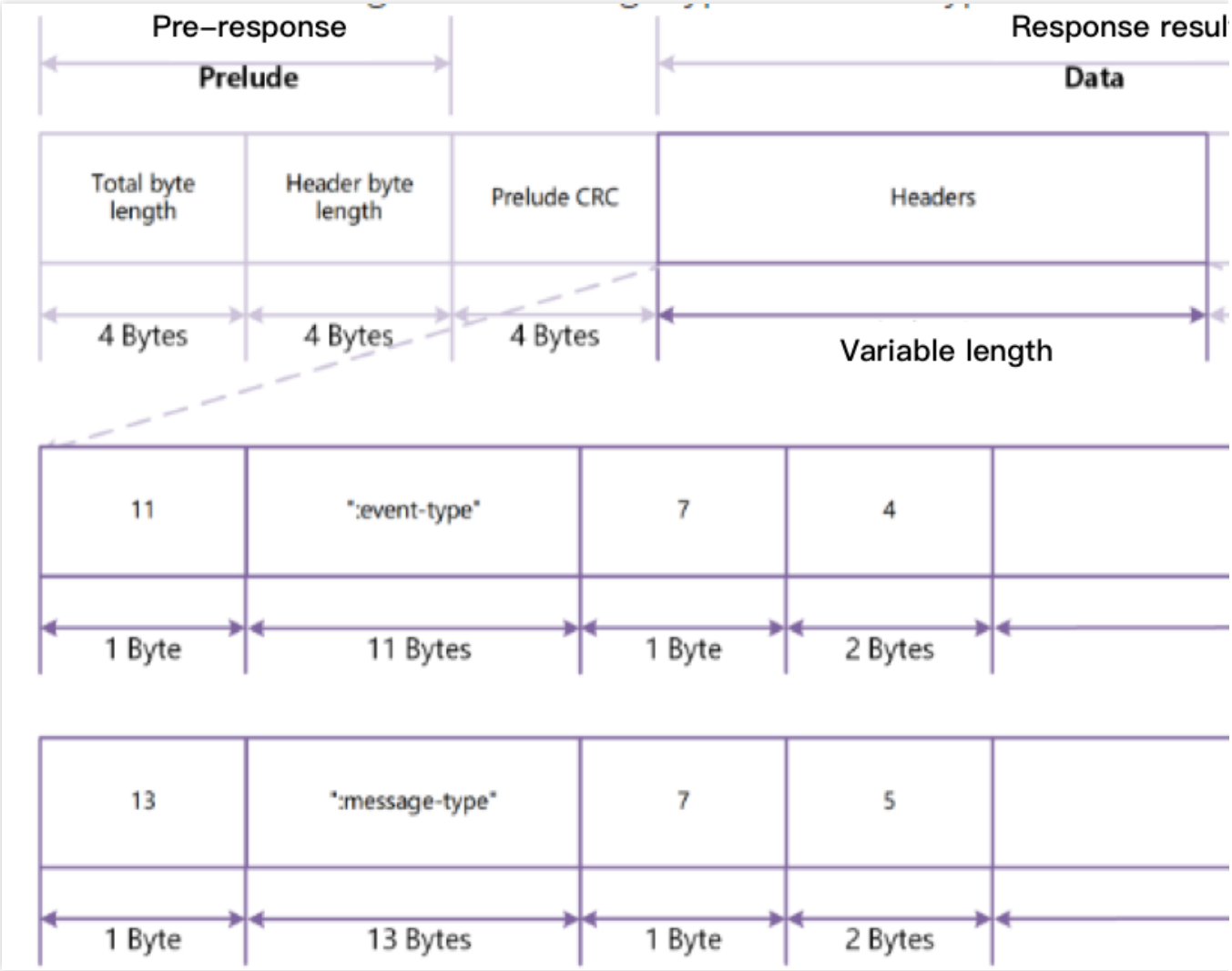

Body format

A continuation message contains no body content.

Progress message

Header format

A progress message contains three types of headers: ":message-type", ":event-type", and ":content-type", as shown below:

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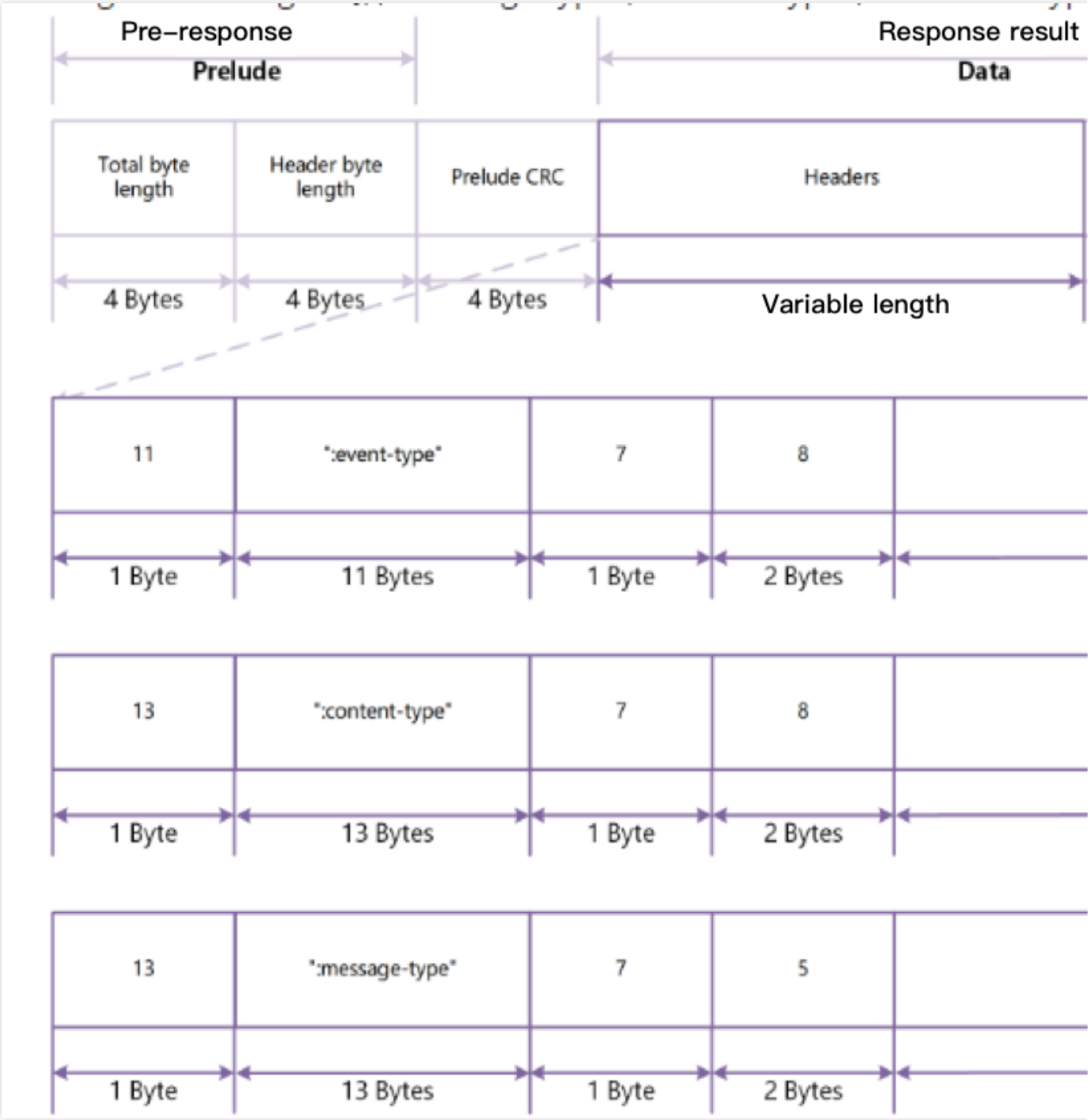

Body format

The body of a progress message is XML text which contains the current query progress, mainly including:

BytesScanned: If the file is compressed, this value represents the size of the file in bytes before it is decompressed; otherwise, this value represents the size of the file in bytes.

BytesProcessed: If the file is compressed, this value represents the size of the file in bytes after it is decompressed; otherwise, this value represents the size of the file in bytes.

BytesReturned: Size of the extraction result currently returned by COS Select in bytes.

Below is a sample:

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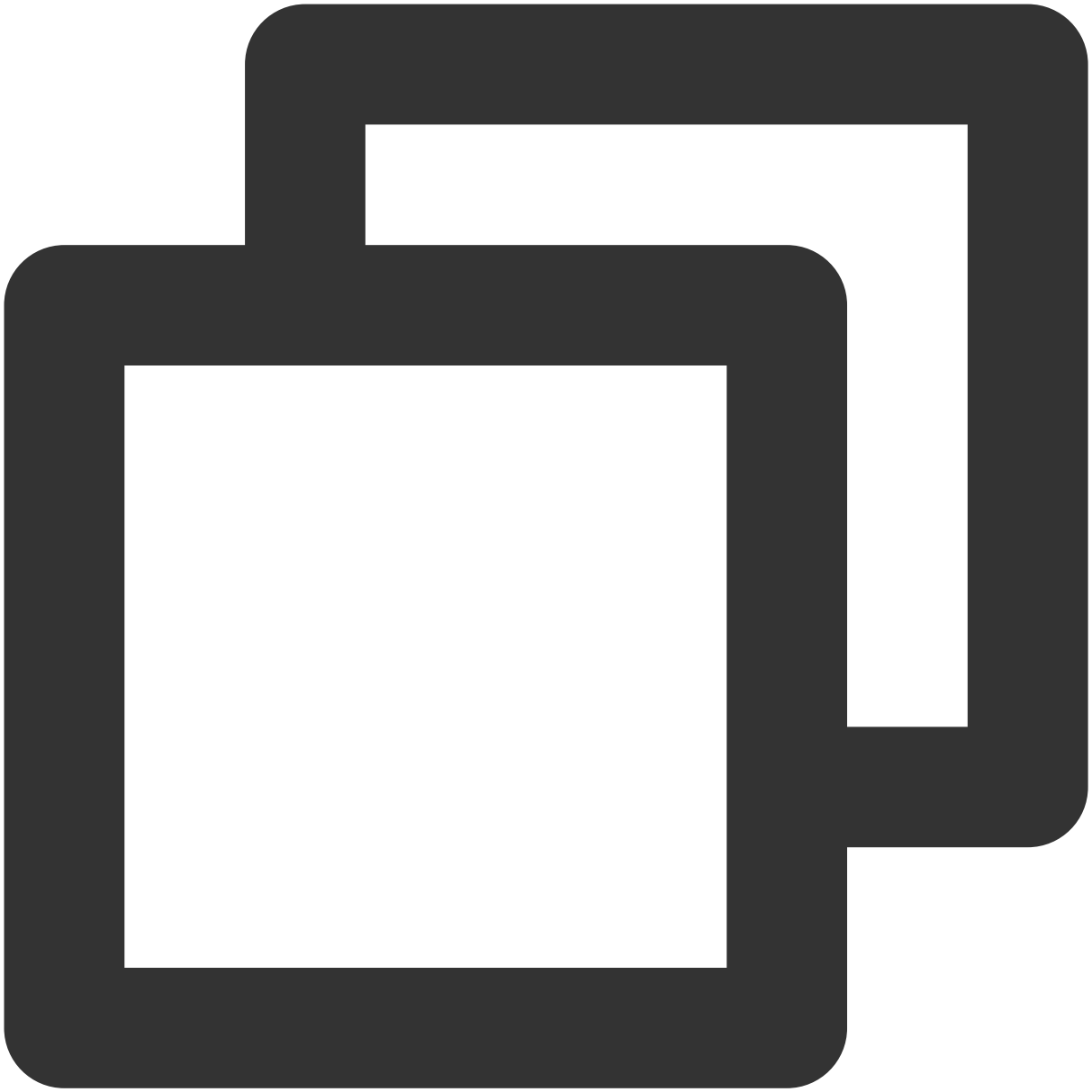

```
<?xml version="1.0" encoding="UTF-8"?>
<Progress>
     <BytesScanned>512</BytesScanned>
     <BytesProcessed>1024</BytesProcessed>
     <BytesReturned>1024</BytesReturned>
</Progress>
```

Stats Message

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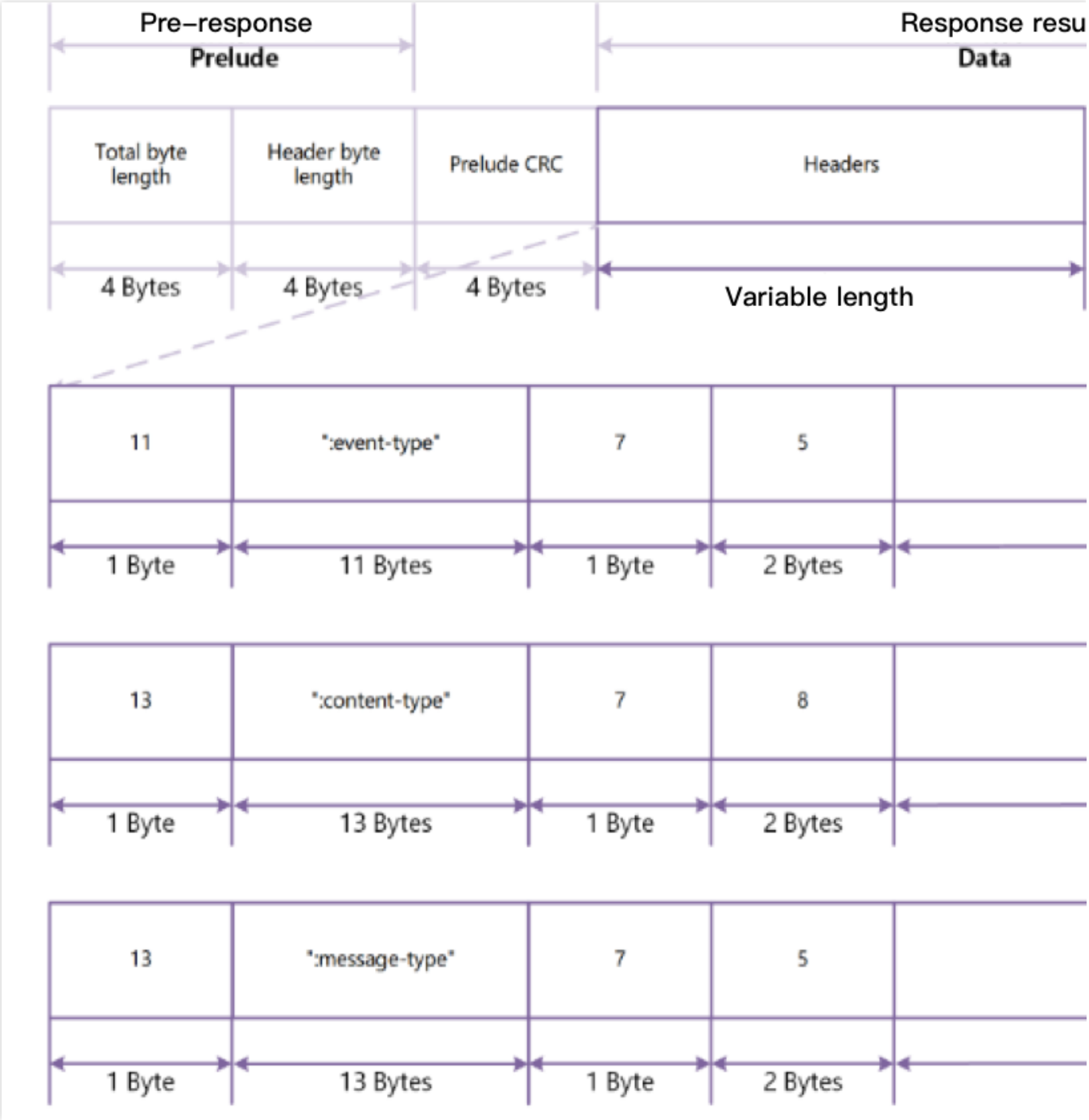
Header format

A stats message contains three types of headers: ":message-type", ":event-type", and ":content-type", as shown below:



Body format

The body of a stats message is XML text which contains the statistics of the current query, mainly including:

BytesScanned: If the file is compressed, this value represents the size of the file in bytes before it is decompressed; otherwise, this value represents the size of the file in bytes.

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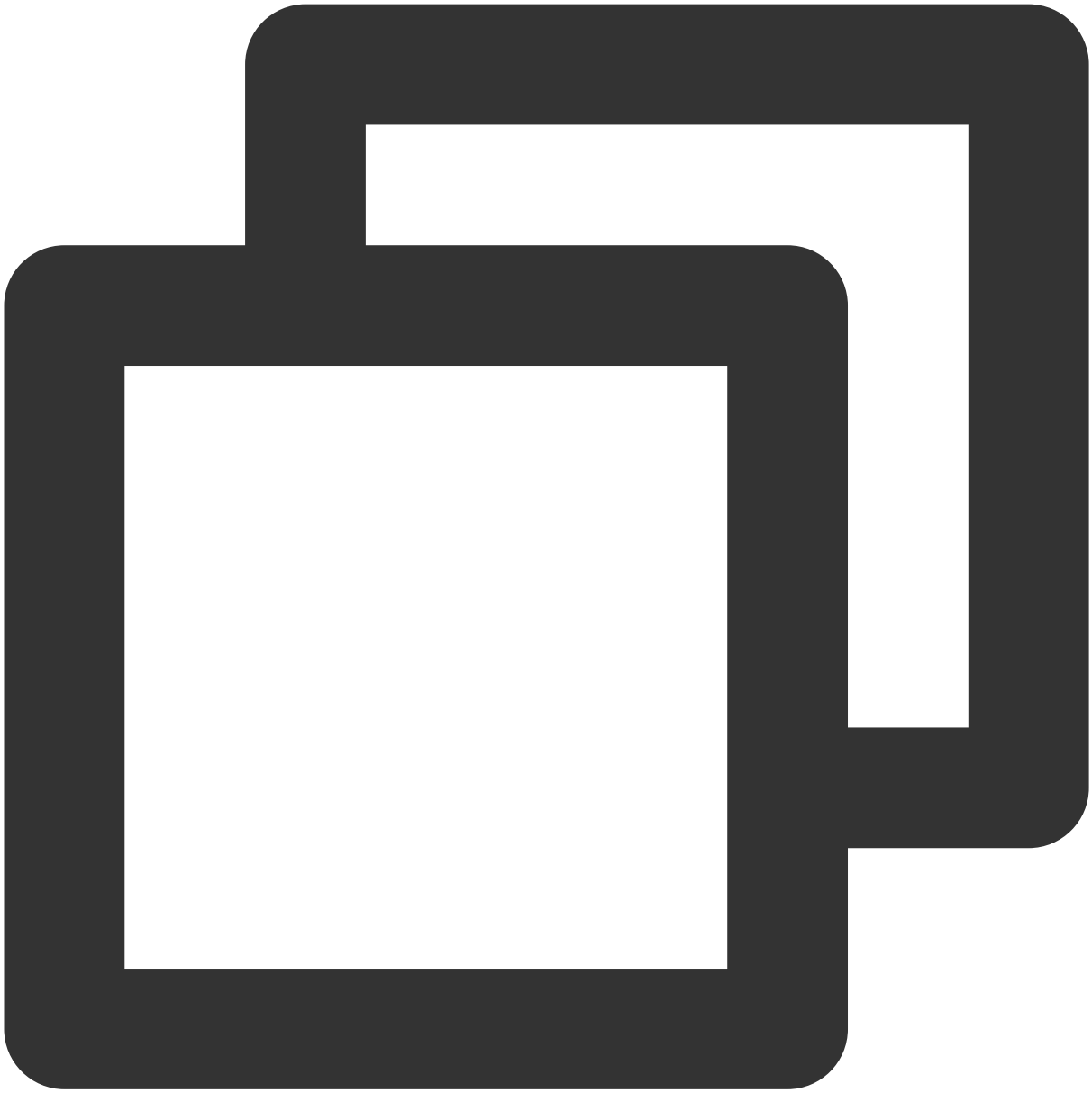
BytesProcessed: If the file is compressed, this value represents the size of the file in bytes after it is decompressed; otherwise, this value represents the size of the file in bytes.
BytesReturned: Size of the extraction result returned by COS Select in the query in bytes.
Example:



```
<?xml version="1.0" encoding="UTF-8"?>
<Stats>
     <BytesScanned>512</BytesScanned>
     <BytesProcessed>1024</BytesProcessed>
     <BytesReturned>1024</BytesReturned>
</Stats>
```

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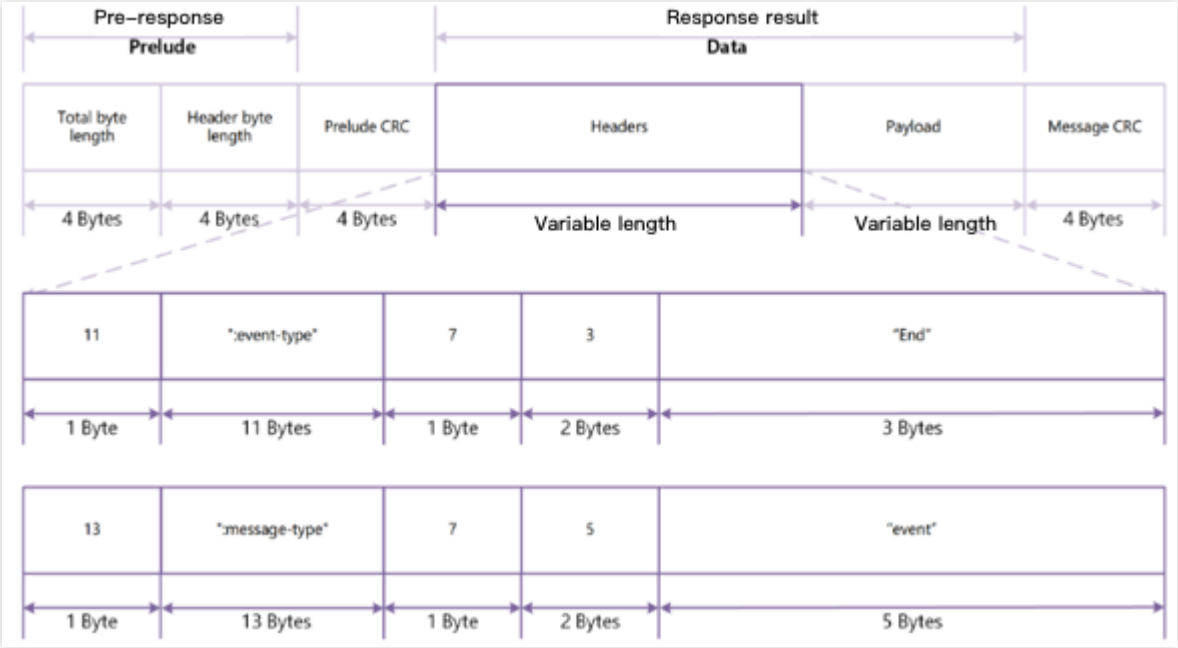
End Message

Header format

An end message contains two types of headers: ":message-type" and ":event-type", as shown below:



Body format

An end message contains no body content.

Request Level Error Message

Header format

A request level error message contains three types of headers: ":error-code", ":error-message", and ":message-type", as shown below:

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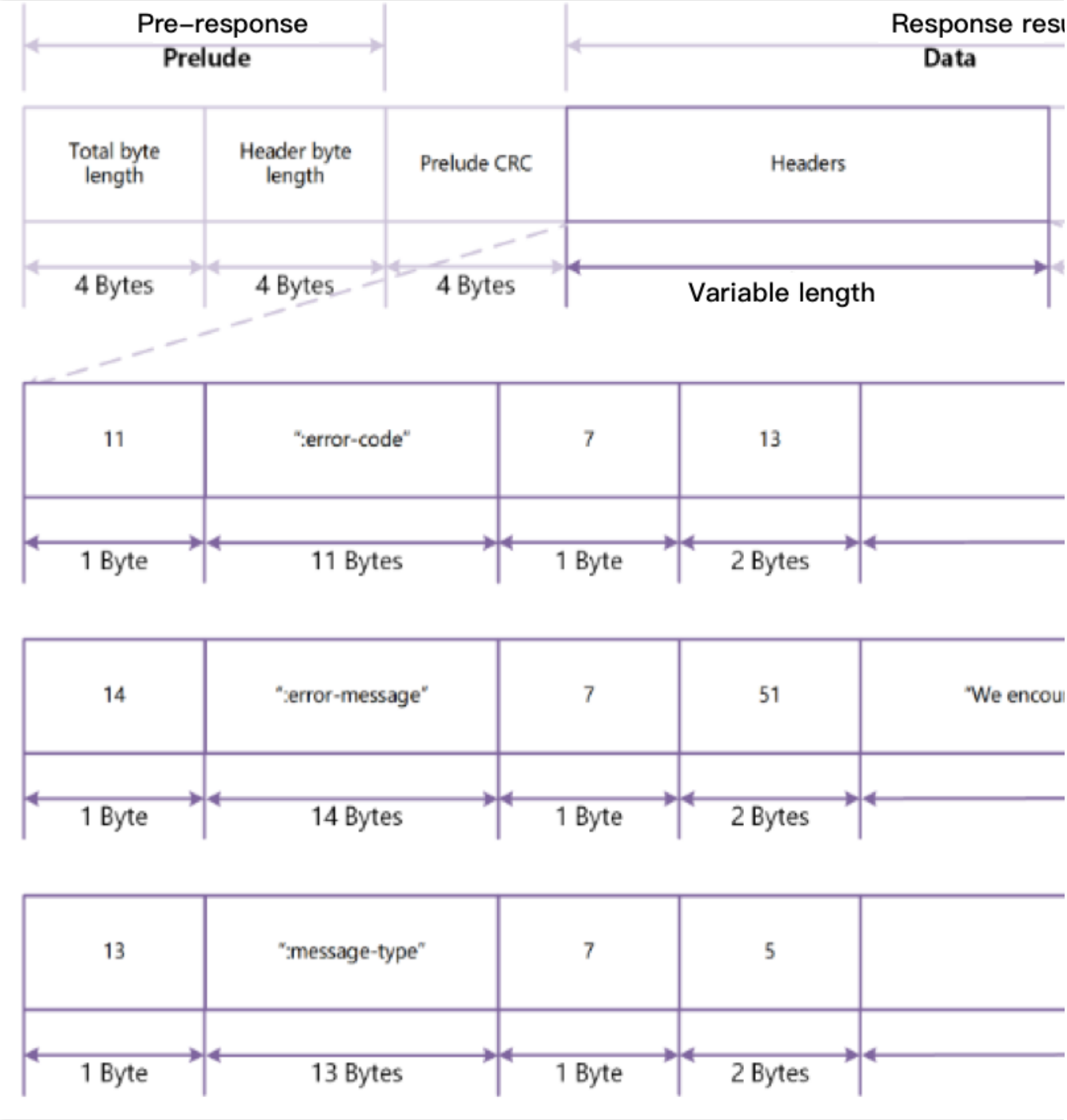

For more information on the error code in a request level error message, see Special Error Codes.

Body format

A request level error message contains no body content.

Special error codes

For common errors related to this request, see Error Codes. The following describes special error codes:

Error Code	Error Message	HTTP Status Code

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InvalidXML	The XML is invalid	400 Bad Request
MissingRequiredParameter	The SelectRequest entity is missing a required parameter	400 Bad Request
MissingExpectedExpression	The SQL expression is missing	400 Bad Request
MissingInputSerialization	The input serialization is missing	400 Bad Request
InvalidCompressionFormat	The file is not in a supported compression format. Only GZIP and BZIP2 are supported	400 Bad Request
MissingInputFormat	The input format is missing	400 Bad Request
InvalidFileHeaderInfo	The input FileHeaderInfo is invalid. Only NONE, USE, and IGNORE are supported	400 Bad Request
InvalidRequestParameter	The input RecordDelimiter of CSV is invalid	400 Bad Request
InvalidRequestParameter	The input FieldDelimiter of CSV is invalid	400 Bad Request
InvalidRequestParameter	The input QuoteCharacter of CSV is invalid	400 Bad Request
InvalidRequestParameter	The input AllowQuoteRecordDelimiter of CSV is invalid. Only TRUE and FALSE are supported	400 Bad Request
InvalidJsonType	The JsonType is invalid. Only DOCUMENT and LINES are supported	400 Bad Request
MissingOutputSerialization	The output serialization is missing	400 Bad Request
MissingOutputFormat	The output format is missing	400 Bad Request
InvalidQuoteFields	The QuoteFields is invalid. Only ALWAYS and ASNEEDED are supported	400 Bad Request
InvalidRequestParameter	The output RecordDelimiter of CSV is invalid	400 Bad Request
InvalidRequestParameter	The output FieldDelimiter of CSV is invalid	400 Bad Request
InvalidRequestParameter	The output QuoteCharacter of CSV is invalid	400 Bad Request
InvalidRequestParameter	The output QuoteEscapeCharacter of CSV is invalid	400 Bad Request
InvalidRequestParameter	The output RecordDelimiter of JSON is invalid	400 Bad Request
SQLParsingError	Encountered an error parsing the SQL expression	400 Bad Request
SQLParsingError	Other expressions are not allowed in the SELECT list	400 Bad Request

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	when '*' is used without dot notation.	
SQLParsingError	The SQL expression contains an empty SELECT	400 Bad Request
SQLParsingError	GROUP is not supported in the SQL expression	400 Bad Request
SQLParsingError	UNION is not supported in the SQL expression	400 Bad Request
SQLParsingError	FROM is missing in the SQL expression	400 Bad Request
SQLParsingError	ORDER is not supported in the SQL expression	400 Bad Request
SQLParsingError	The column index is invalid in the SQL expression	400 Bad Request
SQLParsingError	The table alias is invalid in WHERE	400 Bad Request
Bzip2DecompressError	Encountered an error decompressing the bzip2 file	400 Bad Request
Bzip2DecompressError	bzip2 is not applicable to the queried object	400 Bad Request
GzipDecompressError	Encountered an error decompressing the GZIP file	400 Bad Request
GzipDecompressError	GZIP is not applicable to the queried object	400 Bad Request
Busy	The service is busy. Please retry later	400 Bad Request
Overload	The service is overload. Please retry later	400 Bad Request
AmbiguousFieldName	Field name matches to multiple fields in the file	400 Bad Request
ComparisonFailed	Attempt to compare failed	400 Bad Request
CastFailed	Attempt to convert from one data type to another using CAST failed in the SQL expression.	400 Bad Request
OverMaxRecordSize	The length of a record in the input or result is greater than maxCharsPerRecord of 1 MB	400 Bad Request
LastRecordParseFail	Please check the last record in the input	400 Bad Request
CSVParsingError	Encountered an error parsing the CSV file	400 Bad Request
JSONParsingError	Encountered an error parsing the JSON file	400 Bad Request
ErrorWritingRow	Encountered an error parsing the SELECT result. Please try again	400 Bad Request
InvalidRequestParameter	The input Comment of CSV is invalid	400 Bad Request
InvalidTextEncoding	UTF-8 encoding is required. Please check the file and try	400 Bad Request

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	again.	
NoSuchKey	The specified key does not exist	404 Not Found
AccessDenied	Access Denied	403 Forbidden
MethodNotAllowed	The specified method is not allowed against this resource	405 Method Not Allowed
InternalError	We encountered an internal error. Please try again	500 Internal Server

Samples

Sample 1: extracting content from a CSV object

The following sample extracts all content from a CSV object and saves the extraction result in CSV format. The object to extract is named `exampleobject.csv` and stored in the `examplebucket-1250000000` bucket that resides in the Beijing (ap-beijing) region.

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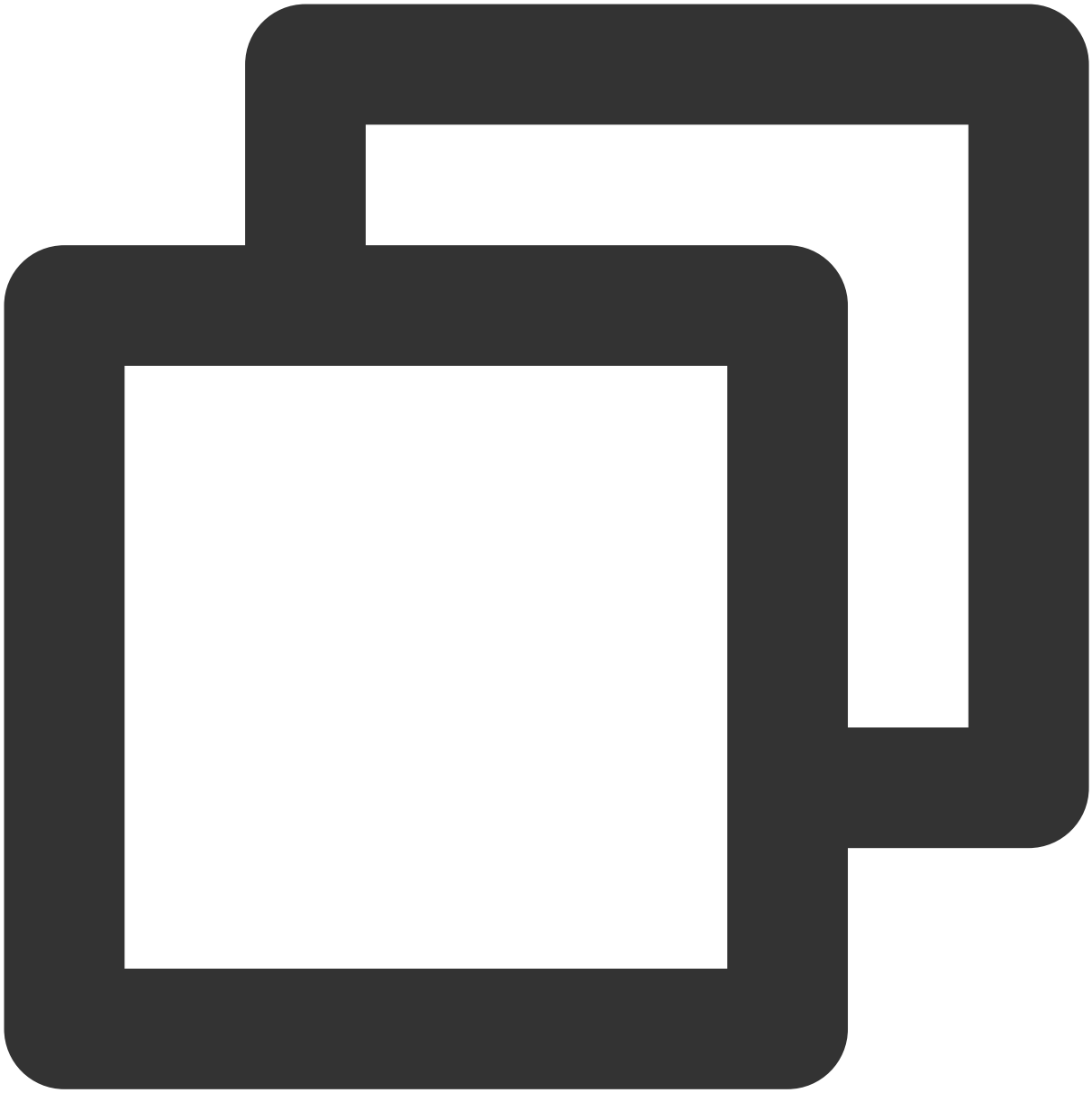

```
POST /exampleobject.csv?select&select-type=2 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 12 Jan 2019 11:49:52 GMT
Authorization: authorization string
Content-Length: content length

<?xml version="1.0" encoding="UTF-8"?>
<SelectRequest>
    <Expression>Select * from COSObject</Expression>
    <ExpressionType>SQL</ExpressionType>
    <InputSerialization>
```

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```
        <CompressionType>None</CompressionType>
        <CSV>
            <FileHeaderInfo>IGNORE</FileHeaderInfo>
            <RecordDelimiter>\\n</RecordDelimiter>
            <FieldDelimiter>,</FieldDelimiter>
            <QuoteCharacter>"</QuoteCharacter>
            <QuoteEscapeCharacter>"</QuoteEscapeCharacter>
            <Comments>#</Comments>
        </CSV>
    </InputSerialization>
    <OutputSerialization>
        <CSV>
            <QuoteFields>ASNEEDED</QuoteFields>
            <RecordDelimiter>\\n</RecordDelimiter>
            <FieldDelimiter>,</FieldDelimiter>
            <QuoteCharacter>"</QuoteCharacter>
            <QuoteEscapeCharacter>"</QuoteEscapeCharacter>
        </CSV>
    </OutputSerialization>
</SelectRequest>
```

To run different extraction commands, modify the SQL command in the `Expression` node. For more information about commands, please see SELECT Command. Some common extraction scenarios are described below.

Suppose that you use a column index to filter the content from an object. You can use `s._n` to filter data records in the `n` column (the minimum value of `n` is 1). The following command filters data records that are greater than 100 in column 3 and returns columns 1 and 2 of these matching records:

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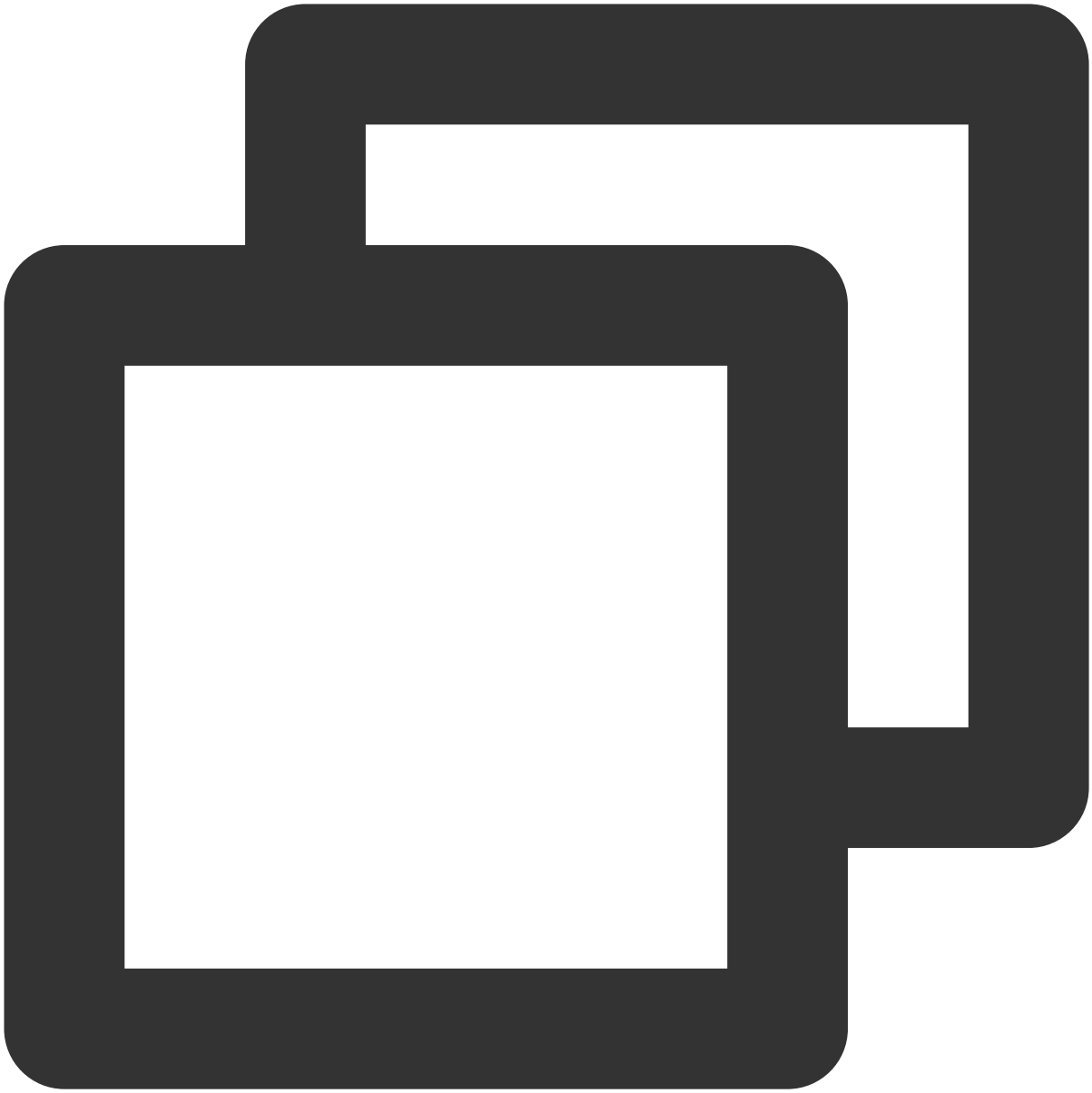

```
SELECT s._1, s._2 FROM COSObject s WHERE s._3 > 100
```

If your CSV object has a column header and you want to filter the content of the object using the name of the header (you need to set `FileHeaderInfo` to `Use`), you can use `s.name` for indexing. The following command filters records using a header named `Id` and `FirstName`:

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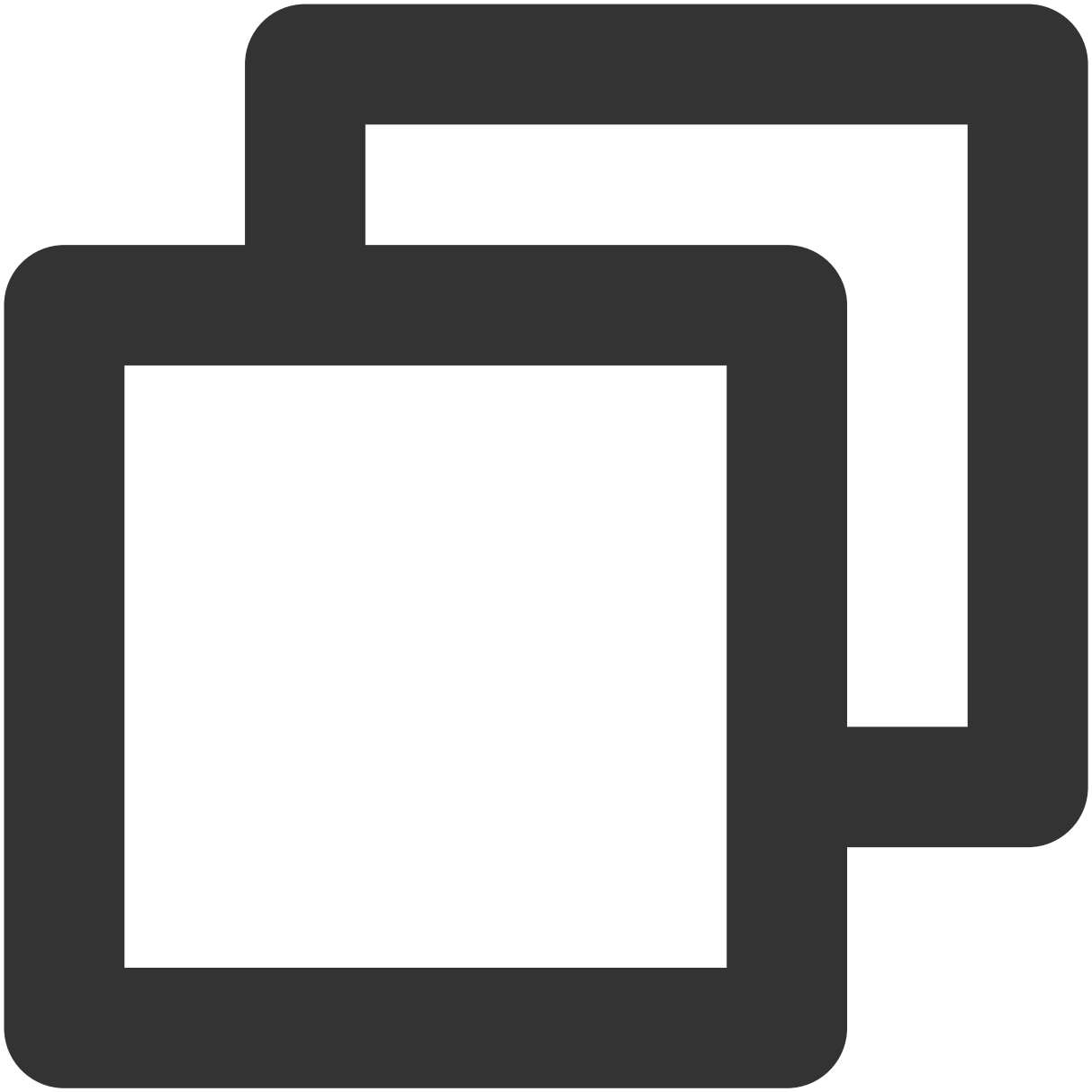

```
SELECT s.Id, s.FirstName FROM COSObject s
```

You can also specify a function in the SQL expression. The following command counts the number of records whose values are smaller than 1 in column 1:

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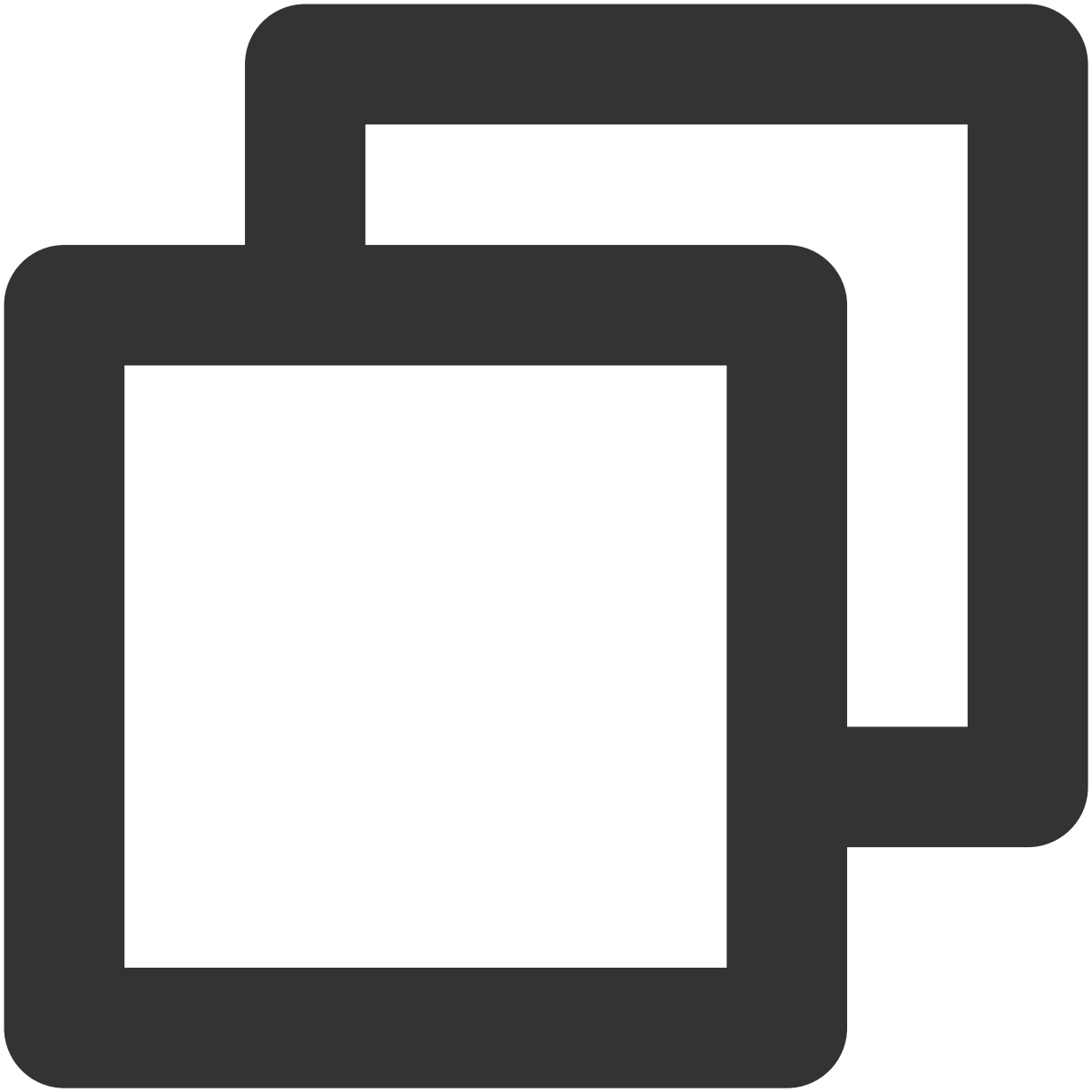

```
SELECT count(*) FROM COSObject s WHERE s._1 < 1
```

The following is a sample response:

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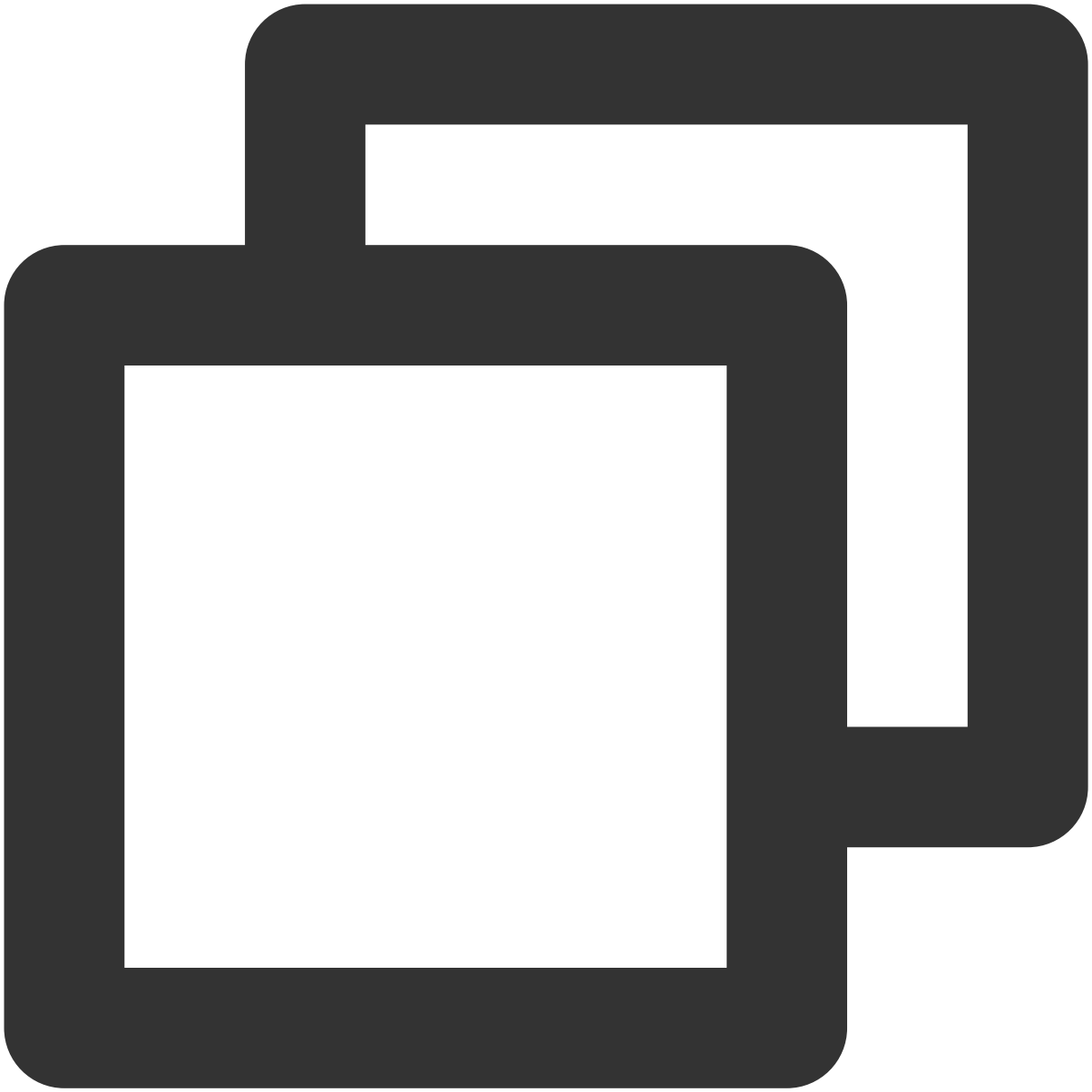

```
HTTP/1.1 200 OK
x-cos-id-2: cos_id_demo
x-cos-request-id: cos_request_id_demo
Date: Tue, 12 Jan 2019 11:50:29 GMT

A series of messages
```

Sample 2: extracting content from an object in JSON format

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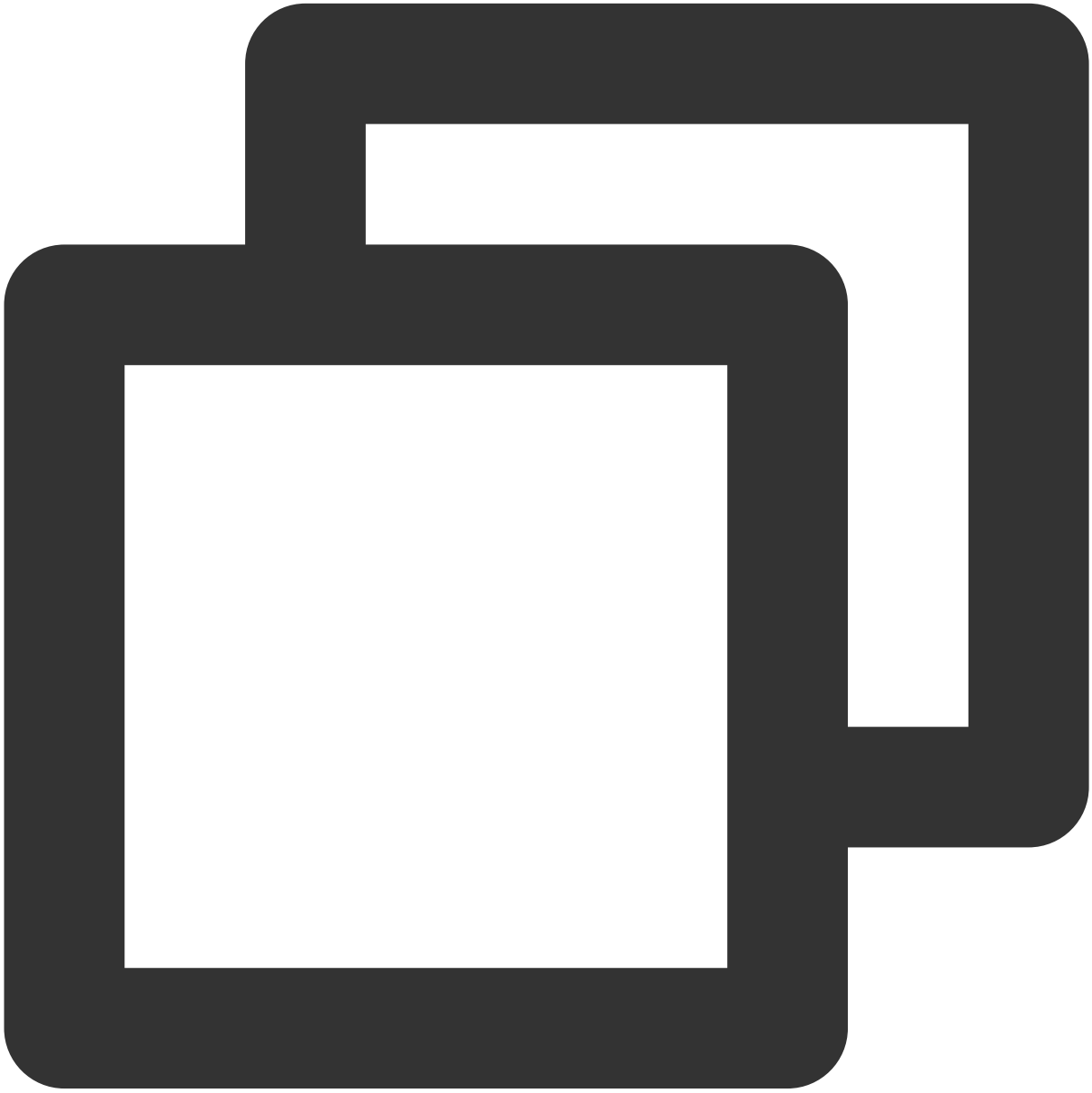
The following sample extracts all content from a JSON object and saves the extraction result in CSV format. The object to extract is named `exampleobject.json` and stored in the `examplebucket-1250000000` bucket that resides in the Beijing (ap-beijing) region.



```
POST /exampleobject.json?select&select-type=2 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 12 Jan 2019 11:52:29 GMT
Authorization: authorization string
Content-Length: content length

<?xml version="1.0" encoding="UTF-8"?>
```

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```
<SelectRequest>
    <Expression>Select * from COSObject</Expression>
    <ExpressionType>SQL</ExpressionType>
    <InputSerialization>
        <CompressionType>NONE</CompressionType>
        <JSON>
            <Type>DOCUMENT</Type>
        </JSON>
    </InputSerialization>
    <OutputSerialization>
        <CSV>
            <QuoteFields>ASNEEDED</QuoteFields>
            <RecordDelimiter>\\n</RecordDelimiter>
            <FieldDelimiter>,</FieldDelimiter>
            <QuoteCharacter>"</QuoteCharacter>
            <QuoteEscapeCharacter>"</QuoteEscapeCharacter>
        </CSV>
    </OutputSerialization>
</SelectRequest>
```

Similarly, you can also perform different extraction commands on JSON objects by modifying the SQL command in the `Expression` node. For more information about commands, please see SELECT Command. Some common extraction scenarios are described below.

You can use a JSON attribute name to extract content. The following command filters records whose `city` value is Seattle from the object and returns the `country` and `city` information of these records:

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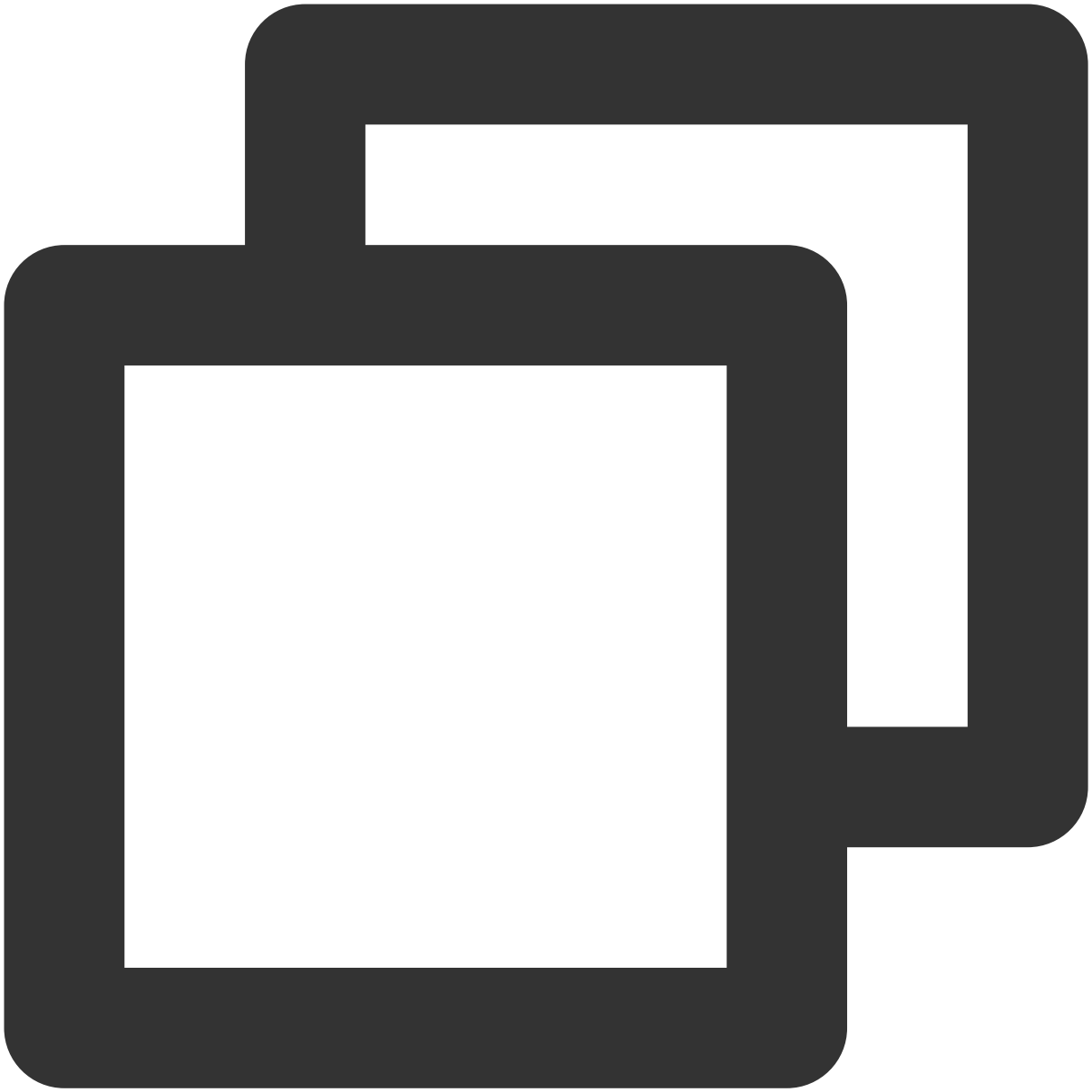

```
SELECT s.country, s.city from COSObject s where s.city = 'Seattle'
```

You can also specify a function in the SQL expression. The following command counts the total number of records in the JSON object:

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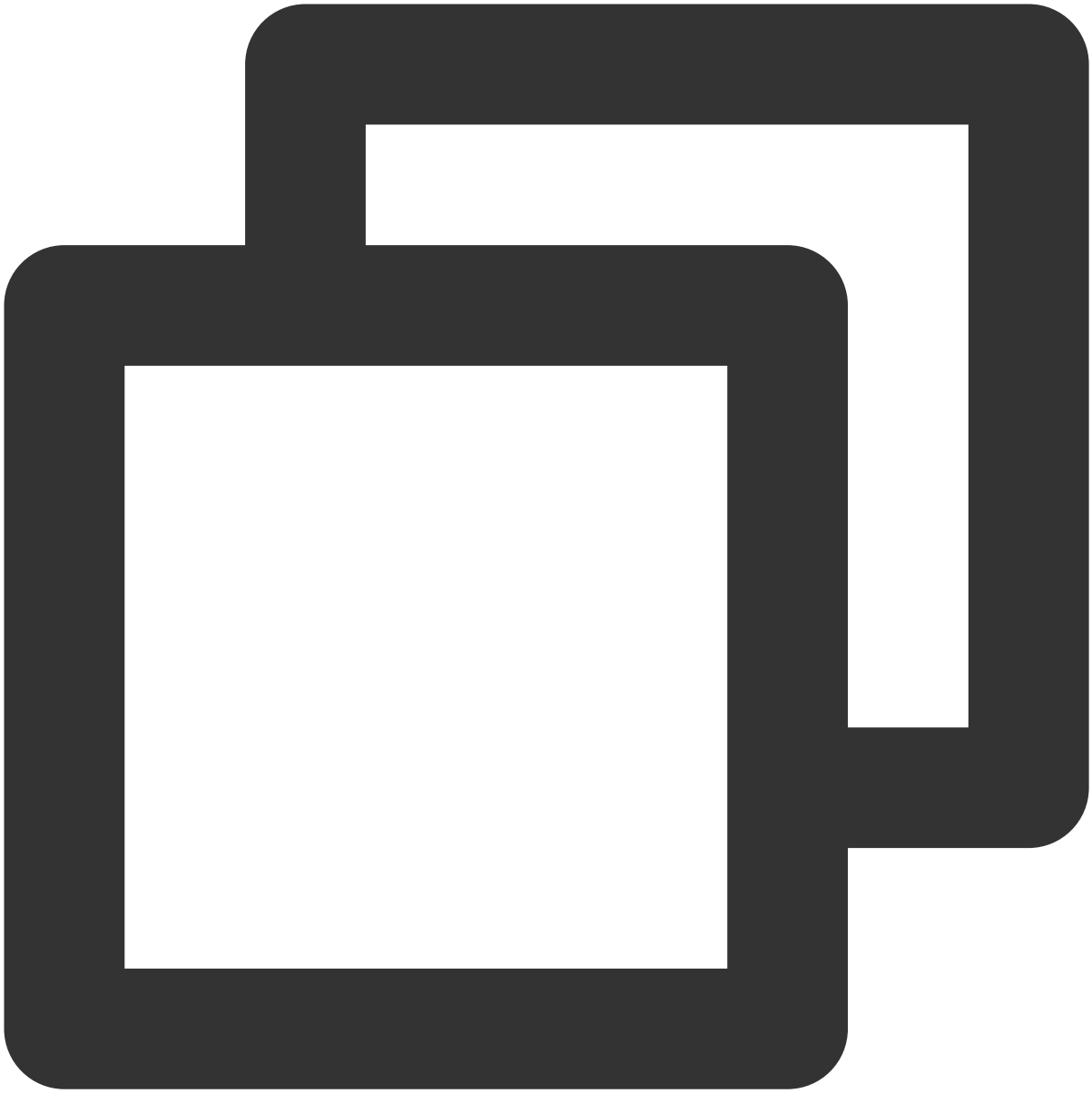

```
SELECT count(*) FROM COSObject s
```

Notes

Unlike the GET Object API, SELECT Object Content does not support:

Returning a part of an object. You cannot use parameters such as `Range` to specify a part of an object to return.

Extracting content from ARCHIVE or DEEP ARCHIVE objects. You need to restore them first.

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Access Control List (acl)
PUT Object acl

Last updated：2024-06-12 15:10:38

Overview

This API is used to write an access control list (ACL) to an object. You can set the ACL information through the `x-cos-acl` and `x-cos-grant-*` request headers or the request body in XML format.

Note:

You can set the ACL information either through request headers or through the request body.

`PUT Object acl` is an overwriting operation. The new ACL will overwrite the old one.

You can only grant permissions to Tencent Cloud CAM root accounts or anonymous users. To grant permissions to sub-accounts or user groups, please use the PUT Bucket policy API. For more information about ACL, please see ACL Overview.

To call this API, you need to have permission to write ACL to the object.

Requests

Sample requests

Sample 1

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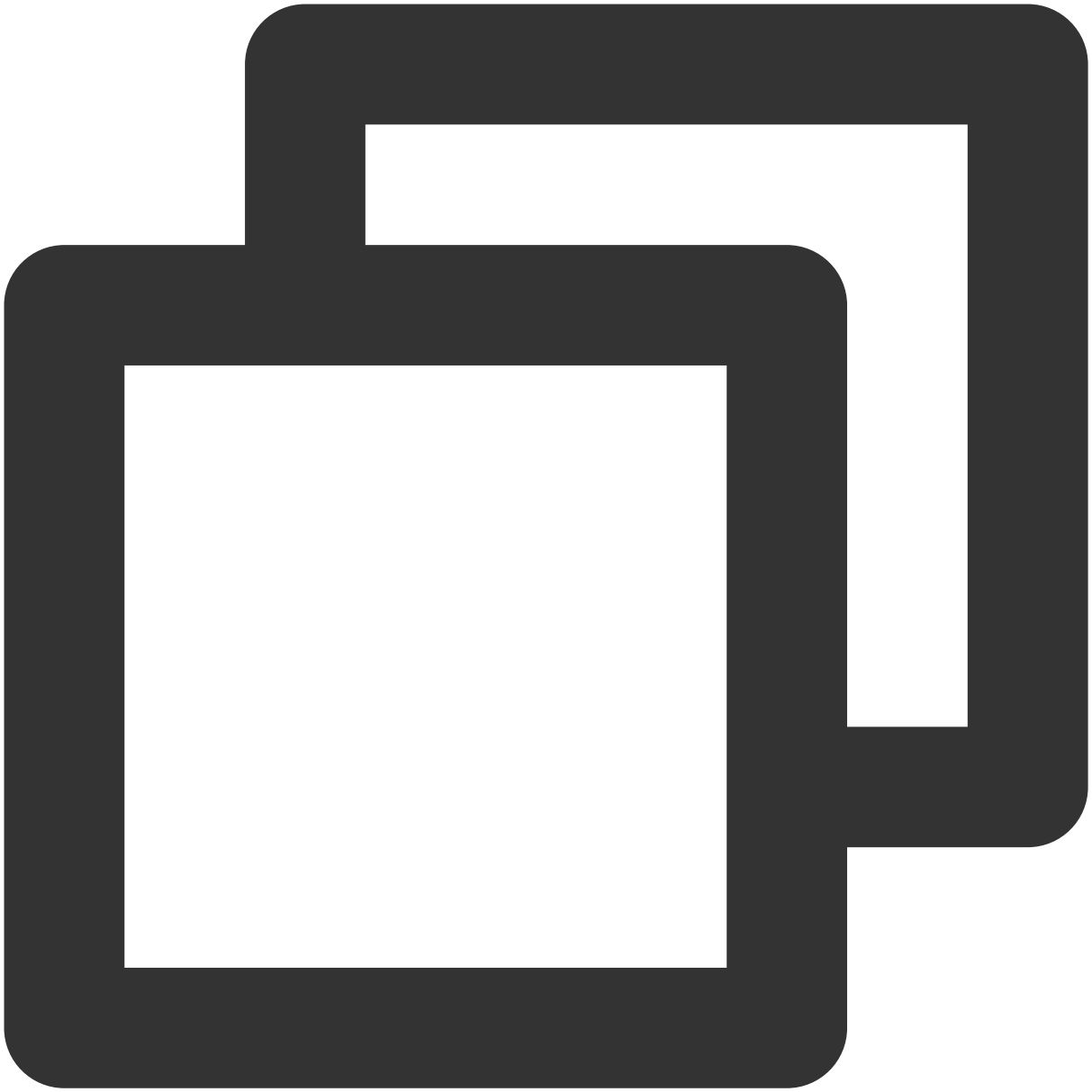

```
PUT /<ObjectKey>?acl HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Length: 0
Authorization: Auth String
```

Sample 2

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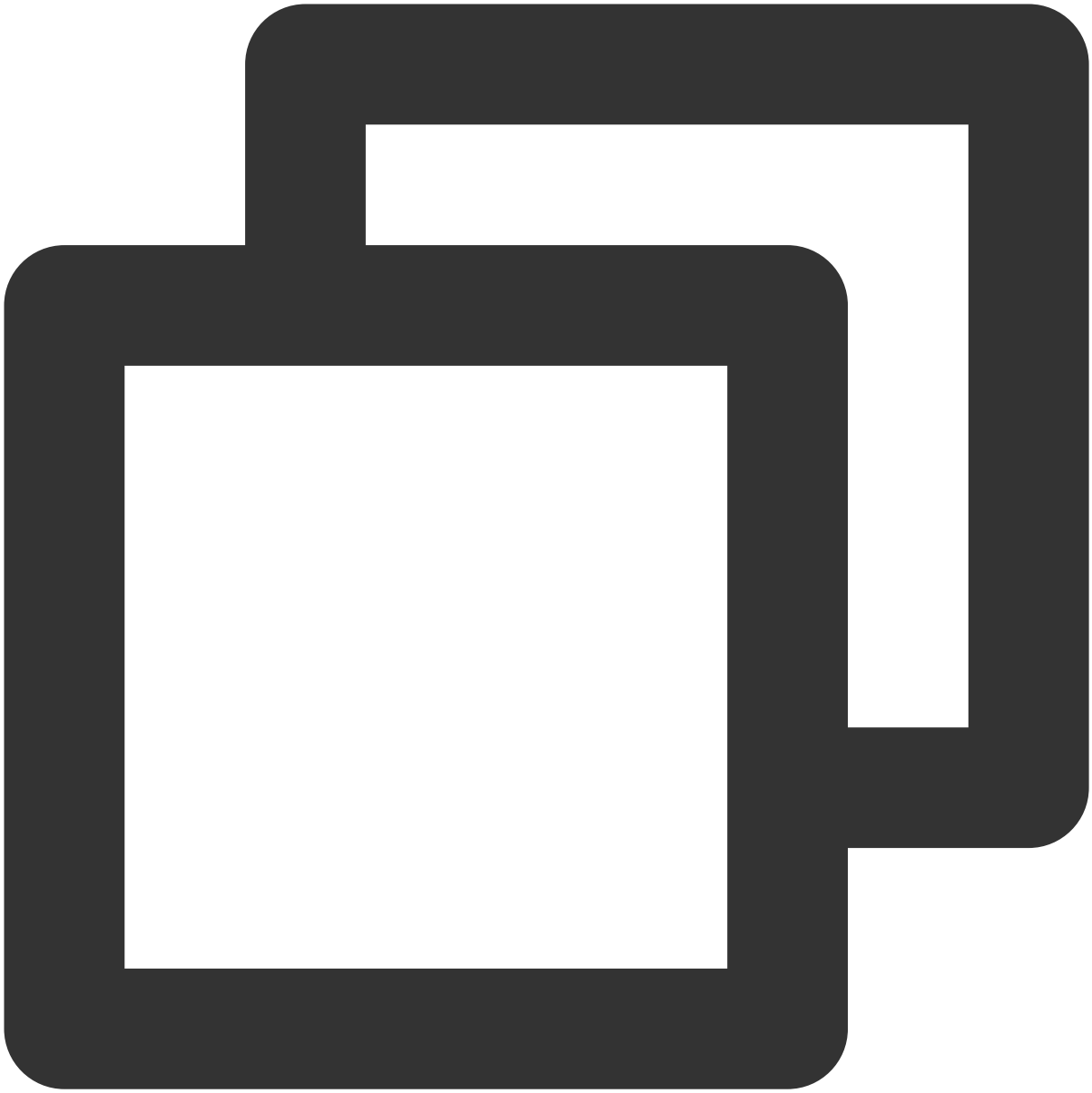

```
PUT /<ObjectKey>?acl HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String



[Request Body]
```

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Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com`, <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request parameters

This API has no request parameter.

Request headers

In addition to common request headers, this API also supports the following request headers. For more information about common request headers, please see Common Request Headers.

Header	Description	Type	Required
x-cos-acl	Defines the ACL attribute of the object. For the enumerated values, such as `default`, `private`, and `public-read`, please see the **Preset ACL** section in ACL Overview. Default value: `default` **Note**: If you do not need access control for the object, set this header to `default` or leave it empty. In this way, the object will inherit the permissions of the bucket it is stored in.	Enum	No
x-cos-grant-read	Grants a user read permission for an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use commas (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-read-acp	Grants a user read permission for the ACL of an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use commas (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-write-acp	Grants a user write permission for the ACL of an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use commas (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-full-control	Grants a user full permission to operate on an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use commas (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No

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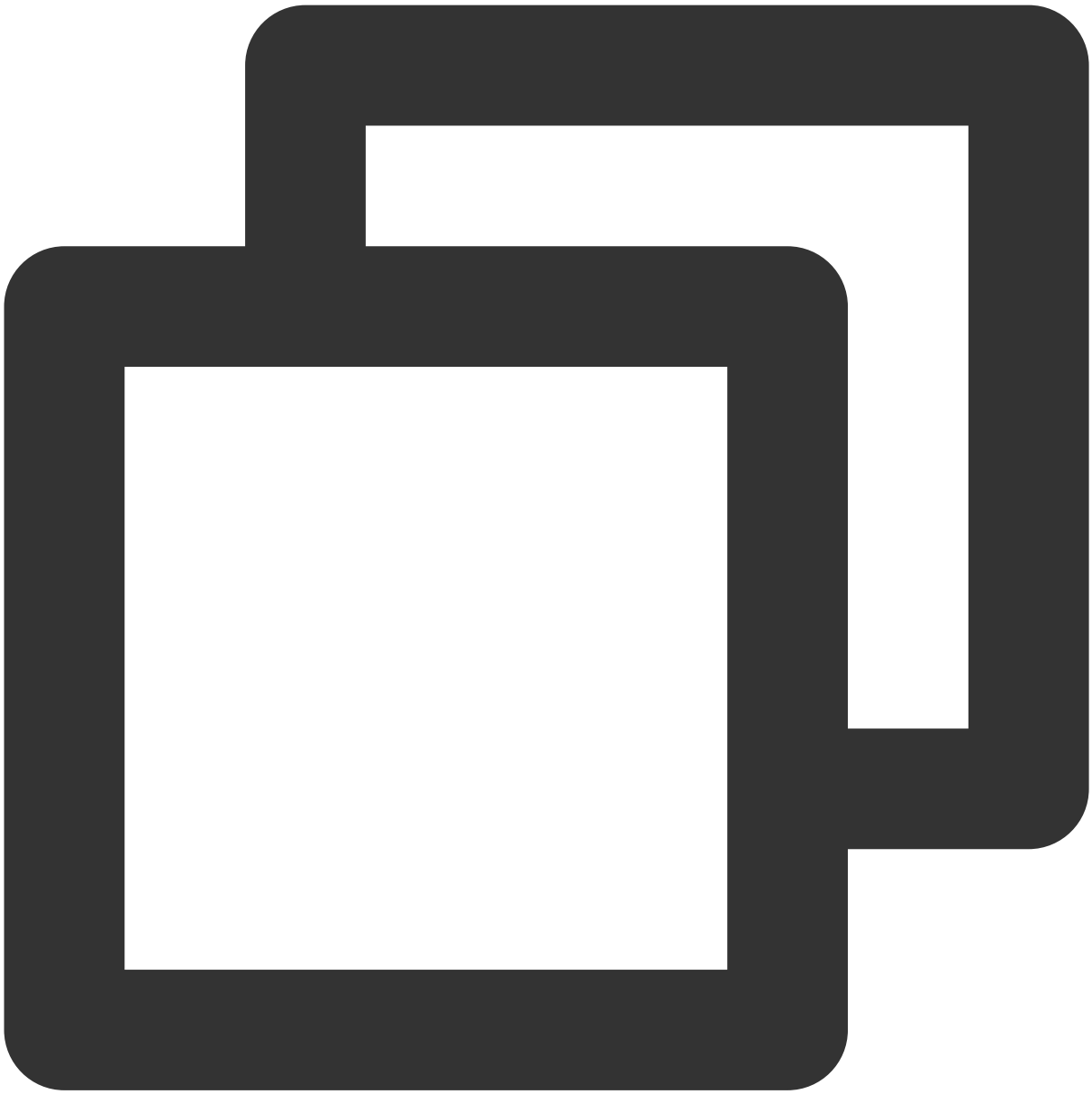
Request body

The request body contains the **application/xml** request data, including information about the object owner and authorization.



```
<AccessControlPolicy>
            <Owner>
                <ID>string</ID>
            </Owner>
            <AccessControlList>
                <Grant>
                    <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

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```
                        <URI>string</URI>
                    </Grantee>
                    <Permission>Enum</Permission>
                </Grant>
                <Grant>
                    <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                        <ID>string</ID>
                    </Grantee>
                    <Permission>Enum</Permission>
                </Grant>
            </AccessControlList>
</AccessControlPolicy>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
AccessControlPolicy	None	All request information about the `PUT Object acl` operation	Container	Yes

Content of `AccessControlPolicy`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Owner	AccessControlPolicy	Information about the object owner	Container	Yes
AccessControlList	AccessControlPolicy	Information about the grantee and permissions	Container	Yes

Content of `AccessControlPolicy.Owner`:

Node Name (Keyword)	Parent Node	Description	T
ID	AccessControlPolicy.Owner	Complete ID of the object owner in the format of `qcs::cam::uin/[OwnerUin]:uin/[OwnerUin]` Example: `qcs::cam::uin/100000000001:uin/100000000001`	s

Content of `AccessControlPolicy.AccessControlList`:

Node Name (Keyword)	Parent Node	Description	Type	Required

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Grant	AccessControlPolicy.AccessControlList	A single permission. Each `AccessControlList` supports up to 100 `Grant` nodes.	Container	Yes

Content of `AccessControlPolicy.AccessControlList.Grant`:

Node Name (Keyword)	Parent Node	Description	Type	Required
Grantee	AccessControlPolicy.AccessControlList.Grant	Grantee information. `xsi:type` can be set to `Group` or `CanonicalUser`. If set to `Group`, the child node can only include `URI`. If set to `CanonicalUser`, the child node can only include `ID`.	Container	Yes
Permission	AccessControlPolicy.AccessControlList.Grant	Permission granted. For the enumerated values, such as `READ` and `FULL_CONTROL`, please see **Actions on objects** in ACL Overview.	Enum	Yes

Content of `AccessControlPolicy.AccessControlList.Grant.Grantee`:

Node Name (Keyword)	Parent Node	Description
URI	AccessControlPolicy.AccessControlList.Grant.Grantee	Preset user group. For more information, please see **Preset us** ACL Overview. Example: `http://cam.qcloud.com/groups/global/A` `http://cam.qcloud.com/groups/global/Authenti`
ID	AccessControlPolicy.AccessControlList.Grant.Grantee	Compete ID of the grantee in the format of `qcs::cam::uin/[OwnerUin]:uin/[OwnerUin]` Example: `qcs::cam::uin/100000000001:uin/100000`

Response

Response headers

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This API only returns Common Response Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Sample 1: configuring ACL through request headers

Request

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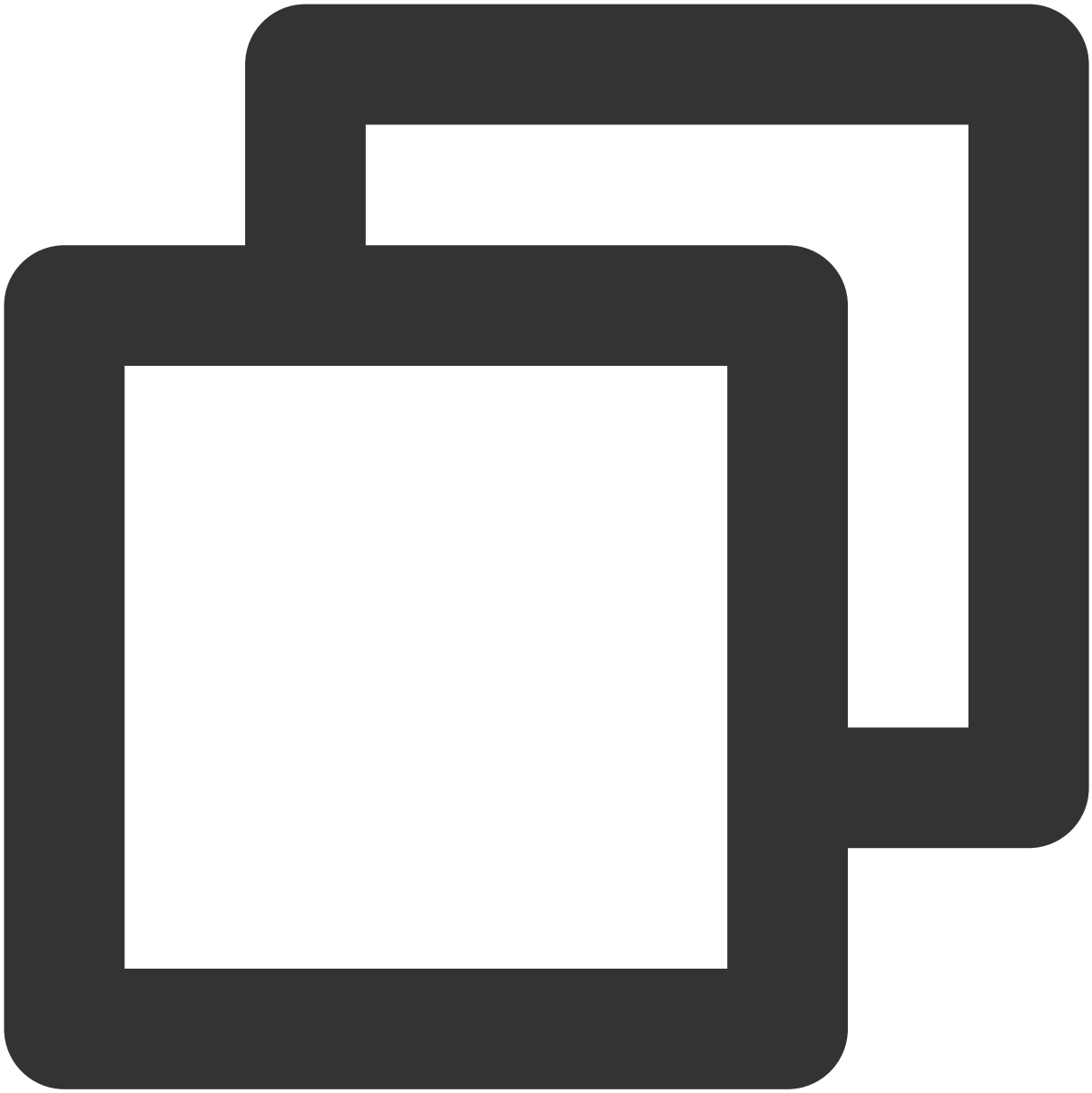

```
PUT /exampleobject?acl HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Mon, 09 Sep 2019 13:11:09 GMT
x-cos-acl: public-read
x-cos-grant-read-acp: id="100000000002"
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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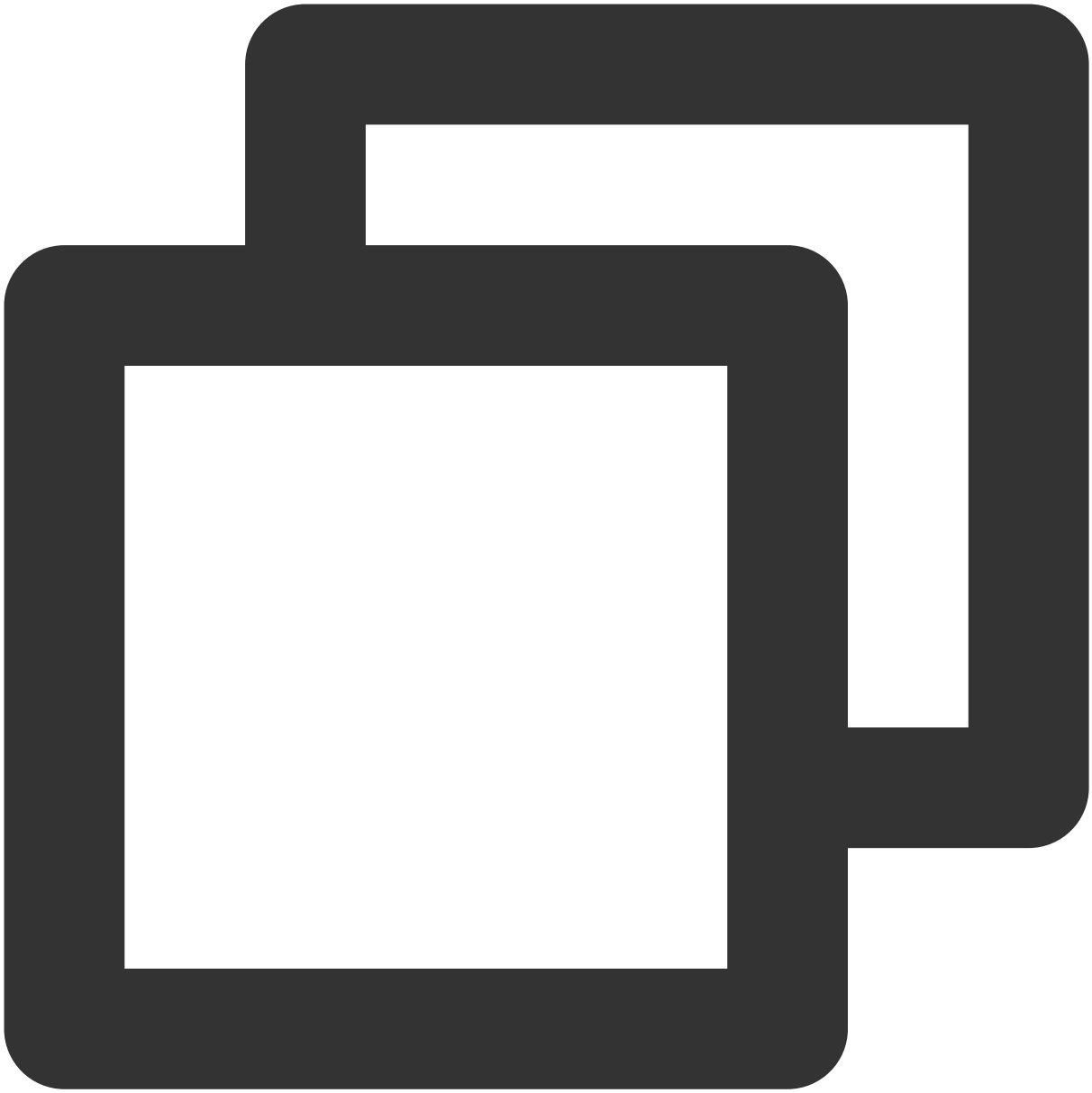

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Mon, 09 Sep 2019 13:11:10 GMT
Server: tencent-cos
x-cos-request-id: NWQ3NjRmNmRfZjZjMjBiMDlfMmE5MWJfMTI3OWZh****
```

Sample 2: configuring ACL through the request body

Request

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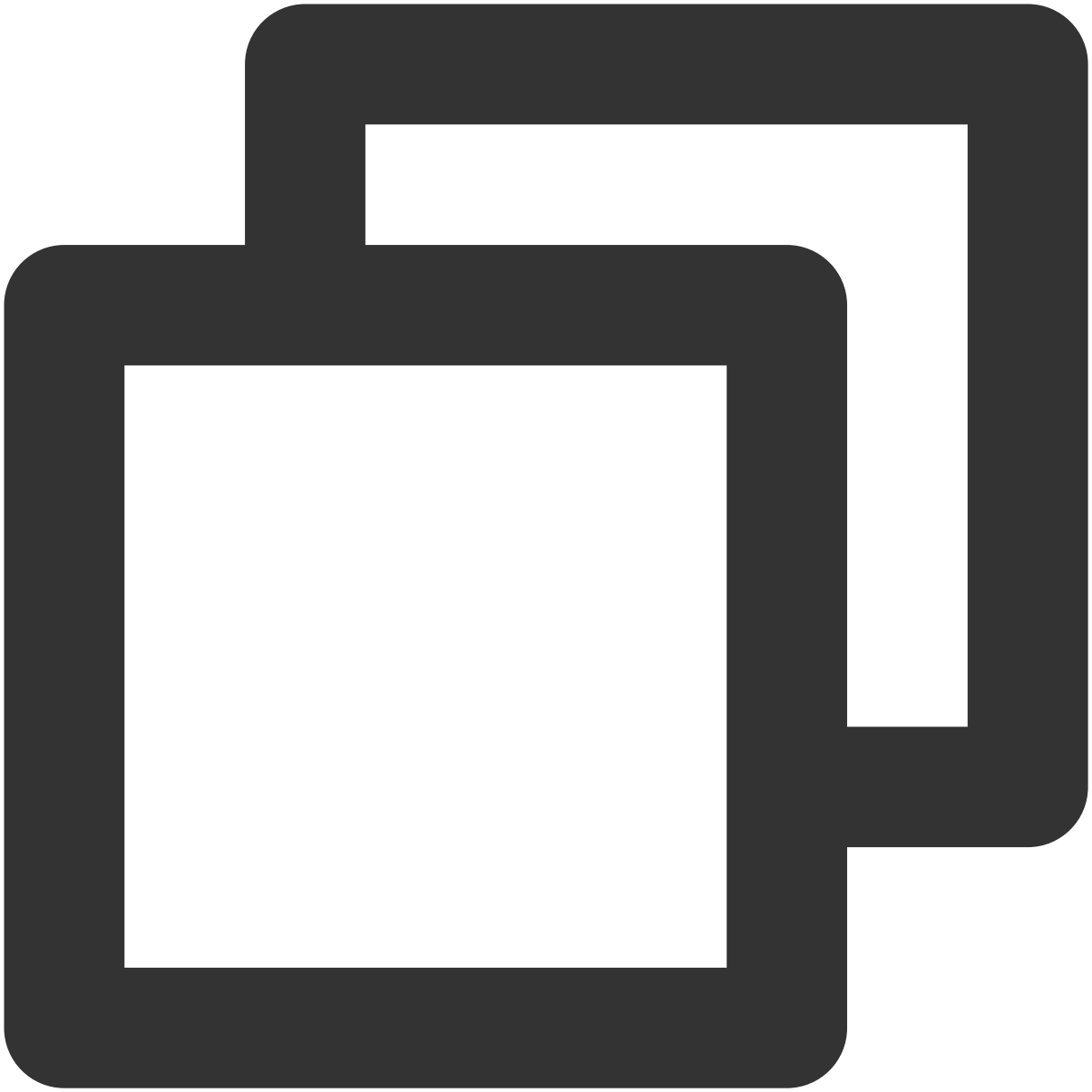

```
PUT /exampleobject?acl HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 10 Sep 2019 06:32:02 GMT
Content-Type: application/xml
Content-Length: 594
Content-MD5: zUPEBc1TeGrqTqEfPV7rxg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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```
<AccessControlPolicy>
            <Owner>
                <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
            </Owner>
            <AccessControlList>
                <Grant>
                    <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                        <URI>http://cam.qcloud.com/groups/global/AllUsers</URI>
                    </Grantee>
                    <Permission>READ</Permission>
                </Grant>
                <Grant>
                    <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                        <ID>qcs::cam::uin/100000000002:uin/100000000002</ID>
                    </Grantee>
                    <Permission>READ_ACP</Permission>
                </Grant>
            </AccessControlList>
</AccessControlPolicy>
```

Response

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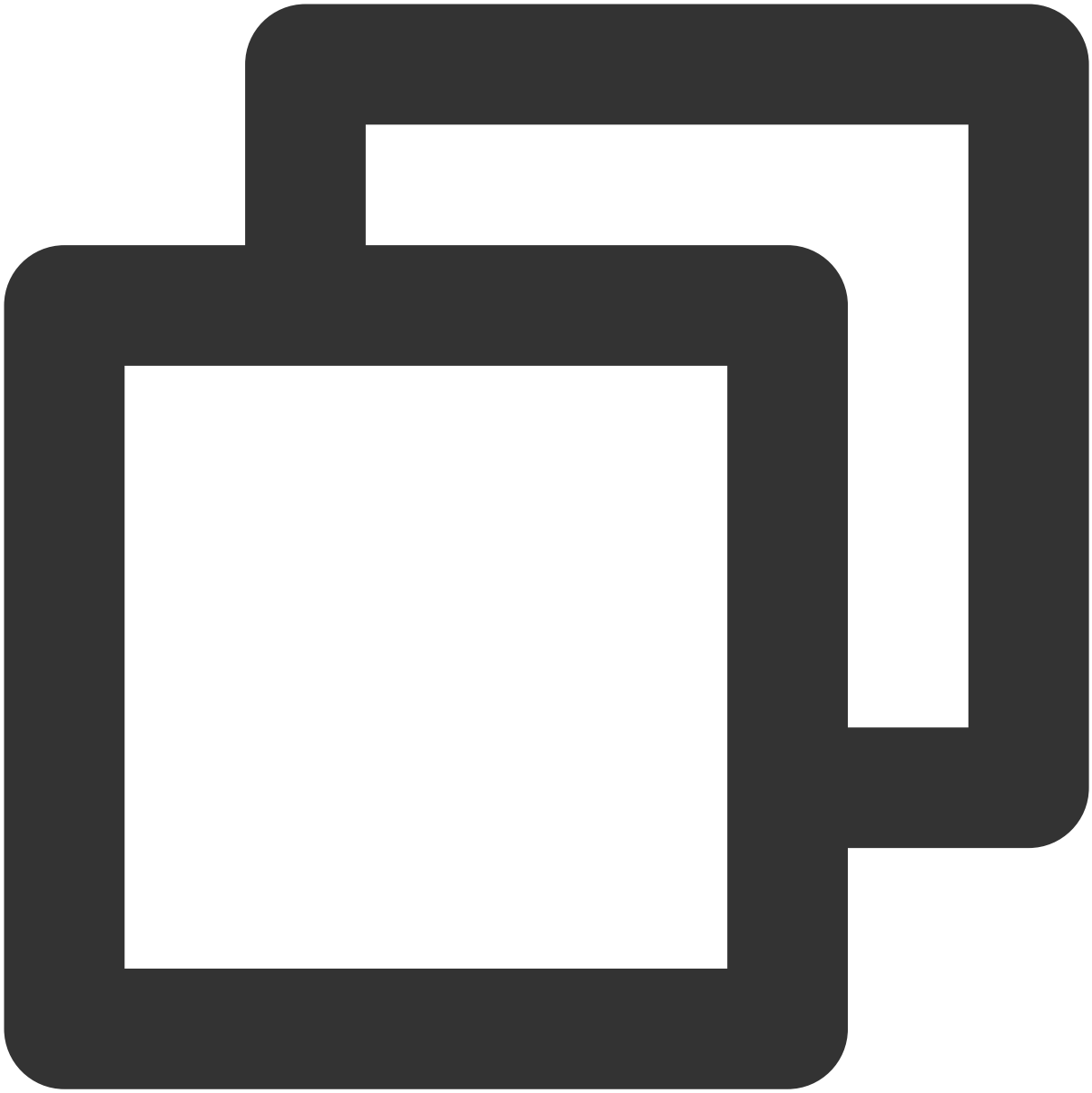

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Tue, 10 Sep 2019 06:32:02 GMT
Server: tencent-cos
x-cos-request-id: NWQ3NzQzNjJfZmVhODBiMDlfMjc5MGVfMTM4OTky****
```

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GET Object acl

Last updated：2024-06-12 15:10:38

Overview

This API is used to query the ACL of an object. To call this API, you need to have permission to read the ACL of the object.

Request

Sample request

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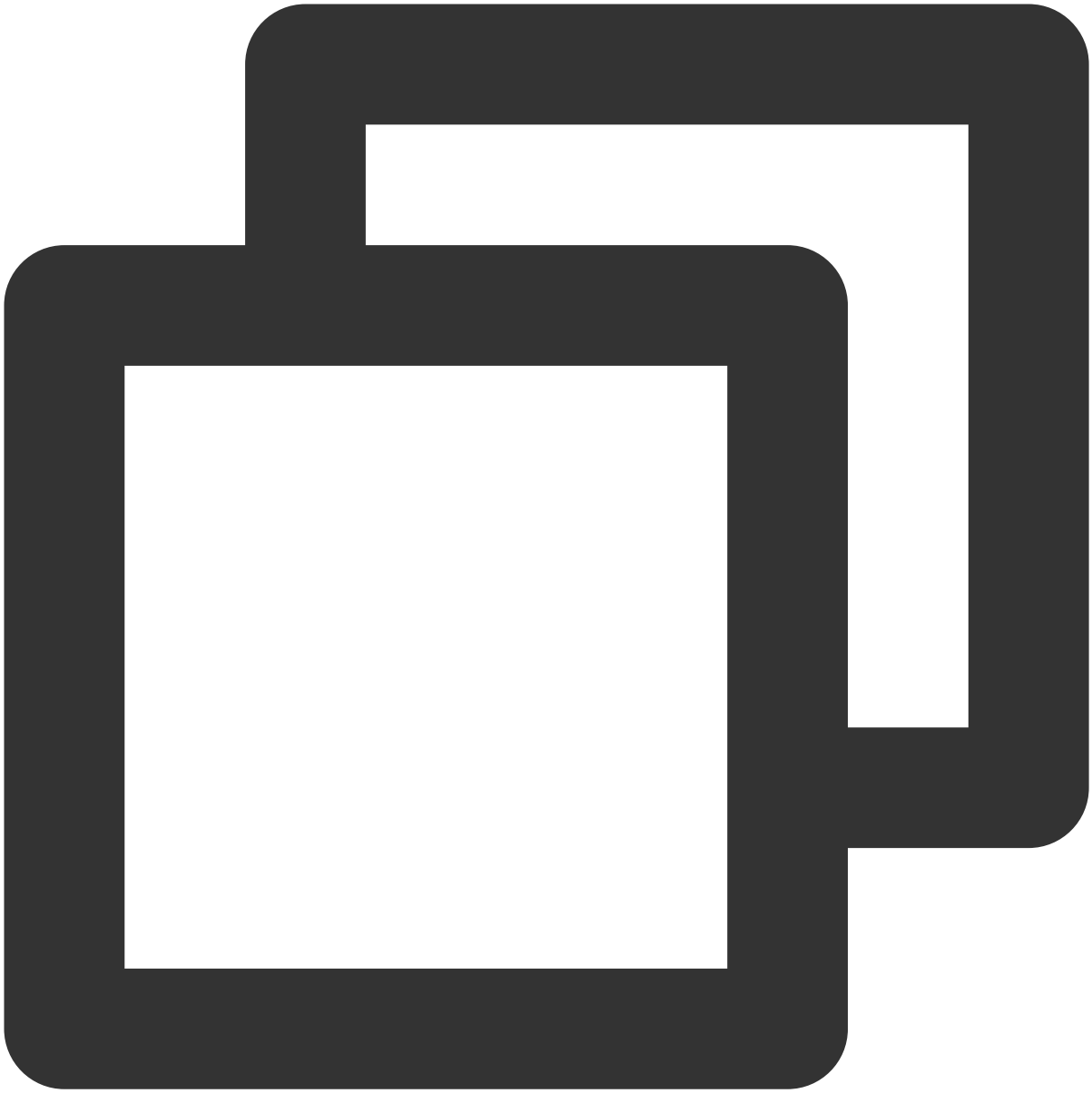

```
GET /<ObjectKey>?acl HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

In `Host: <BucketName-APPID>.cos.<Region>.myqcloud.com` , <BucketName-APPID> is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information

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and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (see Request Signature for more information).

Request parameters

This API has no request parameter.

Request headers

This API only uses Common Request Headers.

Request body

This API does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

A successful query returns the **application/xml** data, which contains the object owner and authorization information.

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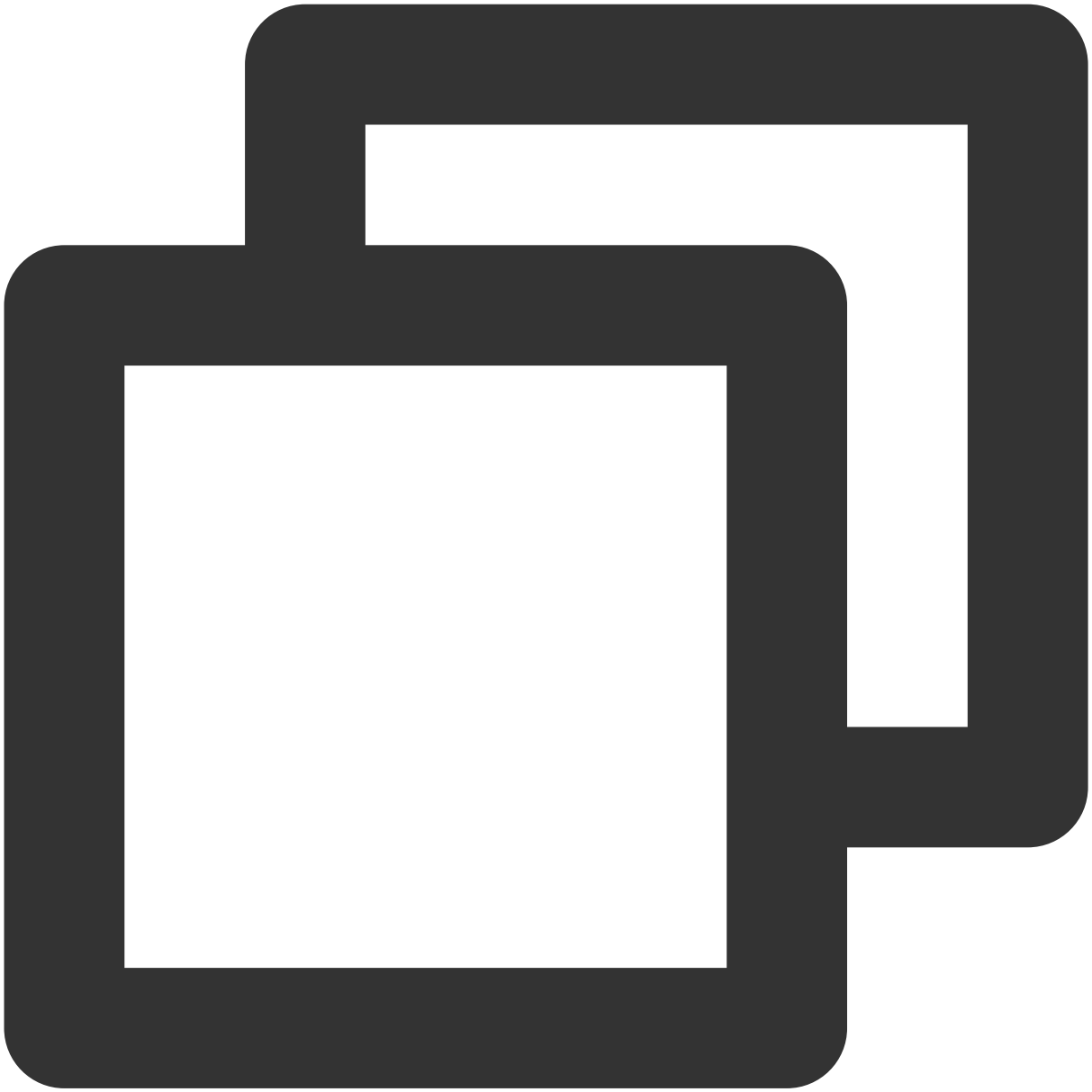

```
<AccessControlPolicy>
    <Owner>
        <ID>string</ID>
        <DisplayName>string</DisplayName>
    </Owner>
    <AccessControlList>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <URI>string</URI>
            </Grantee>
            <Permission>Enum</Permission>
```

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```
        </Grant>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <ID>string</ID>
                <DisplayName>string</DisplayName>
            </Grantee>
            <Permission>Enum</Permission>
        </Grant>
    </AccessControlList>
</AccessControlPolicy>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
AccessControlPolicy	None	Stores the result of `GET Object acl` .	Container

Content of `AccessControlPolicy` :

Node Name (Keyword)	Parent Node	Description	Type
Owner	AccessControlPolicy	Information about the object owner	Container
AccessControlList	AccessControlPolicy	Information about the grantee and permissions	Container

Content of `AccessControlPolicy.Owner` :

Node Name (Keyword)	Parent Node	Description
ID	AccessControlPolicy.Owner	Complete ID of the object owner, formatted as `qcs::cam::uin/[OwnerUin]:uin/[OwnerUin]` Example: `qcs::cam::uin/100000000001:uin/100000000001`
DisplayName	AccessControlPolicy.Owner	Name of the object owner

Content of `AccessControlPolicy.AccessControlList` :

Node Name (Keyword)	Parent Node	Description	Type
Grant	AccessControlPolicy.AccessControlList	A single permission	Container

Content of `AccessControlPolicy.AccessControlList.Grant` :

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Node Name (Keyword)	Parent Node	Description	Type
Grantee	AccessControlPolicy.AccessControlList.Grant	Grantee information. `xsi:type` can be set to `Group` or `CanonicalUser`. If `xsi:type` is set to `Group`, the child node can contain only `URI`. If `xsi:type` is set to `CanonicalUser`, the child node can contain only `ID` and `DisplayName`.	Container
Permission	AccessControlPolicy.AccessControlList.Grant	Permission granted. For the enumerated values, such as `READ` and `FULL_CONTROL`, please see Actions on objects in ACL Overview.	Enum

Content of `AccessControlPolicy.AccessControlList.Grant.Grantee`:

Node Name (Keyword)	Parent Node	Description
URI	AccessControlPolicy.AccessControlList.Grant.Grantee	Preset user group. For more informatio Overview. Example: `http://cam.qcloud.co` `http://cam.qcloud.com/group`
ID	AccessControlPolicy.AccessControlList.Grant.Grantee	Compete ID of the grantee, formatted a `qcs::cam::uin/[OwnerUin]:ui` Example: `qcs::cam::uin/100000`
DisplayName	AccessControlPolicy.AccessControlList.Grant.Grantee	Name of the grantee

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

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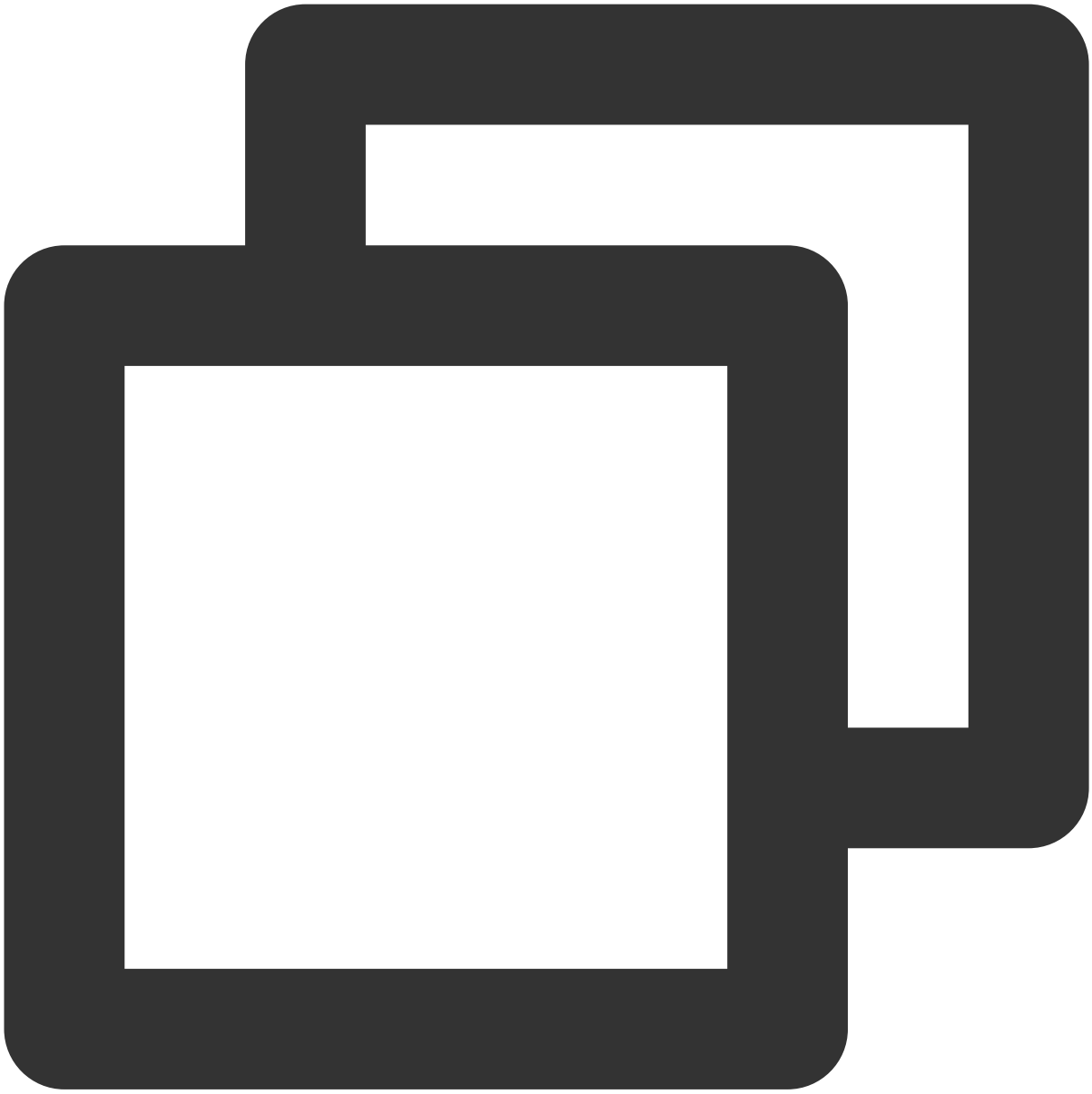
Sample

Request



```
GET /exampleobject?acl HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 10 Sep 2019 08:29:26 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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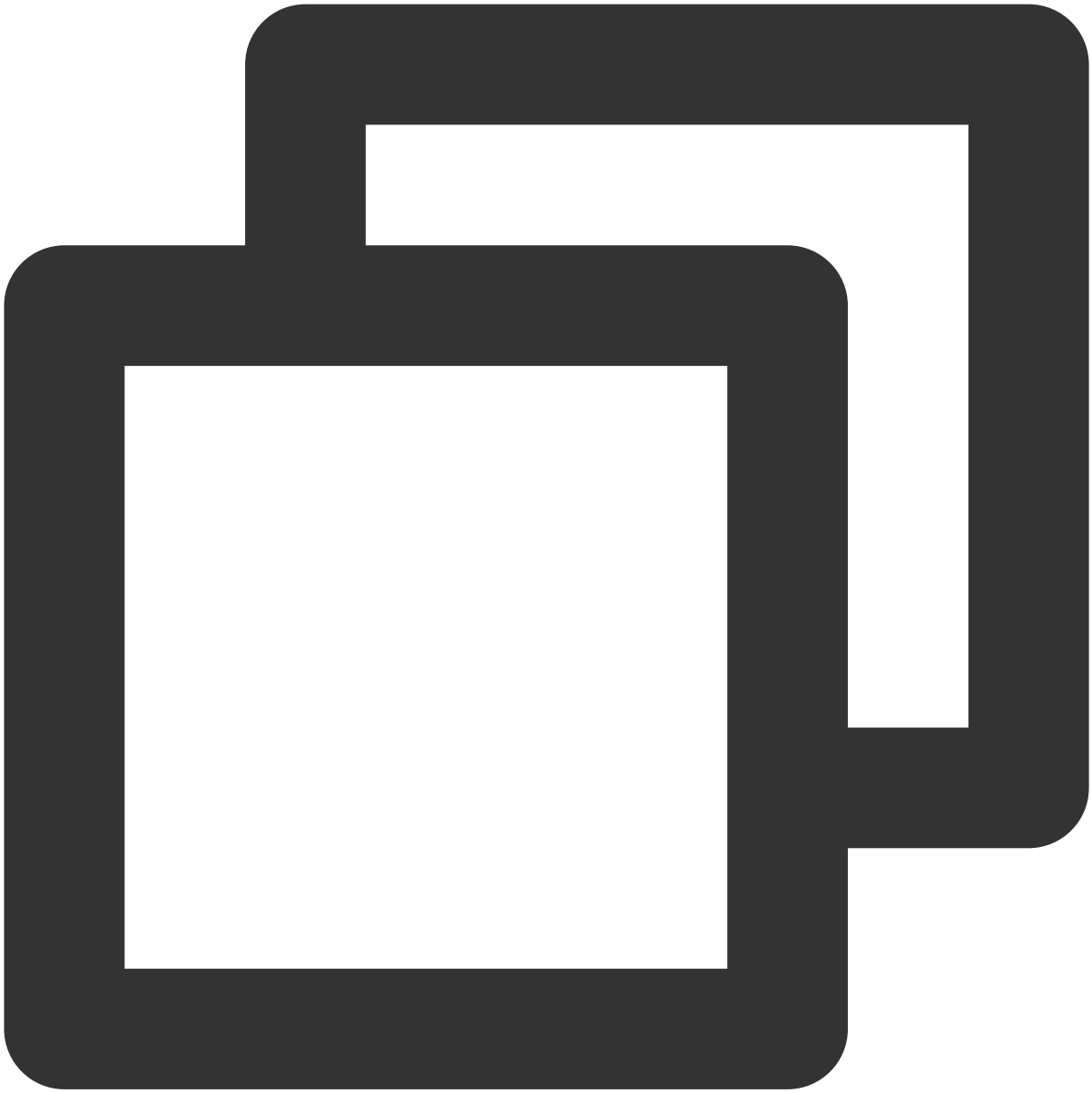
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 742
Connection: close
Date: Tue, 10 Sep 2019 08:29:26 GMT
Server: tencent-cos
x-cos-request-id: NWQ3NzVlZTZfYmIwMmEwOV83YTQ5XzEzNTcx****

<AccessControlPolicy>
```

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```
    <Owner>
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
        <DisplayName>qcs::cam::uin/100000000001:uin/100000000001</DisplayName>
    </Owner>
    <AccessControlList>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <URI>http://cam.qcloud.com/groups/global/AllUsers</URI>
            </Grantee>
            <Permission>READ</Permission>
        </Grant>
        <Grant>
            <Grantee xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type
                <ID>qcs::cam::uin/100000000002:uin/100000000002</ID>
                <DisplayName>qcs::cam::uin/100000000002:uin/100000000002</DisplayNa
            </Grantee>
            <Permission>READ_ACP</Permission>
        </Grant>
    </AccessControlList>
</AccessControlPolicy>
```

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Multipart Upload
Initiate Multipart Upload

Last updated：2024-06-12 15:10:38

Overview

This API is used to initialize a multipart upload. After a successful operation, `UploadId` will be returned, which can be used in subsequent `Upload Part` requests.

Note:

Only the root account or sub-accounts granted the permission of the `Initiate Multipart Upload` API can call this API.

Request

Sample request

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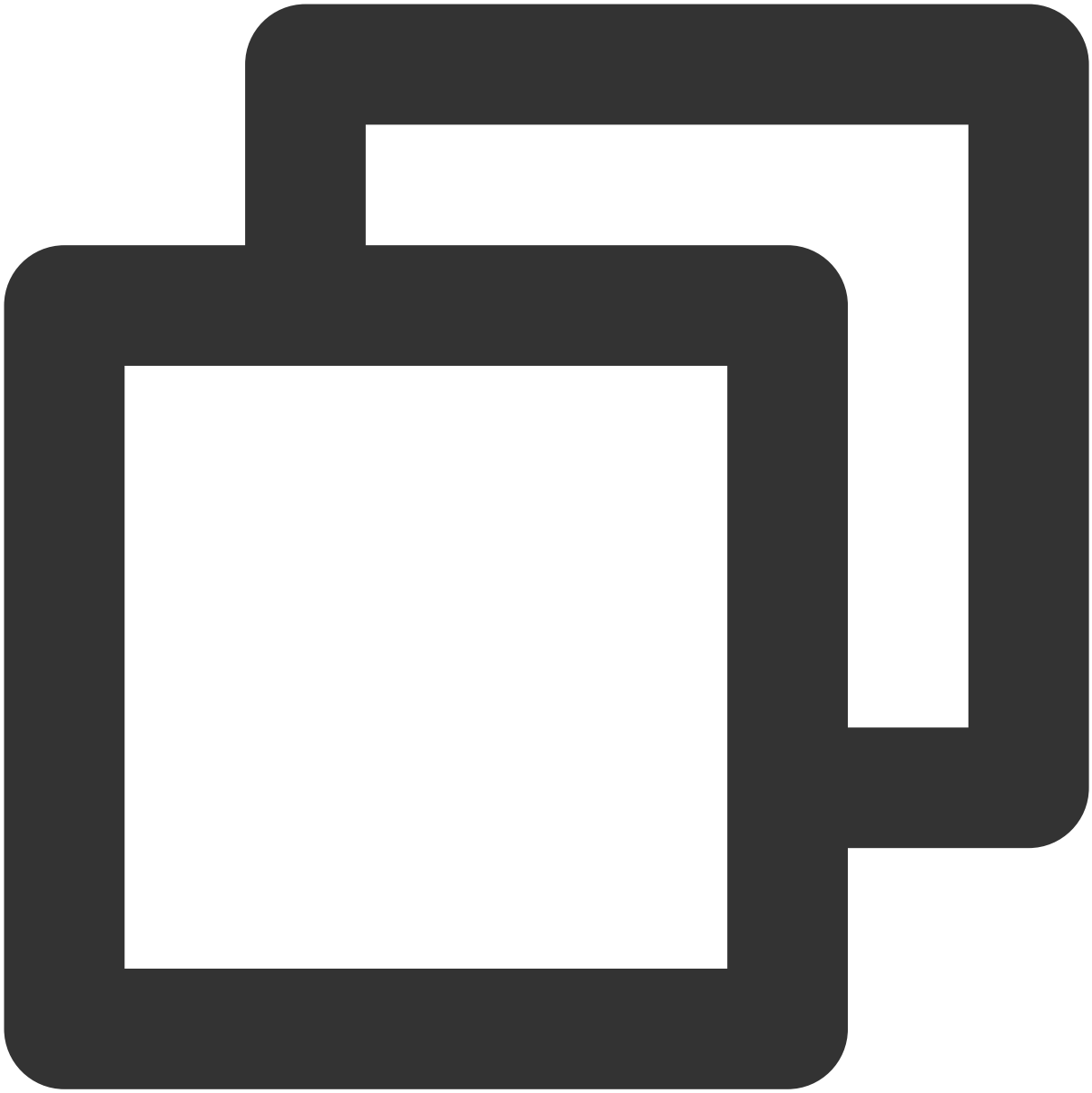

```
POST /<ObjectKey>?uploads HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: Content Type
Content-Length: 0
Authorization: Auth String
```

Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and

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Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request parameters

This API has no request parameter.

Request headers

In addition to common request headers, this API also supports the following request headers. For more information about common request headers, please see Common Request Headers.

Header	Description	Type	Required
Cache-Control	Cache directives as defined in RFC 2616. It will be stored as object metadata.	string	No
Content-Disposition	Filename defined in RFC 2616. It will be stored as object metadata.	string	No
Content-Encoding	Encoding format as defined in RFC 2616. It will be stored as object metadata.	string	No
Content-Type	HTTP request content type (MIME) as defined in RFC 2616. This header describes the content type of the object to be uploaded and will be stored as object metadata. Example: `text/html` , `image/jpeg`	string	Yes
Expires	The cache expiration time as defined in RFC 2616. It will be stored as object metadata.	string	No
x-cos-meta-*	Contains user-defined metadata and header suffixes. It will be stored as object metadata. Maximum size: 2 KB. **Note:** User-defined metadata can contain underscores (_), whereas the header suffixes of user-defined metadata can only contain minus signs (–) but not underscores.	string	No
x-cos-storage-class	Object storage class. For the enumerated values, such as `STANDARD` (default), `INTELLIGENT_TIERING` , `STANDARD_IA` , `ARCHIVE` , and `DEEP_ARCHIVE` , please see Storage Class Overview.	Enum	No
x-cos-tagging	A set of up to 10 object tags (for example, `Key1=Value1&Key2=Value2`). Tag key and tag value in the set must be URL-encoded.	string	No

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ACL-related headers

You can configure an access control list (ACL) for the object by specifying the following request headers during the upload:

Header	Description	Type	Required
x-cos-acl	Defines the ACL attribute of the object. For the enumerated values, such as `default`, `private`, and `public-read`, please see the **Preset ACL** section in ACL Overview. Default value: `default`. **Note**: If you do not need to set an ACL for the object, set this parameter to `default` or leave it empty. In this way, the object will inherit the permissions of the bucket it is stored in.	Enum	No
x-cos-grant-read	Grants a user read permission for an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use commas (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-read-acp	Grants a user read permission for the ACL of an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use commas (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-write-acp	Grants a user write permission for the ACL of an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use commas (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No
x-cos-grant-full-control	Grants a user full permission to operate on an object in the format: `id="[OwnerUin]"` (e.g., `id="100000000001"`). You can use commas (,) to separate multiple users, for example, `id="100000000001",id="100000000002"`.	string	No

SSE-related headers

Server-side encryption can be used during object upload. For more information, see Server-side encryption headers.

Request body

This API does not have a request body.

Response

Response headers

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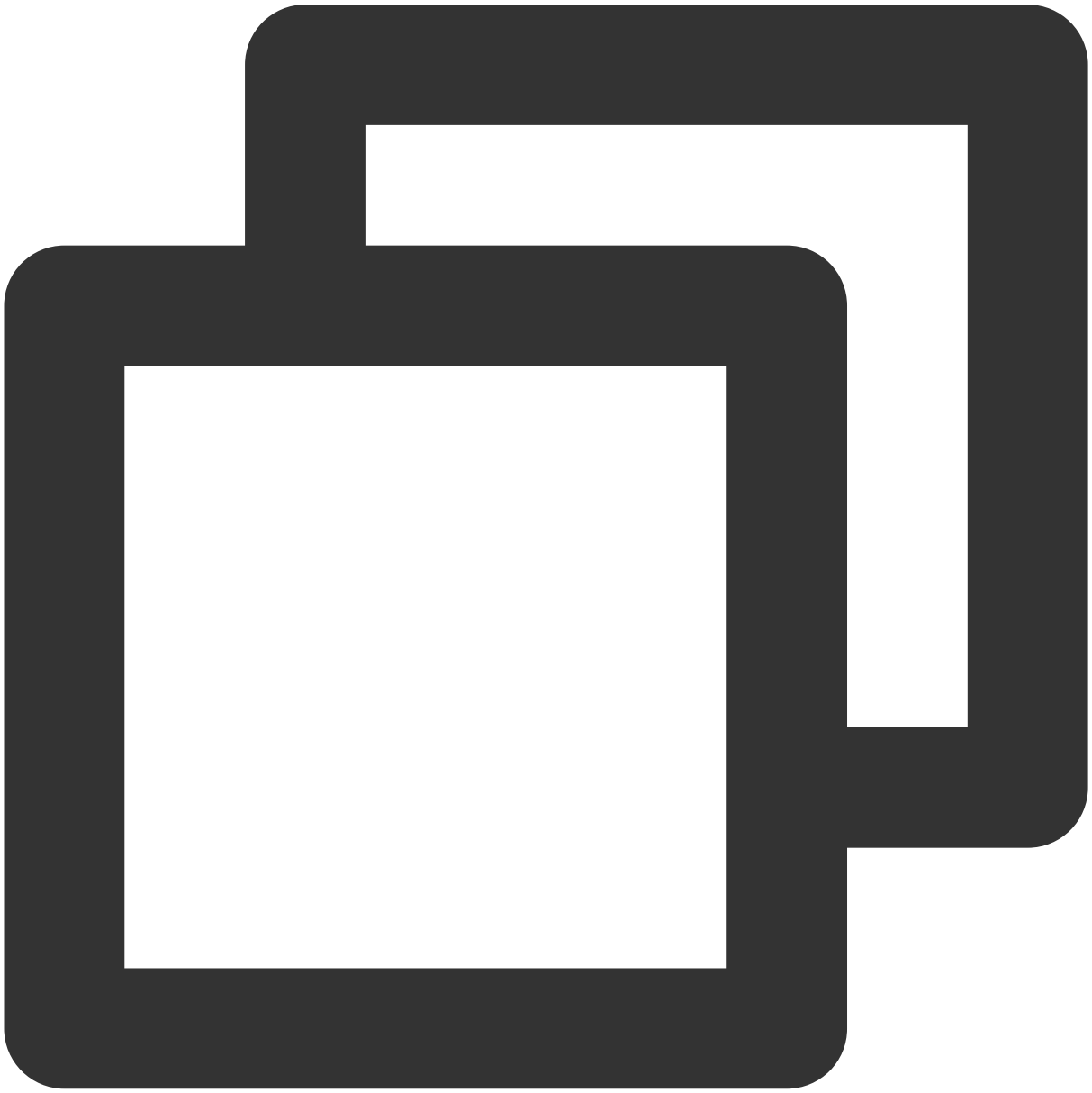
In addition to common response headers, this API also returns the following response headers. For more information about common response headers, please see Common Response Headers.

SSE-related headers

If server-side encryption is used during object upload, this API will return headers used specifically for server-side encryption. For more information, please see Server-Side Encryption Headers.

Response body

application/xml data that contains the multipart upload initialization information will be returned for a successful request.



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```
<InitiateMultipartUploadResult>
       <Bucket>string</Bucket>
       <Key>string</Key>
       <UploadId>string</UploadId>
</InitiateMultipartUploadResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
InitiateMultipartUploadResult	None	Stores the result of `Initiate Multipart Upload`	Container

Content of `InitiateMultipartUploadResult:

Node Name (Keyword)	Parent Node	Description	Type
Bucket	InitiateMultipartUploadResult	Destination bucket	string
Key	InitiateMultipartUploadResult	Destination object key	string
UploadId	InitiateMultipartUploadResult	`UploadId` that can be used in subsequent `Upload Part` requests	string

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example 1: simple use case

Request

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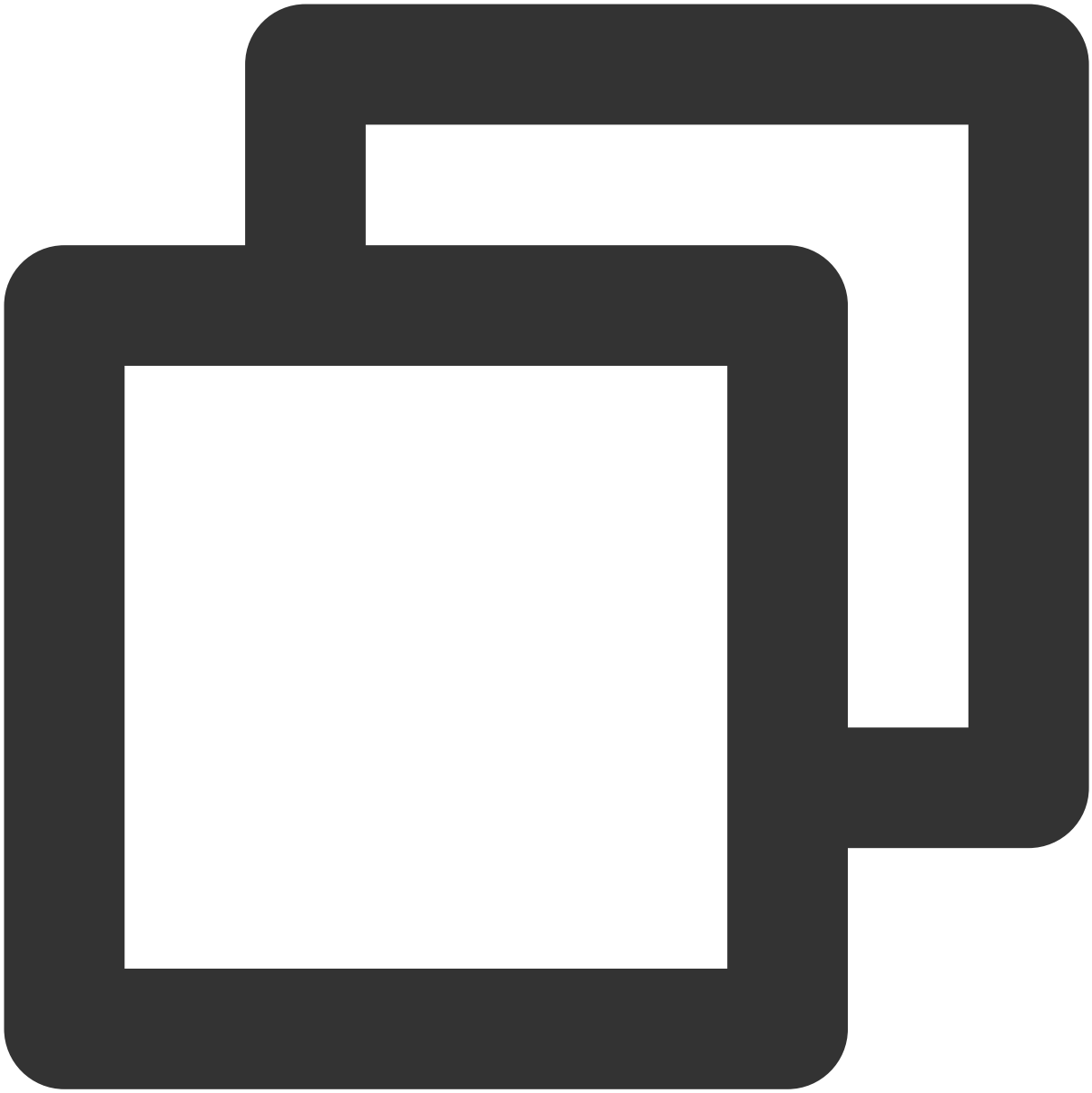

```
POST /exampleobject?uploads HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 25 Mar 2020 10:07:01 GMT
Content-Type: video/mp4
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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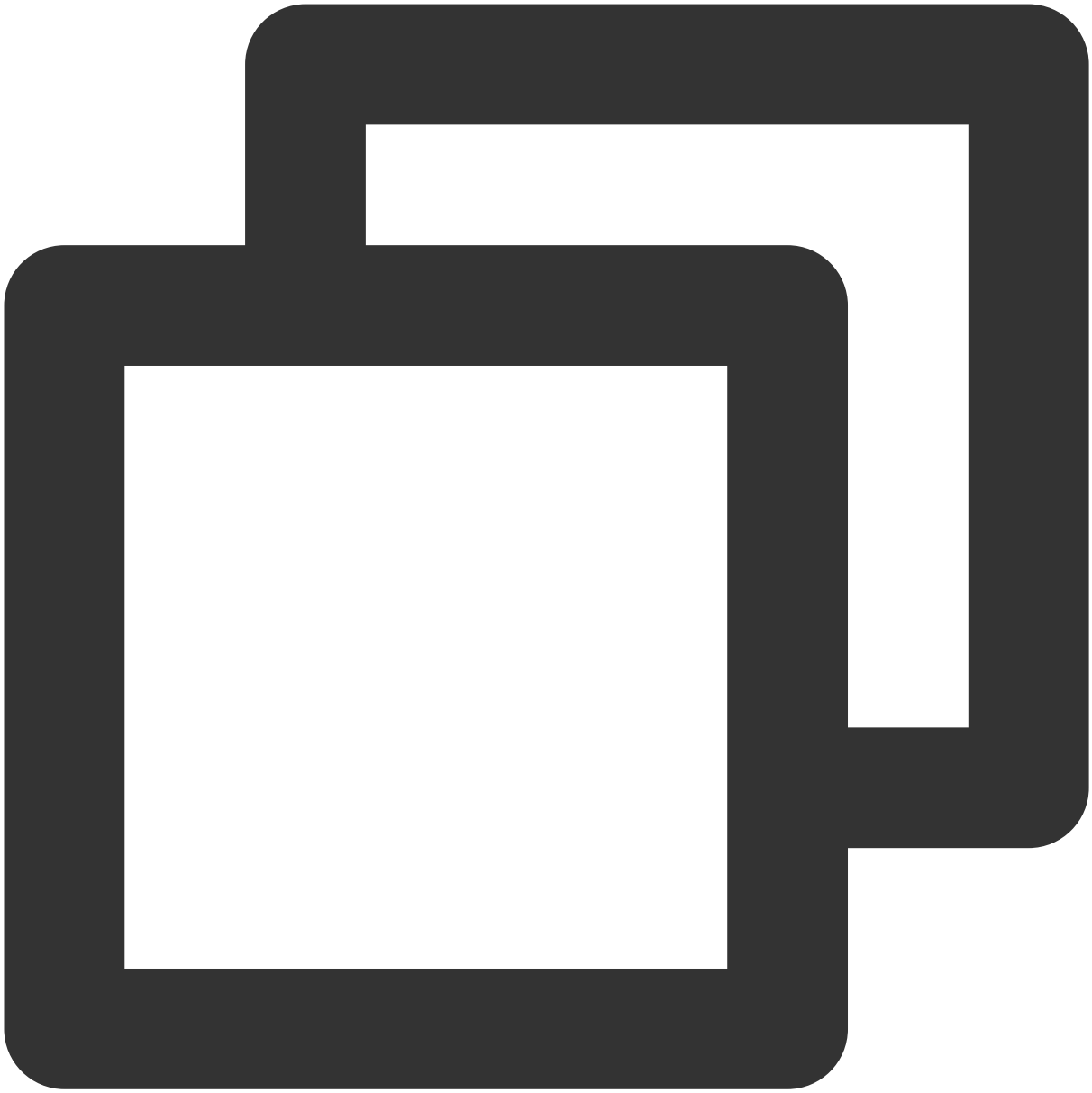

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: close
Date: Wed, 25 Mar 2020 10:07:01 GMT
Server: tencent-cos
x-cos-request-id: NWU3YjJkNDVfNDliNTJhMDlfYzZhMl8yOTVj****



<InitiateMultipartUploadResult>
```

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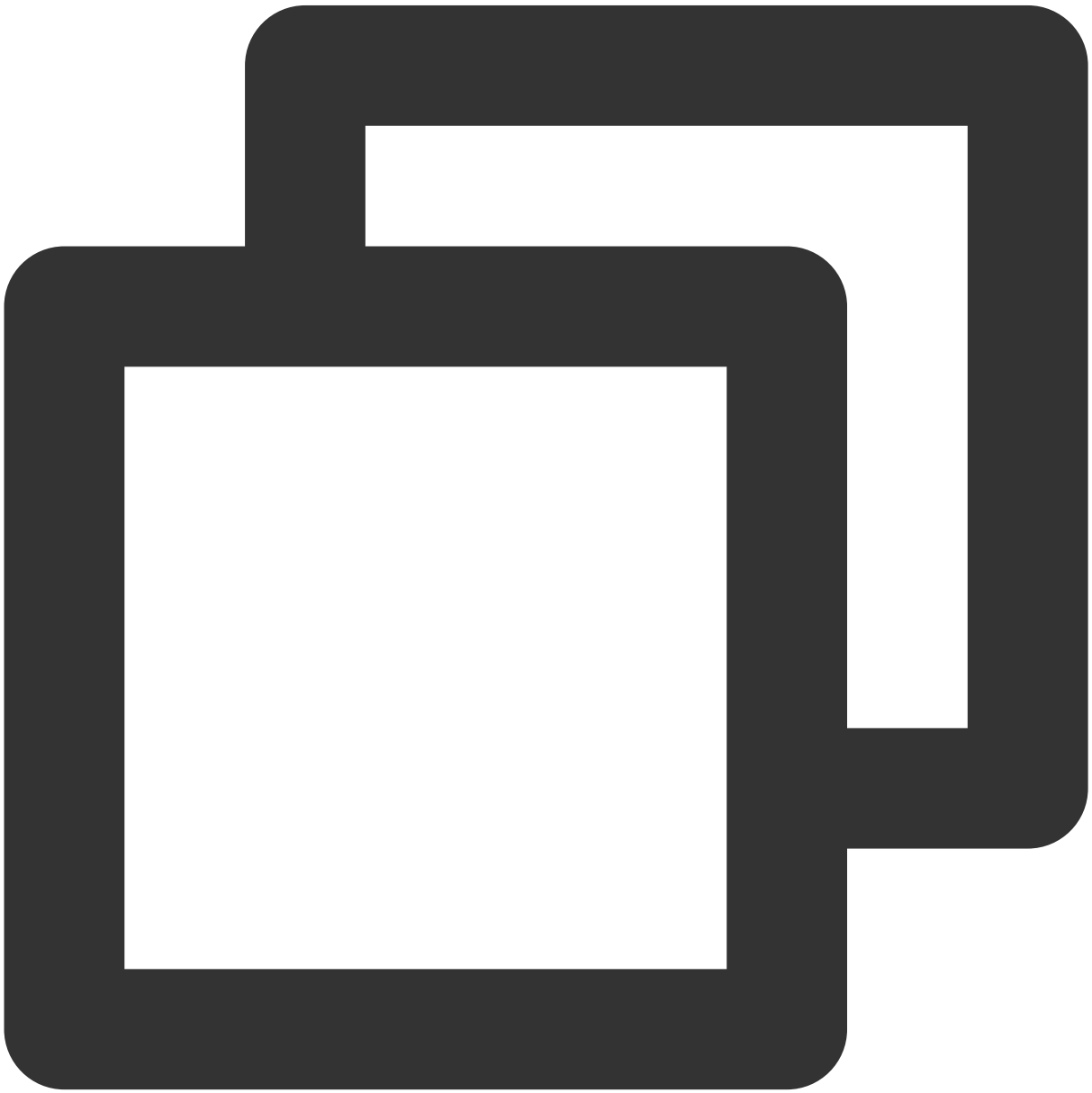
```
            <Bucket>examplebucket-1250000000</Bucket>
            <Key>exampleobject</Key>
            <UploadId>1585130821cbb7df1d11846c073ad648e8f33b087cec2381df437acdc833c
</InitiateMultipartUploadResult>
```

Example 2: specifying metadata and ACL using request headers

Request



```
POST /exampleobject?uploads HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

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```
Date: Thu, 28 May 2020 08:35:34 GMT
Content-Type: video/mp4
Cache-Control: max-age=86400
Content-Disposition: attachment; filename=example.jpg
x-cos-meta-example-field: example-value
x-cos-acl: public-read
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response

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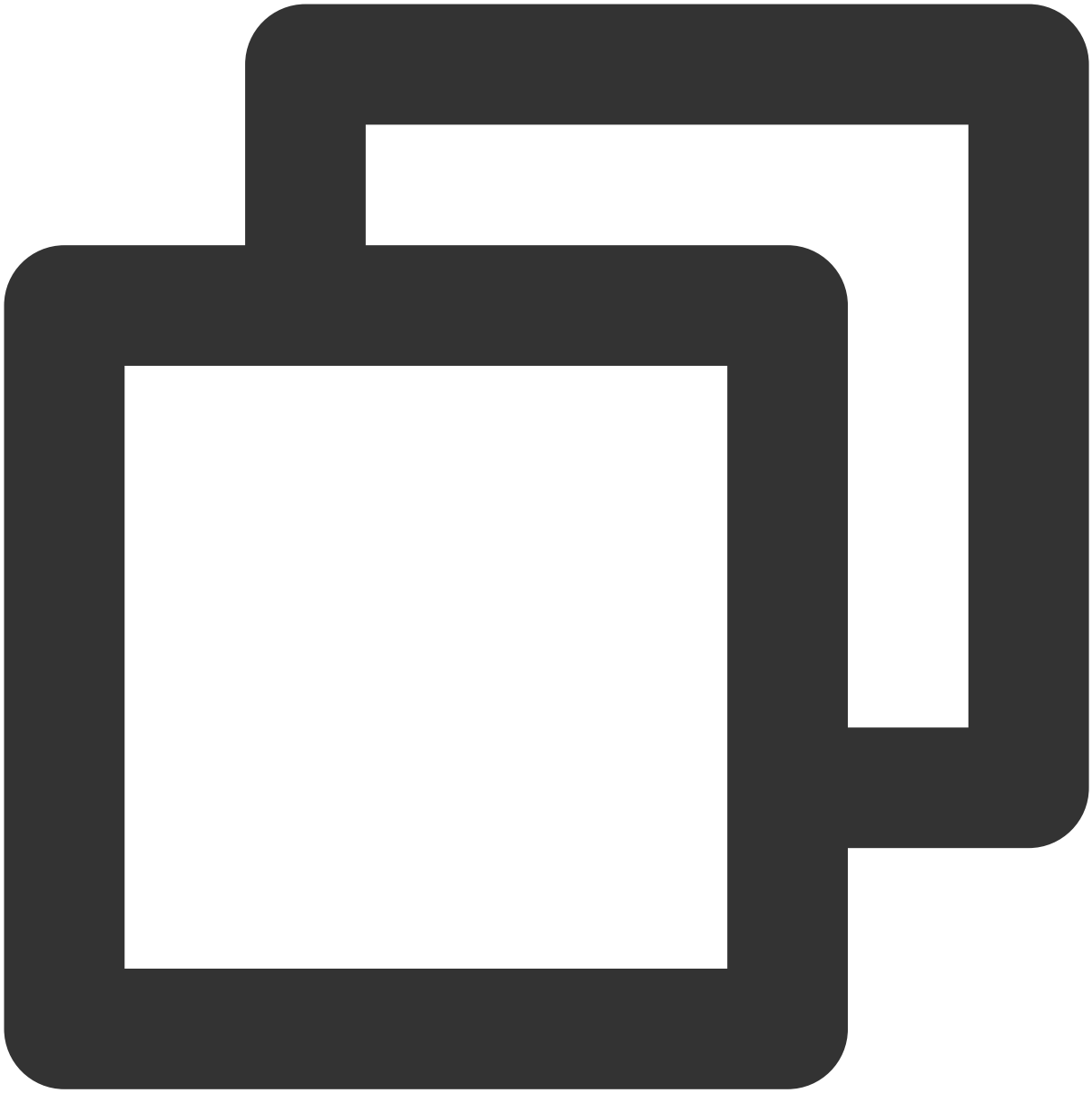

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: close
Date: Thu, 28 May 2020 08:35:34 GMT
Server: tencent-cos
x-cos-request-id: NWVjZjc3ZDZfOThjMjJhMDlfMjg5N18zNWYy****



<InitiateMultipartUploadResult>
```

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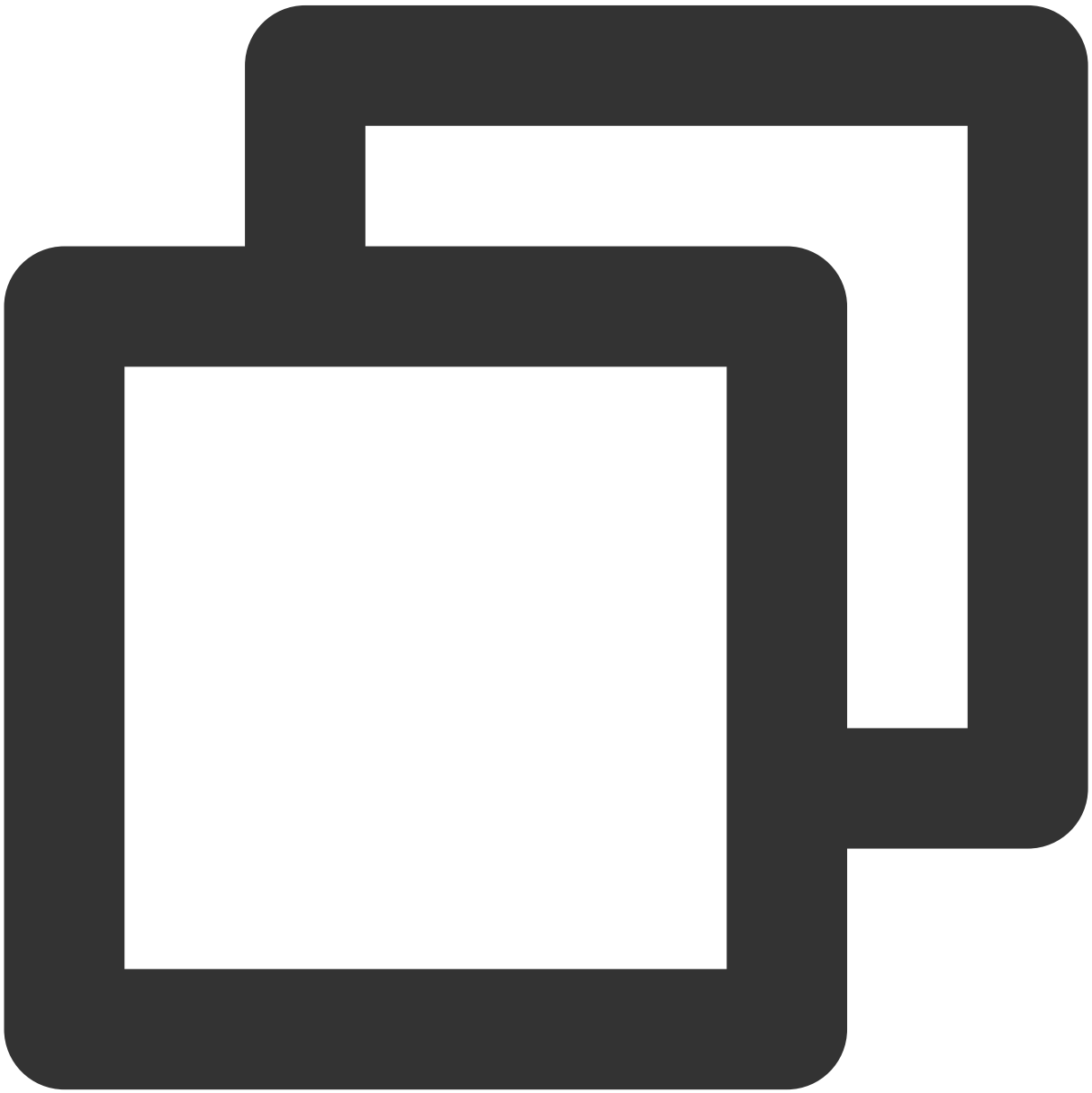
```
            <Bucket>examplebucket-1250000000</Bucket>
            <Key>exampleobject</Key>
            <UploadId>1590654934dfb1343b4323b711afc22569c18af51596d4f2e40faf392fe1b
</InitiateMultipartUploadResult>
```

Example 3: using server-side encryption SSE-COS

Request



```
POST /exampleobject?uploads HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

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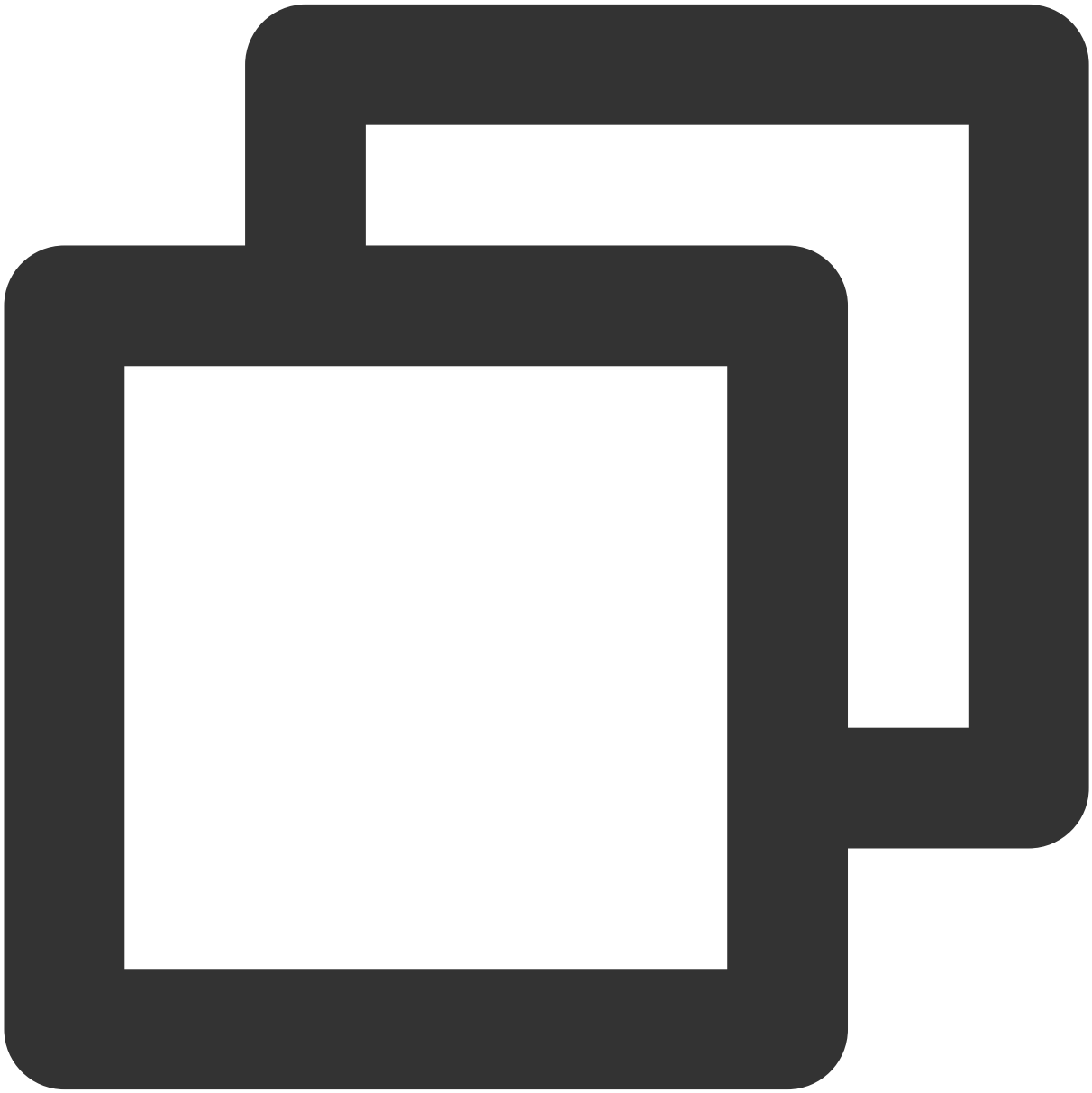
```
Date: Thu, 28 May 2020 08:43:58 GMT
Content-Type: video/mp4
x-cos-server-side-encryption: AES256
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 230
Connection: close
Date: Thu, 28 May 2020 08:43:58 GMT
Server: tencent-cos
x-cos-request-id: NWVjZjc5Y2VfZjhjODBiMDlfMjIyOGFfMzYxYWVm****
x-cos-server-side-encryption: AES256



<InitiateMultipartUploadResult>
            <Bucket>examplebucket-1250000000</Bucket>
            <Key>exampleobject</Key>
            <UploadId>15906554384f160dd0a272ebb6fbcdb0ffbb61adb2b46fa6b9f2ffabcfb29
</InitiateMultipartUploadResult>
```

Example 4: using server-side encryption SSE-KMS

Request

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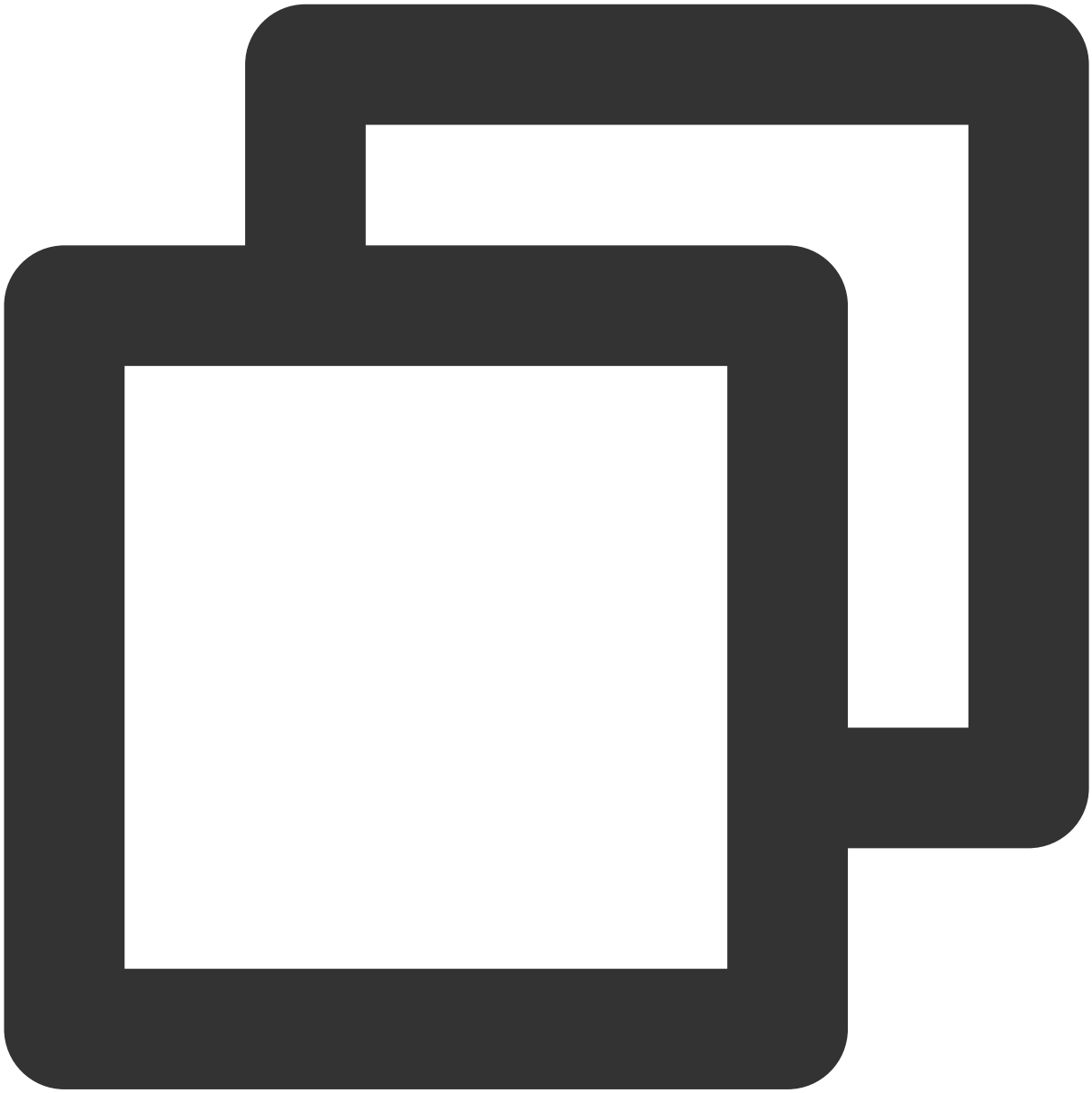

```
POST /exampleobject?uploads HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 28 May 2020 08:44:19 GMT
Content-Type: video/mp4
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
x-cos-server-side-encryption-context: eyJhdXRob3IiOiJmeXNudGlhbiIsImNvbXBhbnkiOiJUZ
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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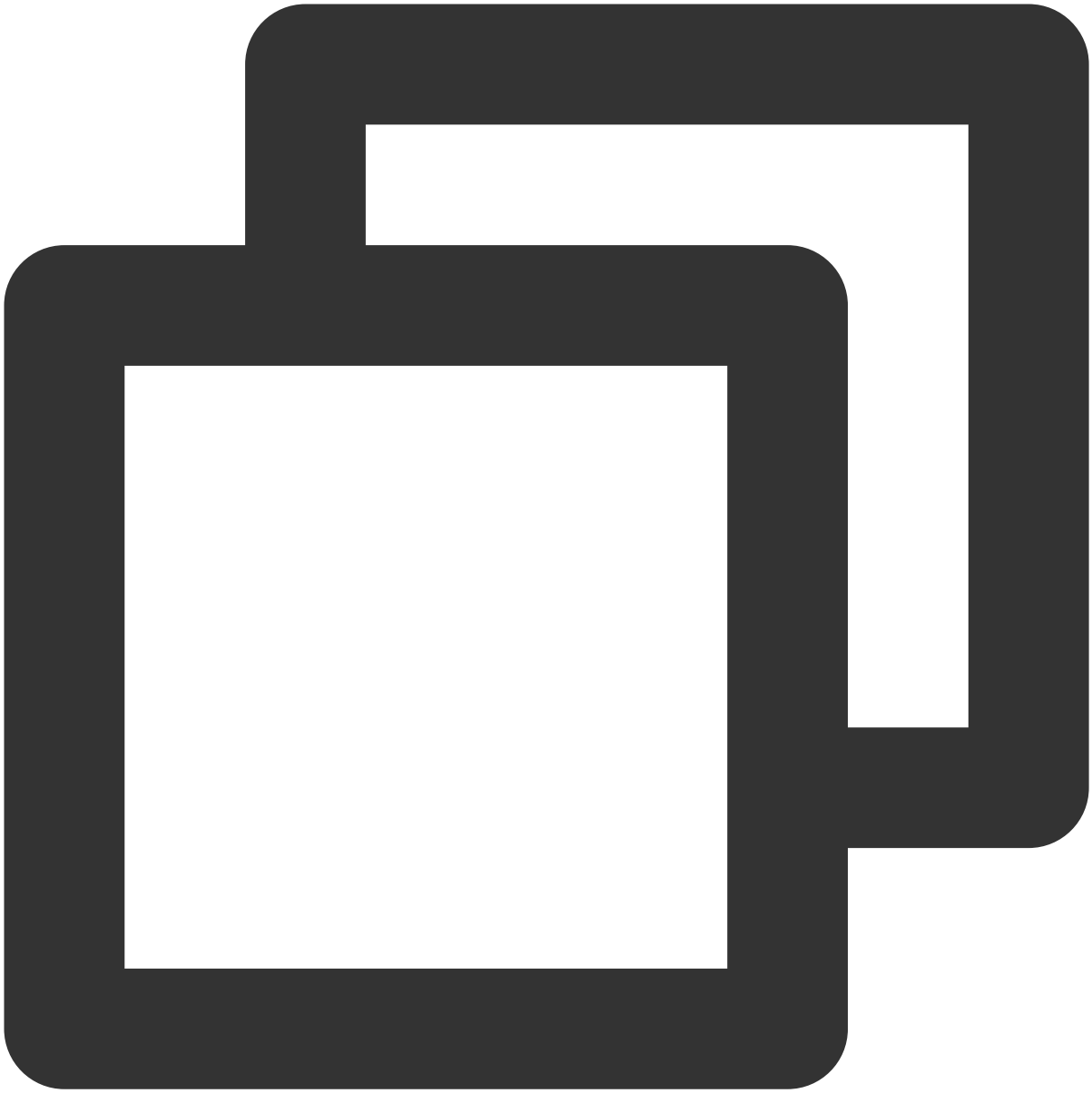
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: close
Date: Thu, 28 May 2020 08:44:20 GMT
Server: tencent-cos
x-cos-request-id: NWVjZjc5ZTNfMmZiOTJhMDlfMzJlNDJfMjkzNGJi****
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
```

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```
<InitiateMultipartUploadResult>
            <Bucket>examplebucket-1250000000</Bucket>
            <Key>exampleobject</Key>
            <UploadId>1590655460799012170 2e8e4b706eb0f12b8568a3f3b0b76b884e4df676ed
</InitiateMultipartUploadResult>
```

Example 5: using server-side encryption SSE-C

Request

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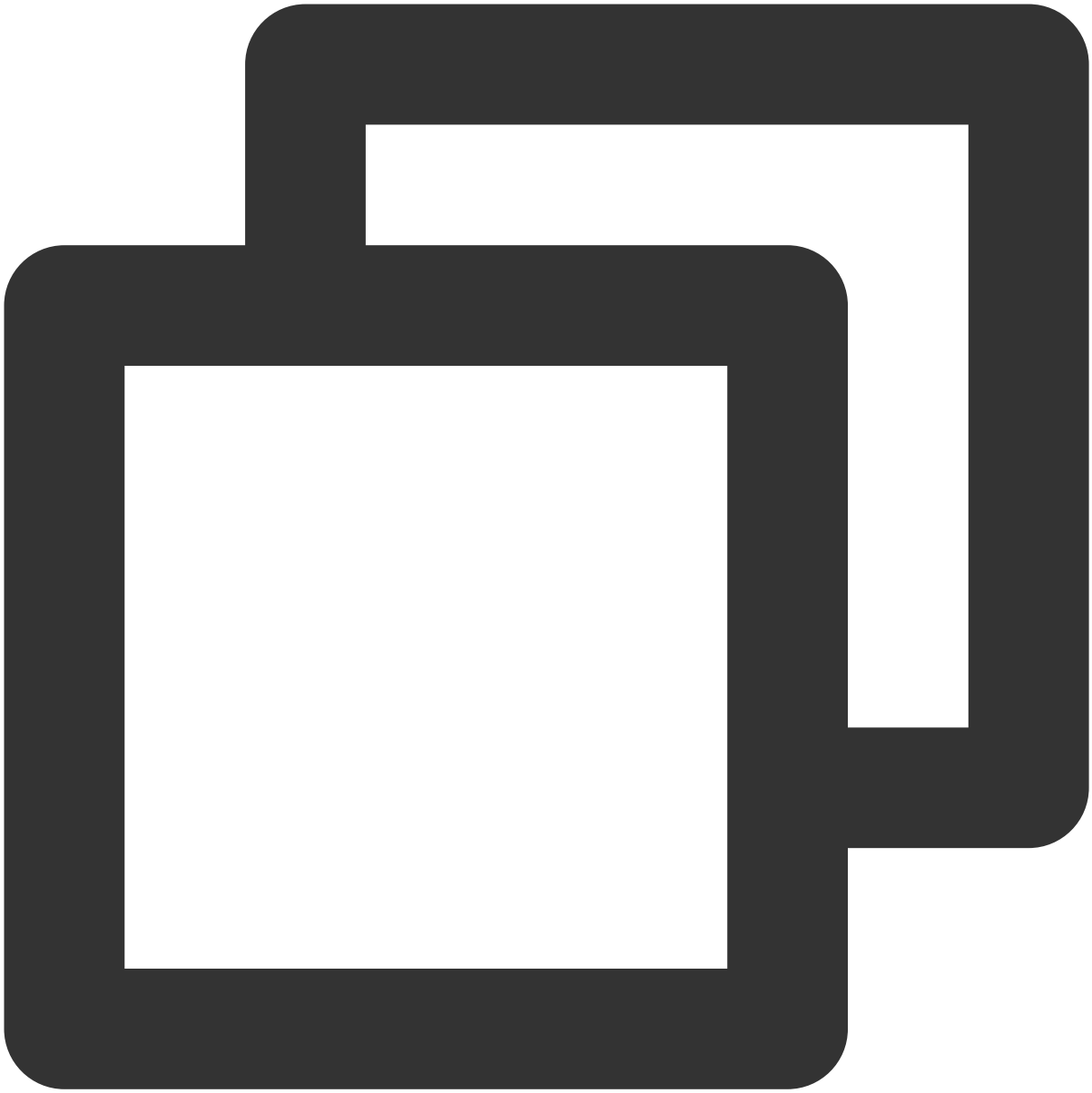

```
POST /exampleobject?uploads HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Thu, 28 May 2020 08:44:41 GMT
Content-Type: video/mp4
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key: MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNE
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
Content-Length: 0
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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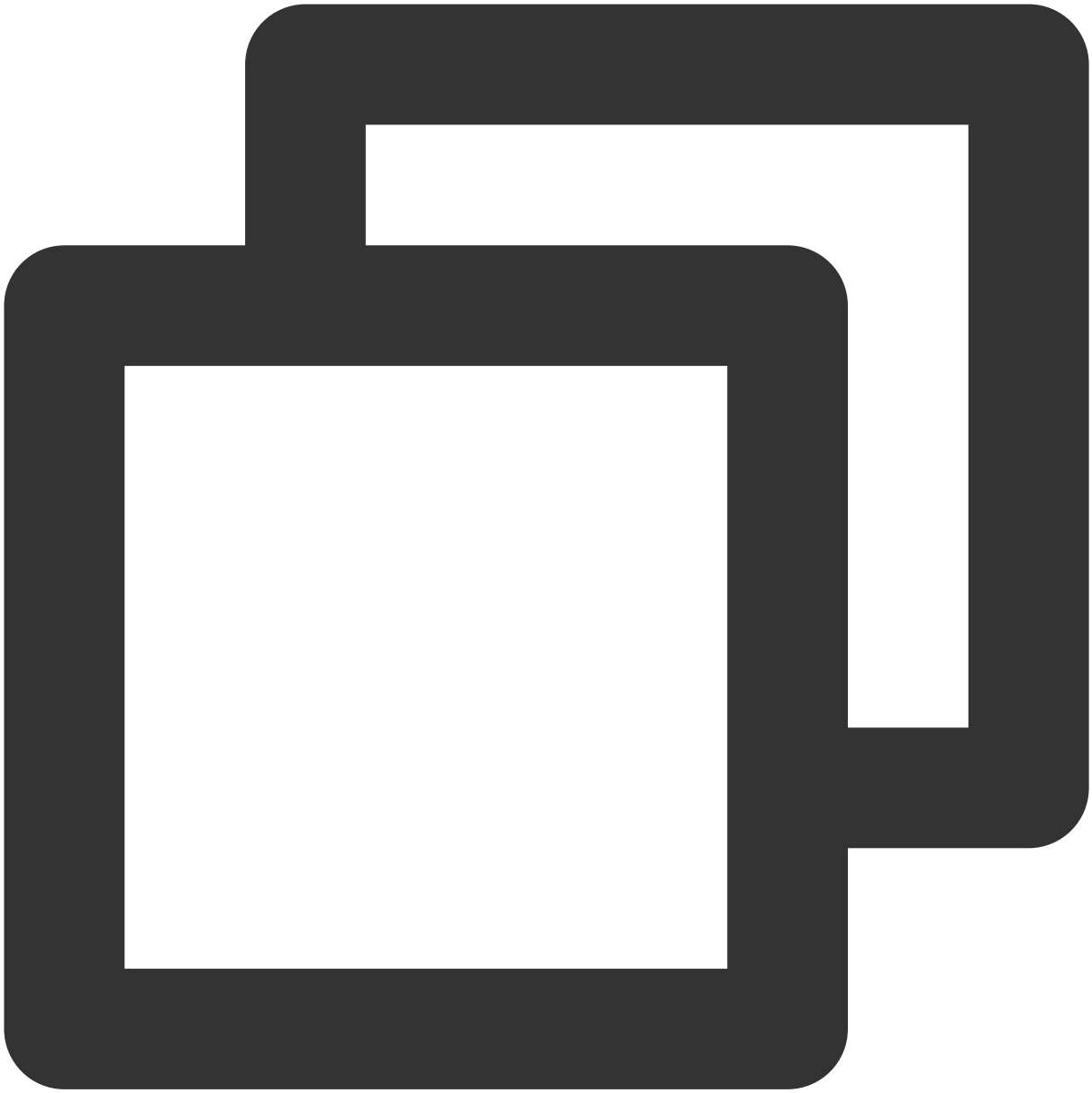
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: close
Date: Thu, 28 May 2020 08:44:41 GMT
Server: tencent-cos
x-cos-request-id: NWVjZjc5ZjlfOGJjOTJhMDlfNzJmYV8xOTcy****
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
```

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```
<InitiateMultipartUploadResult>
            <Bucket>examplebucket-1250000000</Bucket>
            <Key>exampleobject</Key>
            <UploadId>15906554815fb0c8bda2edae20d895ad7452e949bf51541b31ca14a029fb6
</InitiateMultipartUploadResult>
```

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Upload Part

Last updated：2024-06-12 15:10:38

Overview

This API is used to upload an object to COS in multiple parts. You can upload up to 10,000 parts. The size of each part should be 1 MB to 5 GB, and the last part can be smaller than 1 MB.

Note:

Multipart upload steps:

1.1 To call this API, you need to first call the Initiate Multipart Upload API to obtain the `UploadId`, which identifies the current upload operation.

1.2 Every time you call the `Upload Part` API, you need to include the `partNumber` and `uploadId` parameters. You can upload multiple parts out of order.

1.3 When the `uploadId` and `partNumber` of a new part are the same as those of a previously uploaded part, the old part will be overwritten. If the `uploadId` does not exist, "404 NoSuchUpload" will be returned.

Only the root account or sub-accounts granted the permission of the `Upload Part` API can call this API.

Request

Sample request

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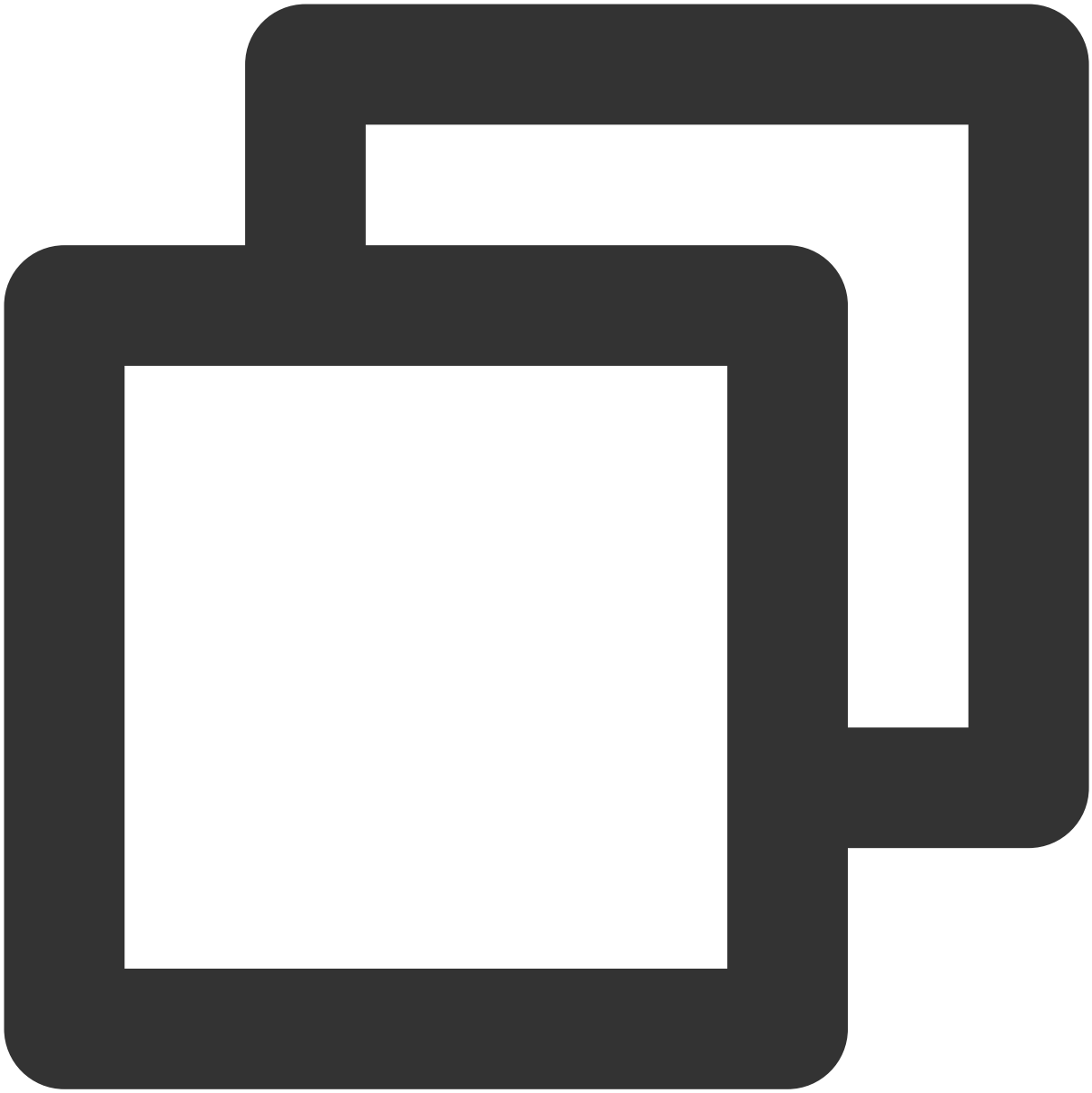

```
PUT /<ObjectKey>?partNumber=PartNumber&uploadId=UploadId HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: Content Type
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String

[Object Part]
```

Note:

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Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).
Authorization: Auth String (See Request Signature for details.)

Request parameters

Parameter	Description	Type	Required
partNumber	Part number. Value range: 1–10000	integer	Yes
uploadId	Multipart upload ID obtained from the `Initiate Multipart Upload` API	string	Yes

Request headers

In addition to common request headers, this API also supports the following request headers. For more information about common request headers, please see Common Request Headers.

SSE-related headers

If SSE-C is used during the initialization of the current multipart upload, you need to specify the encryption algorithm and key that were specified during the initialization. Otherwise, you cannot specify the following headers.

Field	Description	Type	Required
x-cos-server-side-encryption-customer-algorithm	Server-side encryption algorithm. Currently, only `AES256` is supported.	string	Yes
x-cos-server-side-encryption-customer-key	Base64-encoded server-side encryption key. Example: `MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNERUY=`	string	Yes
x-cos-server-side-encryption-customer-key-MD5	Base64-encoded MD5 checksum of the server-side encryption key. Example: `U5L61r7jcwdNvT7frmUG8g==`	string	Yes
x-cos-traffic-limit	Limits the speed (in bit/s) for the current multipart upload for traffic control. Value range: 819200-838860800 (i.e., 100 KB/s-100 MB/s). If the speed exceeds the limit, a 400 error will be returned.	integer	No

Request body

The request body of this API is the part content of the object (file).

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Response

Response headers

In addition to common response headers, this API also returns the following response headers. For more information about common response headers, please see Common Response Headers.

SSE-related headers

If server-side encryption is used during the initialization of the current multipart upload, this API will return headers used specifically for server-side encryption. For more information, please see Server-Side Encryption Headers.

Response body

The response body of this API is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Example 1: simple use case

Request

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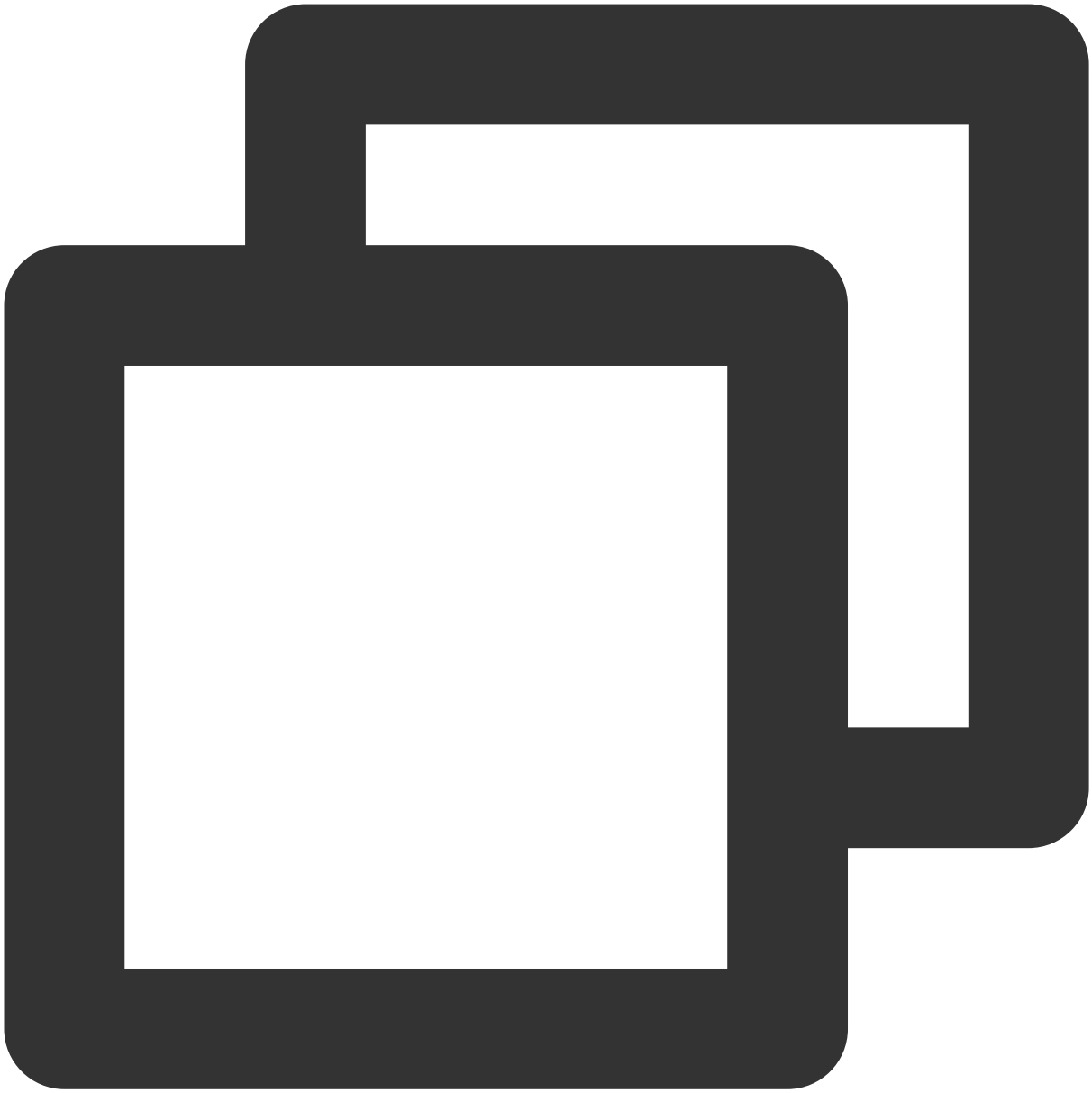

```
PUT /exampleobject?partNumber=1&uploadId=1585130821cbb7df1d11846c073ad648e8f33b087c
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 25 Mar 2020 10:07:14 GMT
Content-Type: application/octet-stream
Content-Length: 1048576
Content-MD5: OScKloo1fSQgfpkRFiUH6w==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

[Object Part]
```

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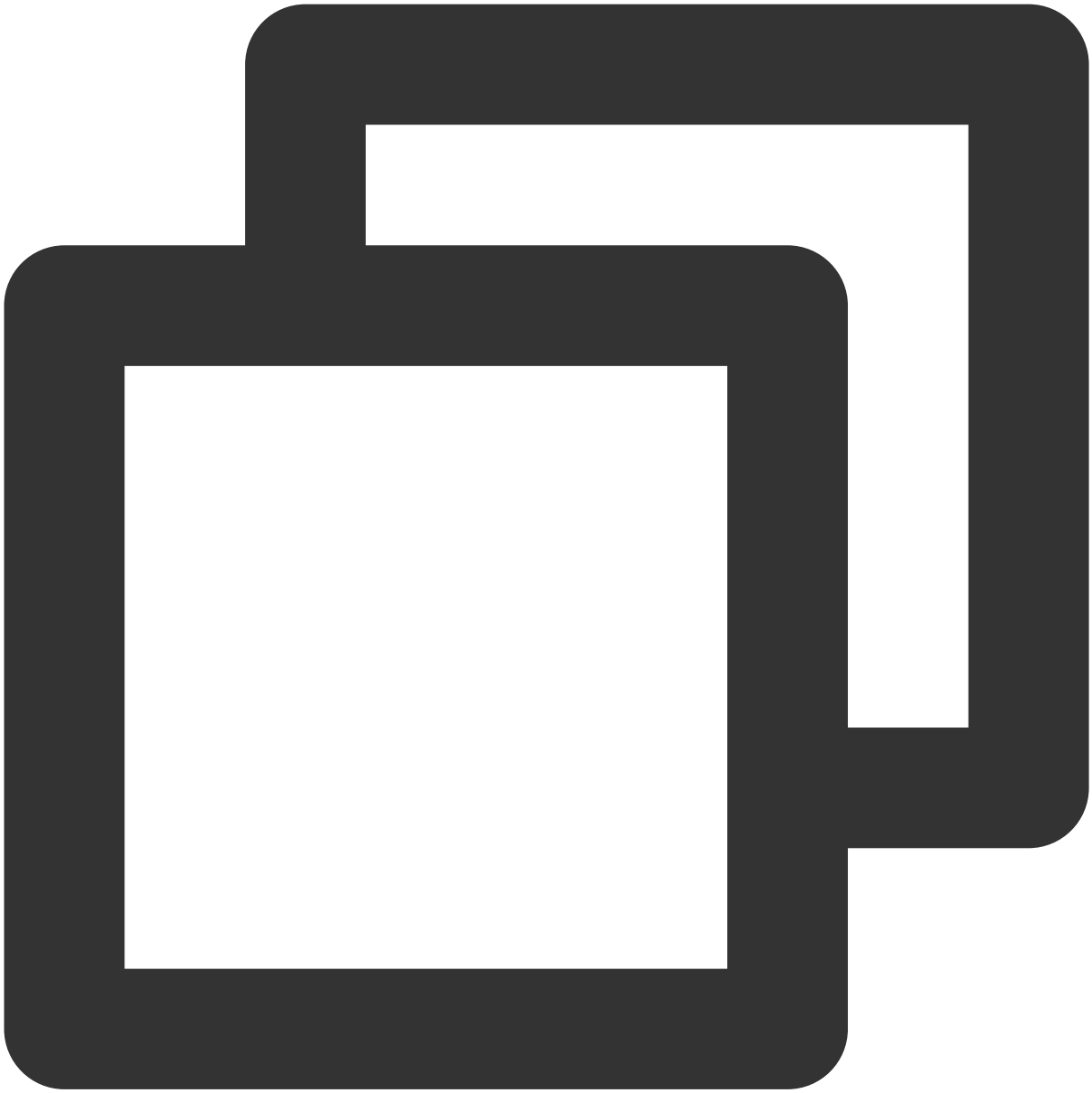
Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Wed, 25 Mar 2020 10:07:14 GMT
ETag: "39270a968a357d24207e9911162507eb"
Server: tencent-cos
x-cos-hash-crc64ecma: 9973912126177188060
x-cos-request-id: NWU3YjJkNTJfZDBjODJhMDlfMjU4NTZfMjc5MzBh****
```

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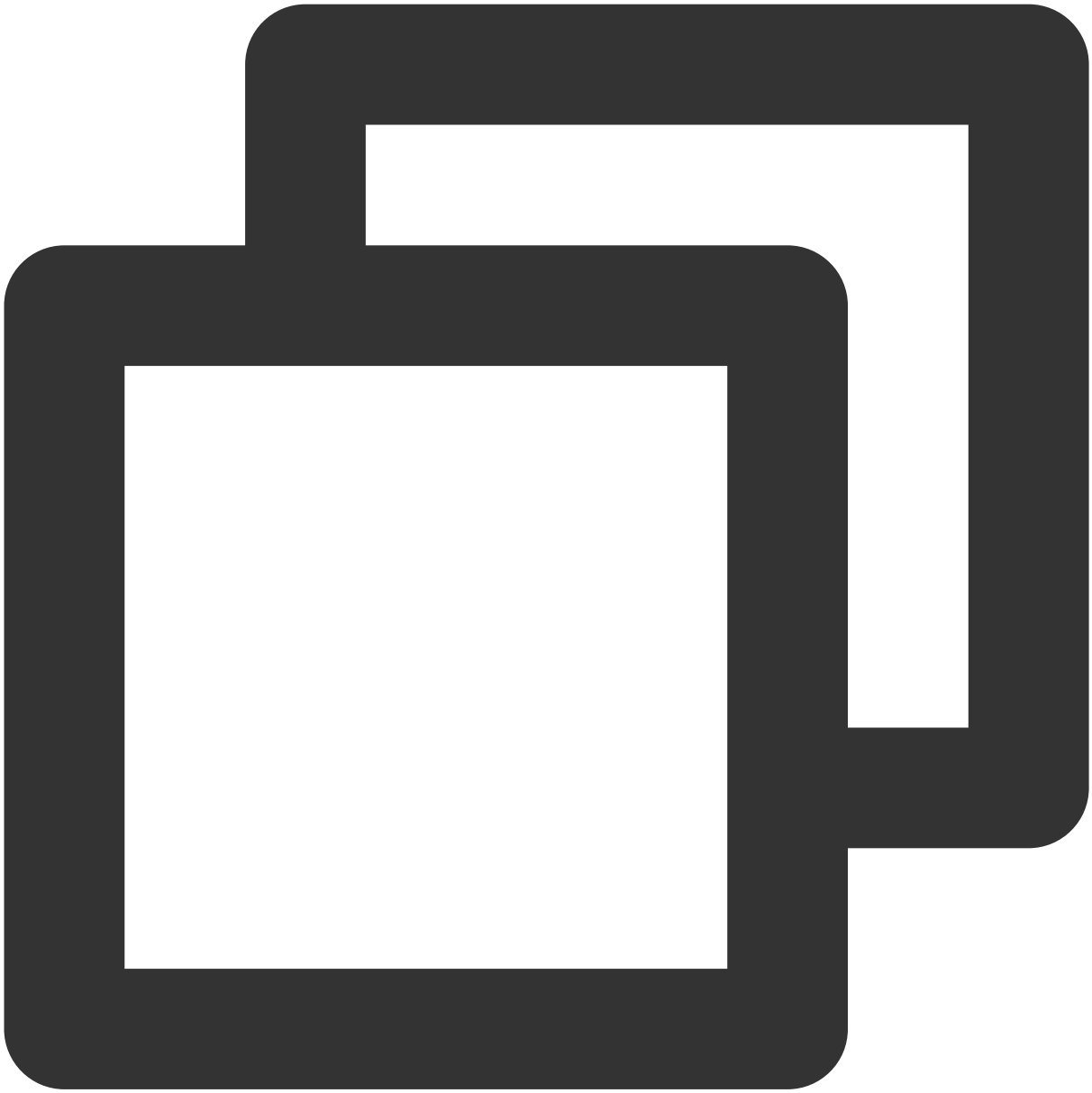
Sample 2: using server-side encryption SSE-COS

Request



```
PUT /exampleobject?partNumber=1&uploadId=159086254025135529 5a5c736513d70d42b92bbde4
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 30 May 2020 18:15:50 GMT
Content-Type: application/octet-stream
Content-Length: 13
Content-MD5: EI9SjrY7Zec08nrjMfX/qg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
```

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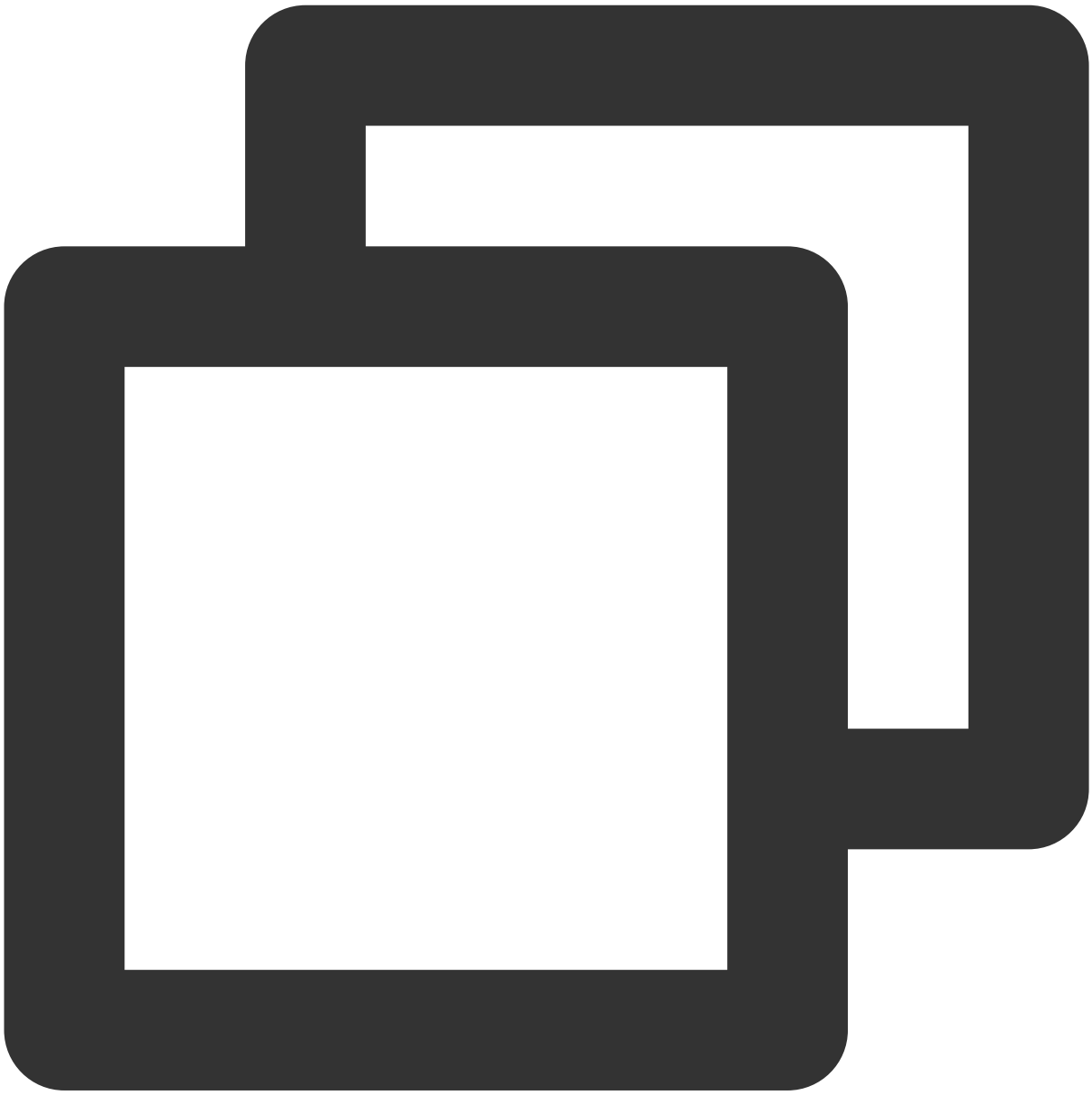
```
Connection: close

[Object Part]
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Sat, 30 May 2020 18:15:51 GMT
ETag: "108f528eb63b65e734f27ae331f5ffaa"
```

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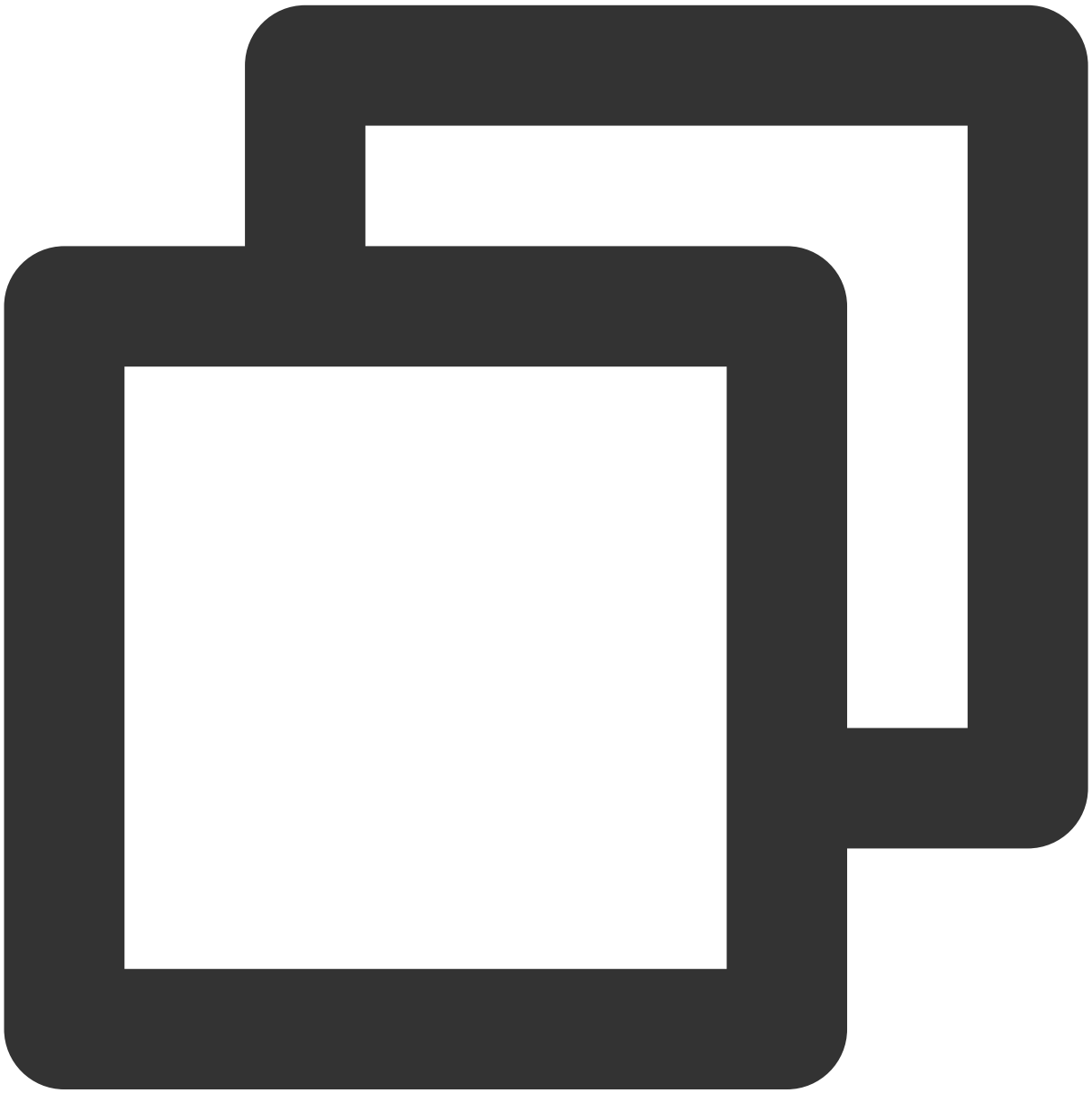
```
Server: tencent-cos
x-cos-hash-crc64ecma: 4510578591875220731
x-cos-request-id: NWVkMmEyZDZfYjNjMjJhMDlfMmJlM18zOWI2****
x-cos-server-side-encryption: AES256
```

Sample 3: using server-side encryption SSE-KMS

Request



```
PUT /exampleobject?partNumber=1&uploadId=15908625793957d71176fa878282d266a95b79dc2a
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
```

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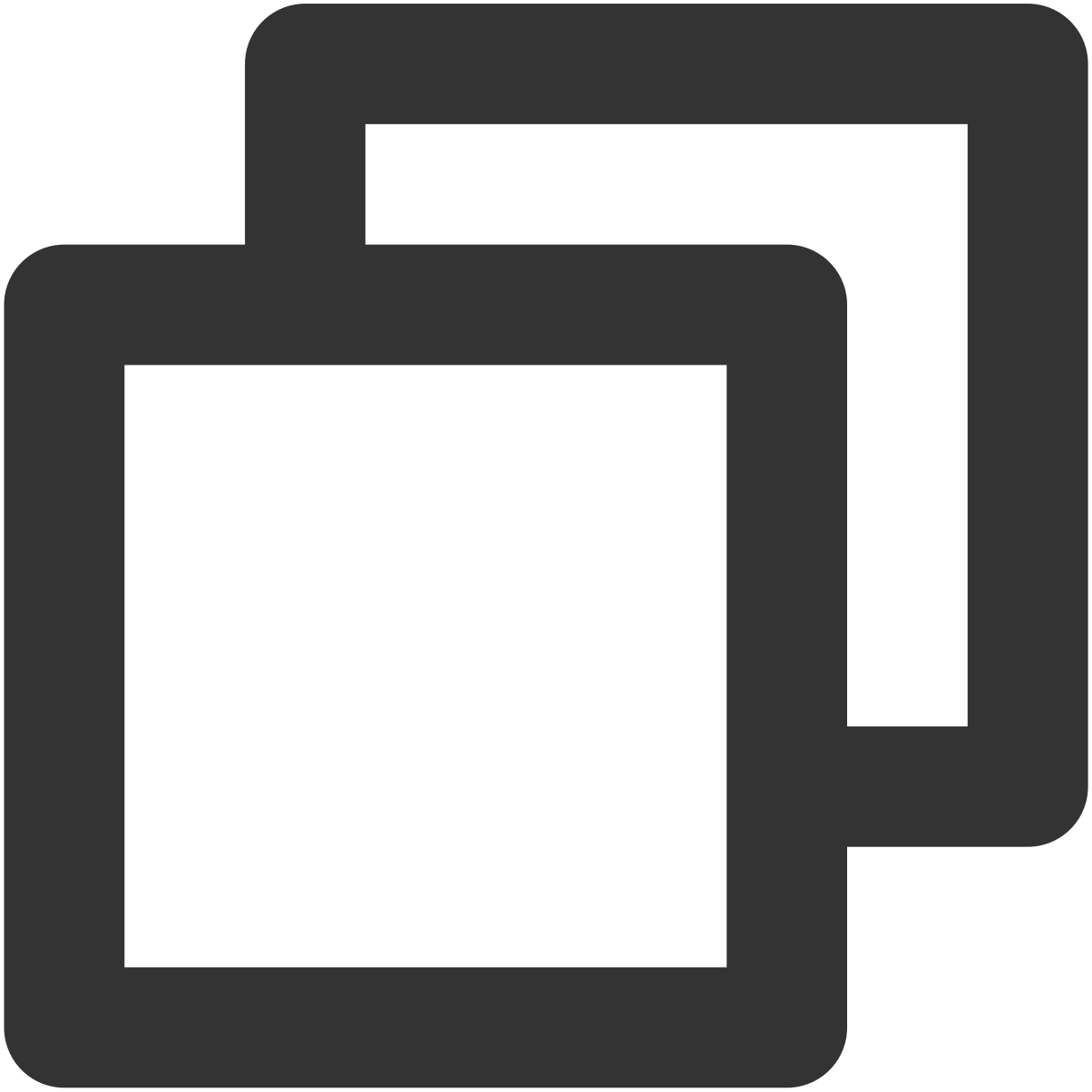
```
Date: Sat, 30 May 2020 18:16:29 GMT
Content-Type: application/octet-stream
Content-Length: 13
Content-MD5: EI9SjrY7Zec08nrjMfX/qg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

[Object Part]
```

Response



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```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Sat, 30 May 2020 18:16:30 GMT
ETag: "1d3e8ae9da423b440341b09f1616f074"
Server: tencent-cos
x-cos-hash-crc64ecma: 4510578591875220731
x-cos-request-id: NWVkMmEyZmRfYTRiOTJhMDlfMTE0ZGRfMmE3OTk4****
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
```

Example 4: using server-side encryption SSE-C

Request

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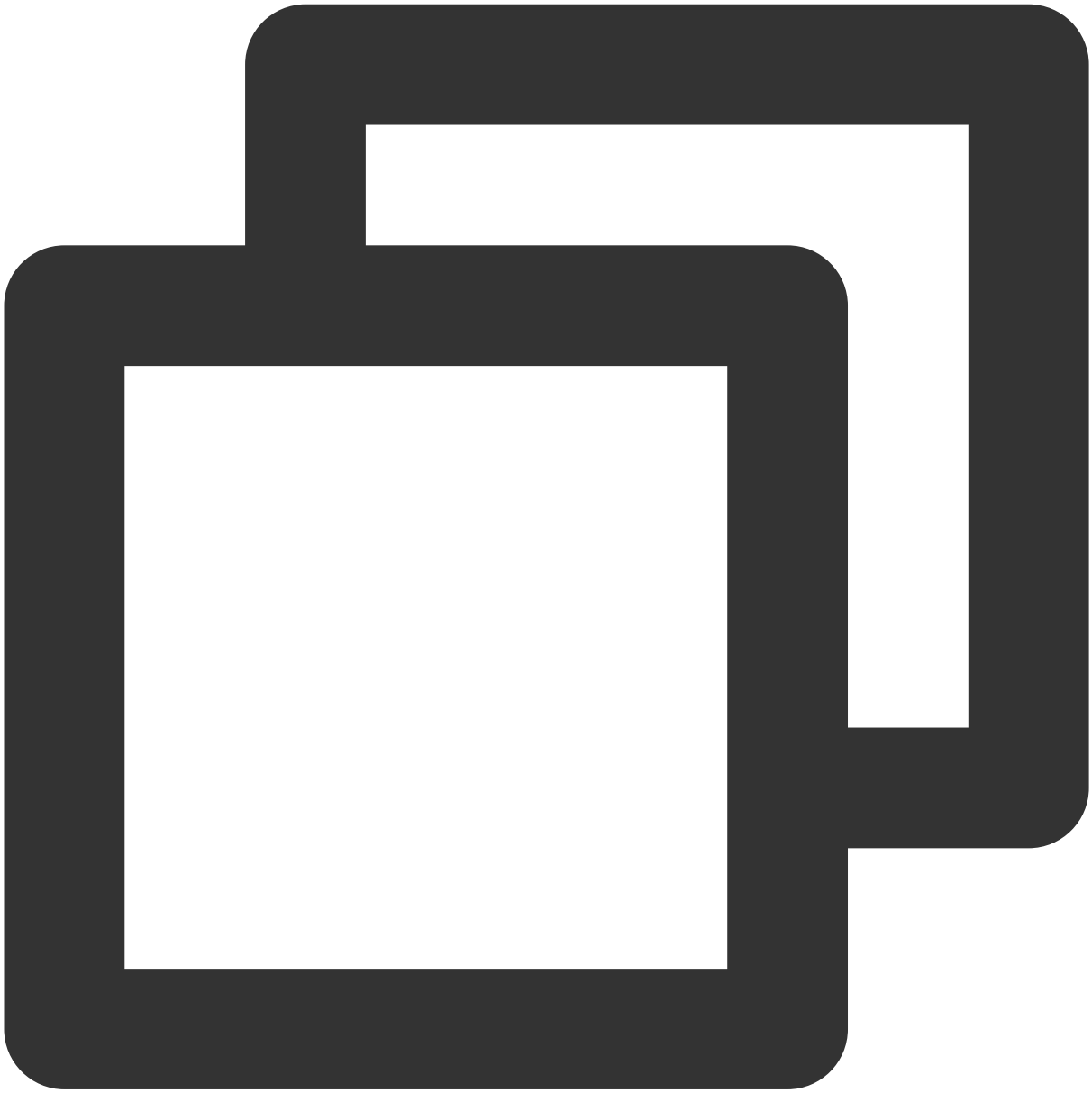

```
PUT /exampleobject?partNumber=1&uploadId=1590862610acd643927bad05cd3947bf98b56b04b0
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 30 May 2020 18:17:01 GMT
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key: MDEyMzQ1Njc4OUFCQ0RFRjAxMjM0NTY3ODlBQkNE
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
Content-Type: application/octet-stream
Content-Length: 13
Content-MD5: EI9SjrY7Zec08nrjMfX/qg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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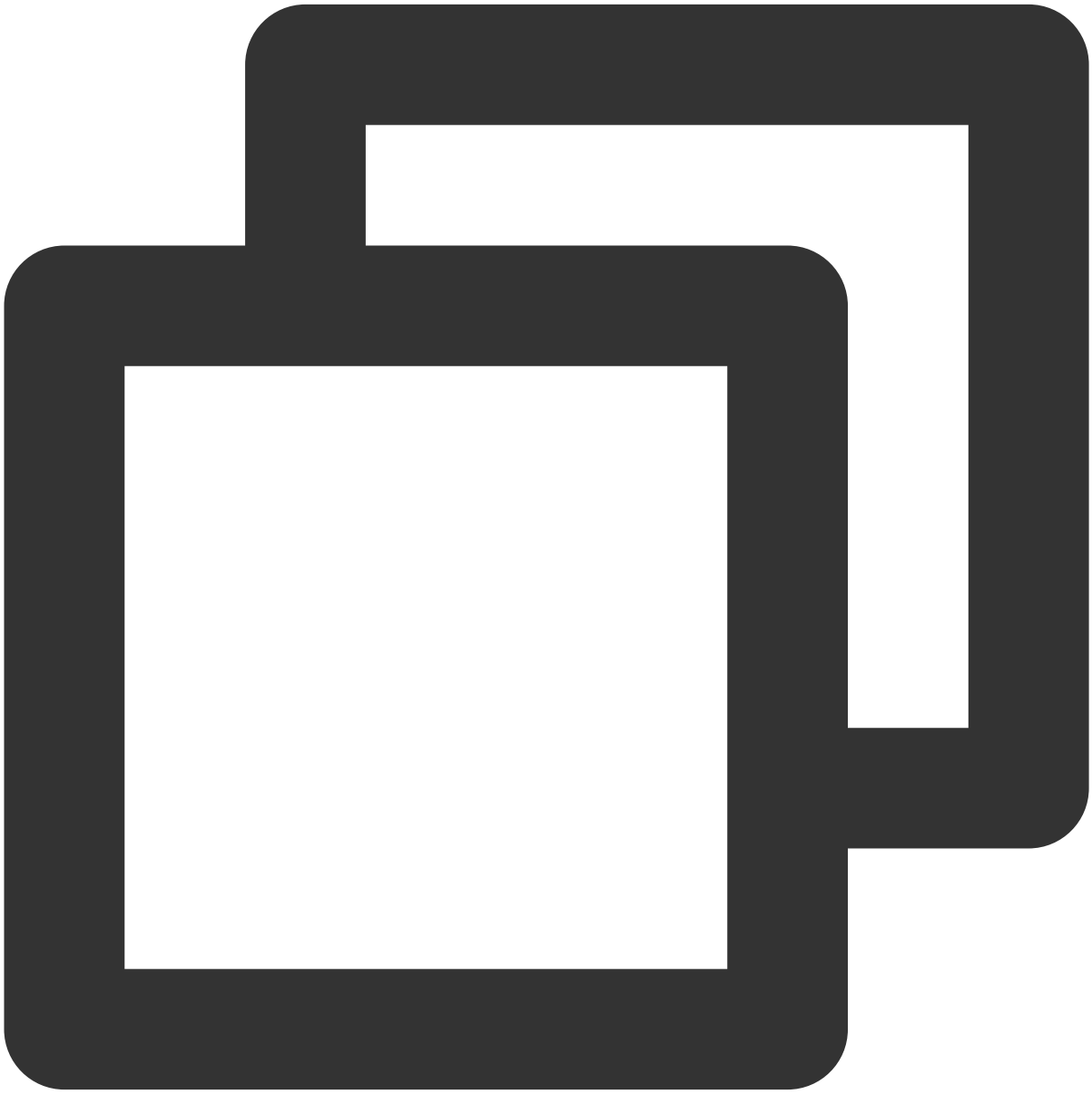
```
[Object Part]
```

Response



```
HTTP/1.1 200 OK
Content-Length: 0
Connection: close
Date: Sat, 30 May 2020 18:17:01 GMT
ETag: "ff14981a35a58eb97bca838b055c573b"
Server: tencent-cos
```

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```
x-cos-hash-crc64ecma: 4510578591875220731
x-cos-request-id: NWVkMmEzMWRfYjRjOTJhMDlfYWRhXzFhZmYw****
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==
```

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Upload Part - Copy

Last updated：2024-06-12 15:10:38

Overview

This API is used to copy the parts of an object from the source path to the destination path. You can use `x-cos-copy-source` to specify the source object and use `x-cos-copy-source-range` to specify the byte range to copy (each part should be 1 MB to 5 GB).

Note:

The following two types of accounts can call this API:

Have the root account permissions.

Have the `GetObjecet` API permission of the source object and the `InitiateMultipartUpload`, `ListMultipartUploads`, `ListParts`, `PutObject`, `CompleteMultipartUpload`, and `AbortMultipartUpload` API permissions under the destination path.

Note:

To call this API, you need to first call the Initiate Multipart Upload API to initialize the multipart upload and specify the destination path.

If the source and destination objects reside in two different regions and the part size is larger than 5 GB, use the multipart upload or multipart copy API to copy the object.

To upload an object in parts, you must first initialize the multipart upload. The response of the multipart upload initialization will include a unique descriptor `uploadId`, which needs to be carried in the multipart upload request.

Versioning

If versioning is enabled for the bucket, `x-cos-copy-source` identifies the current version of the object to copy. If the current version is a delete marker and no version is specified in `x-cos-copy-source`, COS will consider that the object has been deleted and return a 404 error. If you specify a `versionId` in `x-cos-copy-source` and the `versionId` is a delete marker, COS will return an HTTP 400 error as delete markers cannot be set in `x-cos-copy-source`.

Request

Sample request

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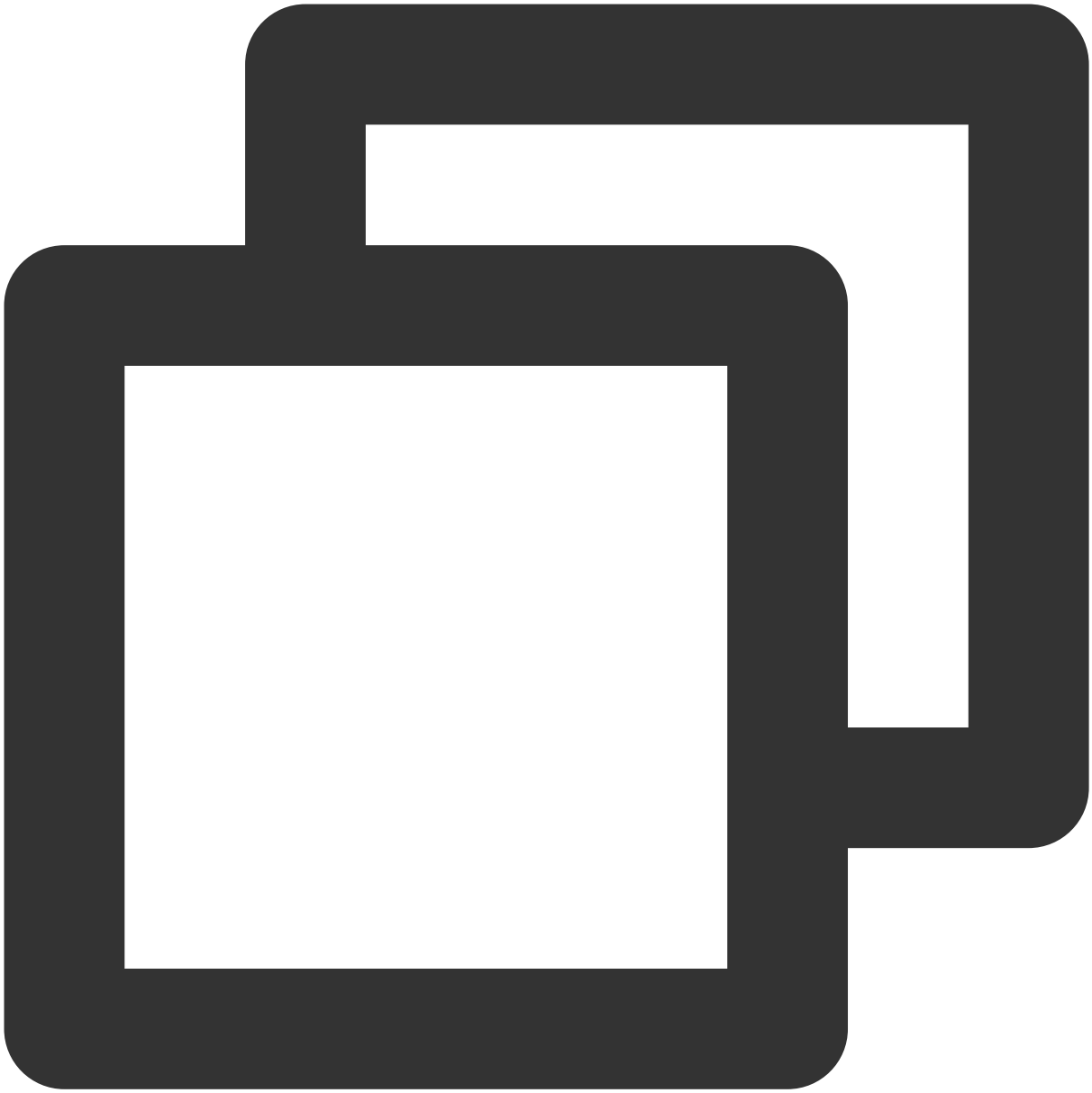

```
PUT /<ObjectKey>?partNumber=PartNumber&uploadId=UploadId  HTTP/1.1
Host: <Bucketname-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
x-cos-copy-source: <Bucketname>-<APPID>.cos.<Region>.myqcloud.com/filepath
x-cos-copy-source-range: bytes=first-last
x-cos-copy-source-if-match: etag
x-cos-copy-source-if-none-match : etag
x-cos-copy-source-if-unmodified-since: time_stamp
x-cos-copy-source-if-modified-since: time_stamp
```

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Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

Authorization: Auth String (See Request Signature for details.)

Request headers

Common request headers

This API uses Common Request Headers.

Non-common request headers

Required headers

This API uses the following required header:

Header	Description	Type	Required
x-cos-copy-source	URL of the source object. You can use `versionid` to specify the `versionId` of the object.	String	Yes

Recommended headers

This API uses the following recommended headers:

Header	Description	Type	Required
x-cos-copy-source-range	Byte range of the source object. The range value must be in the format of `bytes=first-last`, where both `first` and `last` are offsets starting from 0. For example, `bytes=0-9` means that you want to copy the first 10 bytes of data of the source object. If this parameter is not specified, the entire object will be copied.	String	No
x-cos-copy-source-If-Modified-Since	If the object is modified after the specified time, the operation will be performed; otherwise, 412 will be returned. This parameter can be used together with `x-cos-copy-source-If-None-Match`. If it is used together with other conditions, a conflict will be returned.	String	No
x-cos-copy-source-If-	If the object is not modified after the specified time,	String	No

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Unmodified-Since	the operation will be performed; otherwise, 412 will be returned. This parameter can be used together with `x-cos-copy-source-If-Match`. If it is used together with other conditions, a conflict will be returned.		
x-cos-copy-source-If-Match	If the `ETag` of the object is the same as the specified one, the operation will be performed; otherwise, 412 will be returned. This parameter can be used together with `x-cos-copy-source-If-Unmodified-Since`. If it is used together with other conditions, a conflict will be returned.	String	No
x-cos-copy-source-If-None-Match	If the `ETag` of the object is different from the specified one, the operation will be performed; otherwise, 412 will be returned. This parameter can be used together with `x-cos-copy-source-If-Modified-Since`. If it is used together with other conditions, a conflict will be returned.	string	No

Request parameters

Parameter	Description	Type	Required
partNumber	Part number	String	Yes
uploadId	To upload an object in parts, you must first initialize the multipart upload. The response of the multipart upload initialization will carry a unique descriptor (`uploadId`), which needs to be carried in the multipart upload request.	String	Yes

Request body

The request body of this request is empty.

Response

Response headers

Common response headers

This API uses Common Response Headers.

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Non-common response headers

Header	Description	Type
x-cos-copy-source-version-id	Version ID of the source object to copy (if versioning is enabled for the source bucket)	String
x-cos-server-side-encryption	If the object is stored with COS-managed server-side encryption, the response will contain this header and the encryption algorithm used (AES256).	String

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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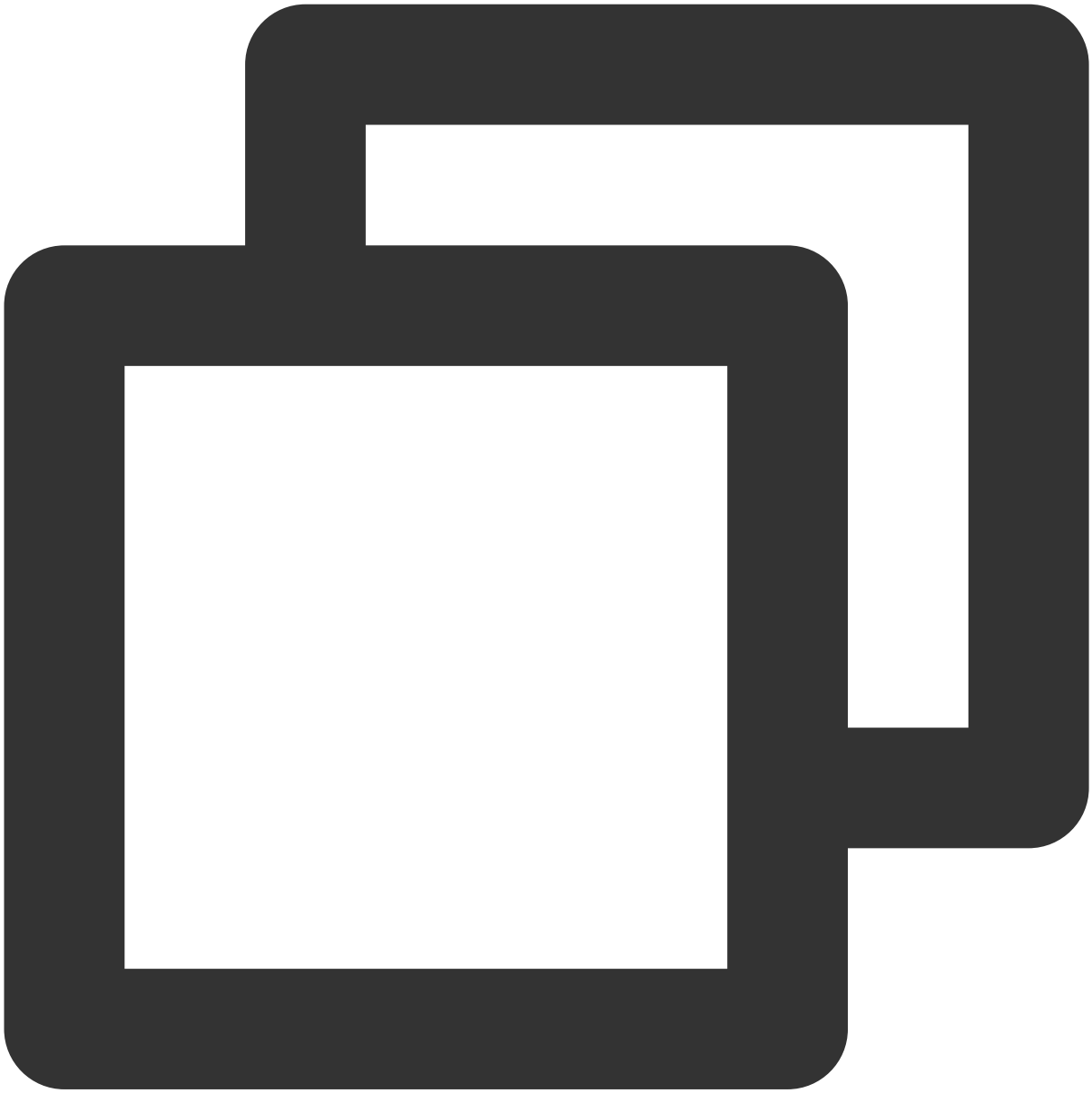

```
<?xml version="1.0" encoding="UTF-8" ?>
<CopyPartResult>
   <ETag>"ba82b57cfdfda8bd17ad4e5879ebb4fe"</ETag>
   <LastModified>2017-09-04T04:45:45</LastModified>
</CopyPartResult>
```

The nodes are described as follows:

Parameter	Description	Type
CopyPartResult	Results of the copy	String

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ETag	MD5 checksum of the object. `ETag` can be used to check whether the object content has changed.	String
LastModified	Last modified time of the object, in GMT format	String

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Request

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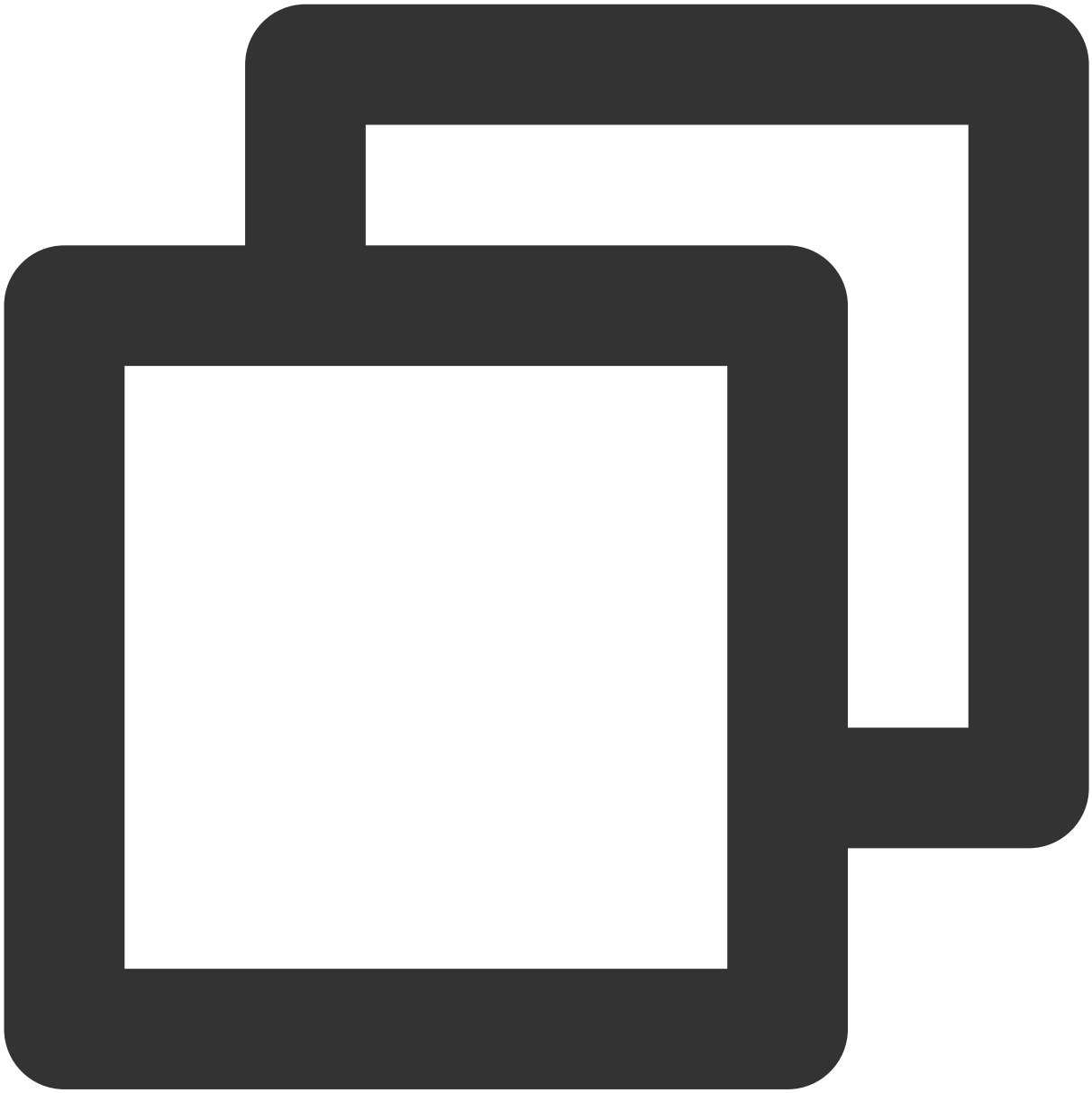

```
PUT /exampleobject?partNumber=1&uploadId=1505706248ca8373f8a5cd52cb129f4bcf85e11dc8
User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7 NSS/3.13.1.0 zlib/
Accept: */*
x-cos-copy-source:examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/exampleobje
x-cos-copy-source-range: bytes=10-100
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
Authorization:q-sign-algorithm=sha1&q-ak=AKIDDNMEycgLRPI2axw9xa2Hhx87wZ3M****&q-sig
```

Response

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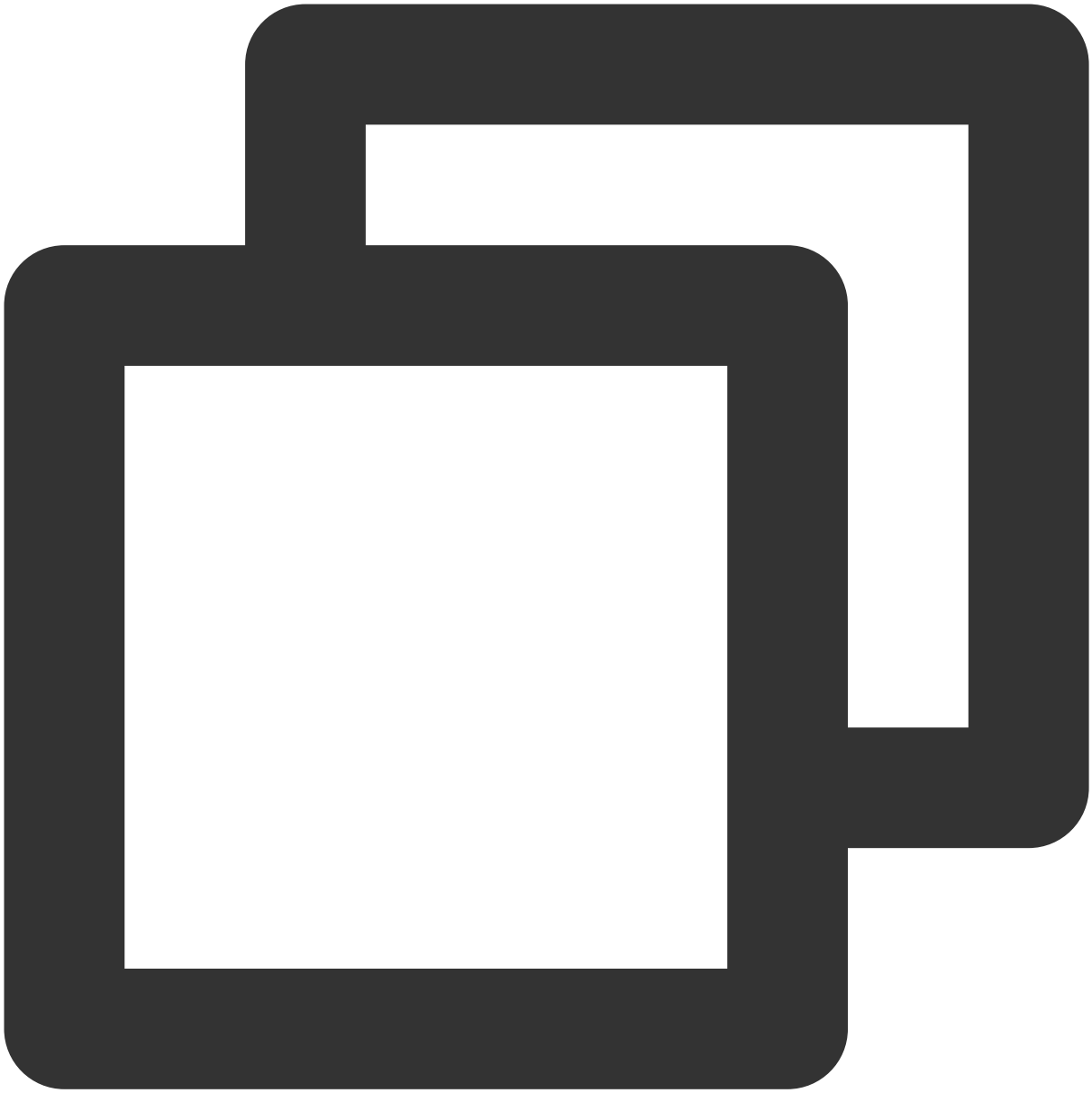

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 133
Connection: keep-alive
Date: Mon, 04 Sep 2017 04:45:45 GMT
Server: tencent-cos
x-cos-request-id: NTlkYjFjYWJfMjQ4OGY3MGFfNGIz****

<CopyPartResult>
   <ETag>"ba82b57cfdfda8bd17ad4e5879ebb4fe"</ETag>
   <LastModified>2017-09-04T04:45:45</LastModified>
```

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```
</CopyPartResult>
```

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Complete Multipart Upload

Last updated：2024-06-12 15:10:38

Overview

This API is used to complete a multipart upload after all parts are uploaded with the `Upload Part` API. When calling this API, you must specify the `PartNumber` and `ETag` of each part in the request body to verify the parts. After all parts are uploaded, it will take several minutes for them to be concatenated. Therefore, when the concatenation starts, COS will immediately return status code 200 and use the `Transfer-Encoding: chunked` response header to return spaces periodically to keep the connection alive until the concatenation is completed. After that, COS will return information about the concatenated object in the last chunk.
If any uploaded part is smaller than 1 MB, "400 EntityTooSmall" will be returned when this API is called.
If the part numbers are not continuous, "400 InvalidPart" will be returned when this API is called.
If the part numbers in the request body are not in ascending order, "400 InvalidPartOrder" will be returned when this API is called.
If the `uploadId` does not exist, `404` (NoSuchUpload) will be returned when this API is called.
Note:
Only the root account or sub-accounts granted the permission of the `Complete Multipart Upload` API can call this API.
Note:
We recommend you either complete or abort a multipart upload as early as possible, as the uploaded parts of an incomplete multipart upload will take up storage capacity and incur storage fees.

Versioning

For a versioning-enabled bucket, COS will automatically generate a unique version ID for the object, and the ID will be returned in the `x-cos-version-id` response header.
For a versioning-suspended bucket, COS will always use `null` as the version ID of the object and will return the `x-cos-version-id: null` response header.

Request

Sample request

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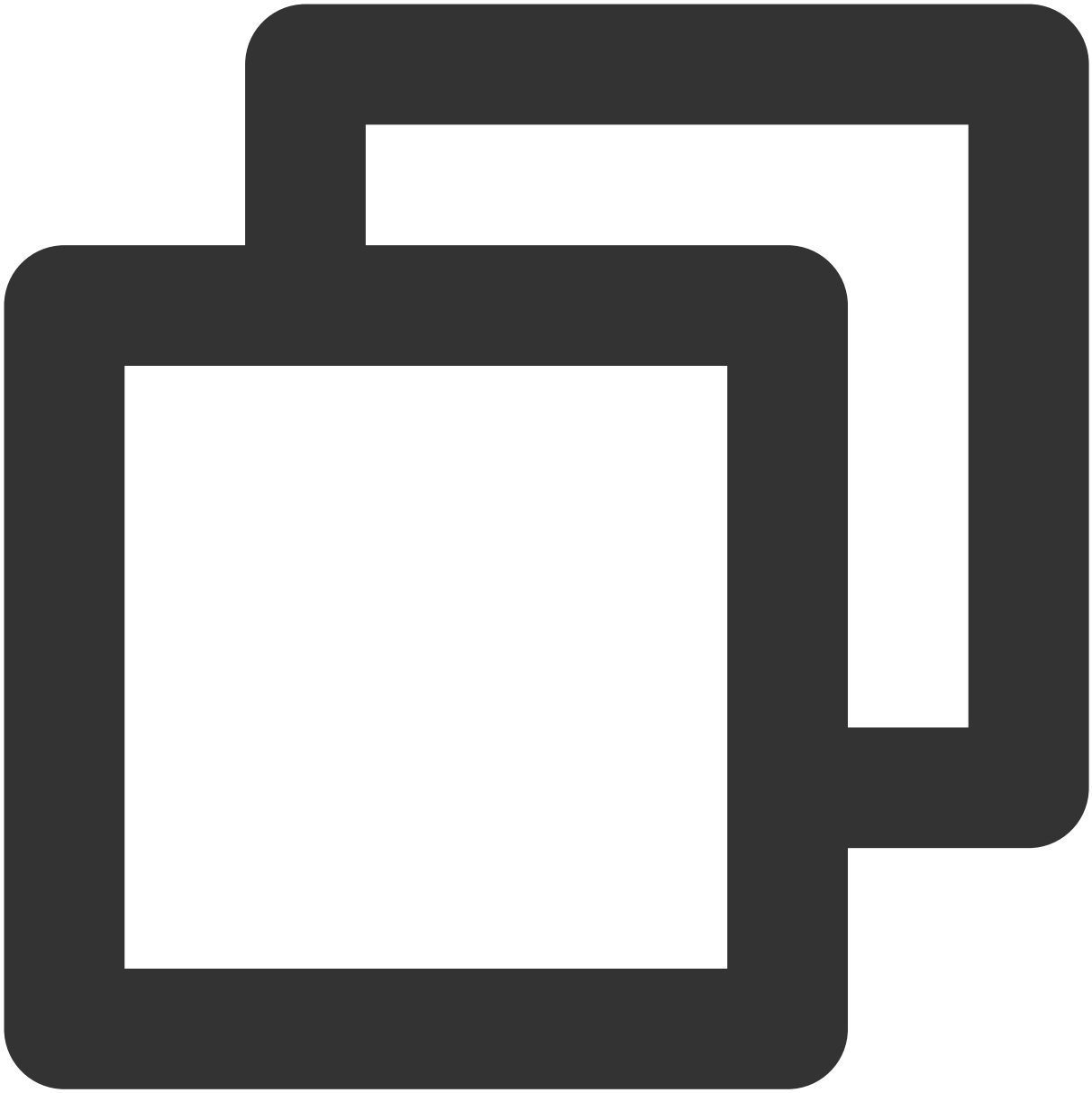

```
POST /<ObjectKey>?uploadId=UploadId HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Content-MD5: MD5
Authorization: Auth String

[Request Body]
```

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Request parameters

Parameter	Description	Type	Required
uploadId	Multipart upload ID obtained from the `Initiate Multipart Upload` API	string	Yes

Request headers

This API only uses Common Request Headers.

Request body

The request body contains **application/xml** data that includes information about all parts.

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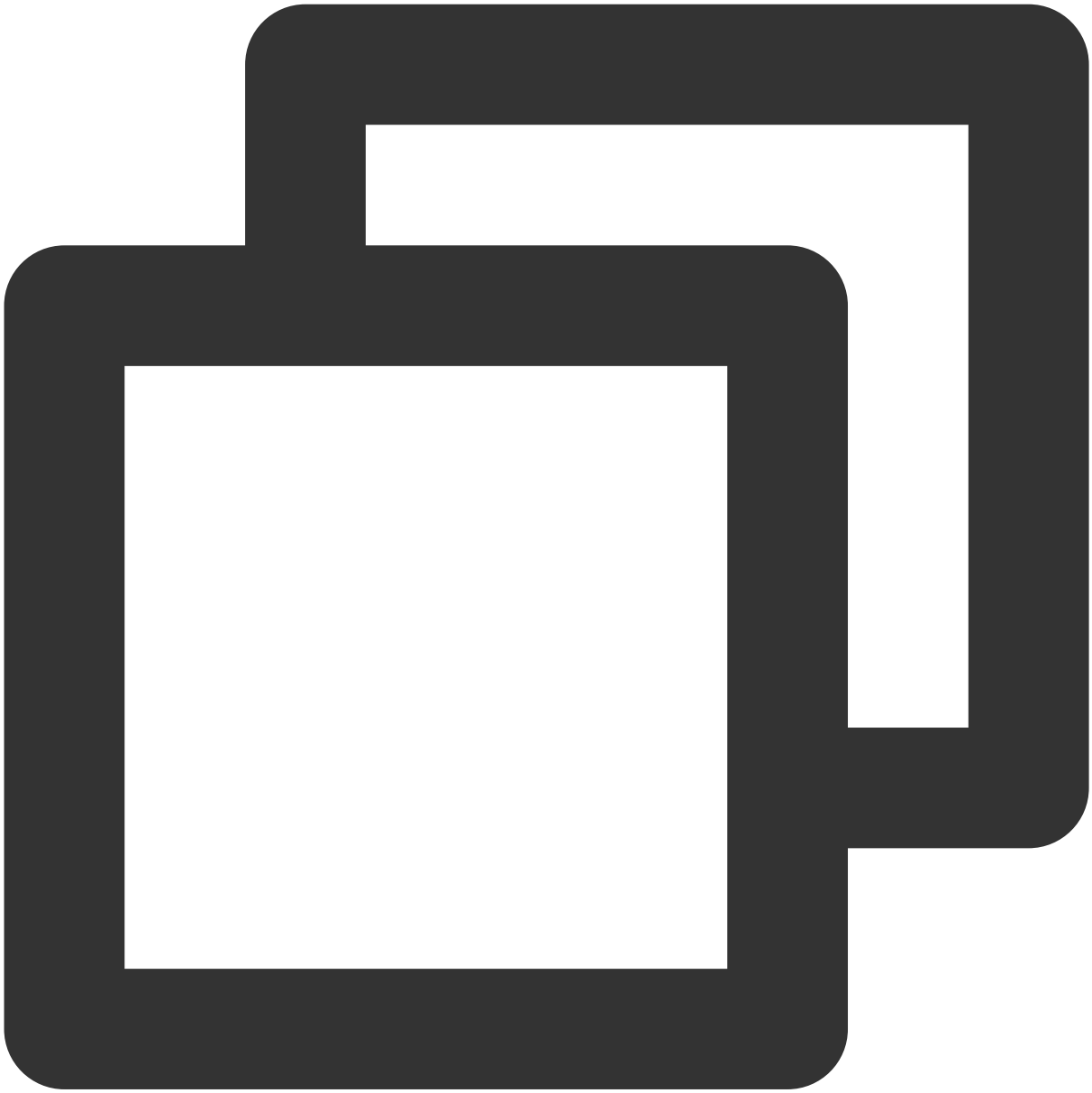

```
<CompleteMultipartUpload>
    <Part>
        <PartNumber>integer</PartNumber>
        <ETag>string</ETag>
    </Part>
    <Part>
        <PartNumber>integer</PartNumber>
        <ETag>string</ETag>
    </Part>
</CompleteMultipartUpload>
```

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The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
CompleteMultipartUpload	None	All request information about `Complete Multipart Upload`	Container	No

Content of `CompleteMultipartUpload` :

Node Name (Keyword)	Parent Node	Description	Type	Required
Part	CompleteMultipartUpload	Information about each part	Container	Yes

Content of `Part` :

Node Name (Keyword)	Parent Node	Description	Type	Required
PartNumber	CompleteMultipartUpload.Part	Part number	integer	Yes
ETag	CompleteMultipartUpload.Part	ETag of the part. The value is obtained from the ETag header in the response to a successful `Upload Part` request.	string	Yes

Response

Response headers

In addition to common response headers, this API also returns the following response headers. For more information about common response headers, please see Common Response Headers.

Versioning-Related Headers

If the object is uploaded to a versioning-enabled bucket, the following response headers will be returned:

Header	Description	Type
x-cos-version-id	Version ID of the object	string

SSE-related headers

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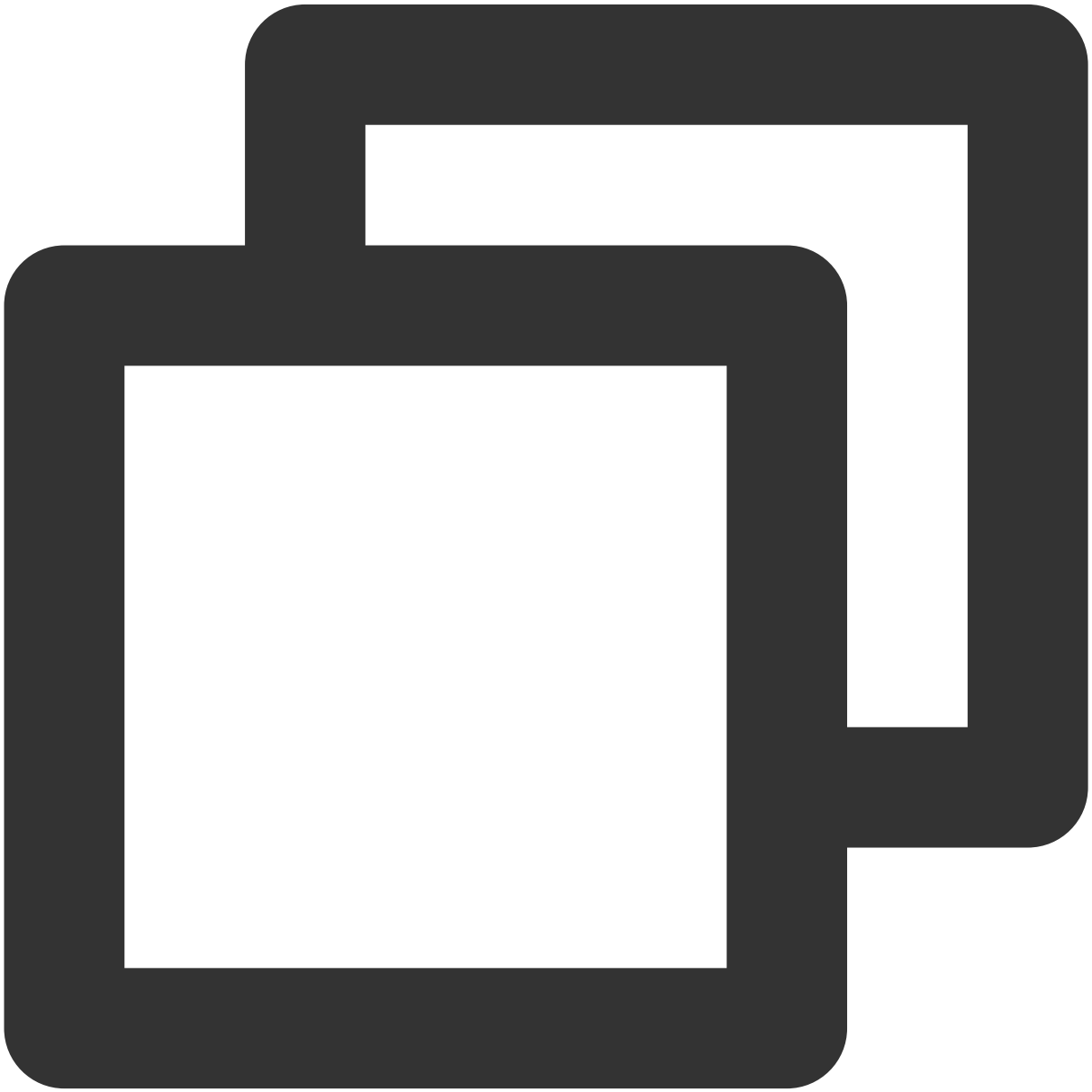
If server-side encryption is used during object upload, this API will return headers used specifically for server-side encryption. For more information, please see Server-Side Encryption Headers.

Response body

If the request is successful, **application/xml** data that includes information about the concatenated object will be returned.



```
<?xml version="1.0" encoding="UTF-8"?>
<CompleteMultipartUploadResult xmlns="http://www.qcloud.com/document/product/436/77
    <Location>string</Location>
```

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```
    <Bucket>string</Bucket>
    <Key>string</Key>
    <ETag>string</ETag>
</CompleteMultipartUploadResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
CompleteMultipartUploadResult	None	Stores the result of `Complete Multipart Upload`	Container

Content of `CompleteMultipartUploadResult`

Node Name (Keyword)	Parent Node	Description	Type
Location	CompleteMultipartUploadResult	Location of the concatenated object, formatted as `http://<BucketName-APPID>.cos.<Region>.myqcloud.com/<ObjectKey>` (for example, `http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleobject`)	string
Bucket	CompleteMultipartUploadResult	Bucket where the concatenated object resides, formatted as `<BucketName-APPID>` (for example, `examplebucket-1250000000`)	string
Key	CompleteMultipartUploadResult	Object key	string
ETag	CompleteMultipartUploadResult	ETag of the concatenated object	string

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

This API uses `Transfer-Encoding: chunked` in the response by default. For readability, samples in this document are displayed without `Transfer-Encoding`. During use, different languages and libraries can automatically process this encoding form. For more information, see the language- and library-related documents.

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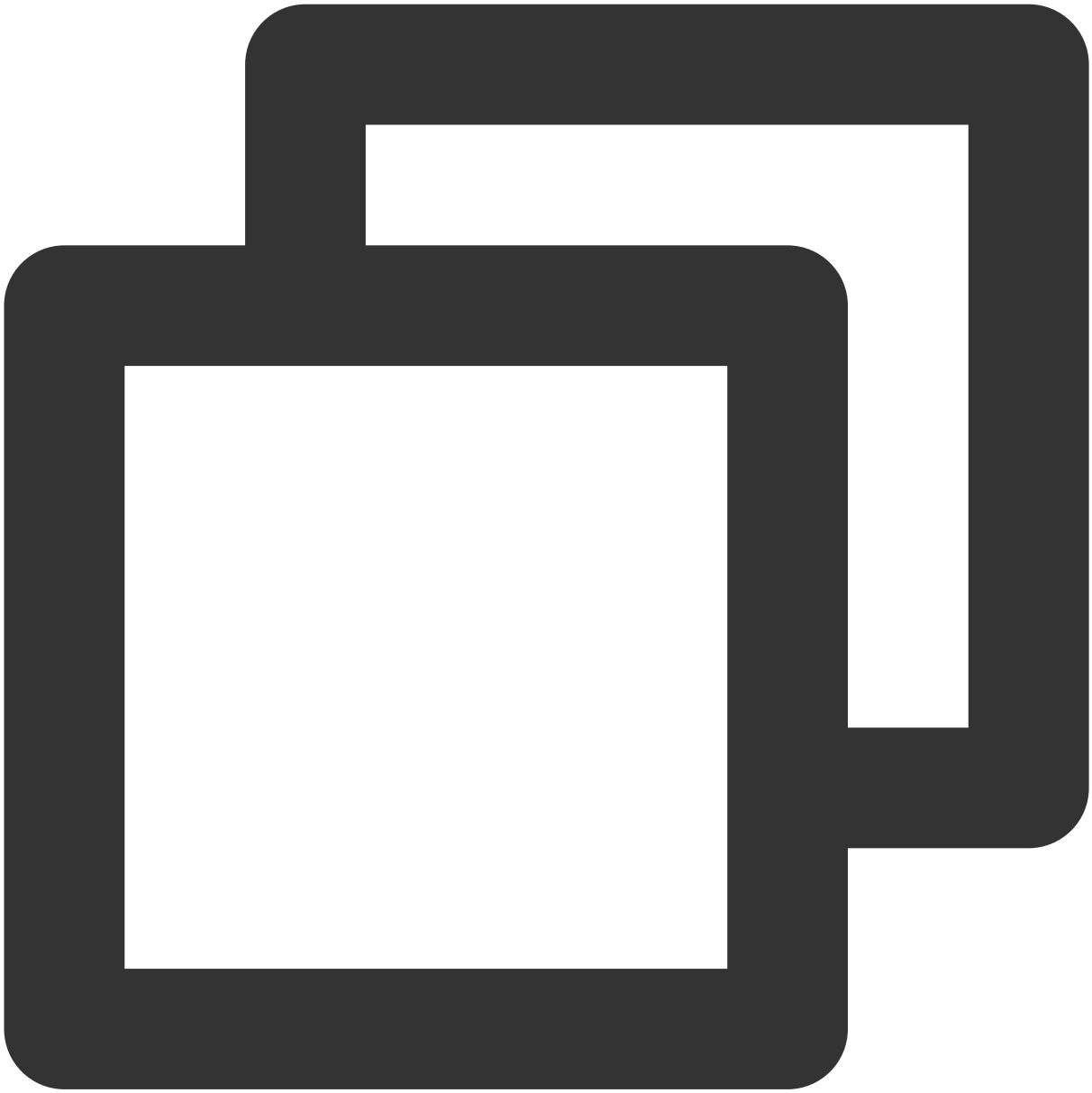
Example 1: simple use case (with versioning disabled)

Request



```
POST /exampleobject?uploadId=1585130821cbb7df1d11846c073ad648e8f33b087cec2381df437a
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 25 Mar 2020 10:07:26 GMT
Content-Type: application/xml
Content-Length: 353
Content-MD5: Me/0Gvtc2x4VPIOhoIRllw==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
```

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```
Connection: close

<CompleteMultipartUpload>
    <Part>
        <PartNumber>1</PartNumber>
        <ETag>"39270a968a357d24207e9911162507eb"</ETag>
    </Part>
    <Part>
        <PartNumber>2</PartNumber>
        <ETag>"d899fbd1e06109ea2e4550f5751c88d6"</ETag>
    </Part>
    <Part>
        <PartNumber>3</PartNumber>
        <ETag>"762890d6c9a871b7bd136037cb2260cd"</ETag>
    </Part>
</CompleteMultipartUpload>
```

Response

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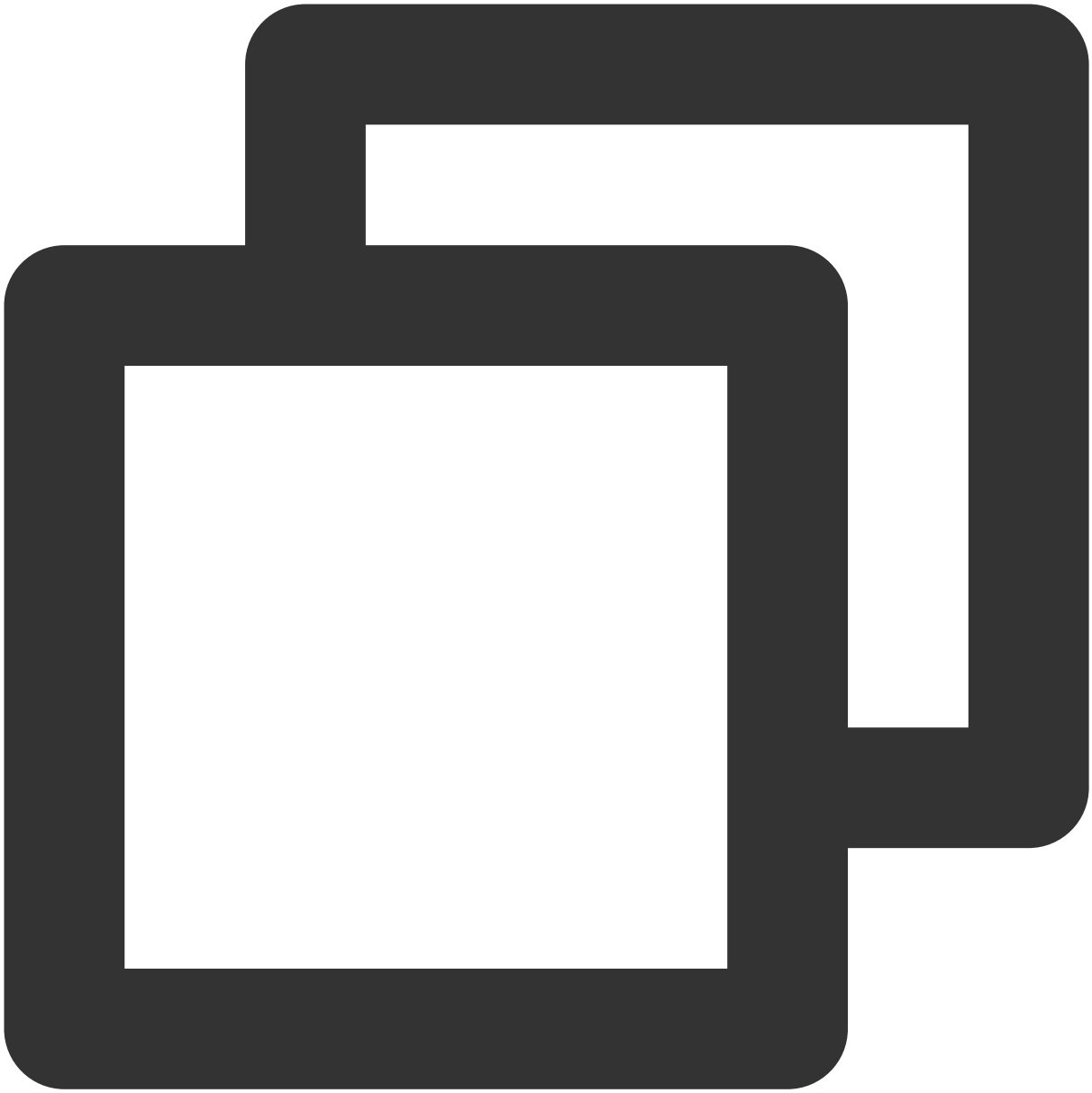

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 378
Connection: close
Date: Wed, 25 Mar 2020 10:07:26 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 2290339086971918696
x-cos-request-id: NWU3YjJkNWVfZDFjODJhMDlfMTk2ODJfMmEyNTA0****

<?xml version="1.0" encoding="UTF-8"?>
<CompleteMultipartUploadResult xmlns="http://www.qcloud.com/document/product/436/77
```

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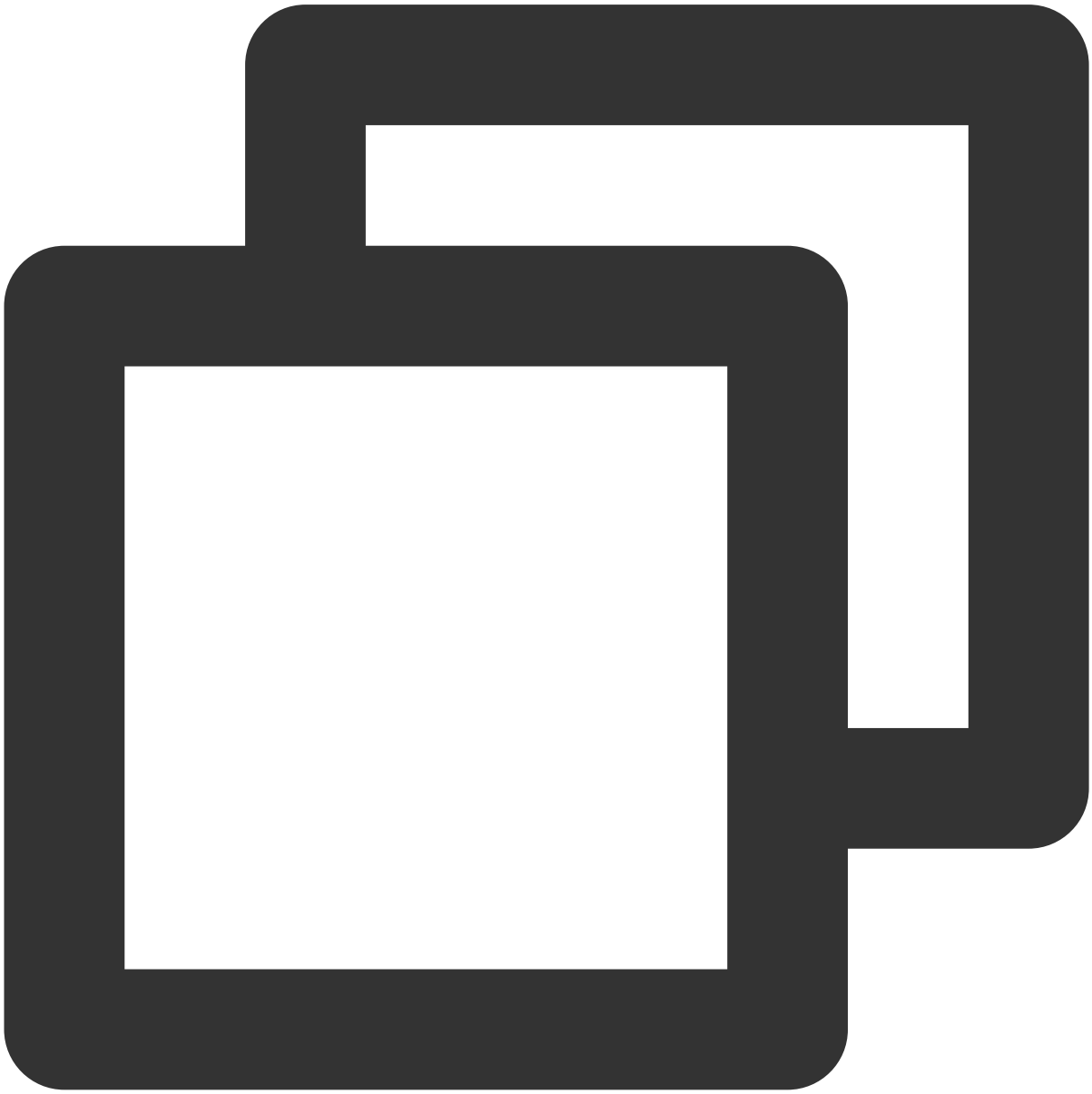
```
    <Location>http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleob
    <Bucket>examplebucket-1250000000</Bucket>
    <Key>exampleobject</Key>
    <ETag>&amp;quot;aa259a62513358f69e98e72e59856d88-3&amp;quot;</ETag>
</CompleteMultipartUploadResult>
```

Sample 2: using server-side encryption SSE-COS

Request



```
POST /exampleobject?uploadId=159086254025135529 5a5c736513d70d42b92bbde4f0fafb5e0ecb
```

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```
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 30 May 2020 18:16:08 GMT
Content-Type: application/xml
Content-Length: 153
Content-MD5: wmpyfdr9s/A+VCBwDdC1bA==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<CompleteMultipartUpload>
    <Part>
        <PartNumber>1</PartNumber>
        <ETag>"108f528eb63b65e734f27ae331f5ffaa"</ETag>
    </Part>
</CompleteMultipartUpload>
```

Response

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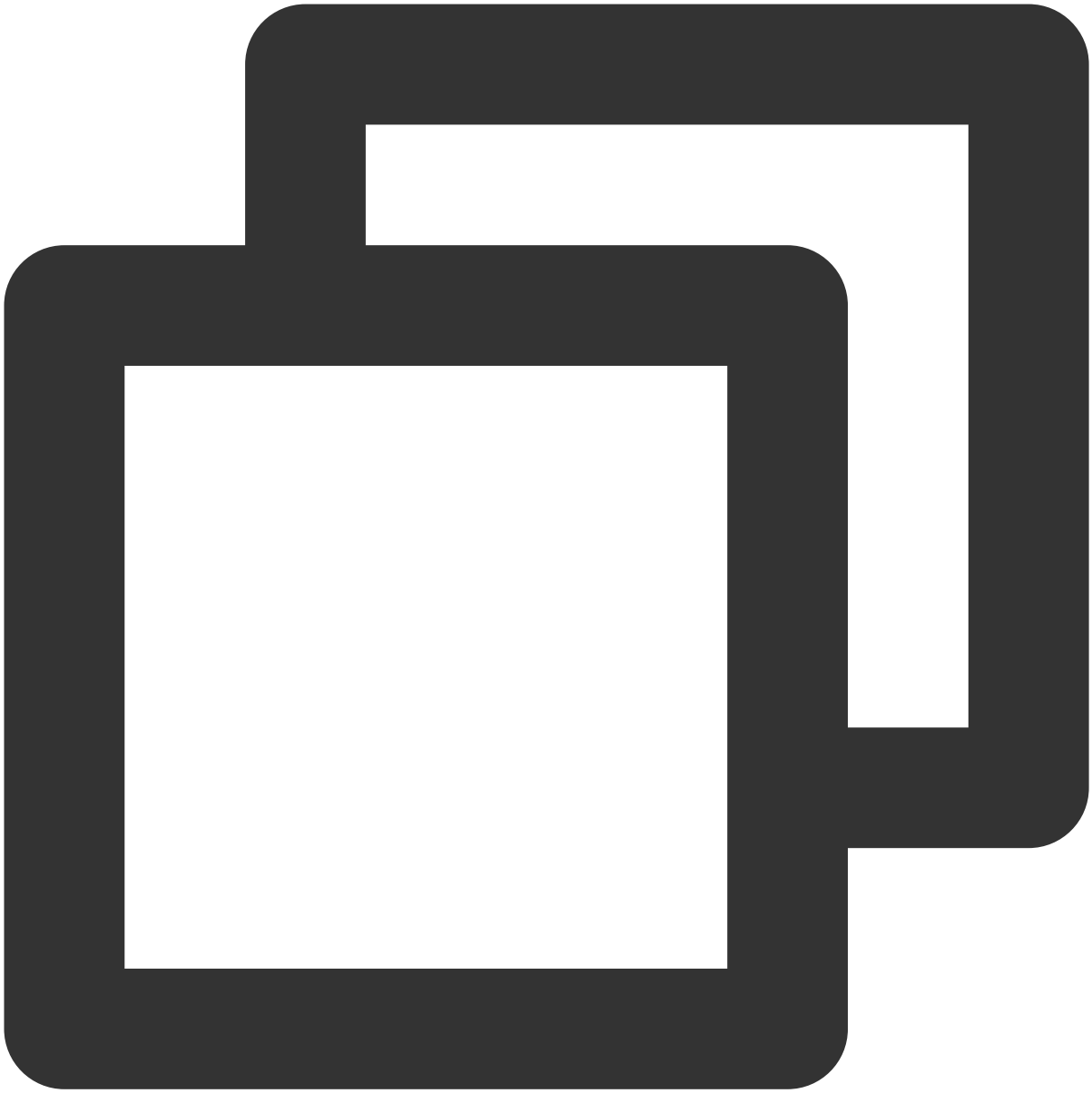

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 378
Connection: close
Date: Sat, 30 May 2020 18:16:08 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 4510578591875220731
x-cos-request-id: NWVkMmEyZThfYTJjMjJhMDlfMmQzOV8zYTM5****
x-cos-server-side-encryption: AES256

<?xml version="1.0" encoding="UTF-8"?>
```

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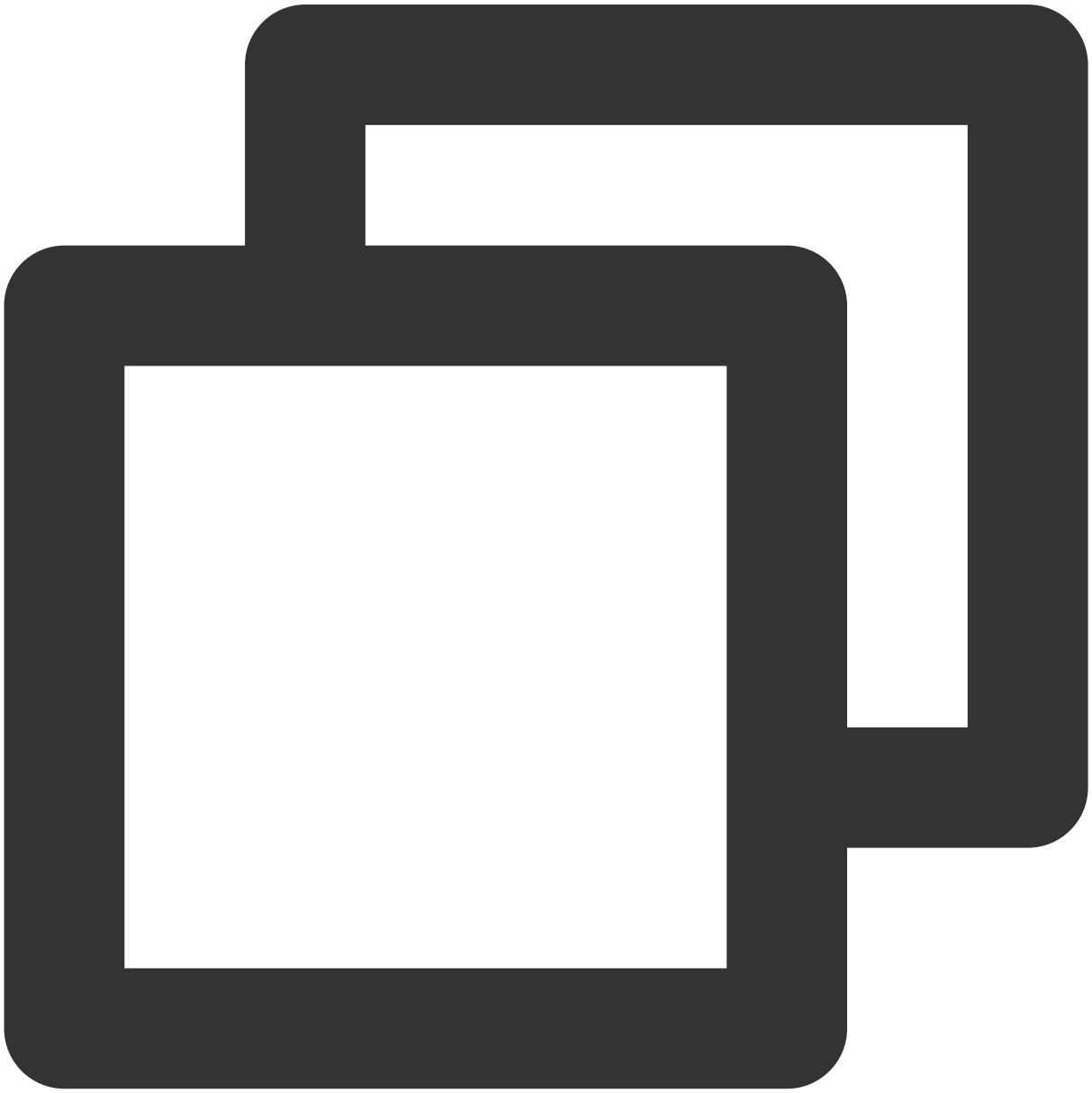
```
<CompleteMultipartUploadResult xmlns="http://www.qcloud.com/document/product/436/77
    <Location>http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleob
    <Bucket>examplebucket-1250000000</Bucket>
    <Key>exampleobject</Key>
    <ETag>&amp;quot;915fca1c3b2737c262458b3a1a43c683-1&amp;quot;</ETag>
</CompleteMultipartUploadResult>
```

Sample 3: using server-side encryption SSE-KMS

Request



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```
POST /exampleobject?uploadId=15908625793957d71176fa878282d266a95b79dc2aec159b4a73d1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 30 May 2020 18:16:40 GMT
Content-Type: application/xml
Content-Length: 153
Content-MD5: jUFgTSZThmPT3qseea0mRQ==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<CompleteMultipartUpload>
    <Part>
        <PartNumber>1</PartNumber>
        <ETag>"1d3e8ae9da423b440341b09f1616f074"</ETag>
    </Part>
</CompleteMultipartUpload>
```

Response

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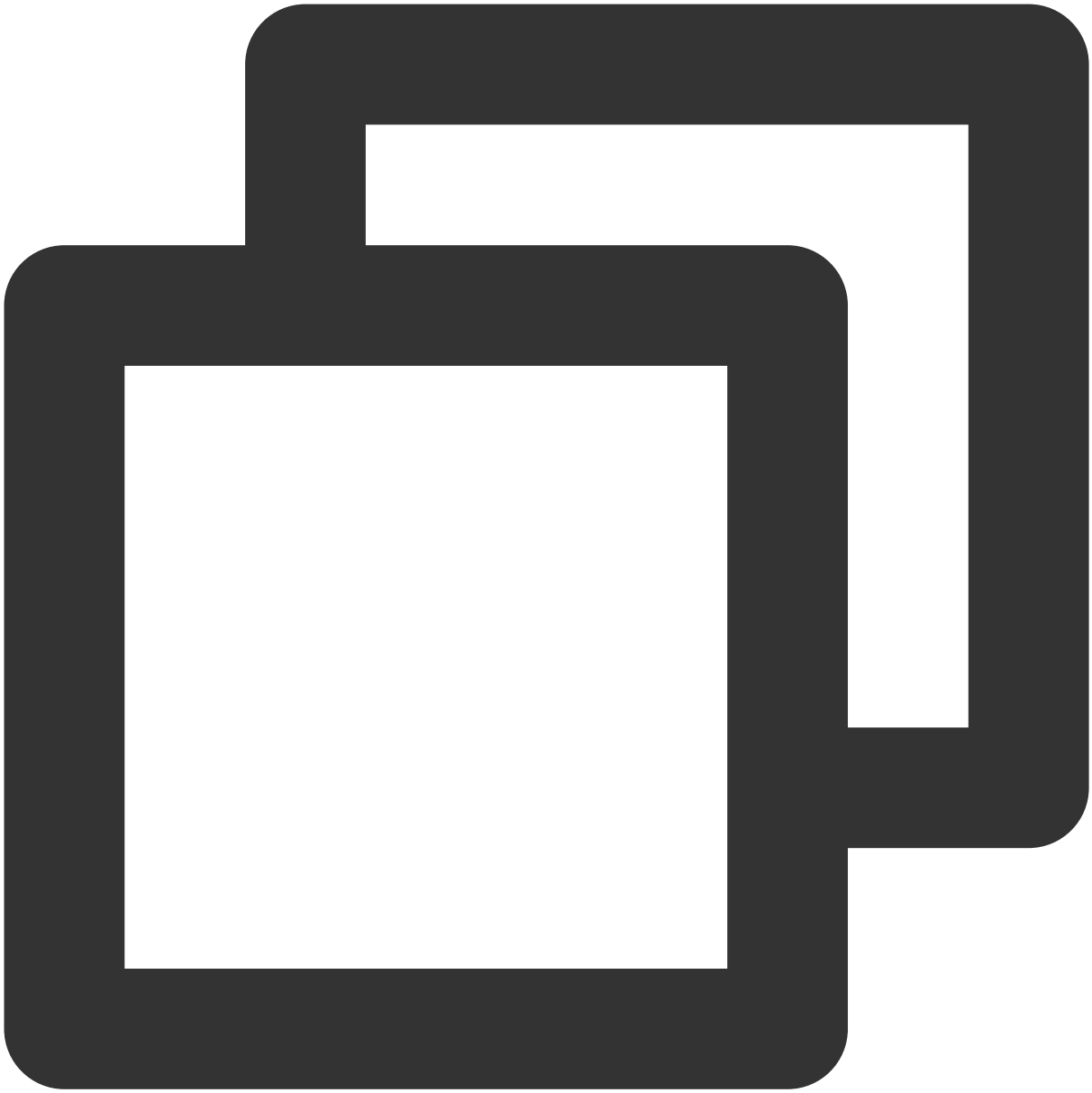

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 378
Connection: close
Date: Sat, 30 May 2020 18:16:40 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 4510578591875220731
x-cos-request-id: NWVkMmEzMDhfYzhjODJhMDlfMjNhYTBfMjdmNjN1****
x-cos-server-side-encryption: cos/kms
x-cos-server-side-encryption-cos-kms-key-id: 48ba38aa-26c5-11ea-855c-52540085****
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<CompleteMultipartUploadResult xmlns="http://www.qcloud.com/document/product/436/77
    <Location>http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleob
    <Bucket>examplebucket-1250000000</Bucket>
    <Key>exampleobject</Key>
    <ETag>&amp;quot;8093dc3e18f7070444e6ca21789eb8d4-1&amp;quot;</ETag>
</CompleteMultipartUploadResult>
```

Example 4: using server-side encryption SSE-C

Request

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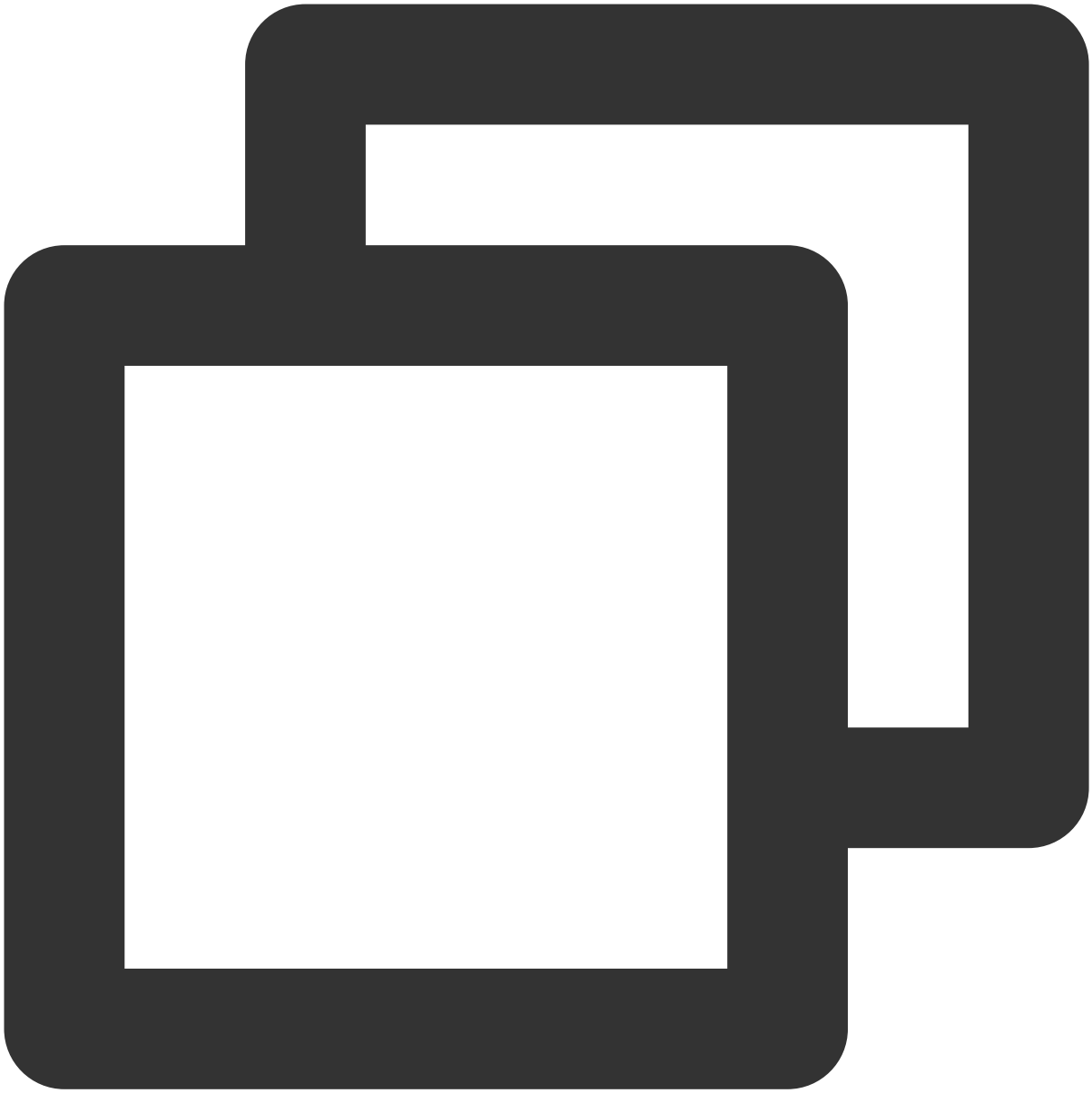

```
POST /exampleobject?uploadId=1590862610acd643927bad05cd3947bf98b56b04b0b0b2a45a4996
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 30 May 2020 18:17:11 GMT
Content-Type: application/xml
Content-Length: 153
Content-MD5: MnXmb3yvrbwMfBlUwUE1Hg==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<CompleteMultipartUpload>
    <Part>
```

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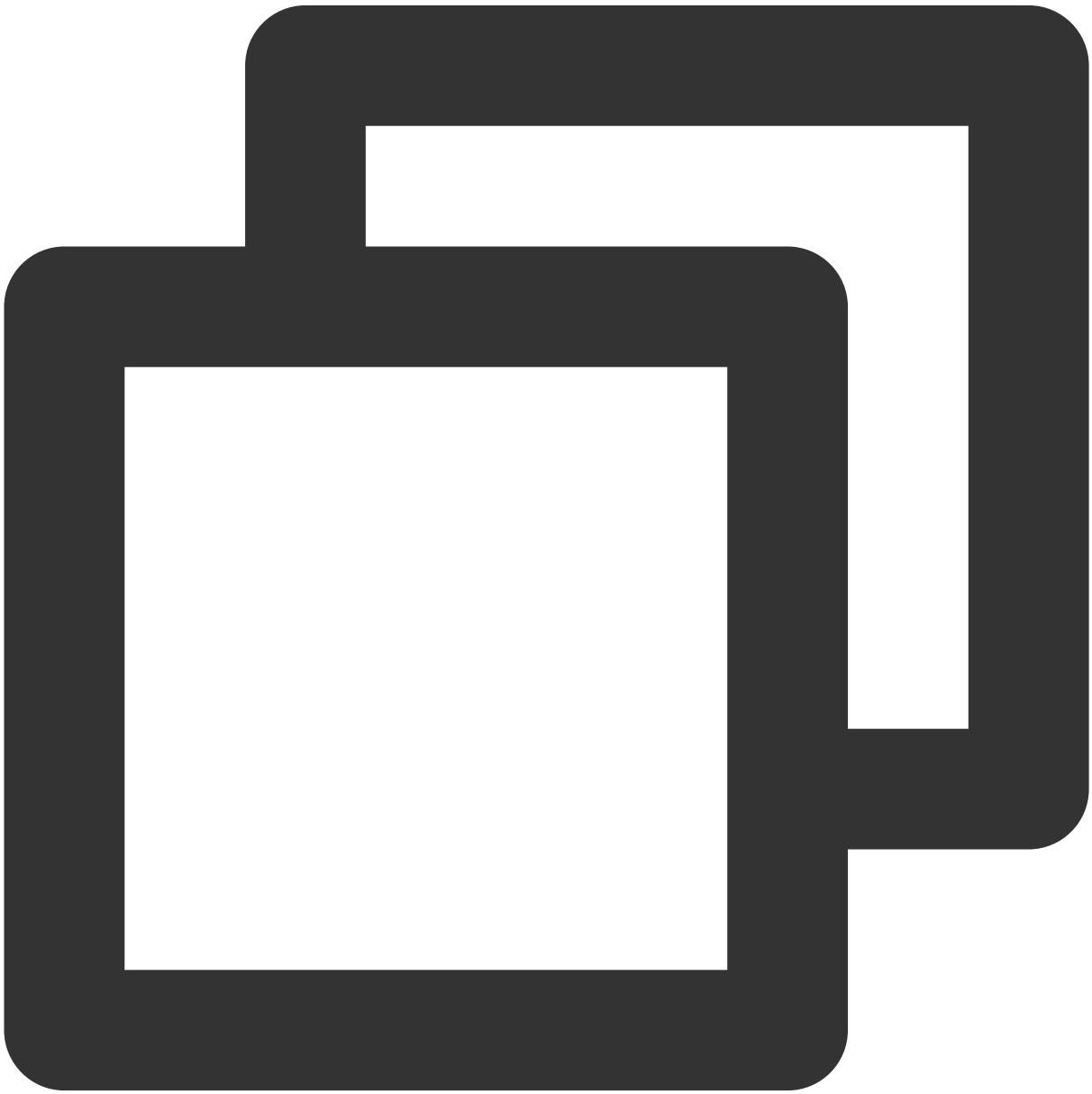
```
        <PartNumber>1</PartNumber>
        <ETag>"ff14981a35a58eb97bca838b055c573b"</ETag>
    </Part>
</CompleteMultipartUpload>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 378
Connection: close
```

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```
Date: Sat, 30 May 2020 18:17:11 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 4510578591875220731
x-cos-request-id: NWVkMmEzMjdfODljOTJhMDlfMzQ2ZDNfMWMwZWYy****
x-cos-server-side-encryption-customer-algorithm: AES256
x-cos-server-side-encryption-customer-key-MD5: U5L61r7jcwdNvT7frmUG8g==

<?xml version="1.0" encoding="UTF-8"?>
<CompleteMultipartUploadResult xmlns="http://www.qcloud.com/document/product/436/77
    <Location>http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleob
    <Bucket>examplebucket-1250000000</Bucket>
    <Key>exampleobject</Key>
    <ETag>&amp;quot;55973f71e8e892273053617e6b83d1c7-1&amp;quot;</ETag>
</CompleteMultipartUploadResult>
```

Example 5: versioning-enabled

Request

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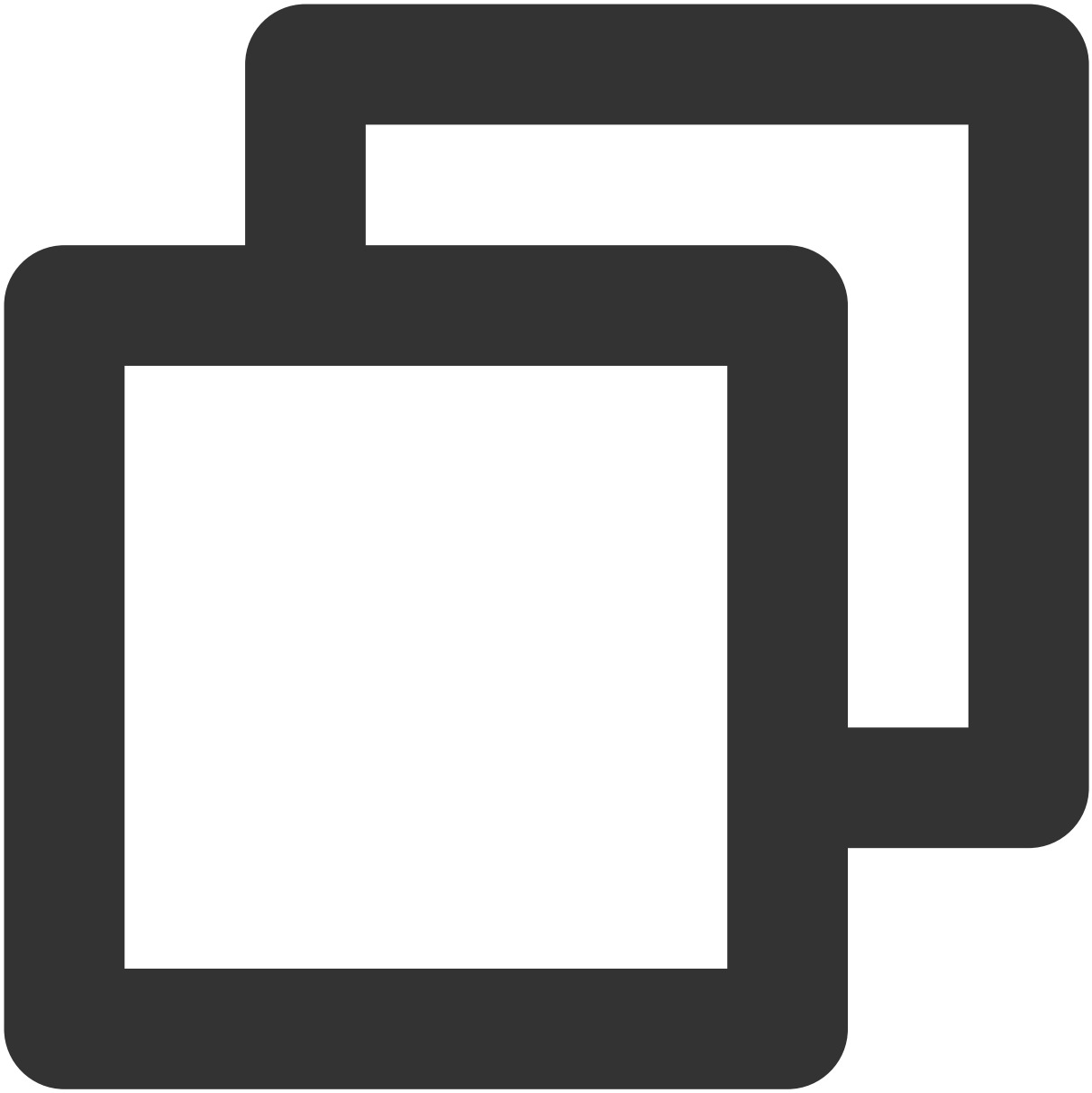

```
POST /exampleobject?uploadId=15908626631e1995018f81a5e563837d6d7f1b51d7c97dff099892
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 30 May 2020 18:18:04 GMT
Content-Type: application/xml
Content-Length: 153
Content-MD5: wmpyfdr9s/A+VCBwDdC1bA==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<CompleteMultipartUpload>
    <Part>
```

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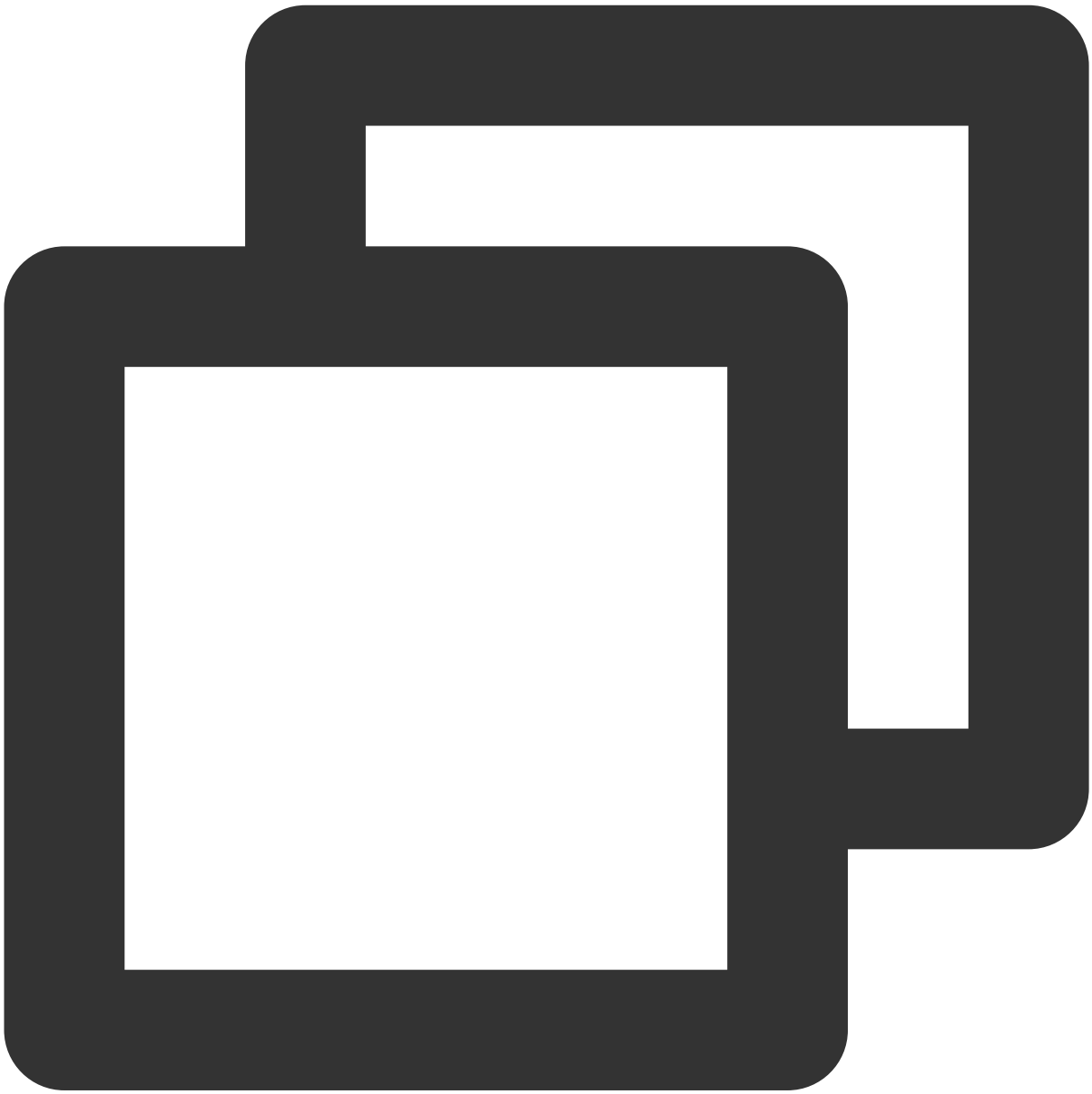
```
        <PartNumber>1</PartNumber>
        <ETag>"108f528eb63b65e734f27ae331f5ffaa"</ETag>
    </Part>
</CompleteMultipartUpload>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 378
Connection: close
```

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```
Date: Sat, 30 May 2020 18:18:04 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 4510578591875220731
x-cos-request-id: NWVkMmEzNWNfOGNjOTJhMDlfMWQ4NjJfMWM0NGUw****
x-cos-version-id: MTg0NDUxNTMyMTEwNDU1NDc3OTc

<?xml version="1.0" encoding="UTF-8"?>
<CompleteMultipartUploadResult xmlns="http://www.qcloud.com/document/product/436/77
    <Location>http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleob
    <Bucket>examplebucket-1250000000</Bucket>
    <Key>exampleobject</Key>
    <ETag>&amp;quot;42318fc0ec58952b0d9ab4d7a006f595-1&amp;quot;</ETag>
</CompleteMultipartUploadResult>
```

Example 6: versioning-suspended

Request

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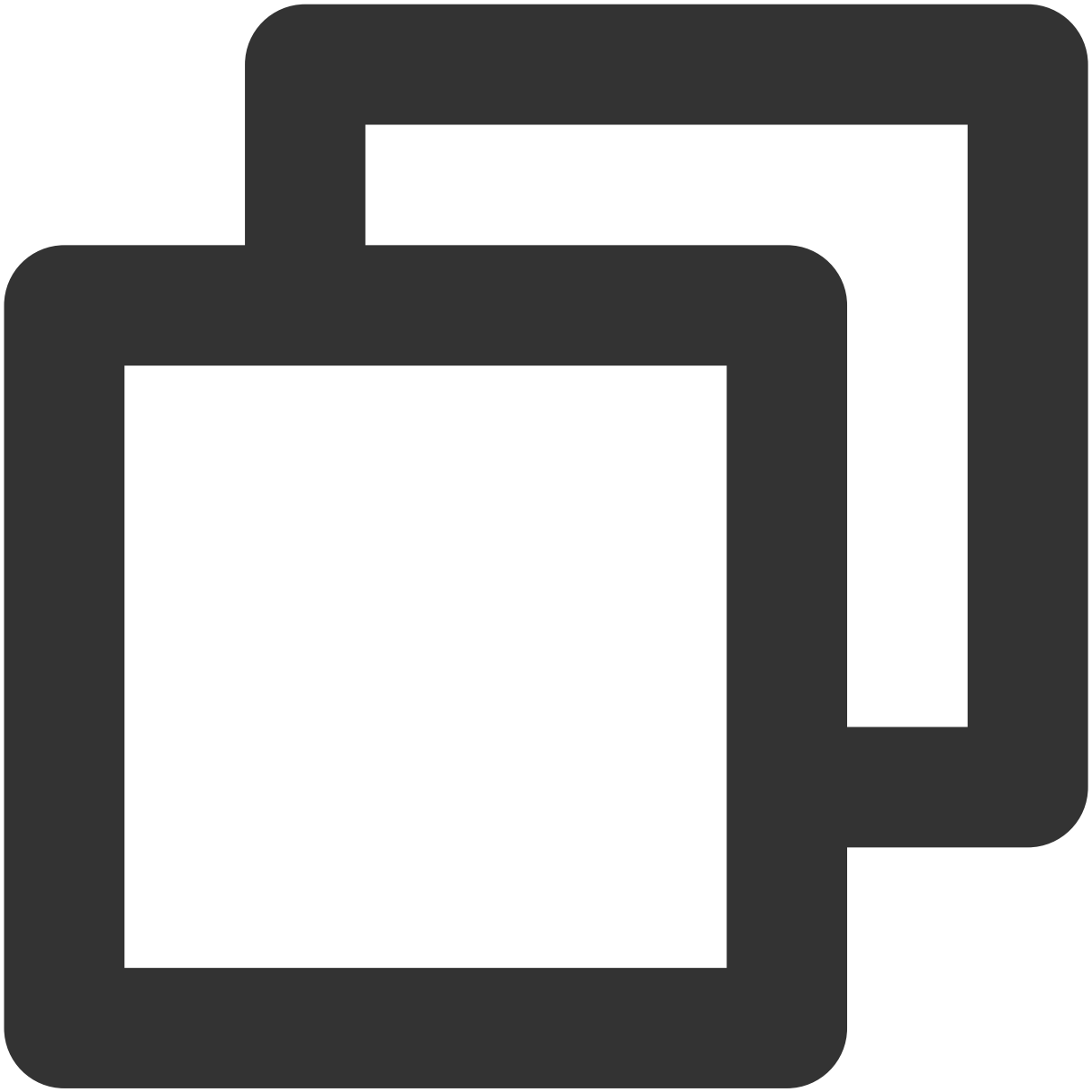

```
POST /exampleobject?uploadId=1590862705b4349d597c0db1281e1c666bc431eb468b3a64076be7
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Sat, 30 May 2020 18:18:45 GMT
Content-Type: application/xml
Content-Length: 153
Content-MD5: wmpyfdr9s/A+VCBwDdC1bA==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<CompleteMultipartUpload>
    <Part>
```

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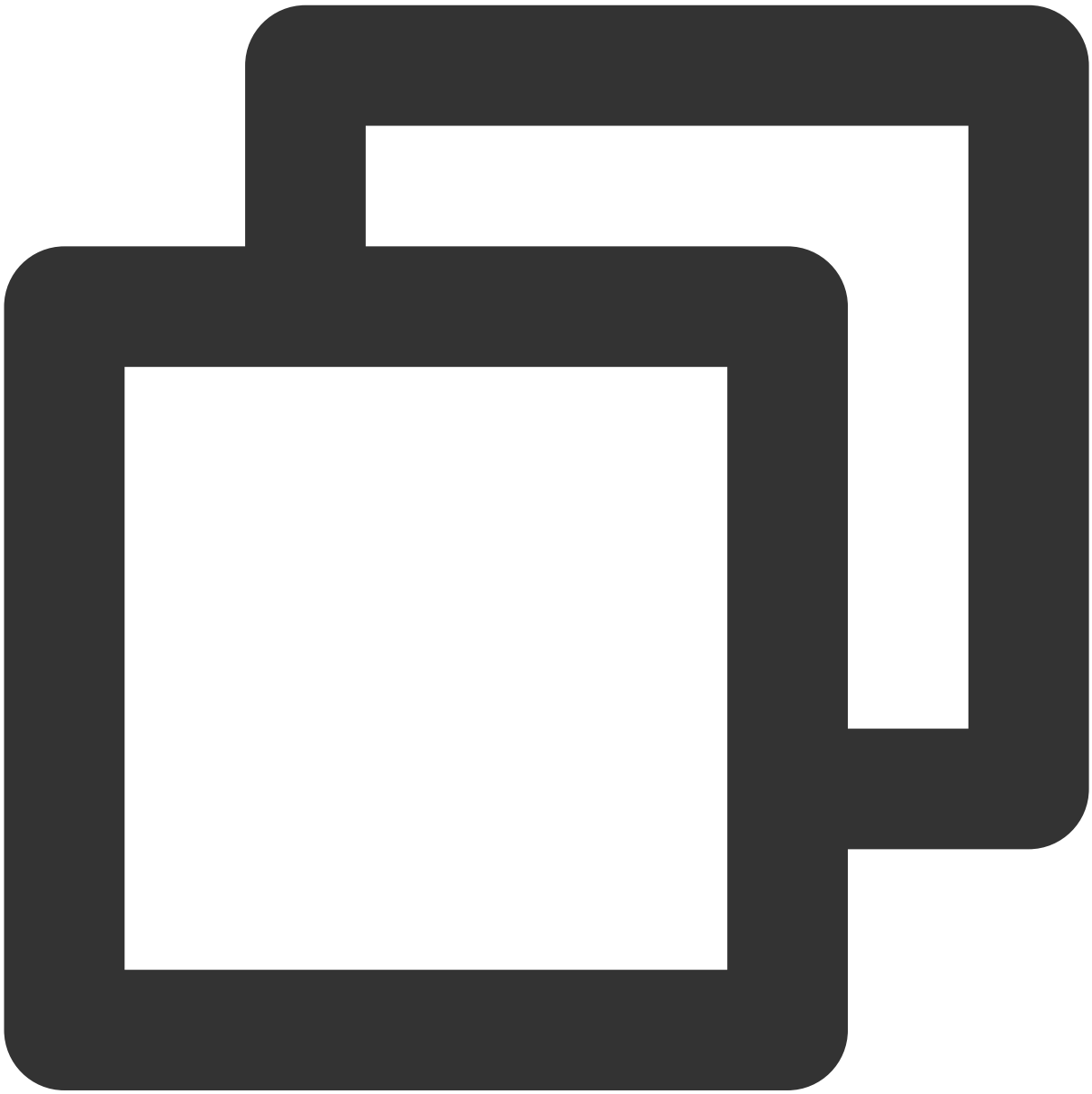
```
        <PartNumber>1</PartNumber>
        <ETag>"108f528eb63b65e734f27ae331f5ffaa"</ETag>
    </Part>
</CompleteMultipartUpload>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 378
Connection: close
```

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```
Date: Sat, 30 May 2020 18:18:45 GMT
Server: tencent-cos
x-cos-hash-crc64ecma: 4510578591875220731
x-cos-request-id: NWVkMmEzODVfZjZjMjBiMDlfNGYzZV8zODc4****
x-cos-version-id: null

<?xml version="1.0" encoding="UTF-8"?>
<CompleteMultipartUploadResult xmlns="http://www.qcloud.com/document/product/436/77
    <Location>http://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exampleob
    <Bucket>examplebucket-1250000000</Bucket>
    <Key>exampleobject</Key>
    <ETag>&amp;quot;491509b1fdf8e13d1f51d323c4a6d0e8-1&amp;quot;</ETag>
</CompleteMultipartUploadResult>
```

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Abort Multipart Upload

Last updated：2024-06-12 15:10:38

Overview

This API is used to abort a multipart upload and delete the uploaded parts. When you call this API, if there is a request using the parts uploaded with `Upload Part`, the request will fail. If the `uploadId` does not exist, "404 NoSuchUpload" will be returned.

Note:

Only the root account or sub-accounts granted the permission of the `Abort Multipart Upload` API can call this API.

Note:

We recommend you either complete or abort a multipart upload as early as possible, as the uploaded parts of an incomplete multipart upload will take up storage capacity and incur storage fees.

Request

Request example

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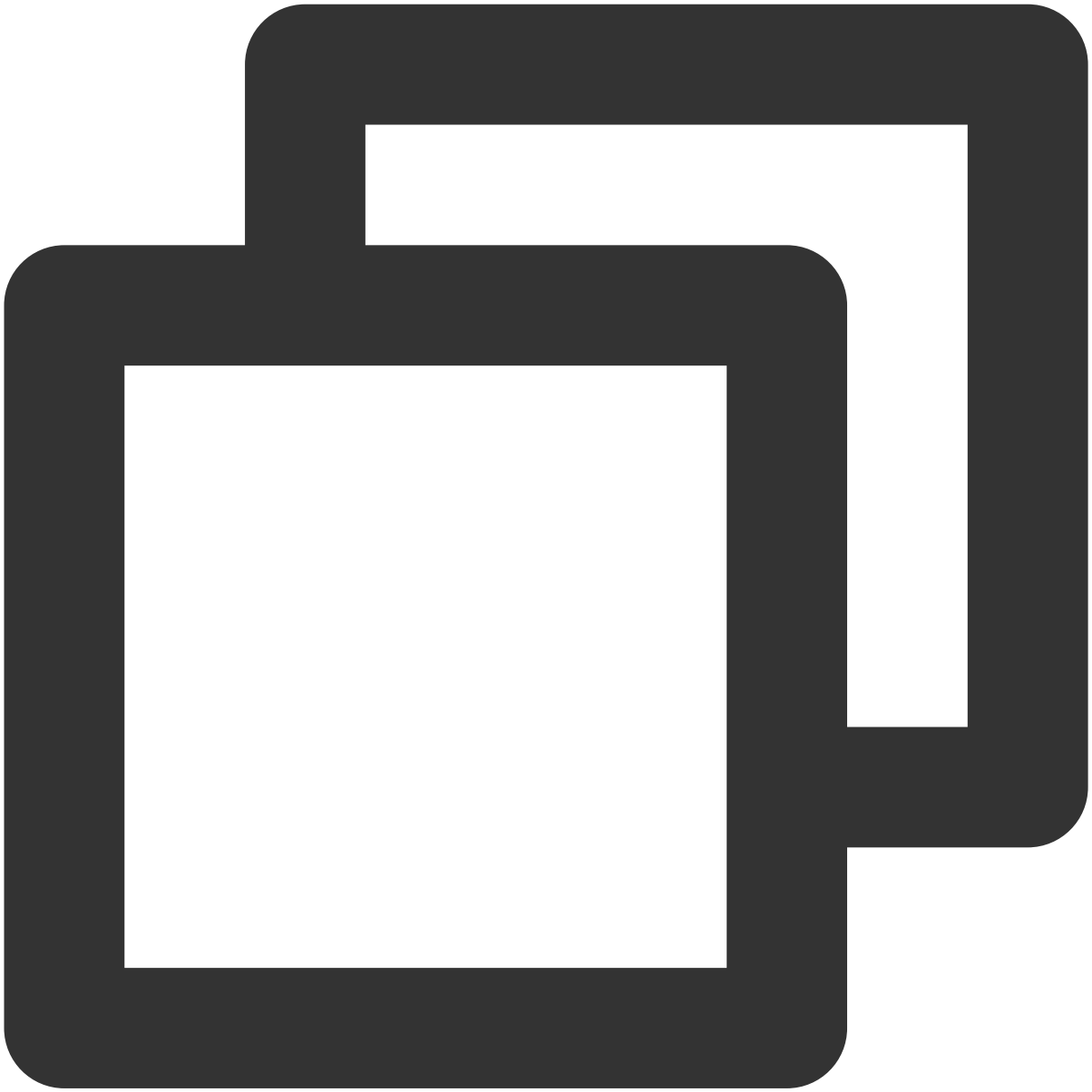

```
DELETE /<ObjectKey>?uploadId=UploadId HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Request fields

The parameter is described as follows:

Parameter	Description	Type	Required

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uploadId	Multipart upload ID obtained from the `Initiate Multipart Upload` API	String	Yes

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Request

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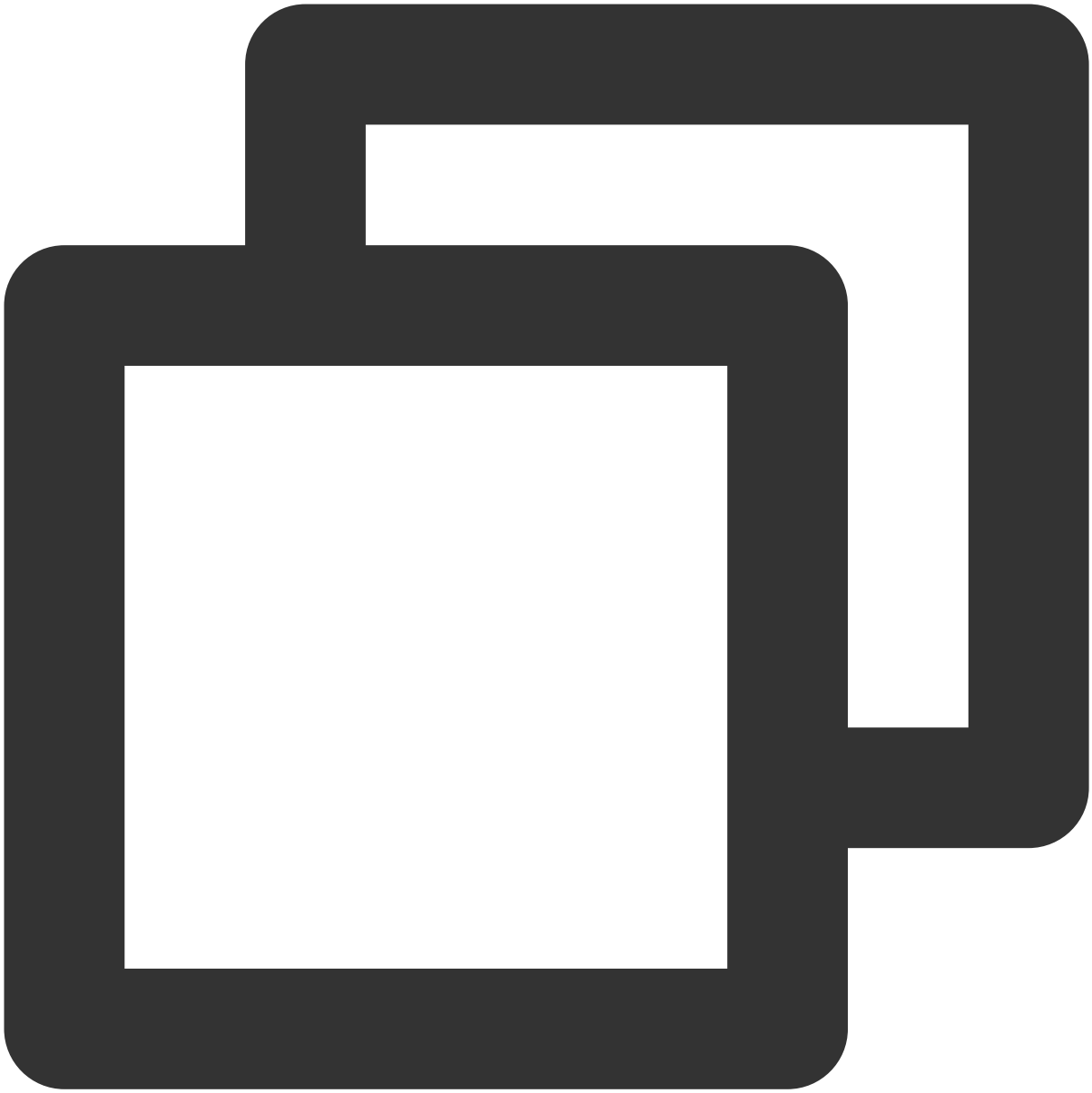

```
DELETE /exampleobject?uploadId=1484727270323ddb949d528c629235314a9ead80f0ba5d993a3d
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Tue, 26 Oct 2013 21:22:00 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj****&q-si
```

Response

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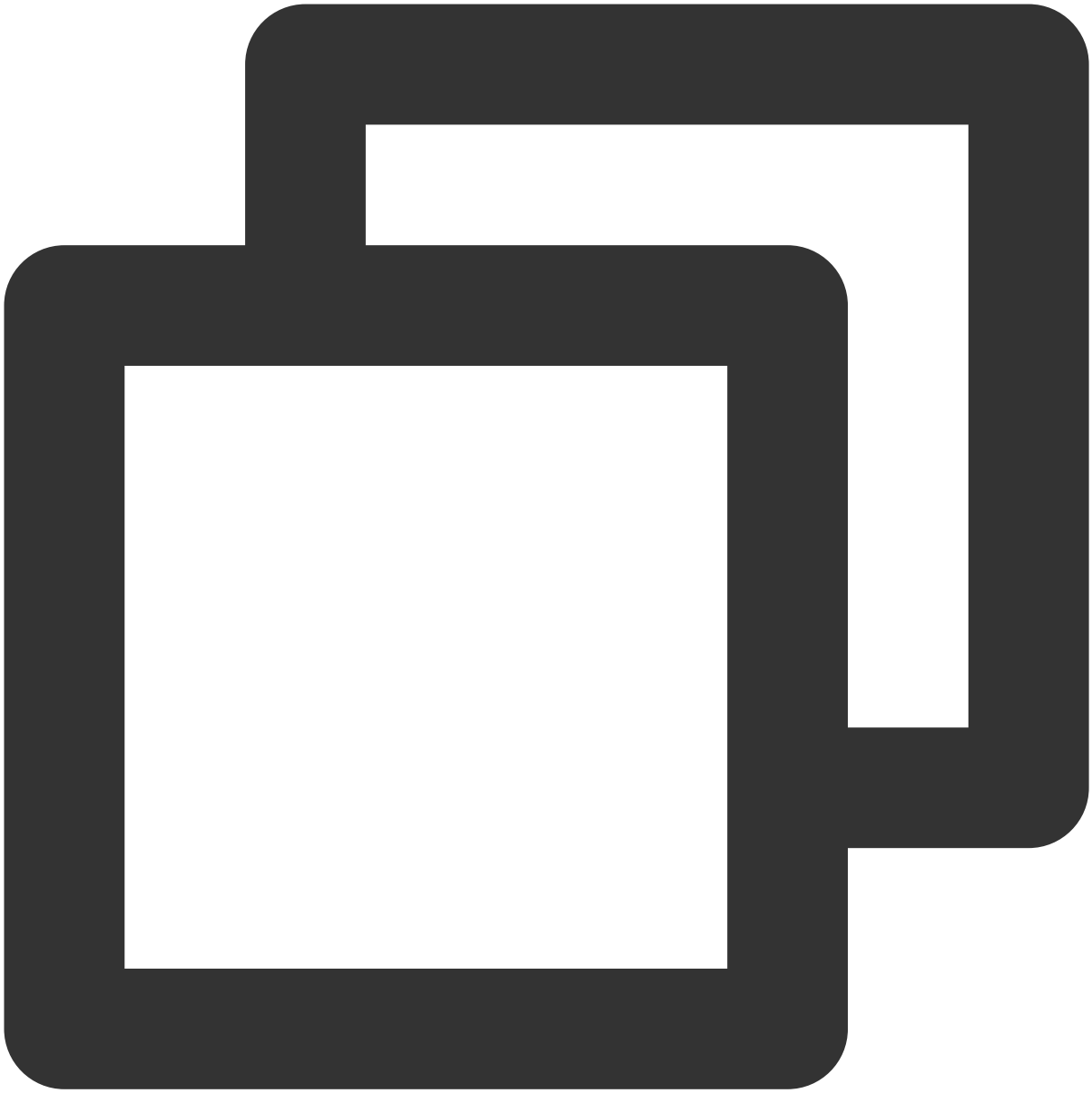

```
HTTP/1.1 204 OK
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Tue, 26 Oct 2013 21:22:00 GMT
Server: tencent-cos
x-cos-request-id: NTg3ZjI5MzlfOTgxZjRlXzZhYjNf****
```

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List Multipart Uploads

Last updated：2024-06-12 15:10:38

Overview

This API is used to query the ongoing multipart uploads. Up to 1,000 multipart uploads can be listed in a single request.

Note:

The request requires read access to the bucket. Only the root account or sub-accounts granted the permissions of the `List Multipart Upload` API can call this API.

Request

Sample request

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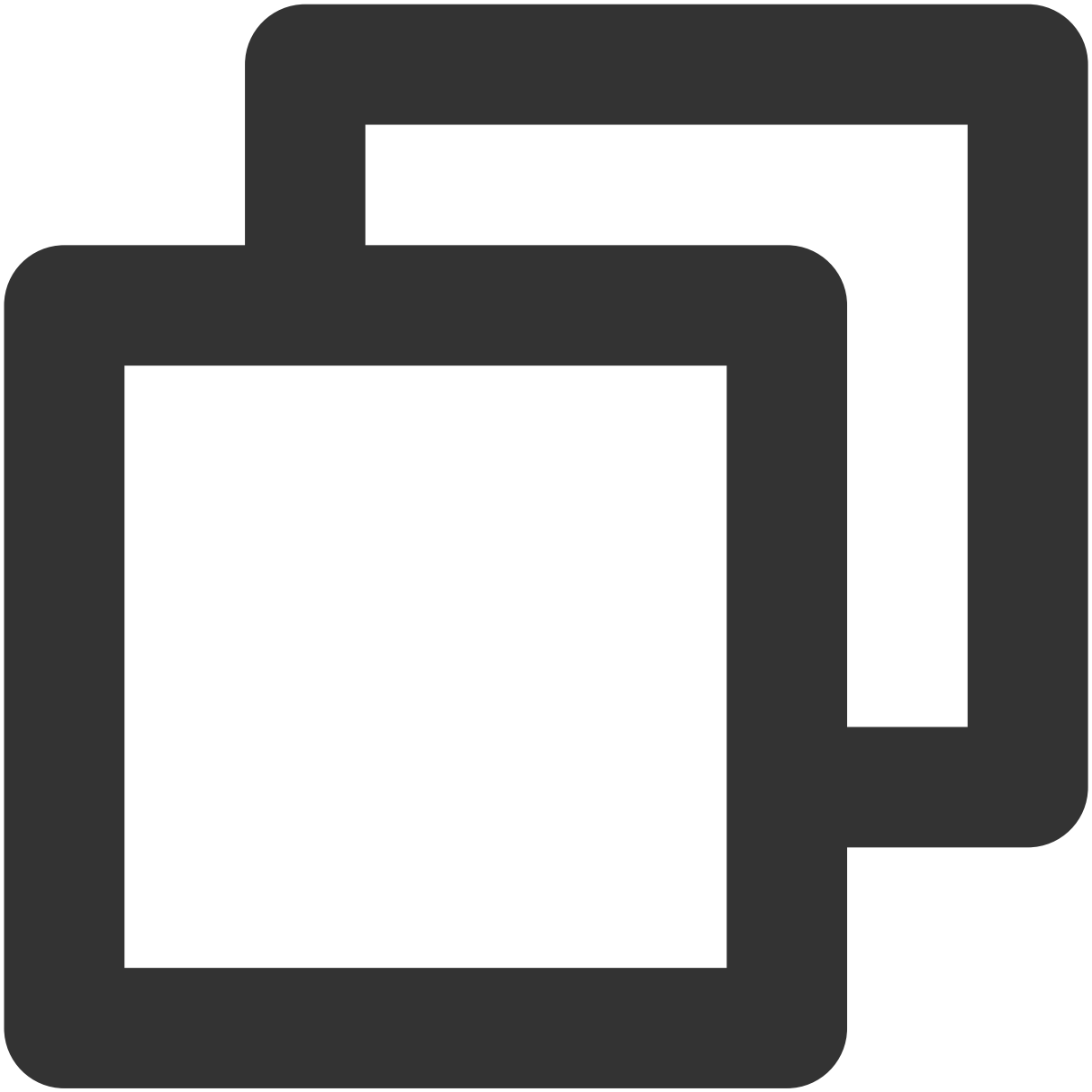

```
GET /?uploads HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host: <BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the bucket name followed by the `APPID` , such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request parameters

The parameters are as follows:

Parameter	Description	Type	Required
delimiter	A symbol. The identical paths between `prefix` and the first occurrence of the `delimiter` are grouped and defined as a common prefix. If `prefix` is not specified, the common prefix starts with the beginning of the path.	String	No
encoding-type	Encoding type for the returned value. Valid value: `url`	String	No
prefix	A prefix that the returned object keys must start with. Note that if you use this parameter, the returned keys will contain this prefix.	String	No
max-uploads	Sets the maximum number of multipart uploads that can be returned at a time. Value range: 1–1000. Defaults to `1000` .	Int	No
key-marker	This parameter is used together with `upload-id-marker` : If `upload-id-marker` is not specified, multipart uploads whose `ObjectName` is lexicographically greater than `key-marker` will be listed. If `upload-id-marker` is specified, multipart uploads whose `ObjectName` is lexicographically greater than `key-marker` will be listed, and multipart uploads whose `ObjectName` is lexicographically equal to `key-marker` with `UploadId` greater than `upload-id-marker` will be listed.	String	No
upload-id-marker	This parameter is used together with `key-marker` : If `key-marker` is not specified, `upload-id-marker` will be ignored. If `key-marker` is specified, multipart uploads whose `ObjectName` is lexicographically greater than `key-marker` will be listed, and multipart uploads whose `ObjectName` is lexicographically equal to `key-marker` with `UploadId` greater than `upload-id-marker` will be listed.	String	No

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Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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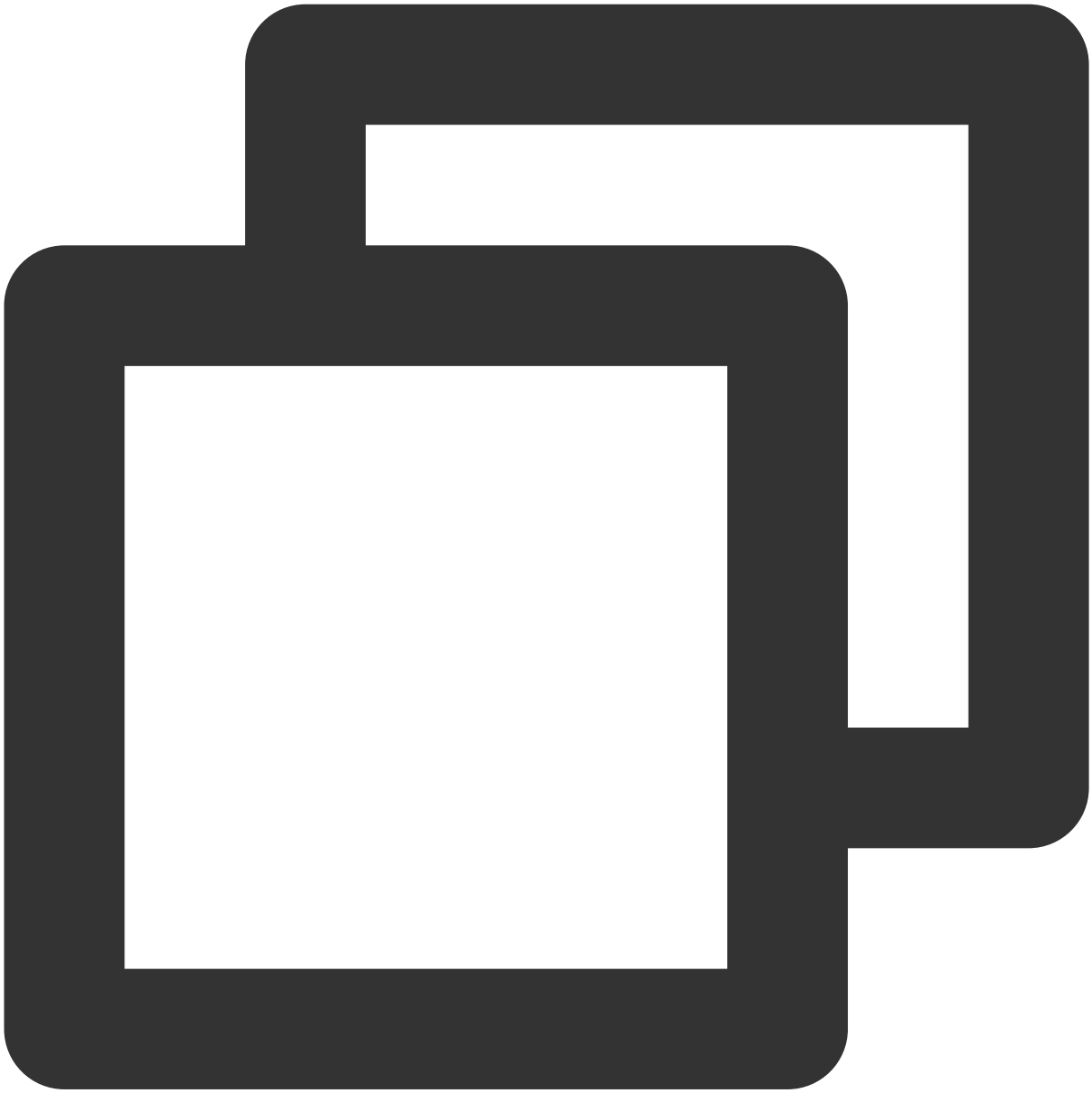

```
<ListMultipartUploadsResult>
  <Bucket></Bucket>
  <Encoding-Type></Encoding-Type>
  <KeyMarker></KeyMarker>
  <UploadIdMarker></UploadIdMarker>
  <NextKeyMarker></NextKeyMarker>
  <NextUploadIdMarker></NextUploadIdMarker>
  <MaxUploads></MaxUploads>
  <IsTruncated></IsTruncated>
  <Prefix></Prefix>
  <Delimiter></Delimiter>
```

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```
  <Upload>
    <Key></Key>
    <UploadId></UploadId>
    <StorageClass></StorageClass>
    <Initiator>
      <ID></ID>
    <DisplayName></DisplayName>
    </Initiator>
    <Owner>
      <ID></ID>
    <DisplayName></DisplayName>
    </Owner>
    <Initiated></Initiated>
  </Upload>
  <CommonPrefixes>
    <Prefix></Prefix>
  </CommonPrefixes>
</ListMultipartUploadsResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
ListMultipartUploadsResult	None	Information about all multipart uploads	Container

Content of `ListMultipartUploadsResult` :

Node Name (Keyword)	Parent Node	Description	Type
Bucket	ListMultipartUploadsResult	Destination bucket for the multipart upload. It is formed by connecting a user-defined string and the system-generated `APPID` with a hyphen, for example, `examplebucket-1250000000` .	String
Encoding-Type	ListMultipartUploadsResult	Encoding type for the returned value. Valid value: `url`	String
KeyMarker	ListMultipartUploadsResult	The key where the listing should start	String
UploadIdMarker	ListMultipartUploadsResult	The `UploadId` where the listing should start	String
NextKeyMarker	ListMultipartUploadsResult	If the returned list is truncated, the `NextKeyMarker` returned will be the starting point of the next list.	String

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NextUploadIdMarker	ListMultipartUploadsResult	If the returned list is truncated, the `UploadId` returned will be the starting point of the next list.	String
MaxUploads	ListMultipartUploadsResult	Maximum number of multipart uploads that can be returned at a time. Value range: 0–1000	int
IsTruncated	ListMultipartUploadsResult	Whether the returned list is truncated. Valid values: `TRUE` , `FALSE`	Boolean
Prefix	ListMultipartUploadsResult	A prefix that the returned object keys must start with. Note that if you use this parameter, the returned keys will contain this prefix.	String
Delimiter	ListMultipartUploadsResult	A symbol. The identical paths between `Prefix` and the first occurrence of the `Delimiter` are grouped and defined as a common prefix. If `Prefix` is not specified, the common prefix starts with the beginning of the path.	String
Upload	ListMultipartUploadsResult	Information about each upload	Container
CommonPrefixes	ListMultipartUploadsResult	The identical paths between `prefix` and `delimiter` are grouped and defined as a common prefix.	Container

Content of `Upload` :

Node Name (Keyword)	Parent Node	Description	Type
Key	ListMultipartUploadsResult.Upload	Name of the object	String
UploadID	ListMultipartUploadsResult.Upload	ID of the multipart upload	String
StorageClass	ListMultipartUploadsResult.Upload	Storage class of the parts. Enumerated values: `STANDARD` , `STANDARD_IA` , `ARCHIVE`	String
Initiator	ListMultipartUploadsResult.Upload	Information about the upload initiator	Container
Owner	ListMultipartUploadsResult.Upload	Information about the part owner	Container
Initiated	ListMultipartUploadsResult.Upload	Time when the multipart upload is	Date

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		started	

Content of `Initiator` :

Node Name (Keyword)	Parent Node	Description	Type
ID	ListMultipartUploadsResult.Upload.Initiator	Unique CAM ID of the upload initiator	String
DisplayName	ListMultipartUploadsResult.Upload.Initiator	User ID (UIN)	String

Content of `Owner` :

Node Name (Keyword)	Parent Node	Description	Type
ID	ListMultipartUploadsResult.Upload.Owner	Unique CAM ID of the part owner	String
DisplayName	ListMultipartUploadsResult.Upload.Owner	User ID (UIN)	String

Content of `CommonPrefixes` :

Node Name (Keyword)	Parent Node	Description	Type
Prefix	ListMultipartUploadsResult.CommonPrefixes	A common prefix	String

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

Examples

Request

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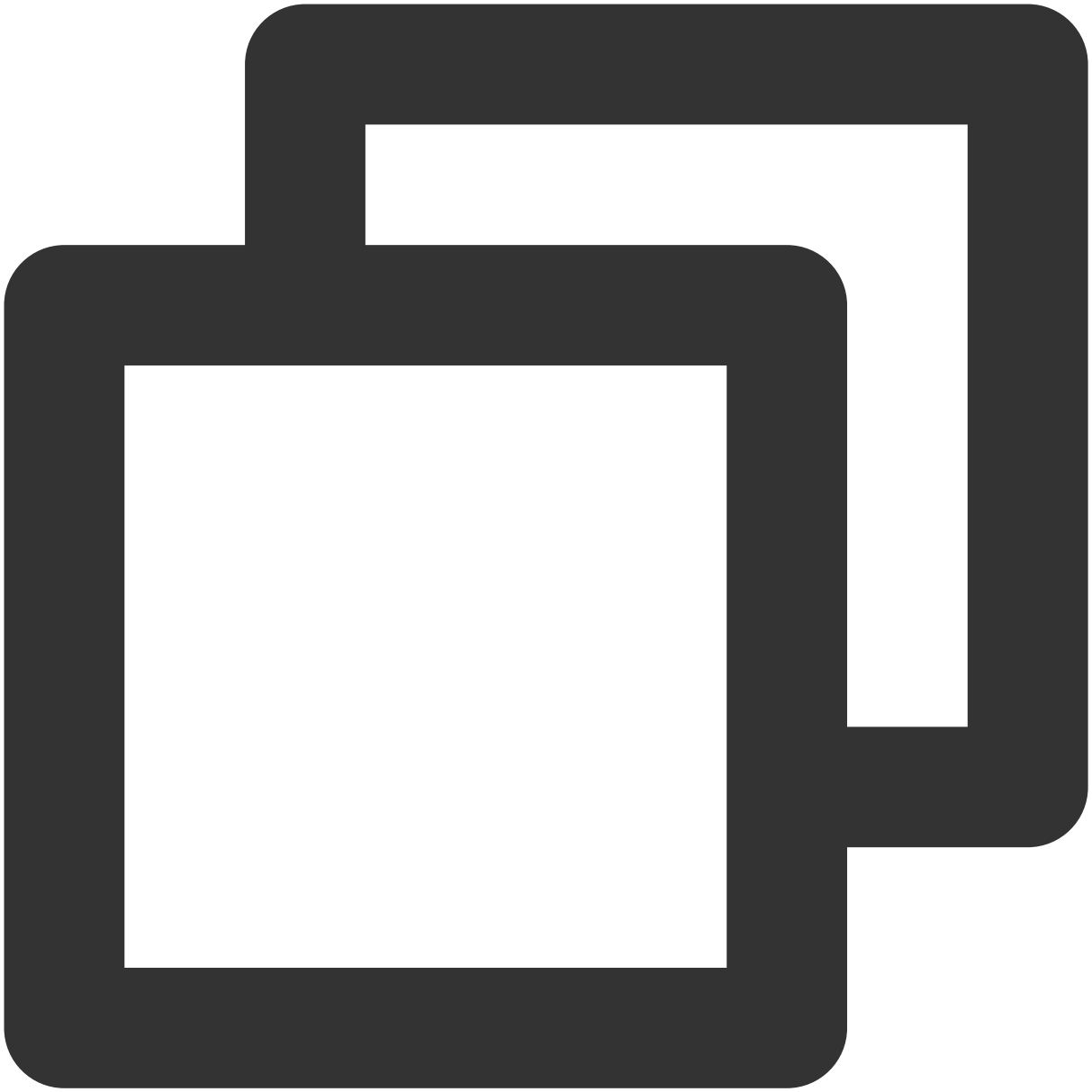

```
GET /?uploads HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 18 Jan 2015 21:32:00 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj****&q-si
```

Response

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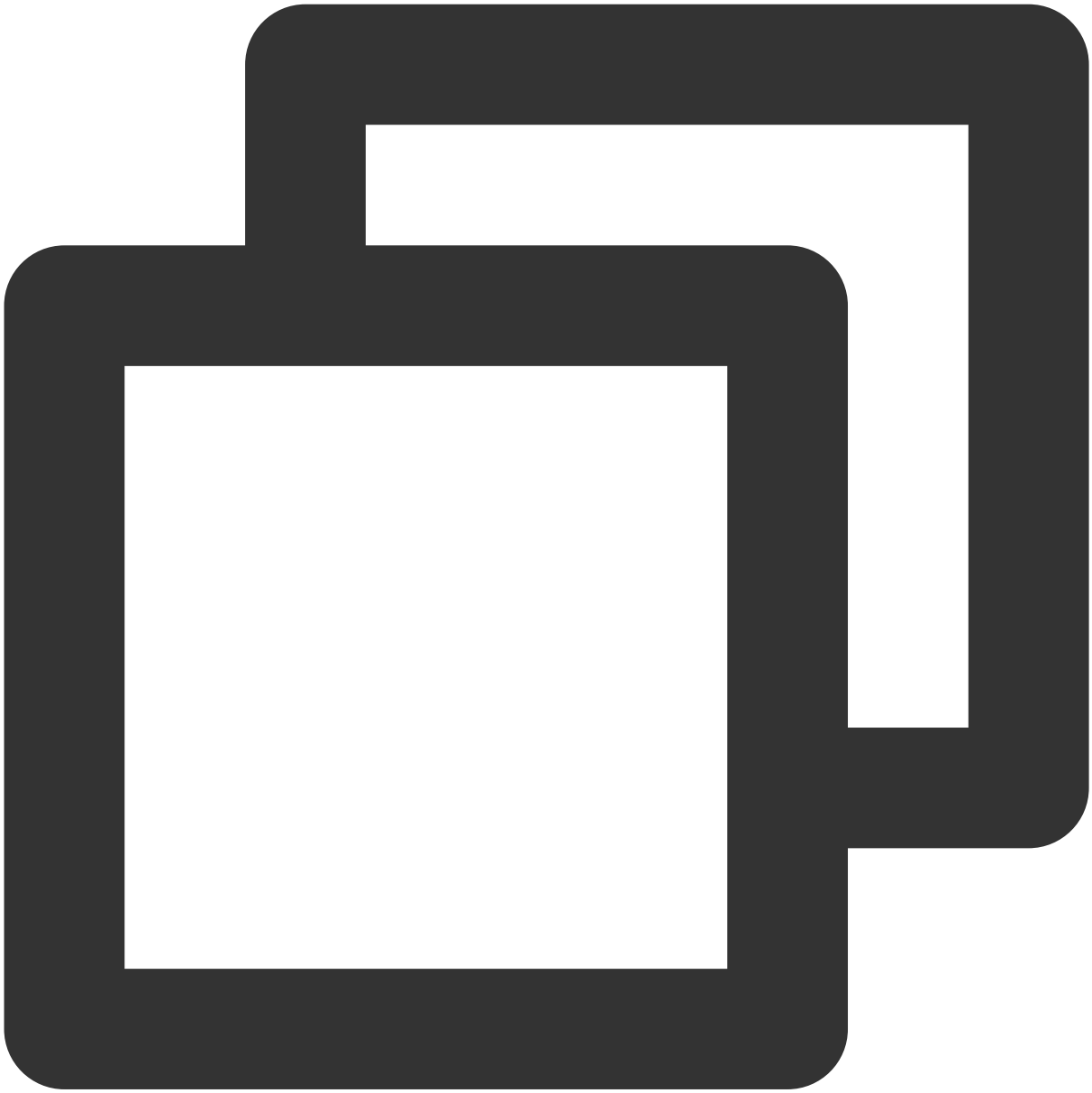

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1203
Date: Wed, 18 Jan 2015 21:32:00 GMT
Server: tencent-cos
x-cos-request-id: NTg3ZjI0ZGRfNDQyMDRlXzNhZmRf****

<ListMultipartUploadsResult>
    <Bucket>examplebucket-1250000000</Bucket>
    <Encoding-Type/>
    <KeyMarker/>
```

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```
    <UploadIdMarker/>
    <MaxUploads>1000</MaxUploads>
    <Prefix/>
    <Delimiter>/</Delimiter>
    <IsTruncated>false</IsTruncated>
    <Upload>
        <Key>Object</Key>
        <UploadId>1484726657932bcb5b17f7a98a8cad9fc36a340ff204c79bd2f51e7dddf0b6d1d
        <Initiator>
           <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
        <DisplayName>100000000001</DisplayName>
        </Initiator>
        <Owner>
           <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
        <DisplayName>100000000001</DisplayName>
        </Owner>
        <StorageClass>Standard</StorageClass>
        <Initiated>Wed Jan 18 16:04:17 2017</Initiated>
    </Upload>
    <Upload>
        <Key>Object</Key>
        <UploadId>1484727158f2b8034e5407d18cbf28e84f754b791ecab607d25a2e52de9fee641
        <Initiator>
           <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
        <DisplayName>100000000001</DisplayName>
        </Initiator>
        <Owner>
           <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
        <DisplayName>100000000001</DisplayName>
        </Owner>
        <StorageClass>Standard</StorageClass>
        <Initiated>Wed Jan 18 16:12:38 2017</Initiated>
    </Upload>
    <Upload>
        <Key>exampleobject</Key>
        <UploadId>1484727270323ddb949d528c629235314a9ead80f0ba5d993a3d76b460e6a9cce
        <Initiator>
           <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
        <DisplayName>100000000001</DisplayName>
        </Initiator>
        <Owner>
           <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
        <DisplayName>100000000001</DisplayName>
        </Owner>
        <StorageClass>Standard</StorageClass>
        <Initiated>Wed Jan 18 16:14:30 2017</Initiated>
    </Upload>
```

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```
</ListMultipartUploadsResult>
```

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List Parts

Last updated：2024-06-12 15:10:38

Overview

This API is used to query the uploaded parts of a specified multipart upload, i.e., listing all successfully uploaded parts of a multipart upload whose `uploadId` is specified.

Note:

Only the root account or sub-accounts granted the permission of the `List Part` API can call this API.

Requests

Request example

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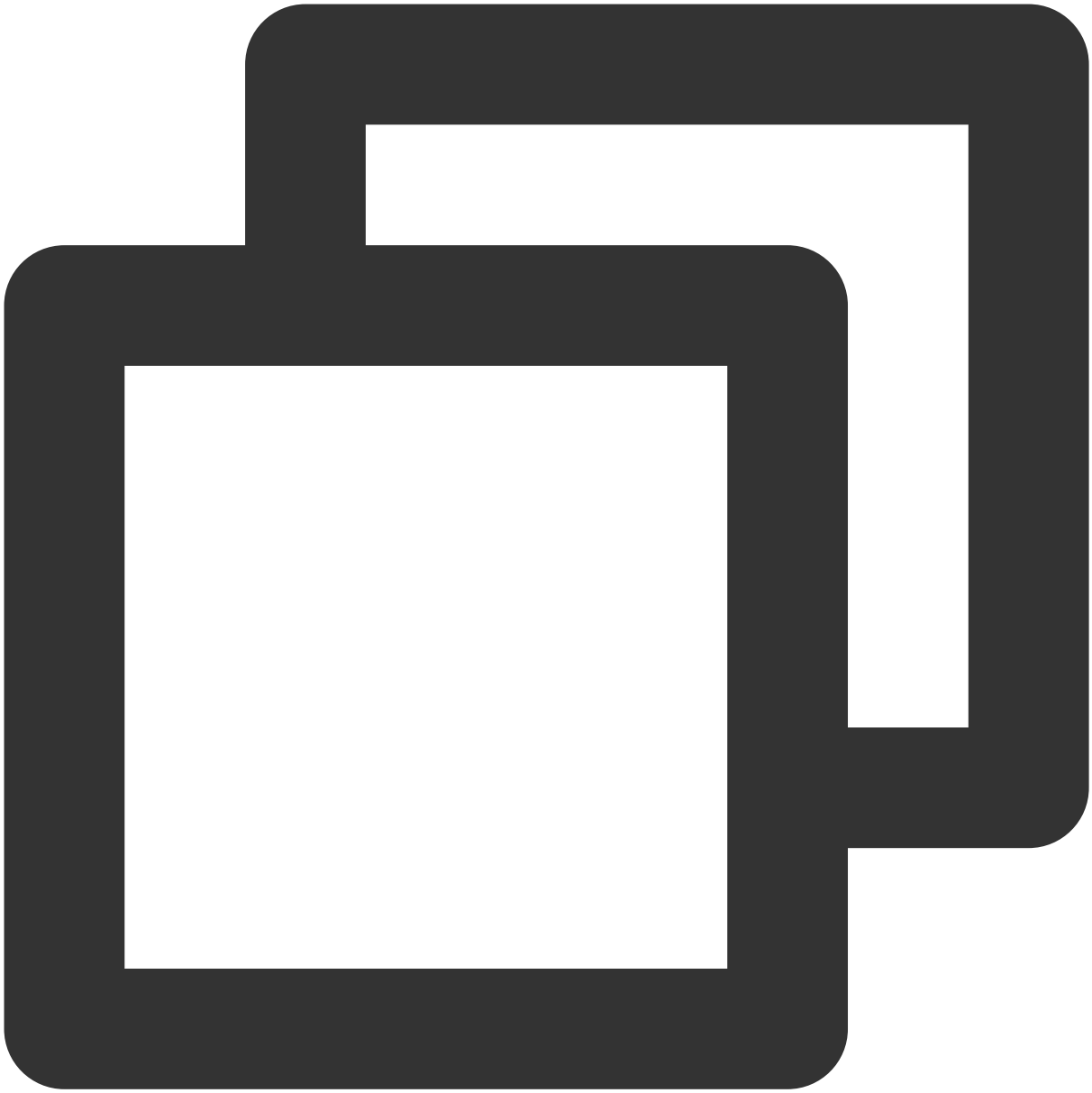

```
GET /<ObjectKey>?uploadId=UploadId HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host: <BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the bucket name followed by the `APPID` , such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request headers

This API only uses Common Request Headers.

Request fields

Parameter	Description	Type	Required
uploadId	Multipart upload ID obtained from the `Initiate Multipart Upload` API	string	Yes
encoding-type	Encoding type for the returned value	string	No
max-parts	Maximum number of entries to be returned at a time. Maximum value: `1000`. Default value: `1000`.	int	No
part-number-marker	By default, parts are listed in UTF-8 binary order, starting from the part after the marker.	string	No

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

A successful query returns **application/xml** data, which includes information about the successfully uploaded parts.

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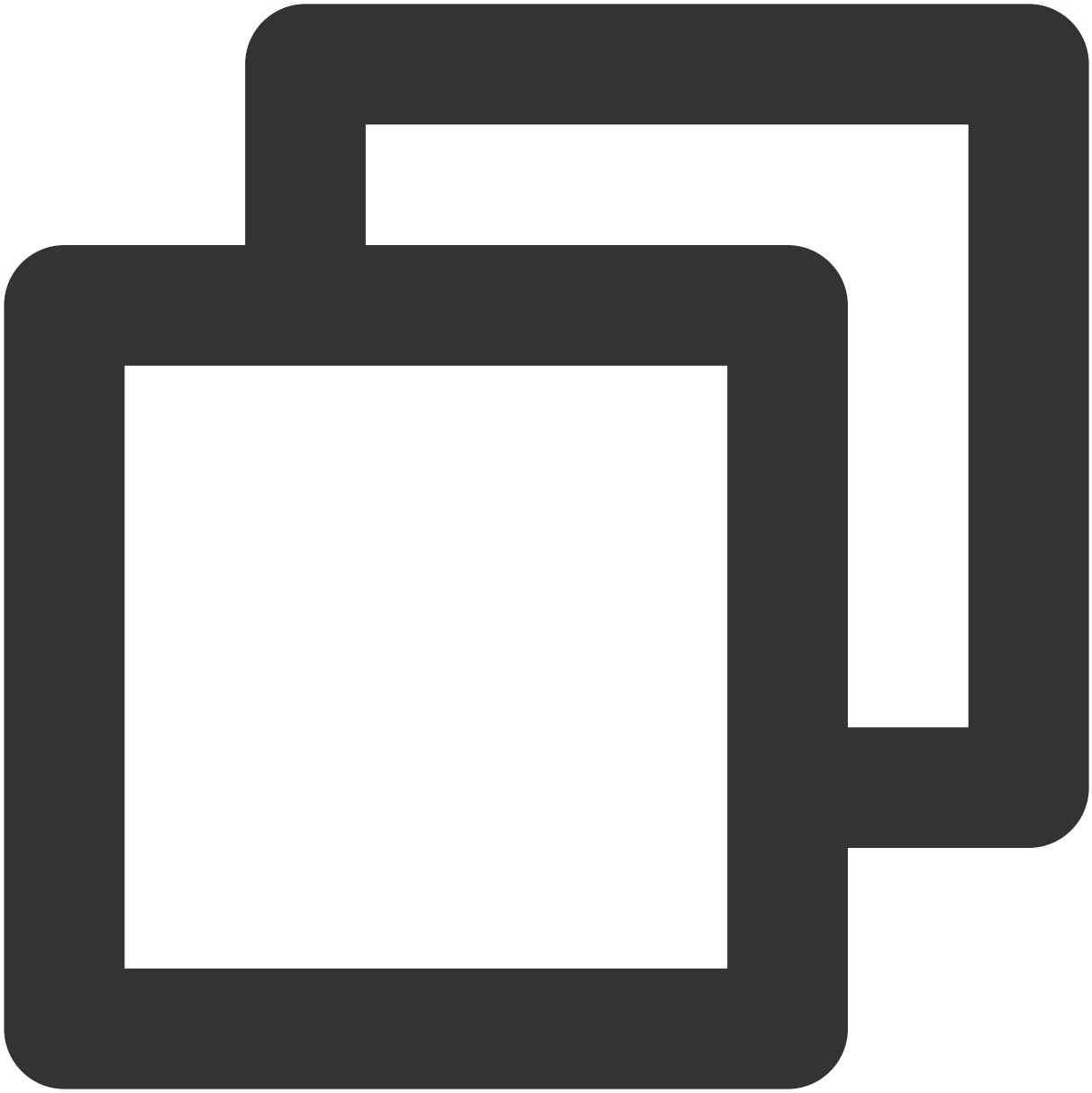

```
<?xml version="1.0" encoding="UTF-8" ?>
<ListPartsResult>
    <Bucket>examplebucket-1250000000</Bucket>
    <Encoding-type/>
    <Key>exampleobject</Key>
    <UploadId>14846420620b1f381e5d7b057692e131dd8d72dfa28f2633cfbbe4d0a9e8bd0719933
    <Initiator>
        <ID>1250000000</ID>
        <DisplayName>1250000000</DisplayName>
    </Initiator>
    <Owner>
```

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```
        <ID>qcs::cam::uin/100000000001:uin/100000000001</ID>
        <DisplayName>100000000001</DisplayName>
    </Owner>
    <PartNumberMarker>0</PartNumberMarker>
    <Part>
        <PartNumber>1</PartNumber>
        <LastModified>Tue Jan 17 16:43:37 2017</LastModified>
        <ETag>"a1f8e5e4d63ac6970a0062a6277e191fe09a1382"</ETag>
        <Size>5242880</Size>
    </Part>
    <NextPartNumberMarker>1</NextPartNumberMarker>
    <StorageClass>STANDARD</StorageClass>
    <MaxParts>1</MaxParts>
    <IsTruncated>true</IsTruncated>
</ListPartsResult>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
ListPartsResult	None	Stores the response of `List Parts` .	Container

Content of `ListPartsResult` :

Node Name (Keyword)	Parent Node	Description	Type
Bucket	ListPartsResult	Name of the destination bucket for the multipart upload. It is formed by connecting a user-defined string and the system-generated `APPID` with a hyphen, for example, `examplebucket-1250000000` .	string
Encoding-Type	ListPartsResult	Encoding type	string
Key	ListPartsResult	Object name	string
UploadId	ListPartsResult	ID of the multipart upload	string
Initiator	ListPartsResult	Information about the request initiator	Container
Owner	ListPartsResult	Information about the part owner	Container
StorageClass	ListPartsResult	Storage class of the parts. Enumerated values: `STANDARD` , `STANDARD_IA` , `ARCHIVE` , `DEEP_ARCHIVE` . For more information, please see Storage Class Overview.	string
PartNumberMarker	ListPartsResult	By default, parts are listed in UTF-8 binary order,	string

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		starting from the part after the marker.	
NextPartNumberMarker	ListPartsResult	If the returned list is truncated, the `NextMarker` returned will be the starting point of the subsequent list.	string
MaxParts	ListPartsResult	Maximum number of entries to be returned at a time	int
IsTruncated	ListPartsResult	Indicates whether the returned list is truncated. Valid values: `true` , `false`	boolean
Part	ListPartsResult	Metadata	Container

Content of `Initiator` :

Node Name (Keyword)	Parent Node	Description	Type
ID	ListPartsResult.Initiator	Unique ID of the initiator	string
DisplayName	ListPartsResult.Initiator	Username of the initiator	string

Content of `Owner` :

Node Name (Keyword)	Parent Node	Description	Type
ID	ListPartsResult.Owner	Unique ID of the owner	string
DisplayName	ListPartsResult.Owner	Username of the owner	string

Content of `Part` :

Node Name (Keyword)	Parent Node	Description	Type
PartNumber	ListPartsResult.Part	Part number	string
LastModified	ListPartsResult.Part	Last modified time of a part	string
ETag	ListPartsResult.Part	MD5 checksum of a part	string
Size	ListPartsResult.Part	Part size, in bytes	string

Error codes

This API returns common error responses and error codes. For more information, see Error Codes.

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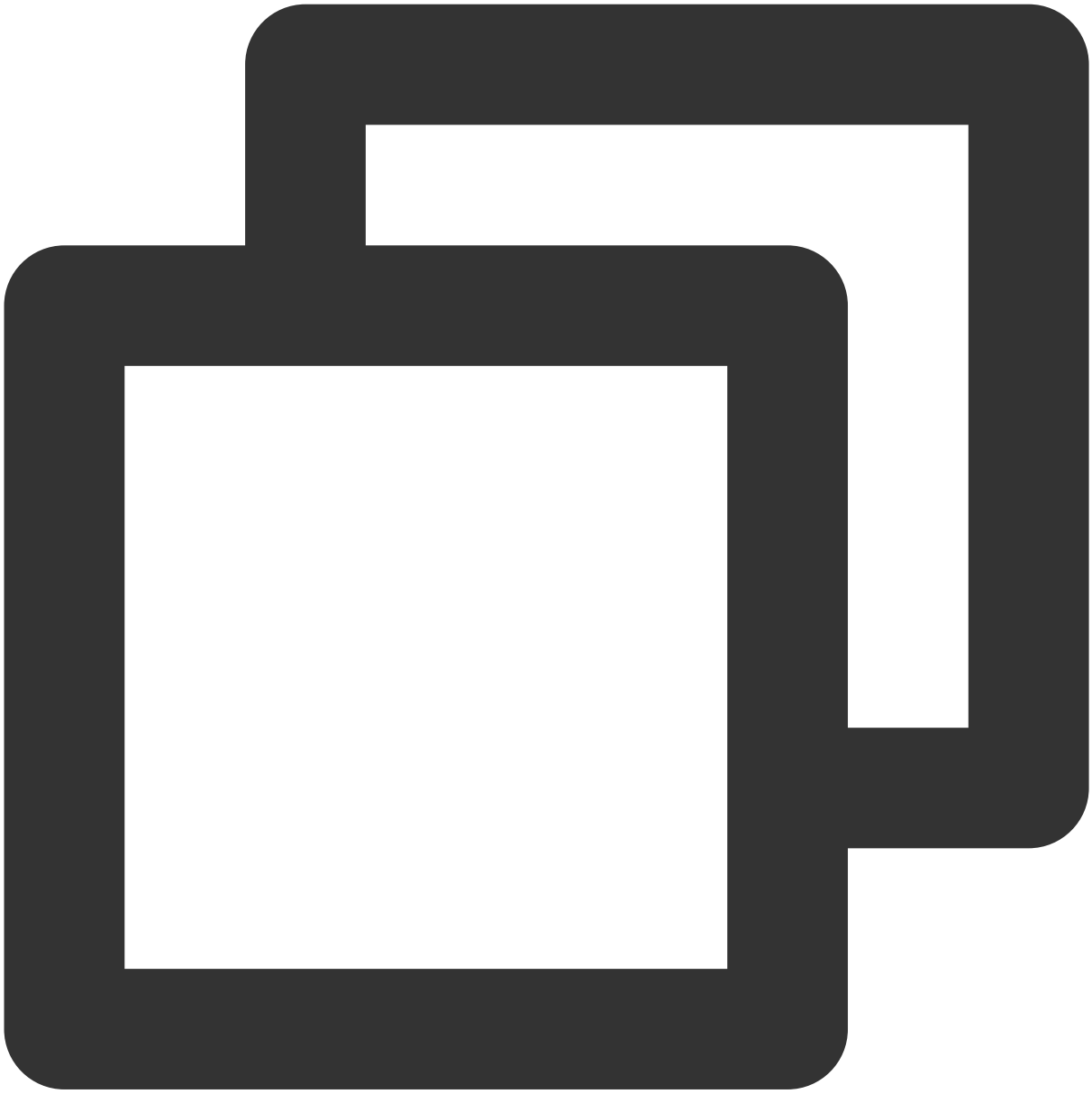
Examples

Request



```
GET /exampleobject?uploadId=1585130821cbb7df1d11846c073ad648e8f33b087cec2381df437ac
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Wed, 25 Mar 2020 10:07:25 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close
```

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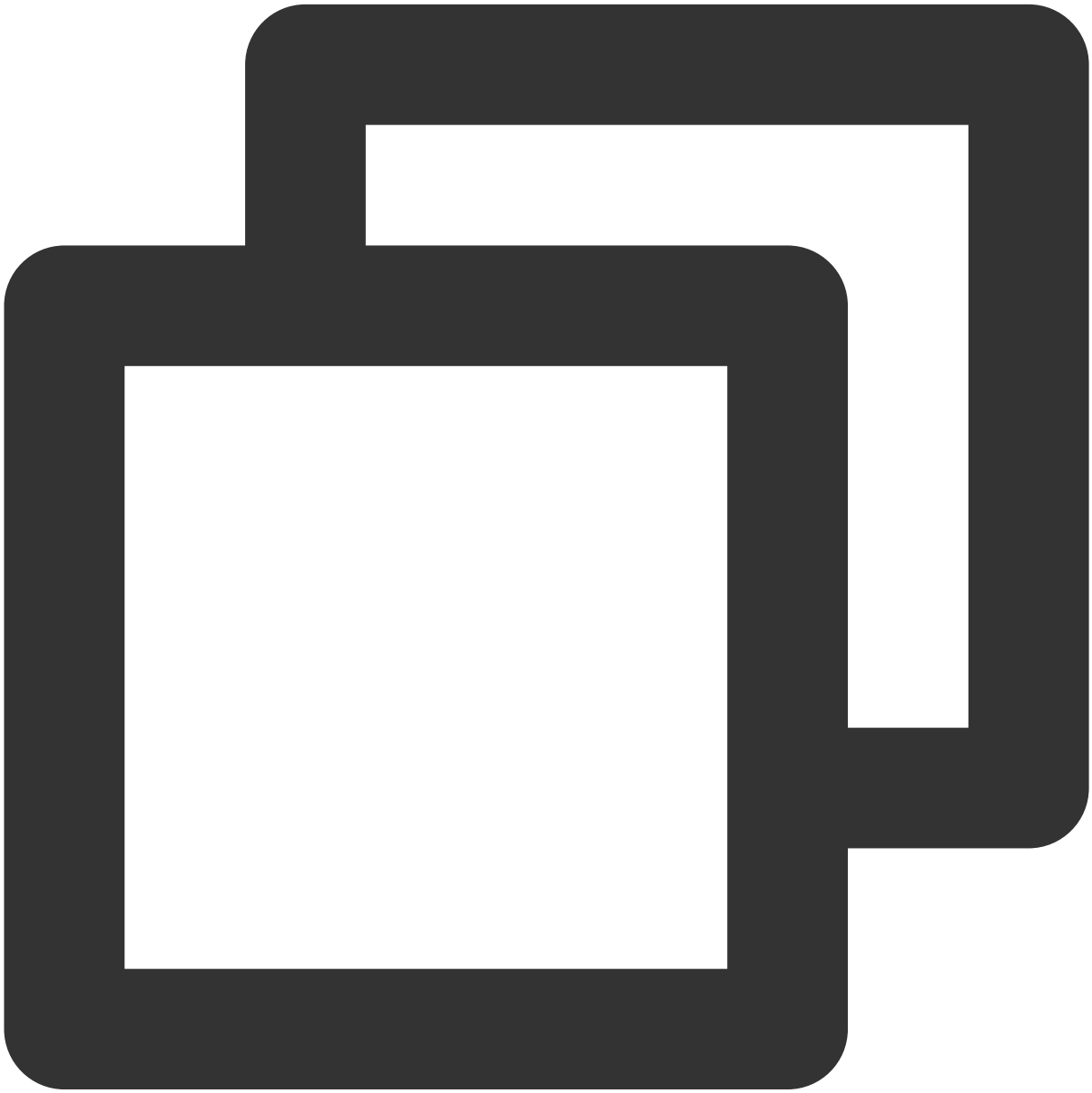
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 1119
Connection: close
Date: Wed, 25 Mar 2020 10:07:25 GMT
Server: tencent-cos
x-cos-request-id: NWU3YjJkNWRfMjNhZjJhMDlfNWY5Ml8zMmUy****
```

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```
<ListPartsResult>
            <Bucket>examplebucket-1250000000</Bucket>
            <EncodingType/>
            <Key>exampleobject</Key>
            <UploadId>1585130821cbb7df1d11846c073ad648e8f33b087cec2381df437acdc833c
            <Owner>
                <ID>1250000000</ID>
                <DisplayName>1250000000</DisplayName>
            </Owner>
            <PartNumberMarker>0</PartNumberMarker>
            <Initiator>
                <ID>qcs::cam::uin/100000000001:uin/100000000011</ID>
                <DisplayName>100000000011</DisplayName>
            </Initiator>
            <Part>
                <PartNumber>1</PartNumber>
                <LastModified>2020-03-25T10:07:14.000Z</LastModified>
                <ETag>&amp;quot;39270a968a357d24207e9911162507eb&amp;quot;</ETag>
                <Size>1048576</Size>
            </Part>
            <Part>
                <PartNumber>2</PartNumber>
                <LastModified>2020-03-25T10:07:13.000Z</LastModified>
                <ETag>&amp;quot;d899fbd1e06109ea2e4550f5751c88d6&amp;quot;</ETag>
                <Size>1048576</Size>
            </Part>
            <Part>
                <PartNumber>3</PartNumber>
                <LastModified>2020-03-25T10:07:13.000Z</LastModified>
                <ETag>&amp;quot;762890d6c9a871b7bd136037cb2260cd&amp;quot;</ETag>
                <Size>1048576</Size>
            </Part>
            <StorageClass>Standard</StorageClass>
            <MaxParts>1000</MaxParts>
            <IsTruncated>false</IsTruncated>
</ListPartsResult>
```

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Object Tag
PUT Object tagging

Last updated：2024-06-12 15:10:38

Overview

This API is used to set tags for an existing object. It can help you group and manage existing object resources by adding key-value pairs as object tags. For more information, please see Object Tagging Overview.
If a sub-account needs to call this API (`PUT Object tagging`), ensure that the root account has authorized it to do so.

Note:

Currently, you can set up to 10 different tags for one object. If you set more, new tags will overwrite the old ones.

Versioning

If you have enabled versioning for your bucket and want to add tags to a specific version of object, include the `VersionId` parameter in the request.

Requests

Sample request

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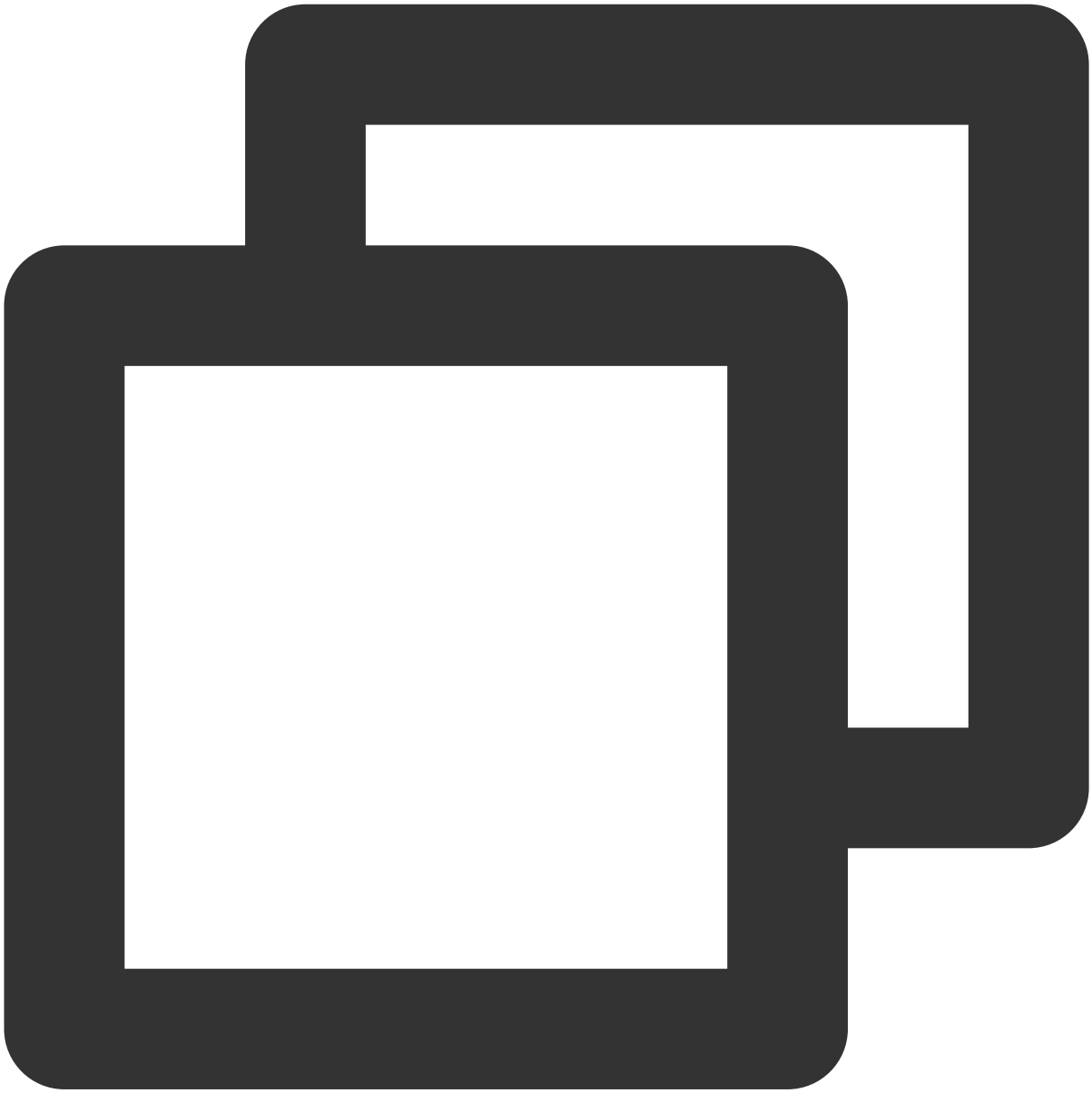

```
PUT /<ObjectKey>?tagging&VersionId=VersionId HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request parameters

Parameter	Description	Type	Required
versionId	Version ID of the object (if versioning is enabled). If this parameter is not specified, tags will be added to the latest version of the object.	string	No

Request headers

This API only uses Common Request Headers.

Request body

You need to set the following tag set in the request body:

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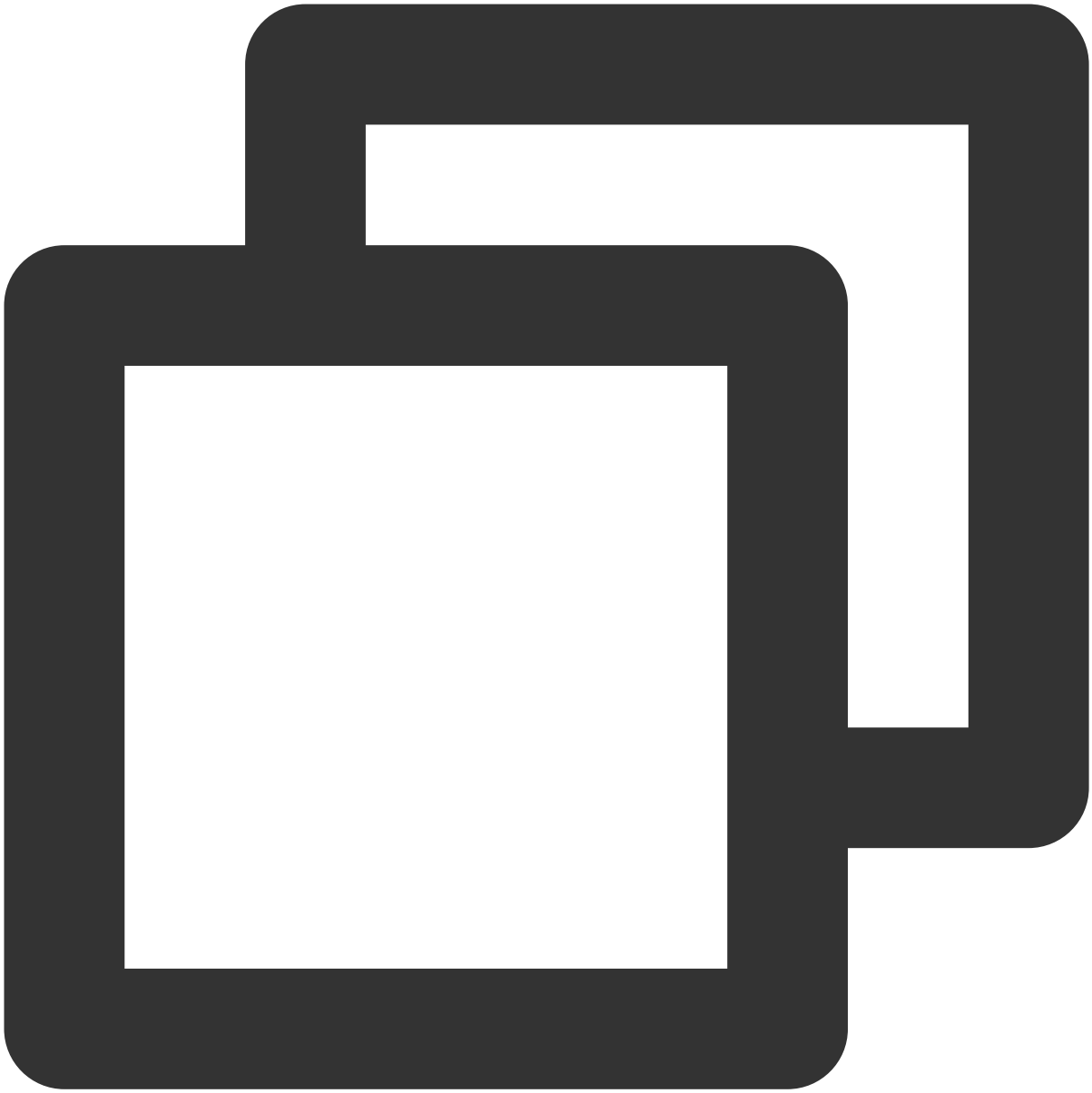

```
<?xml version="1.0" encoding="UTF-8" ?>
<Tagging>
  <TagSet>
    <Tag>
      <Key>string</Key>
      <Value>string</Value>
    </Tag>
  </TagSet>
</Tagging>
```

The nodes are described as follows:

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Node Name (Keyword)	Parent Node	Description	Type	Required
Tagging	None	Tagging configuration	Container	Yes
TagSet	Tagging	Tag set	Container	Yes
Tag	Tagging.TagSet	A single tag. Up to 10 tags are supported.	Containers	Yes
Key	Tagging.TagSet.Tag	Tag key, which can be up to 128 characters. A tag key can contain letters, digits, spaces, plus signs (+), minus signs (–), underscores (_), equals signs (=), dots (.), colons (:), and slashes (/).	String	Yes
Value	Tagging.TagSet.Tag	Tag value, which can be up to 256 characters. A tag value can contain letters, digits, spaces, plus signs (+), minus signs (–), underscores (_), equals signs (=), dots (.), colons (:), and slashes (/).	String	Yes

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body is empty.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Request

The following request adds the `{age:18}` and `{name:xiaoming}` tags to the `exampleobject.txt` object in the `examplebucket-1250000000` bucket. COS configures the tags and returns 200 (success).

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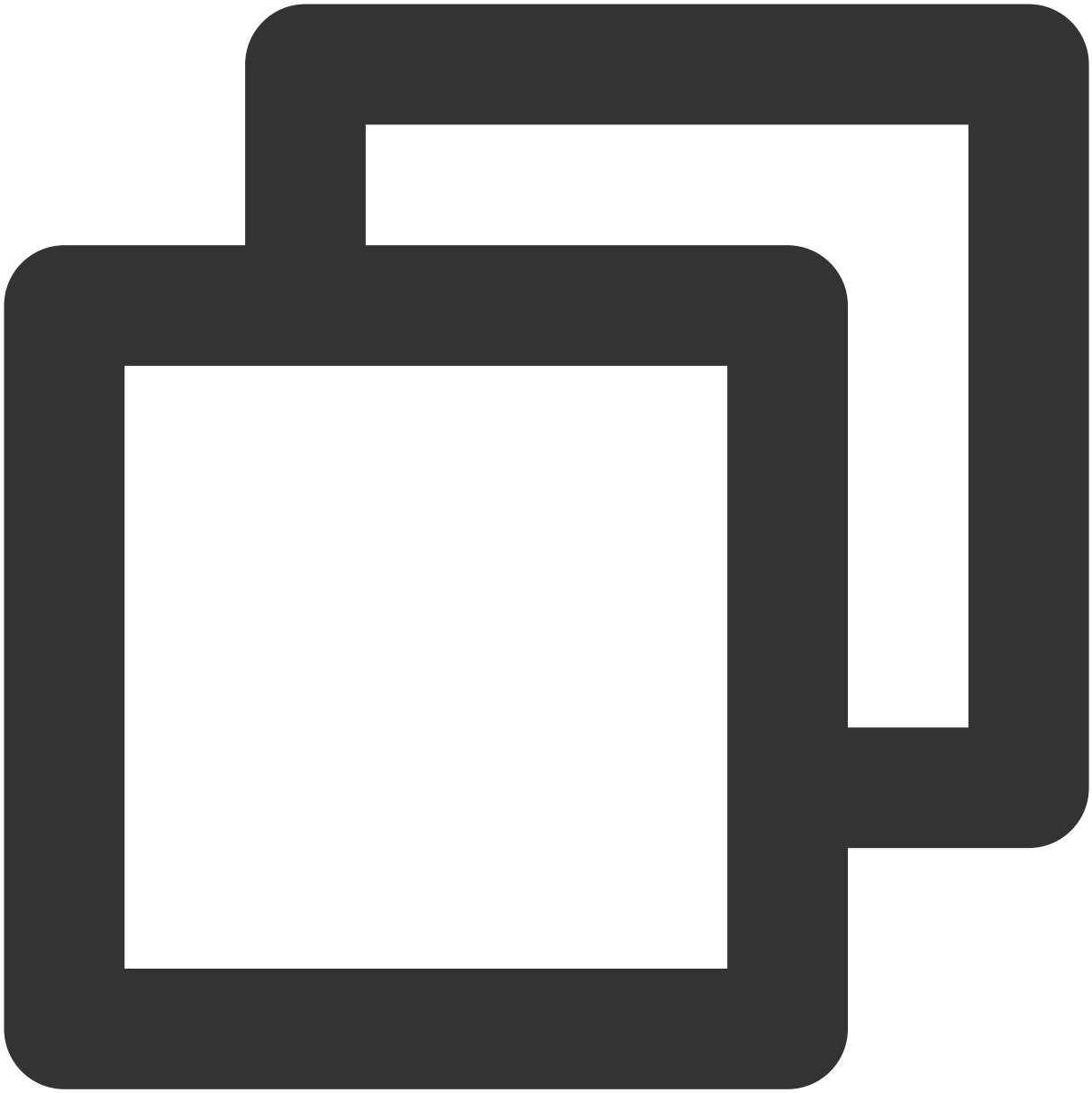

```
PUT /exampleobject.txt?tagging HTTP/1.1
User-Agent: curl/7.29.0
Accept: */*
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Authorization: Auth String
Content-Length: 127
Content-MD5:MD5 String
Content-Type: application/xml

<Tagging>
    <TagSet>
```

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```
        <Tag>
            <Key>age</Key>
            <Value>18</Value>
        </Tag>
        <Tag>
            <Key>name</Key>
            <Value>xiaoming</Value>
        </Tag>
    </TagSet>
</Tagging>
```

Response

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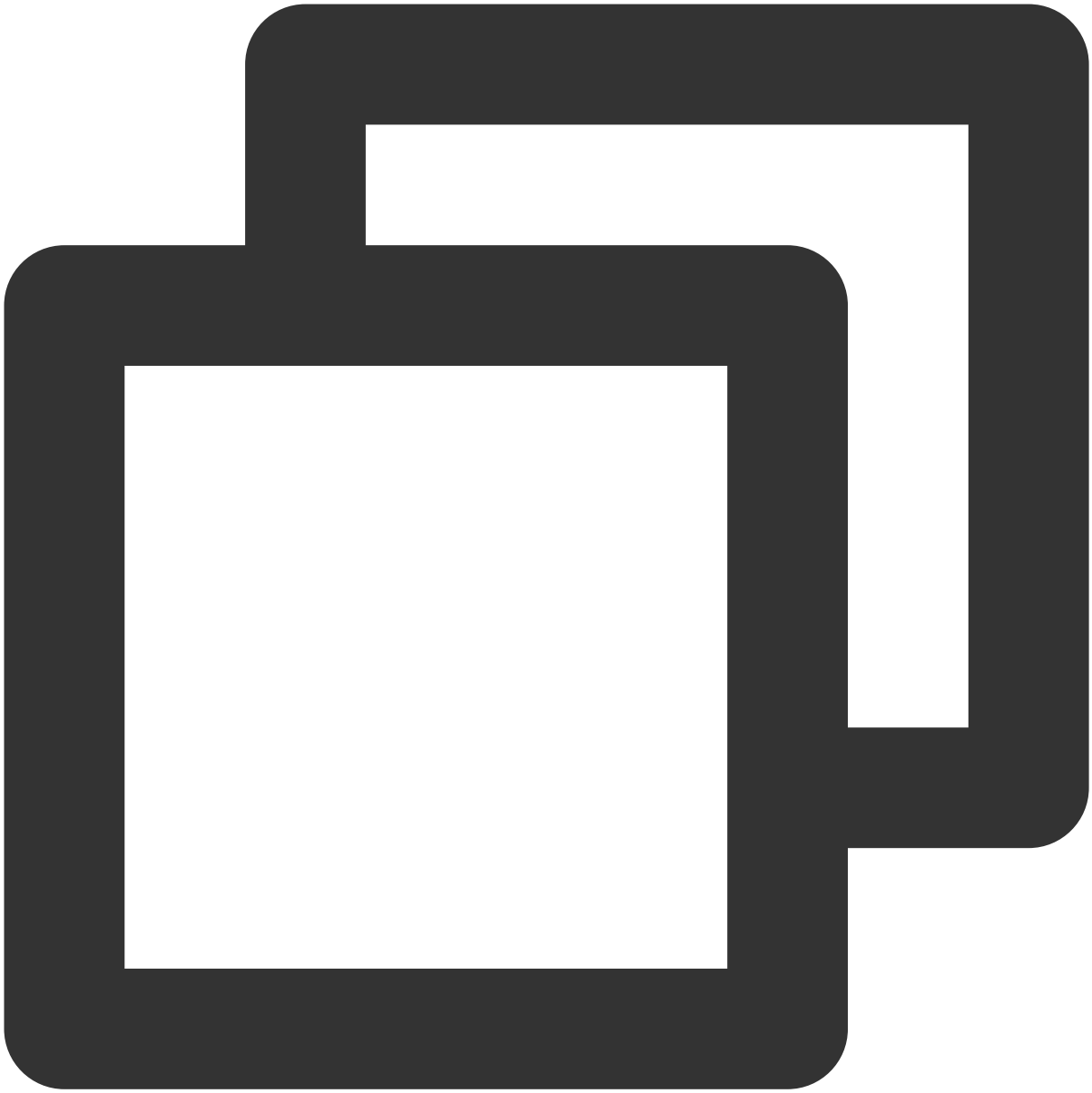

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 0
Connection: keep-alive
Date: Fri, 19 Jan 2020 11:40:22 GMT
Server: tencent-cos
x-cos-request-id: NWE2MWQ5MjZfMTBhYzM1MGFfMTA5ODVfMTVj****
```

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GET Object tagging

Last updated：2024-06-12 15:10:38

Overview

This API is used to query the existing tags of an object.
If a sub-account needs to call this API (`GET Object tagging`), ensure that the root account has authorized it to do so.

Versioning

If you have enabled versioning for the bucket and want to query the tags of an object of a specified version, include the `VersionId` parameter in the request.

Request

Sample request

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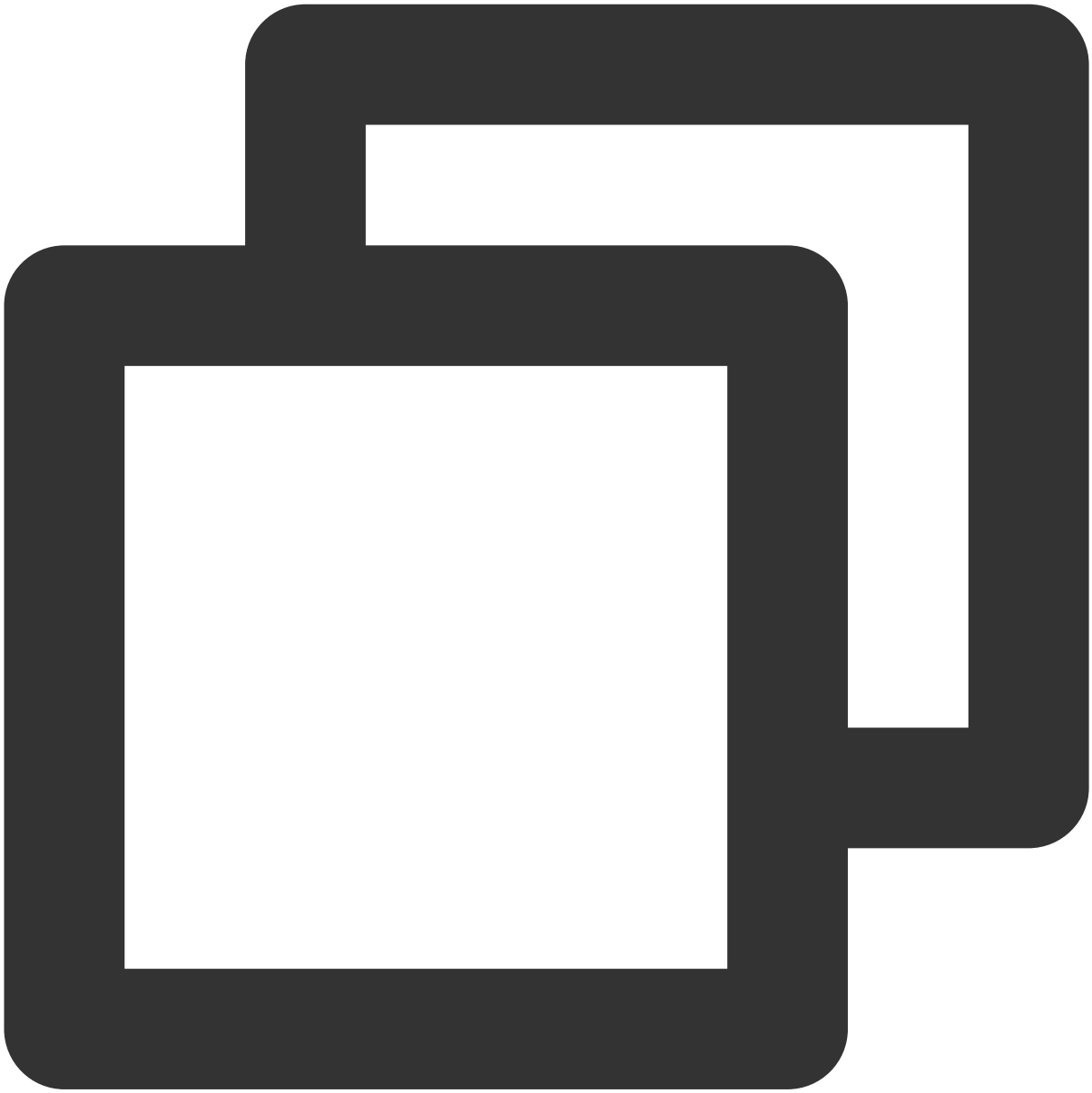

```
GET /<ObjectKey>?tagging&VersionId=VersionId HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request parameters

Parameter	Description	Type	Required
versionId	Version ID of the object (if versioning is enabled). If this parameter is not specified, the latest version will be queried.	string	No

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

The following describes the nodes of the response body returned for this request:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tagging	None	Tagging configuration	Container	Yes
TagSet	Tagging	Tag set	Container	Yes
Tag	Tagging.TagSet	A single tag. Up to 10 tags are supported.	Containers	Yes
Key	Tagging.TagSet.Tag	Tag key, which can be up to 128 characters. A tag key can contain letters, digits, spaces, plus signs (+), minus signs (–), underscores (_), equals signs (=), dots (.), colons (:), and slashes (/).	String	Yes
Value	Tagging.TagSet.Tag	Tag value, which can be up to 256 characters. A tag value can contain letters, digits, spaces, plus signs (+), minus signs	String	Yes

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		(–), underscores (_), equals signs (=), dots (.), colons (:), and slashes (/).		

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Sample

Request

The following example queries the tags of the `exampleobject.txt` object in the `examplebucket-1250000000` bucket. COS parses the request and returns the `{age:18}` and `{name:xiaoming}` tags.

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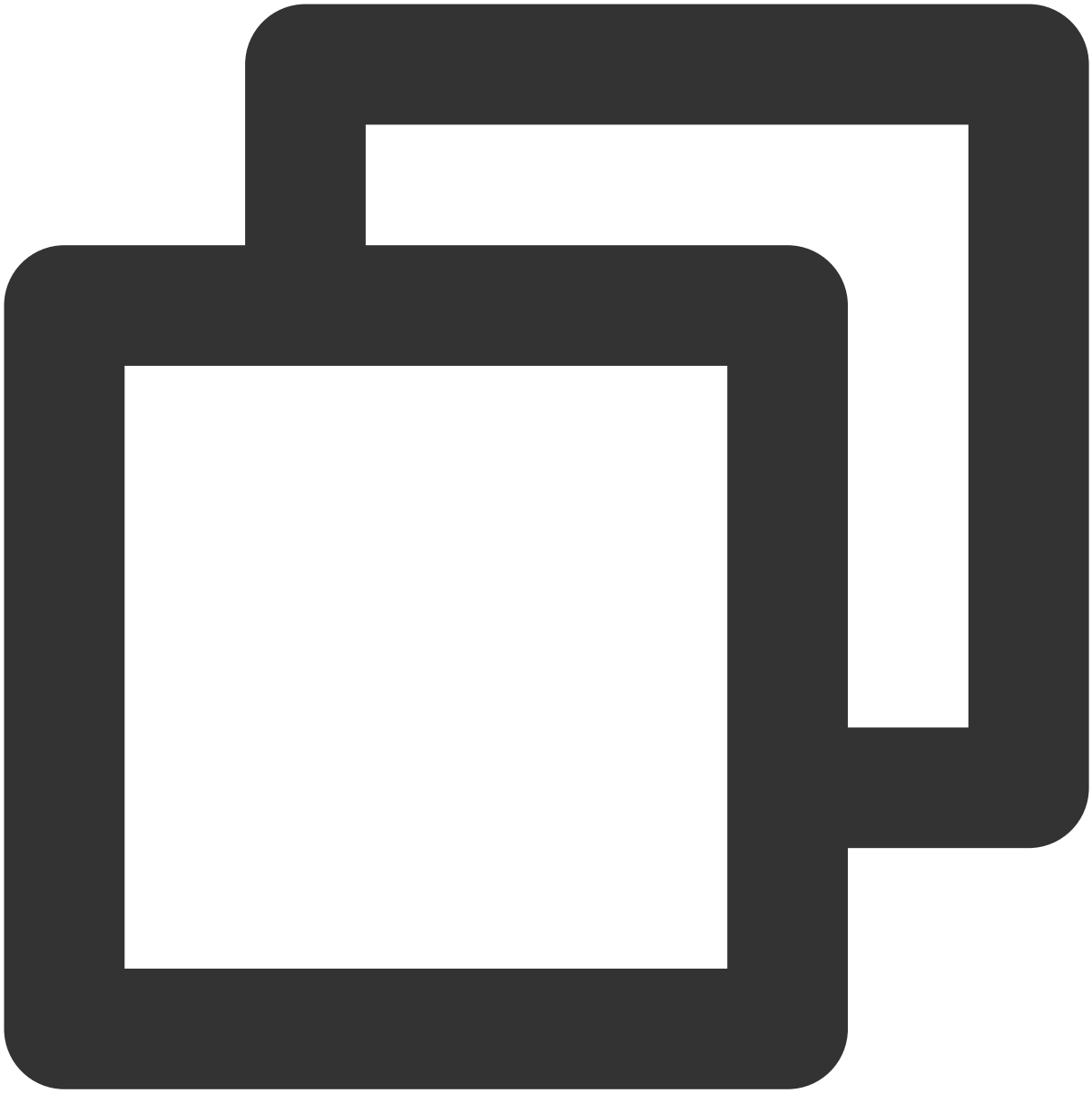

```
GET /exampleobject.txt?tagging HTTP/1.1
User-Agent: curl/7.29.0
Accept: */*
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Authorization: Auth String
Content-Md5: MD5 String
Content-Length: 127
Content-Type: application/xml
```

Response

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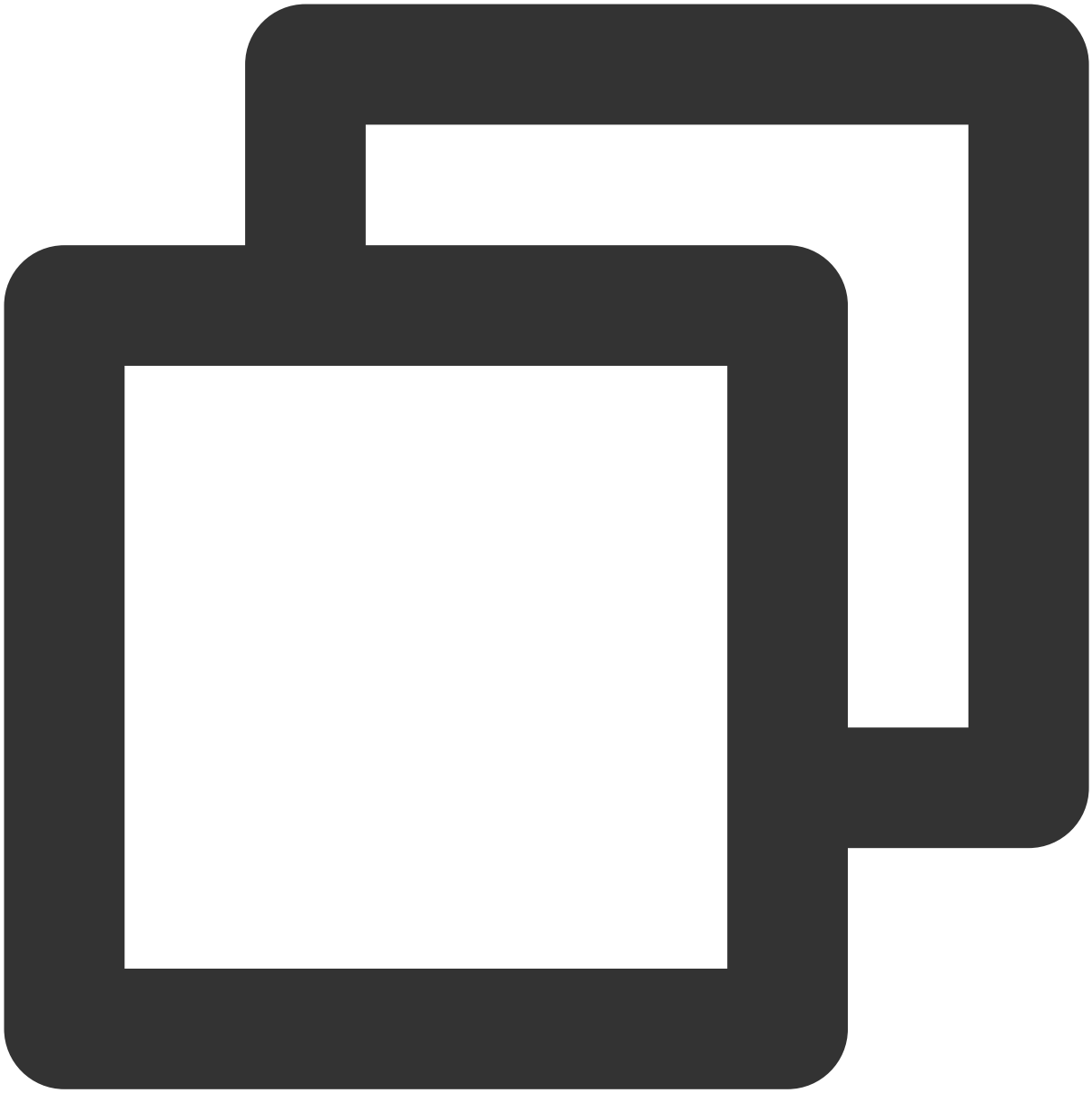

```
HTTP/1.1 200 OK
Content-Type: application/xml
Connection: close
Date: Fri, 19 Jan 2020 11:40:22 GMT
Server: tencent-cos
<Tagging>
    <TagSet>
        <Tag>
            <Key>age</Key>
            <Value>18</Value>
        </Tag>
```

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```
        <Tag>
            <Key>name</Key>
            <Value>xiaoming</Value>
        </Tag>
    </TagSet>
</Tagging>
```

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DELETE Object tagging

Last updated：2024-06-12 15:10:38

Overview

This API is used to delete existing tags of an object.

If a sub-account needs to call this API (`DELETE Object tagging`), ensure that the root account has authorized it to do so.

Versioning

If you have enabled versioning for the bucket and want to delete tags from an object of a specific version, include the `VersionId` parameter in the request.

Request

Sample request

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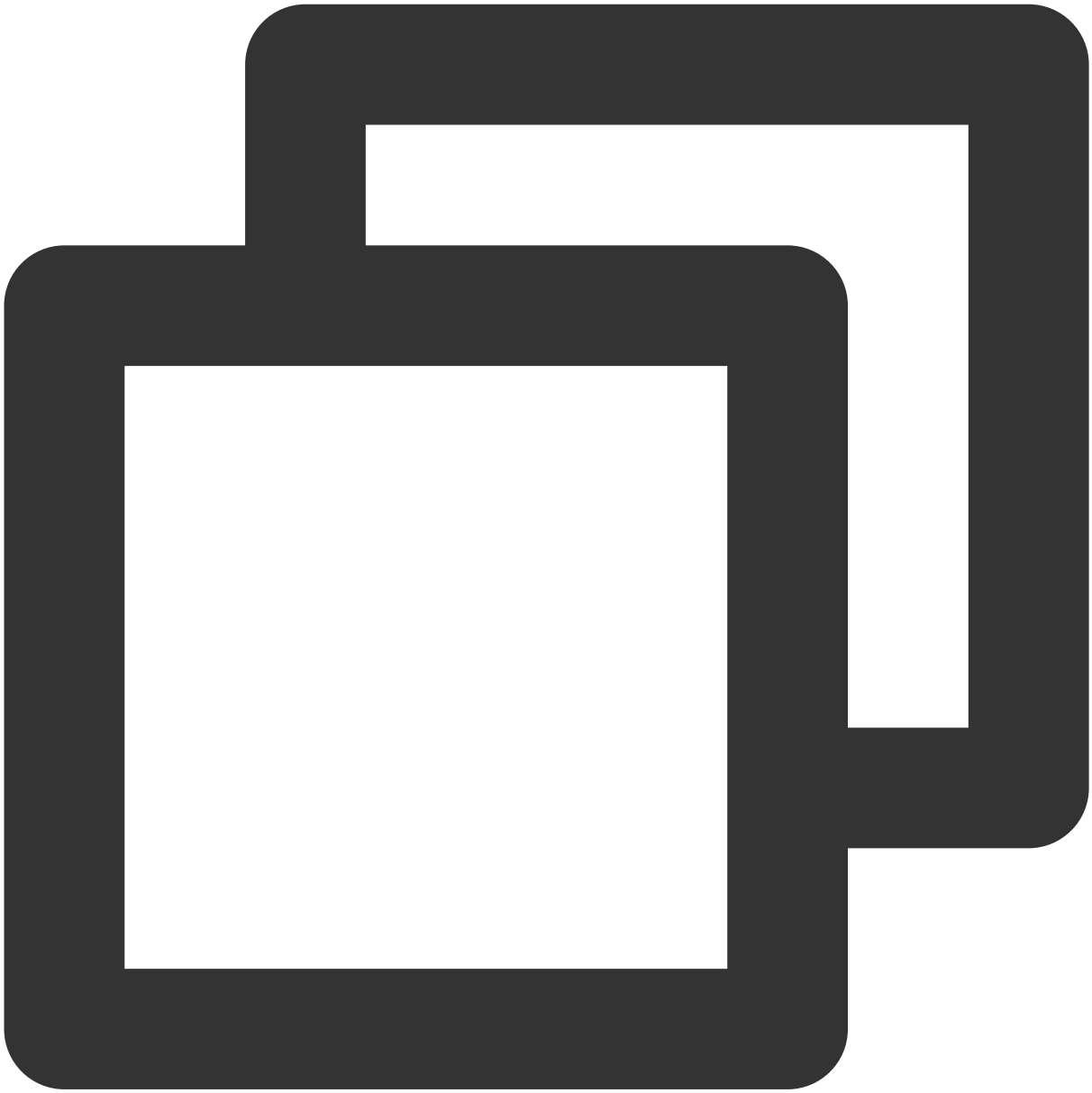

```
DELETE /<ObjecKey>?tagging&VersionId=VersionId HTTP 1.1
Host:<BucketName-APPID>.cos.<Region>.myqcloud.com
Date:date
Authorization: Auth String
```

Note:

Host:<BucketName-APPID>.cos.<Region>.myqcloud.com, where <BucketName-APPID> is the is the bucket name followed by the APPID, such as `examplebucket-1250000000` (see Bucket Overview > Basic Information and Bucket Overview > Bucket Naming Conventions), and <Region> is a COS region (see Regions and Access Endpoints).

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Authorization: Auth String (See Request Signature for details.)

Request parameters

Name	Description	Type	Required
versionId	Version ID of the object (if versioning is enabled). If this parameter is not specified, tags of the latest-version object will be deleted.	string	No

Request headers

This API only uses Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

No special response body is returned for this request.

Error codes

This API returns common error responses and error codes. For more information, please see Error Codes.

Samples

Sample 1: deleting object tags (with versioning disabled)

Request

The following example deletes all existing tags from the `exampleobject.txt` object in the `examplebucket-1250000000` bucket:

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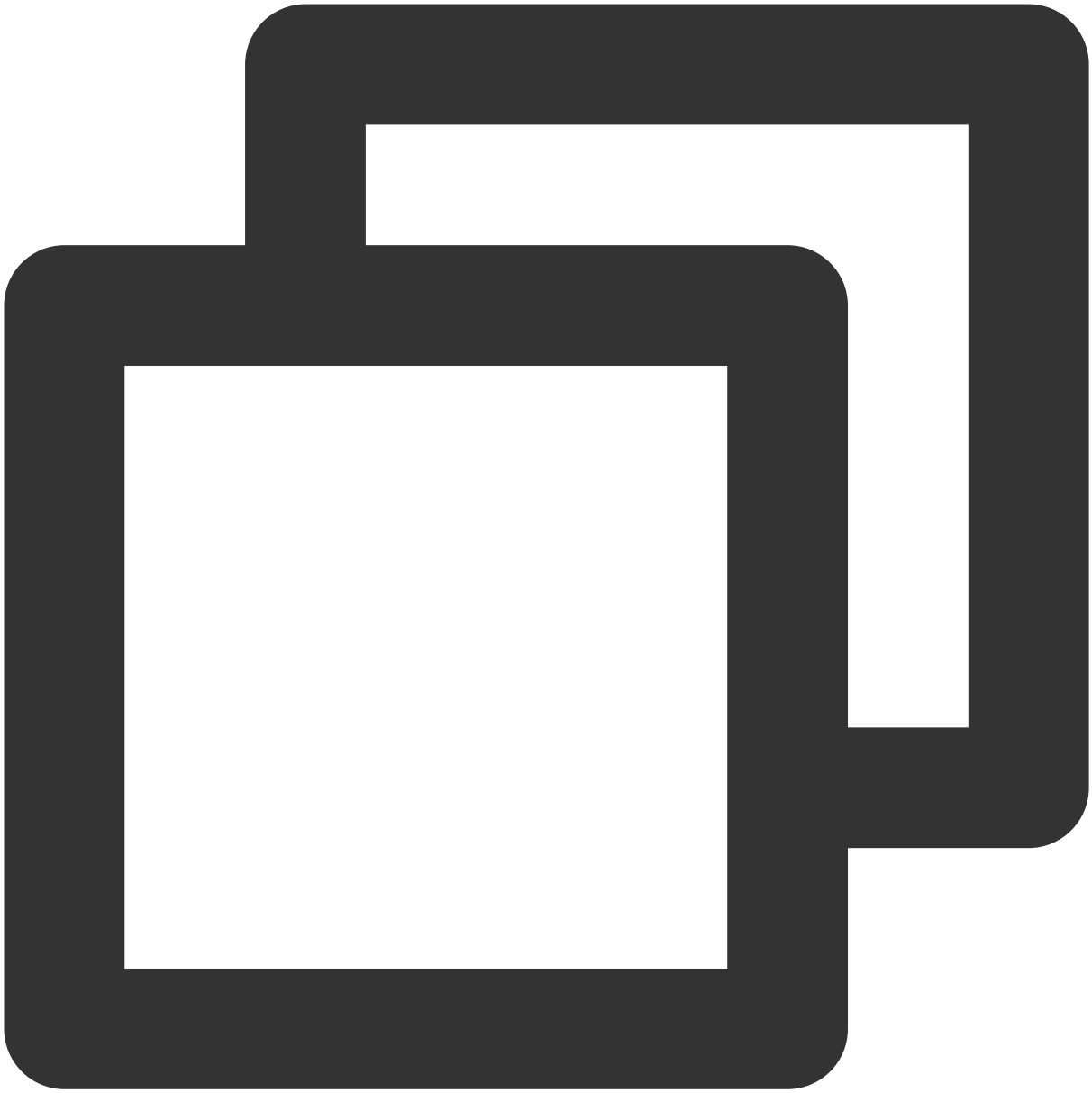

```
DELETE /exampleobject.txt?tagging HTTP/1.1
User-Agent: curl/7.29.0
Accept: */*
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Authorization: Auth String
Content-Length: 0
Content-Type: application/xml
```

Response

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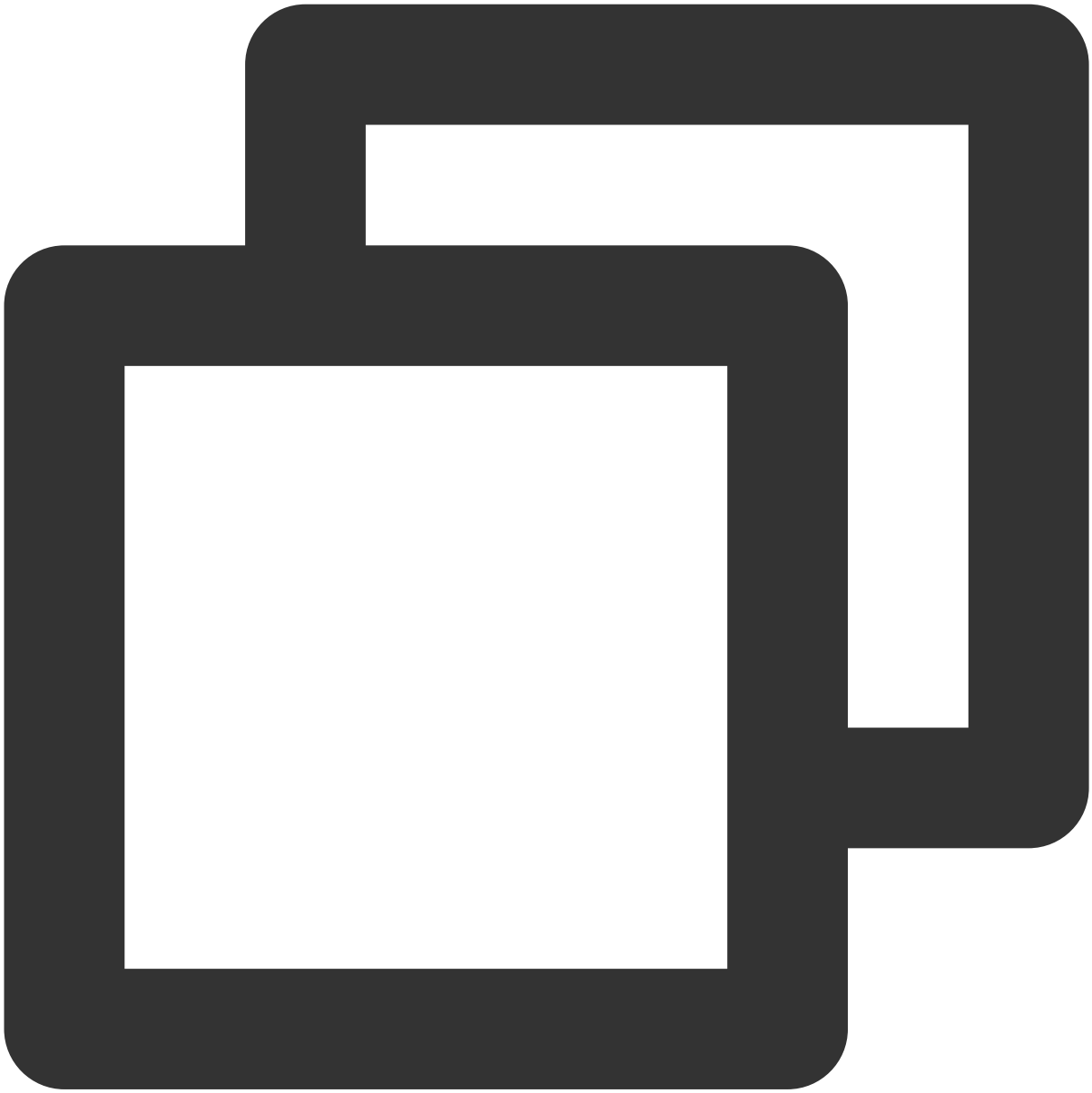

```
HTTP/1.1 204 No Content
Content-Type: application/xml
Connection: close
Date: Fri, 19 Jan 2020 11:40:22 GMT
```

Sample 2: deleting object tags (with versioning enabled)

Request

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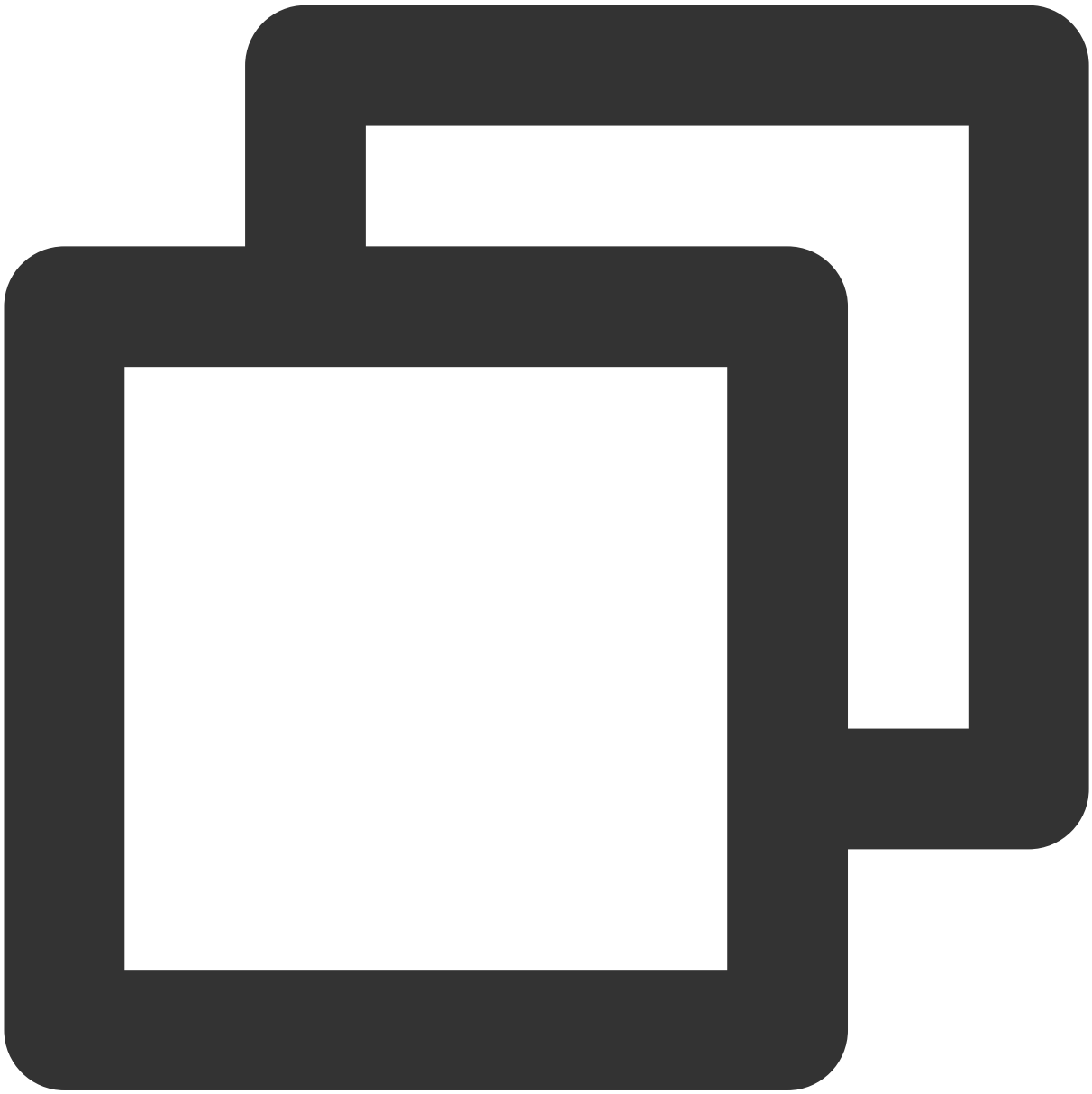
The following example deletes all existing tags from the `exampleobject.txt` object whose version ID is `MTg0NDUxNTgwODg2MTEzMTQyOTI` in the `examplebucket-1250000000` bucket:



```
DELETE /exampleobject.txt?tagging&VersionId=MTg0NDUxNTgwODg2MTEzMTQyOTI  HTTP/1.1
User-Agent: curl/7.29.0
Accept: */*
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Authorization: Auth String
Content-Length: 0
Content-Type: application/xml
```

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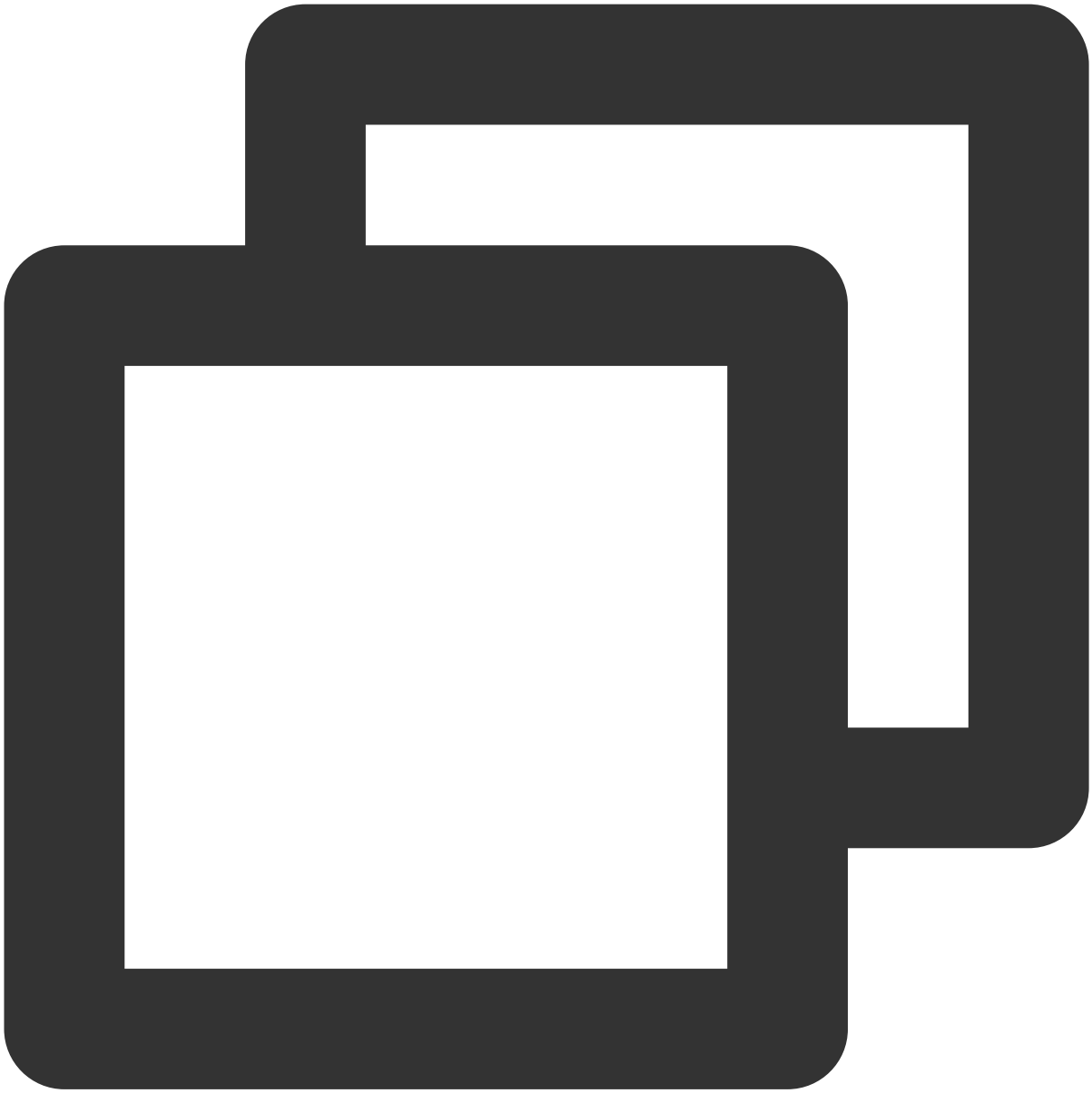
Response



```
HTTP/1.1 204 No Content
Content-Type: application/xml
Connection: close
Date: Fri, 19 Jan 2020 11:45:22 GMT
```

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Batch Operation APIs
CreateJob

Last updated：2024-06-12 15:20:05

API Description

This API is used to create a batch operation job in a bucket. For more information, please see Batch Processing Overview.
When calling this API, make sure you have permission to perform operations on the objects in the bucket. The bucket owner has permission by default and can grant such permission to other users. Please apply for permission from the bucket owner if you do not have it.

Request

Sample request

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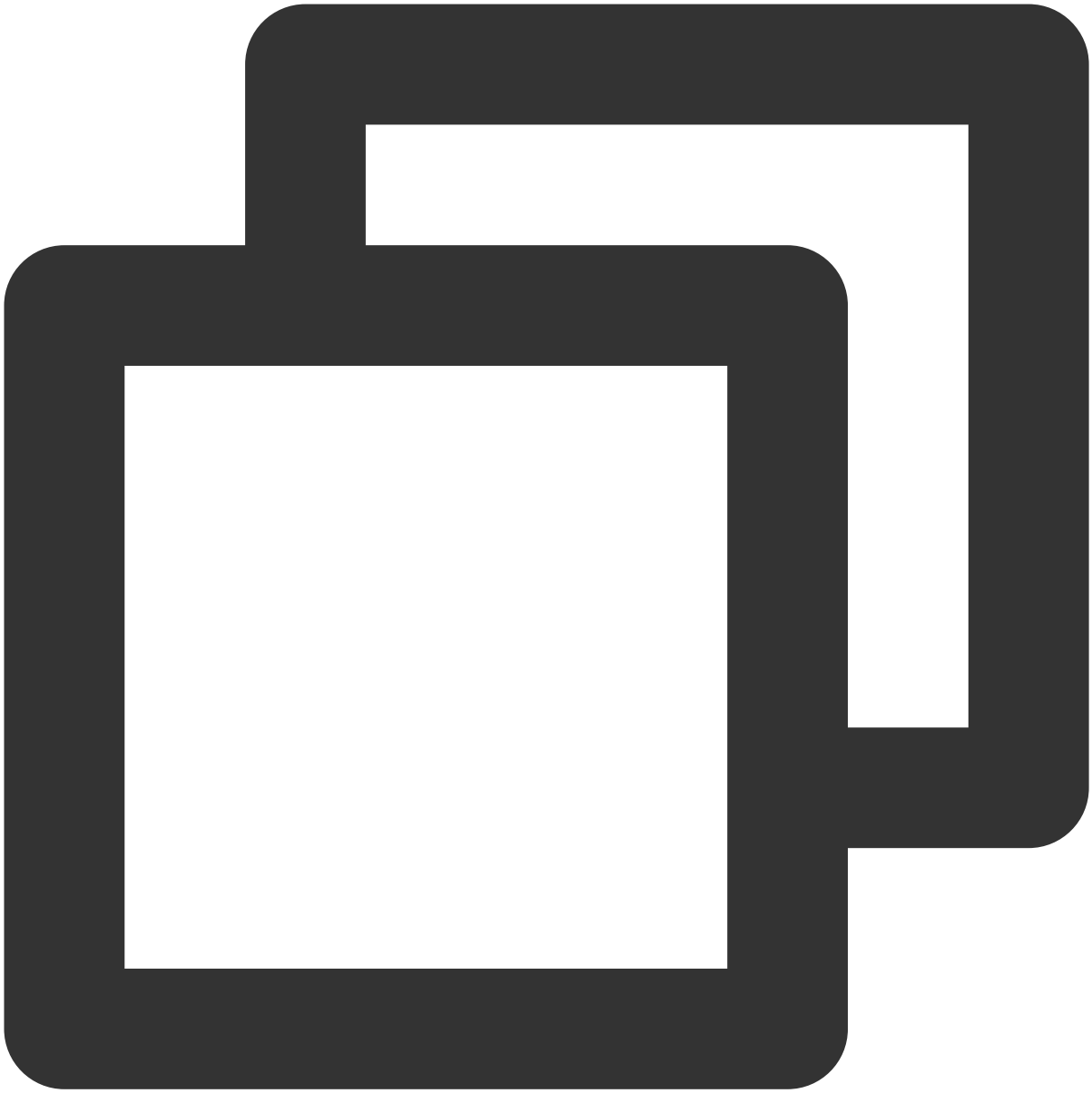

```
POST /jobs HTTP/1.1
Host: <UIN>.cos-control.<Region>.myqcloud.com
Date: GMT Date
Content-Type: application/xml
Content-Length: Content Length
Authorization: Auth String
x-cos-appid: <appid>

<?xml version="1.0" encoding="UTF-8"?>
<CreateJobRequest>
...
```

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```
</CreateJobRequest>
```

Note:

Authorization: Auth String (See Request Signature for details.)

Request fields

Calling the `CreateJob` API requires the following parameters:

Parameter	Description	Required
x-cos-appid	User APPID with a length of 1–64 bytes.	Yes

Request headers

This API only uses common request headers. For more information, please see Common Request Headers.

Request body

You can set the configuration for the inventory job in the request body by using the XML markup language. This information includes objects to be analyzed by the inventory job, the frequency and dimension of the analysis, and the format and storage location of the analysis result.

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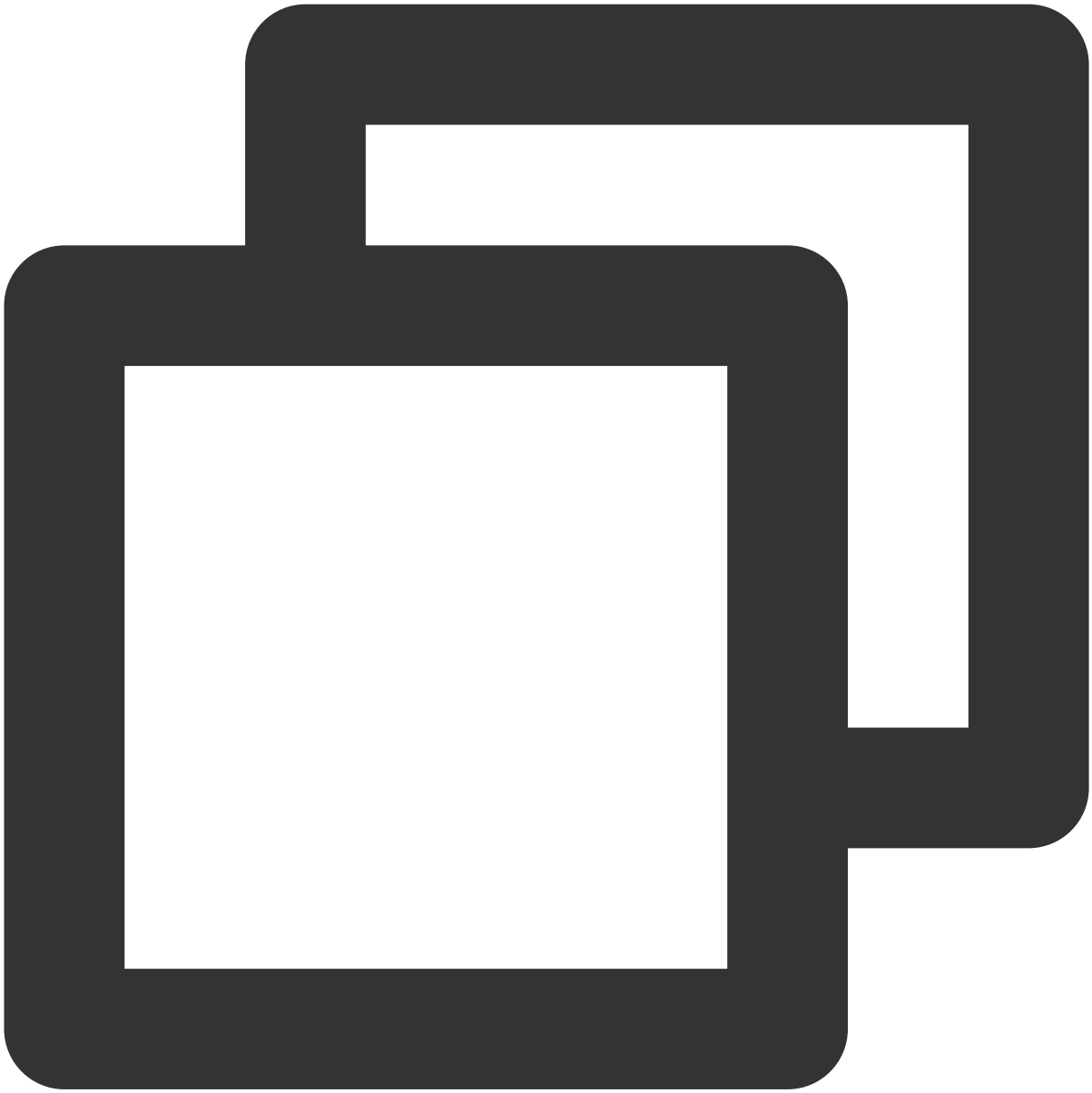

```
<CreateJobRequest>
    <ClientRequestToken>string</ClientRequestToken>
    <ConfirmationRequired>boolean</ConfirmationRequired>
    <Description>string</Description>
    <Manifest>
        <Location>
            <ETag>string</ETag>
            <ObjectArn>string</ObjectArn>
            <ObjectVersionId>string</ObjectVersionId>
        </Location>
        <Spec>
```

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```
            <Fields>
                <member>string</member>
                <member>string</member>
            </Fields>
            <Format>string</Format>
        </Spec>
    </Manifest>
    <Operation>
        <COSInitiateRestoreObject>
            <ExpirationInDays> integer </ExpirationInDays>
            <JobTier> string </JobTier>
        </COSInitiateRestoreObject>
        <COSPutObjectCopy>
            <AccessControlDirective>string</AccessControlDirective>
            <AccessControlGrants>
                <COSGrant>
                    <Grantee>
                        <Identifier>string</Identifier>
                        <TypeIdentifier>string</TypeIdentifier>
                    </Grantee>
                    <Permission>string</Permission>
                </COSGrant>
                <COSGrant>
                    <Grantee>
                        <Identifier>string</Identifier>
                        <TypeIdentifier>string</TypeIdentifier>
                    </Grantee>
                    <Permission>string</Permission>
                </COSGrant>
            </AccessControlGrants>
            <PrefixReplace>boolean</PrefixReplace>
            <ResourcesPrefix>string</ResourcesPrefix>
            <TargetKeyPrefix>string</TargetKeyPrefix>
            <CannedAccessControlList>string</CannedAccessControlList>
            <MetadataDirective>string</MetadataDirective>
            <ModifiedSinceConstraint>timestamp</ModifiedSinceConstraint>
            <UnModifiedSinceConstraint>timestamp</UnModifiedSinceConstraint>
            <MetadataDirective>string</MetadataDirective>
            <NewObjectMetadata>
                <CacheControl>string</CacheControl>
                <ContentDisposition>string</ContentDisposition>
                <ContentEncoding>string</ContentEncoding>
                <ContentType>string</ContentType>
                <HttpExpiresDate>timestamp</HttpExpiresDate>
                <SSEAlgorithm>string</SSEAlgorithm>
                <UserMetadata>
                    <member>
```

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```
                        <Key>string</Key>
                        <Value>string</Value>
                    </member>
                    <member>
                        <Key>string</Key>
                        <Value>string</Value>
                    </member>
                </UserMetadata>
            </NewObjectMetadata>
            <TaggingDirective>string</TaggingDirective>
            <NewObjectTagging>
                <COSTag>
                    <Key>string</Key>
                    <Value>string</Value>
                </COSTag>
            </NewObjectTagging>
            <StorageClass>string</StorageClass>
            <TargetResource>string</TargetResource>
        </COSPutObjectCopy>
    </Operation>
    <Priority>integer</Priority>
    <Report>
        <Bucket>string</Bucket>
        <Enabled>boolean</Enabled>
        <Format>string</Format>
        <Prefix>string</Prefix>
        <ReportScope>string</ReportScope>
    </Report>
    <RoleArn>string</RoleArn>
</CreateJobRequest>
```

For other elements, see Common Elements.

Node Name	Parent Node	Description	Type	Required
ClientRequestToken	CreateJobRequest	Token unique to each request; it prevents the frontend from initiating the same batch operation job multiple times. The token can be 1–64 bytes long, and a UUID is recommended	String	Yes
ConfirmationRequired	CreateJobRequest	Specifies whether confirmation is required before a job is executed. Default value: `false` .	Boolean	No
Description	CreateJobRequest	Job description with a length of 0–	String	No

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		256 bytes. This parameter will be returned if it is configured when the job is created		
Manifest	CreateJobRequest	Inventory of the objects to be processed. These objects must be recorded in the object inventory. You can use Enabling Inventory to generate a file inventory.	Manifest Object	Yes
Operation	CreateJobRequest	Specifies the operation to perform on the objects in the file inventory. COS currently supports operations such as copying objects in batches and restoring archived objects in batches, and you can process the inventory data in the bucket accordingly.	Operation Object	Yes
Priority	CreateJobRequest	Job priority. The higher the value, the higher the priority. Value range: 0–2147483647	Integer	Yes
Report	CreateJobRequest	Job report. You can configure this parameter to output a report upon job completion to evaluate the job execution	Report Object	Yes
RoleArn	CreateJobRequest	COS resource ID used to identify the role you have created, required for identity verification	String	Yes

Response

Response header

This API returns only common response headers. For more information, please see Common Response Headers.

Response body

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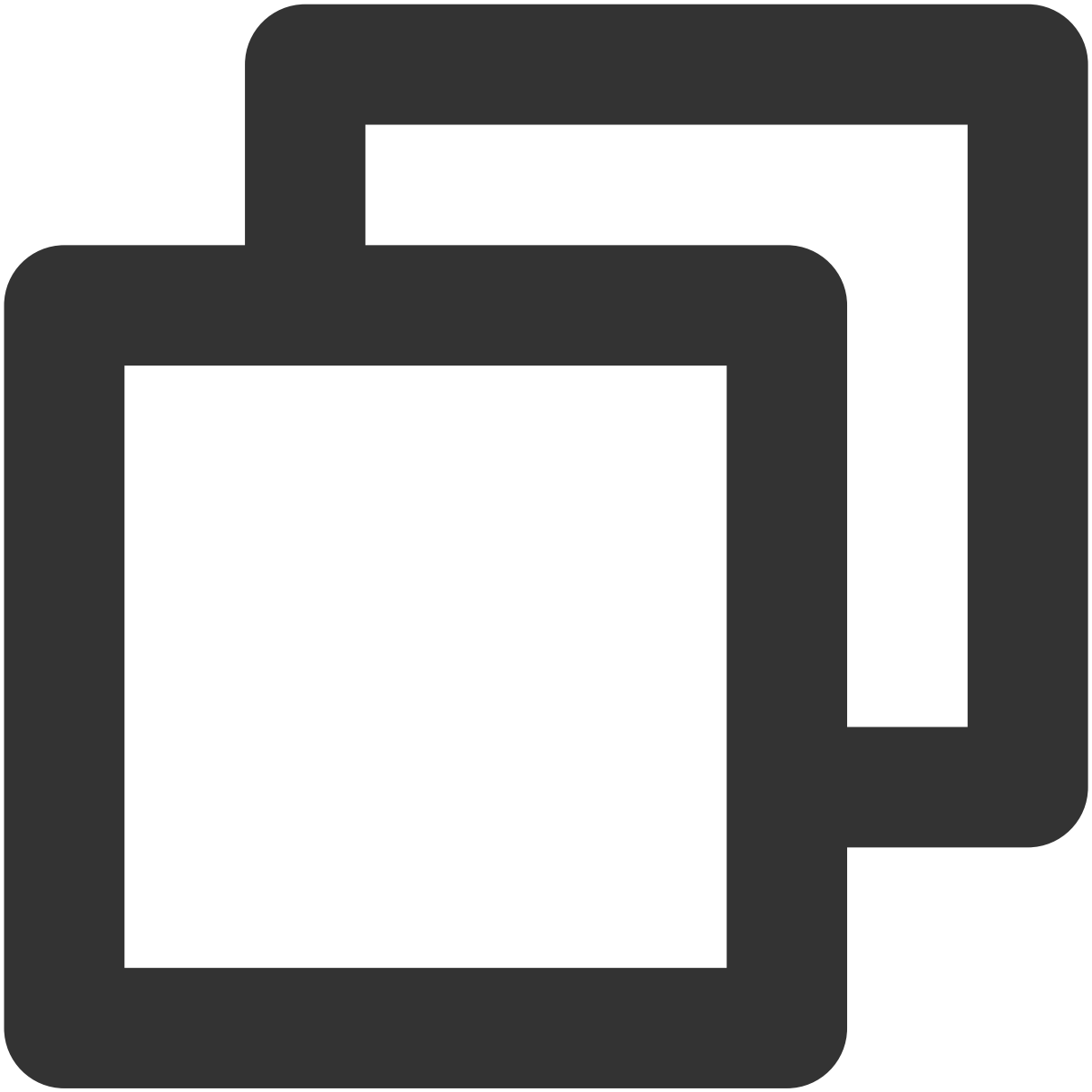

```
<CreateJobResult>
   <JobId>string</JobId>
</CreateJobResult>
```

The nodes are described as follows:

Node Name	Parent Node	Description	Type
JobId	CreateJobResult	Job ID. This value is automatically returned by COS after a job is created successfully. Length: 1–64 bytes	String

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Error codes

This request operation may return the following error messages. For other error information, please see Error Response.

Error Code	Description	Status Code	API
InvalidRequest	Duplicate request	400	CreateJob
InvalidRequest	Priority must be an integer between 0 and 2147483647	400	CreateJob
MalformedXML	The `XML Manifest` field in the request body does not conform to XML syntax	400	CreateJob
MalformedXML	The `XML Operation` field in the request body does not conform to XML syntax	400	CreateJob
MalformedXML	The `XML Report` field in the request body does not conform to XML syntax	400	CreateJob
ServiceUnavailable	Unable to create a job as the service is temporarily unavailable	500	CreateJob
TooManyJobs	The number of jobs has reached the upper limit, making the server unavailable	500	CreateJob

Use Cases

Request

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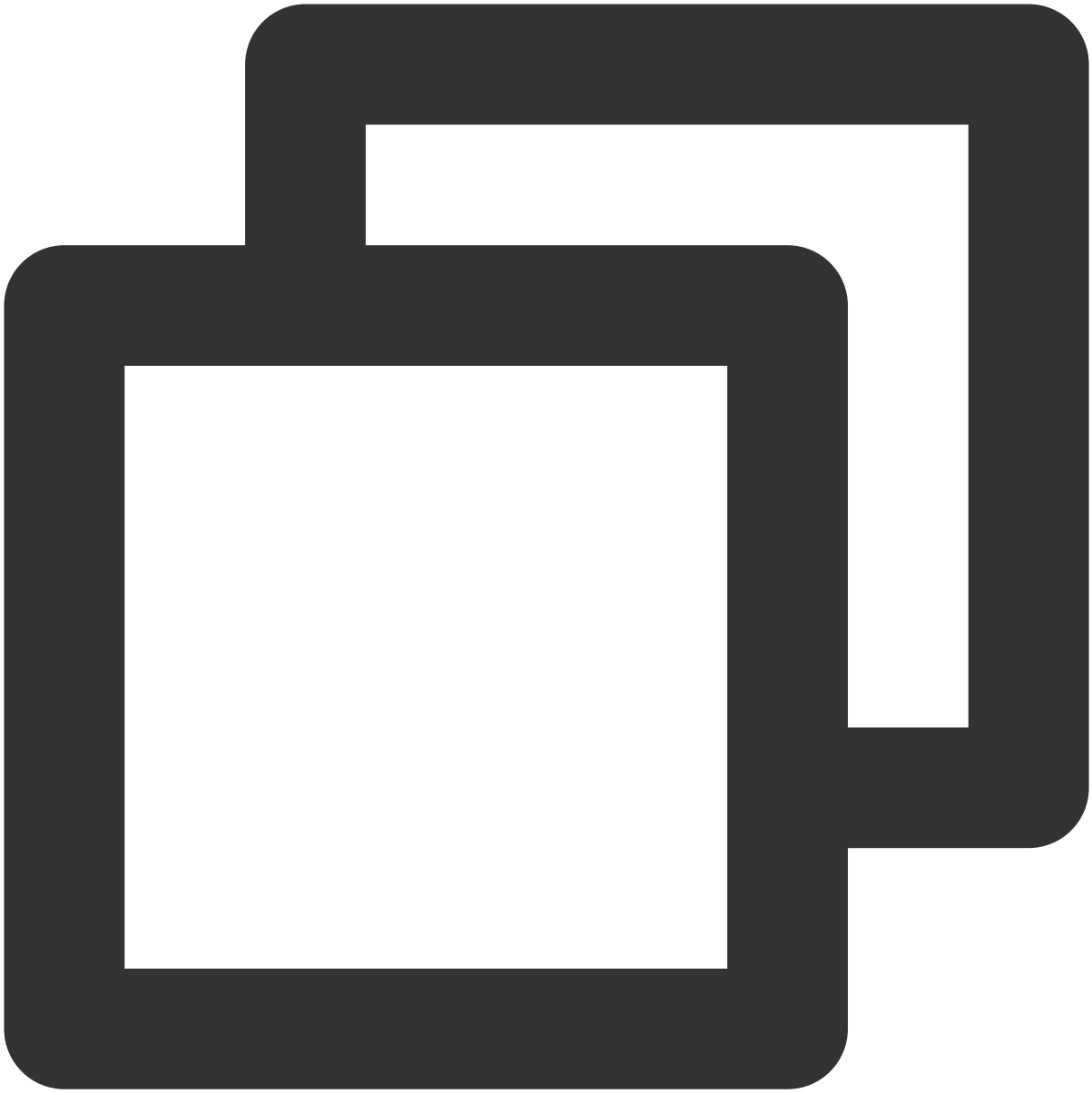

```
POST /jobs HTTP/1.1
Host: 100000000001.cos-control.ap-chengdu.myqcloud.com
Date: Thu, 19 Dec 2019 18:00:29 GMT
x-cos-appid: 1250000000
Content-Type: application/xml
Content-Length: 1056
Content-MD5: hHcgq5mu8s0YP4WTGiQ+uA==
Authorization: q-sign-algorithm=sha1&q-ak=AKID8A0fBVtYFrNm02oY1g1JQQF0c3JO****&q-si
Connection: close

<CreateJobRequest>
```

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```
    <ClientRequestToken>184ce261-18af-5e3d-3e30-253723cfd937</ClientRequestToken>
    <ConfirmationRequired>false</ConfirmationRequired>
    <Description>example-job</Description>
    <Manifest>
        <Location>
            <ETag>"15150651828fa9cdcb8356b6d1c7638b"</ETag>
            <ObjectArn>qcs::cos:ap-chengdu::sourcebucket-1250000000/manifests/batch
        </Location>
        <Spec>
            <Fields>
                <member>Bucket</member>
                <member>Key</member>
            </Fields>
            <Format>COSBatchOperations_CSV_V1</Format>
        </Spec>
    </Manifest>
    <Operation>
        <COSPutObjectCopy>
            <TargetResource>qcs::cos:ap-chengdu:uid/1250000000:destinationbucket-12
        </COSPutObjectCopy>
    </Operation>
    <Priority>10</Priority>
    <Report>
        <Bucket>qcs::cos:ap-chengdu::sourcebucket-1250000000</Bucket>
        <Enabled>true</Enabled>
        <Format>Report_CSV_V1</Format>
        <Prefix>job-result</Prefix>
        <ReportScope>AllTasks</ReportScope>
    </Report>
    <RoleArn>qcs::cam::uin/100000000001:roleName/COS_Batch_QcsRole</RoleArn>
</CreateJobRequest>
```

Response

After the above request is made, COS will return the following response, indicating that the inventory job has been successfully configured.

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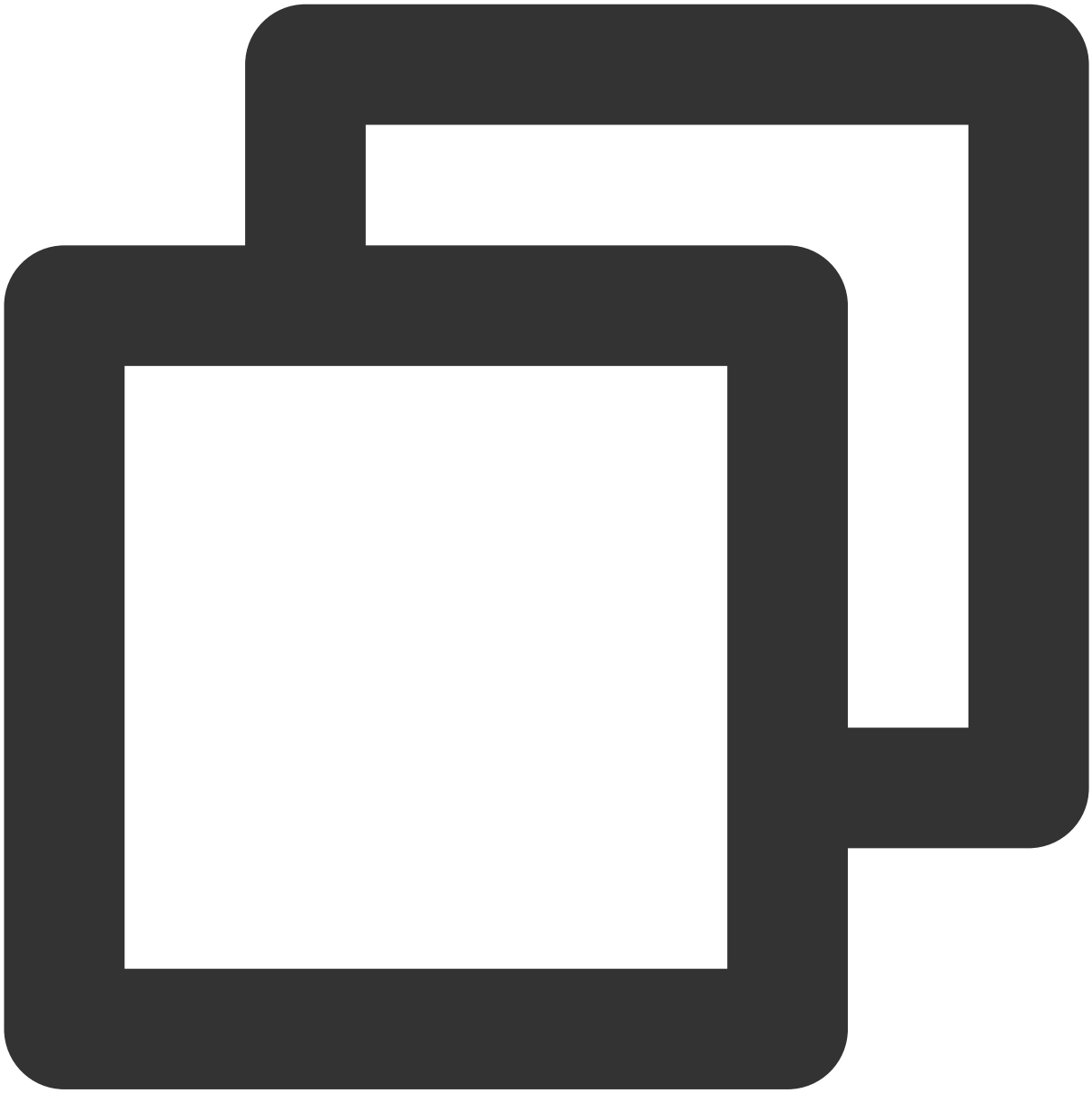

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 89
Connection: close
Date: Thu, 19 Dec 2019 18:00:30 GMT
Server: tencent-cos
x-cos-request-id: NWRmYmJhYmRfMjViMjU4NjRfNmIzYV8xMDE2****

<CreateJobResult>
    <JobId>53dc6228-c50b-46f7-8ad7-65e7159f1aae</JobId>
</CreateJobResult>
```

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DescribeJob

Last updated：2024-06-12 15:20:05

Feature Description

This API is used to get the parameters of a batch operation job and the job status. For more information, please see Batch Operation Overview.

Request

Sample Request

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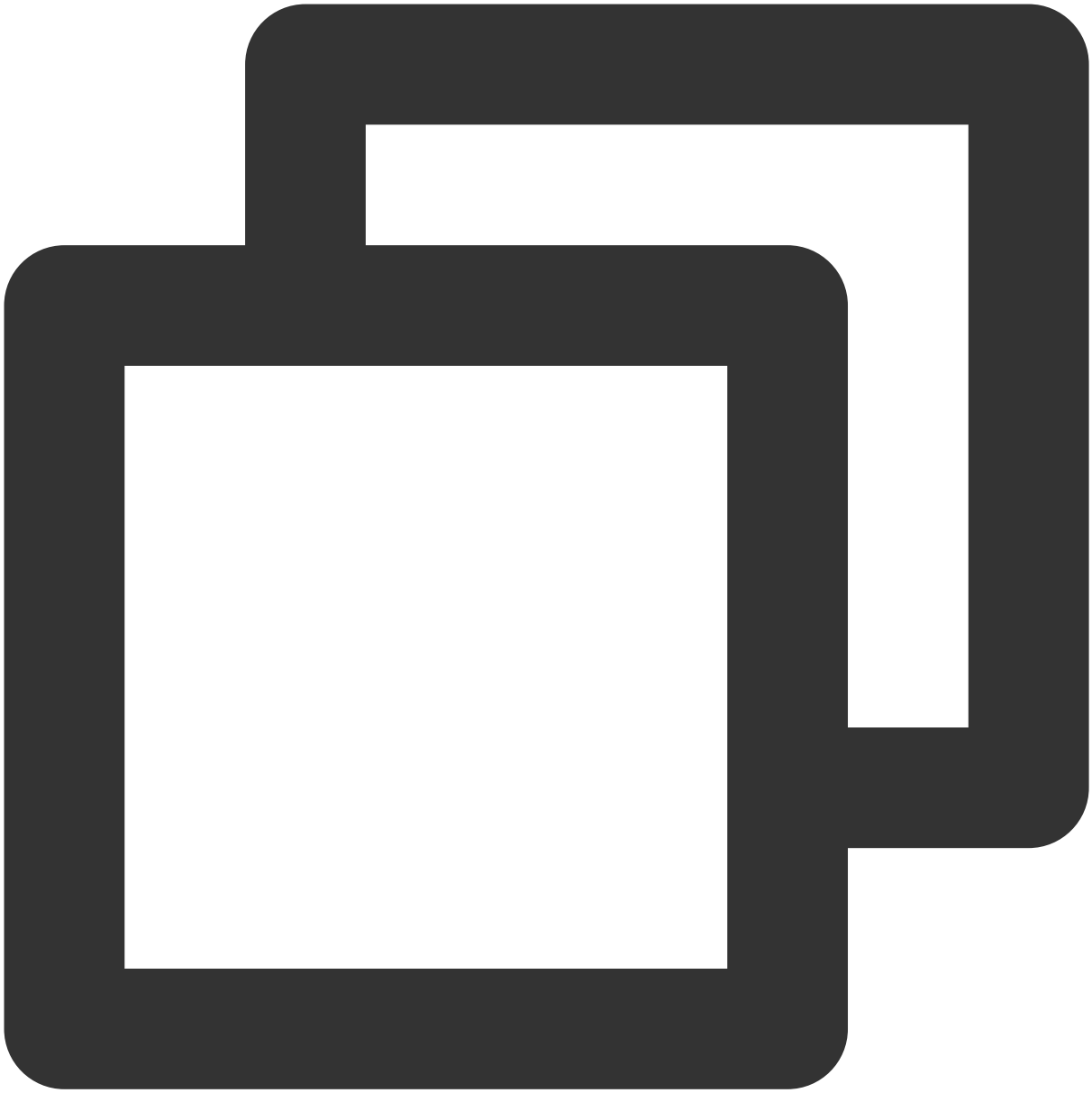

```
GET /jobs/<JobId> HTTP/1.1
x-cos-appid: <appid>
```

Request Parameters

Calling the `DescribeJob` API requires the following parameters:

Parameter	Description	Required
JobId	Job ID.	Yes
x-cos-appid	User APPID with a length of 1–64 bytes.	Yes

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Request Headers

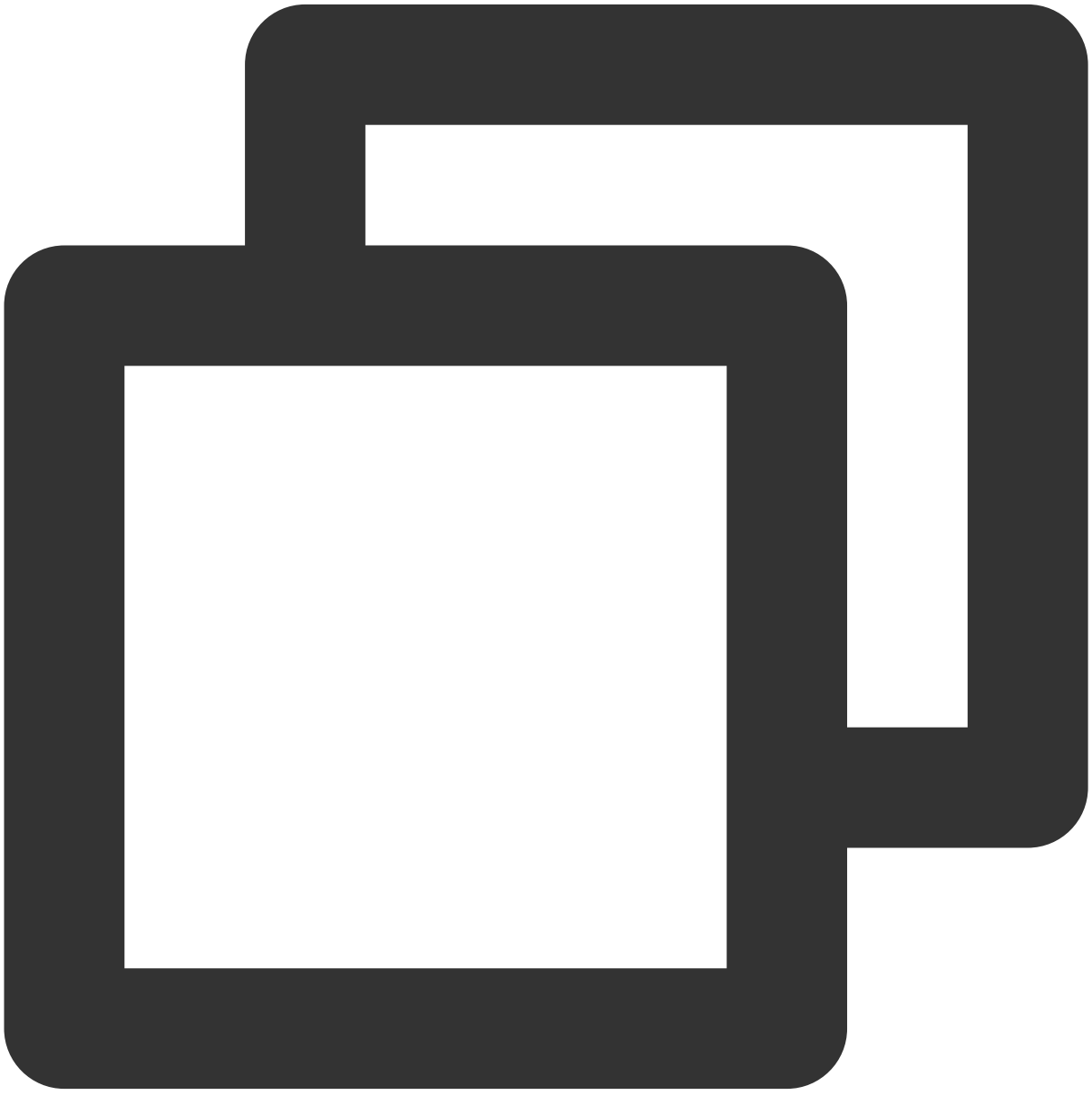
This API only uses common request headers. For more information, see Common Request Headers.

Request Body

This request does not have a request body.

Response

Sample Response



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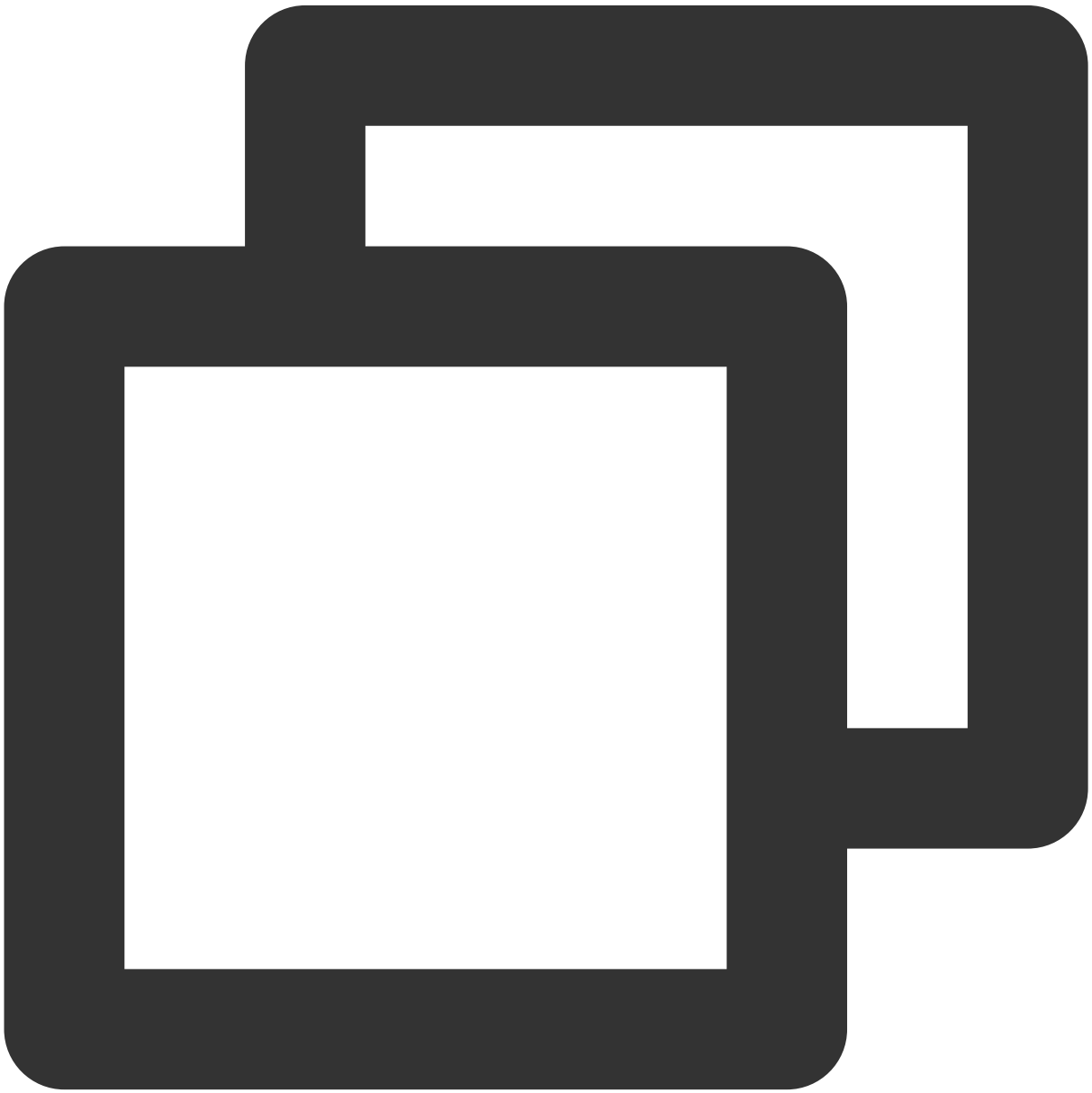
```
HTTP/1.1 200
<DescribeJobResult>
...
</DescribeJobResult>
```

Response Headers

This API only returns common response headers. For more information, see Common Response Headers.

Response Body



```
<DescribeJobResult>
```

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```
    <Job>
        <ConfirmationRequired>boolean</ConfirmationRequired>
        <CreationTime>timestamp</CreationTime>
        <Description>string</Description>
        <FailureReasons>
            <JobFailure>
                <FailureCode>string</FailureCode>
                <FailureReason>string</FailureReason>
            </JobFailure>
        </FailureReasons>
        <JobId>string</JobId>
        <Manifest>
            <Location>
                <ETag>string</ETag>
                <ObjectArn>string</ObjectArn>
            </Location>
            <Spec>
                <Format>string</Format>
            </Spec>
        </Manifest>
        <Operation>
            <COSPutObjectCopy>
                <CannedAccessControlList>string</CannedAccessControlList>
                <MetadataDirective>string</MetadataDirective>
                <NewObjectMetadata>
                    <SSEAlgorithm>string</SSEAlgorithm>
                    <UserMetadata>
                        <member>
                            <Key>string</Key>
                            <Value>string</Value>
                        </member>
                        <member>
                            <Key>string</Key>
                            <Value>string</Value>
                        </member>
                    </UserMetadata>
                </NewObjectMetadata>
                <StorageClass>string</StorageClass>
                <TargetResource>string</TargetResource>
            </COSPutObjectCopy>
        </Operation>
        <Priority>integer</Priority>
        <ProgressSummary>
            <NumberOfTasksFailed>integer</NumberOfTasksFailed>
            <NumberOfTasksSucceeded>integer</NumberOfTasksSucceeded>
            <TotalNumberOfTasks>integer</TotalNumberOfTasks>
        </ProgressSummary>
```

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```
        <Report>
            <Bucket>string</Bucket>
            <Enabled>boolean</Enabled>
            <Format>string</Format>
            <Prefix>string</Prefix>
            <ReportScope>string</ReportScope>
        </Report>
        <RoleArn>string</RoleArn>
        <Status>string</Status>
        <StatusUpdateReason>string</StatusUpdateReason>
        <SuspendedCause>string</SuspendedCause>
        <SuspendedDate>timestamp</SuspendedDate>
        <TerminationDate>timestamp</TerminationDate>
    </Job>
</DescribeJobResult>
```

The content is described in detail as below:

DescribeJobResult

This node includes the parameters and status information of the specified batch operation job.

Node Name	Parent Node	Description	Type
Job	DescribeJobResult	Parameters and status information of the specified batch operation job.	Job Object

Job

Node Name	Parent Node	Description	Type
ClientRequestToken	Job	Token unique to each request, which can prevent the frontend from initiating one batch operation job multiple times. The token can be 1–64 bytes long, and a UUID is recommended.	String
CreationTime	Job	Job creation time.	Timestamp
Description	Job	Job description; 1–256 bytes long. This parameter will be returned if it is configured when the job is created.	String
FailureReasons	Job	Describes the failure reason if a job fails.	FailureReasons Object
JobId	Job	Job ID generated after the job is successfully created; length: 1–64 bytes.	String

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Manifest	Job	Inventory of the objects to be processed. You need to record the objects you want to process in the inventory.	Manifest Object
Operation	Job	Operation to be performed on the objects in the inventory.	Operation Object
Priority	Job	Job priority. The higher the value, the higher the priority. Value range: 0–2,147,483,647.	Integer
ProgressSummary	Job	Overview of job execution, which describes how many operations were performed in the job, how many succeeded, and how many failed.	ProgressSummary Object
Report	Job	Specifies configurations for an inventory report.	Report Object
RoleArn	Job	Identifier of the role assigned to the job; length: 1–1024 bytes.	String
Status	Job	Job status. Valid values: Active, Cancelled, Cancelling, Complete, Completing, Failed, Failing, New, Paused, Pausing, Preparing, Ready, Suspended.	String
StatusUpdateReason	Job	Reason for a status update; length: 0–256 bytes.	String
SuspendedCause	Job	Cause of job suspension. A job is suspended when you are creating it in the console; it will only be carried out after your confirmation. The value of this parameter can be 0–1,024 bytes long.	String
SuspendedDate	Job	Time when the job is suspended; the time will be recorded upon job suspension	Timestamp
TerminationDate	Job	Job end time.	Timestamp

FailureReasons

Node Name	Parent Node	Description	Type
JobFailure	FailureReasons	Job failure code and cause.	JobFailure Object

FailureCode

Node Name	Parent Node	Description	Type
FailureCode	JobFailure	Job failure code; length: 0–64 bytes.	String

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FailureReason	JobFailure	Cause of job failure; length: 0–256 bytes.	String

For other elements, see CommonElements.

Error Codes

The following describes some frequent special errors that may occur when you make this request. For other errors, see ErrorResponse.

Error Code	Description	Status Code	API
NoSuchJob	The specified job does not exist	404	DescribeJob

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ListJobs

Last updated：2024-06-12 15:20:05

Feature Description

This API is used to list your batch operation jobs. For more information on batch operation, please see Batch Operation Overview.

Request

Sample Request

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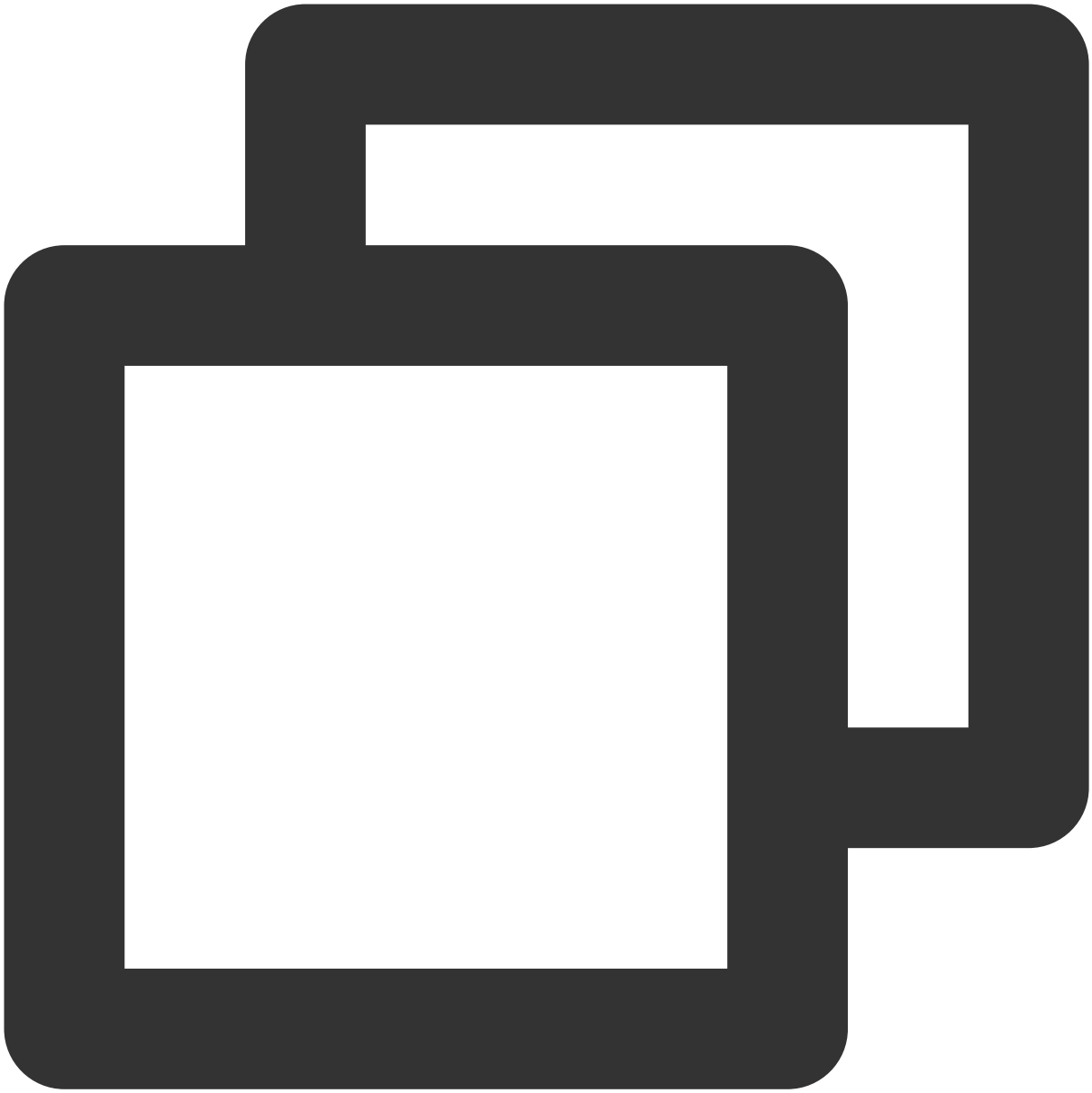

```
GET /jobs?jobStatuses=<JobStatuses>&maxResults=<MaxResults>&nextToken=<NextToken> H
x-cos-appid: <appid>
```

Request Parameters

Calling the `ListJobs` API requires the following parameters:

Parameter	Description	Required
jobStatuses	Status of the job to be queried. If no status is specified, COS will return all jobs, including those in progress; otherwise, only jobs in the specified status will be returned. Valid values: Active, Cancelled, Cancelling, Complete,	No

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	Completing, Failed, Failing, New, Paused, Pausing, Preparing, Ready, Suspended.	
maxResults	Maximum number of jobs to be returned by COS. If this parameter is configured, the number of jobs returned each time will not exceed its value. If it is used together with the `nextToken` parameter, COS can return the results in multiple pages. Value range: 1–1,000. Default value: 1,000.	No
nextToken	Page break with a length of 1–64 bytes. Each `ListJobs` call will return the last `JobId` in the job list as `nextToken`. You can pass in the `nextToken` in the next `ListJobs` call for COS to list jobs starting from the end of the previous list. In this way, the results can be returned in multiple pages.	Yes
x-cos-appid	User APPID with a length of 1–64 bytes.	Yes

Request Headers

This API only uses common request headers. For more information, see Common Request Headers.

Request Body

This request does not have a request body.

Response

Sample Response

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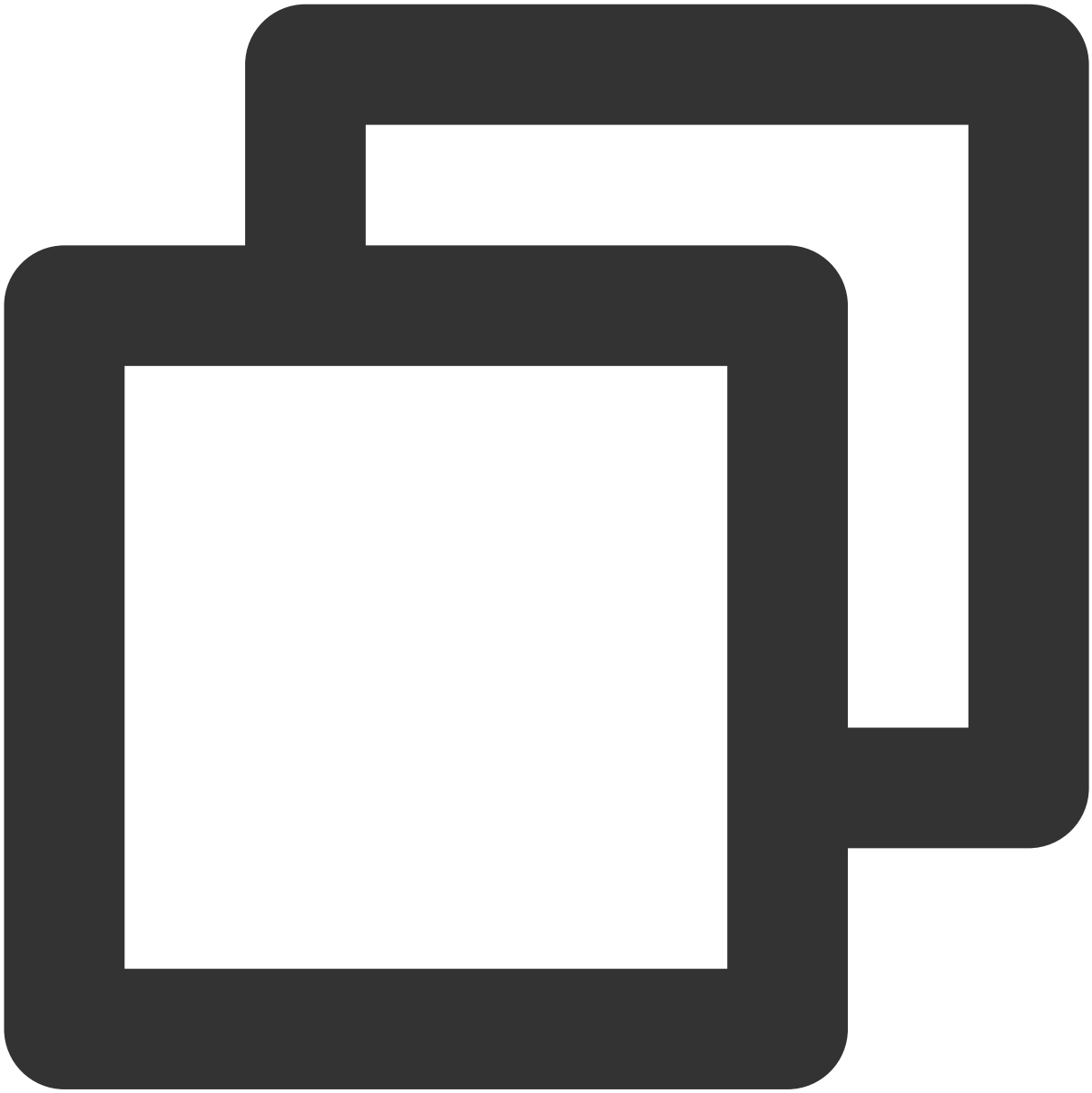

```
HTTP/1.1 200
<ListJobsResult>
...
</ListJobsResult>
```

Response Headers

This API only returns common response headers. For more information, see Common Response Headers.

Response Body

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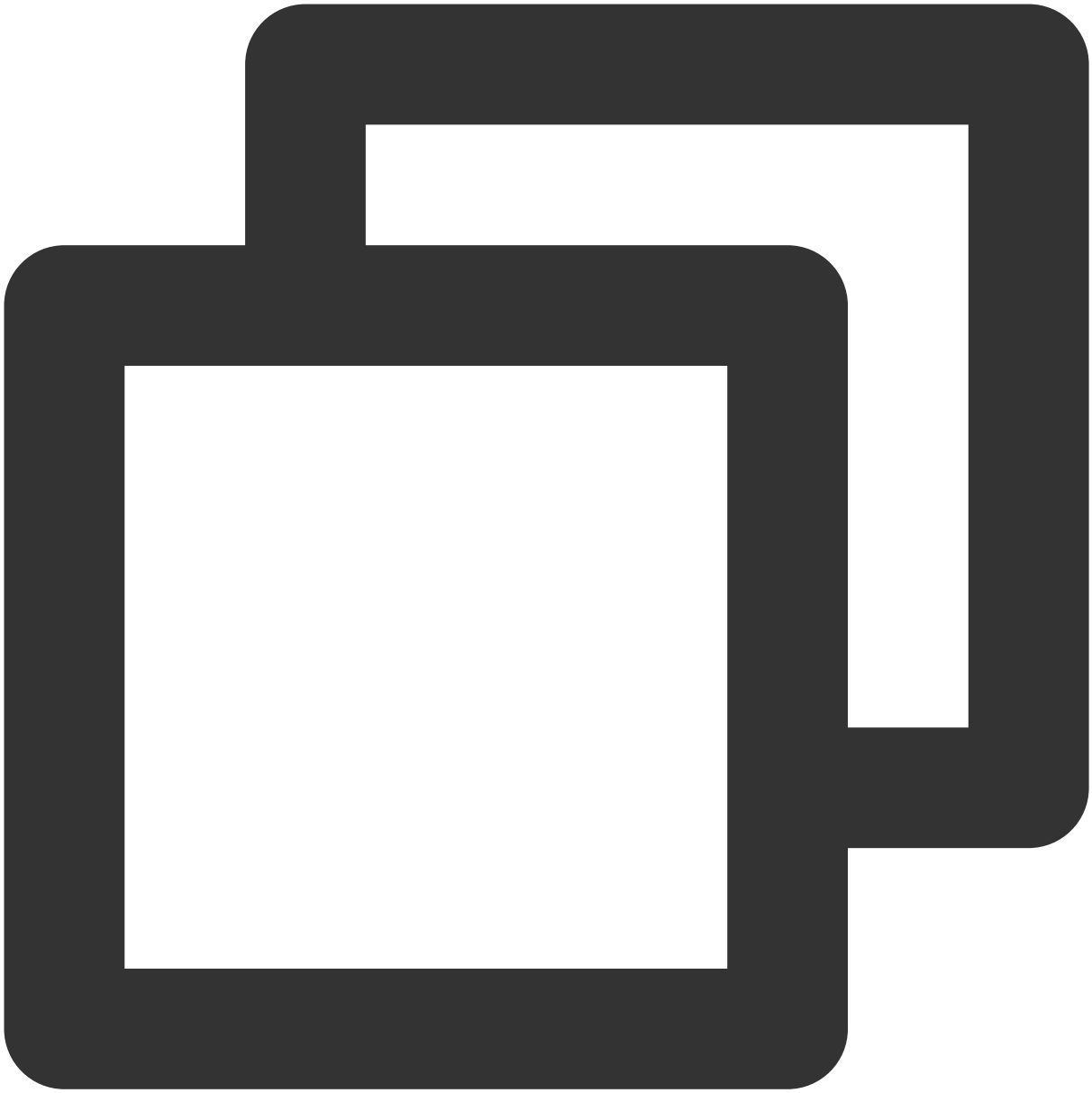

```
<ListJobsResult>
    <Jobs>
        <member>
            <CreationTime>timestamp</CreationTime>
            <Description>string</Description>
            <JobId>string</JobId>
            <Operation>string</Operation>
            <Priority>integer</Priority>
            <ProgressSummary>
                <NumberOfTasksFailed>integer</NumberOfTasksFailed>
                <NumberOfTasksSucceeded>integer</NumberOfTasksSucceeded>
```

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```
                <TotalNumberOfTasks>integer</TotalNumberOfTasks>
            </ProgressSummary>
            <Status>string</Status>
            <TerminationDate>timestamp</TerminationDate>
        </member>
    </Jobs>
    <NextToken></NextToken>
</ListJobsResult>
```

The content is described in detail as below:

ListJobsResult

This node contains information on the batch operation jobs returned by COS.

Node Name	Parent Node	Description	Type
Jobs	ListJobsResult	Information on the batch operation jobs returned by COS.	Jobs Object
NextToken	ListJobsResult	Page break with a length of 1–64 bytes. Each `ListJobs` call will return the last `JobId` in the job list as `nextToken`. You can pass in the `nextToken` in the next `ListJobs` call for COS to list jobs starting from the end of the previous list. In this way, the results can be returned in multiple pages.	String

Jobs

Node Name	Parent Node	Description	Type
member	Jobs	Information on one of the batch operation jobs returned by COS.	member Object

member

Node Name	Parent Node	Description	Type
CreationTime	member	Job creation time.	Timestamp
Description	member	Job description; length: 0–256 bytes.	String
JobId	member	Job ID; length: 1–64 bytes.	String
Operation	member	Operation performed on objects in a batch operation job, e.g. `COSPutObjectCopy`	String
Priority	member	Job priority. The higher the value, the higher the	Integer

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		priority. Value range: 0-2,147,483,647.	
ProgressSummary	member	Overview of job execution, which describes how many operations were performed in the job, how many succeeded, and how many failed.	ProgressSummary Object
Status	member	Job status. Valid values: Active, Cancelled, Cancelling, Complete, Completing, Failed, Failing, New, Paused, Pausing, Preparing, Ready, Suspended.	String
TerminationDate	member	Job end time.	Timestamp

For other elements, see CommonElements.

Error Codes

The following describes some frequent special errors that may occur when you make this request.

Error Code	Description	Status Code	API
InvalidArgument	The `jobStatuses` parameter is invalid	400	ListJobs
InvalidArgument	The `maxResults` parameter must be an integer	400	ListJobs
InvalidArgument	The `nextToken` parameter is invalid	400	ListJobs

For other errors, see ErrorResponse.

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UpdateJobPriority

Last updated：2024-06-12 15:20:05

Feature Description

This API is used to upgrade the priority of a job. The greater the value, the higher the priority. Jobs with a higher priority will be carried out first. For more information on batch operation jobs, see Batch Operation Overview.

Request

Sample Request

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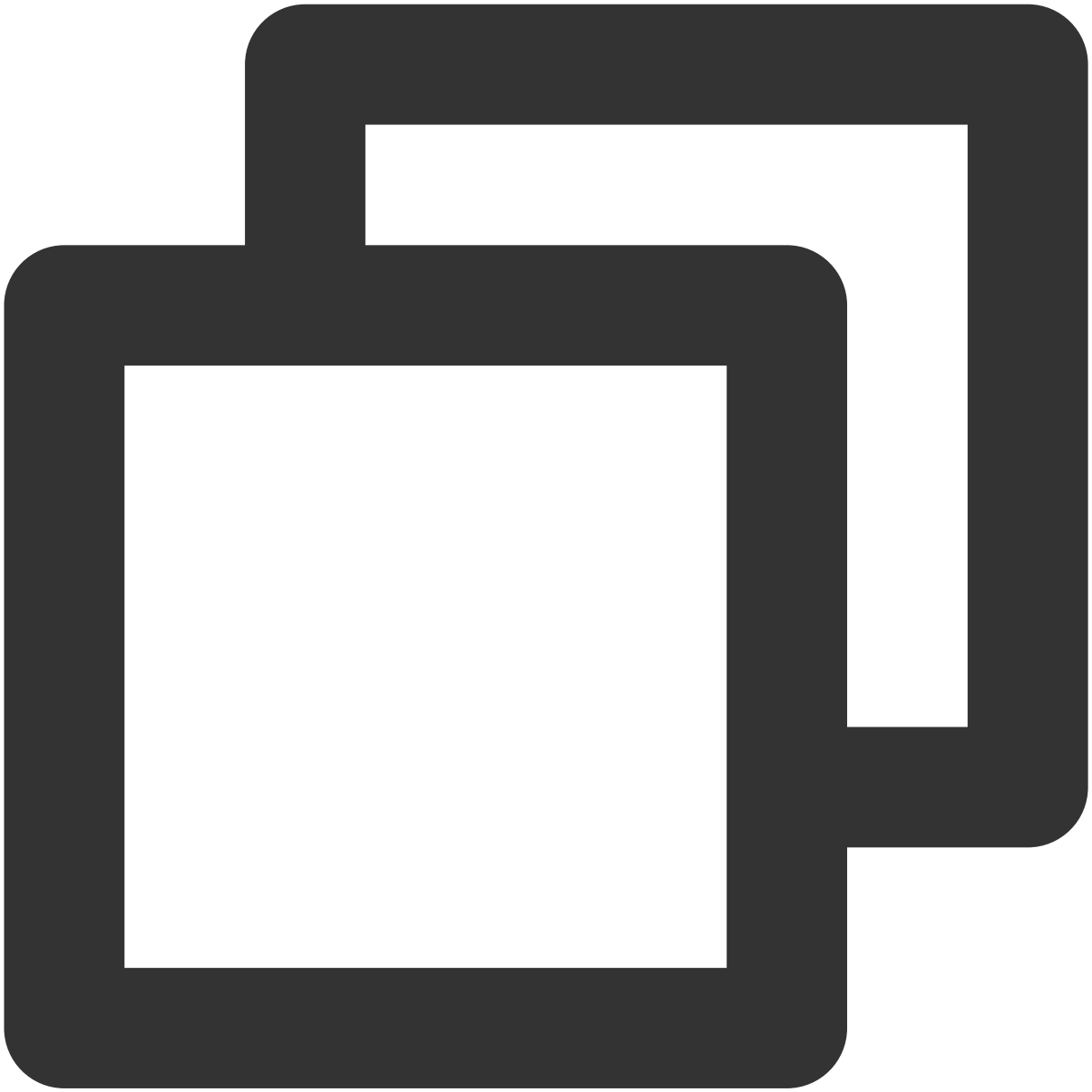

```
POST /jobs/<JobId>/priority?priority=<Priority> HTTP/1.1
x-cos-appid: <appid>
```

Request Parameters

Calling the `UpdateJobPriority` API requires the following parameters:

Parameter	Description	Required
JobId	ID of the batch operation job to be updated; length: 1–64 bytes.	Yes
priority	New job priority. Value range: 0-2,147,483,647.	Yes

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x-cos-appid	User APPID with a length of 1–64 bytes.	Yes

Request Headers

This API only uses common request headers. For more information, see Common Request Headers.

Request Body

This request does not have a request body.

Response

Sample Response

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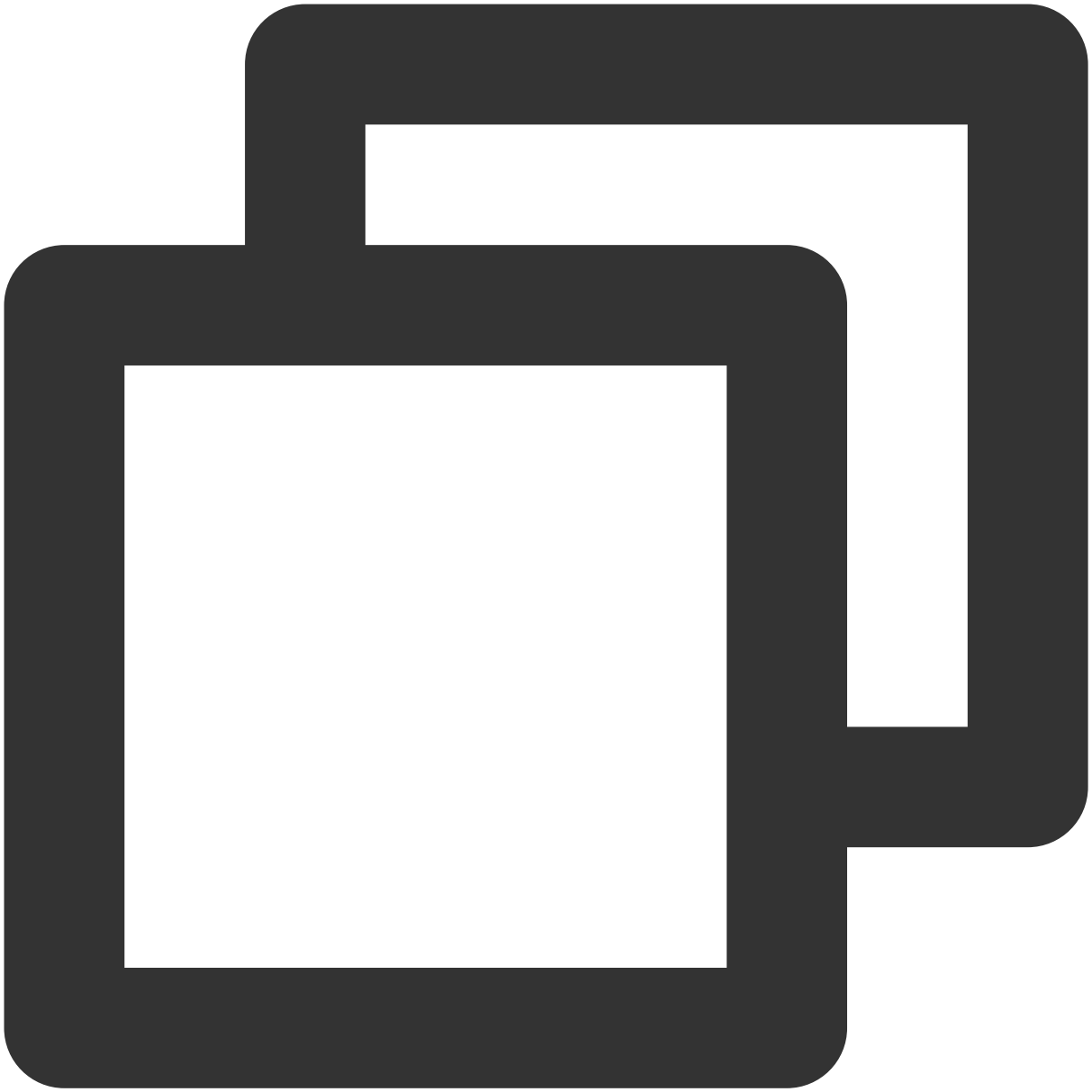

```
HTTP/1.1 200
<UpdateJobPriorityResult>
    <JobId>string</JobId>
    <Priority>integer</Priority>
</UpdateJobPriorityResult>
```

Response Headers

This API only returns common response headers. For more information, see Common Response Headers.

Response Body

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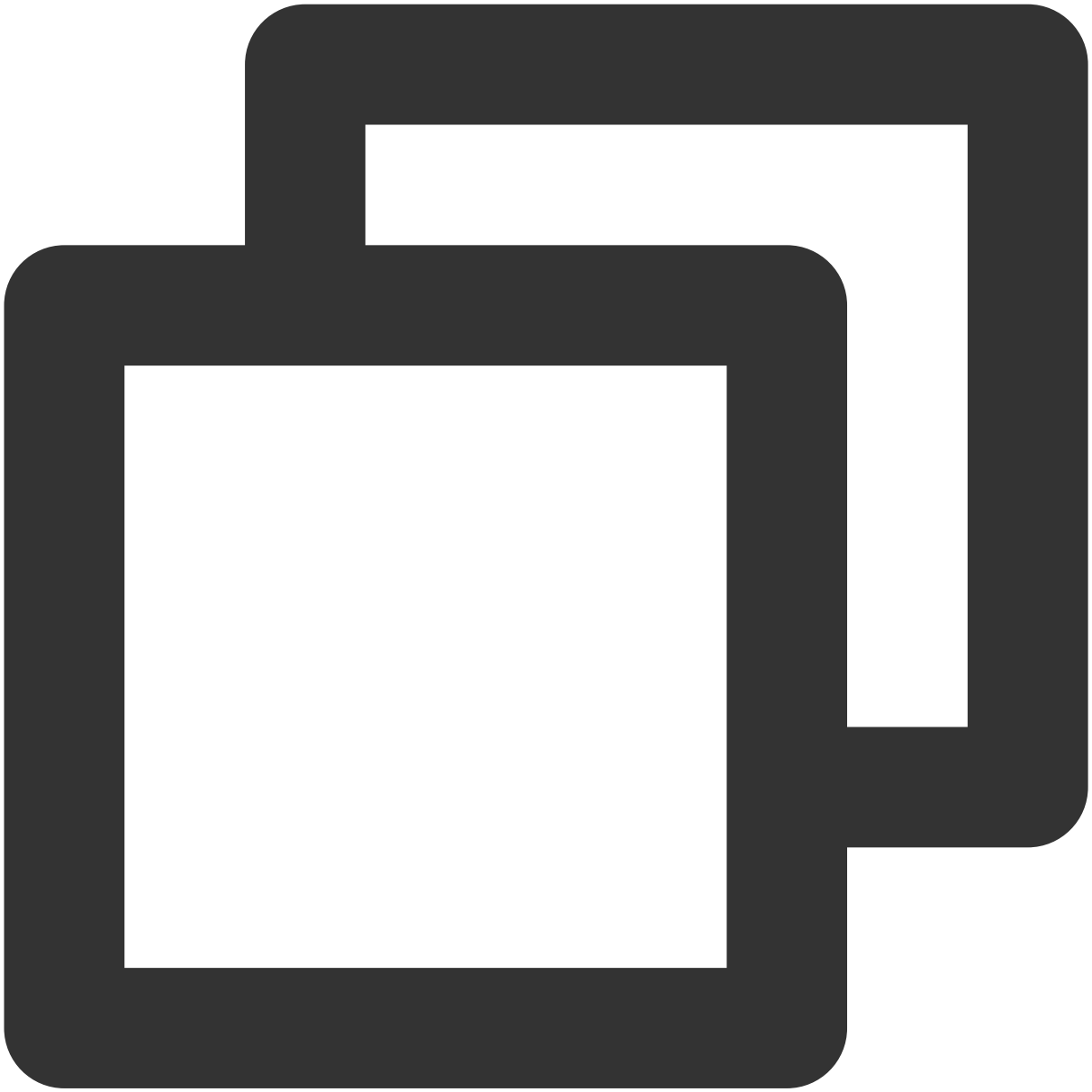

```
<UpdateJobPriorityResult>
    <JobId>string</JobId>
    <Priority>integer</Priority>
</UpdateJobPriorityResult>
```

The content is described in detail as below:

UpdateJobStatusResult

Node Name	Parent Node	Description	Type
JobId	UpdateJobPriorityResult	ID of the job you update; length: 1–64 bytes.	String

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Priority	UpdateJobPriorityResult	Current job priority. Value range: 0-2,147,483,647.	Integer

Error Codes

The following describes some frequent special errors that may occur when you make this request.

Error Code	Description	Status Code	API
InvalidRequest	No job priority is provided	400	UpdateJobPriority
NoSuchJob	The specified job does not exist or has already been completed	404	UpdateJobStatus, UpdateJobPriority

For other errors, see ErrorResponse.

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UpdateJobStatus

Last updated：2024-06-12 15:20:05

Feature Description

This API is used to update the status of a job. You can use this API to start a job or cancel an ongoing job. For more information on batch operation jobs, see Batch Operation Overview.

Request

Sample Request

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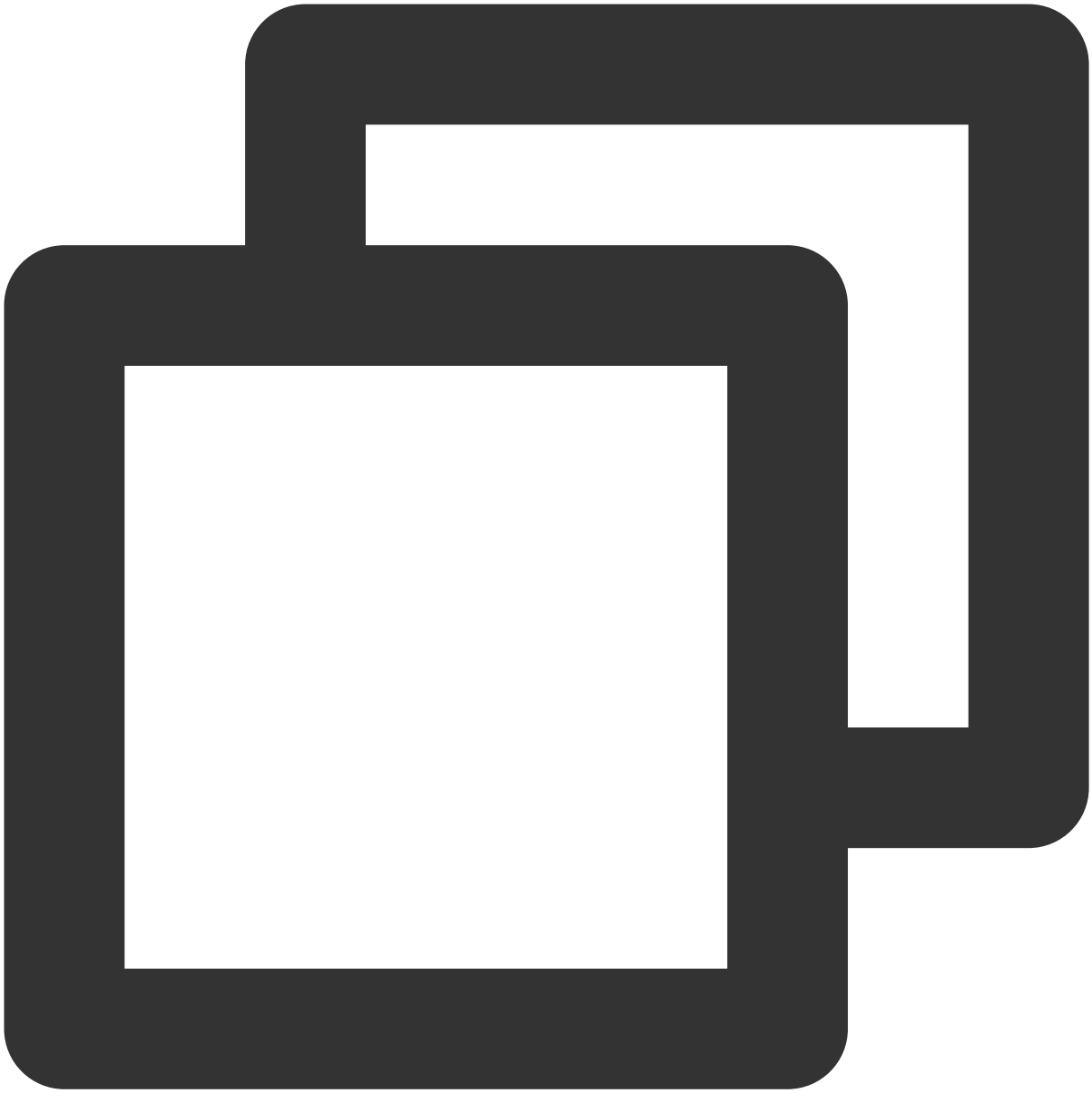

```
POST /jobs/<JobId>/status?requestedJobStatus=<RequestedJobStatus>&statusUpdateReaso
x-cos-appid: <appid>
```

Request Parameters

Calling the `UpdateJobStatus` API requires the following parameters:

Parameter	Description	Required
JobId	ID of the batch operation job to be updated.	Yes
requestedJobStatus	Your desired job status. If you change the job status to `Ready` , COS	Yes

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	will think that you have confirmed the job and will execute it. If you change the job status to `Cancelled`, COS will cancel the job. Valid values: `Ready`, `Cancelled`.	
statusUpdateReason	Reason for the status update; length: 0–256 bytes.	No
x-cos-appid	User APPID with a length of 1–64 bytes.	Yes

Request Headers

This API only uses common request headers. For more information, see Common Request Headers.

Request Body

This request does not have a request body.

Response

Sample Response

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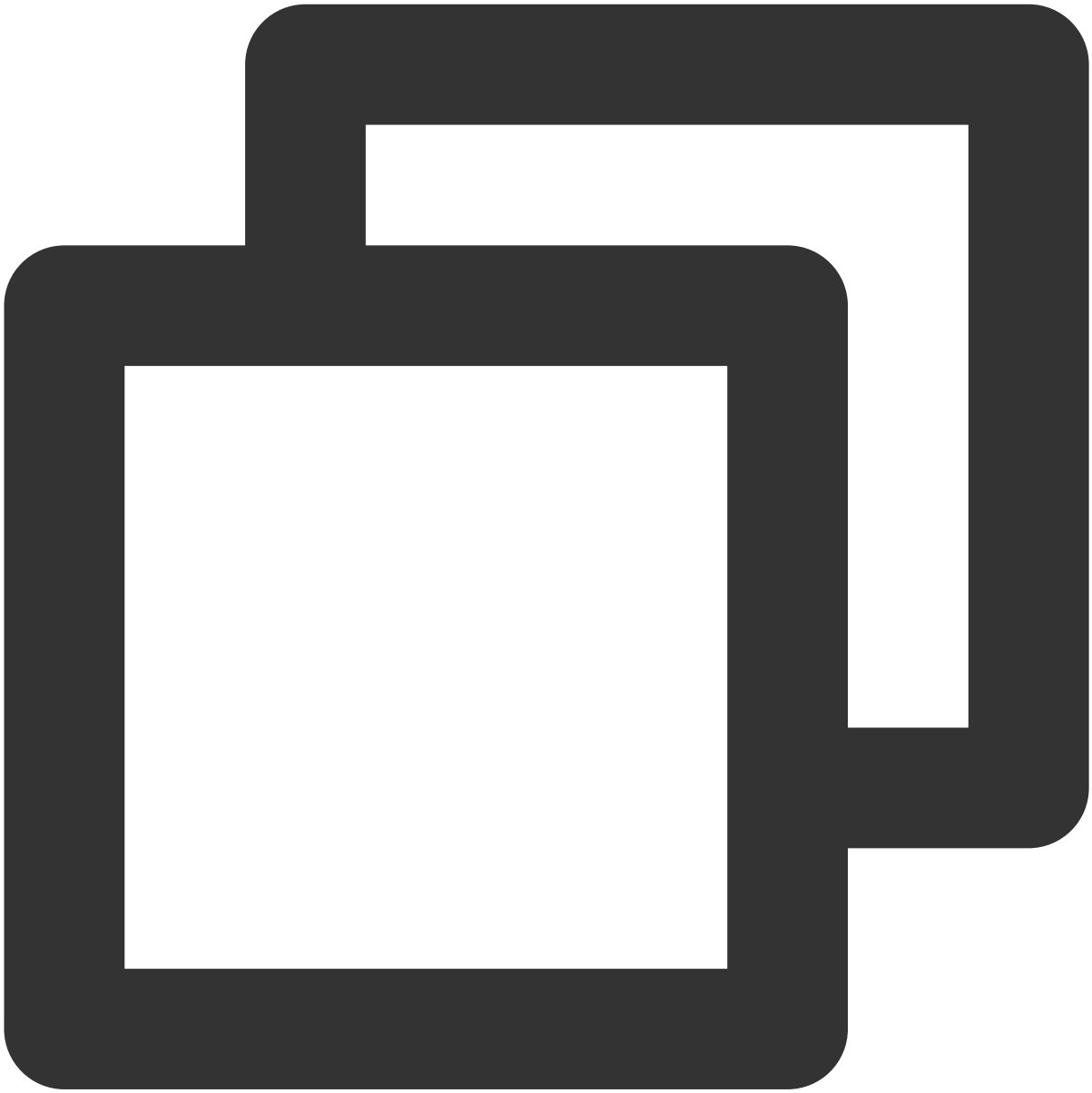

```
HTTP/1.1 200
<UpdateJobStatusResult>
    <JobId>string</JobId>
    <Status>string</Status>
    <StatusUpdateReason>string</StatusUpdateReason>
</UpdateJobStatusResult>
```

Response Headers

This API only returns common response headers. For more information, see Common Response Headers.

Response Body

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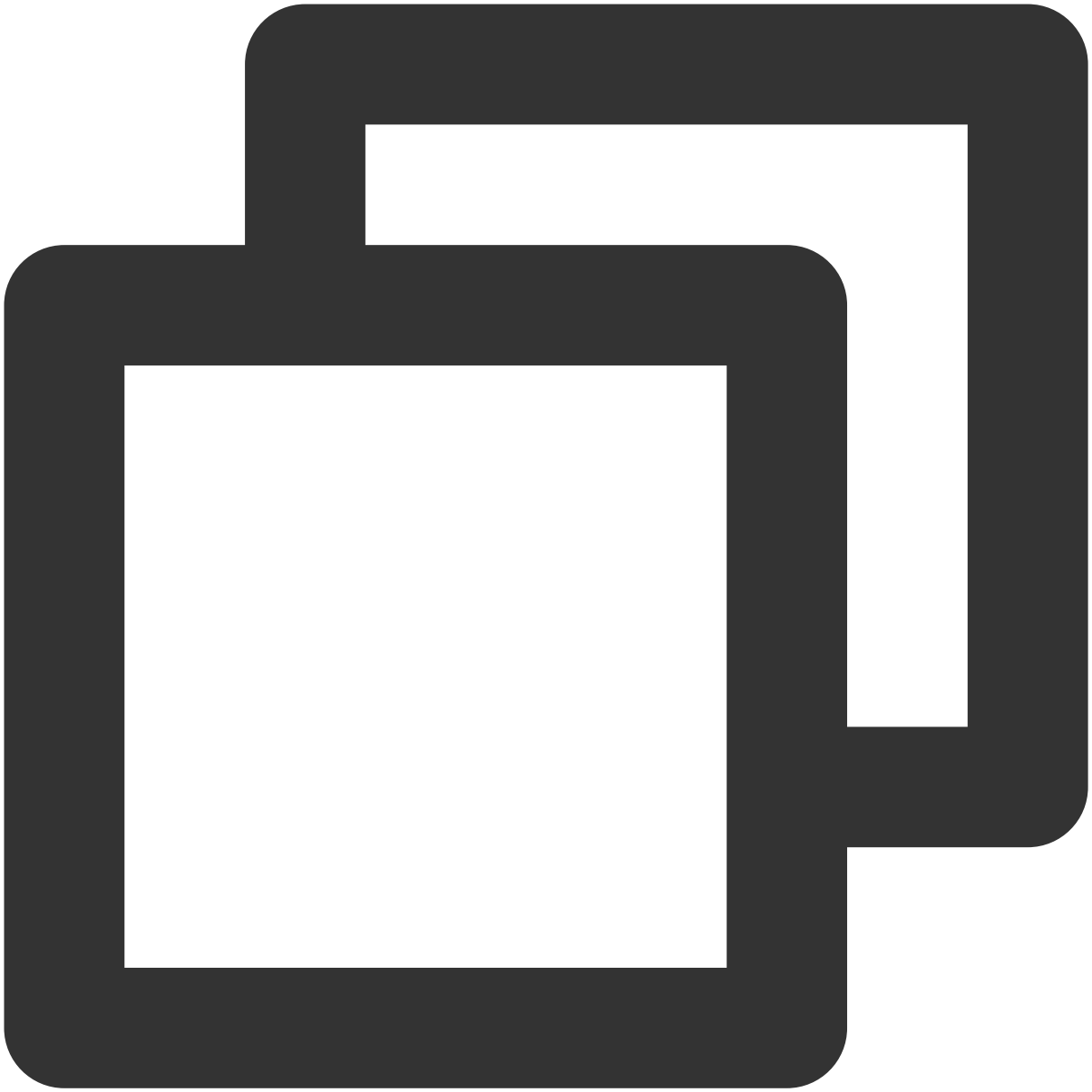

```
<UpdateJobStatusResult>
   <JobId>string</JobId>
   <Status>string</Status>
   <StatusUpdateReason>string</StatusUpdateReason>
</UpdateJobStatusResult>
```

The content is described in detail as below:

UpdateJobStatusResult

Node Name	Parent Node	Description	Type

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JobId	UpdateJobStatusResult	ID of the job you update; length: 5–36 bytes.	String
Status	UpdateJobStatusResult	Current job status. Valid values: Active, Cancelled, Cancelling, Complete, Completing, Failed, Failing, New, Paused, Pausing, Preparing, Ready, Suspended.	String
StatusUpdateReason	UpdateJobStatusResult	Reason for the status update; length: 0–256 bytes.	String

Error Codes

The following describes some frequent special errors that may occur when you make this request.

Error Code	Description	Status Code	API
InvalidArgument	The value of the `requestedJobStatus` parameter must be `Cancelled` or `Ready`	400	UpdateJobStatus
InvalidRequest	The specified job has already been completed	400	UpdateJobStatus
InvalidRequest	Error with the job status change	400	UpdateJobStatus
NoSuchJob	The specified job does not exist or has already been completed	404	UpdateJobStatus, UpdateJobPriority

For other errors, see ErrorResponse.

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Common Elements

Last updated：2024-06-12 15:20:05

This document describes common elements used in batch operations.

Manifest

Node	Parent Node	Description	Type	Required
Location	Manifest	Location of the object inventory	Location Object	Yes
Spec	Manifest	Format of the object inventory. If the format is CSV, this element will describe the fields contained in the inventory	Spec Object	Yes

Location

Node	Parent Node	Description	Type	Required
ETag	Location	Specifies the ETag of the object inventory; length: 1-1,024 bytes	String	Yes
ObjectArn	Location	Specifies the unique resource ID of the object inventory; length: 1-1,024 bytes	String	Yes
ObjectVersionId	Location	Specifies the version ID of the object inventory; length: 1-1,024 bytes	String	No

Spec

Node	Parent Node	Description	Type	Required
Fields	Spec	Describes the fields contained in the inventory. If the format is `COSBatchOperations_CSV_V1`, this element is required to specify the fields in the CSV file. Valid values: `Ignore`, `Bucket`, `Key`, `VersionId`	Array of Strings	No
Format	Spec	Specifies the format of the object inventory. Valid values:	String	Yes

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		`COSBatchOperations_CSV_V1`, `COSInventoryReport_CSV_V1`		

Operation

Note:

A single job can only contain one of the following operations.

Node	Parent Node	Description	Type	Required
COSPutObjectCopy	Operation	Specifies the parameters for the batch replication of objects in the inventory	COSPutObjectCopy Object	No
COSInitiateRestoreObject	Operation	Specifies the parameters for the batch restoration of ARCHIVED objects in the inventory	COSInitiateRestoreObject	No

COSPutObjectCopy

Node	Parent Node	Description	Type
AccessControlDirective	COSPutObjectCopy	Specifies the ACL replication mode. Valid values: `Copy`, `Replaced`, `Add`. Copy: inherits the ACL of the source object. Replaced: replaces the source ACL. Add: adds a new ACL based on the source ACL.	String
AccessControlGrants	COSPutObjectCopy	Controls the access permissions of an object	AccessControlGrants Object
CannedAccessControlList	COSPutObjectCopy	Defines the ACL attribute of an object. Valid values: `private`, `public-read`	String

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PrefixReplace	COSPutObjectCopy	Specifies whether to replace the source object prefix. If set to `true`, the object prefix is replaced. It is used together with `<ResourcesPrefix>` and `<TargetKeyPrefix>`. Default value: `false`	boolean
ResourcesPrefix	COSPutObjectCopy	Specifies the source object prefix to be replaced. This parameter takes effect only when `<PrefixReplace>` is set to `true`. To replace a directory, the directory should end with a slash (/). This parameter can be up to 1,024 bytes and can be left empty.	string
TargetKeyPrefix	COSPutObjectCopy	Specifies the target prefix that replaces the source object prefix. This parameter takes effect only when `<PrefixReplace>` is set to `true`. To replace a directory, the directory should end with a slash (/). This parameter can be up to 1,024 bytes and can be left empty. Example: Assume that the source object is picture.jpg. If you set `ResourcesPrefix` to `pic` and `TargetKeyPrefix` to `abc`, picture.jpg will be changed to abcture.jpg. Note: If `ResourcesPrefix` is empty and `TargetKeyPrefix`	String

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		carries a value, a prefix will be added. If both `ResourcesPrefix` and `TargetKeyPrefix` carry a value, the prefix will be replaced. If `ResourcesPrefix` carries a value and `TargetKeyPrefix` is left empty, the prefix will be deleted.	
ModifiedSinceConstraint	COSPutObjectCopy	If the object is modified after the specified time, the operation will be performed; otherwise, 412 will be returned	Timestamp
UnModifiedSinceConstraint	COSPutObjectCopy	If the object is not modified after the specified time, the operation will be performed; otherwise, `412` will be returned	Timestamp
MetadataDirective	COSPutObjectCopy	Specifies whether to copy the metadata of the source object, or replace the metadata with that specified in `<NewObjectMetadata>`. Valid values: `Copy`, `Replaced`. `Add`. Copy: inherits the metadata of the source object. Replaced: replaces the source metadata. Add: adds new metadata based on the source metadata.	String
NewObjectMetadata	COSPutObjectCopy	Configures the metadata of an object	NewObjectMetadata Object
TaggingDirective	COSPutObjectCopy	Specifies whether to copy the tag of the source object, or replace the tag with that	String

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		specified in `<NewObjectTagging>`. Valid values: `Copy`, `Replaced`, `Add`. Copy: inherits the tag of the source object. Replaced: replaces the source tag. Add: adds a tag based on the source tag.	
NewObjectTagging	COSPutObjectCopy	Configures the object tag. This parameter must be specified if `<TaggingDirective>` is set to `Replace` or `Add`.	NewObjectTagging
StorageClass	COSPutObjectCopy	Configures the storage class of an object. Enumerated values: `STANDARD` (default), `STANDARD_IA`.	String
TargetResource	COSPutObjectCopy	Configures the destination bucket for the replication. Please specify it with "qcs", e.g., `qcs::cos:ap-beijing::result-1250000000`	String

COSInitiateRestoreObject

Node	Parent Node	Description	Type	Required
ExpirationInDays	COSInitiateRestoreObject	Specifies the number of days after which the copy will expire and be deleted automatically. It is an integer ranging from 1 to 365.	Integer	Yes
JobTier	COSInitiateRestoreObject	Specifies the restoration mode. Valid values: `Bulk`, `Standard`.	String	Yes

AccessControlGrants

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Node	Parent Node	Description	Type	Required
COSGrant	AccessControlGrants	Configures access control	COSGrant Object	No

COSGrant

Node	Parent Node	Description	Type	Required
Grantee	COSGrant	Specifies the user to which the permission is granted	Grantee Object	Yes
Permission	COSGrant	Specifies the permission to be granted. Enumerated values: `READ` , `WRITE` , `FULL_CONTROL`	String	Yes

Grantee

Node	Parent Node	Description	Type	Requir
DisplayName	Grantee	Username	String	No
Identifier	Grantee	User ID in qcs format (UIN), e.g., `qcs::cam::uin/100000000001:uin/100000000001`	String	Yes
TypeIdentifier	Grantee	Specifies the identifier type. Currently, only user ID is supported. Enumerated value: `ID`	String	Yes

NewObjectMetadata

Node	Parent Node	Description	Type	Required
CacheControl	NewObjectMetadata	Cache directives as defined in RFC 2616. It will be stored as object metadata.	String	No
ContentDisposition	NewObjectMetadata	Filename as defined in RFC 2616, which will be stored in the object metadata	String	No
ContentEncoding	NewObjectMetadata	Encoding format as defined in RFC 2616. It will be stored as object metadata.	String	No

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ContentType	NewObjectMetadata	Content type as defined in RFC 2616. It will be stored as object metadata.	String	No
HttpExpiresDate	NewObjectMetadata	Cache expiration time as defined in RFC 2616. It will be stored as object metadata.	String	No
SSEAlgorithm	NewObjectMetadata	Server-side encryption algorithm. Currently, only AES256 is supported	String	No
UserMetadata	NewObjectMetadata	Includes user-defined object metadata	Array of Key and Value	No

Report

Node	Parent Node	Description	Type	Required
Bucket	Report	Bucket to which a job report is delivered	String	Yes
Enabled	Report	Specifies whether to output a job report	Boolean	Yes
Format	Report	Job report format. Valid value: `Report_CSV_V1`	String	Yes
Prefix	Report	Job report prefix; length: 0-256 bytes	String	No
ReportScope	Report	Specifies whether the job report records all operations or only failed operations. Valid values: `AllTasks` , `FailedTasksOnly`	String	Yes

ProgressSummary

Node	Parent Node	Description	Type
NumberOfTasksFailed	ProgressSummary	Number of failed operations	Integer
NumberOfTasksSucceeded	ProgressSummary	Number of successful operations	Integer
TotalNumberOfTasks	ProgressSummary	Total number of operations	Integer

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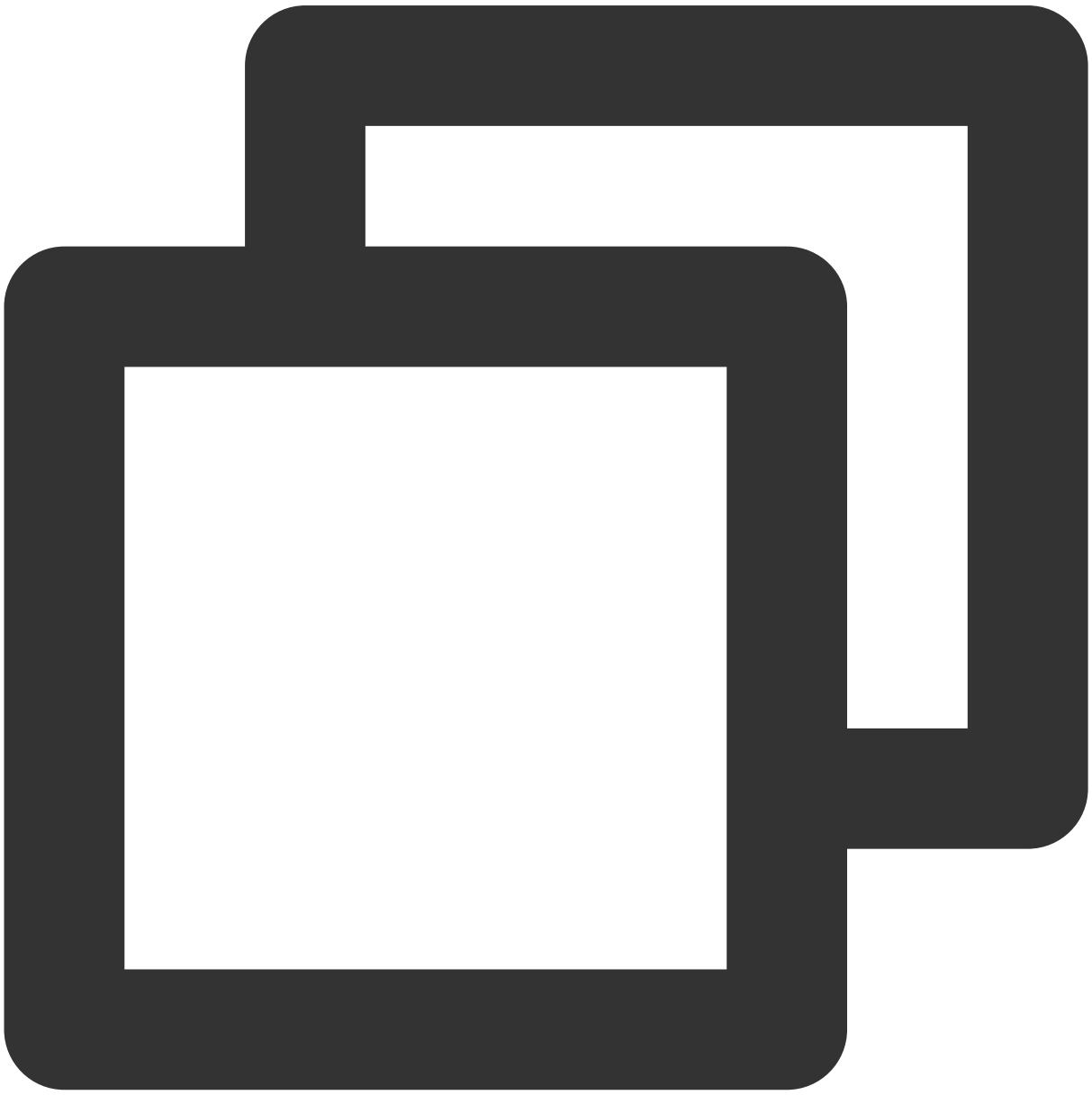
ErrorResponse

Last updated：2024-06-12 15:20:05

This document describes the error responses you may see when using the batch operation feature.

Error Response Format



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```
HTTP/1.1 400
<Error>
    <Code>string</Code>
    <Message>string</Message>
    <Resource>string</Resource>
    <RequestId>string</RequestId>
    <TraceId>string</TraceId>
</Error>
```

Common Error Codes

Error Code	Description	Status Code	API
InvalidArgument	Empty parameter	400	CreateJob
InvalidArgument	Invalid parameter	400	CreateJob
InvalidArgument	`x-cos-appid` cannot be empty	400	Any
InvalidArgument	Priority must be an integer between 0 and 2,147,483,647	400	CreateJob
InvalidArgument	The value of the `requestedJobStatus` parameter must be `Cancelled` or `Ready`	400	UpdateJobStatus
InvalidArgument	The `jobStatuses` parameter is invalid	400	ListJobs
InvalidArgument	The `maxResults` parameter must be a positive integer	400	ListJobs
InvalidArgument	The `nextToken` parameter is invalid	400	ListJobs
InvalidRequest	Invalid request	400	Any
InvalidRequest	Empty request body	400	Any
InvalidRequest	No job ID is provided	400	Any
InvalidRequest	No job priority is provided	400	UpdateJobPriority
InvalidRequest	The `ClientRequestToken` parameter already exists	400	CreateJob

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InvalidRequest	The specified job has already been completed	400	UpdateJobStatus
InvalidRequest	Error with the job status change	400	UpdateJobStatus
InternalError	Failed to format the XML response	500	Any
MalformedXML	Invalid request format	400	Any
MalformedXML	Incorrect `Manifest` format	400	CreateJob
MalformedXML	Incorrect `Operation` format	400	CreateJob
MalformedXML	Incorrect `Report` format	400	CreateJob
NoSuchJob	The specified job does not exist	404	DescribeJob
NoSuchJob	The specified job has already been completed	404	UpdateJobStatus, UpdateJobPriority
ServiceUnavailable	Error with data persistence	500	Any
ServiceUnavailable	Error loading persistent data	500	Any
ServiceUnavailable	Unable to create a job	500	CreateJob
TooManyJobs	The number of jobs has reached the upper limit, making the server unavailable	500	CreateJob

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Data Processing APIs
Image Processing
Basic Image Processing
Scaling

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2** API provided by CI to scale images. The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
An image can be processed:
Upon download
Upon upload
In cloud

Note:

Image processing is charged by CI. For detailed pricing, please see the image processing prices of CI.

API Format

1. Processing upon download

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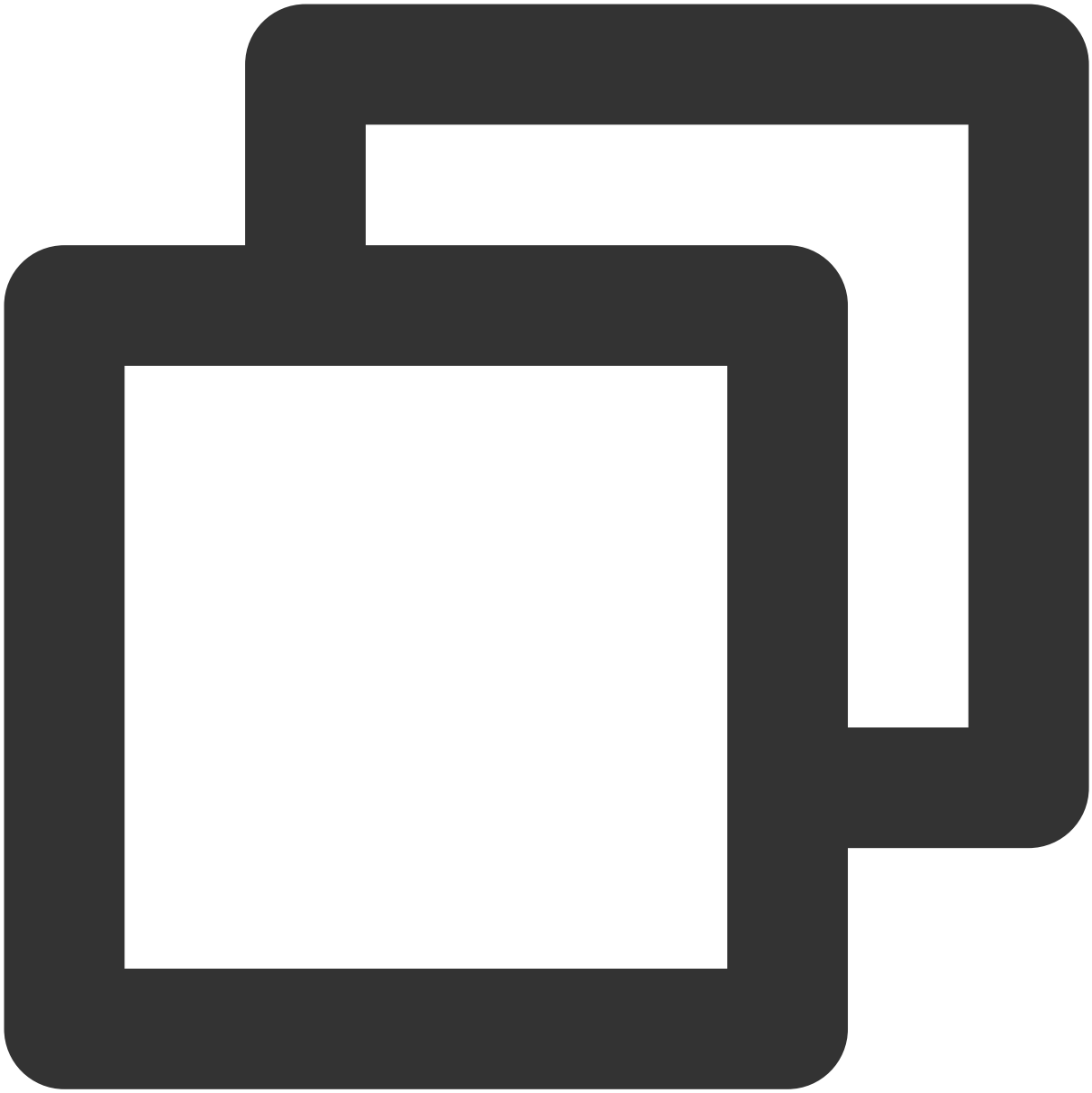

```
download_url?imageMogr2/thumbnail/<imageSizeAndOffsetGeometry>
```

2. Processing upon upload

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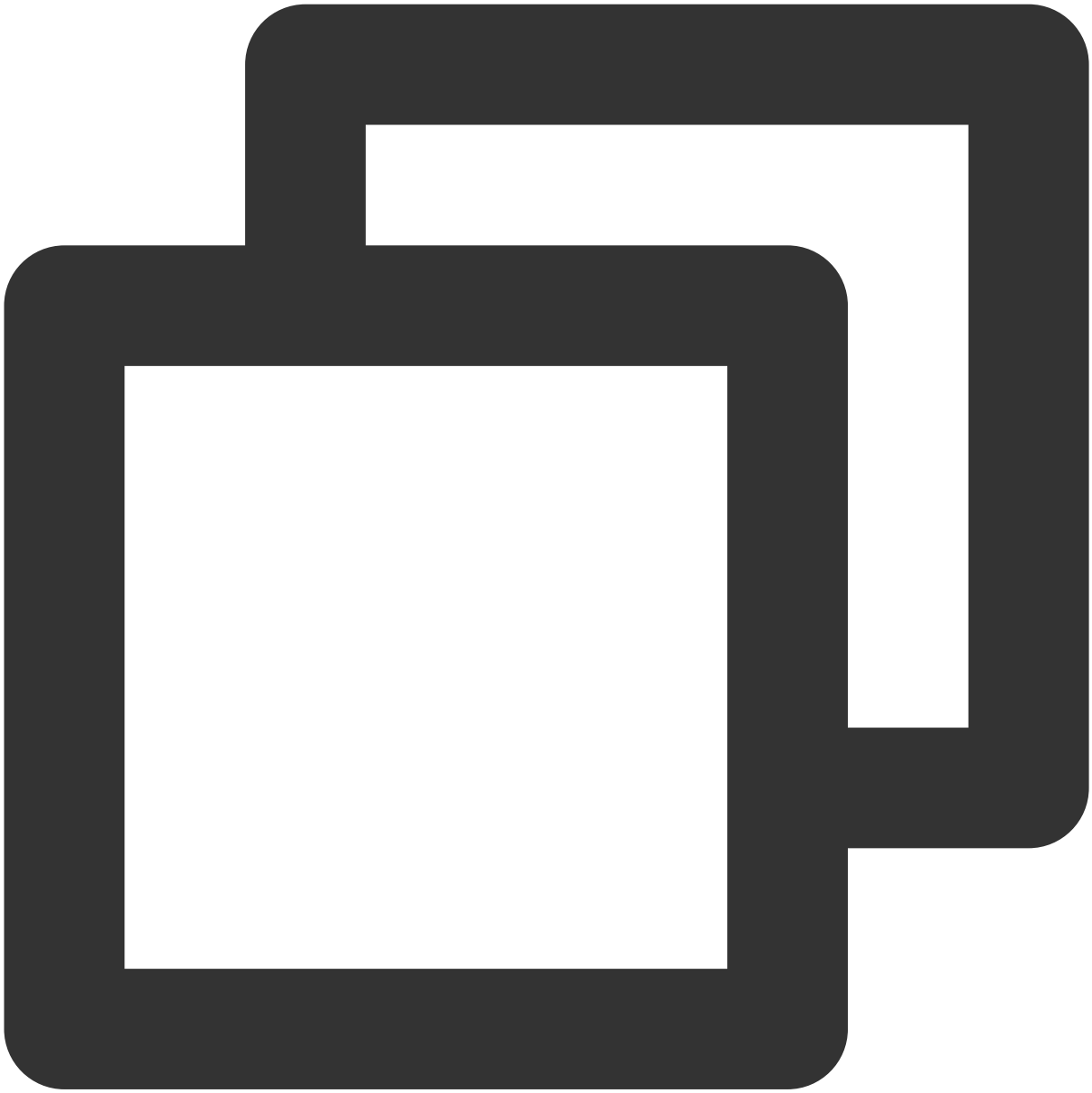

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/thumbnail/<imageSizeAndOffsetGeometry>"
  }]
```

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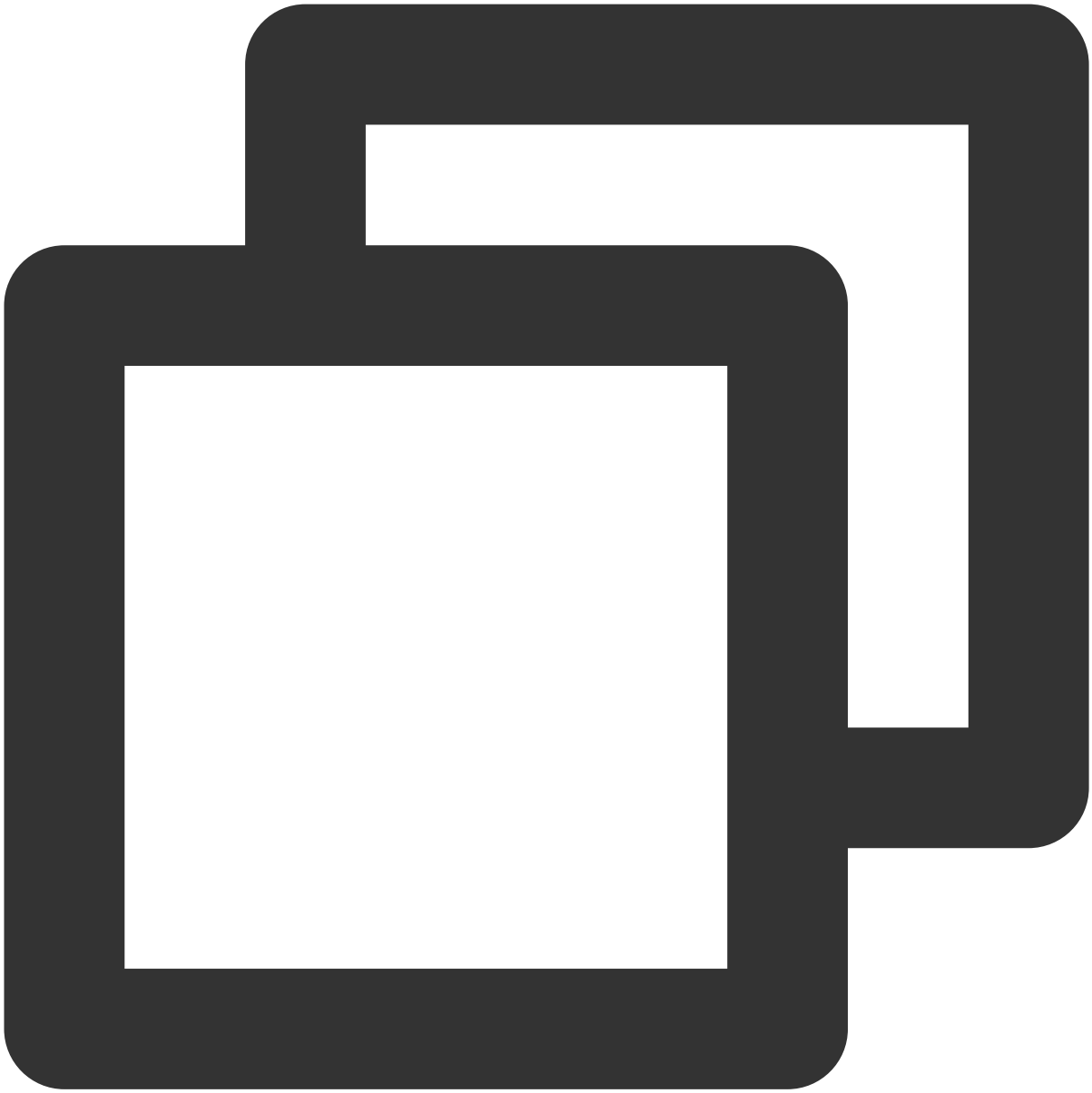
```
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
```

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```
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject",
        "rule": "imageMogr2/thumbnail/<imageSizeAndOffsetGeometry>"
    }]
}
```

Parameters

Operation: thumbnail

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>`Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/thumbnail/!<Scale>p	The percentage to scale the width and height of the input image
/thumbnail/!<Scale>px	The percentage to scale the width of the input image, without changing the height
/thumbnail/!x<Scale>p	The percentage to scale the height of the input image, without changing the width
/thumbnail/<Width>x	The width of the output image, with the height scaled automatically
/thumbnail/x<Height>	The height of the output image, with the width scaled automatically
/thumbnail/<Width>x<Height>	The maximum width and height of the thumbnail for scaling
/thumbnail/<Width>x<Height>>	The maximum width and height of the thumbnail to scale down the image. The smaller value between the width scale ratio and height scale ratio will be used as the scale ratio. If both the output width and height are greater than the input width and height, the image will not be scaled.
/thumbnail/<Width>x<Height><	The maximum width and height of the thumbnail to scale up the image. The smaller value between the width scale ratio and height scale ratio will be used as the scale ratio. If both the output width and height are smaller than the input width and height, the image will not be scaled.
/thumbnail/!<Width>x<Height>r	The minimum width and height of the thumbnail for scaling
/thumbnail/<Width>x<Height>!	The output width and height with the aspect ratio of the input image ignored. Note that the output image may be distorted.

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/thumbnail/<Area>@	The maximum number of pixels of the output image
/pad/	Whether to pad the blank area with the color specified by `color` after the input image is scaled as large as possible in a rectangle with the specified width and height, with the image centered. Valid values: `0` (not to pad), `1` (to pad)
/color/	Padding color. Defaults to `#3D3D3D` (gray). The value must be in hexadecimal format, for example, `#FF0000`. For format conversion, please see RGB Color Codes Chart. The value must be URL-safe Base64-encoded.
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Input image:

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Example 1: scaling the width and height

This example scales down the input image by 50% in width and height:

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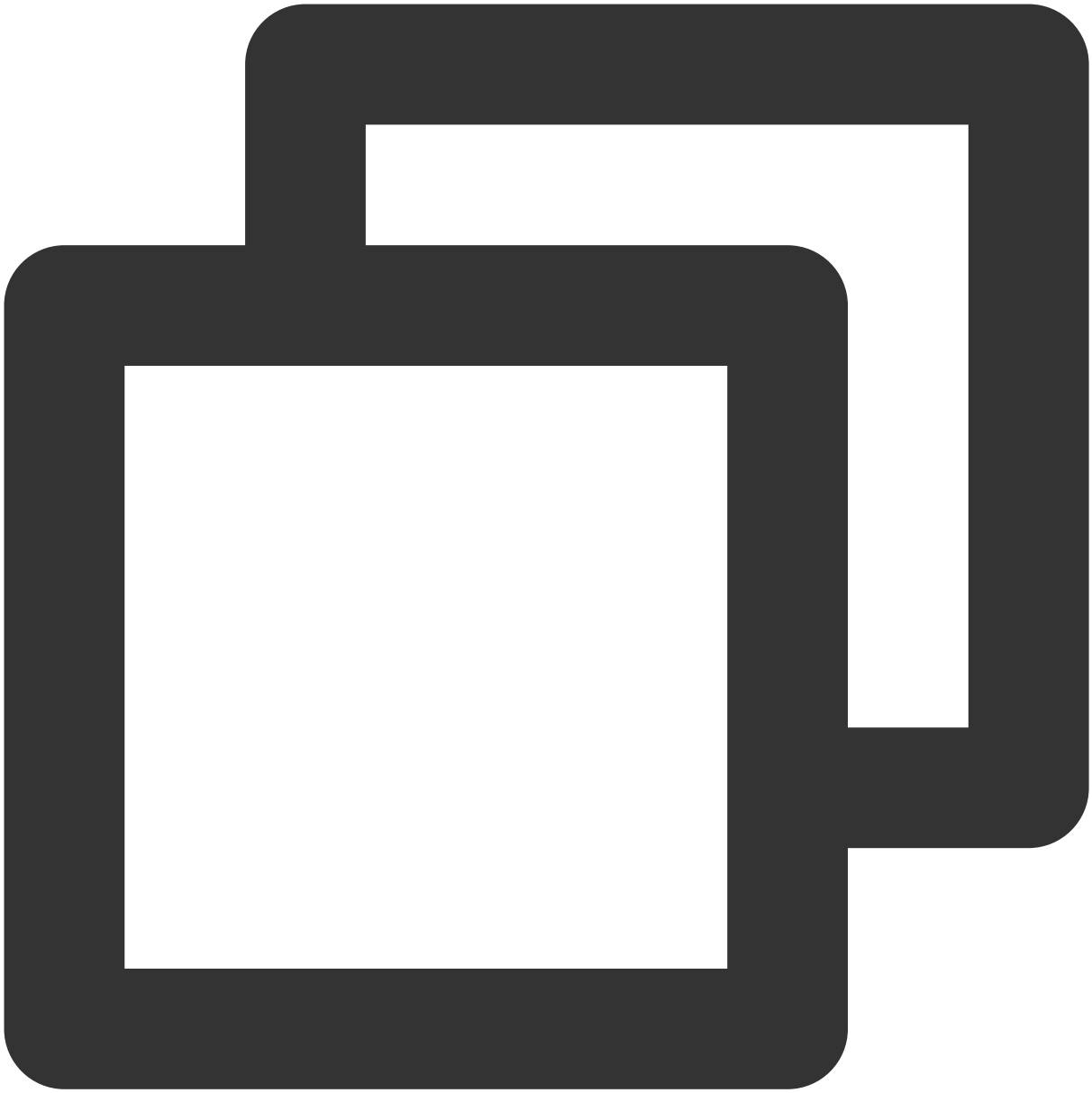

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/thum
```

Output image:

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Example 2: scaling the width without changing the height

This example scales down the width of the input image by 50% without changing its height:

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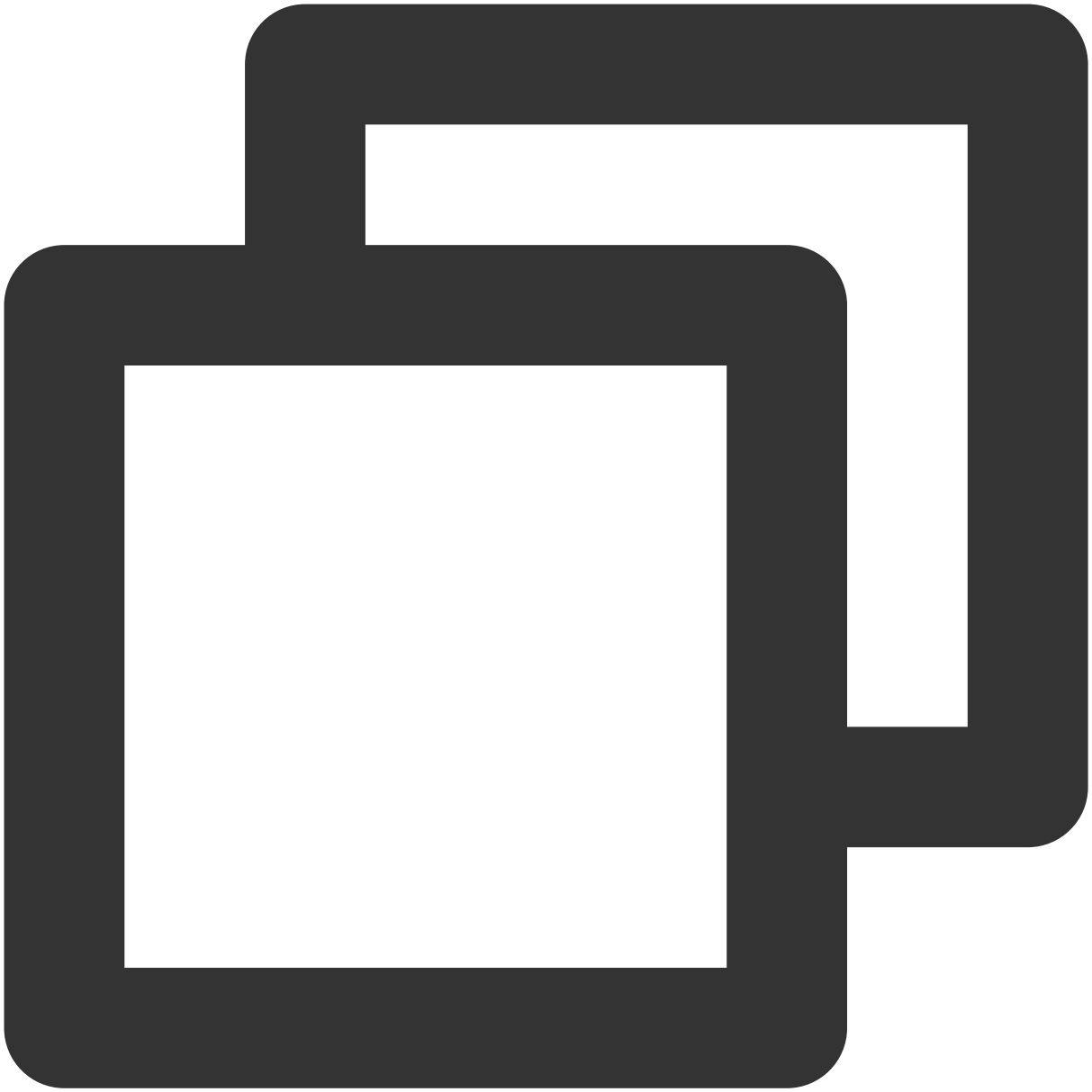

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/thum
```

Output image:

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Example 3: scaling in padding mode

This example scales the input image as large as possible in a 600 x 600 rectangle and pads the blank area with a specified color:

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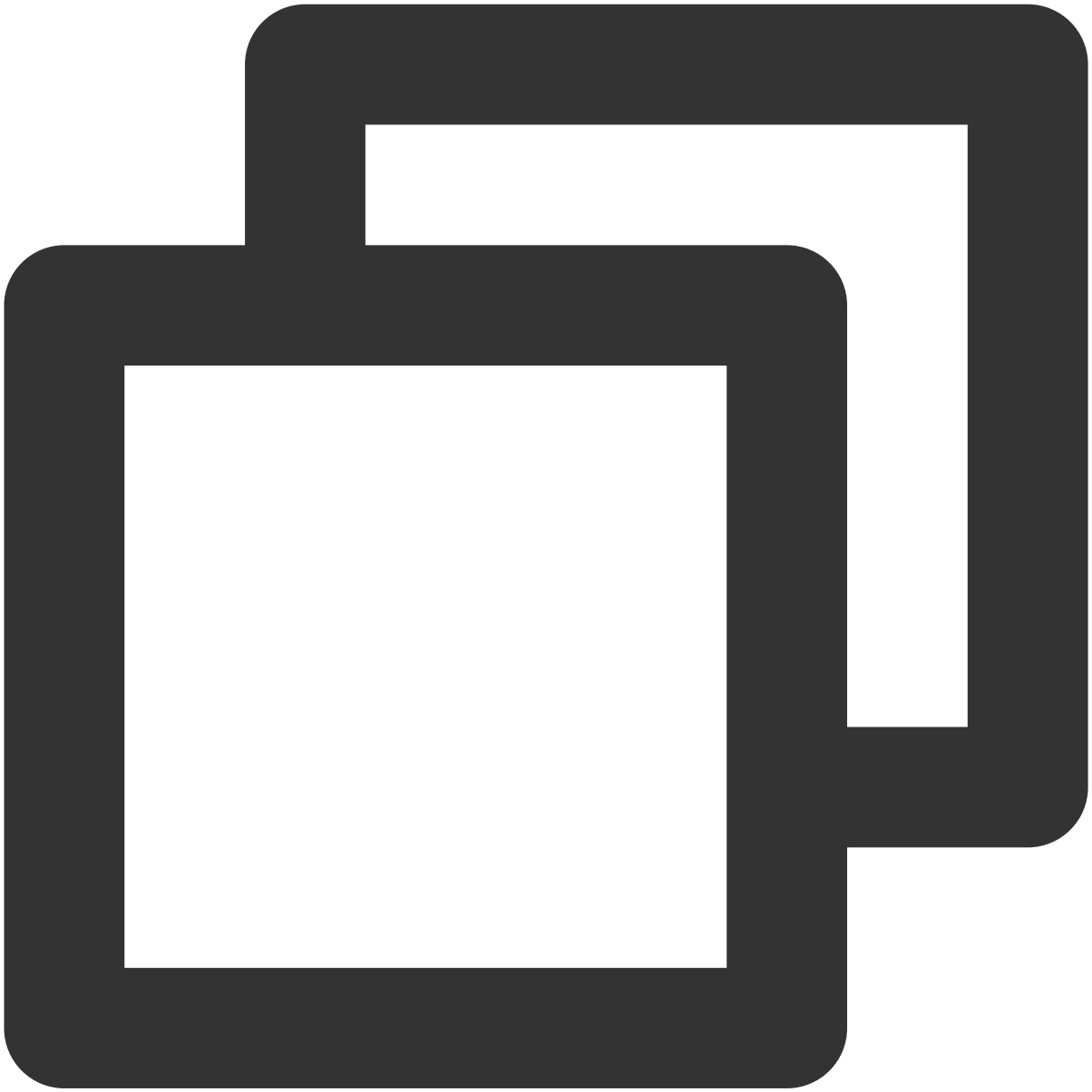

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/thum
```

Output image:

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Example 4: scaling in padding mode with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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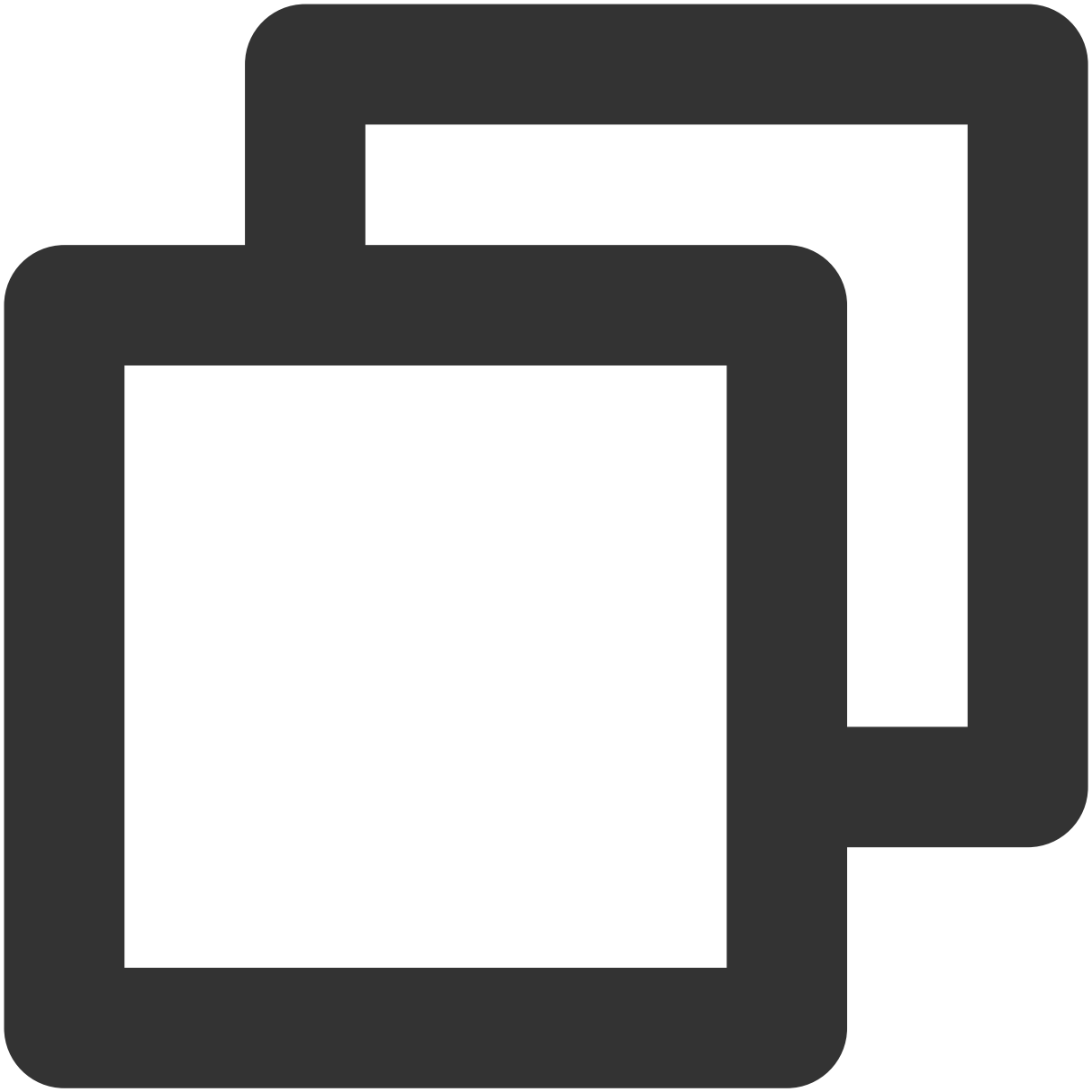

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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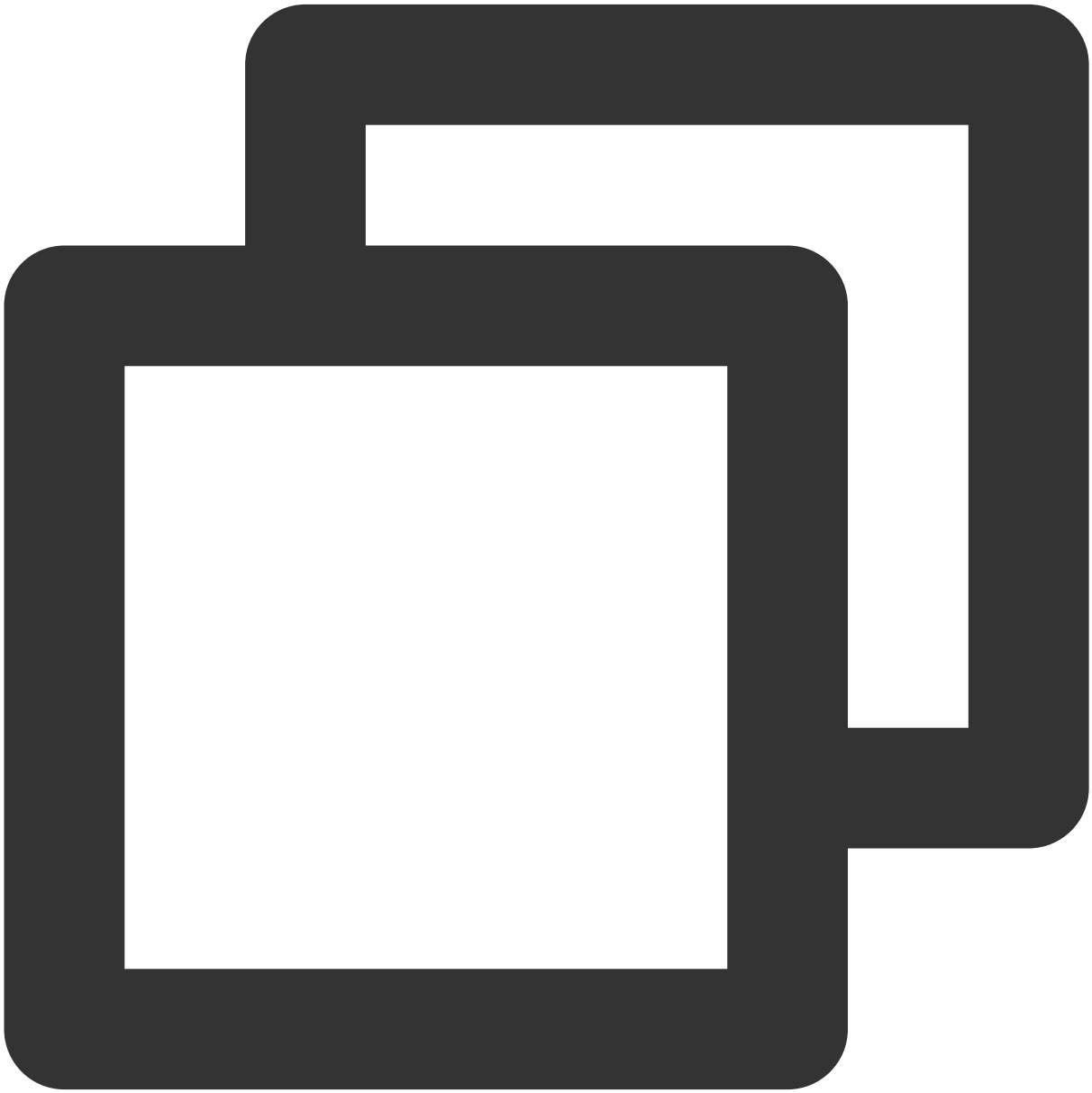
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Cropping

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2** API provided by CI to crop images, such as regular cropping, scaling and cropping, inscribed circle cropping, rounded corner cropping, and smart cropping.
An image can be processed:
Upon download
Upon upload
In cloud
Note:
Image processing is charged by CI. For detailed pricing, please see the image processing prices of CI.

Restrictions

Format: Currently, JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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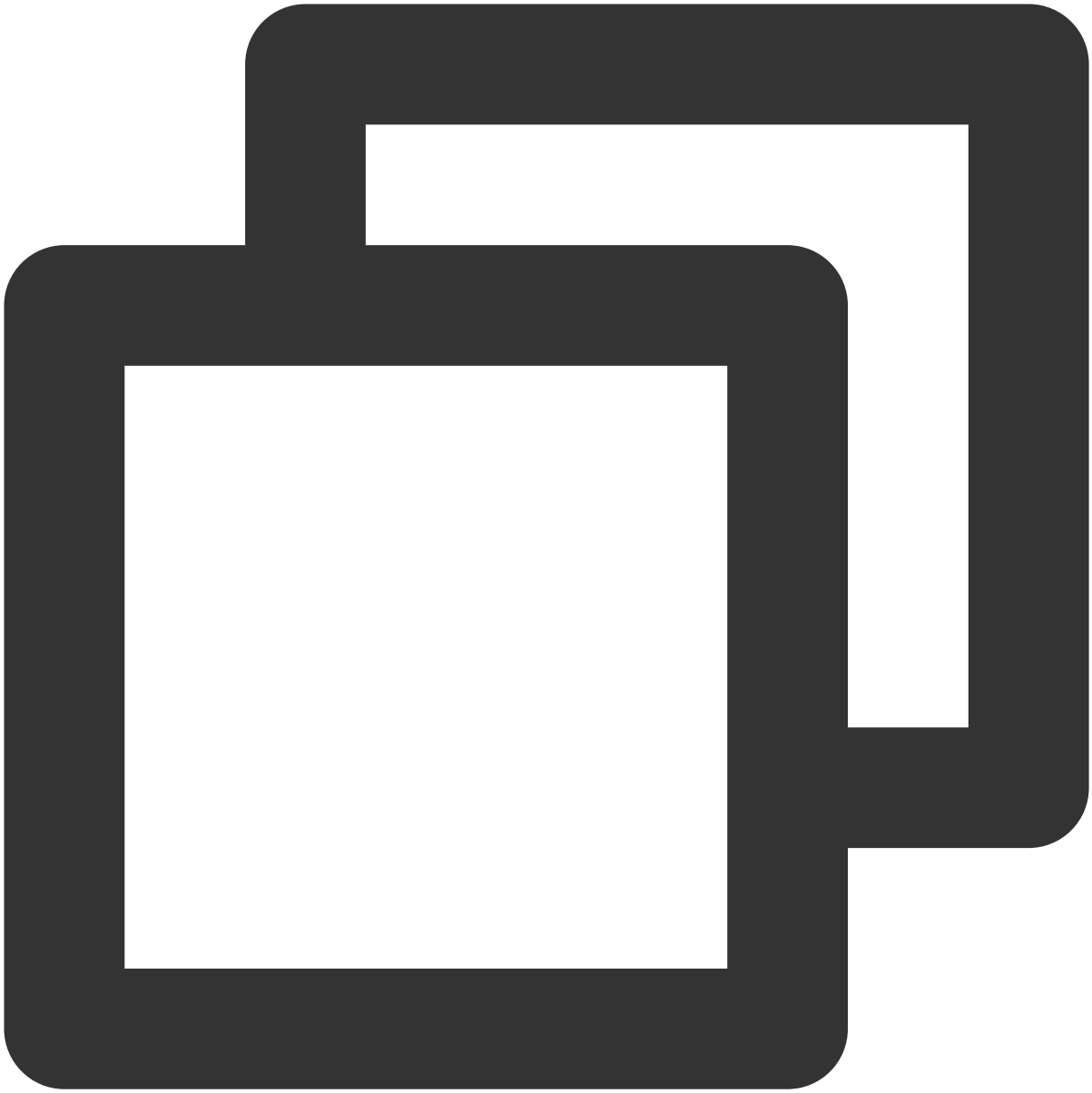

```
download_url?imageMogr2/cut/<width>x<height>x<dx>x<dy>
                        /crop/<imageSizeAndOffsetGeometry>
                        /iradius/<radius>
                        /rradius/<radius>
                        /scrop/<Width>x<Height>
```

Note:

Spaces and line breaks above are for readability only and can be ignored.

2. Processing upon upload

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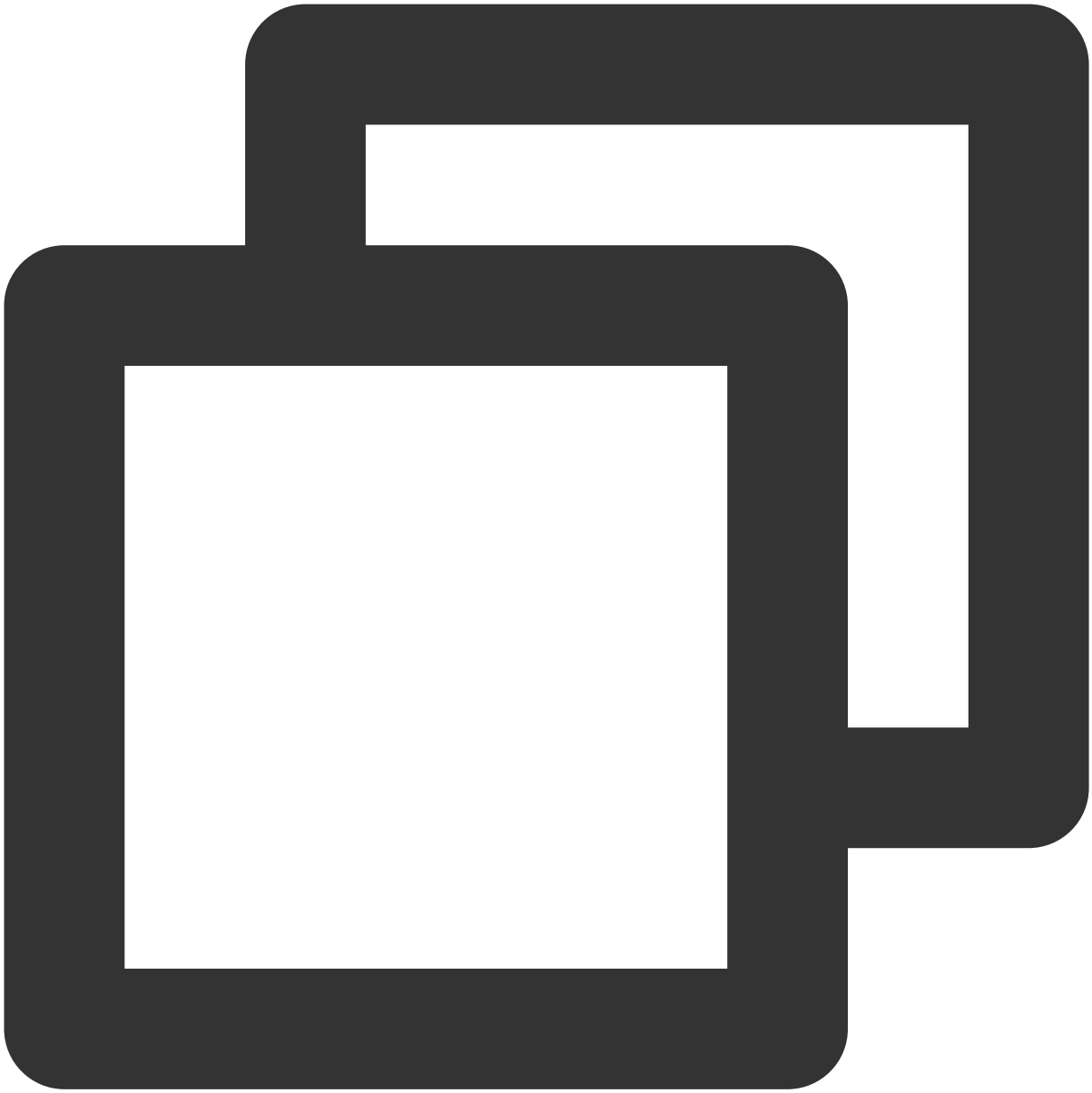

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/cut/<width>x<height>x<dx>x<dy>
                      /crop/<imageSizeAndOffsetGeometry>
```

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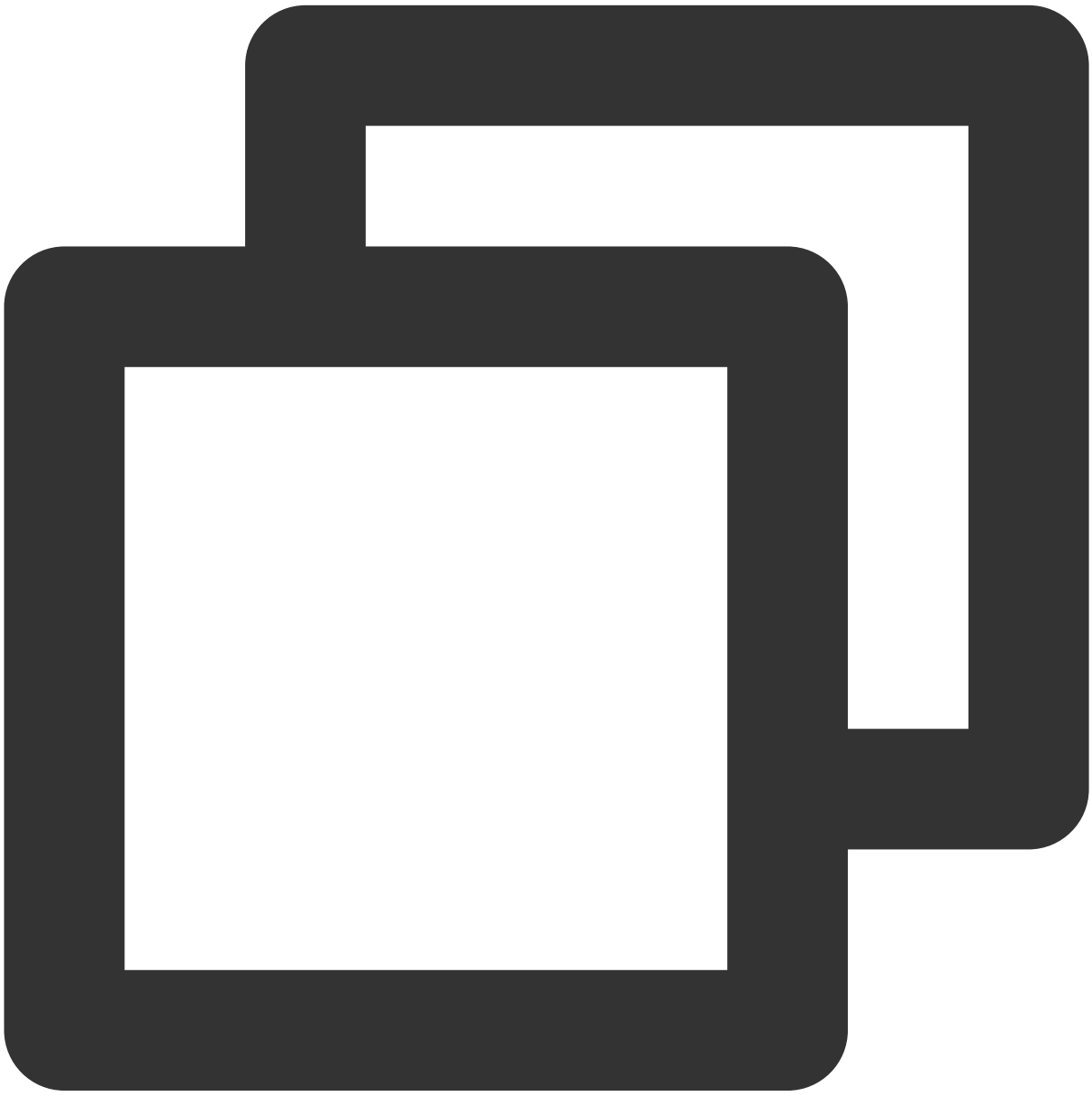
```
                        /iradius/<radius>
                        /rradius/<radius>
                        /scrop/<Width>x<Height>"
    }]
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
```

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```
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/cut/<width>x<height>x<dx>x<dy>
                      /crop/<imageSizeAndOffsetGeometry>
                      /iradius/<radius>
                      /rradius/<radius>
                      /scrop/<Width>x<Height>"
  }]
}
```

Note:

Authorization: Auth String (For more information, please see Request Signature.)

Parameters

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Parameters for regular cropping

Operation name: cut.

Parameter	Description
<width>	Width of the output image
<height>	Height of the output image
<dx>	Horizontal offset relative to the upper-left vertex
<dy>	Vertical offset relative to the upper-left vertex

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Note:

The values should be greater than 0 and smaller than the width/height of the input image.

Parameters for scaling and cropping

Operation name: crop.

Parameter	Description
/crop/<Width>x	Width of the output image with the height unchanged. The value must be greater than 0 and smaller than the width of the input image.
/crop/x<Height>	Height of the output image with the width unchanged. The value must be greater than 0 and smaller than the height of the input image.
/crop/<Width>x<Height>	Width and height of the output image. The values of width and height should be greater than 0 and smaller than those of the input image, respectively.

When performing scaling and cropping, you can also use the `gravity` parameter to specify the start position of the operation. For more information, see [Scaling and Cropping](#Scaling and cropping).

Parameters for inscribed circle cropping

Operation name: iradius.

Parameter	Description
/iradius/<radius>	Refers to the inscribed circle cropping feature, where `radius` specifies the radius of the inscribed circle. The value of `radius` is an integer that is greater than 0 and less than half the length of the shorter side of the original image. The center of the inscribed circle is the center of the original image. This parameter is not supported if the image format is GIF.

Parameters for rounded corner cropping

Operation: rradius

Parameter	Description
/rradius/<radius>	Refers to the rounded corner cropping feature, where `radius` specifies the radius of the rounded corner of the image. The value of `radius` is an integer that is greater than 0 and less than half the length of the shorter side of the original image. The rounded corner is tangent to the edge of the original image. This parameter is not supported if the image format is GIF.

Parameters for smart cropping

Operation name: scrop.

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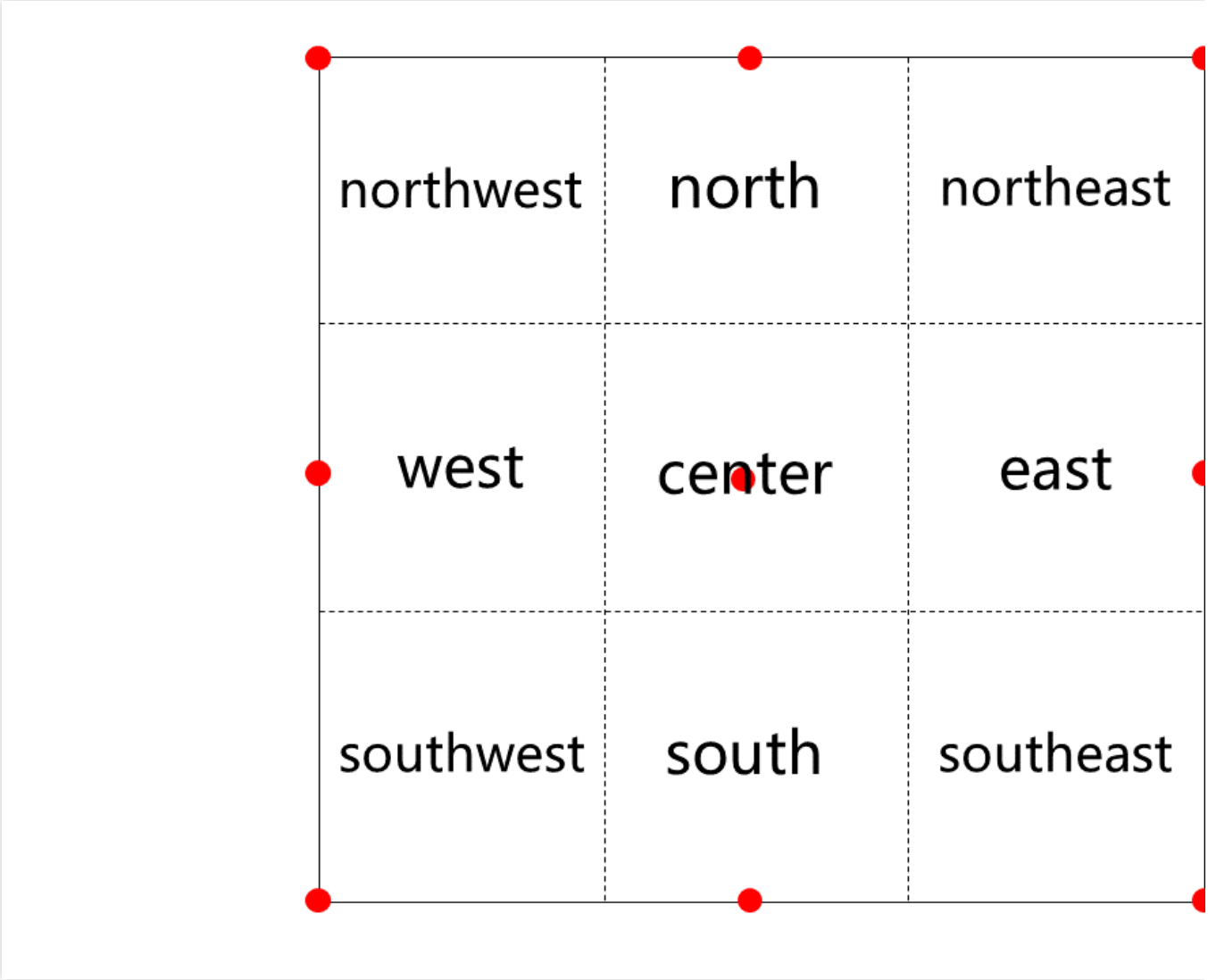
Parameter	Description
/scrop/<Width>x<Height>	Refers to scaling and cropping based on the location of the human face in the image. `Width` and `Height` respectively specify the width and the height of the target image.

3x3 Grid Position Diagram

The 3x3 grid position diagram is as follows. Once you specify the `gravity` parameter for an operation, the corresponding red dot becomes the reference point, and offsets will be relative to this point.



Note:

If `gravity` is set to `center`, `dx` and `dy` are invalid.

If `gravity` is set to `north` or `south`, `dx` is invalid.

If `gravity` is set to `west` or `east`, `dy` is invalid.

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Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: regular cropping

This example shows how to translate by 100 pixels horizontally to the right and 10 pixels vertically to the bottom relative to the top-left vertex of the image. It also shows how to crop the image according to the specified target image resolution of 600 × 600 pixels:

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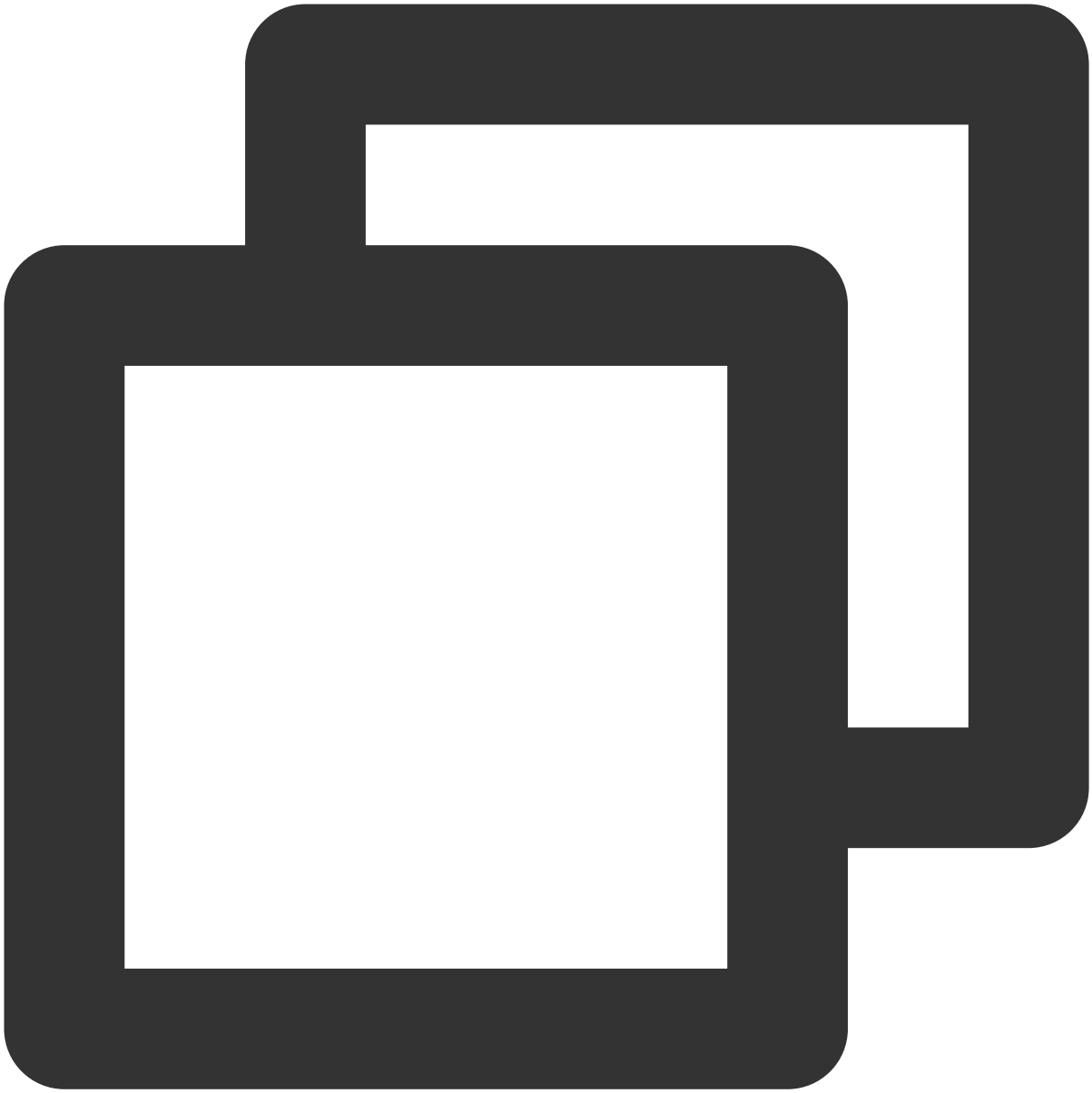

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/cut/
```

Input image:

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Output image:

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Example 2: scaling and cropping

This example shows you how to scale and crop an image to 300x400 by using the center as the reference point.

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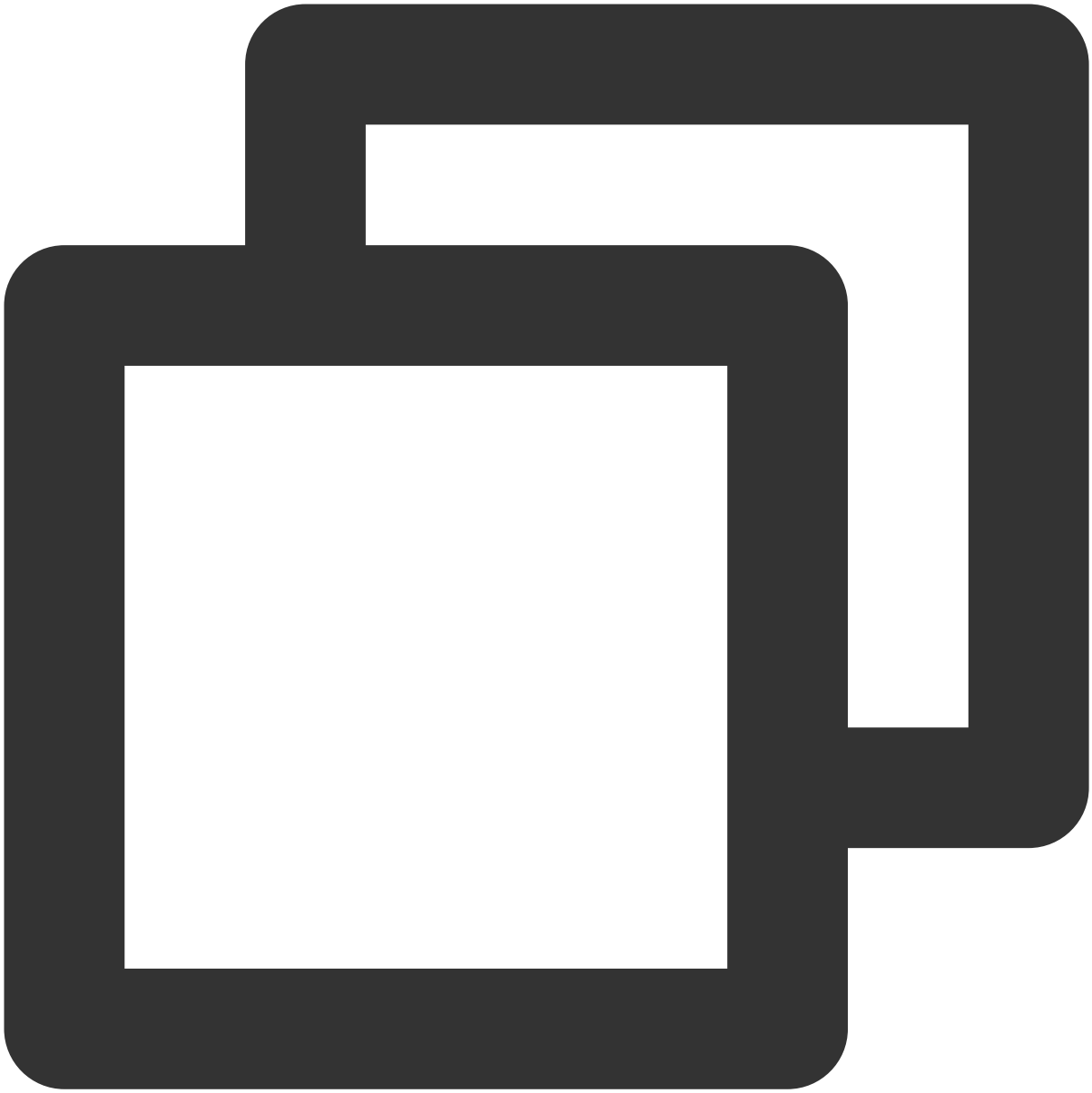

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/crop
```

Output image:

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Example 3: inscribed circle cropping

This example shows you how to perform inscribed circle cropping when the radius is 200.

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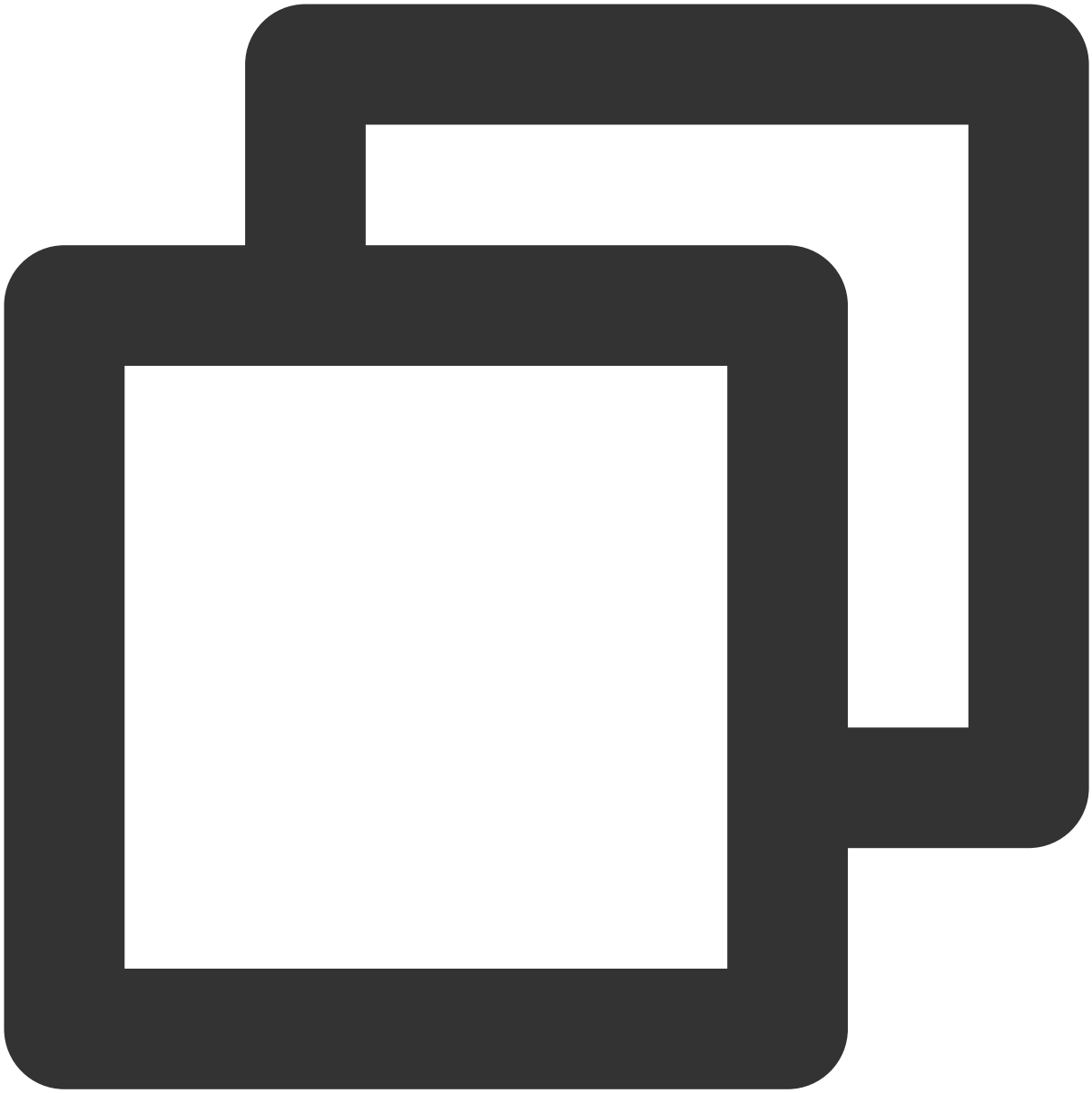

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/irad
```

Output image:

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Example 4: rounded corner cropping

This example shows you how to perform rounded corner cropping when the radius is 100.

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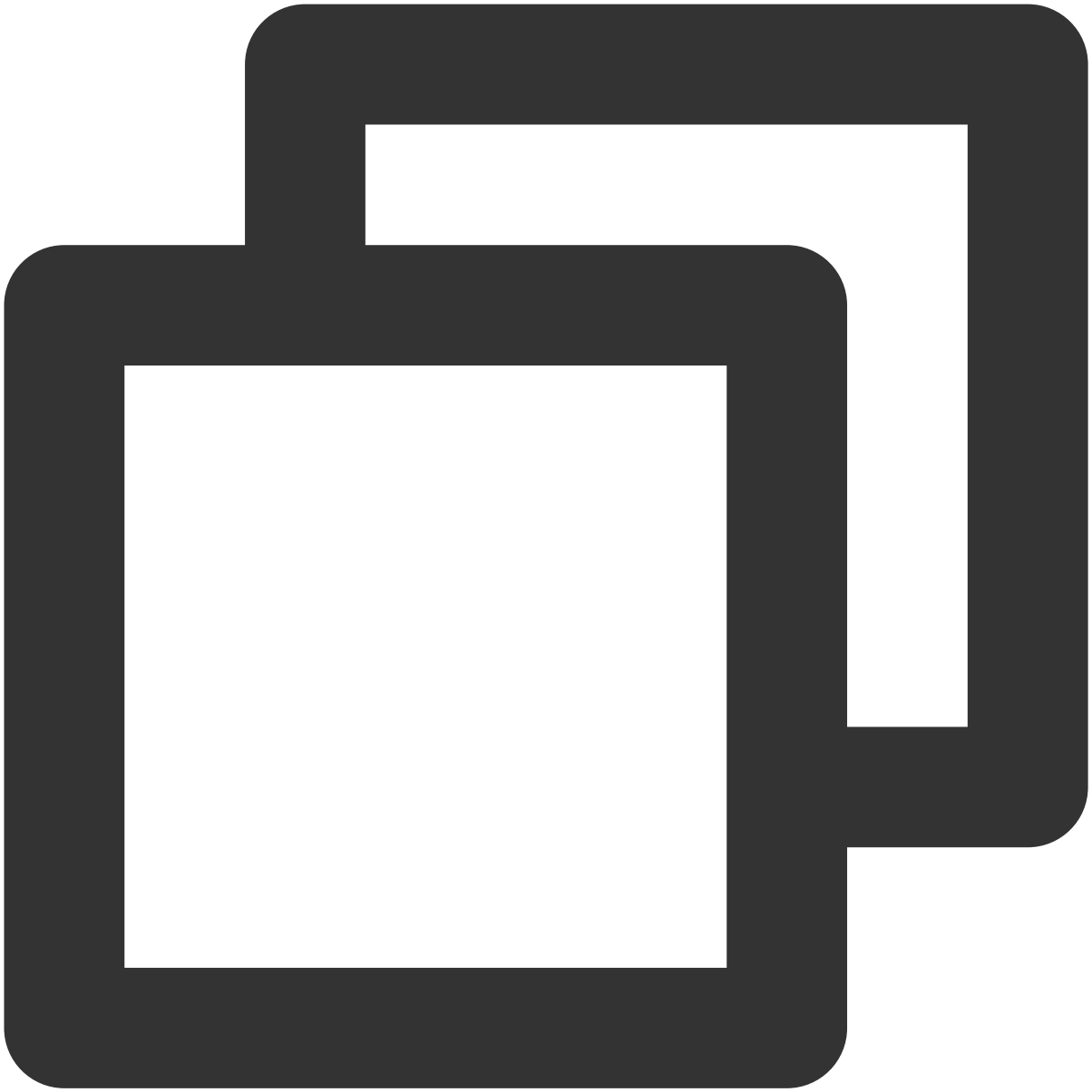

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/rrad
```

Output image:

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Example 5: smart cropping

This example shows how to crop an image to the specified resolution of 100 × 600 pixels based on the location of the human face in the image:

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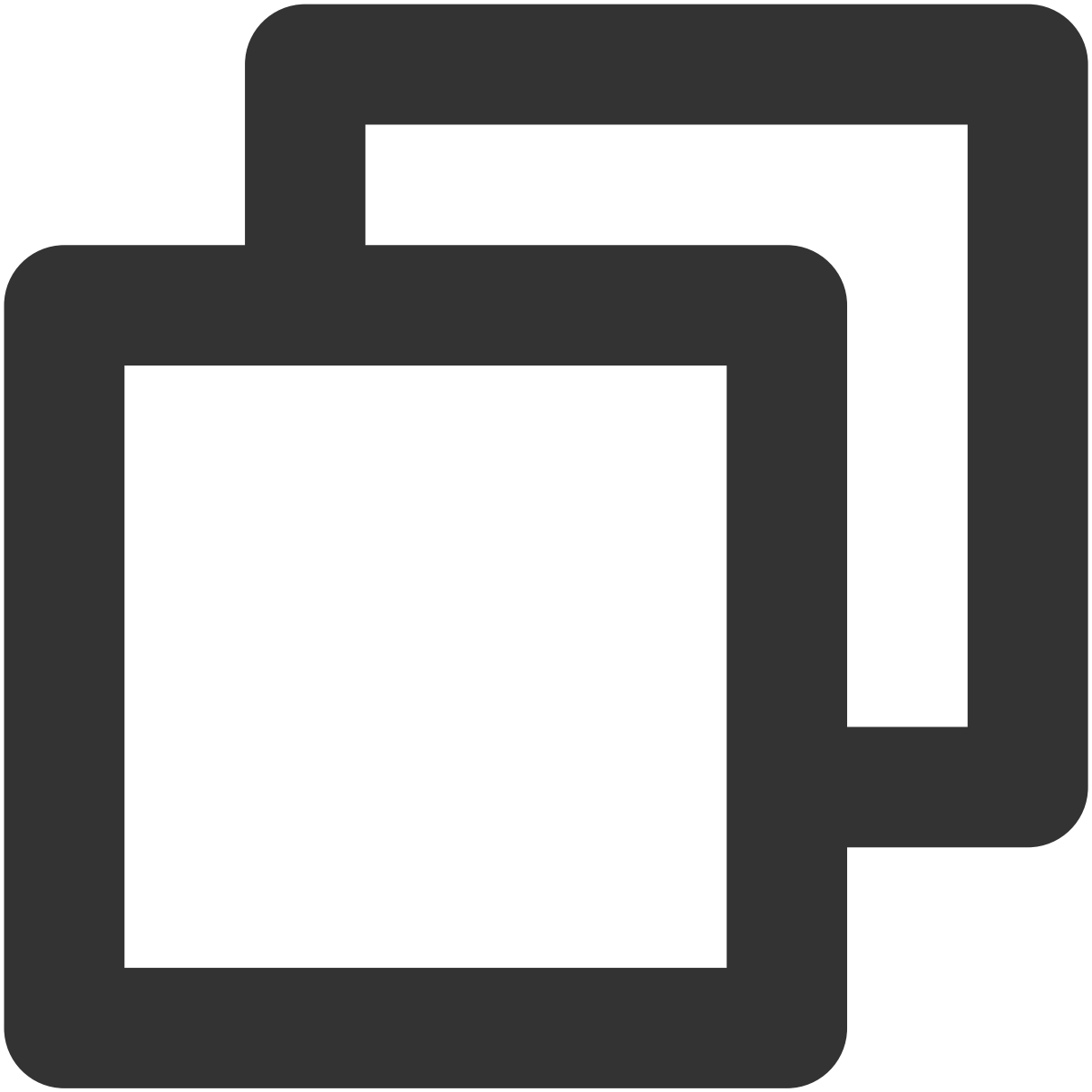

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/scro
```

Note:

If no face is recognized, the input image will be returned.

Example 6: smart cropping with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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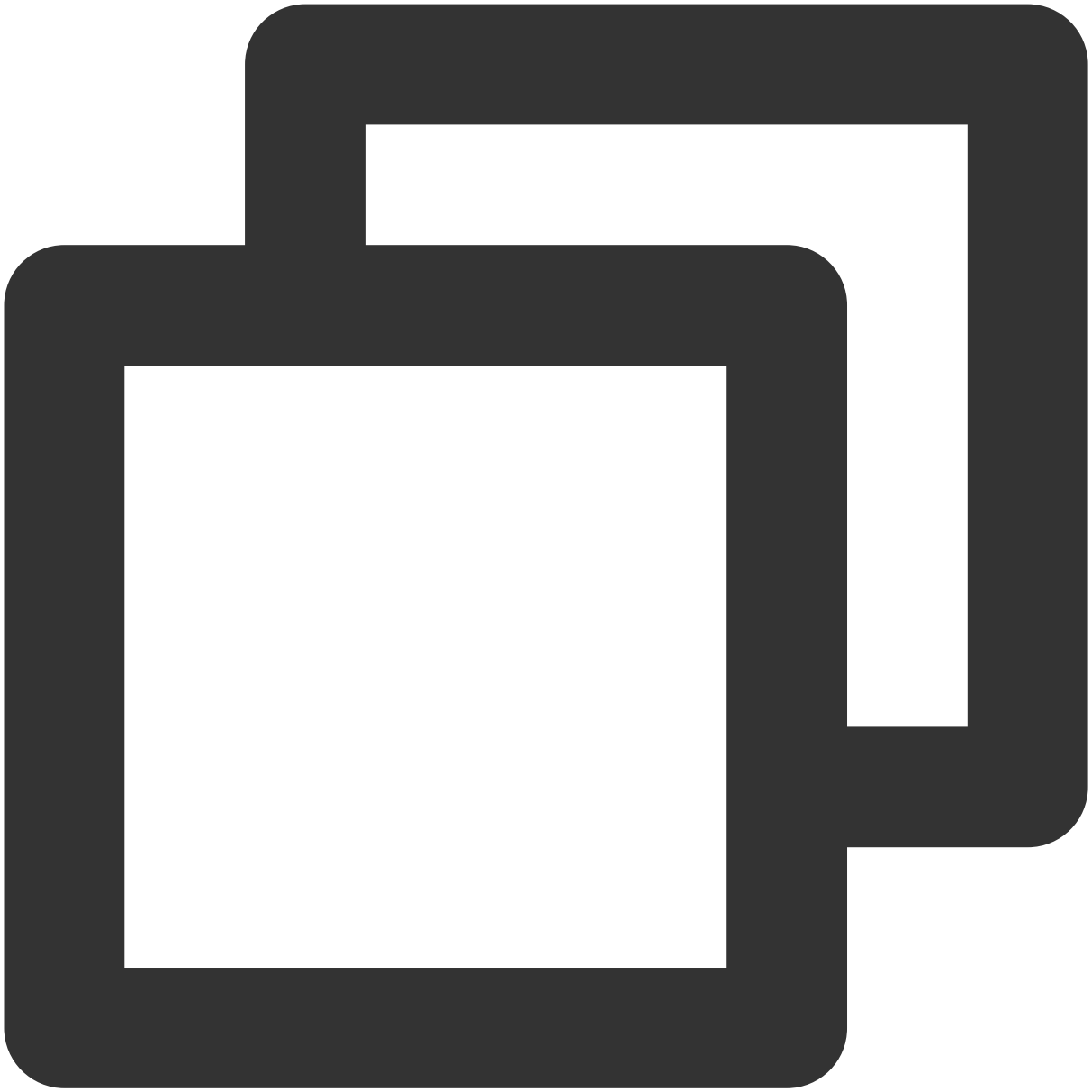

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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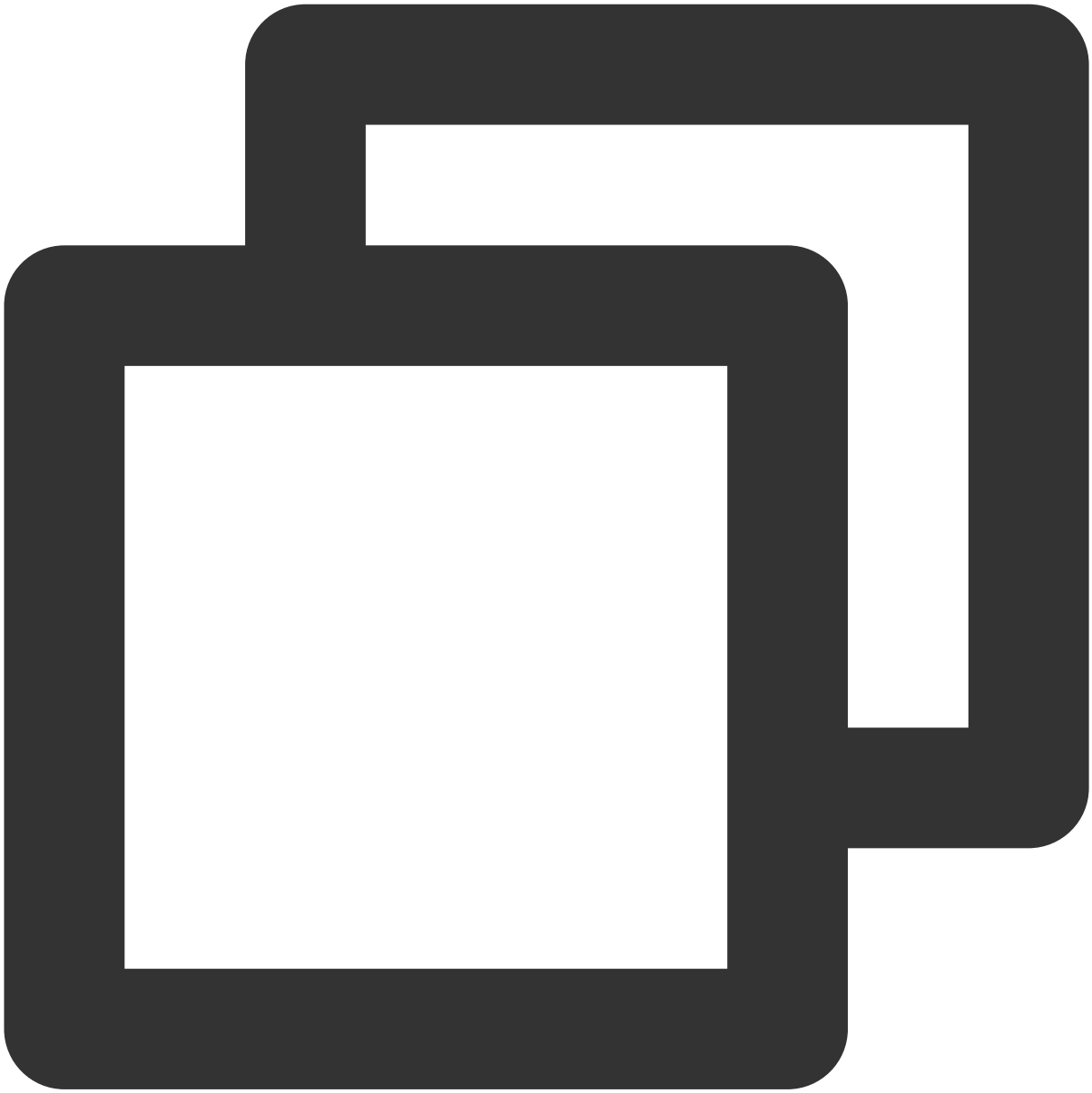
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Rotation

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2** API provided by CI to rotate an image by a specified angle or automatically.
An image can be processed:
Upon download
Upon upload
In cloud
Note:
Image processing is charged by CI. For detailed pricing, please see the image processing prices of CI.

Restrictions

Format: Currently, JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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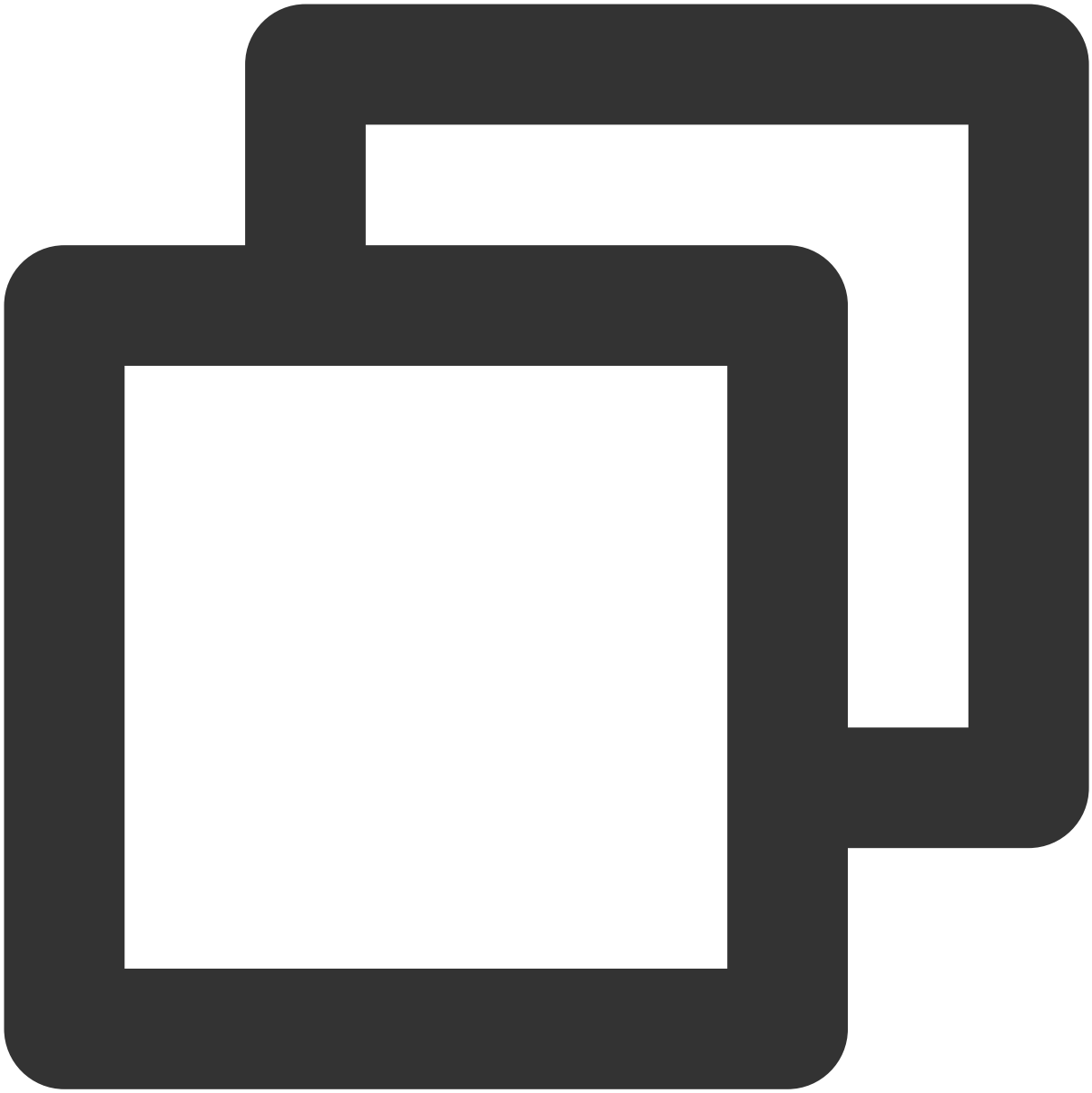

```
download_url?imageMogr2/rotate/<rotateDegree>
                        /auto-orient
```

Note:

Spaces and line breaks above are for readability only and can be ignored.

2. Processing upon upload

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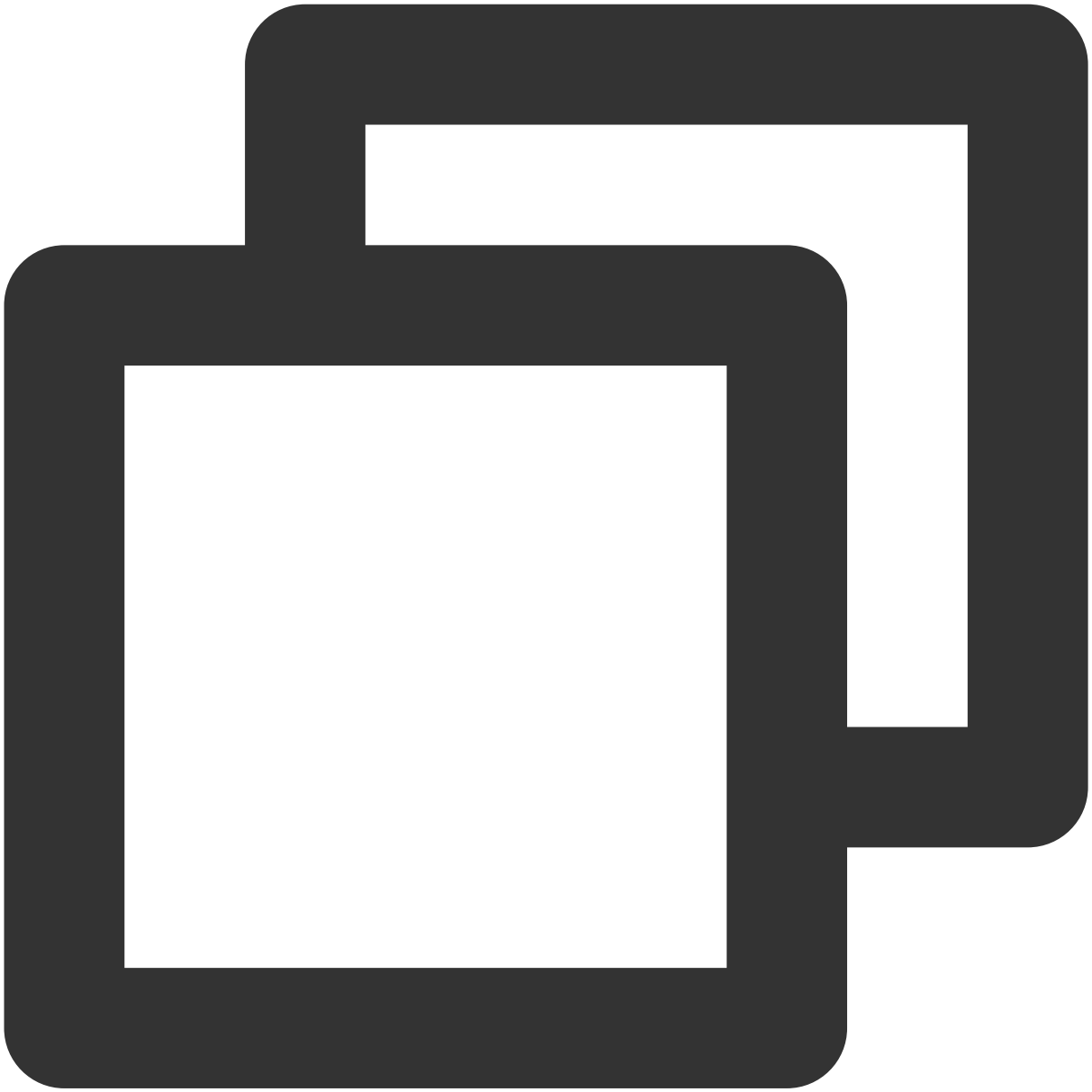

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/rotate/<rotateDegree>
                      /auto-orient"
```

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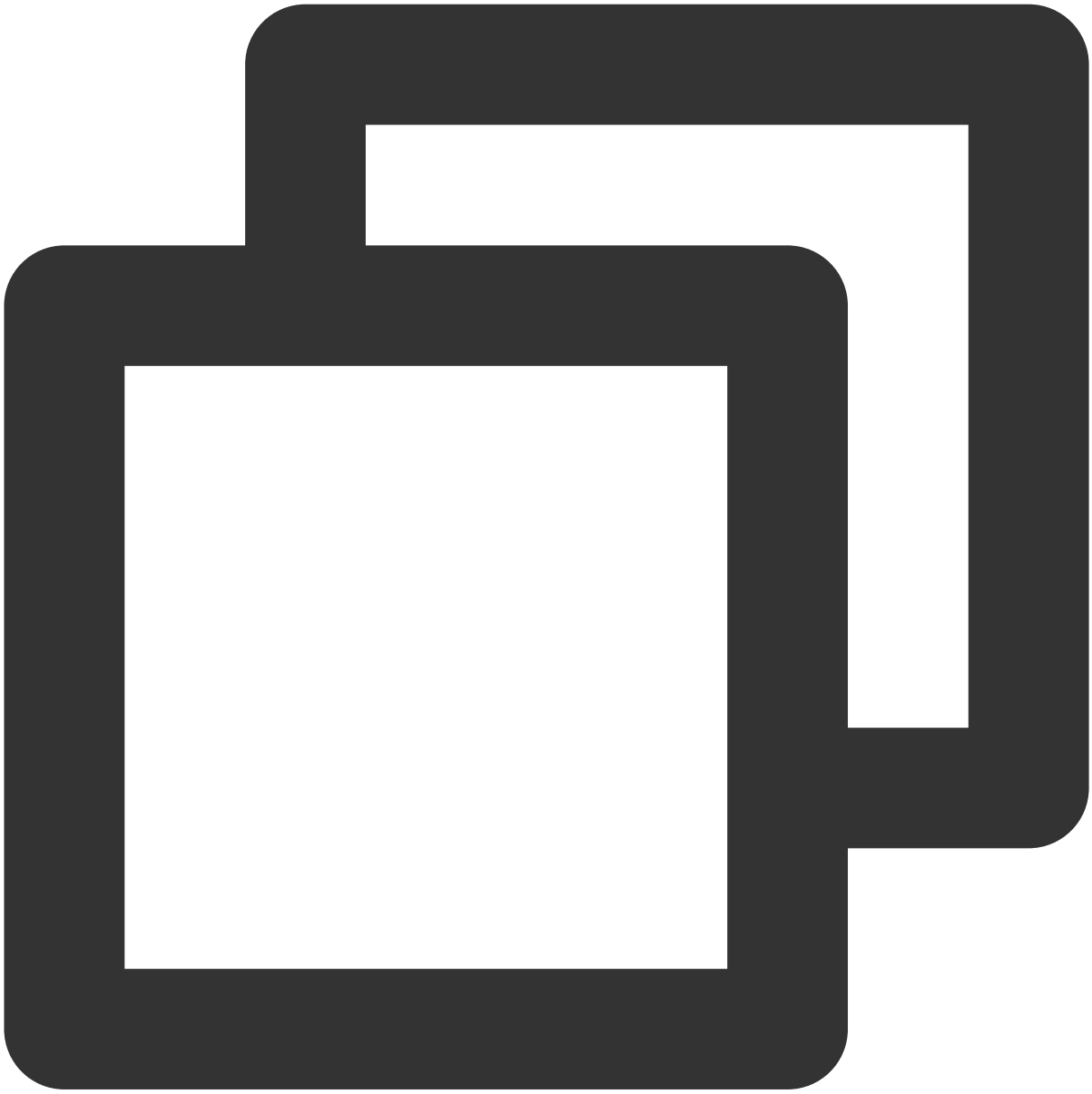
```
    }]
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
```

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```
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/rotate/<rotateDegree>
                        /auto-orient"
  }]
}
```

Note:

Authorization: Auth String (For more information, please see Request Signature.)

Parameters

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/rotate/<rotateDegree>	Rotates an image clockwise by a specified angle. Value range: 0–360. By default, the image is not rotated.
/auto-orient	Auto-rotates an image based on its EXIF orientation tag.
/flip/<flip>	Flips an image. Valid values: `vertical` , `horizontal`
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: rotating an image by a specified angle

This example rotates an image clockwise by 90 degrees:

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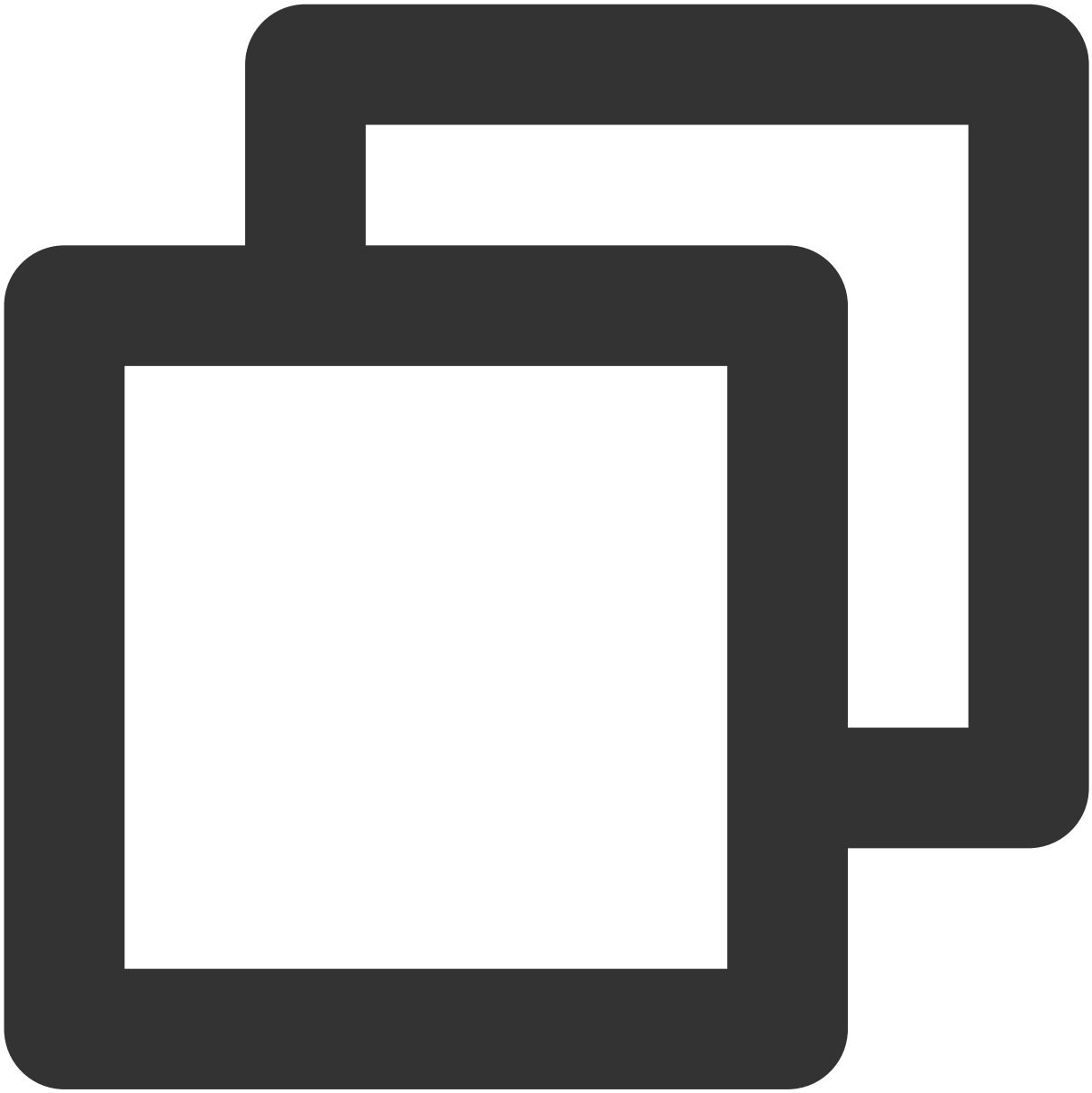

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/rota
```

Output image:



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Example 2: rotating an image by a specified angle with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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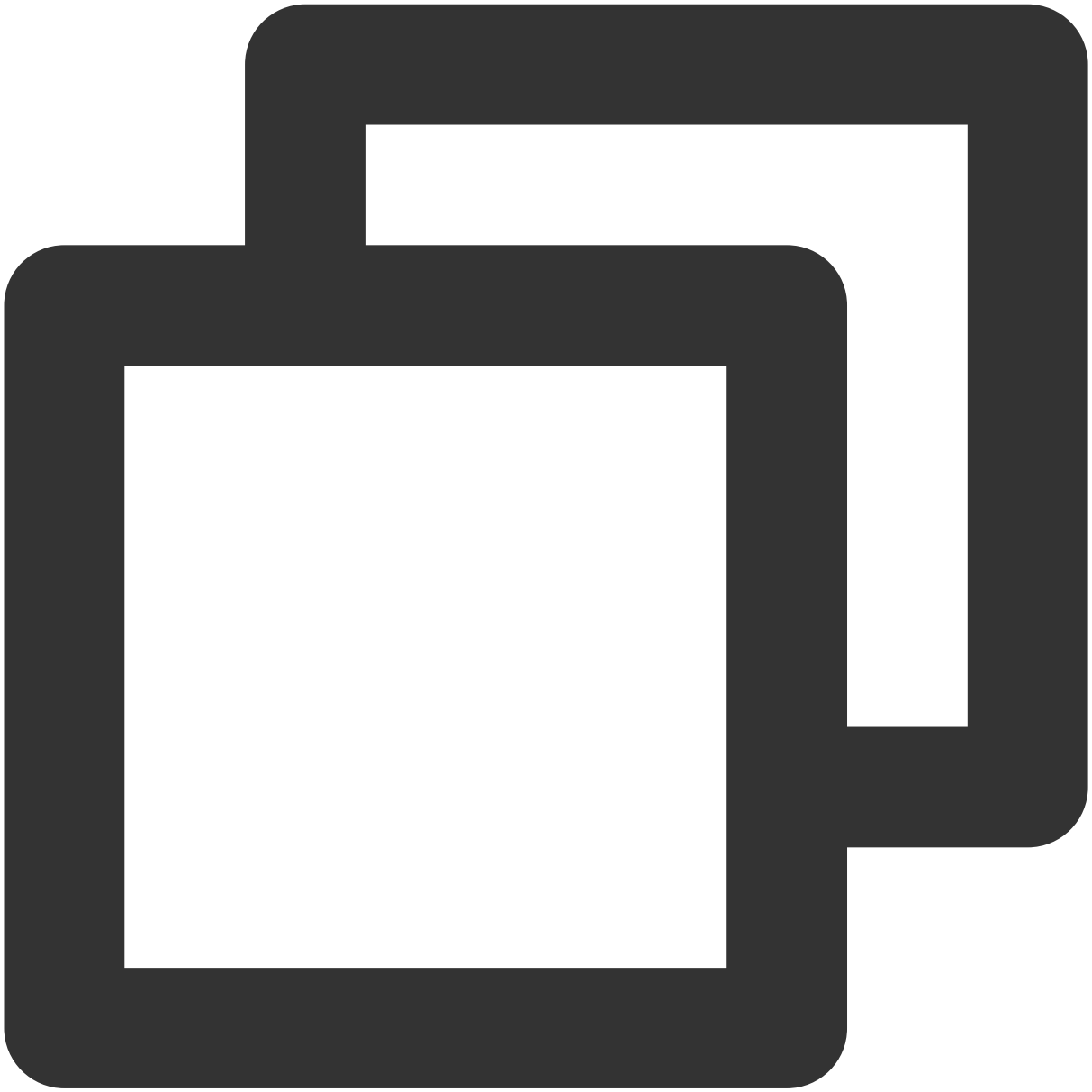

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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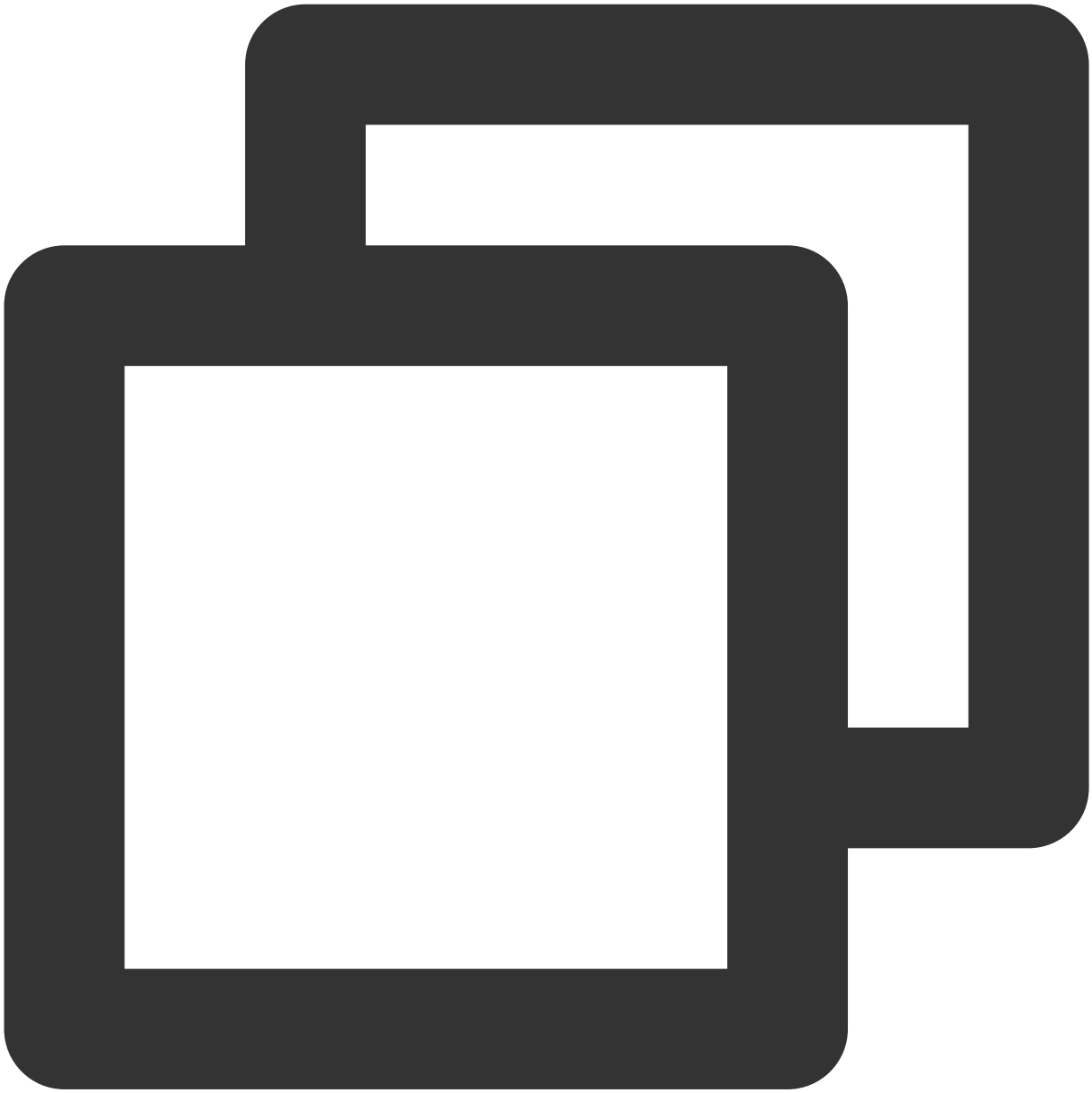
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Converting Format

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2** API provided by CI to perform format conversion, GIF optimization, and progressive display.
An image can be processed:
Upon download
Upon upload
In cloud
Note:
Image processing is charged by CI. For detailed pricing, please see the image processing prices of CI.

Restrictions

Animated image formats such as GIF, WebP, and TPG can be interconverted.
Static image formats such as JPG, PNG, BMP, TPG, and HEIF can be interconverted.

API Format

1. Processing upon download

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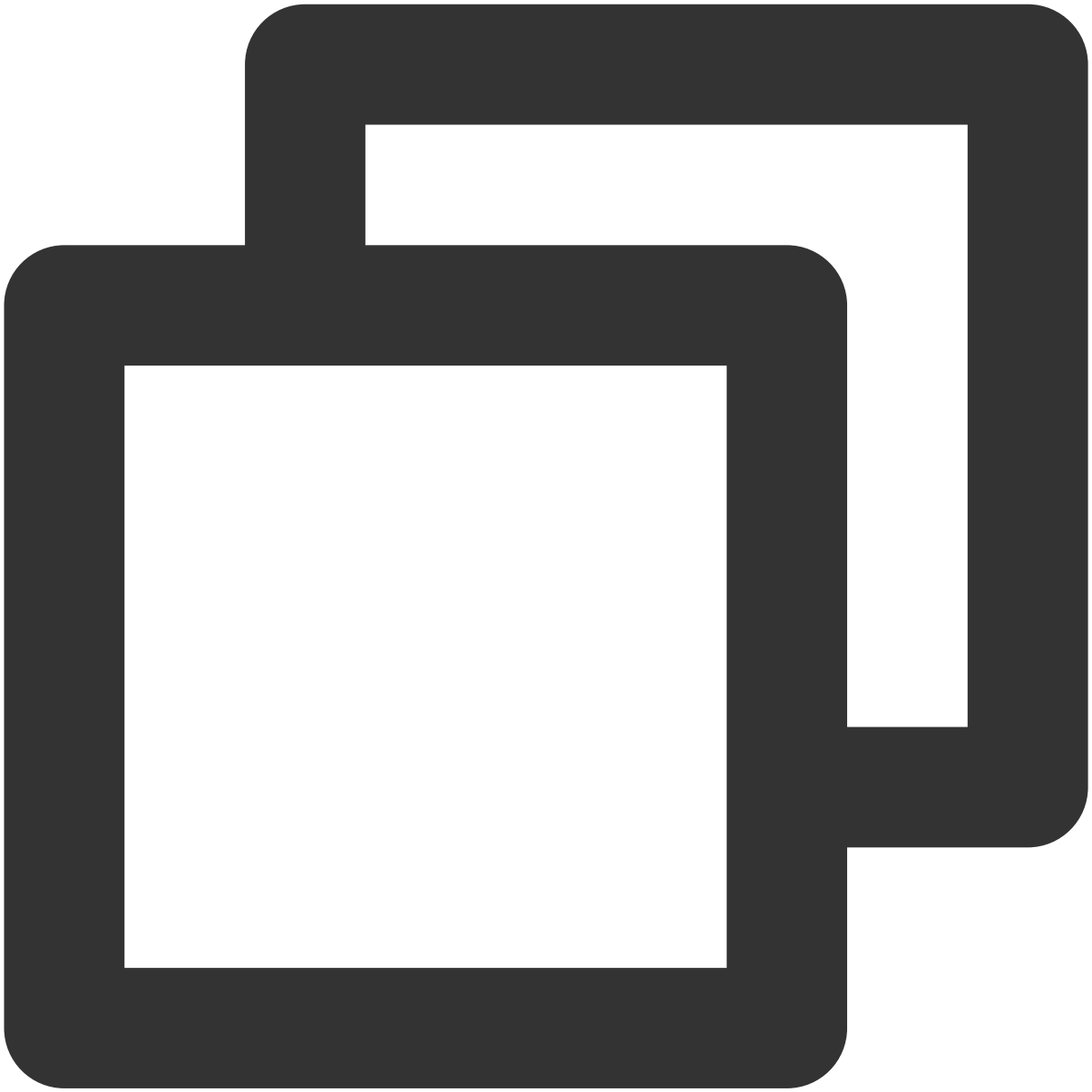

```
download_url?imageMogr2/format/<Format>
                       /cgif/<FrameNumber>
                       /interlace/<Mode>
```

2. Processing upon upload

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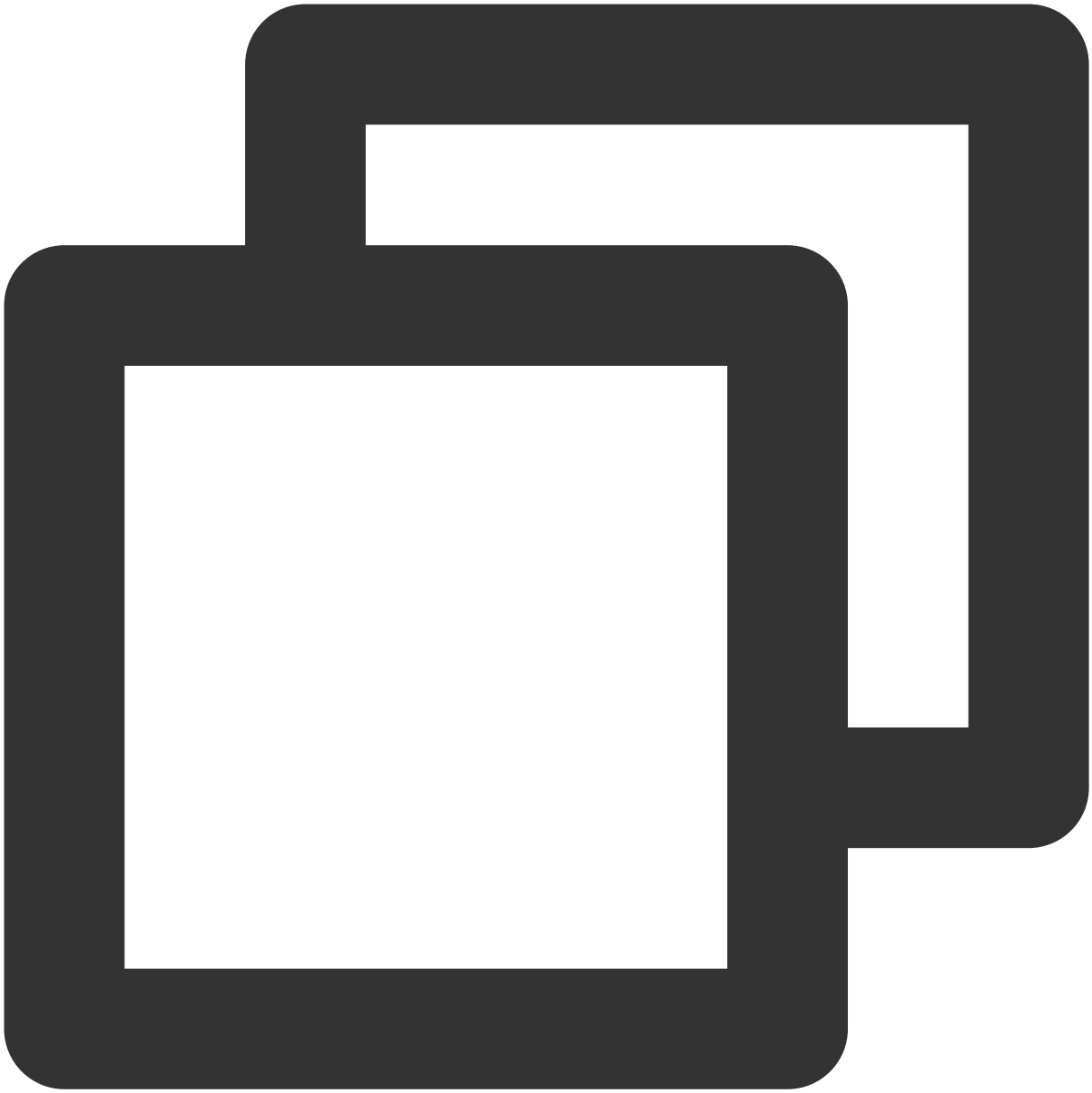

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/format/<Format>
                      /cgif/<FrameNumber>
```

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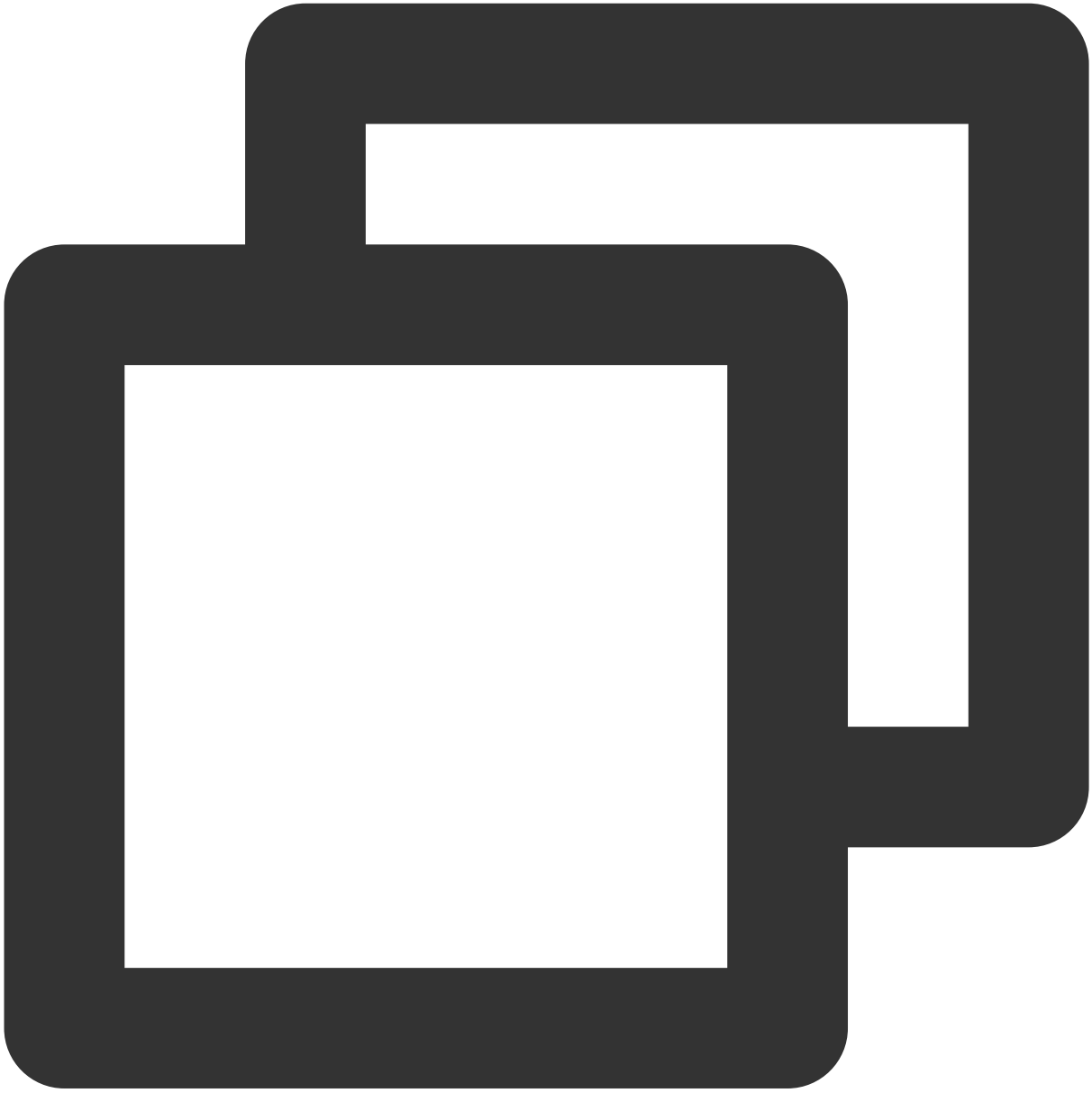
```
                        /interlace/<Mode>"
  }]
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
```

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```
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/format/<Format>
                      /cgif/<FrameNumber>
                      /interlace/<Mode>"
  }]
}
```

Note:

Authorization: Auth String (For more information, please see Request Signature.)

Parameters

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/format/<Format>	Converts the image format. The target format can be JPG, BMP, GIF, PNG, WebP, or YJPEG (a JPEG-based format optimized by CI). Default format: format of the input image
/cgif/<FrameNumber>	Optimizes a GIF image by reducing the number of frames and colors. Valid values of `FrameNumber`: `1`: cuts the input GIF to the default number of frames (30). If the original number of frames is greater than 30, the exceeded frames will be cut. (1,100]: compresses the image to the specified number of frames.
/interlace/<Mode>	Progressive mode of the output JPG image. Valid values of `Mode`: `0` (default): disables the progressive mode. `1`: enables the progressive mode. This parameter takes effect only when the output image is in JPG format. Otherwise, this parameter will be ignored.
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

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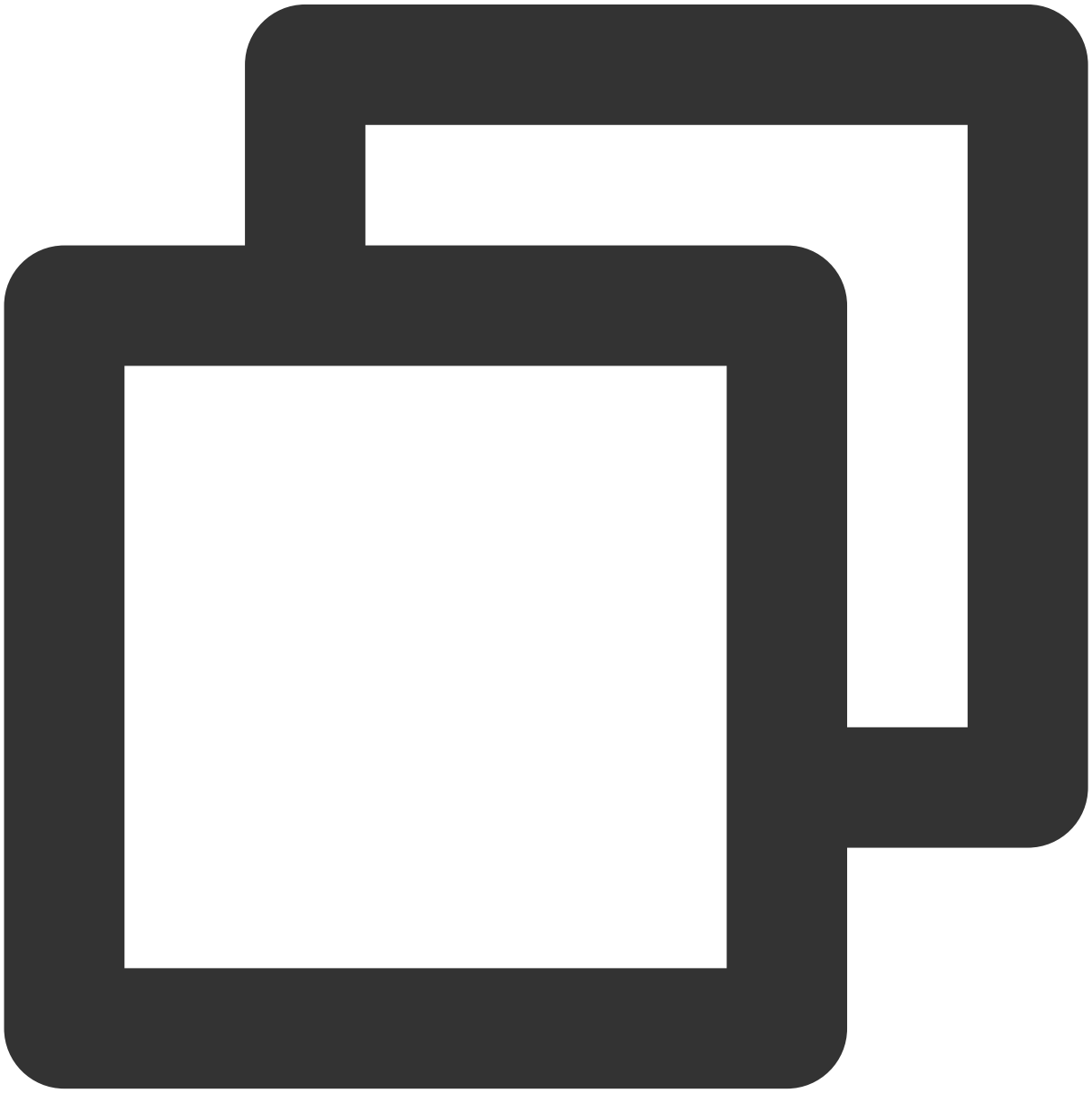
Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: converting a JPEG image into PNG format



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/form
```

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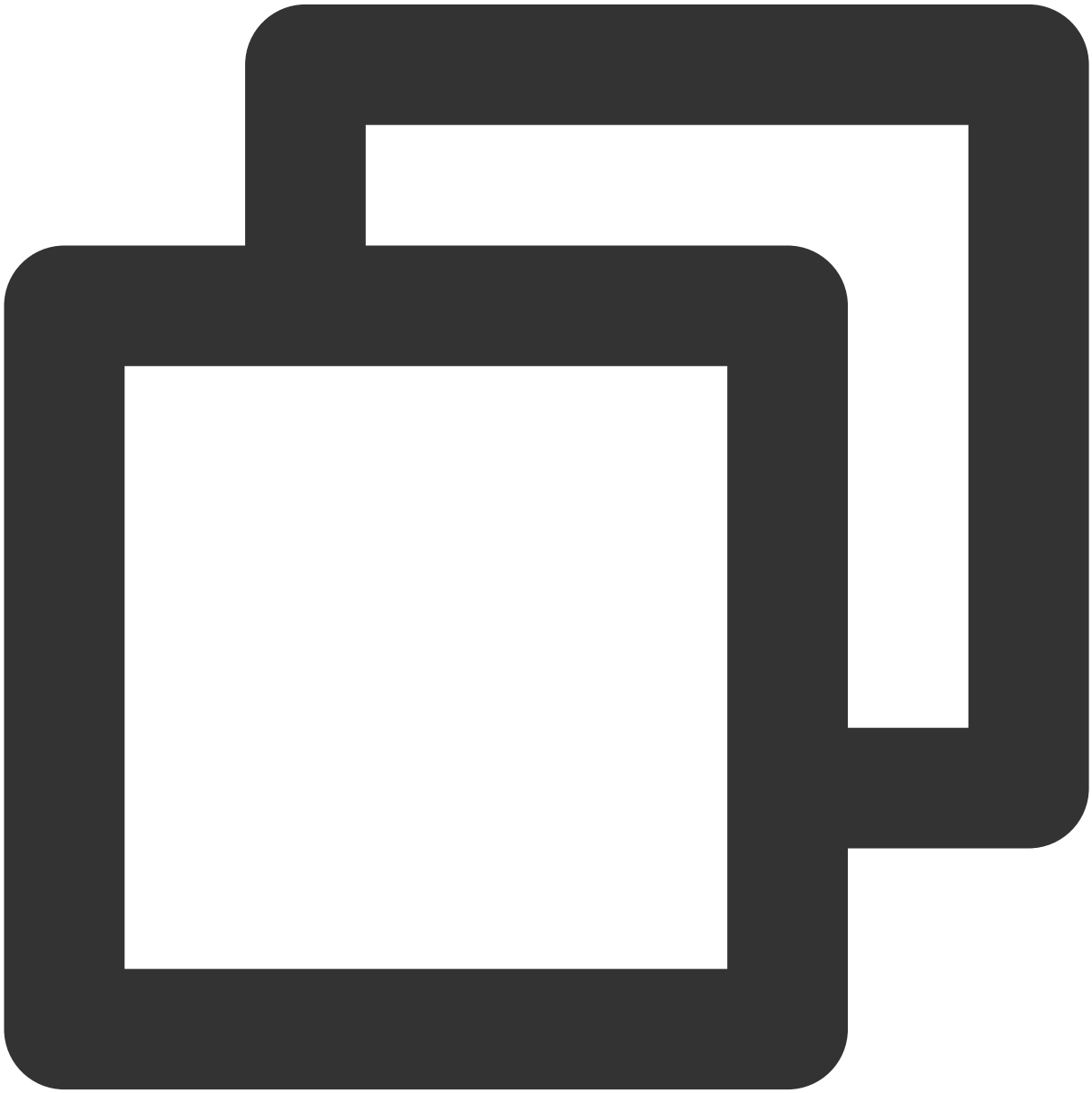
Example 2: converting a JPEG image into PNG format with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

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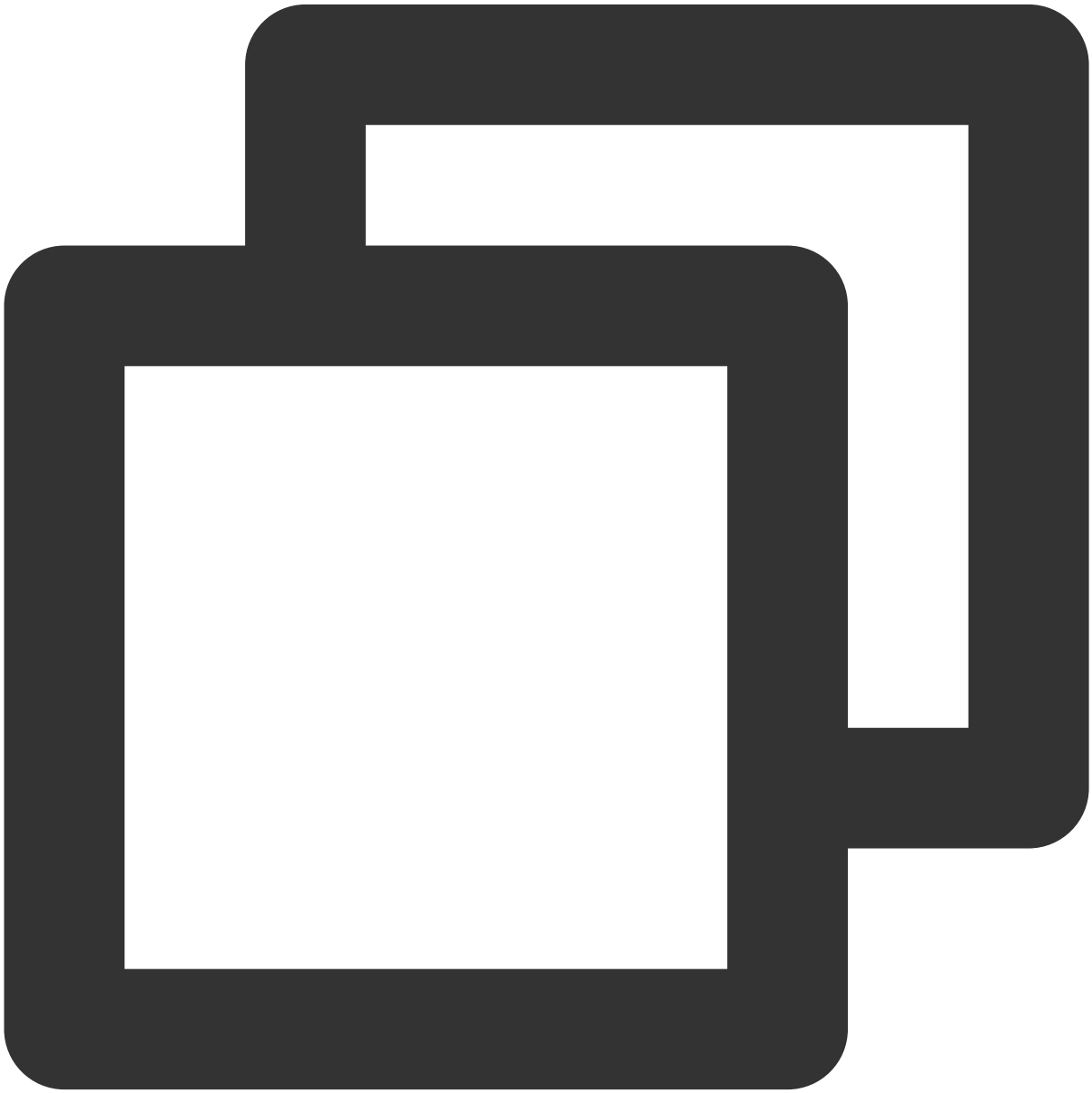
Notes

To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Quality Change

Last updated：2024-06-12 15:20:05

Feature Overview

COS uses the **imageMogr2** API provided by CI to adjust the quality of an image.

An image can be processed:

Upon download

Upon upload

In cloud

Note:

Image Processing is charged by CI. For detailed pricing, see Image Processing Fees.

This API supports images in JPG, WebP, TPG, HEIF, or AVIF format.

API Format

1. Processing upon download

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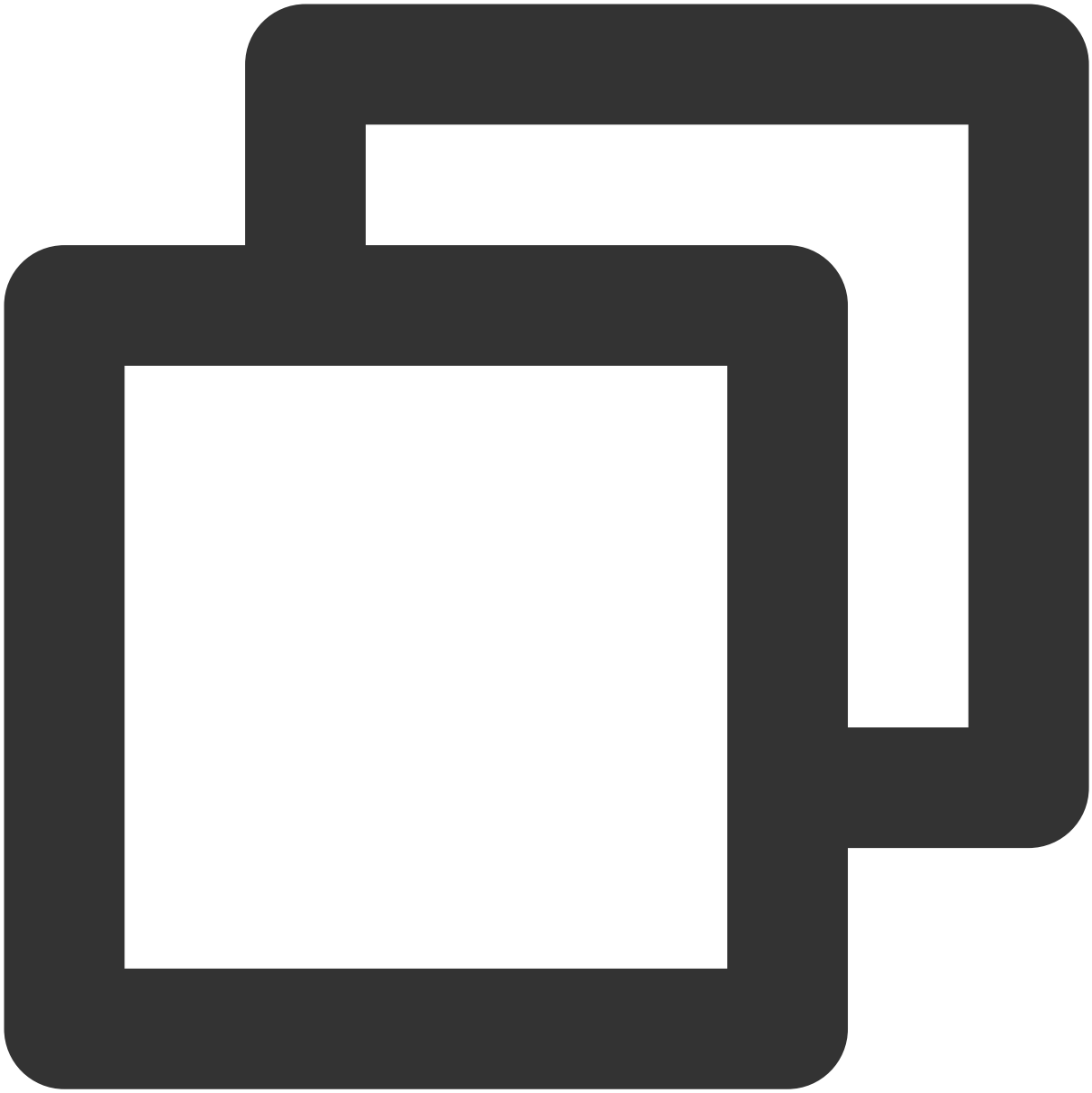

```
GET /<ObjectKey>?imageMogr2/quality/<Quality>
                      /rquality/<quality>
                      /lquality/<quality> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

2. Processing upon upload

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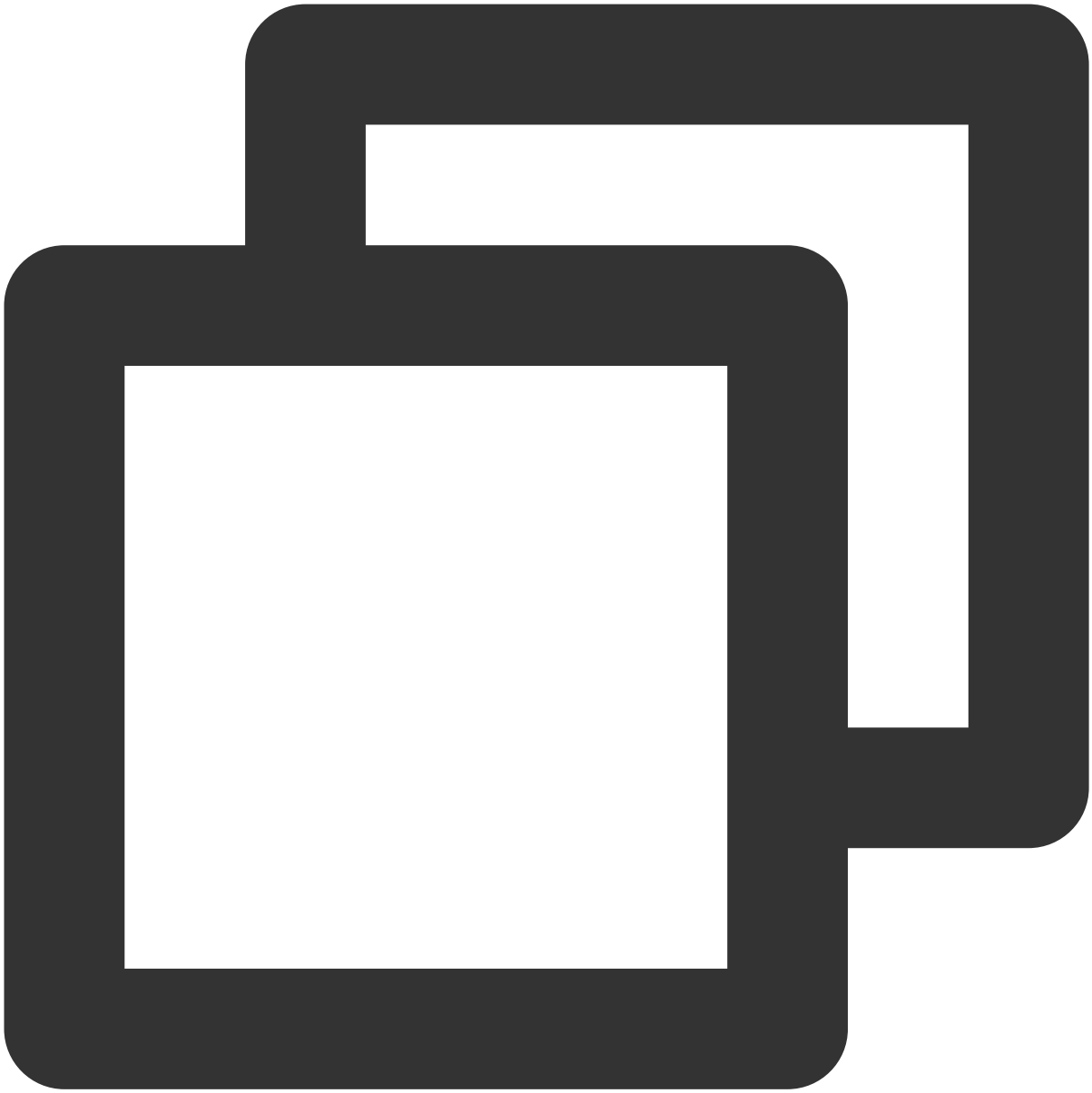

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/quality/<Quality>
                      /rquality/<quality>
```

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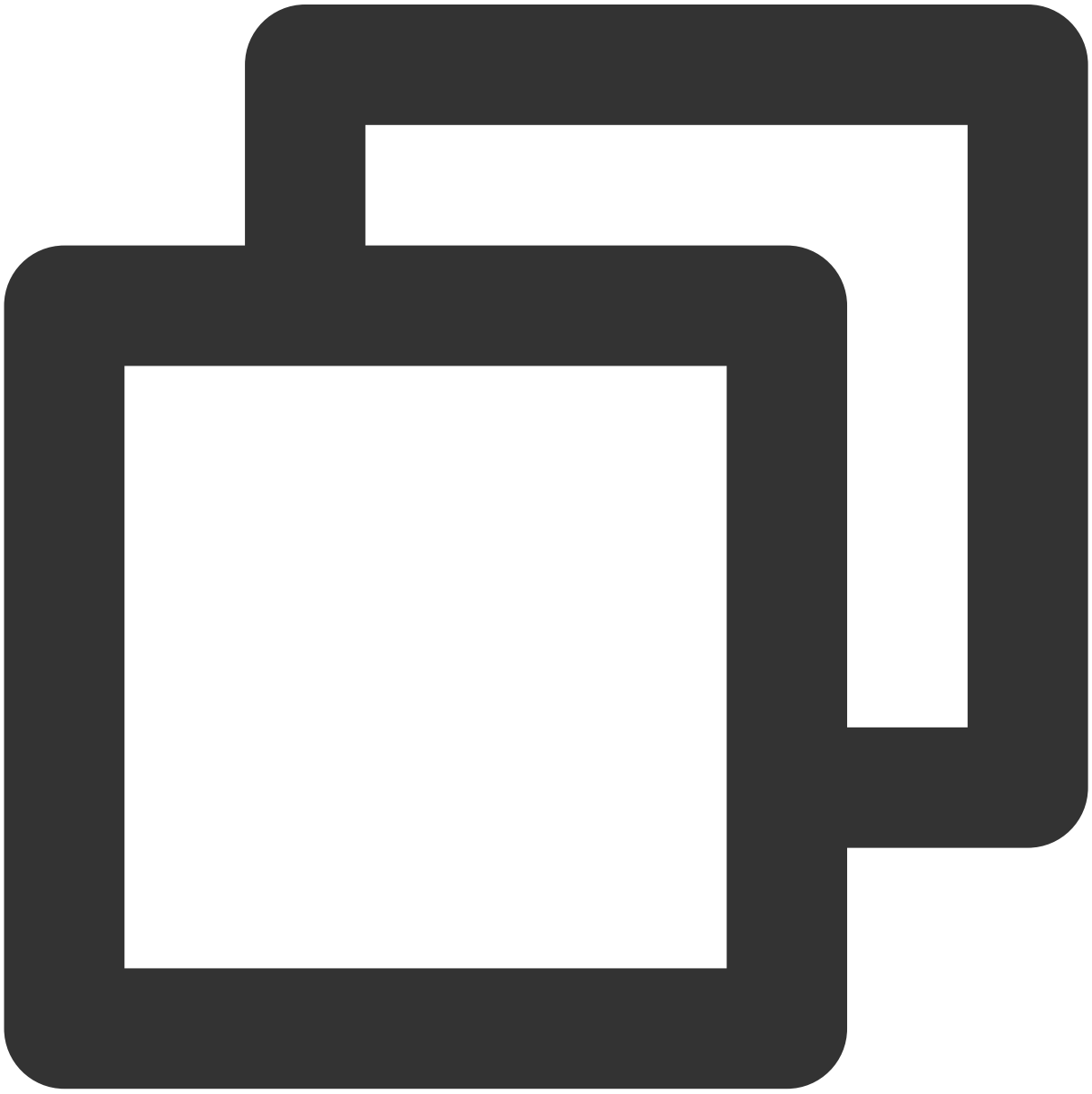
```
                        /lquality/<quality>"
    }]
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
```

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```
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/quality/<Quality>
                        /rquality/<quality>
                        /lquality/<quality>"
  }]
}
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Parameters

Operation: quality

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg` .
/quality/<Quality>	Absolute quality of the image. Value range: 0–100. Default value: quality of the input image. The smaller value between the input image quality and the specified quality is used. If there is an exclamation mark (!) after `<Quality>` (for example, `90!`), the specified quality is used.
/rquality/<quality>	Relative quality of the image, relative to that of the input image. Value range: 0–100. For example, if the input image quality is 80 and `rquality` is set to `80` , the quality of the output image is 64 (that is, 80 x 80%).
/lquality/<quality>	The lowest quality of the output image. Value range: 0–100. If the input image quality is 85 and `lquality` is set to `80` , the quality of the output image is 85. If the input image quality is 60 and `lquality` is set to `80` , the quality of the output image will be improved to 80.
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

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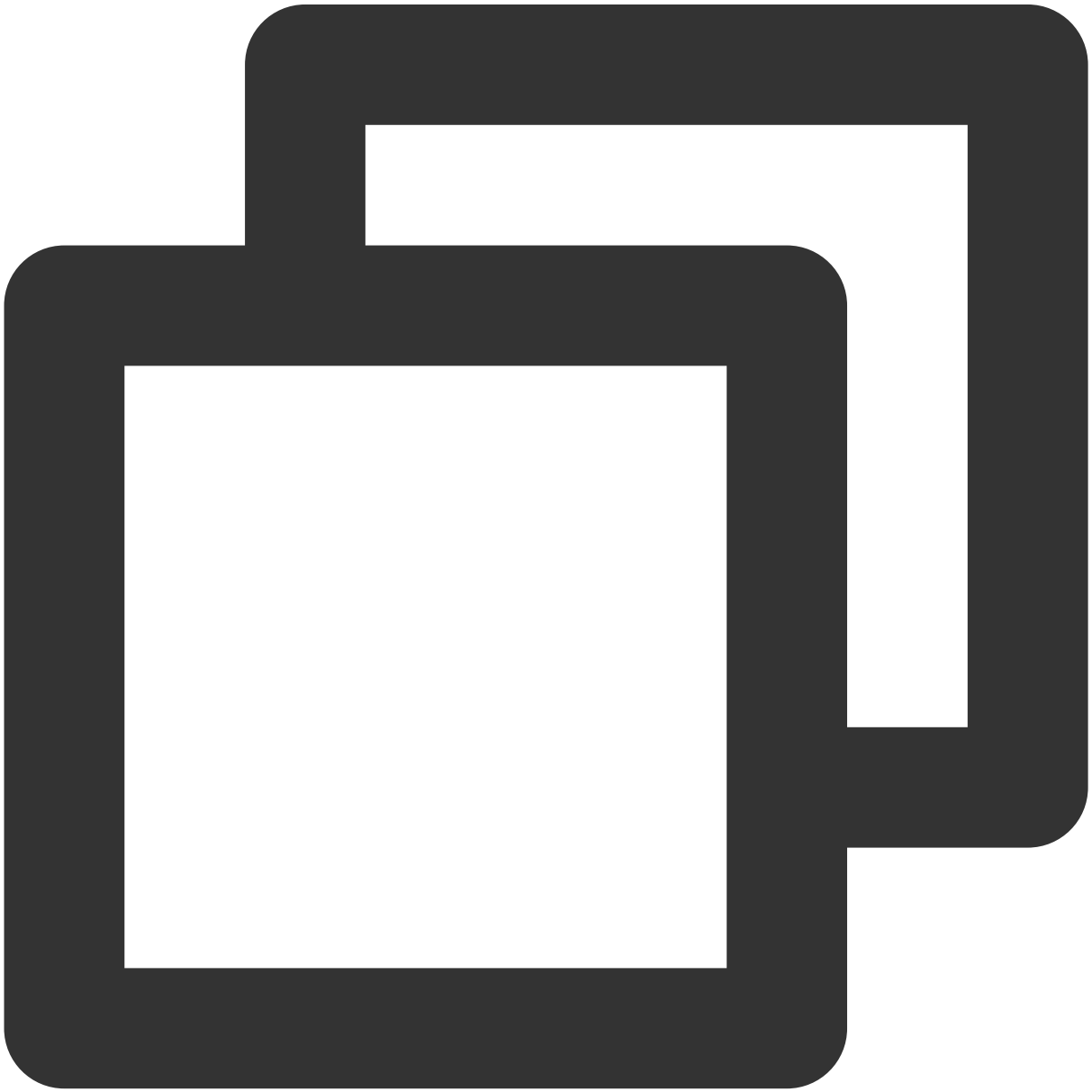
Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: Setting absolute quality

This example sets the **absolute quality** to 60:



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```
http://examples-1251000004.picsh.myqcloud.com/sample.jpeg?imageMogr2/quality/60
```

Output image:



Example 2: Setting relative quality

This example sets the **relative quality** to 60:

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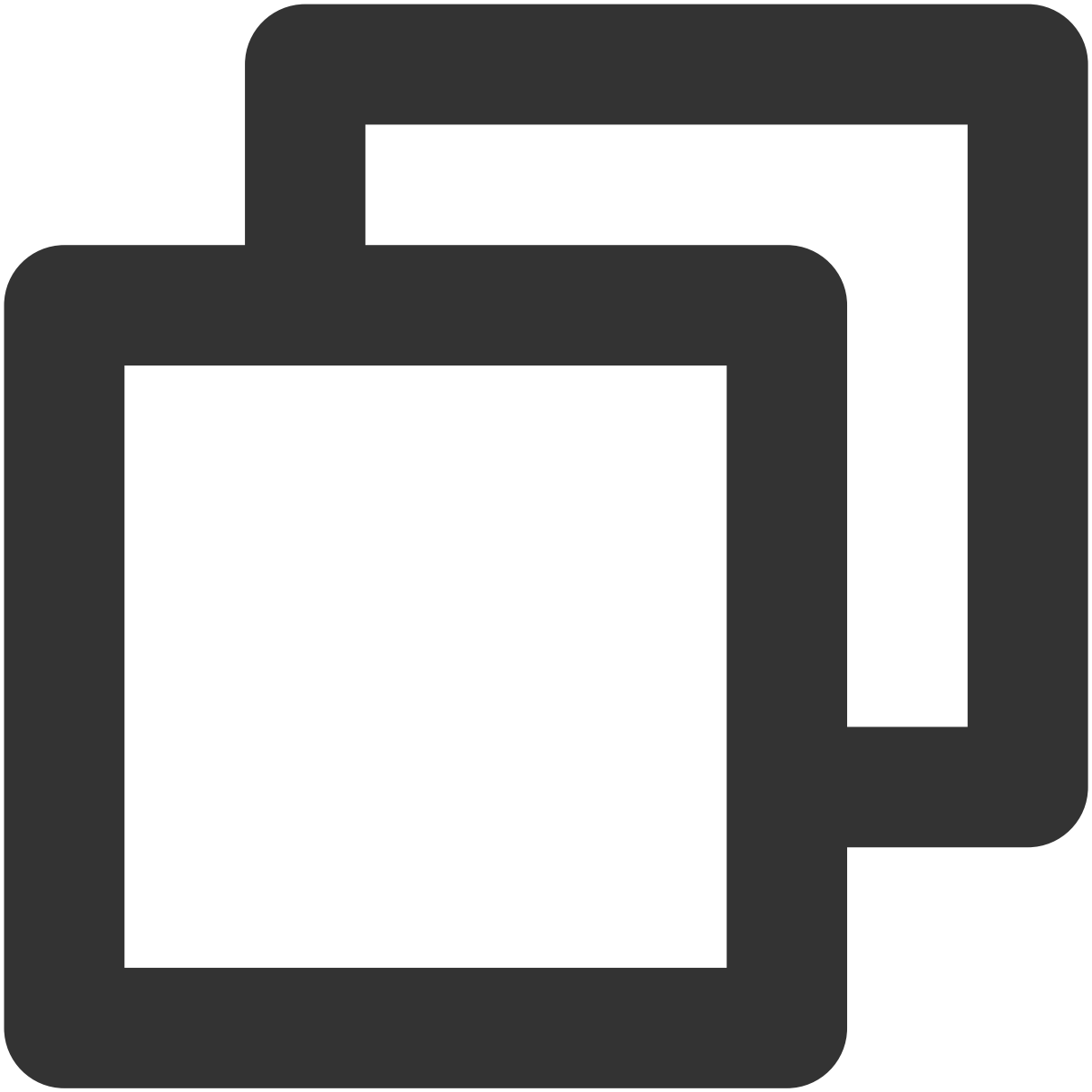

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/rqua
```

Output image:

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Example 3: Setting the relative quality to 60 with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&).

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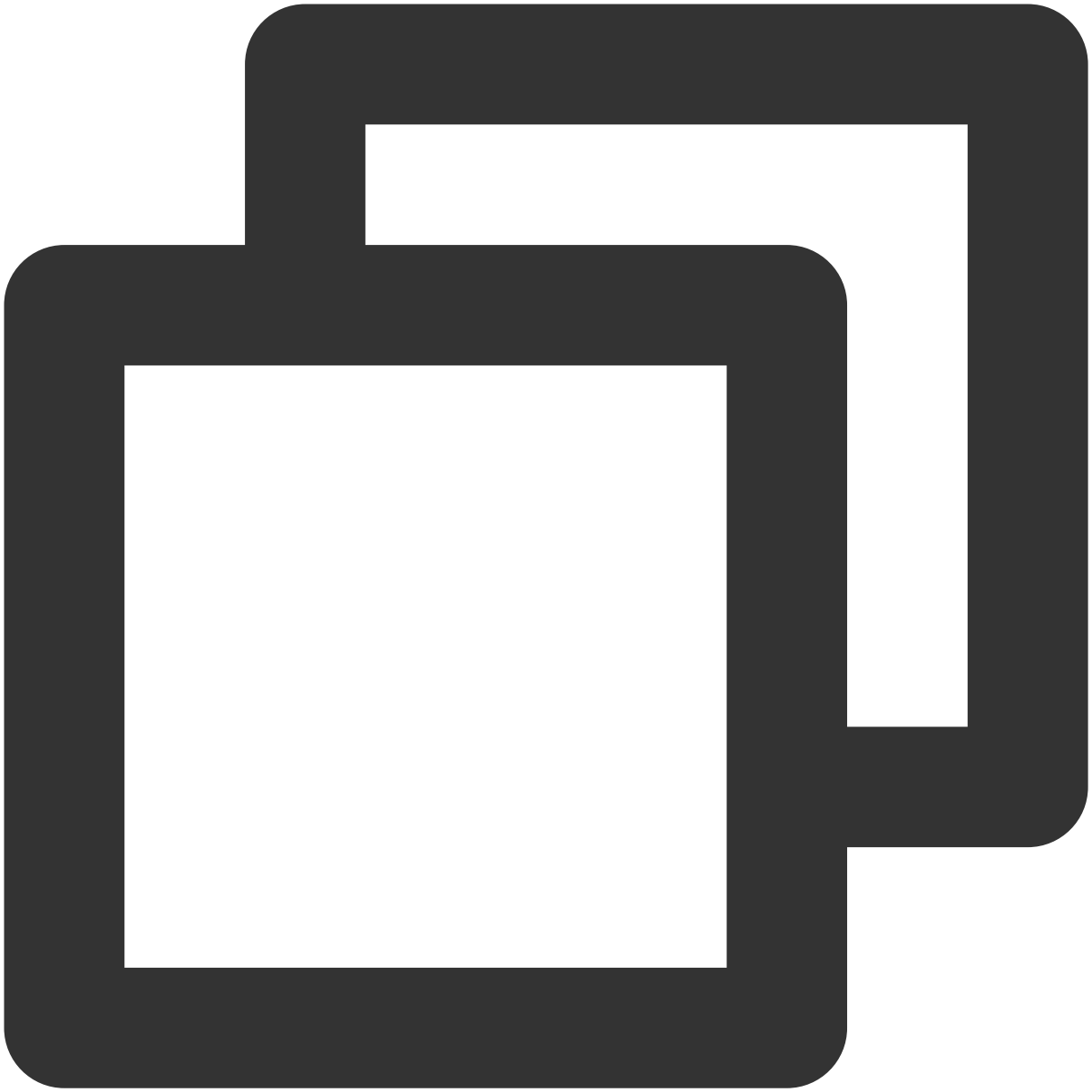

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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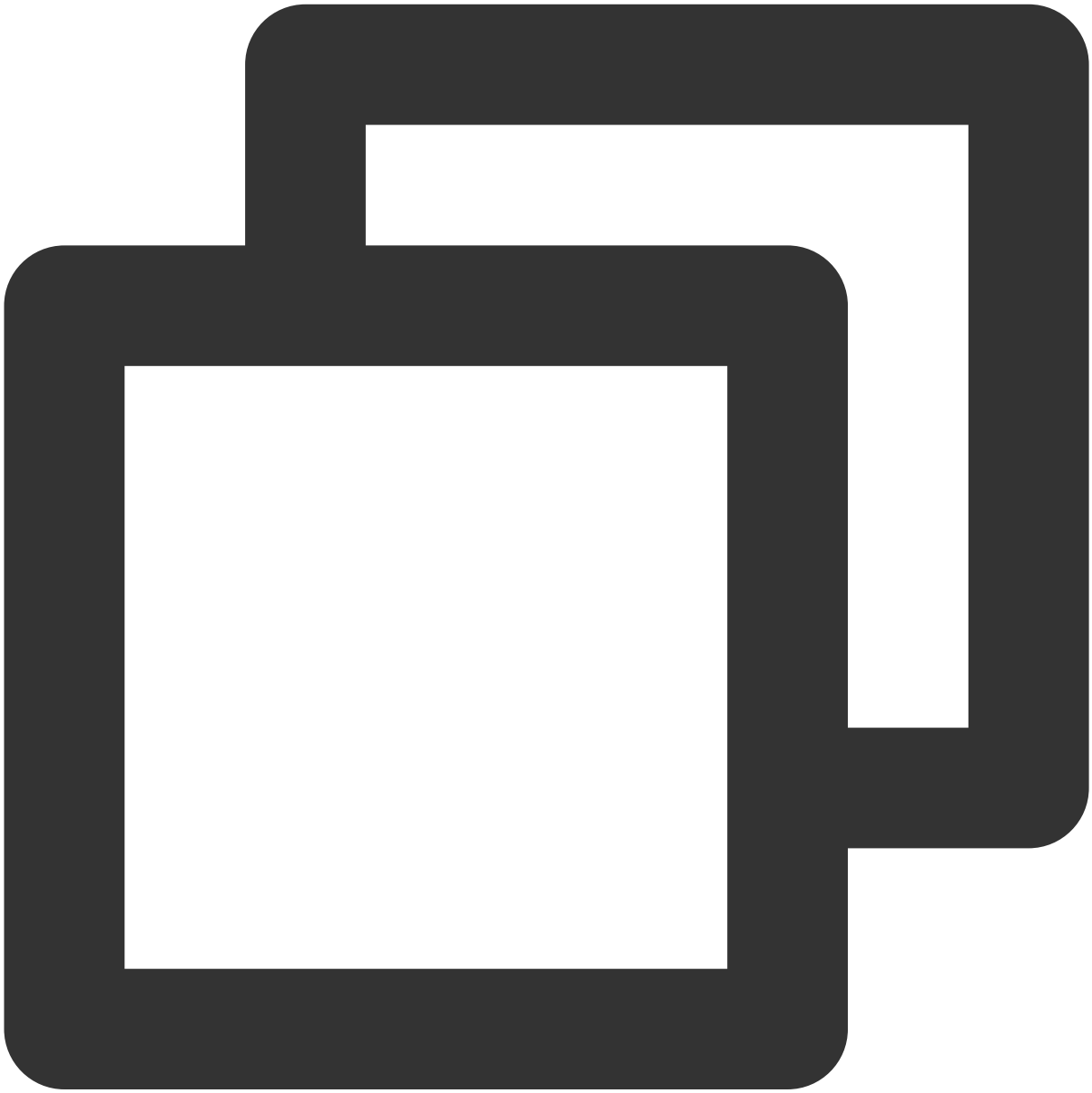
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might not be valid or accessible anymore). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Gaussian Blurring

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2** API provided by CI to blur an image.
An image can be processed:
Upon download
Upon upload
In cloud

Restrictions

Format: Currently, JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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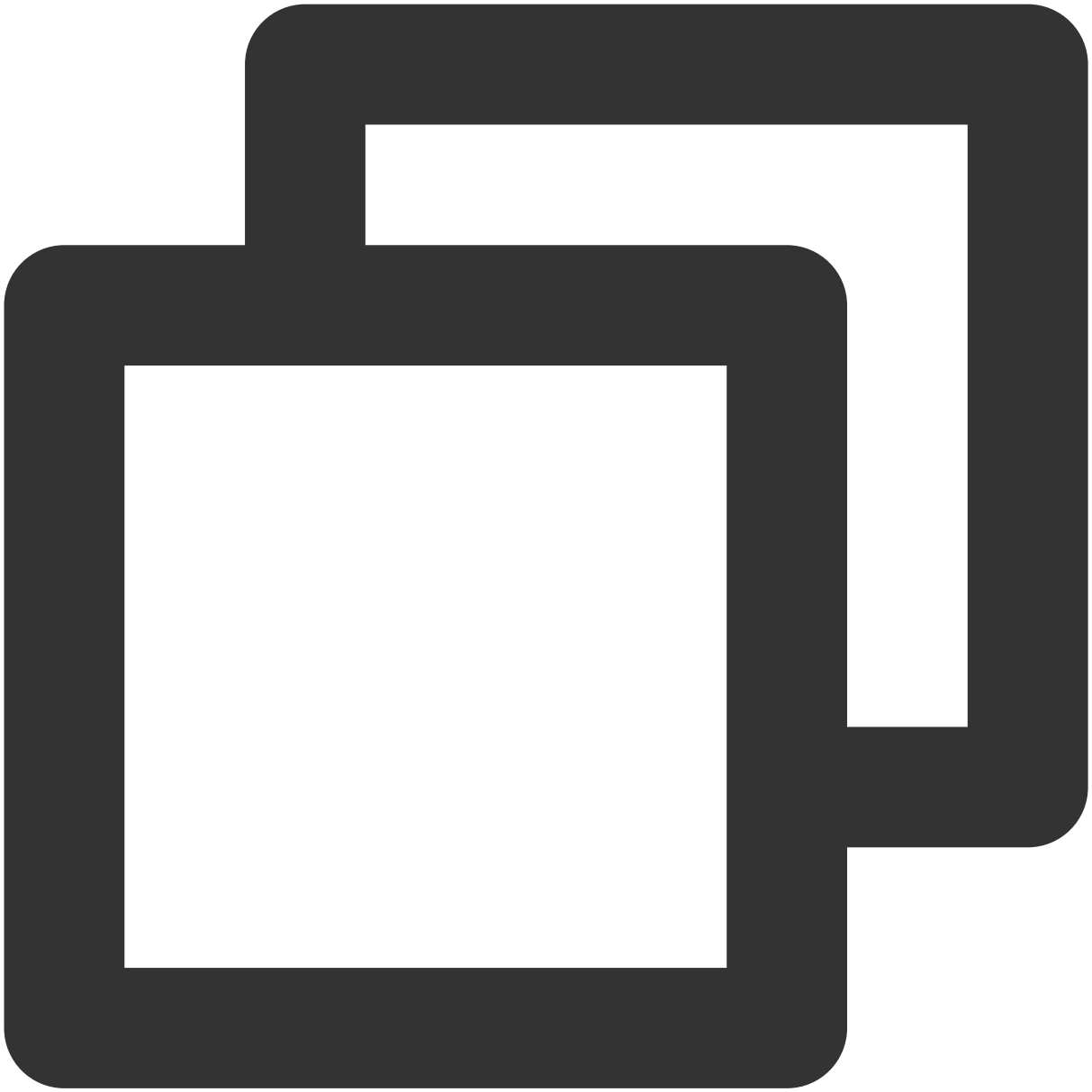

```
download_url?imageMogr2/blur/<radius>x<sigma>
```

2. Processing upon upload

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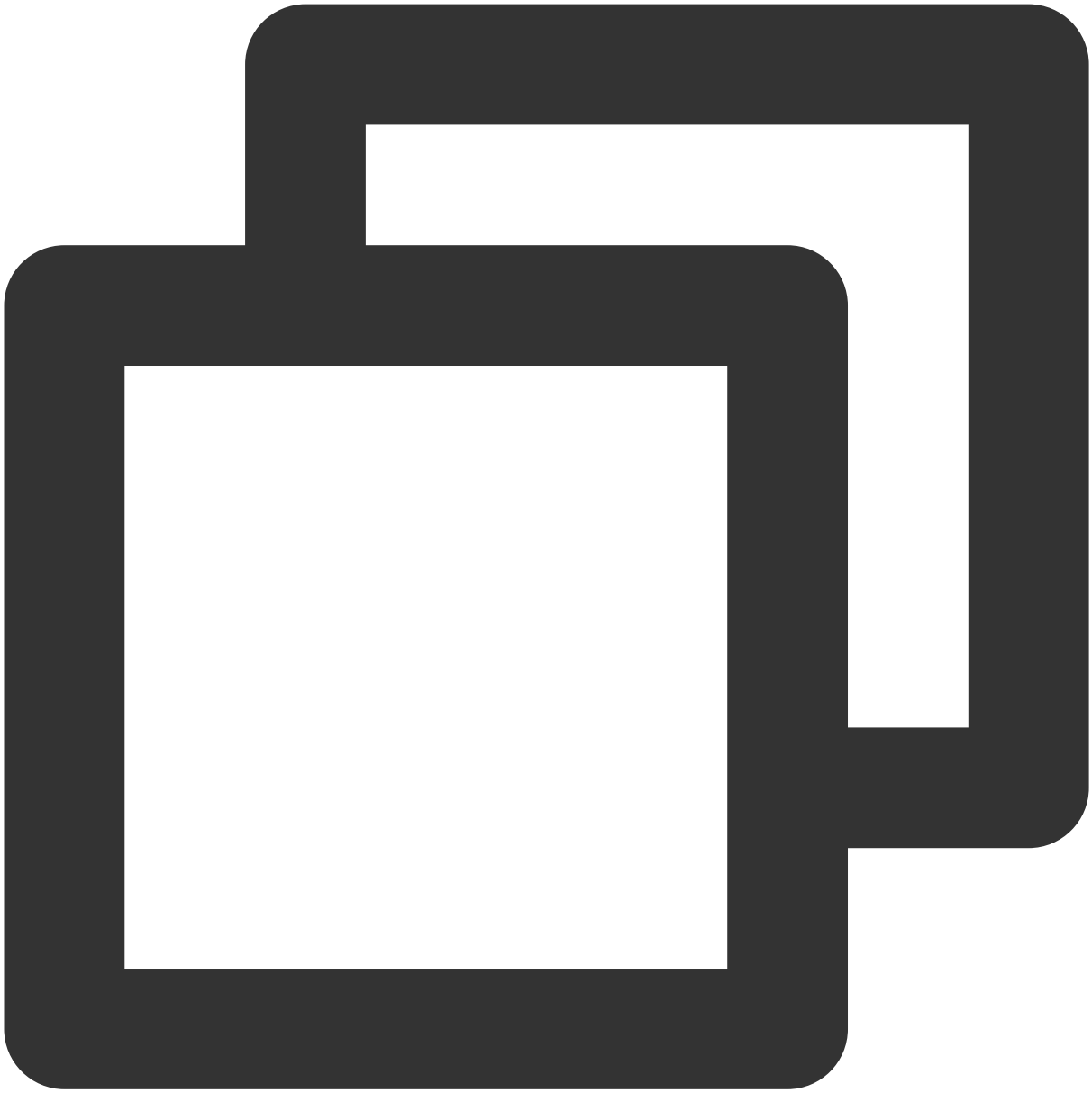

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/blur/<radius>x<sigma>"
  }]
```

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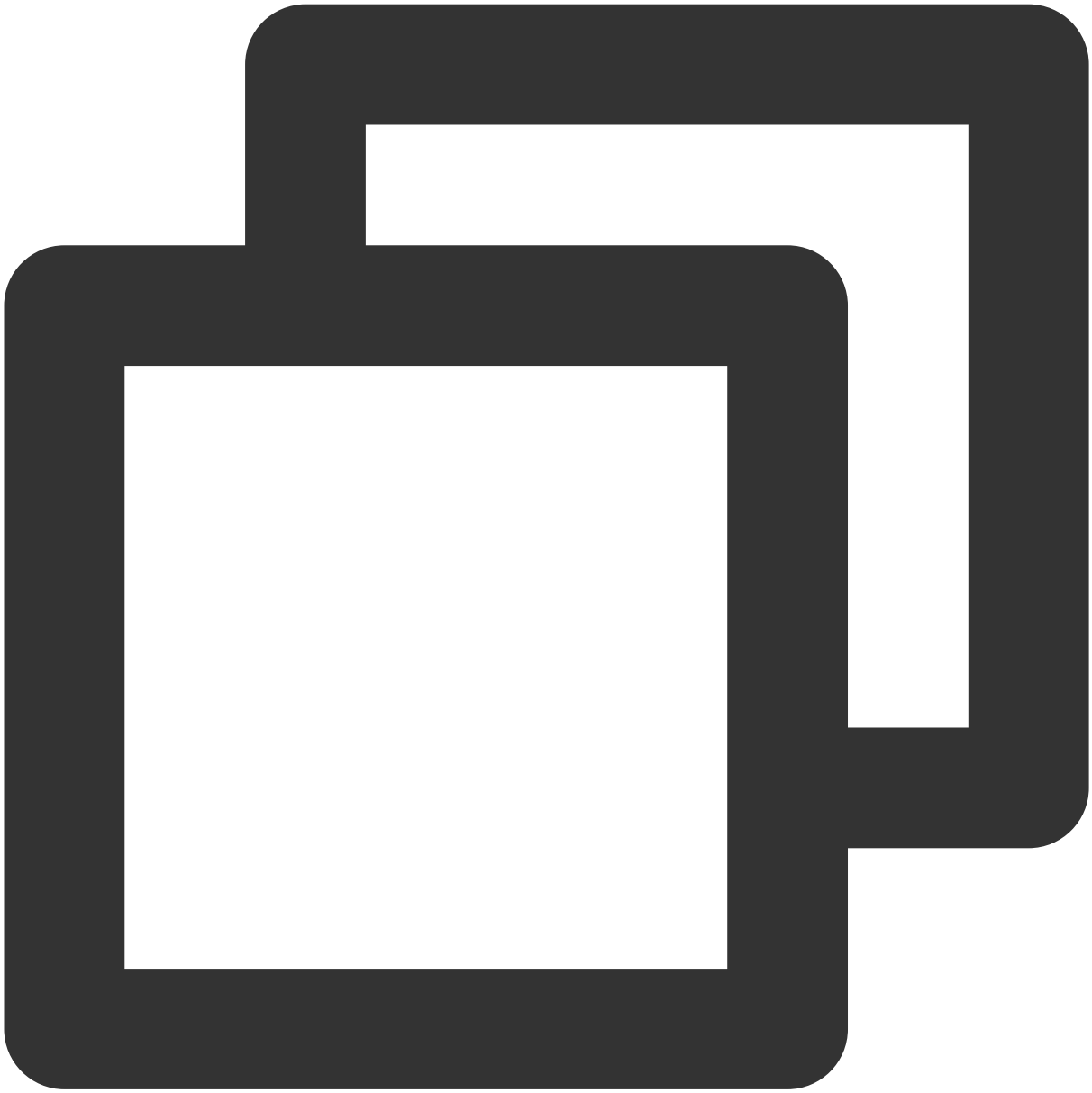
```
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
```

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```
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject",
        "rule": "imageMogr2/blur/<radius>x<sigma>"
    }]
}
```

Note:

Authorization: Auth String (For more information, please see Request Signature.)

Parameters

Operation: blur

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
radius<radius>	Blurring radius. Value range: 1–50.
sigma<sigma>	Standard deviation of normal distribution. The value must be greater than 0.
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: blurring an image with a radius of 8 and the sigma 5

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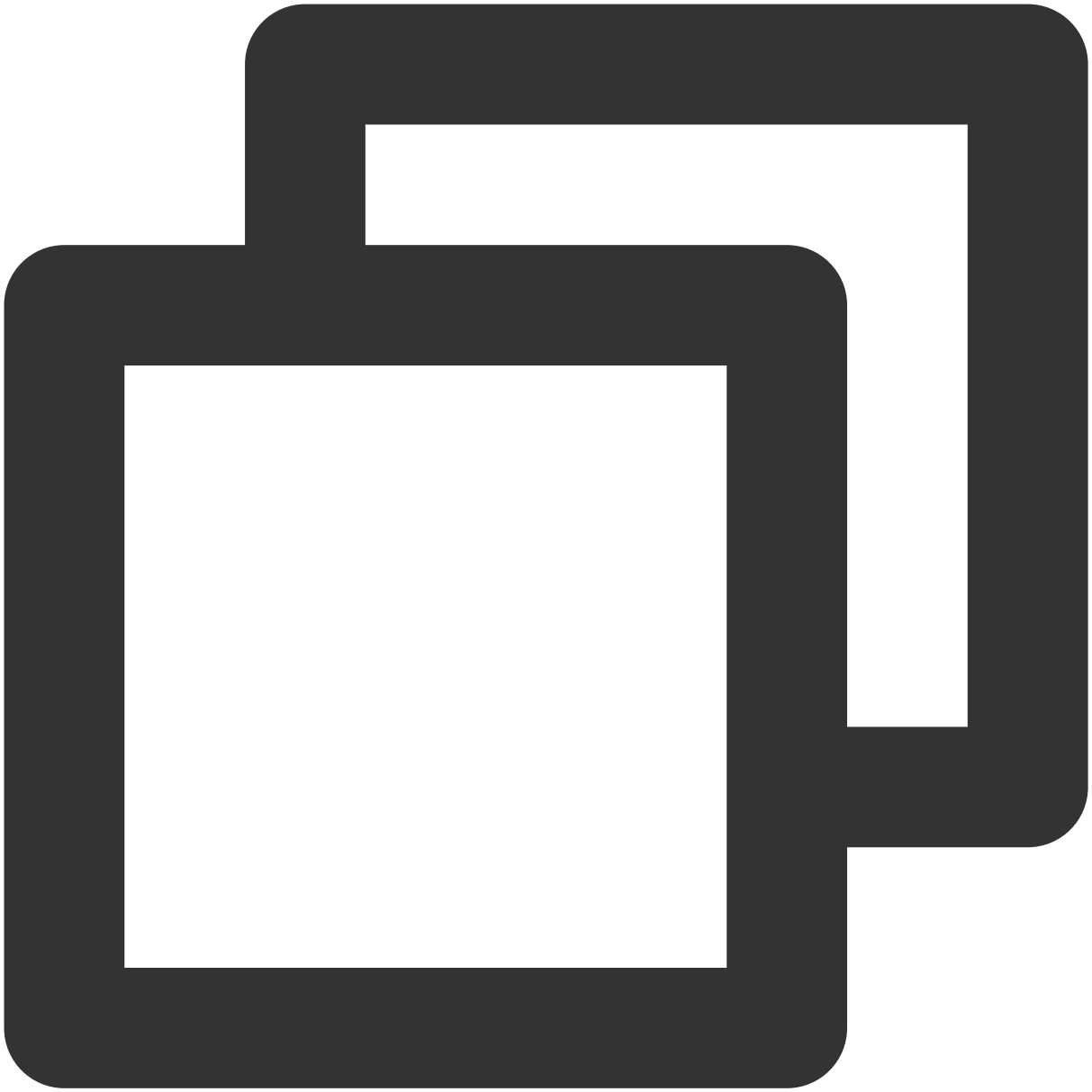

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/blur
```

Output image:

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Example 2: blurring an image with a radius of 8 and the sigma 5 with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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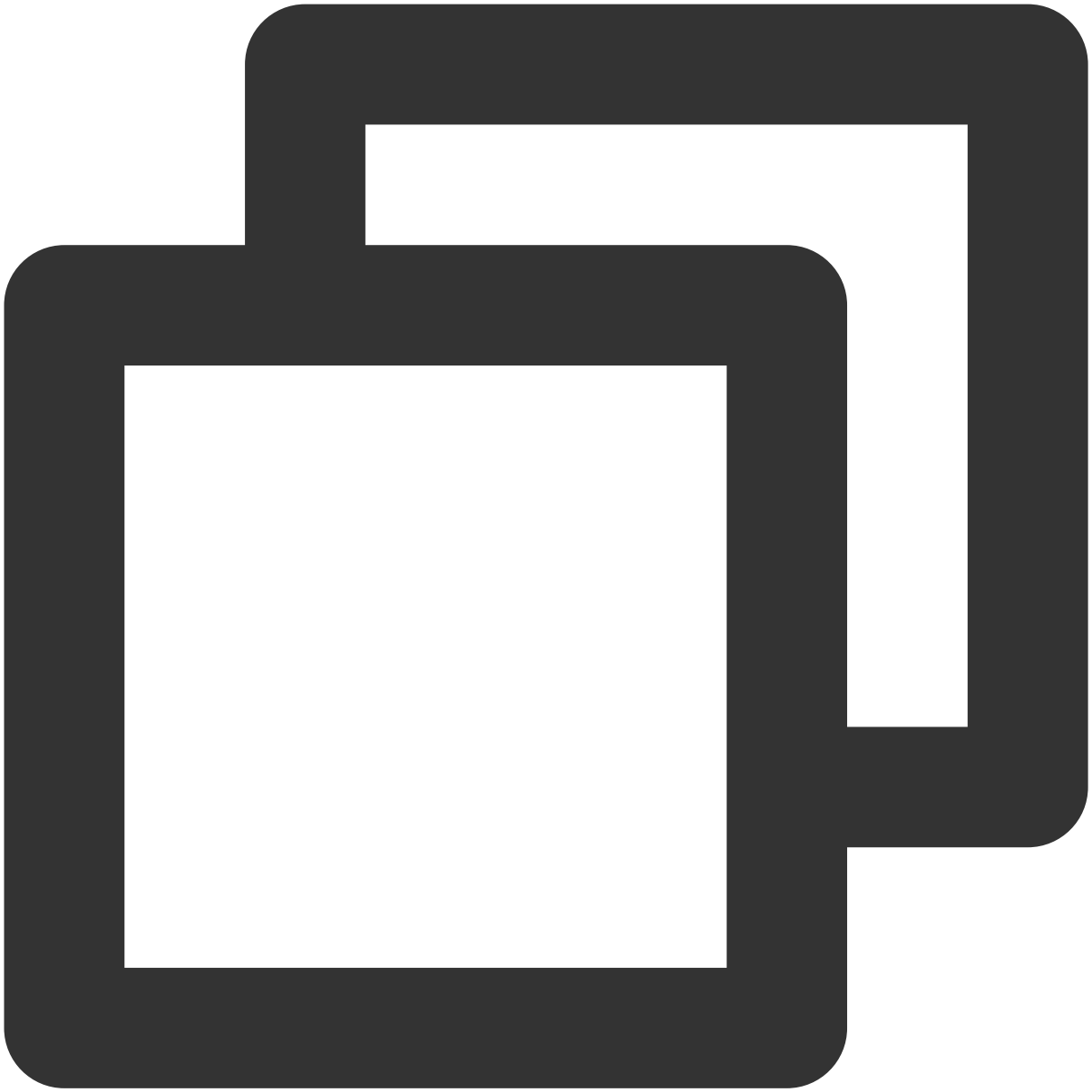

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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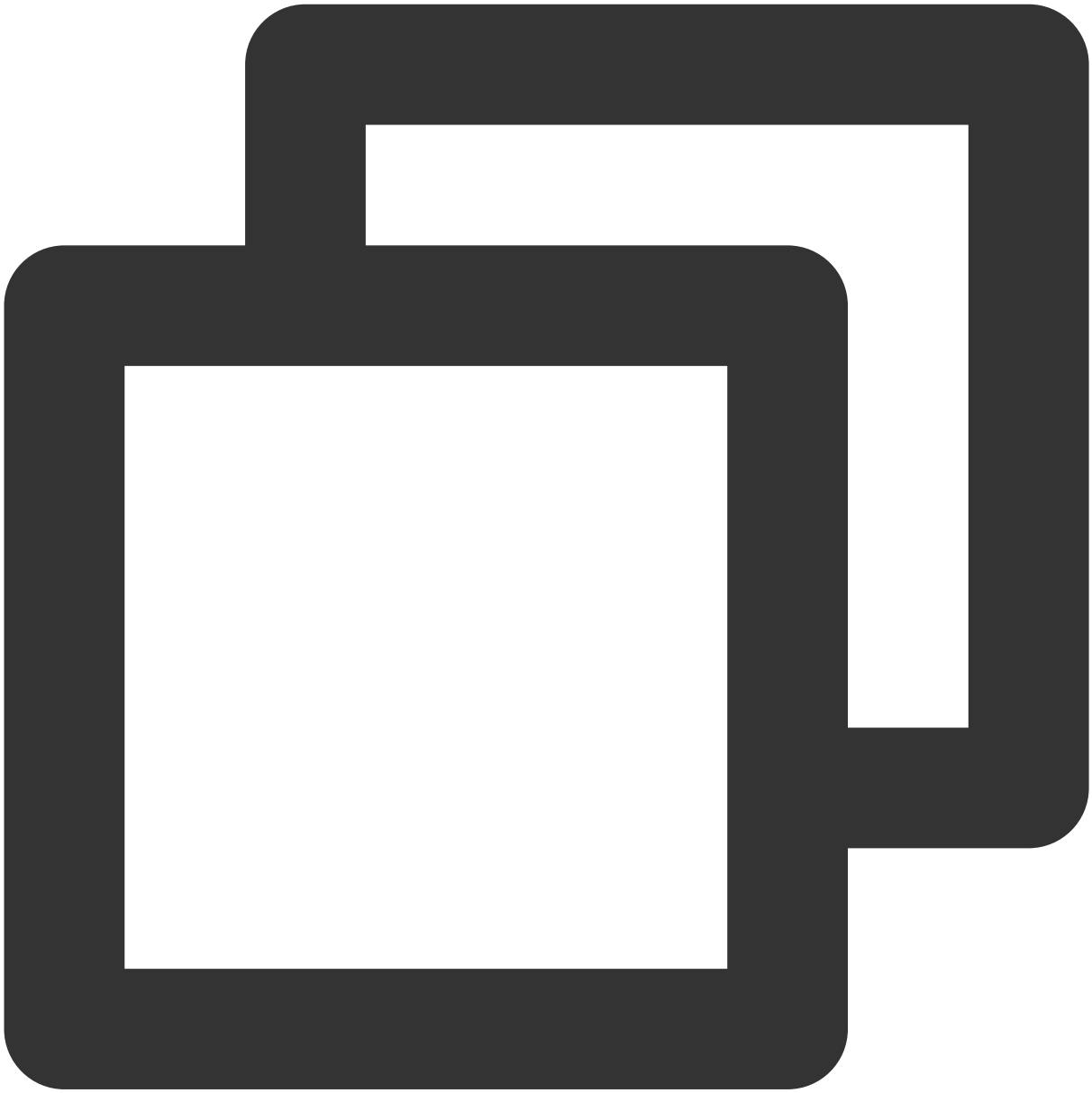
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Adjusting Brightness

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2** API provided by CI to adjust the brightness of an image.
An image can be processed:
Upon download
Upon upload
In cloud

Restrictions

Format: Currently, JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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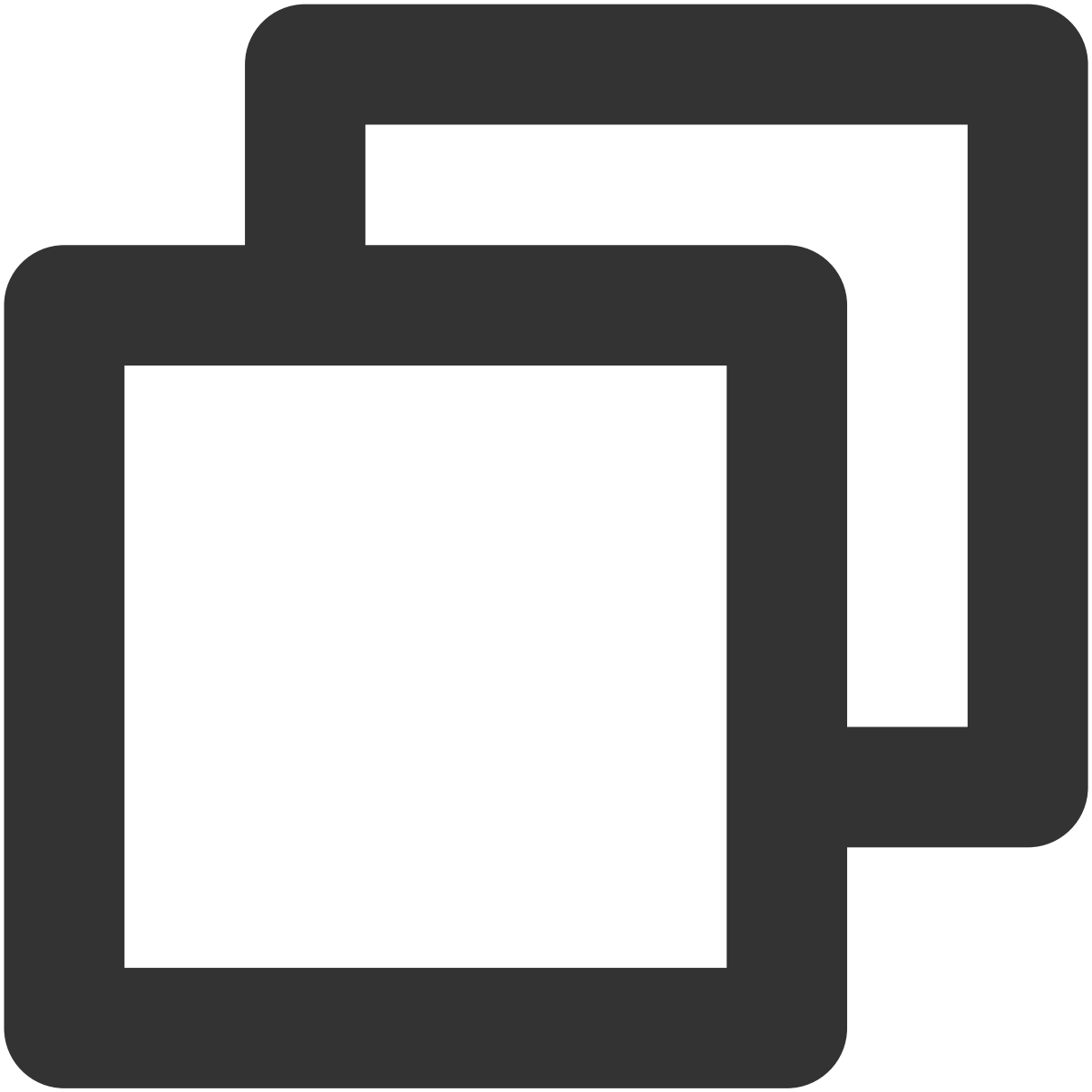

```
download_url?imageMogr2/bright/<value>
```

2. Processing upon upload

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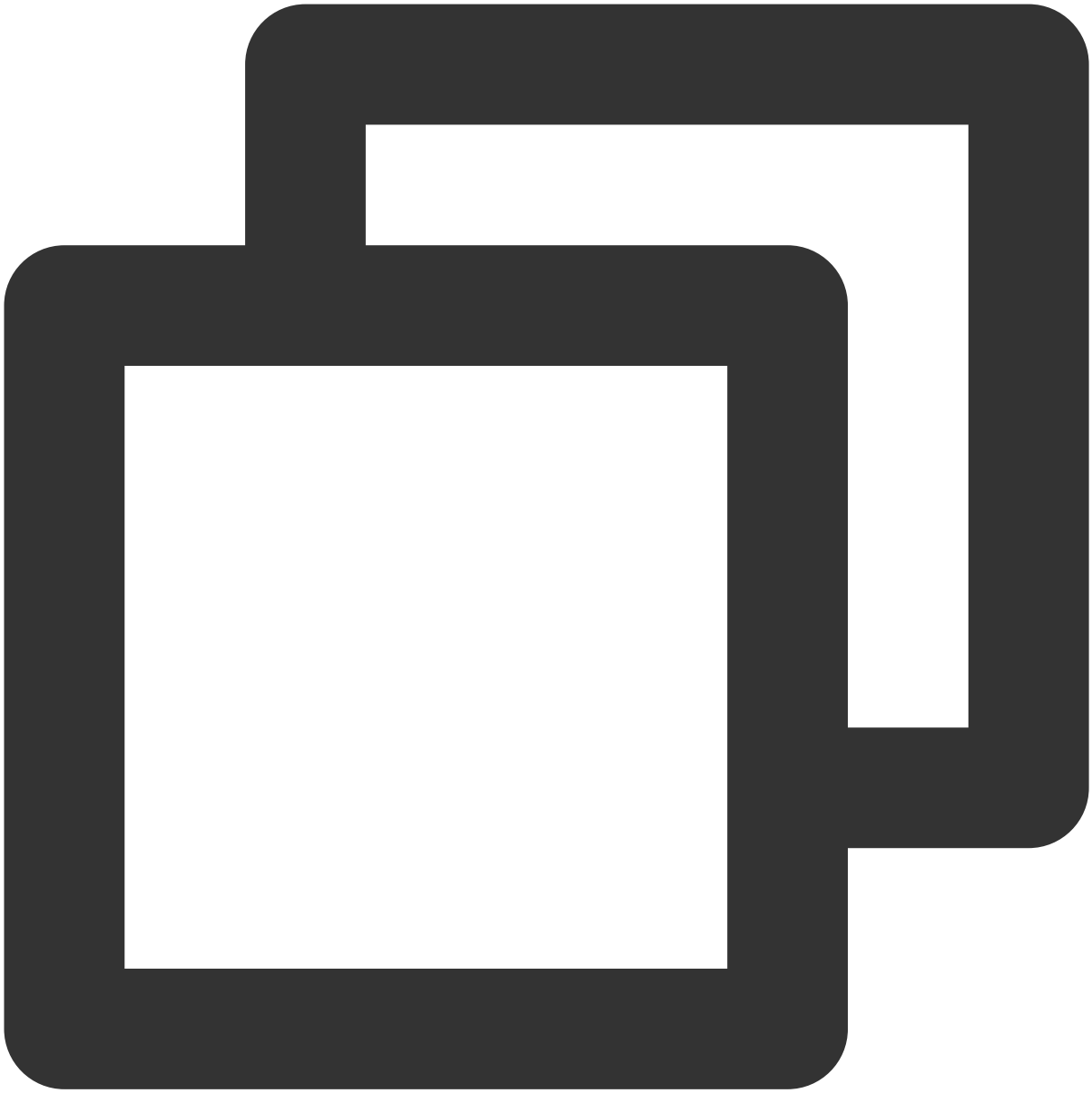

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/bright/<value>"
  }]
```

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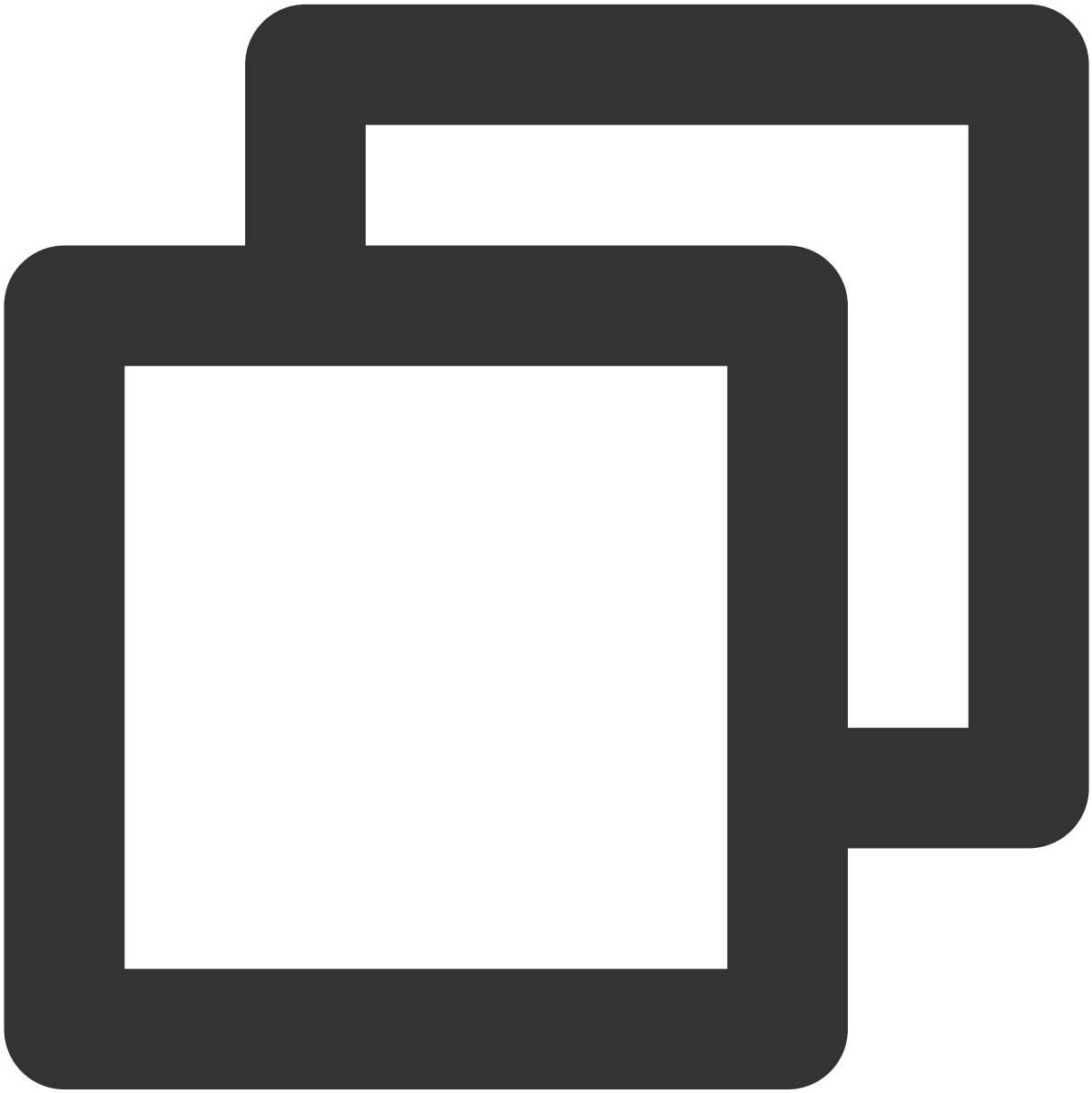
```
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
```

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```
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject",
        "rule": "imageMogr2/bright/<value>"
    }]
}
```

Note:

Authorization: Auth String (For more information, please see Request Signature.)

Parameters

Operation: bright

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
bright/<value>	Adjusts the brightness of an image. The value must be an integer in the range of [–100, 100]. `value` < 0: reduces the brightness. `value` = 0: does not adjust the brightness. `value` > 0: increases the brightness.
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: adjusting brightness

This example increases the brightness of an image by 70:

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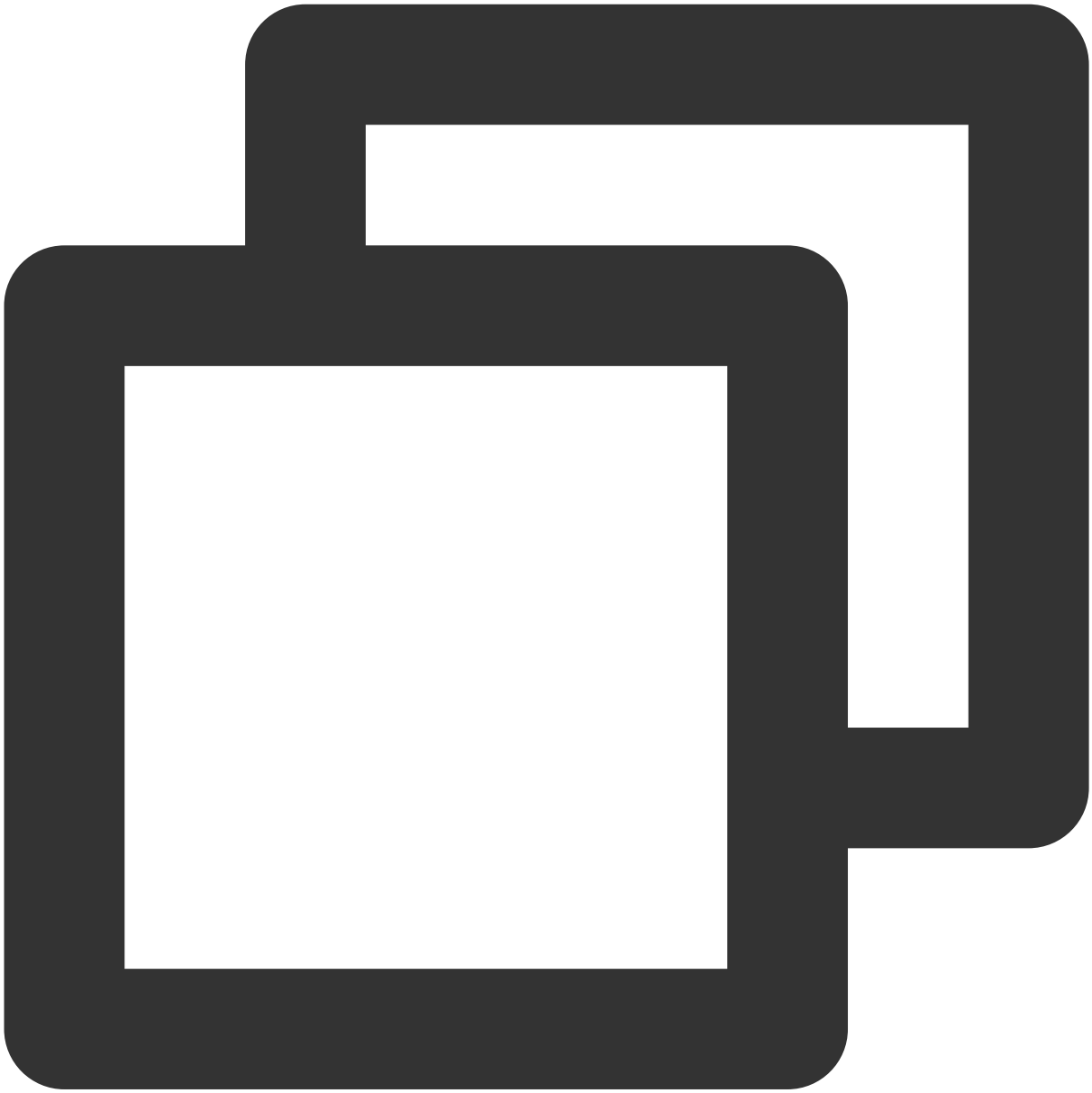

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/brig
```

Output image:

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Example 2: adjusting brightness with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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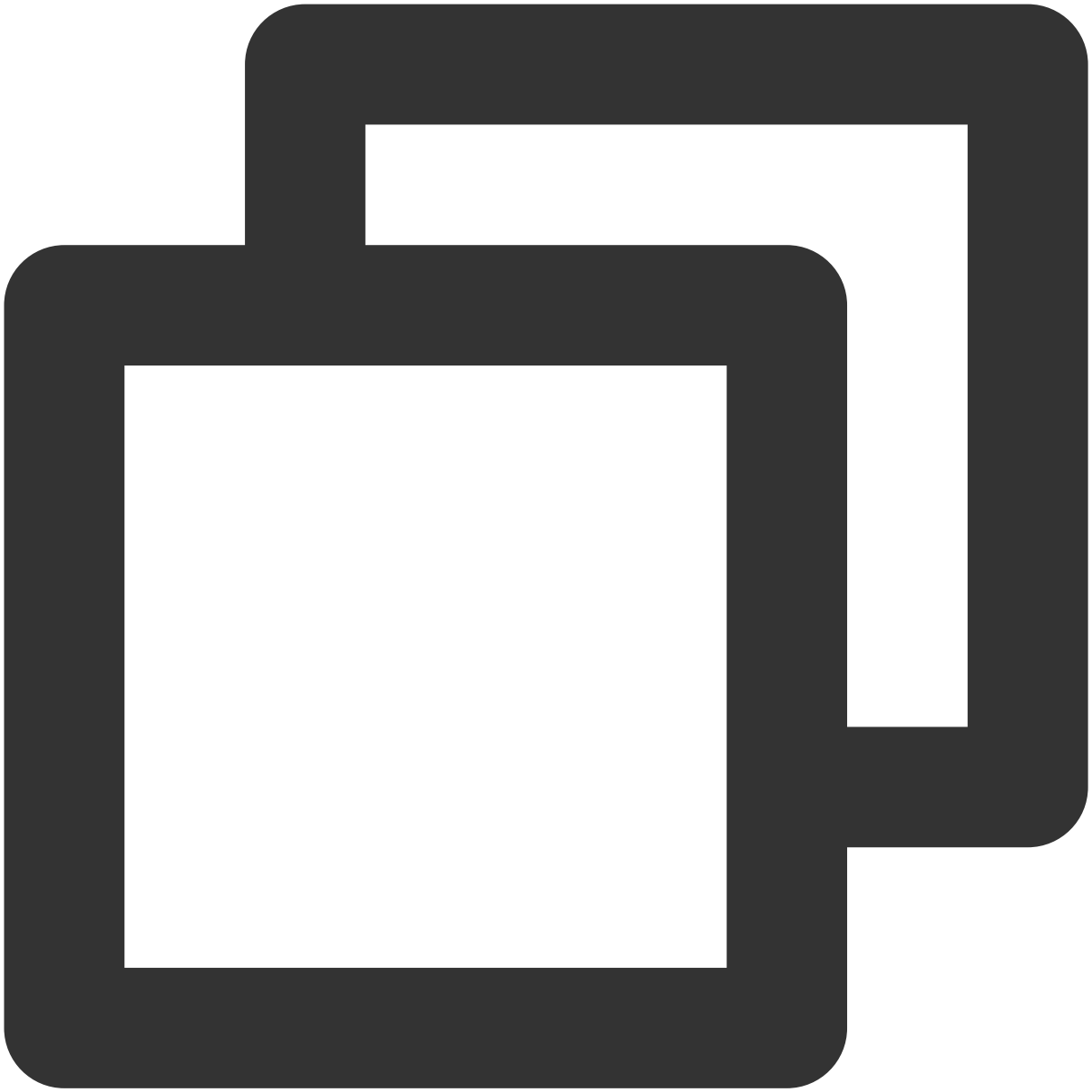

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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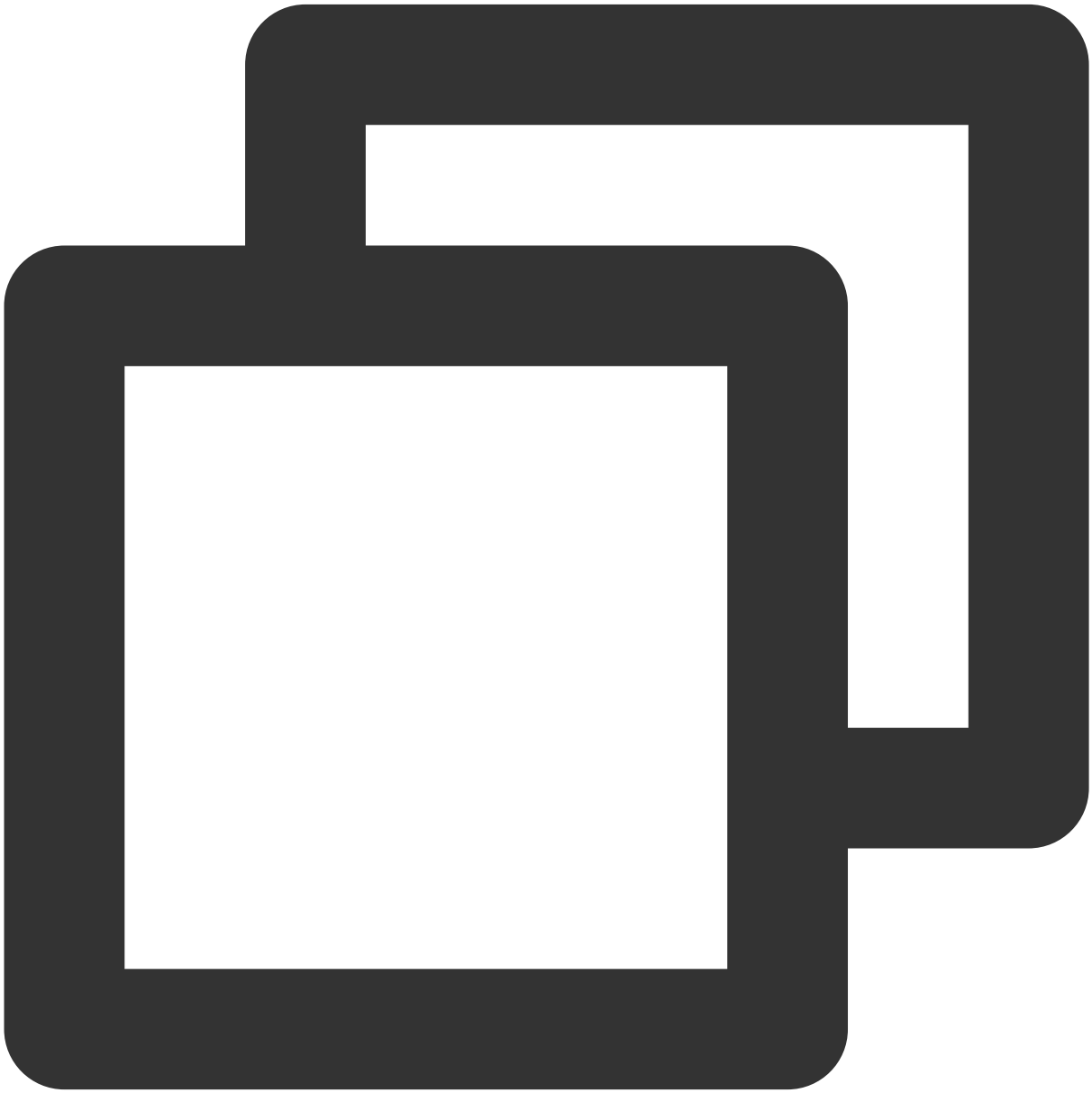
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Adjusting Contrast

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2** API provided by CI to adjust an image's contrast, which is the difference in luminance between the brightest and darkest points in an image (i.e., the contrast in grayscale).
An image can be processed:
Upon download
Upon upload
In cloud

Restrictions

Format: Currently, JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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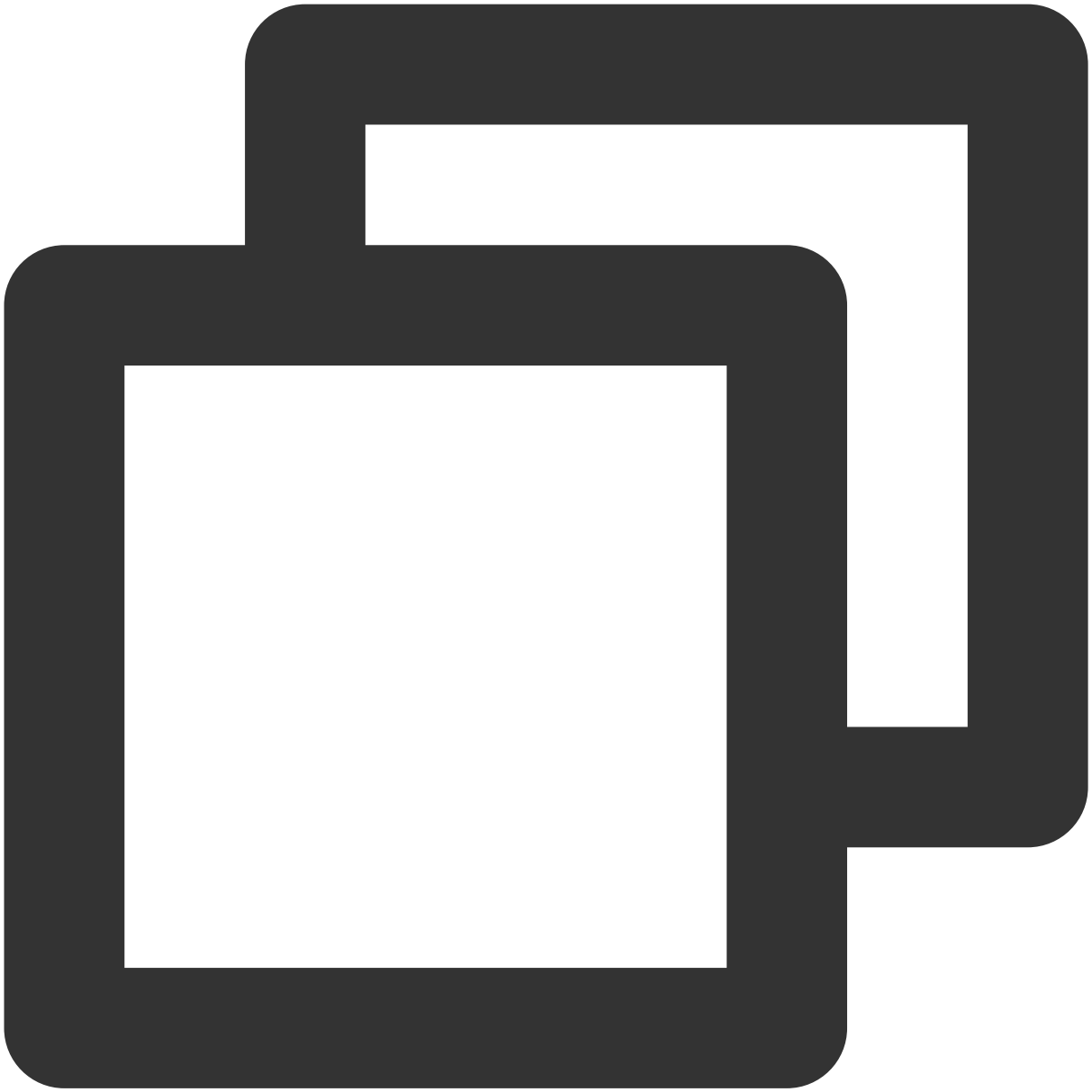

```
download_url?imageMogr2/contrast/<value>
```

2. Processing upon upload

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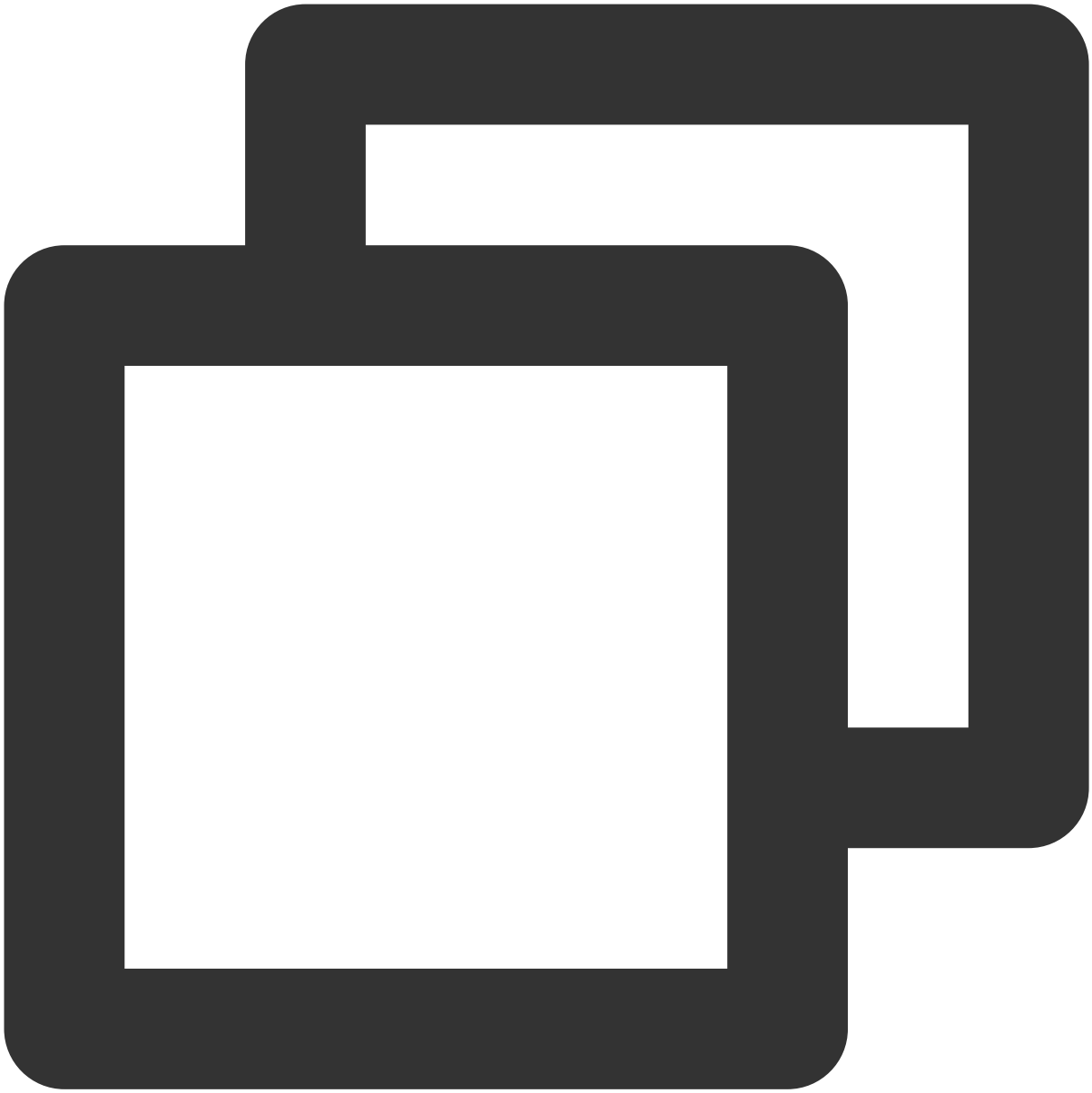

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/contrast/<value>"
  }]
```

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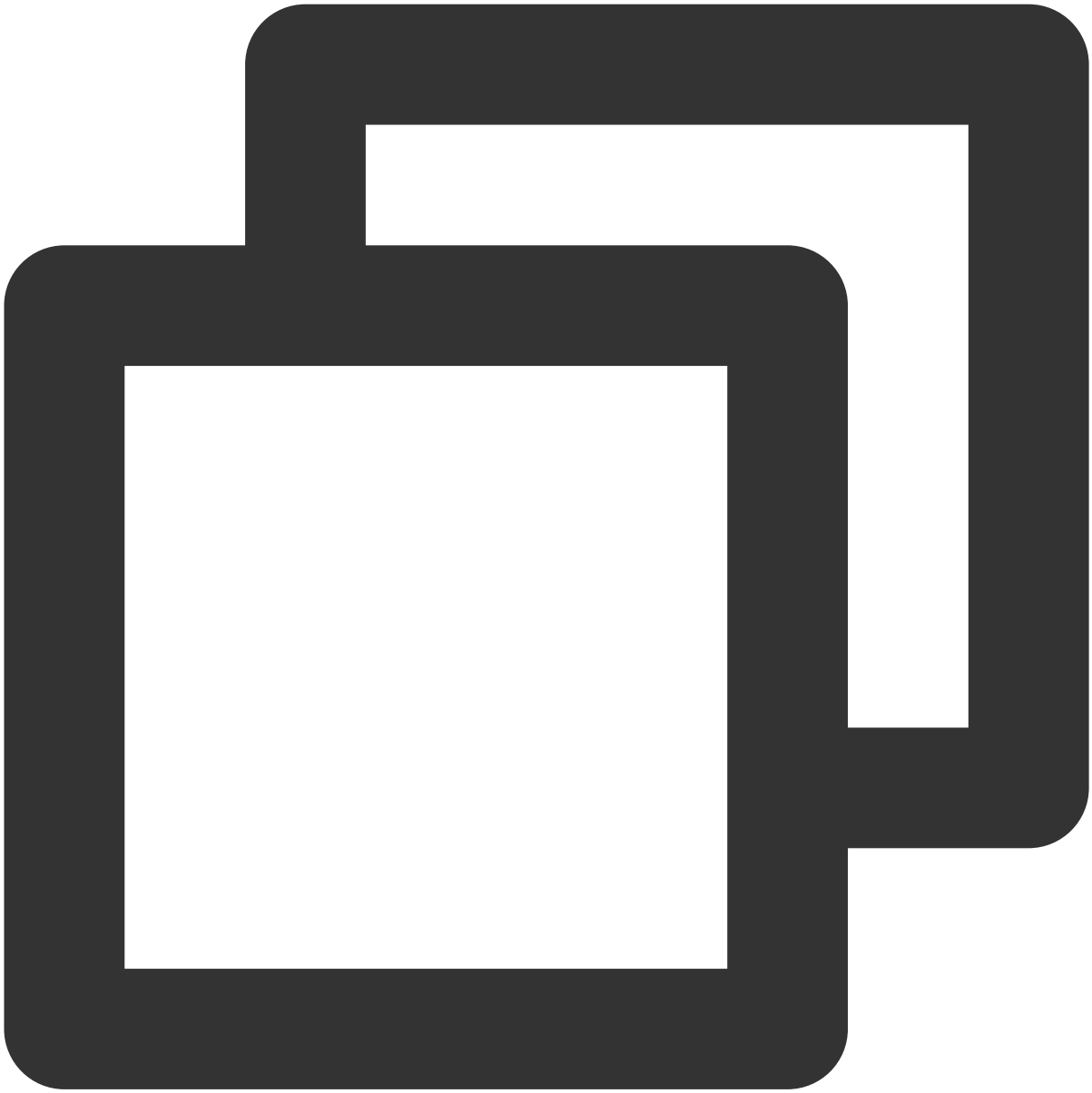
```
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
```

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```
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject",
        "rule": "imageMogr2/contrast/<value>"
    }]
}
```

Note:

Authorization: Auth String (For more information, please see Request Signature.)

Parameters

Operation: contrast

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/contrast/<value>	Adjusts the contrast of an image. The value must be an integer in the range of [–100, 100]. `value` < 0: reduces the contrast. `value` = 0: does not adjust the contrast. `value` > 0: increases the contrast.
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Example 1: adjusting contrast

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

This example reduces the contrast of an image by 50:

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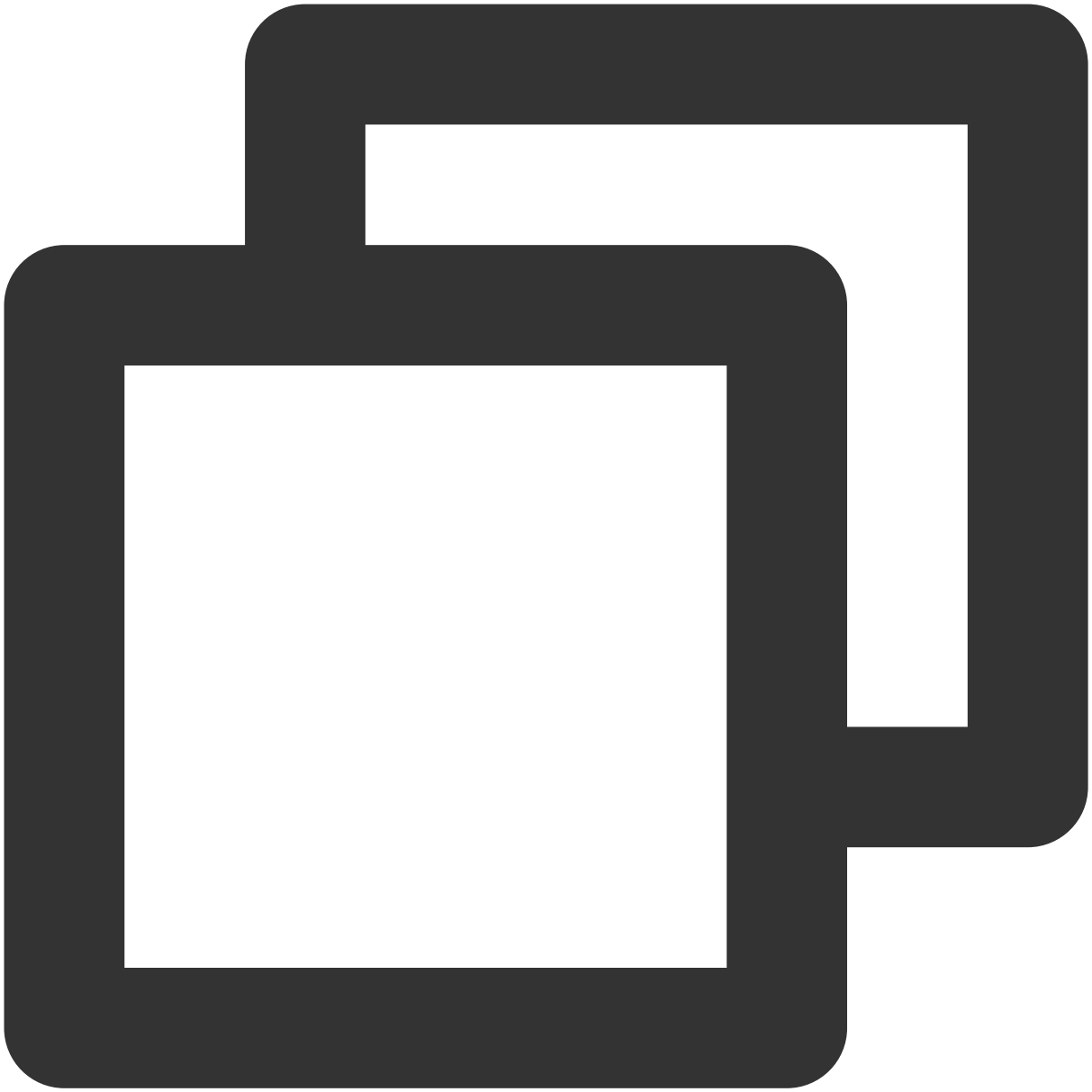

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/cont
```

Output image:

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Example 2: adjusting contrast with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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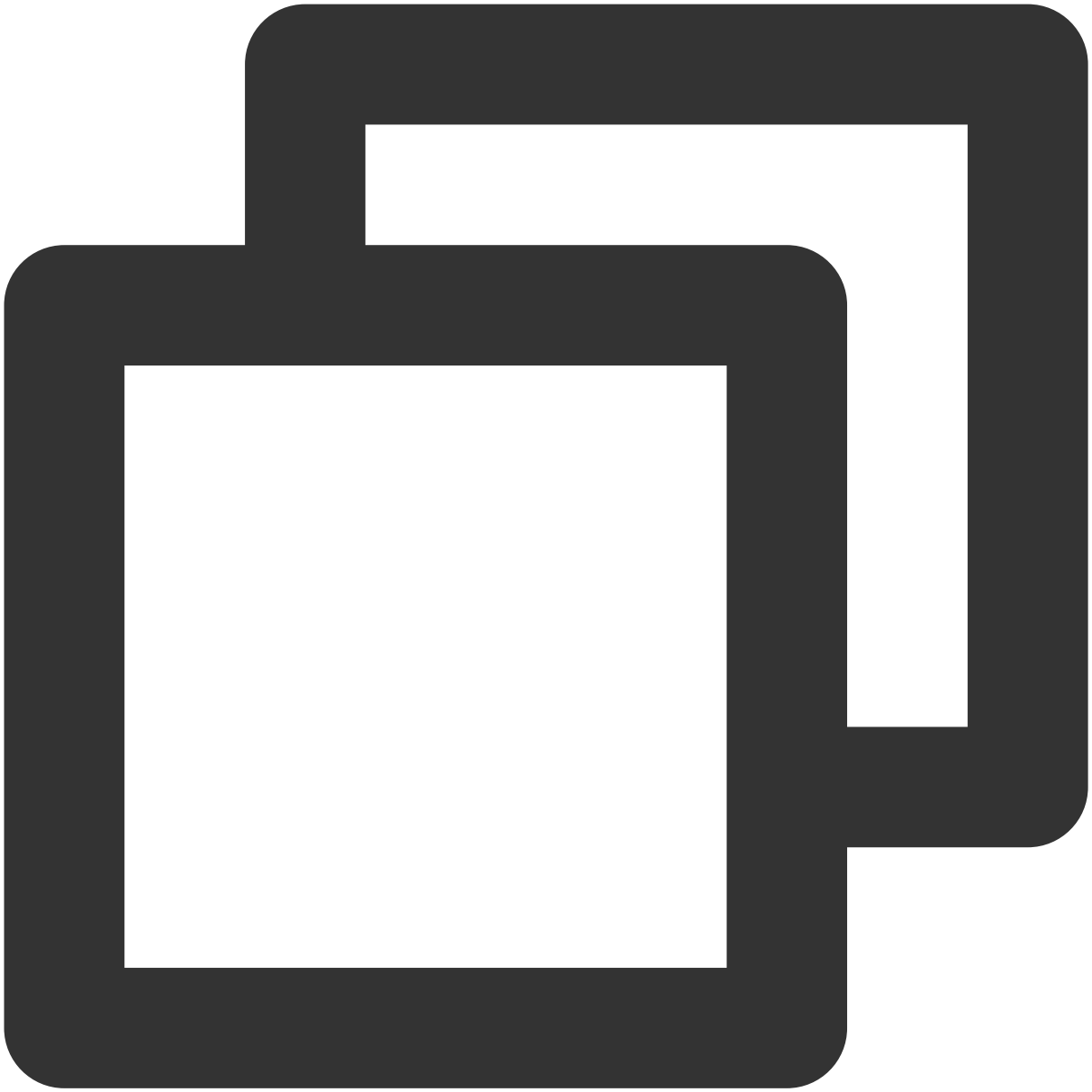

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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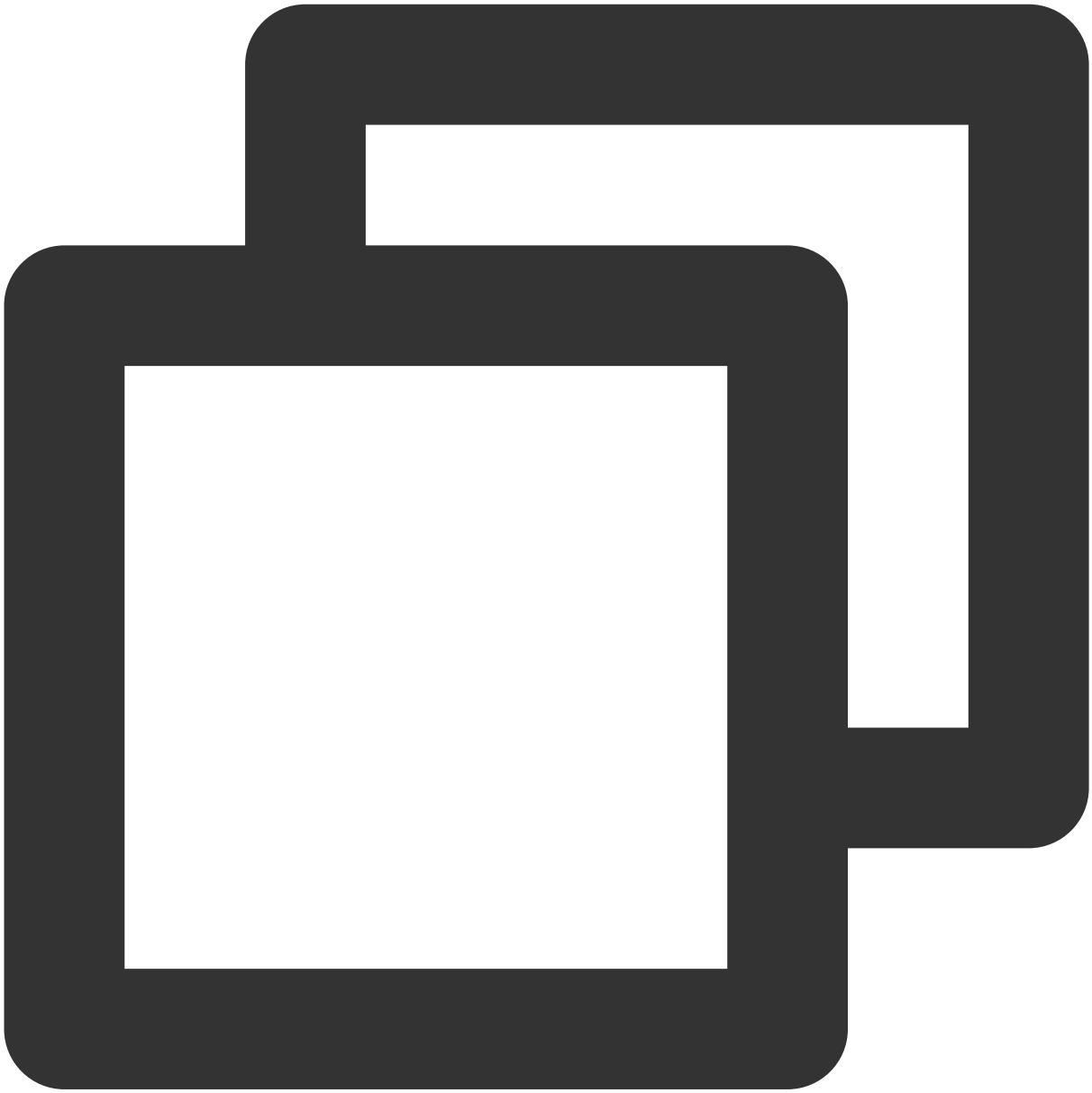
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Sharpening

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2** API provided by CI to sharpen an image.
An image can be processed:
Upon download
Upon upload
In cloud
Note:
Image processing is charged by CI. For detailed pricing, please see the image processing prices of CI.

Restrictions

Format: Currently, JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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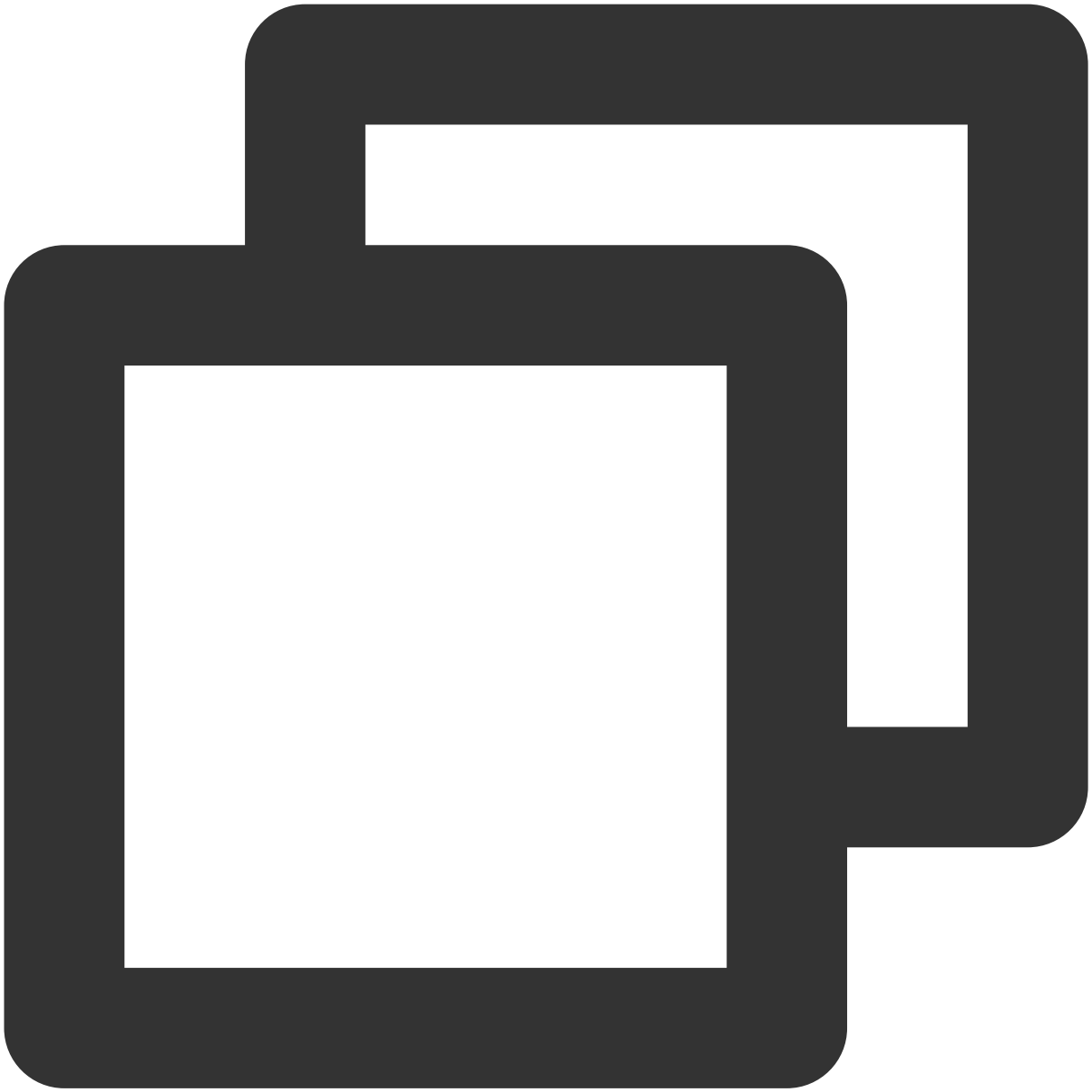

```
download_url?imageMogr2/sharpen/<value>
```

2. Processing upon upload

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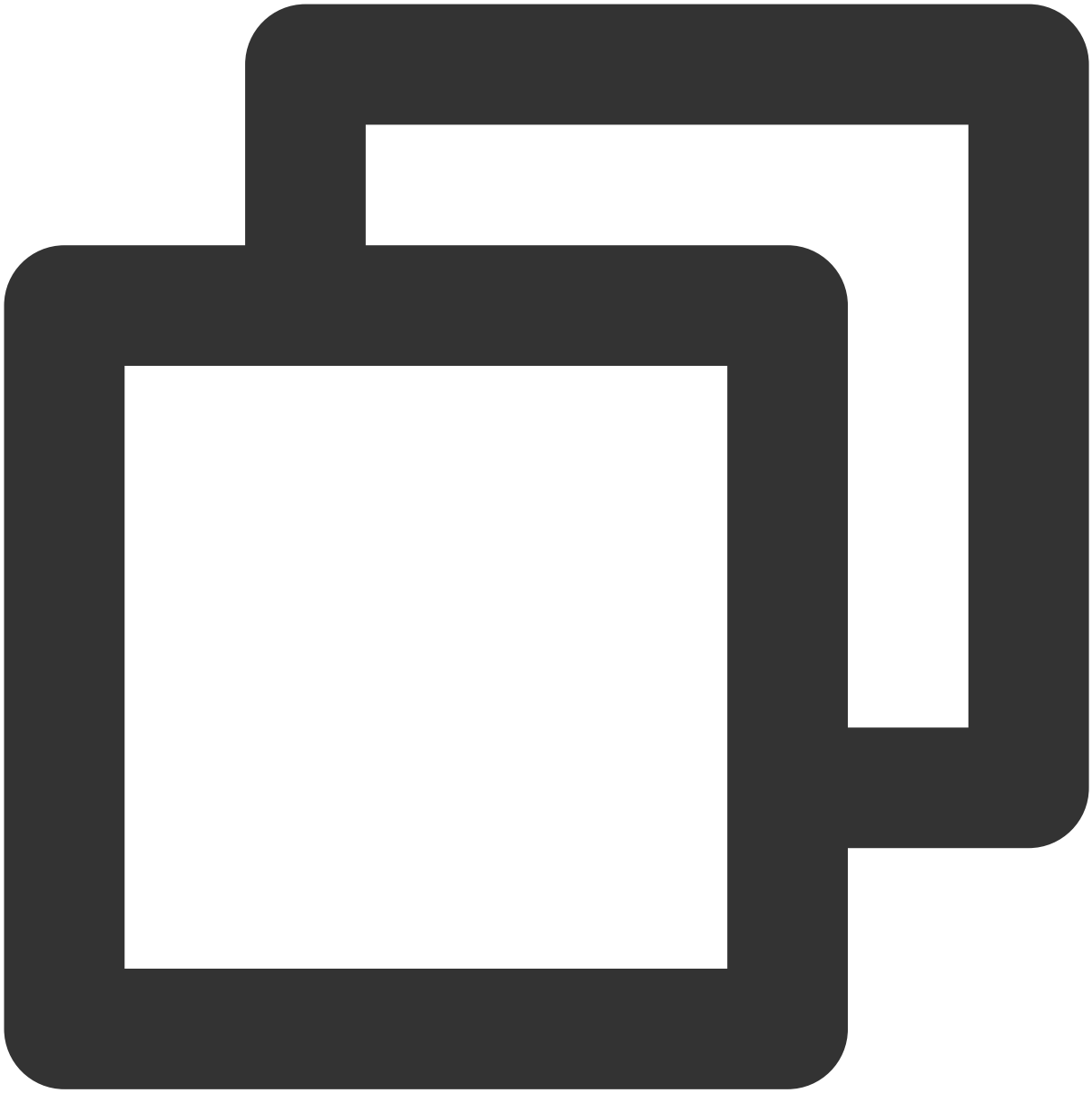

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/sharpen/<value>"
  }]
```

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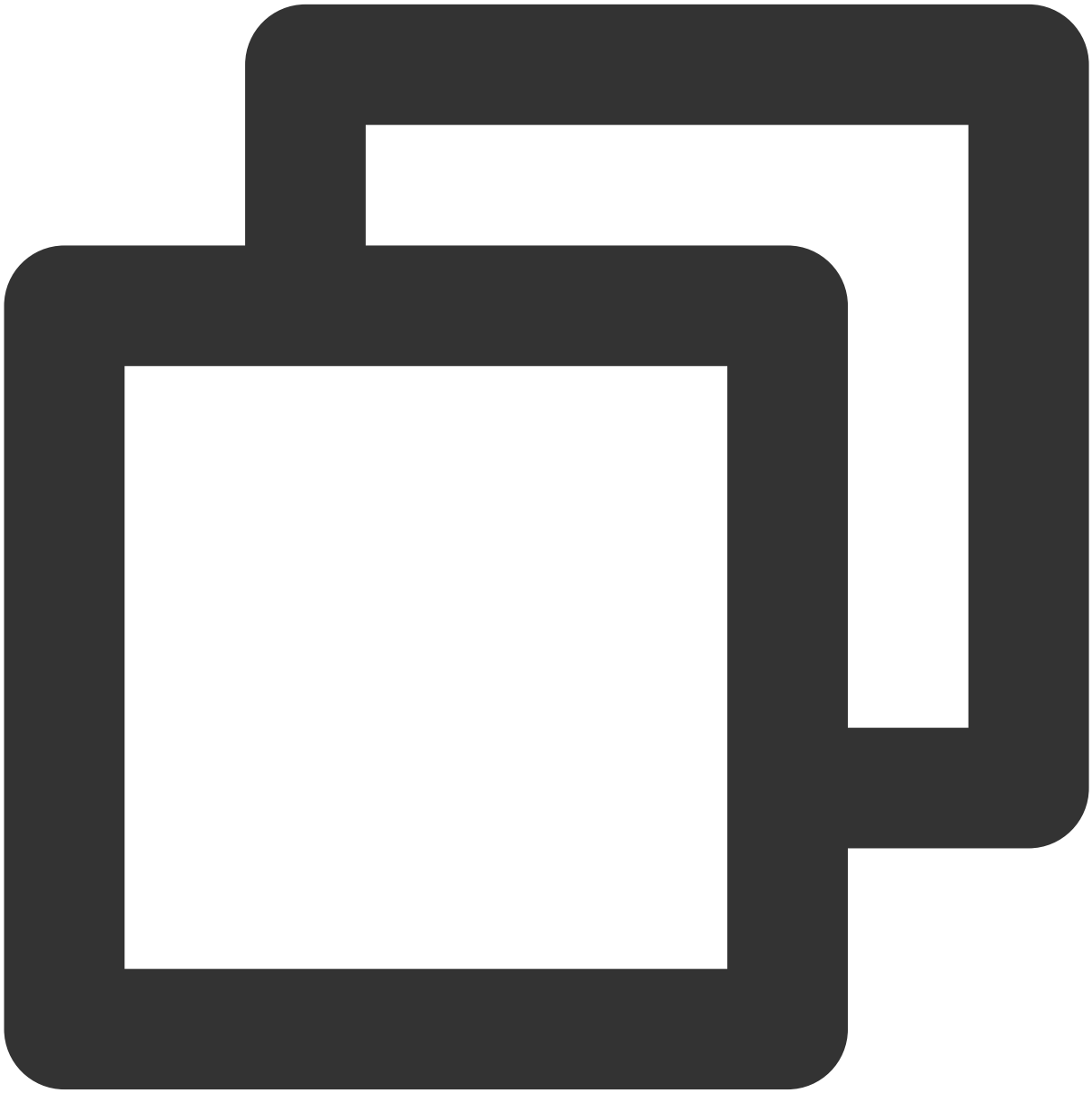
```
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
```

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```
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject",
        "rule": "imageMogr2/sharpen/<value>"
    }]
}
```

Note:

Authorization: Auth String (For more information, please see Request Signature.)

Parameters

Operation: sharpen

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/sharpen/<value>	Sharpens an image, where `value` controls the strength of the sharpening effect. The greater the value, the more obvious the sharpening. Value range: an integer in the range of 10 to 300 (70 is recommended)
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: sharpening

This example sharpens an image with the sharpening value of `70` :

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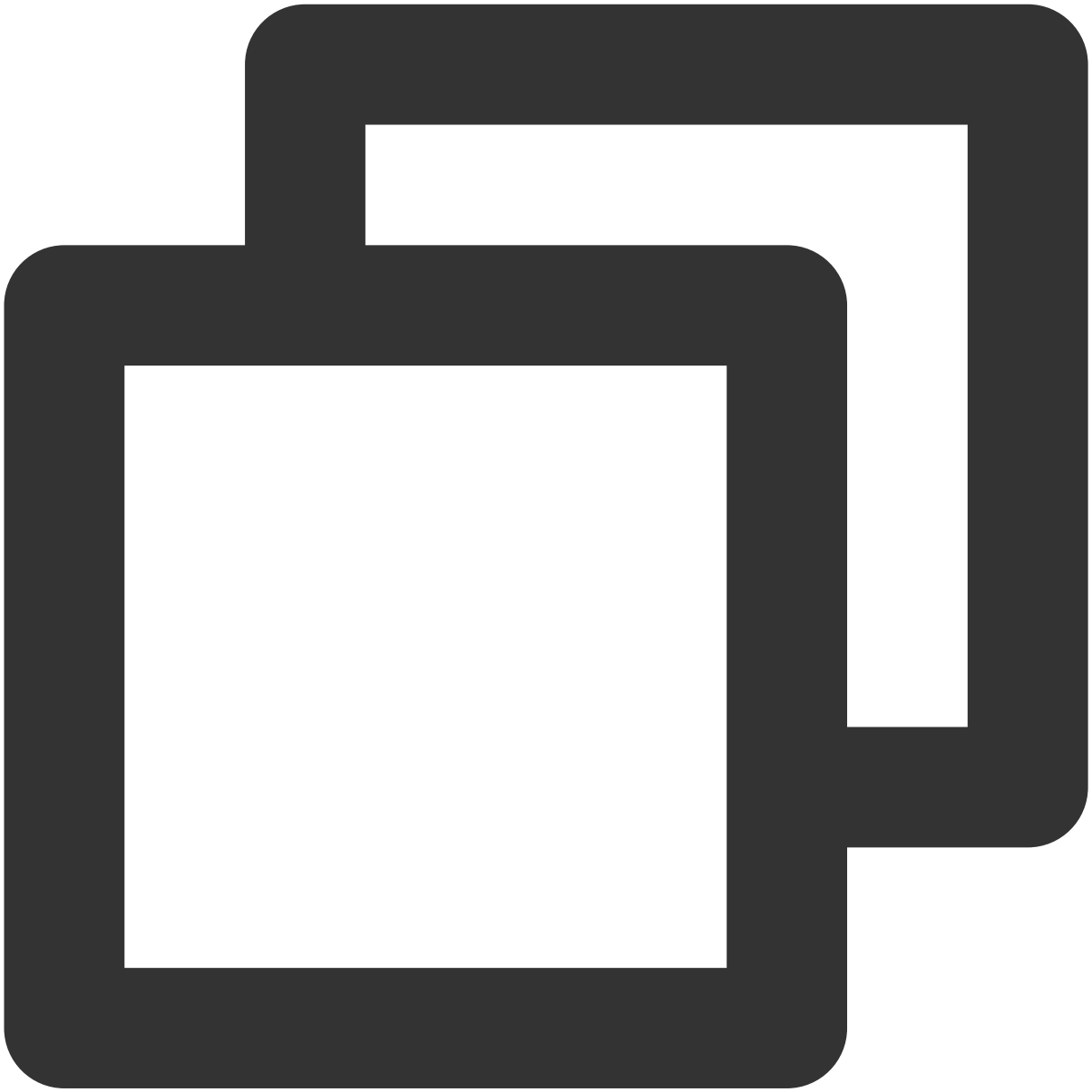

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/shar
```

Output image:

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Example 2: sharpening an image with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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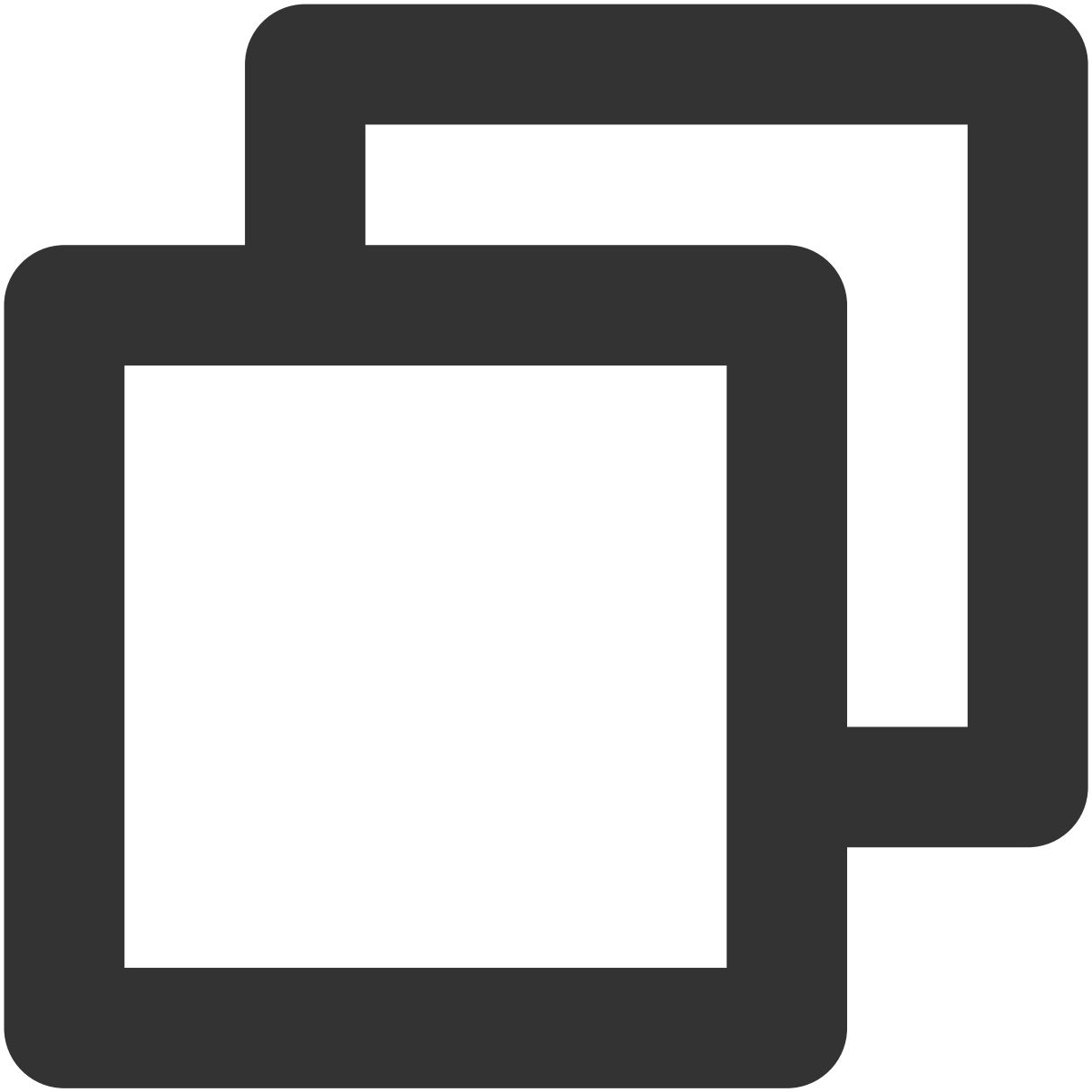

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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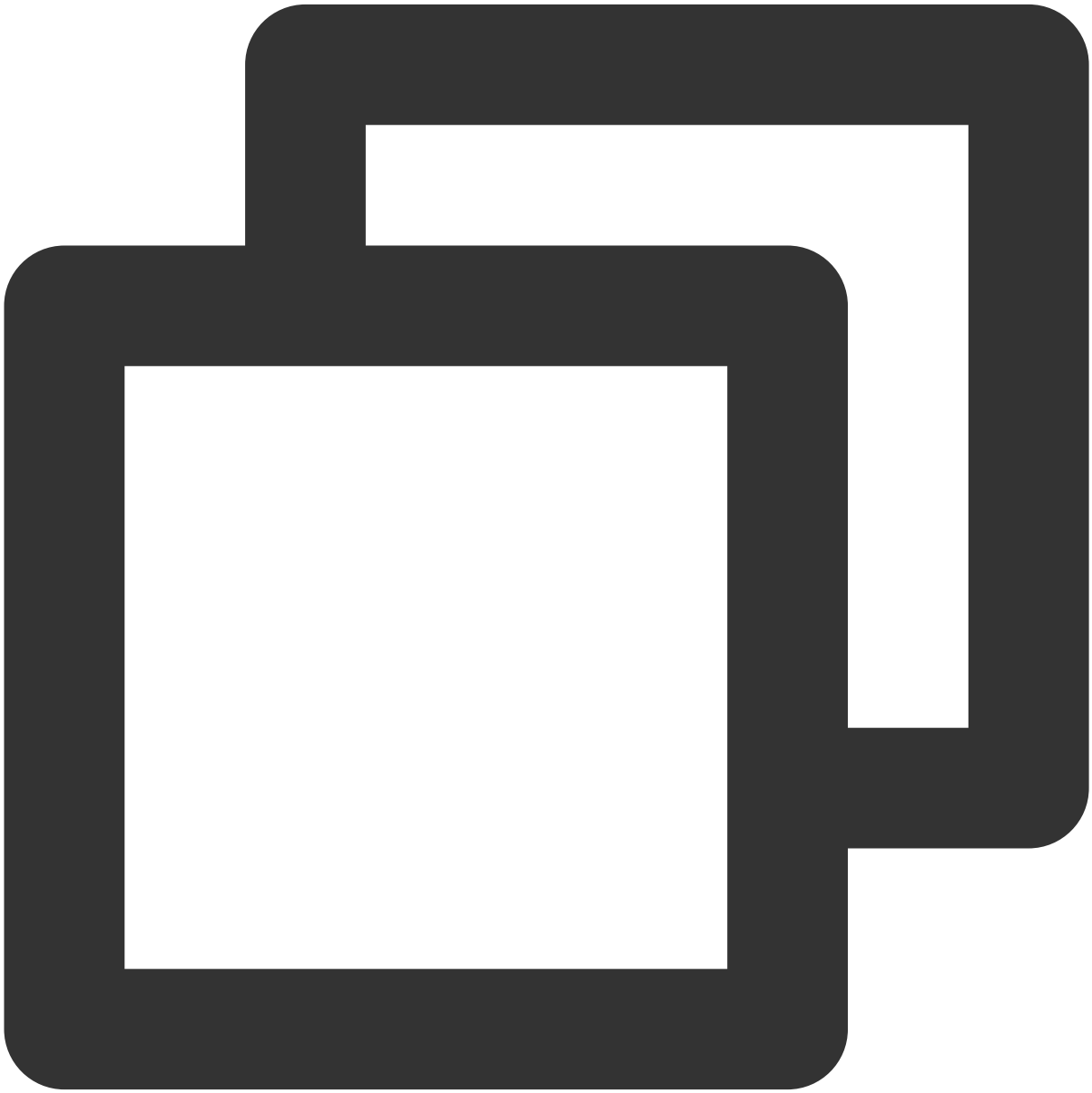
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Grayscale Image

Last updated：2024-06-12 15:20:05

Overview

COS uses CI's **imageMogr2/grayscale** API to set an image to be a grayscale image.

API Format

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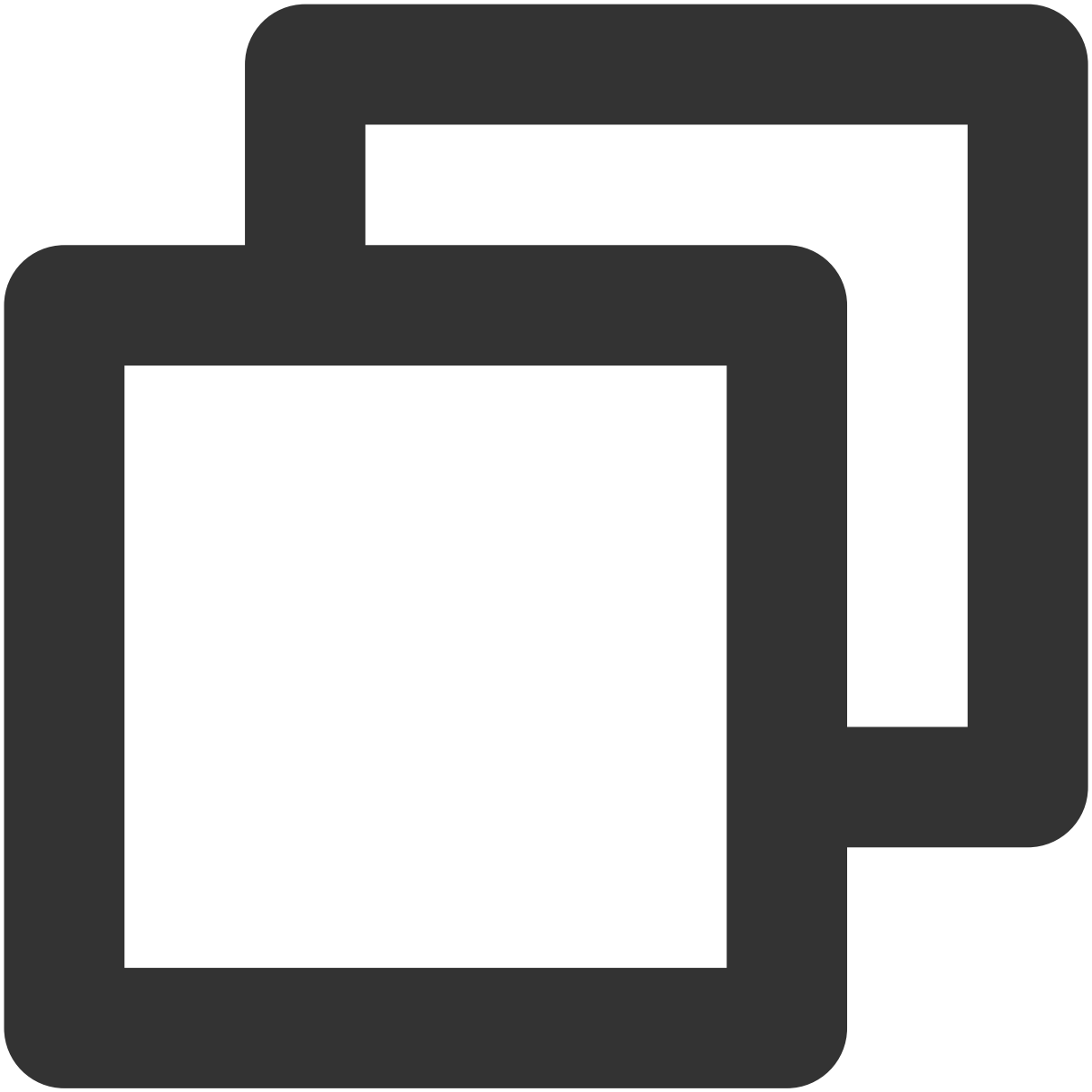

```
download_url?imageMogr2/grayscale/<value>
```

Parameters

Operation: grayscale

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-`

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	`APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/grayscale/<value>	Whether to set an image to be a grayscale image. `value` being `0` indicates not to modify the image. `value` being `1` indicates to set the image to be a grayscale image.
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Set an image to be a grayscale image:

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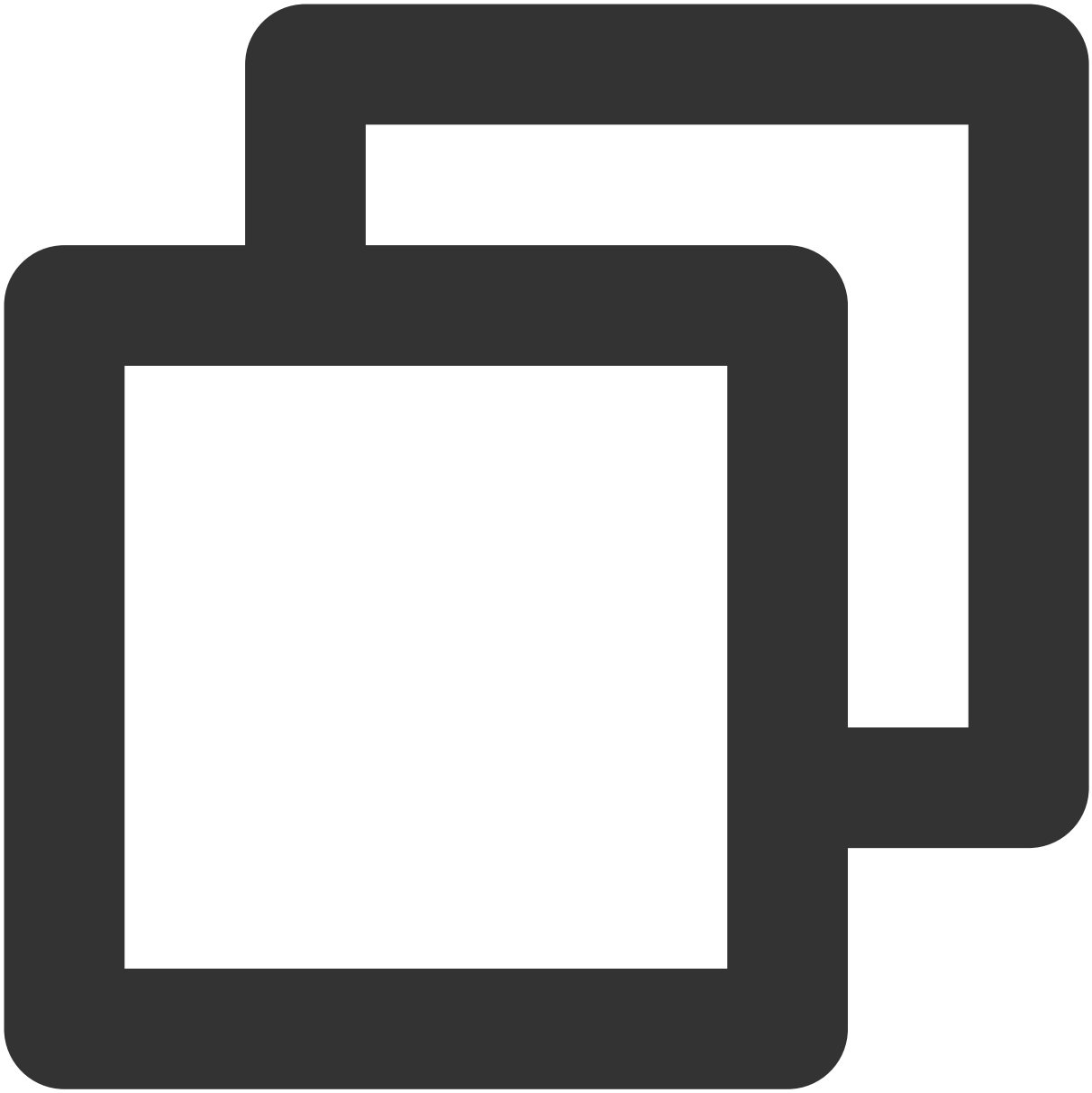

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/gray
```

Output image:

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Image Watermark

Last updated：2024-06-12 15:20:05

Feature Overview

COS implements image watermarking using the **watermark** API provided by CI, and thus only images stored in CI-bound buckets can be processed.
An image can be processed:
Upon download
Upon upload
In cloud

Restrictions

Format: JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Static image size: The input image cannot be larger than 32 MB. Its dimensions cannot exceed 50,000 pixels and its resolution cannot exceed 250 million pixels. The dimensions of the output image cannot exceed 50,000 pixels.
WebP image size: The input image cannot be larger than 32 MB. Its dimensions cannot exceed 16,383 pixels and its resolution cannot exceed 250 million pixels. The dimensions of the output image cannot exceed 16,383 pixels.
Animated image size: For the input or output image, the total number of pixels (width x height x number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.
Note:
Image Processing is charged by CI. For detailed pricing, see Image Processing Fees.
You can overlay up to 10 image watermarks over a single image.
An animated image cannot be used as a watermark.

API Format

1. Processing upon download

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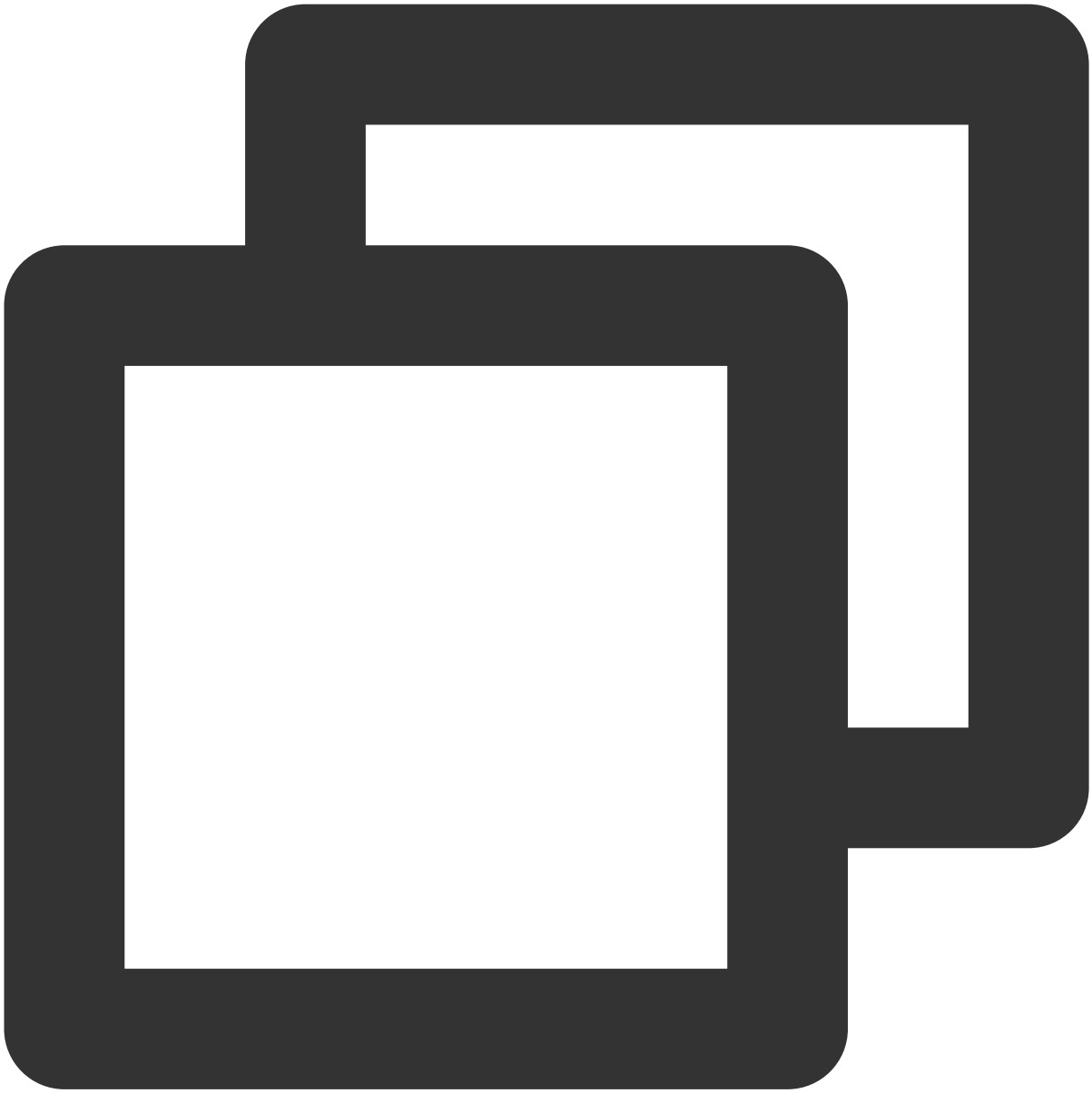

```
GET /<ObjectKey>?watermark/1/image/<encodedURL>
                        /gravity/<gravity>
                        /dx/<dx>
                        /dy/<dy>
                        /blogo/<type> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

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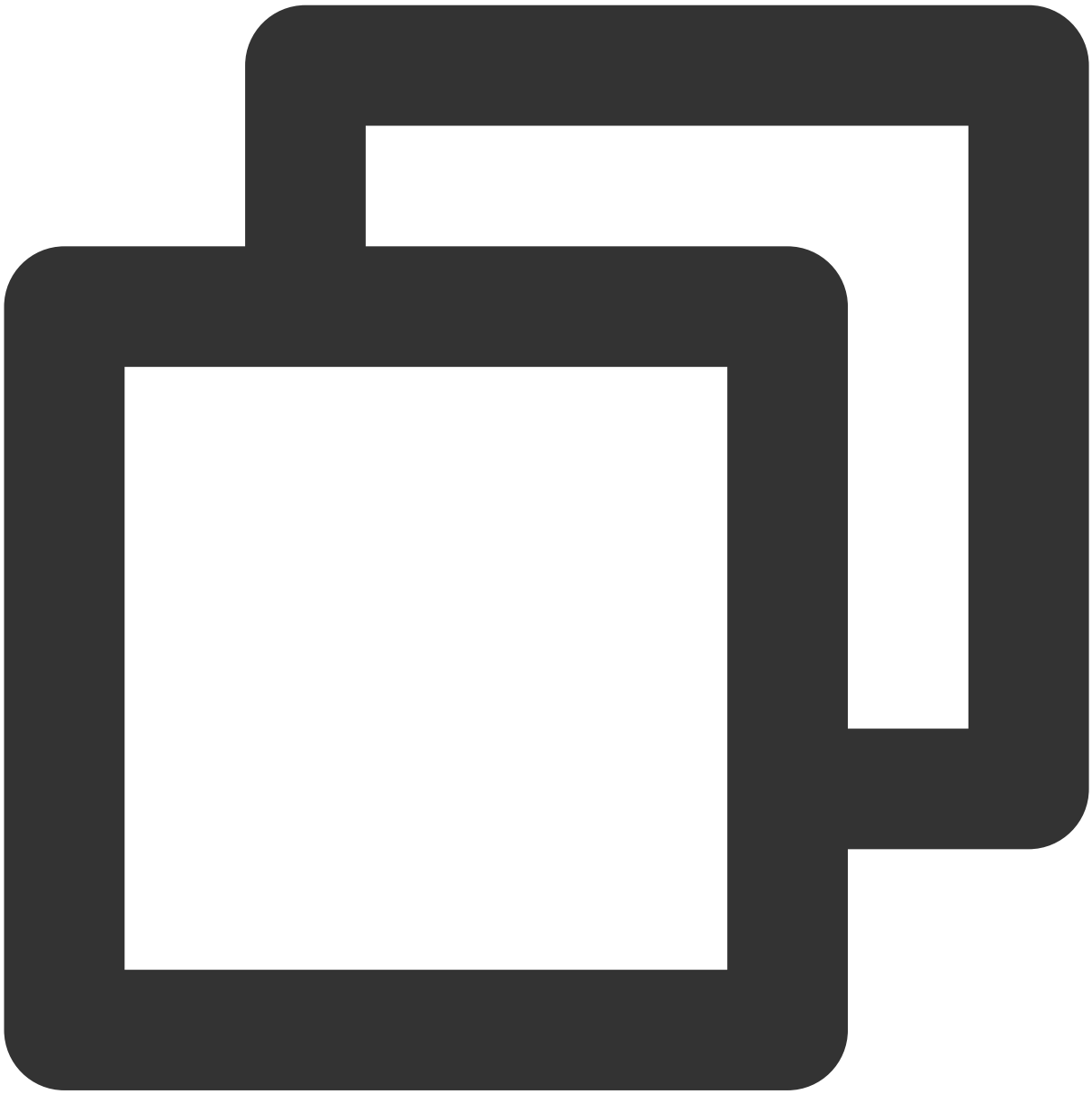
Spaces and line breaks above are for readability only and can be ignored.

2. Processing upon upload



```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
```

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```
    "rules": [{
        "fileid": "exampleobject",
        "rule": "watermark/1/image/<encodedURL>
                            /gravity/<gravity>
                            /dx/<dx>
                            /dy/<dy>
                            /blogo/<type>"
    }]
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data

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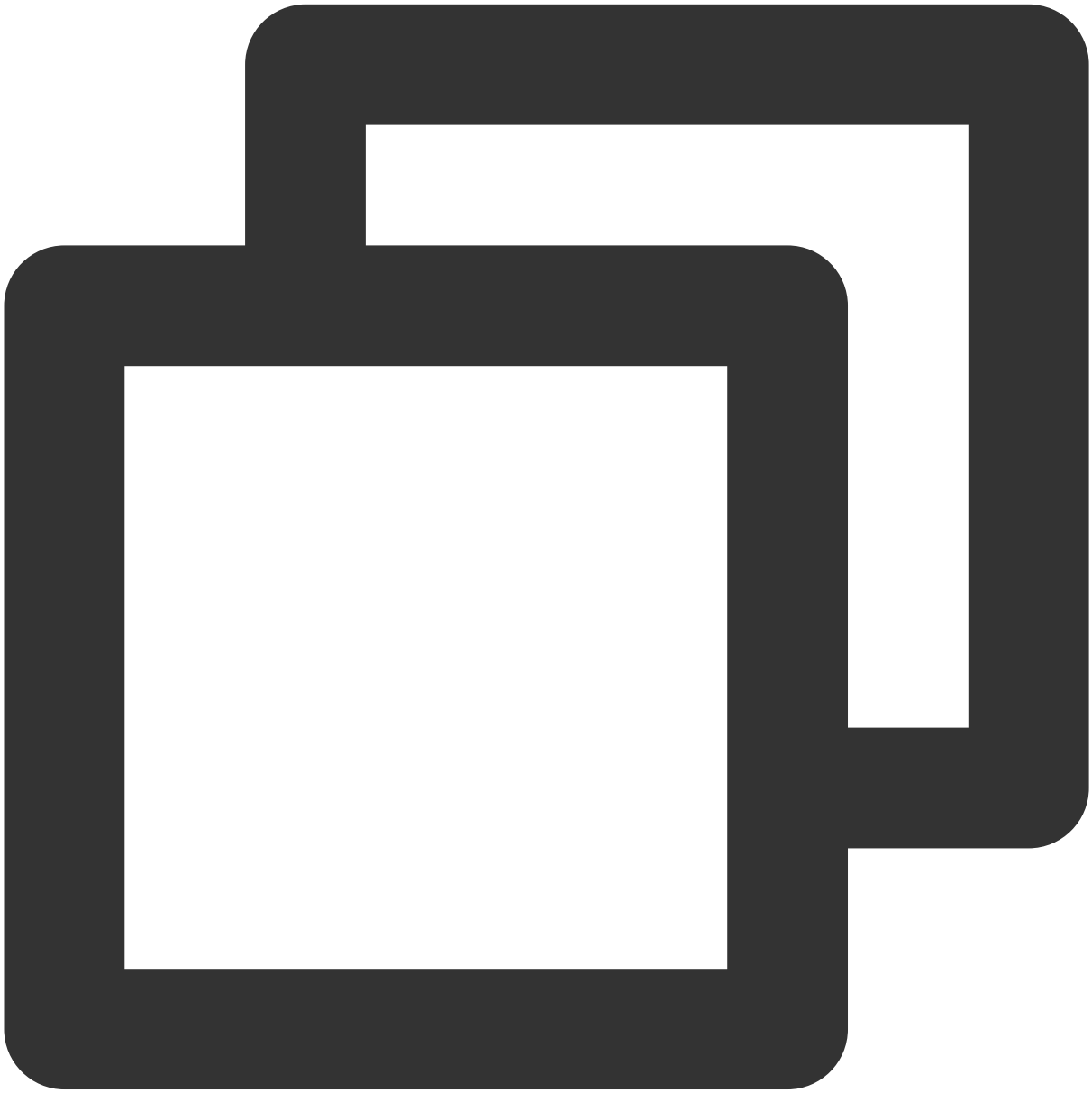

```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "watermark/1/image/<encodedURL>
```

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```
                        /gravity/<gravity>
                        /dx/<dx>
                        /dy/<dy>
                        /blogo/<type>"
    }]
}
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Parameters

In the code above, `watermark` is the operation name and the number `1` indicates that the watermark is an image.

Parameter	Description
ObjectKey	Object name, such as folder/sample.jpg.
/image/	Base64 URL-safe encoded URL of the image watermark. For example, if the image watermark URL i 1250000000.cos.ap-shanghai.myqcloud.com/shuiyin_2.png, you should set this parameter to aHR0cDovL2V4YW1wbGVidWNrZXQtMTI1MDAwMDAwMC5jb3MuYXAtc2hhbmdoYWkubXlxY2x
/gravity/	Position of the image watermark, which is a square in a 3x3 grid. Default value: SouthEast
/dx/	Horizontal offset in pixels. Default value: 0
/dy/	Vertical offset in pixels. Default value: 0
/blogo/	Adaptation mode for an image watermark that is larger than the input image. Valid values: 1: scales the image watermark to the size of the input image. 2: crops the image watermark to the size of the input image.
/scatype/	Scaling mode for the image watermark (relative to the input image). This parameter must be used tog 1: scales by width. 2: scales by height. 3: scales by area.
/spcent/	Scale ratio of the image watermark, in permillage. This parameter must be used together with `/scat` 1–1000 (if /scatype/ is set to 1) 1–1000 (if /scatype/ is set to 2) 1–250 (if /scatype/ is set to 3) Example: `http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jp`

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	`watermark/1/image/xxxxxxx/scatype/3/spcent/250`
/dissolve/	Opacity of the image watermark. Value range: 1–100. Default value: 90 (meaning 90% opacity)
/batch/	Whether to tile the image watermark. If this parameter is set to 1, the image watermark will be tiled ac
/degree/	Angle to rotate the image watermark. This parameter is valid only when /batch/ is set to 1. Value rang

Note:

An image watermark must:

Be stored in the same bucket as the input image.

Have a URL containing a COS domain name (a CDN acceleration domain name such as `examplebucket-1250000000.file.myqcloud.com/shuiyin_2.png` is unsupported) and be accessible (if the image watermark is set to private-read, it must carry a signature).

Have a URL starting with `http://` . Note that “http://” cannot be omitted or changed to “https://”. For example, `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/shuiyin_2.png` and `https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/shuiyin_2.png` are invalid watermark URLs.

3x3 Grid Position Diagram

The 3x3 grid position diagram is as follows. Once you specify the `gravity` parameter for an operation, the corresponding red dot becomes the reference point, and offsets will be relative to this point.

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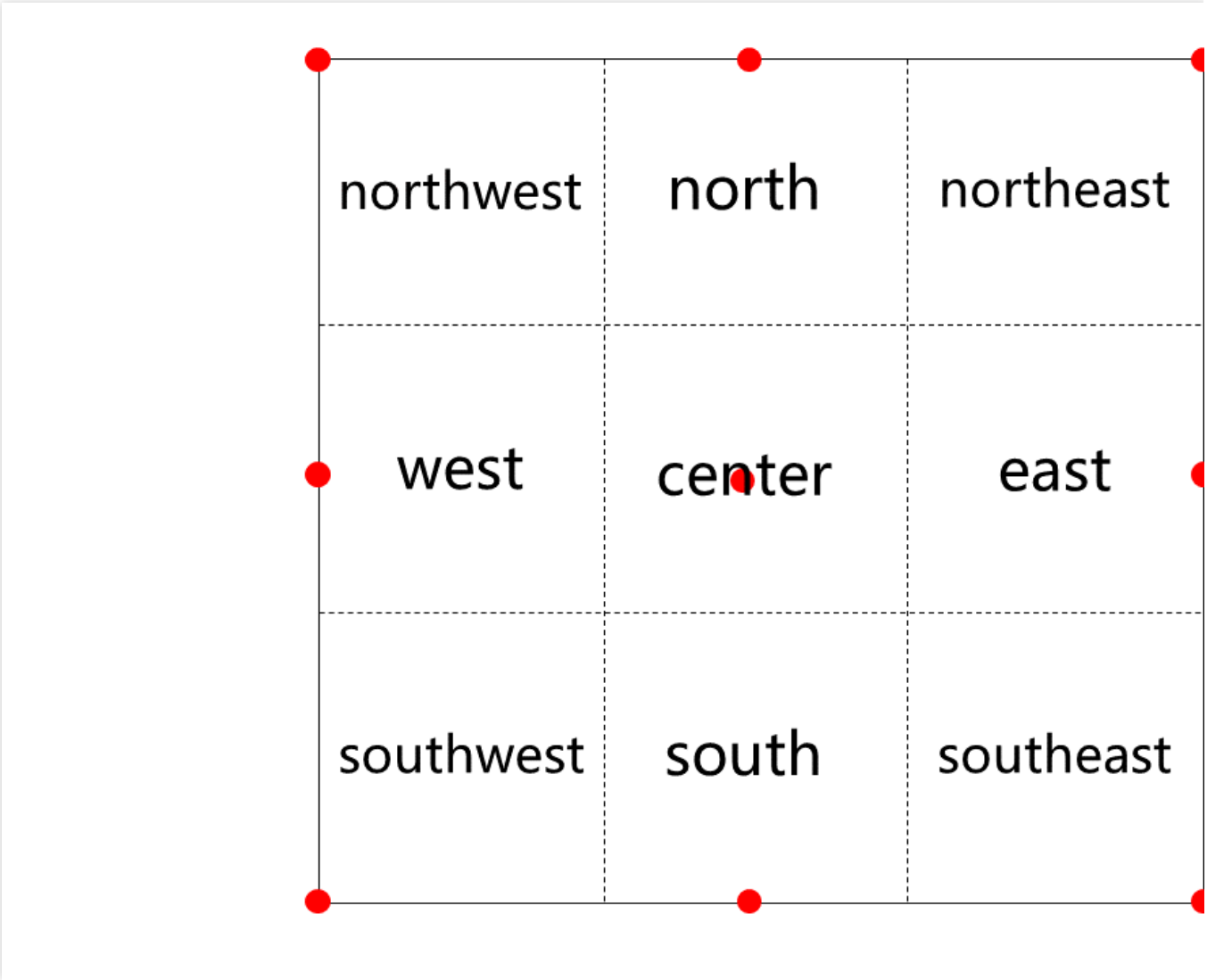

Note:

If `gravity` is set to `center`, `dx` and `dy` are invalid.

If `gravity` is set to `north` or `south`, `dx` is invalid.

If `gravity` is set to `west` or `east`, `dy` is invalid.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: Adding an image watermark

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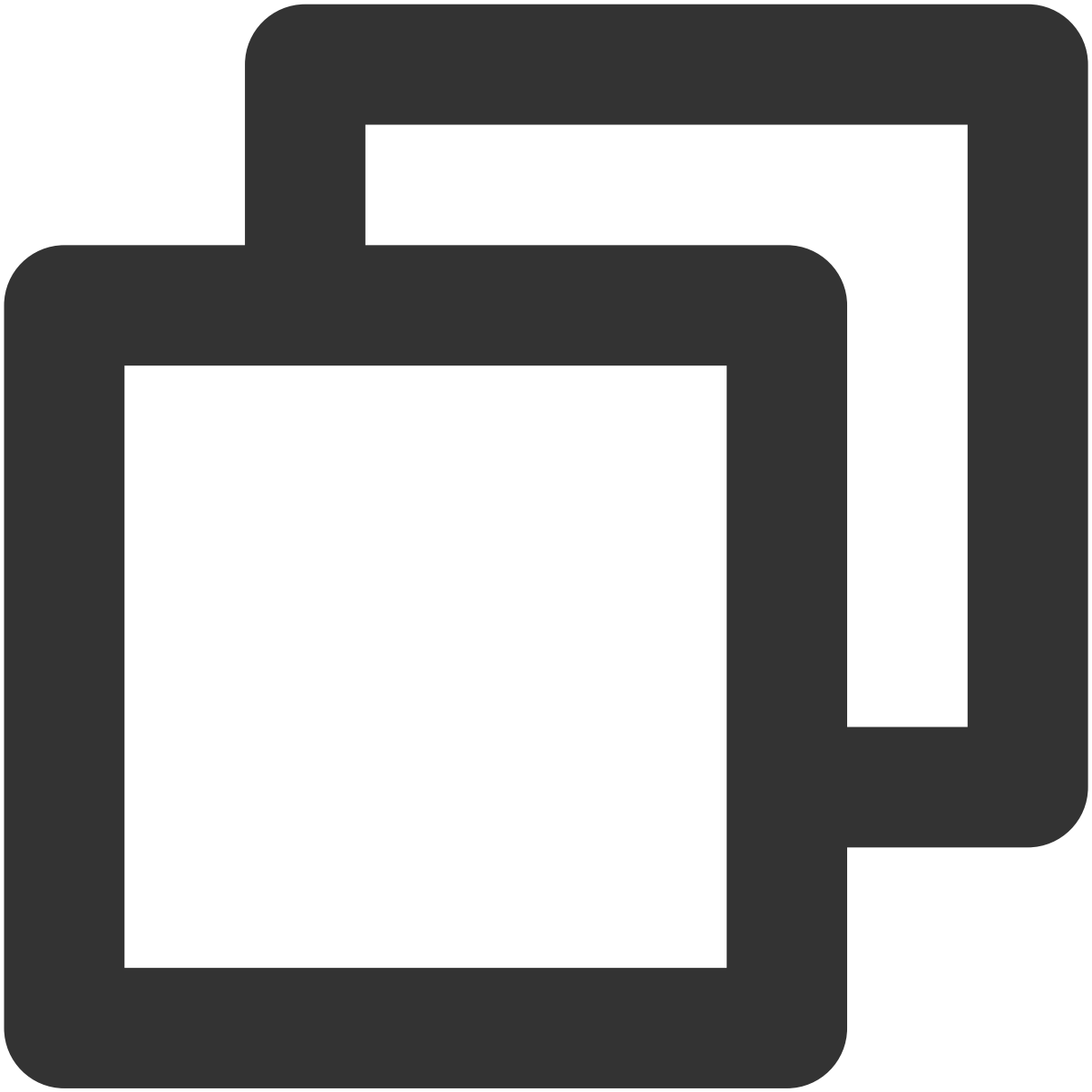

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?watermark/1/ima
```

After an image watermark is added:

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Example 2: Adding an image watermark with the tile mode and opacity specified

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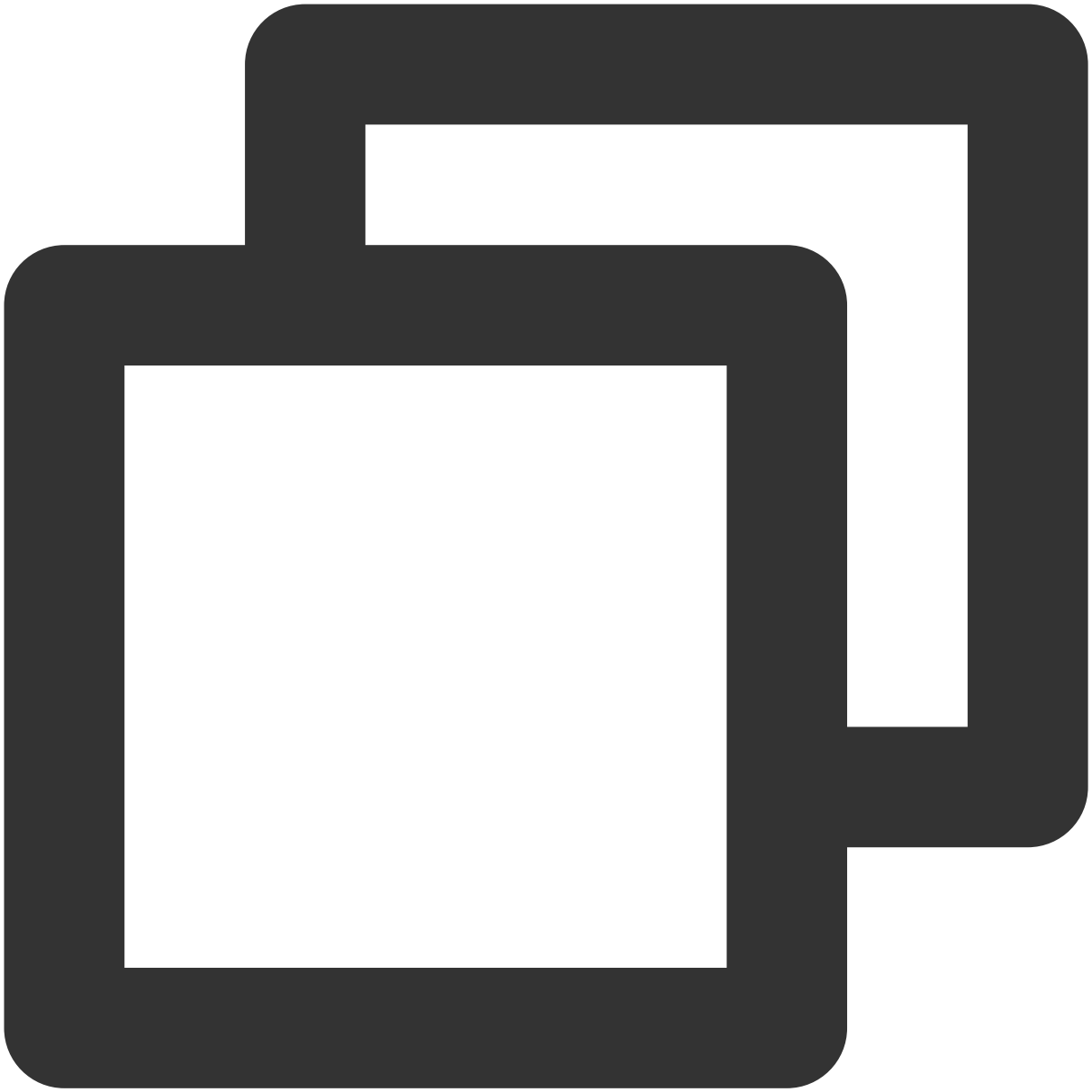

```
https://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?watermark/1/im
```

The effect of an added image watermark rotated by 45 degrees and tiled with 40% opacity is as follows:

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Example 3: Adding an image watermark with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&).

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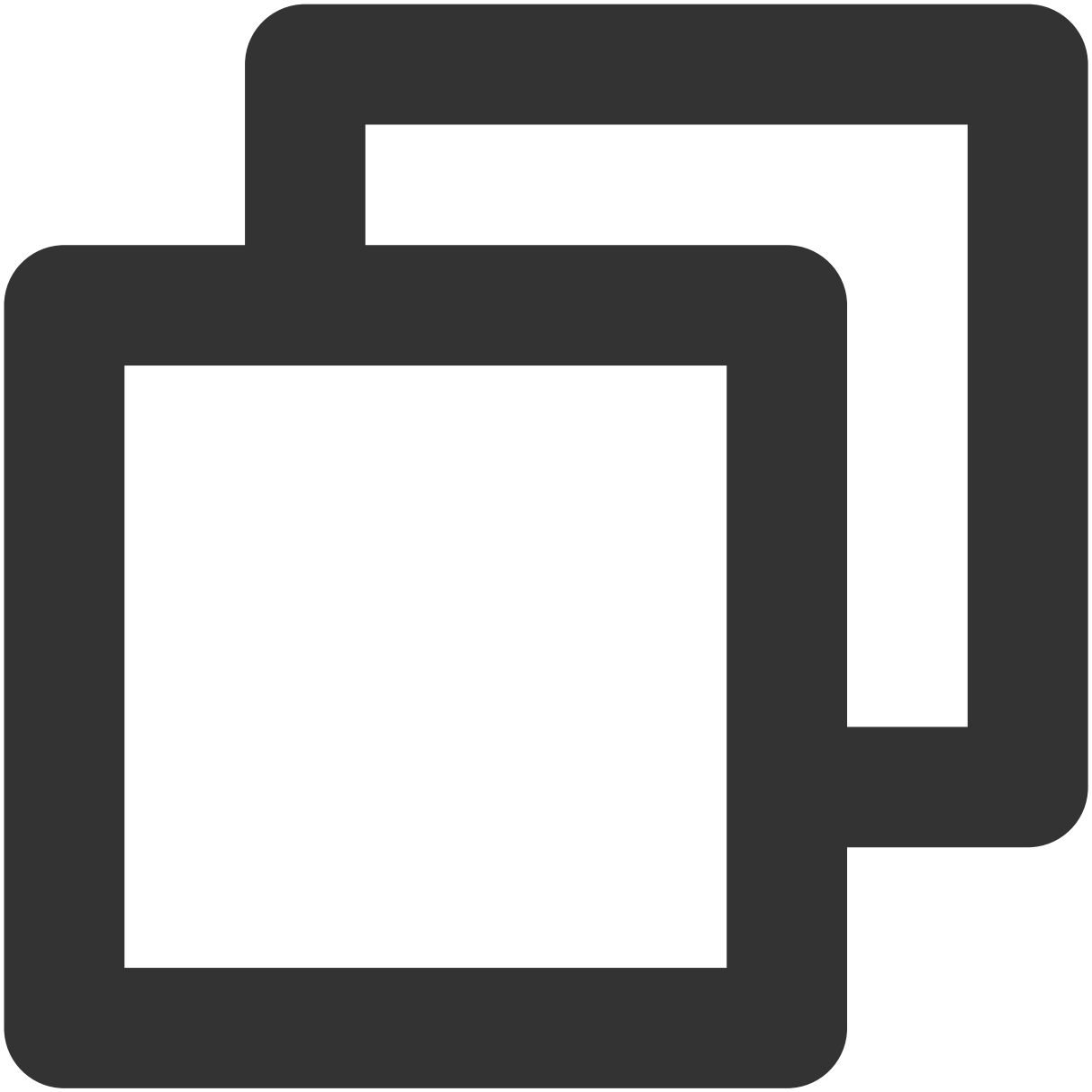

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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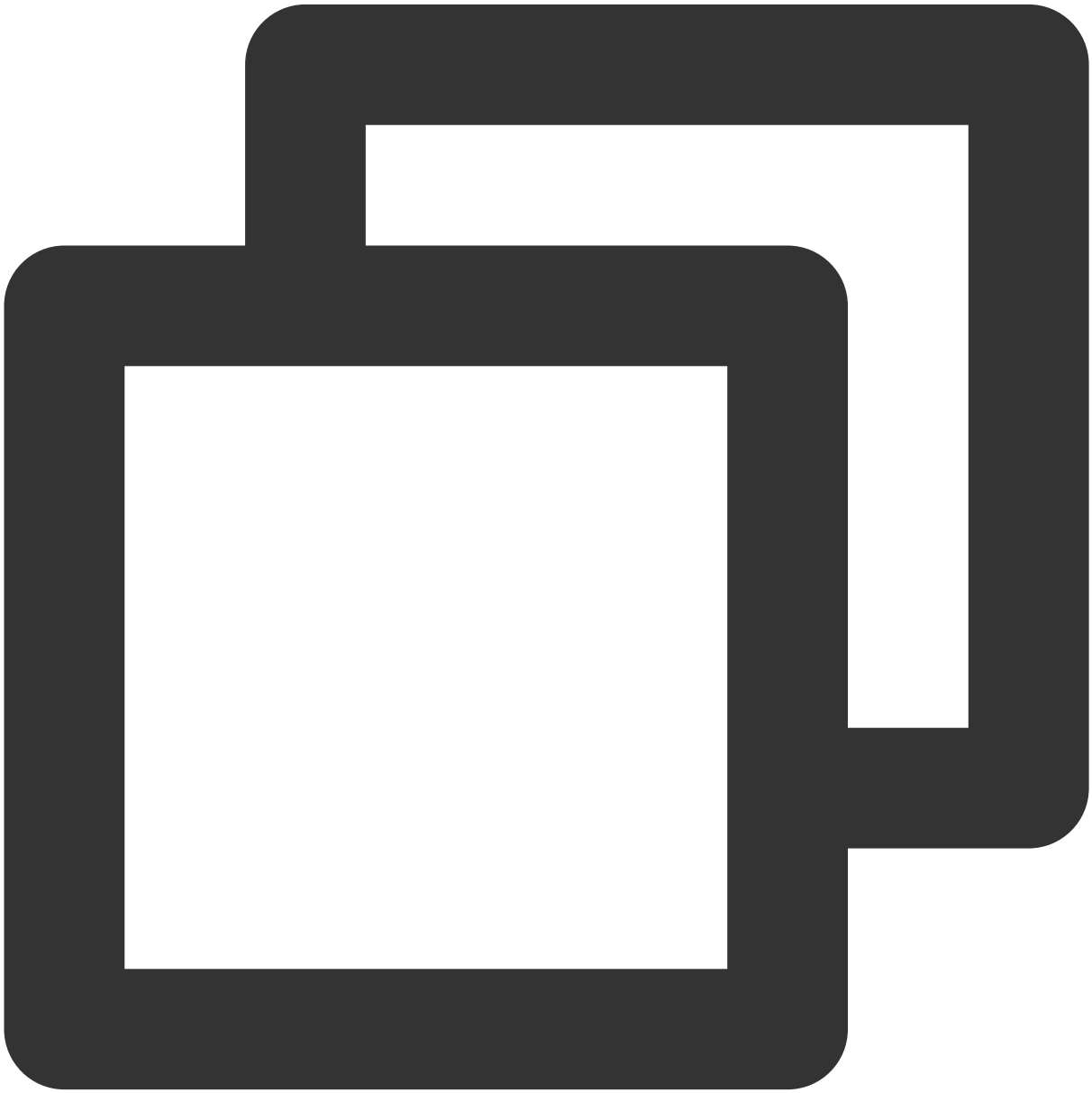
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might not be valid or accessible anymore). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Text Watermark

Last updated：2024-06-12 15:20:05

Feature Overview

COS uses the **watermark** API provided by CI to add text watermarks in real time.

Note:

Image Processing is charged by CI. For detailed pricing, see **Basic image processing fee** in Billing and Pricing.

An image can be processed:

Upon download

Upon upload

In cloud

Restrictions

Format: JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.

Static image size: The input image cannot be larger than 32 MB. Its dimensions cannot exceed 50,000 pixels and its resolution cannot exceed 250 million pixels. The dimensions of the output image cannot exceed 50,000 pixels.

WebP image size: The input image cannot be larger than 32 MB. Its dimensions cannot exceed 16,383 pixels and its resolution cannot exceed 250 million pixels. The dimensions of the output image cannot exceed 16,383 pixels.

Animated image size: For the input or output image, the total number of pixels (width x height x number of frames) cannot exceed 250 million pixels.

Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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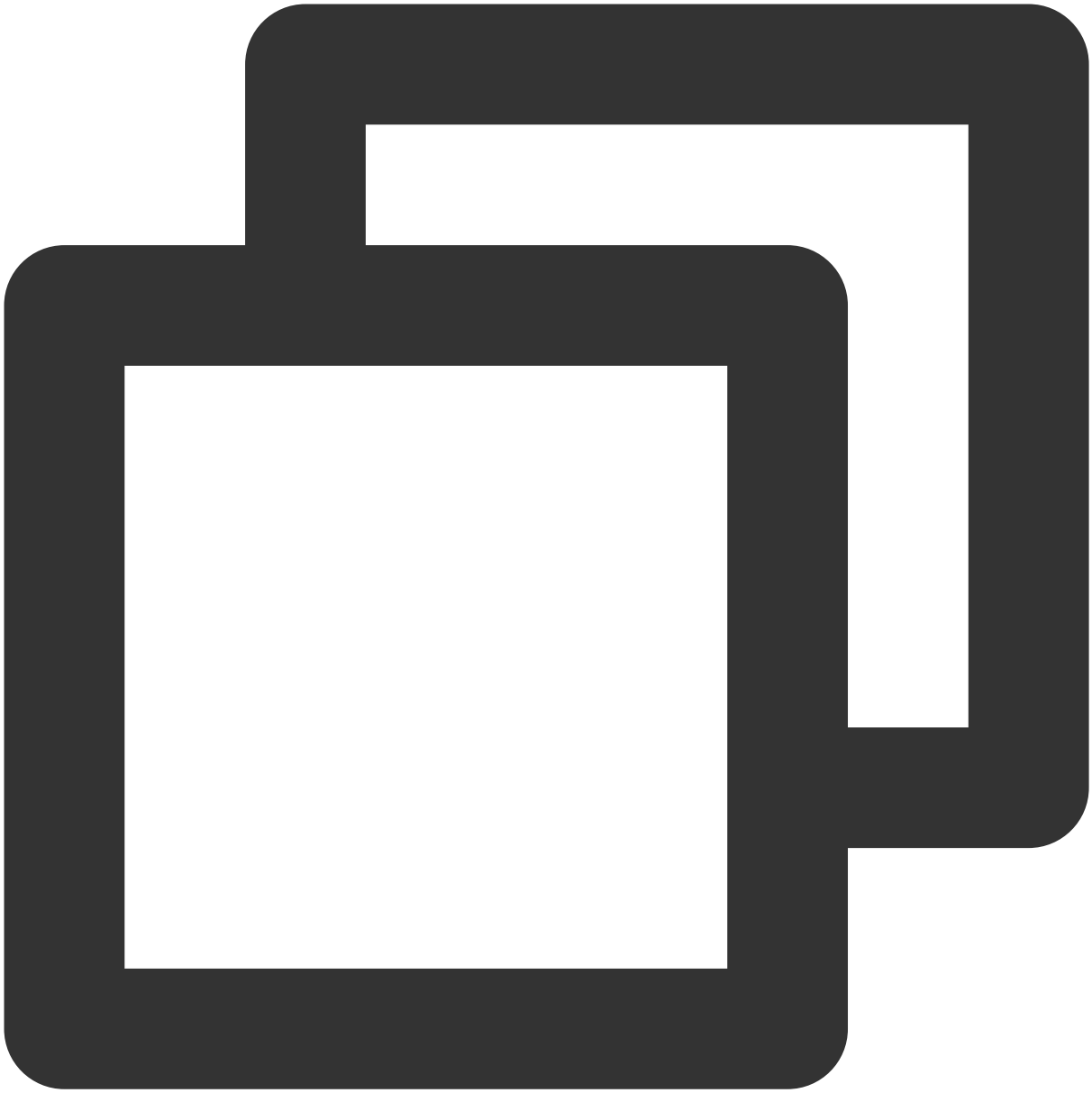

```
GET /<ObjectKey>?watermark/2/text/<encodedText>
                        /font/<encodedFont>
                        /fontsize/<fontSize>
                        /fill/<encodedColor>
                        /dissolve/<dissolve>
                        /gravity/<gravity>
                        /dx/<dx>
                        /dy/<dy>
                        /batch/<type>
                        /degree/<degree>
                        /shadow/<shadow> HTTP/1.1
```

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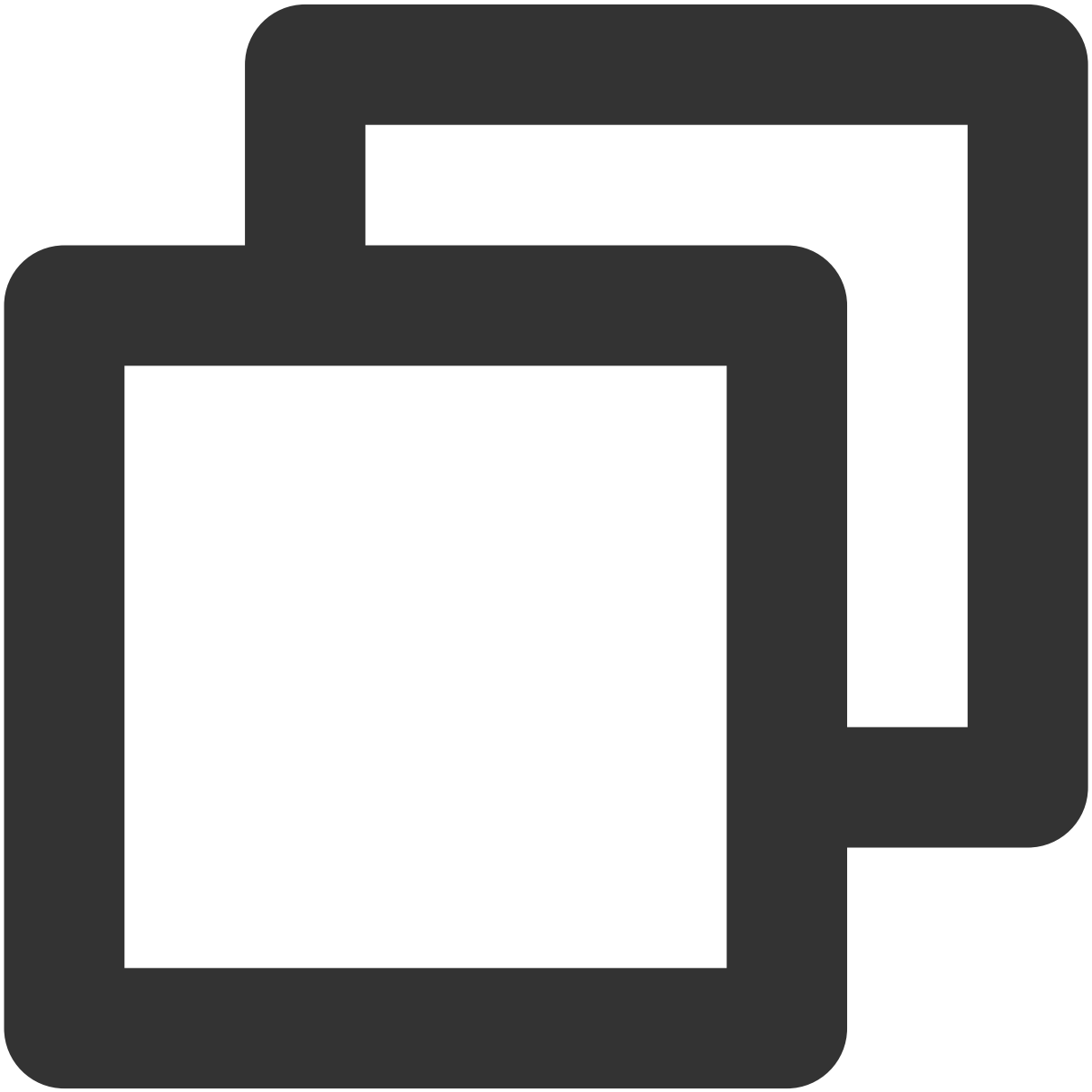
```
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Spaces and line breaks above are for readability only and can be ignored.

2. Processing upon upload



```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
```

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```
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "watermark/2/text/<encodedText>
                        /font/<encodedFont>
                        /fontsize/<fontSize>
                        /fill/<encodedColor>
                        /dissolve/<dissolve>
                        /gravity/<gravity>
                        /dx/<dx>
                        /dy/<dy>
                        /batch/<type>
                        /degree/<degree>
                        /shadow/<shadow>"
  }]
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data

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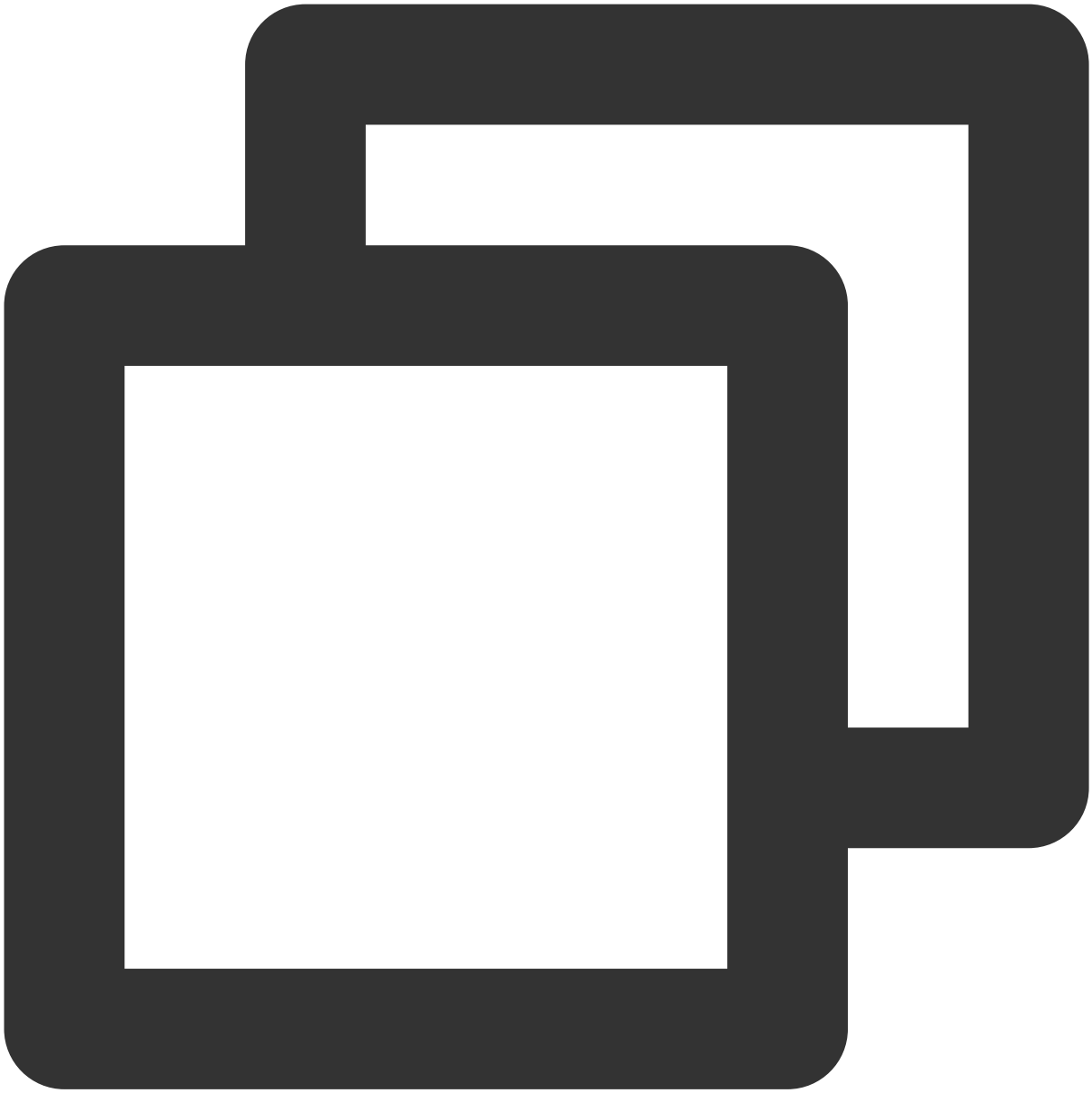

```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "watermark/2/text/<encodedText>
```

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```
                        /font/<encodedFont>
                        /fontsize/<fontSize>
                        /fill/<encodedColor>
                        /dissolve/<dissolve>
                        /gravity/<gravity>
                        /dx/<dx>
                        /dy/<dy>
                        /batch/<type>
                        /degree/<degree>
                        /shadow/<shadow>"
    }]
}
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Parameters

In the code above, `watermark` is the operation name and the number `2` indicates that the watermark is a text.

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg` .
/text/	Watermark text, which must be Base64 URL-safe encoded
/font/	Font of the text, which must be URL-safe Base64-encoded. Default font: Tahoma.ttf (see supported fonts.)
/fontsize/	Font size, in pt. Default value: 13. To scale the text watermark proportionally based on the original image, convert the text watermark to a PNG image. For more configuration information, see Image Watermarking
/fill/	Font color. The value must be in hexadecimal format, for example, `#FF0000` . For format conversion, see RGB Color Codes Chart. The value must be URL-safe Base64-encoded. Default value: `#3D3D3D` (gray)
/dissolve/	Text opacity. Value range: 1–100. Default value: `90` (meaning 90% opacity)
/gravity/	Position of the text watermark, which is a square in a 3x3 grid. Default value: `southeast`
/dx/	Horizontal offset in pixels. Default value: `0`

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/dy/	Vertical offset in pixels. Default value: `0`
/batch/	Whether to tile the text watermark. If this parameter is set to `1` , the text watermark will be tiled across the input image.
/spacing/	The horizontal and vertical spacing (in tile mode) relative to the width and height of the text watermark image, respectively, in percentage. Value range: [0,100]. Default value: `10`
/degree/	Angle to rotate text watermarks. This parameter is valid only when `/batch/` is set to `1` . Value range: 0–360. Default value: `0`
/shadow/	Text shadow effect. Value range: 0–100. Default value: `0` , indicating no shadow.
/scatype/	Scaling mode for the text watermark (relative to the input image). This parameter must be used together with `/spcent/` . Valid values: `1` : Scales by width. `2` : Scales by height. `3` : Scales by area.
/spcent/	Scale ratio of the watermark, in permillage. This parameter must be used together with `/scatype/` . Value range: 1–1000 (if `/scatype/` is set to `1`) 1–1000 (if `/scatype/` is set to `2`) 1–250 (if `/scatype/` is set to `3`)

3x3 Grid Position Diagram

The 3x3 grid position diagram is as follows. Once you specify the `gravity` parameter for an operation, the corresponding red dot becomes the reference point, and offsets will be relative to this point.

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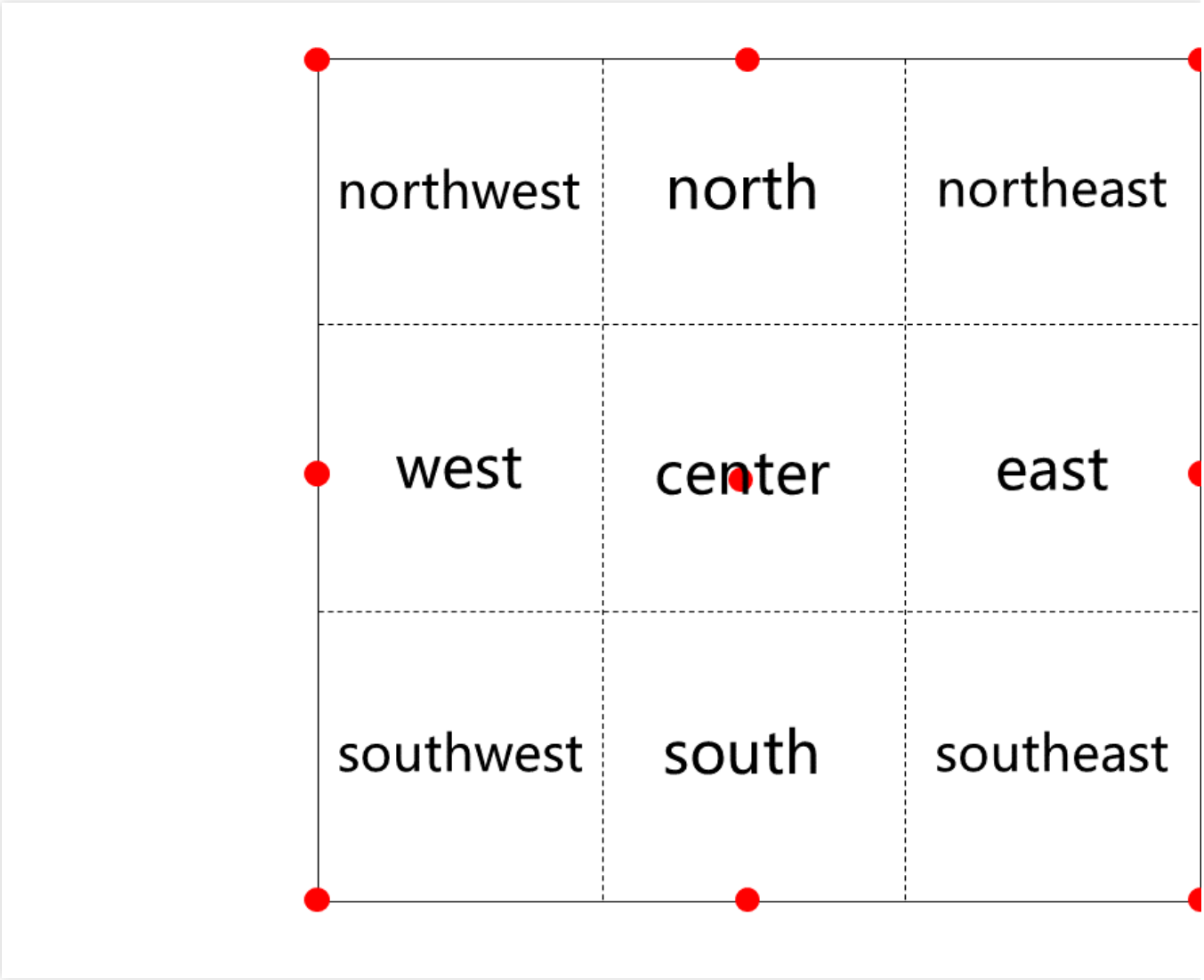

Note:

If `gravity` is set to `center`, `dx` and `dy` are invalid.

If `gravity` is set to `north` or `south`, `dx` is invalid.

If `gravity` is set to `west` or `east`, `dy` is invalid.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: Adding a text watermark

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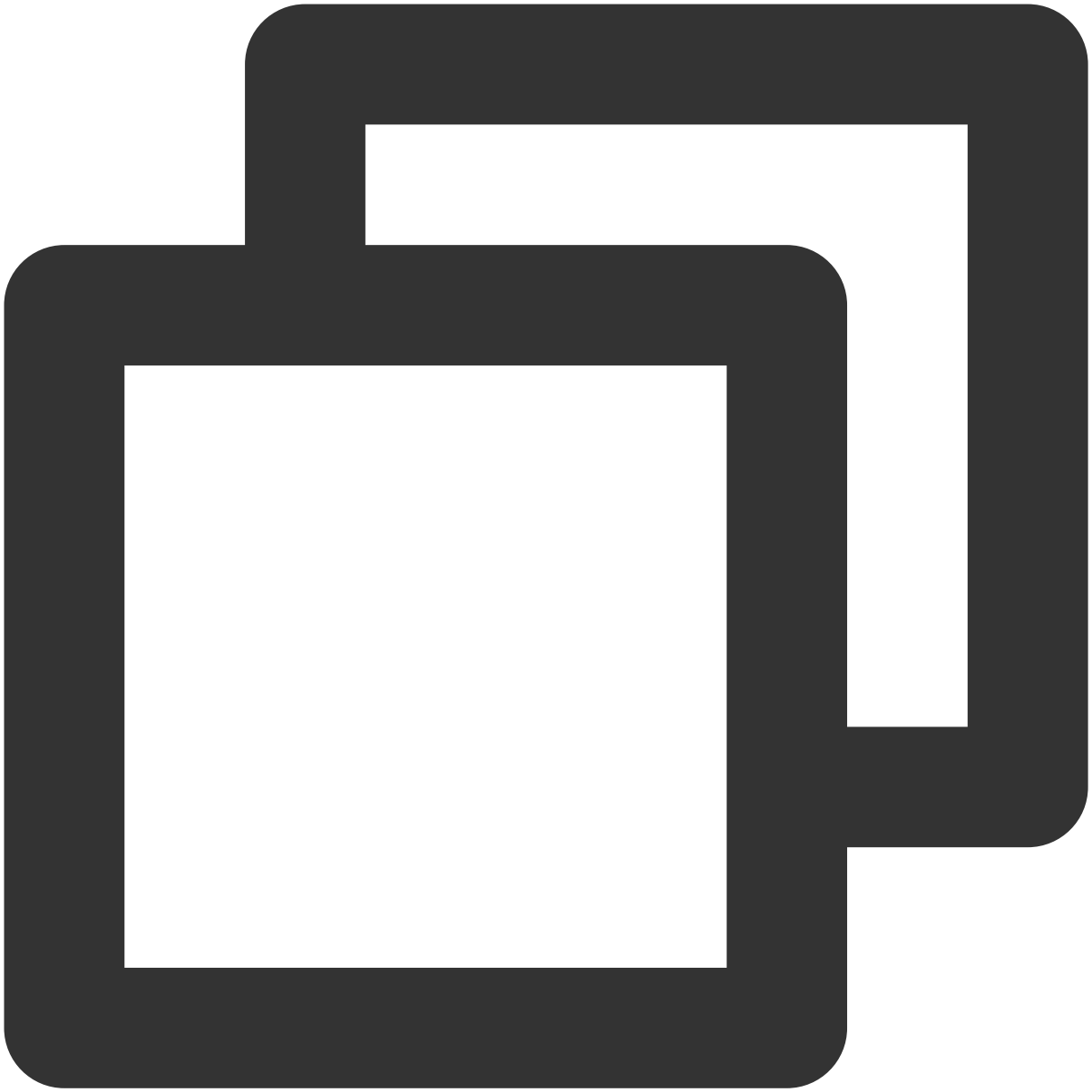

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?watermark/2/tex
```

After text watermarks are added:

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Example 2: Adding a text watermark with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&).

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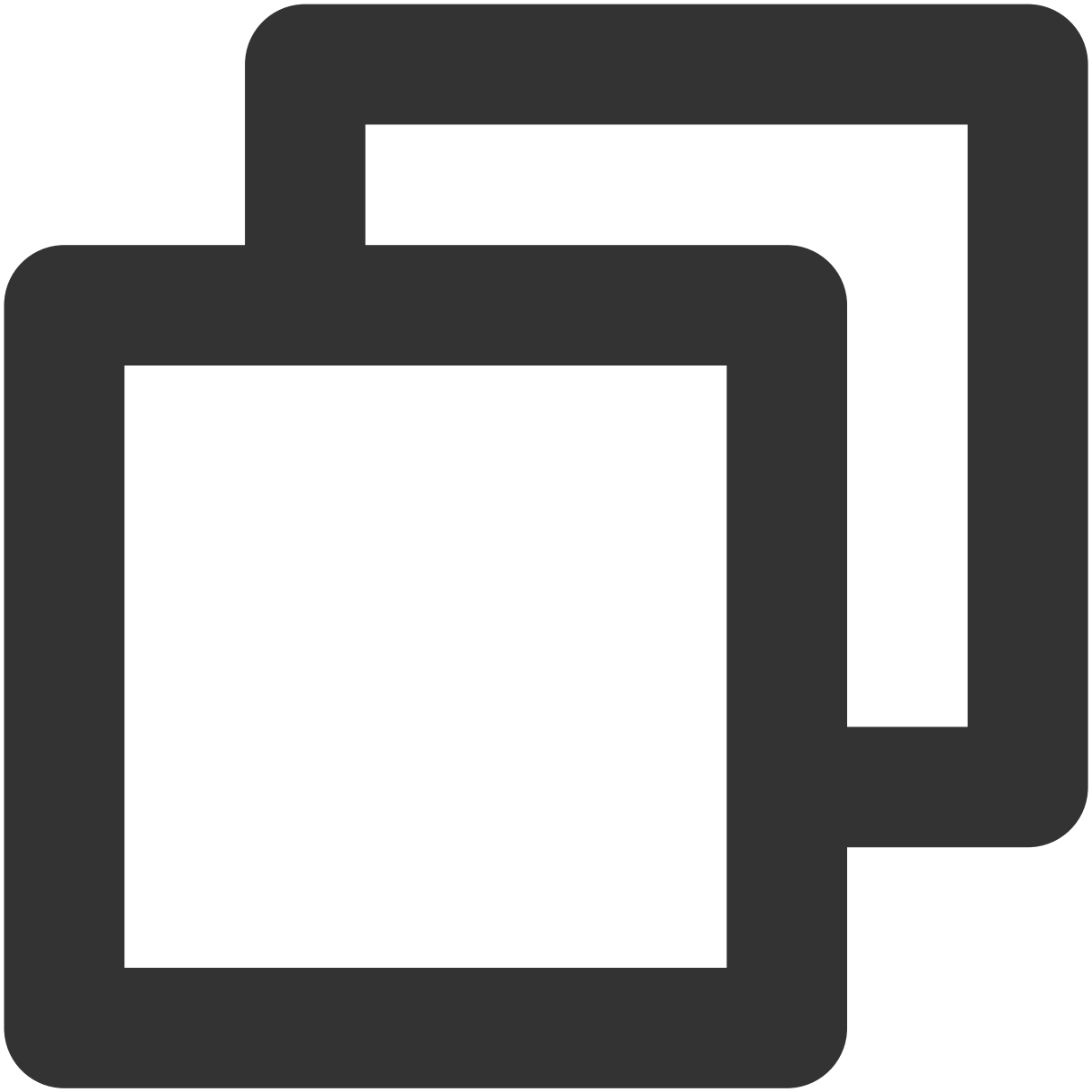

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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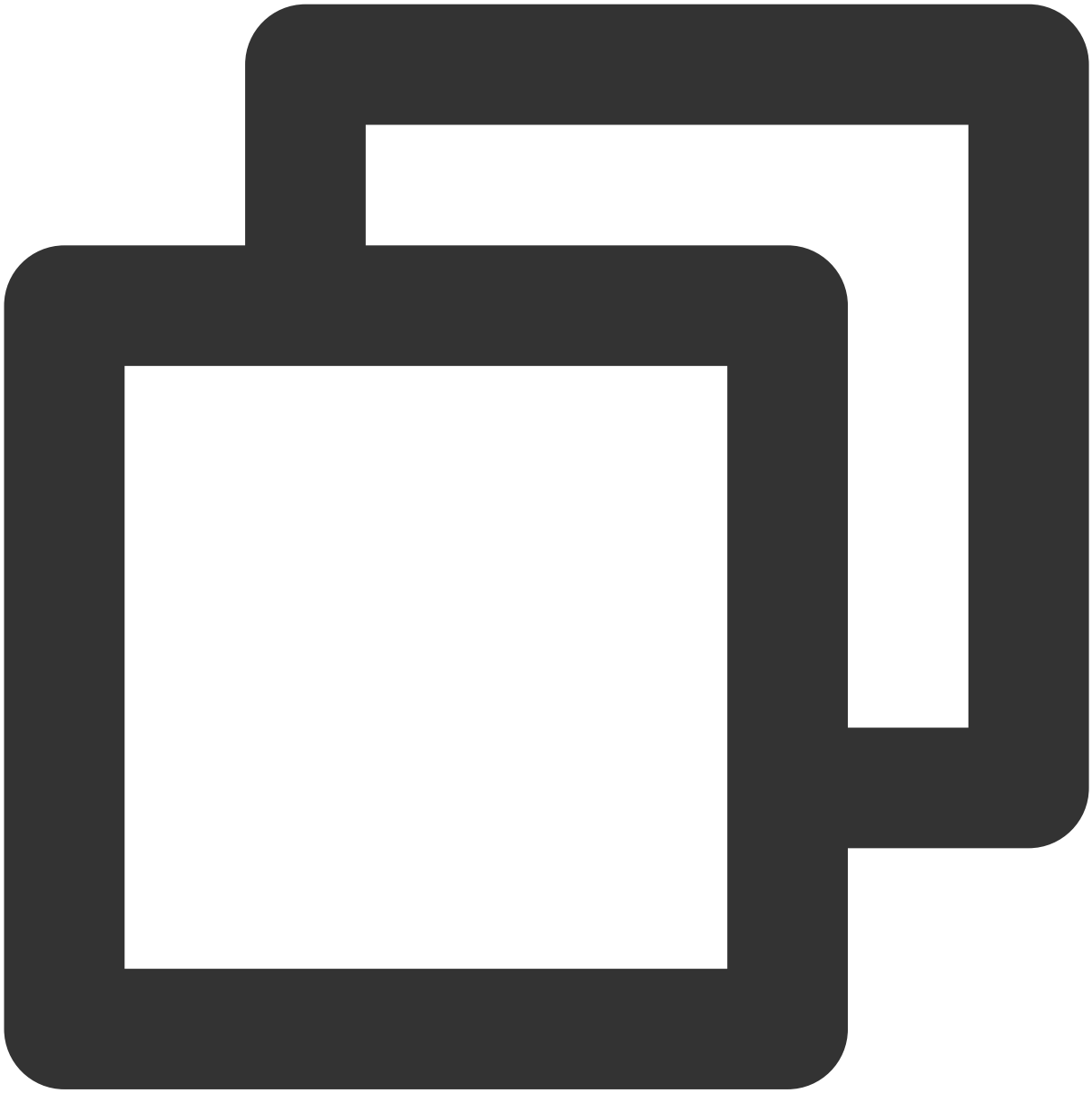
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might not be valid or accessible anymore). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Obtaining Basic Image Information

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageInfo** API provided by CI to query an image's basic information such as its format, width, and height.

Note:

Image Processing is charged by CI. For detailed pricing, please see **Basic image processing fee** in Billing and Pricing.

Usage Limits

The input image cannot be larger than 32 MB.
The width and height of the input image cannot exceed 30,000 pixels and the total number of pixels cannot exceed 250 million. The width and height of the output image cannot exceed 9,999 pixels.
For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.

API Format

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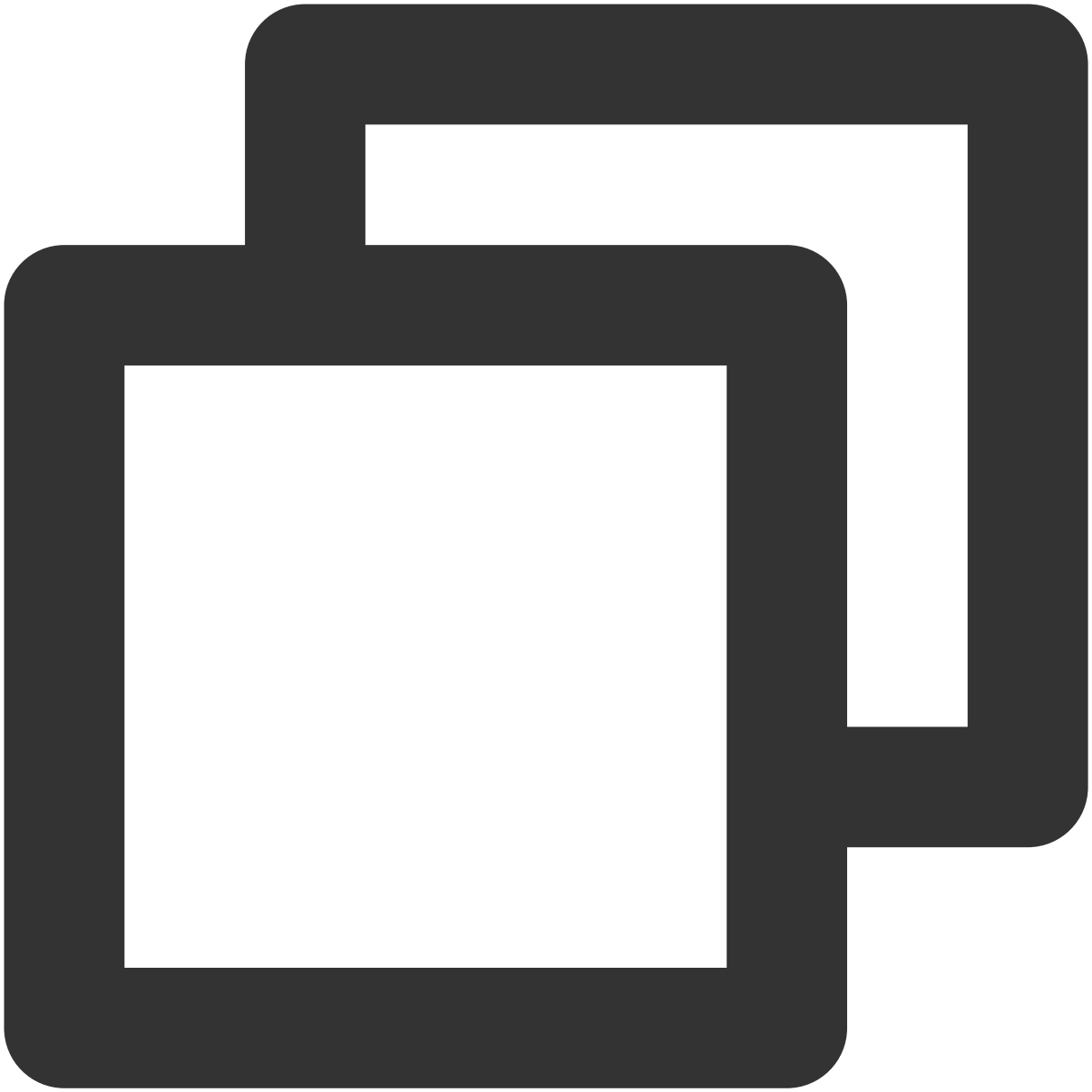

```
download_url?imageInfo
```

Parameters

Request parameters

Operation: imageInfo

Parameter	Description

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download_url	URL of the input image, formatted as <BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name> Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`

Response fields

Parameter	Description
format	Image format such as `png` or `gif`
width	Width of the image, in pixels
height	Height of the image, in pixels
size	Image size, in bytes
md5	MD5 checksum of the image
frame_count	Number of frames. For static images, this value is `1`.

Examples

Example 1: public-read

Request

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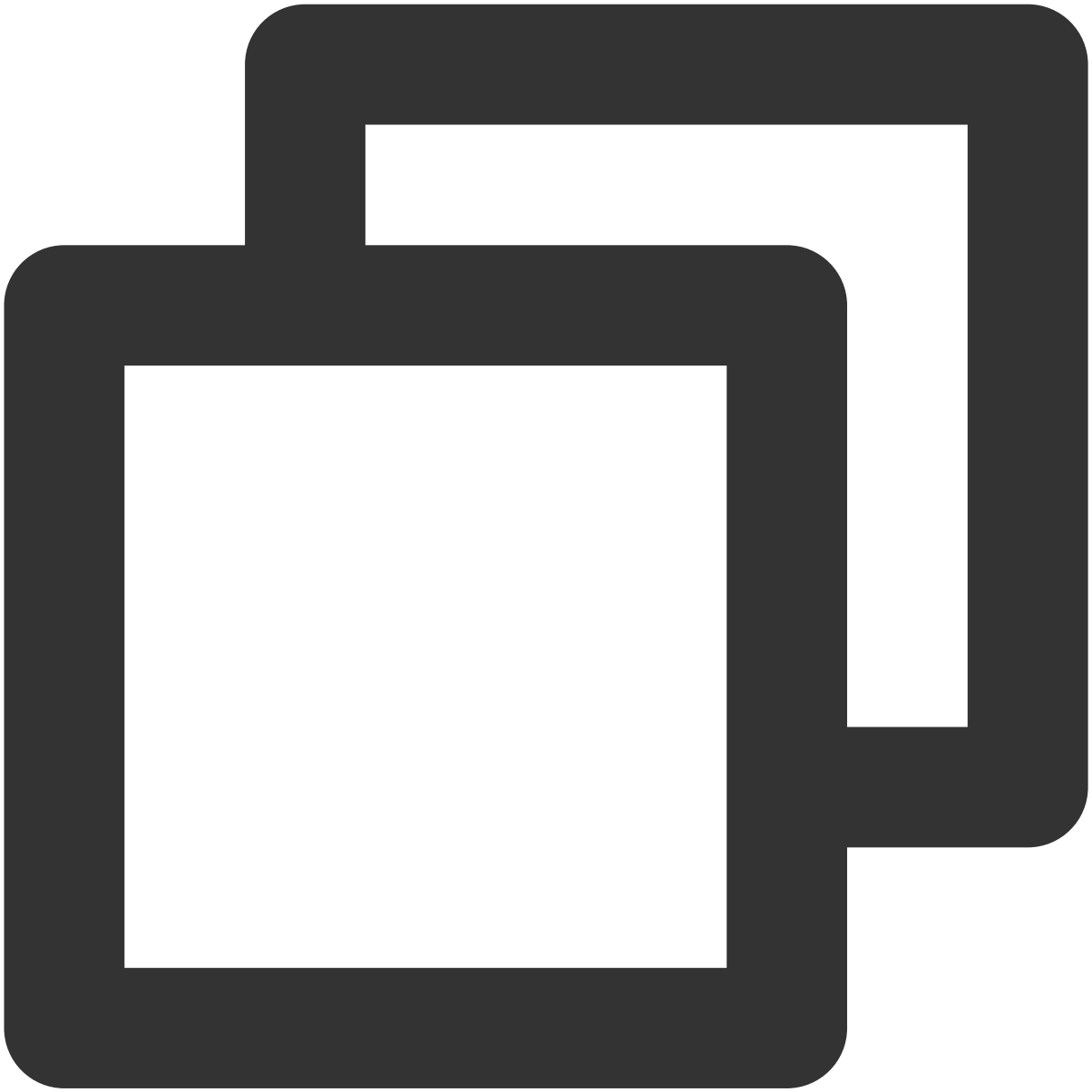

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageInfo
```

Response

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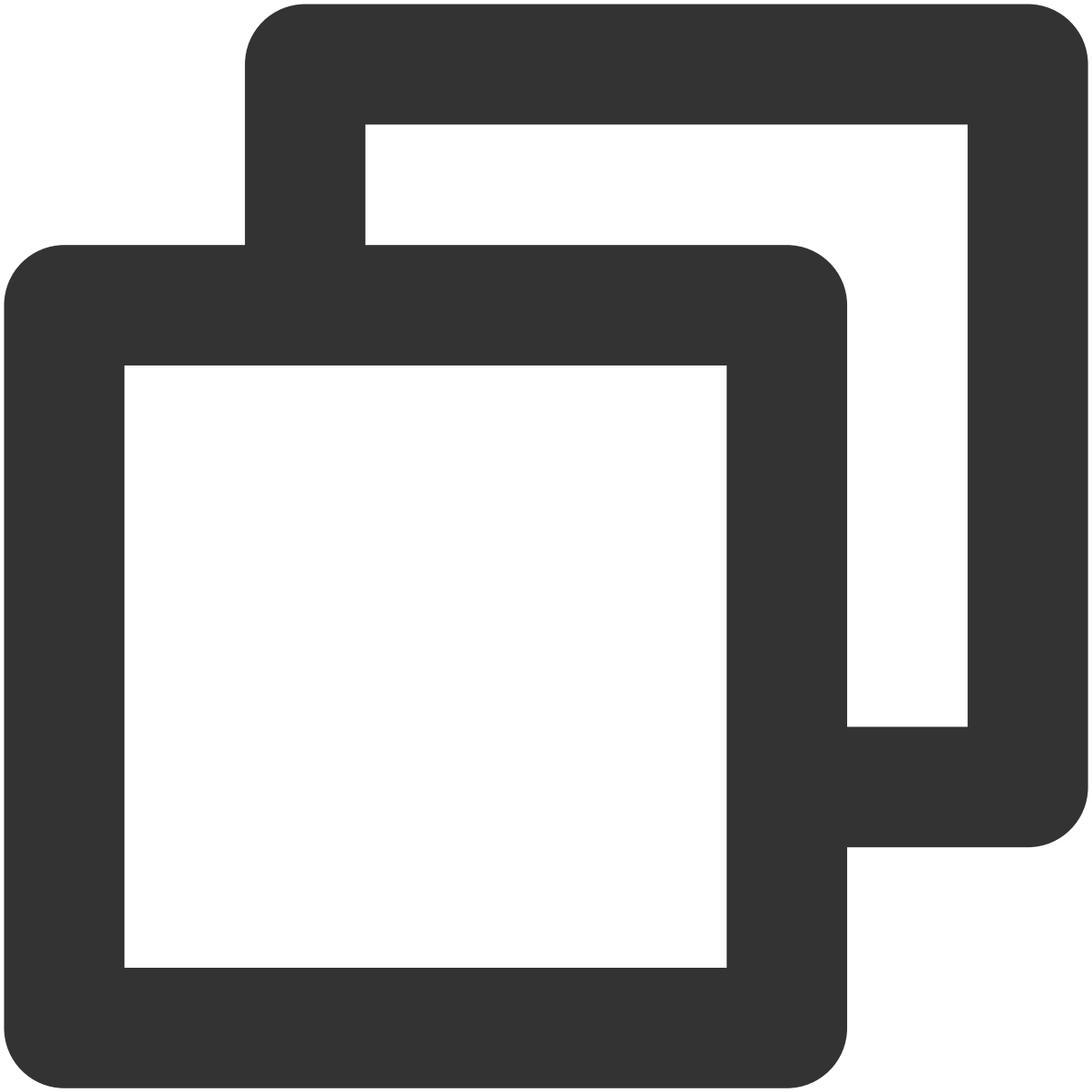


```
{"format": "jpeg", "width": "960", "height": "540", "size": "158421", "md5": "77a16
```


Example 2: private-read with a signature carried

This example obtains the average hue in the same way as in the example above except that a signature is carried. The signature is joined with other parameters using an ampersand (&):

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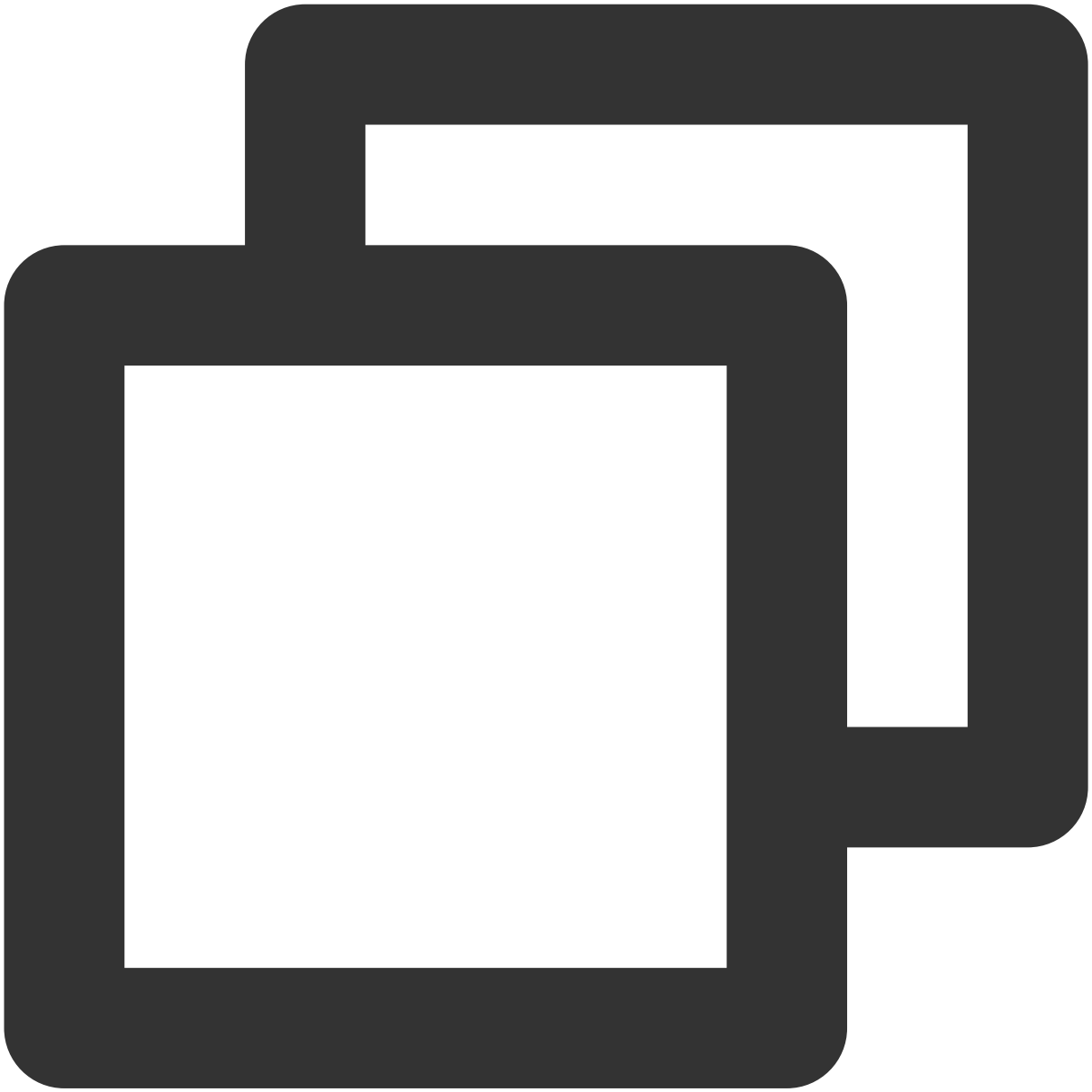

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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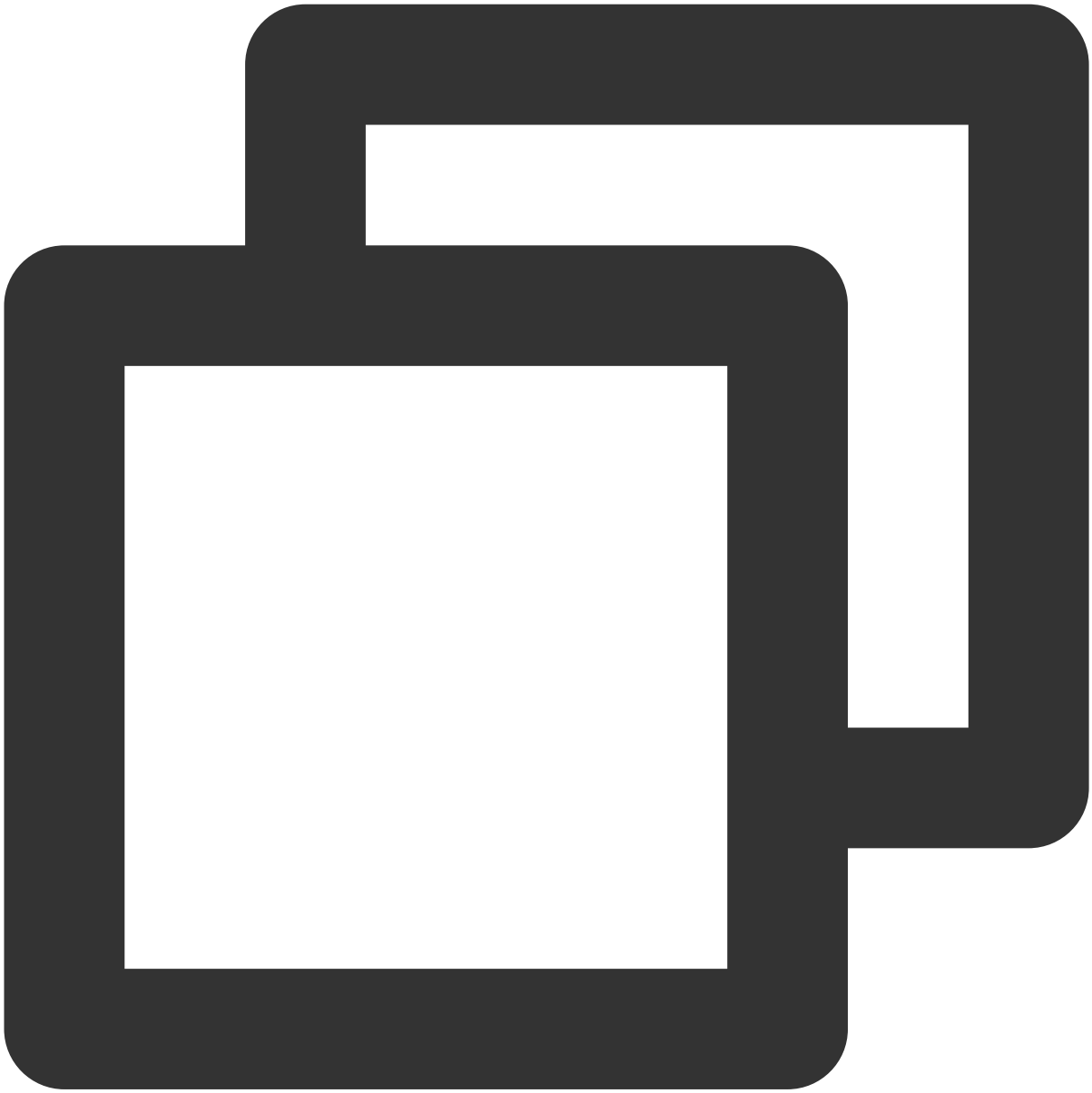
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Getting Image EXIF

Last updated：2024-06-12 15:20:05

Feature Overview

Exchangeable Image File (EXIF) records the camera settings, thumbnails, and other attributes of digital images. COS uses the **exif** API provided by CI to get EXIF data. An input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, its total number of pixels (width x height x number of frames) cannot exceed 250 million.

Note:

Image processing is charged by CI. For detailed pricing, see Image Processing Fees.

If the image does not have EXIF data, `{"error" : "no exif data"}` will be returned.

API Sample

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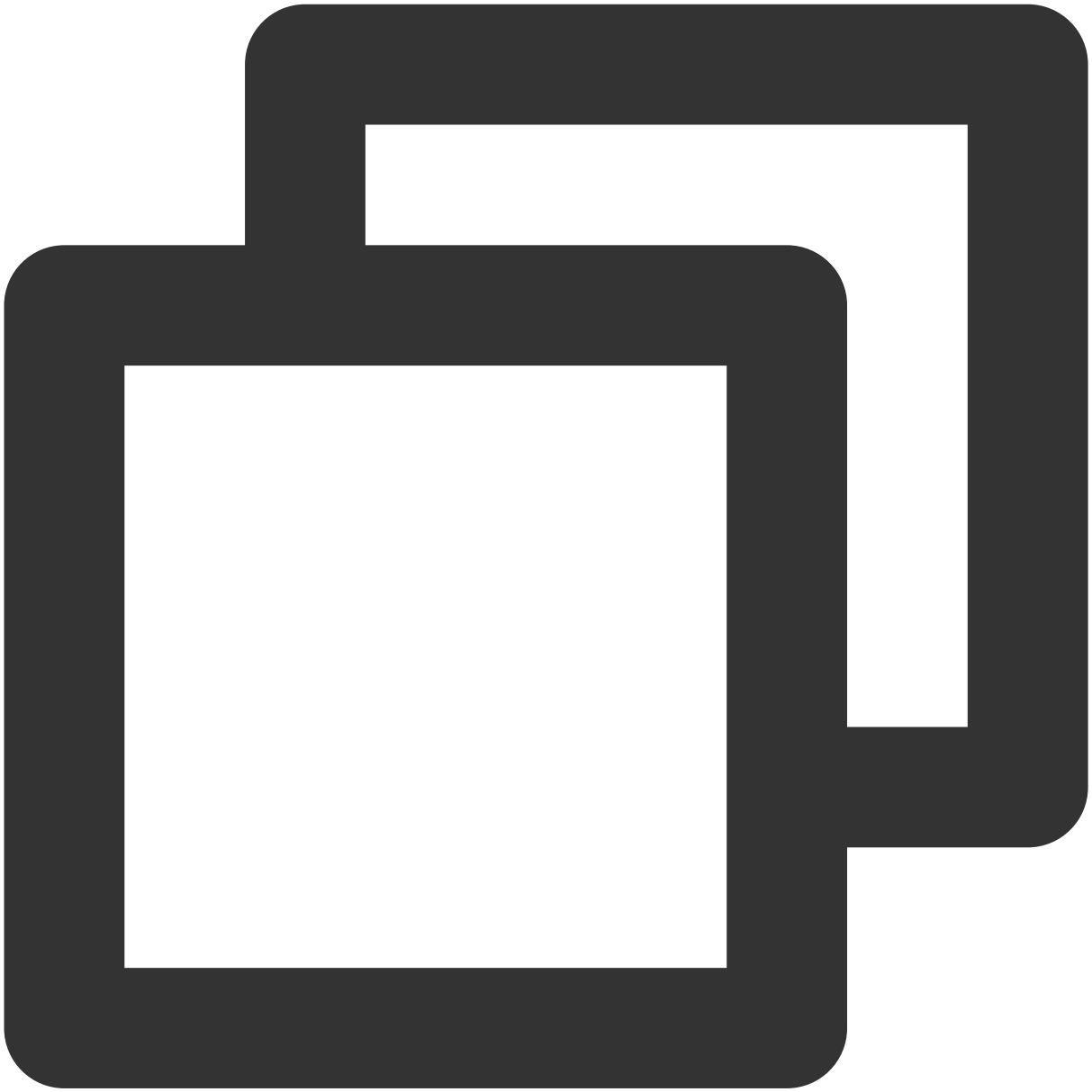

```
GET /<ObjectKey>?exif HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity Details.

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Parameters

Operation name: exif.

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg` .

Samples

Sample 1: Public-read

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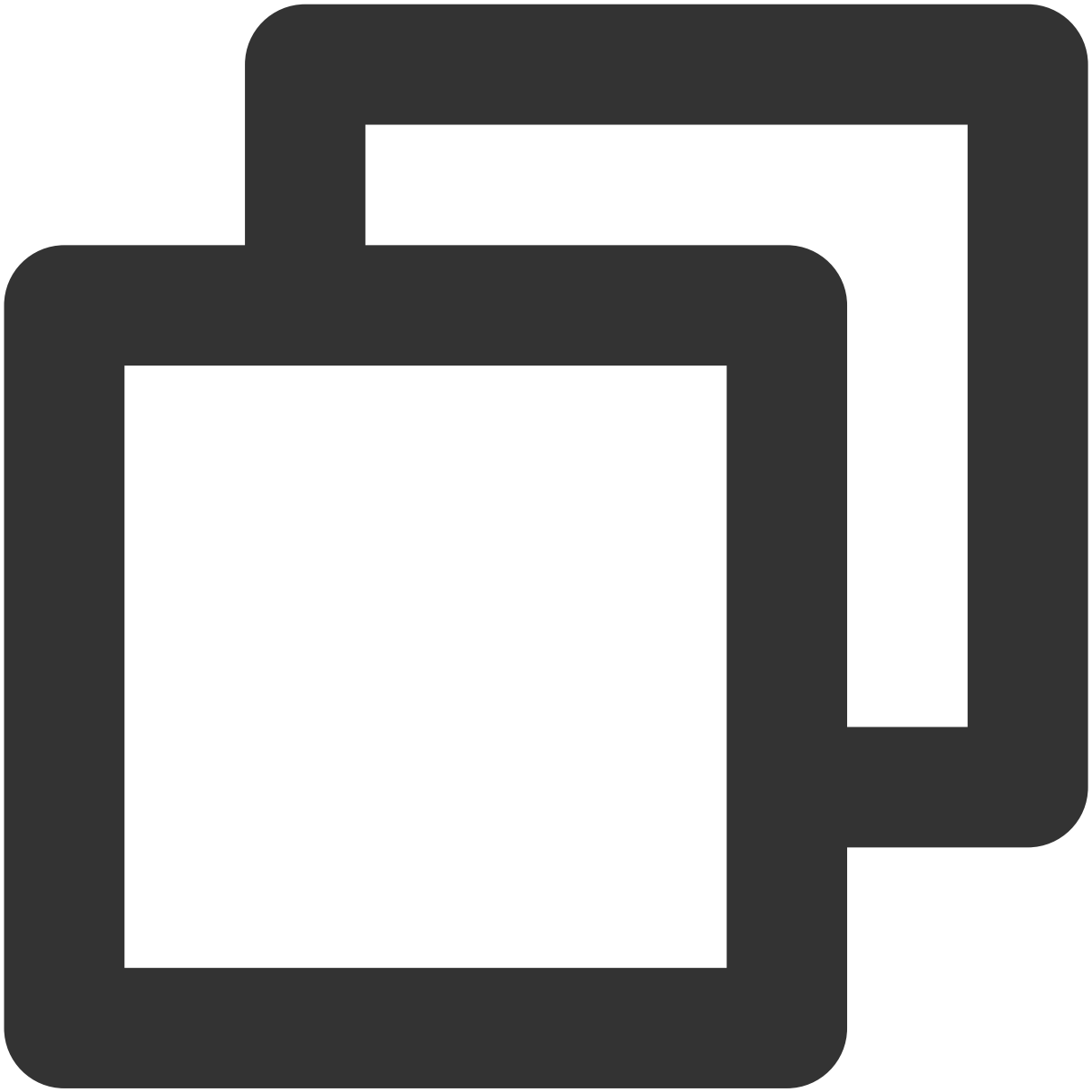

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?exif
```

Sample 2: Private-read with a signature carried

This example processes the image in the same way as in the example above, except that a signature is carried. The signature is concatenated with other parameters by an ampersand (&).

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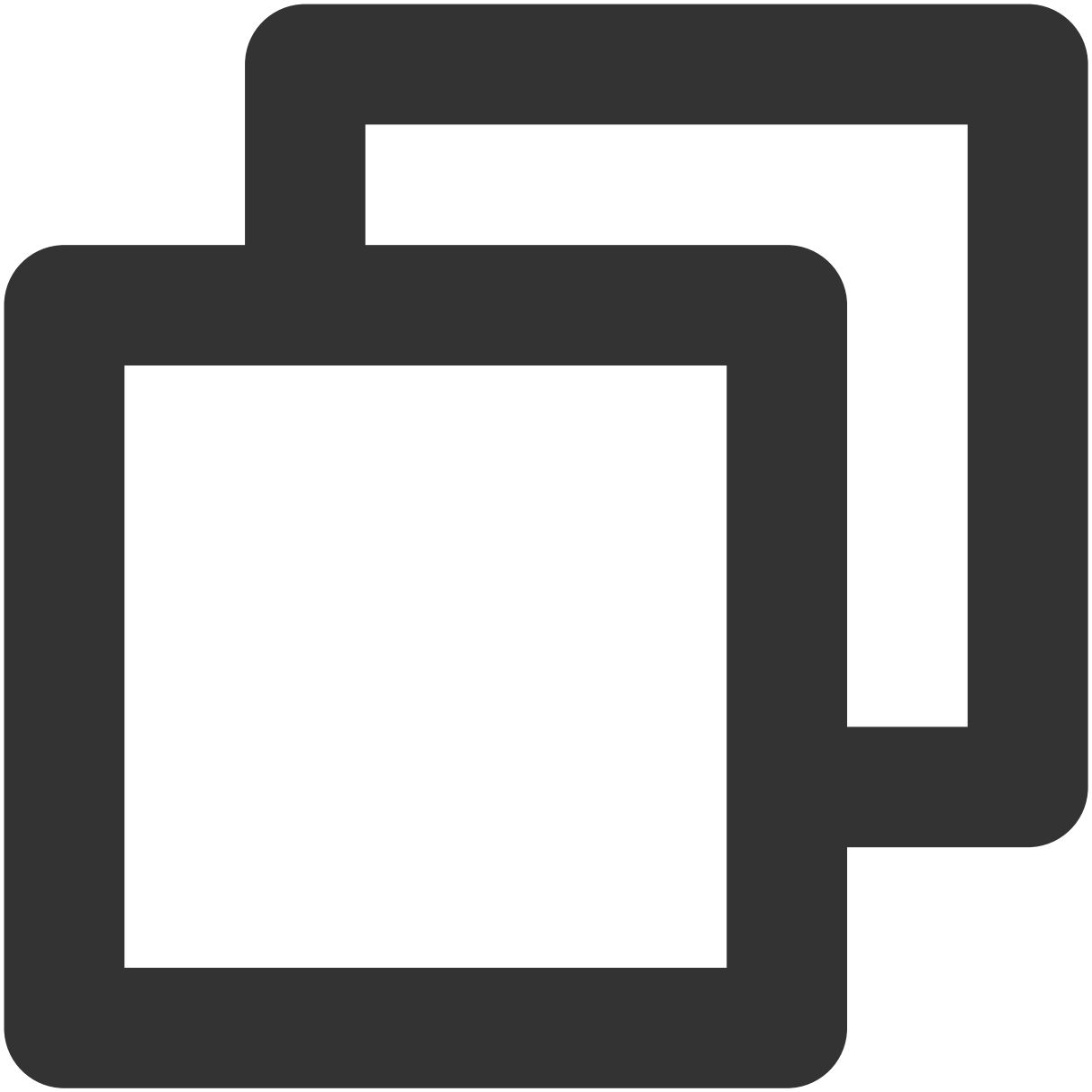

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can get the value of `<signature>` as instructed in Request Signature.

Notes

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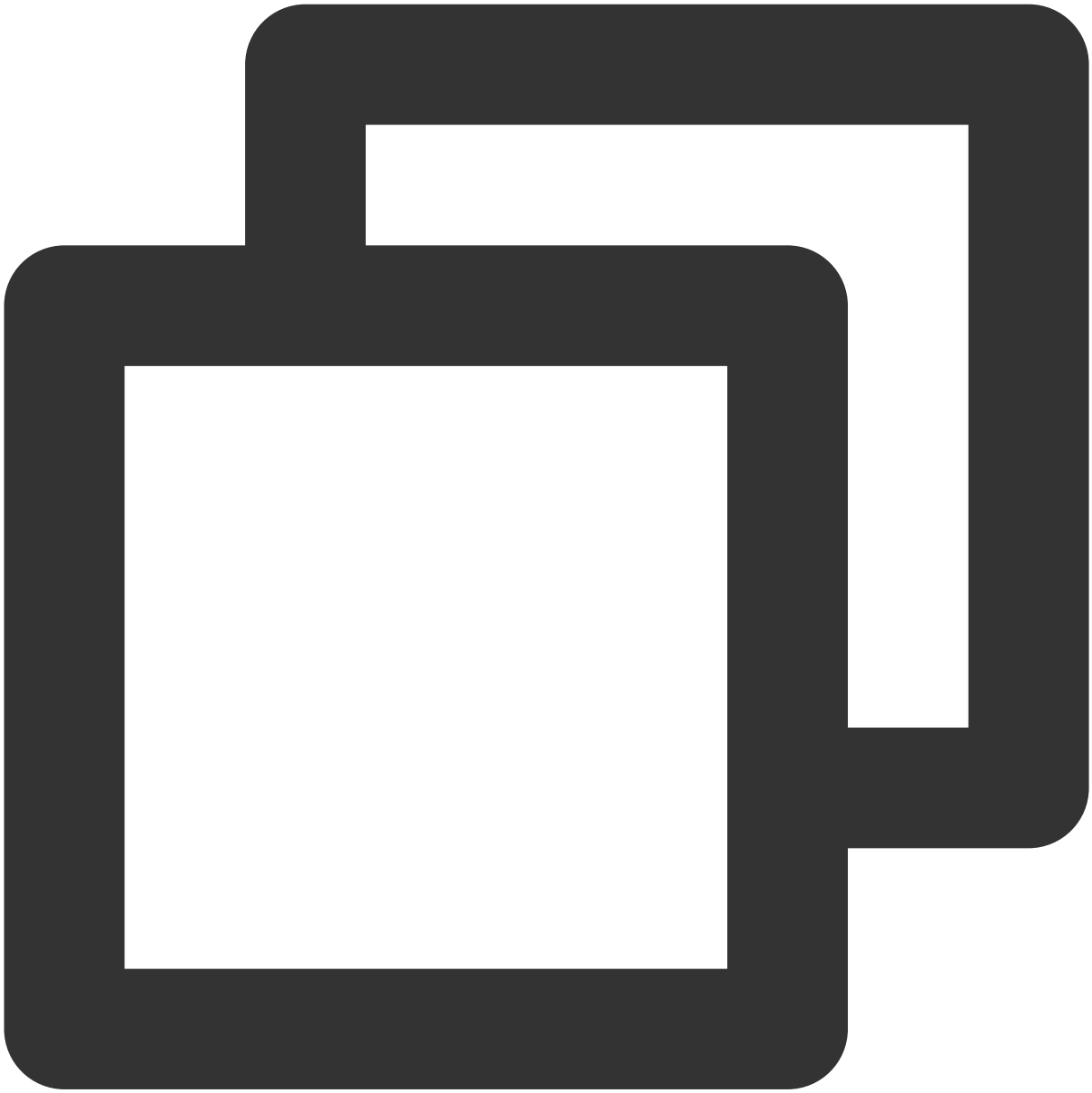
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple sample for your reference (it might have expired or become inaccessible). For more information, see Upload via Pre-Signed URL.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Obtaining Image’s Average Hue

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageAve** API provided by CI to obtain the average hue of an image. The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.

Note:

Image processing is charged by CI. For detailed pricing, please see the image processing prices of CI.

API Format

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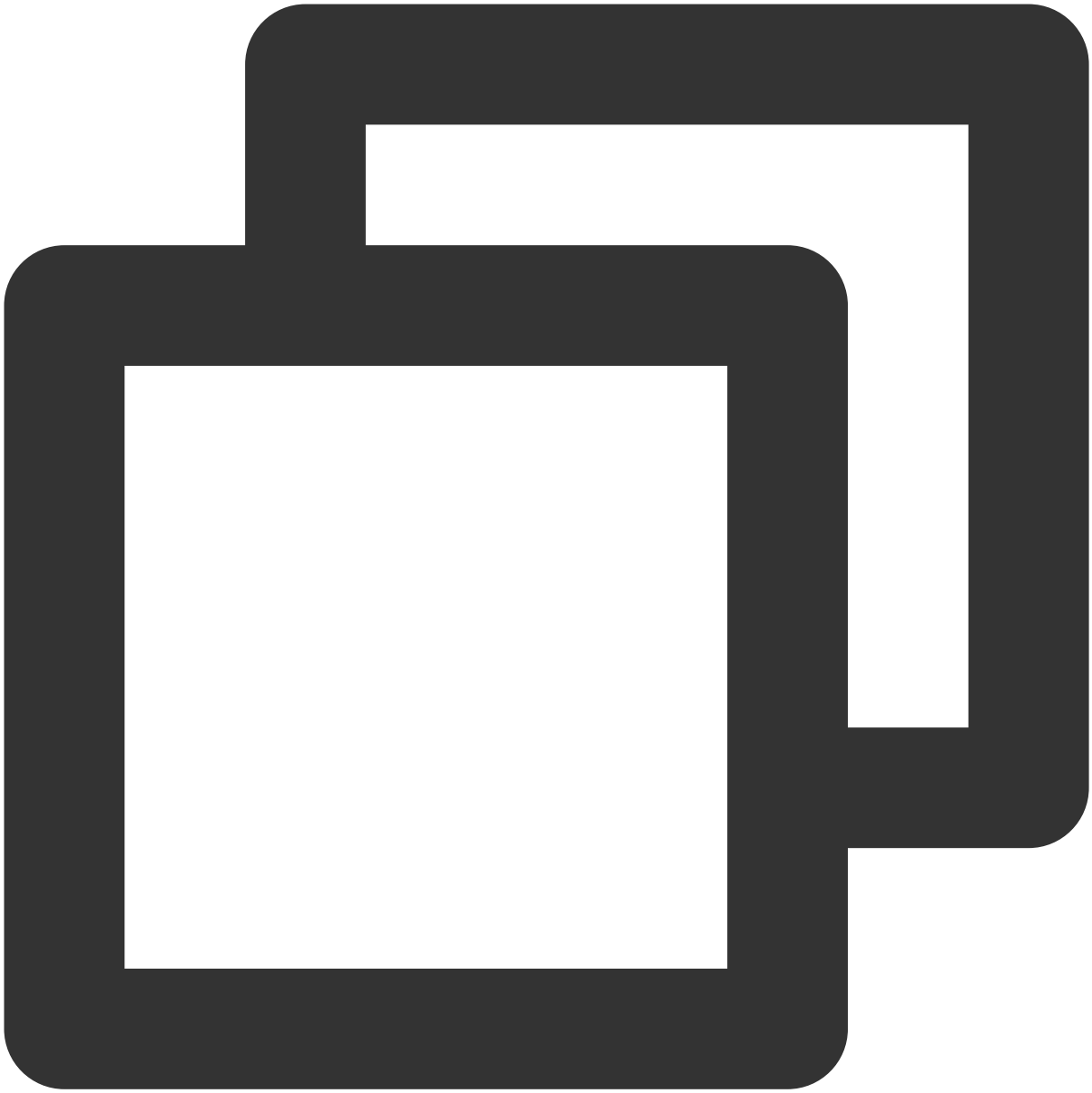

```
download_url?imageAve
```

Parameters

Operation: imageAve

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-`

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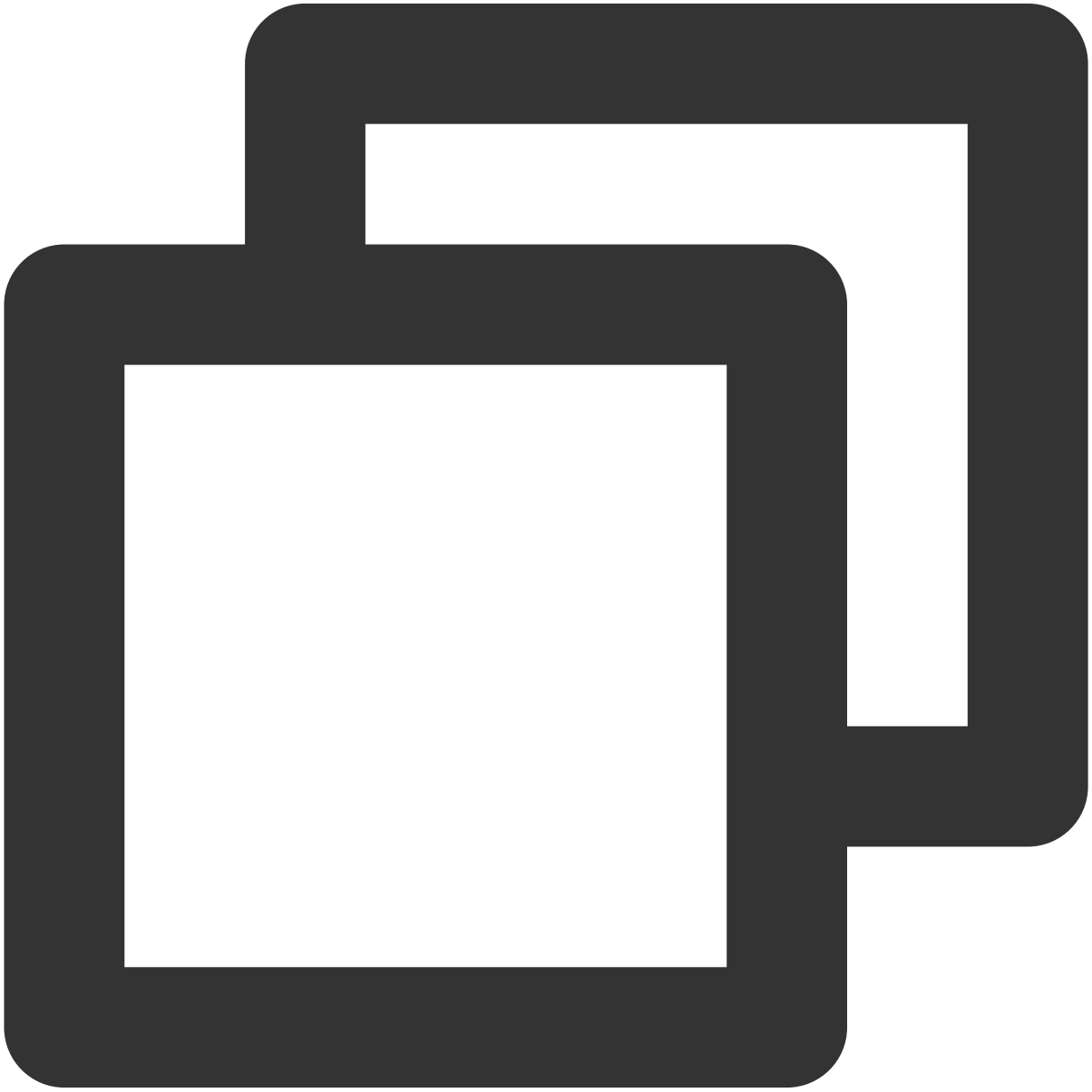
	`APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`

Examples

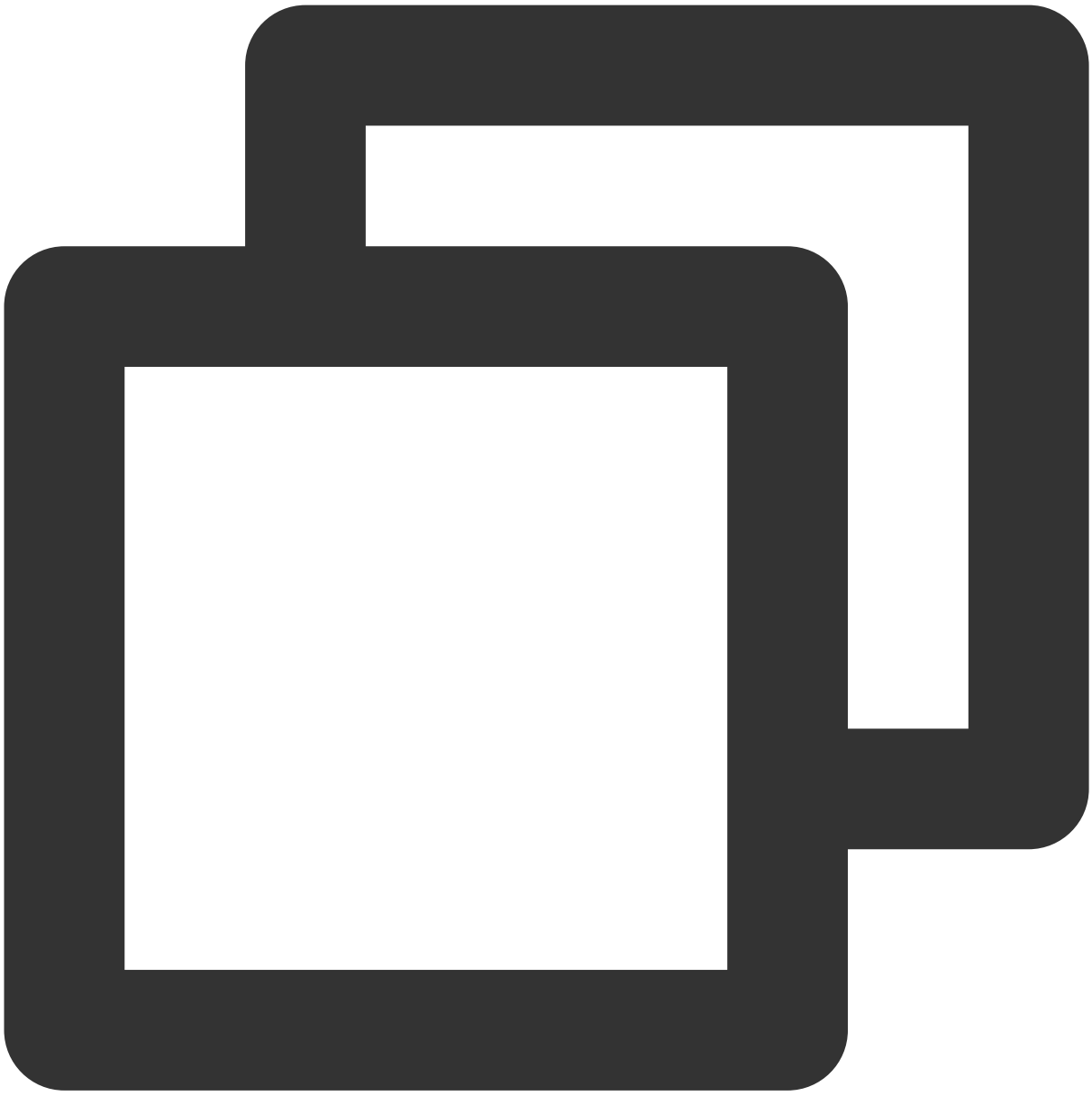
Example 1: public-read

Request



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageAve
```

Response



```
{"RGB": "0x736246"}
```

Example 2: private-read with a signature carried

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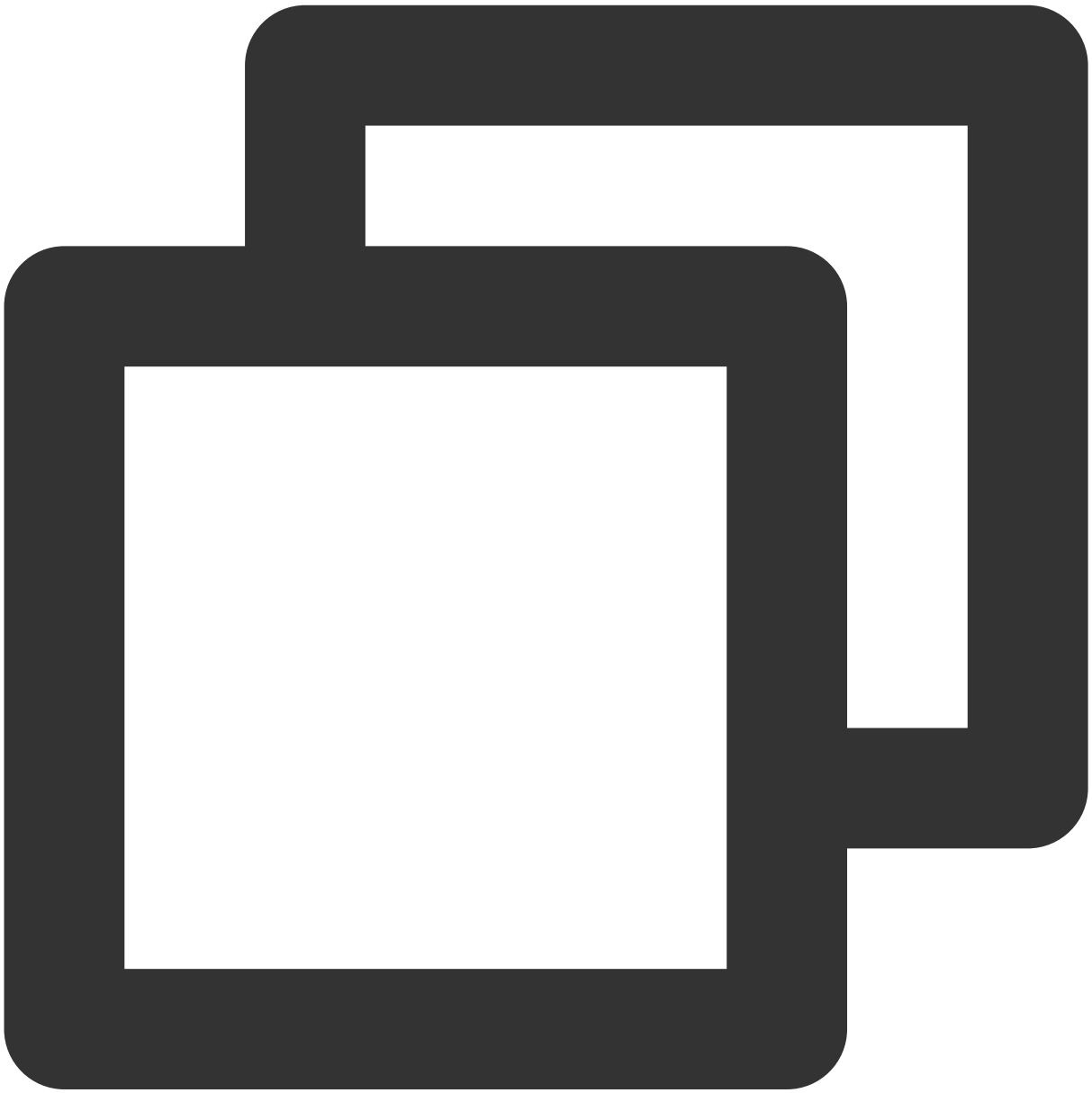
This example obtains the average hue in the same way as in the example above except that a signature is carried. The signature is joined with other parameters using an ampersand (&):



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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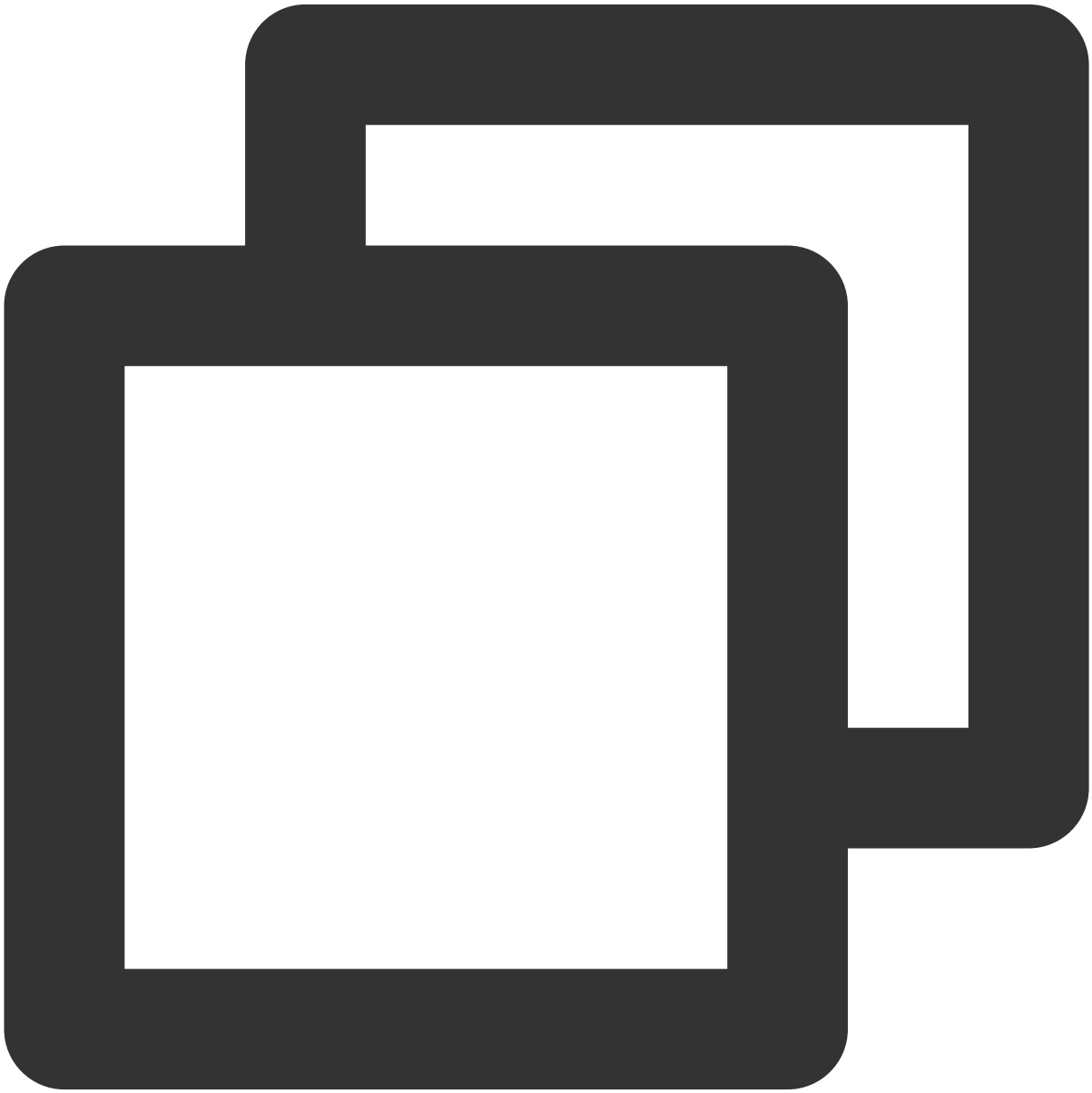
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Metadata Removal

Last updated：2024-06-12 15:20:05

Feature Overview

COS uses the **imageMogr2** API provided by CI to remove image metadata, including EXIF data.
An image can be processed:
Upon download
Upon upload
In cloud
Note:
Image Processing is charged by CI. For detailed pricing, see **Basic image processing fee** in Billing and Pricing.

Restrictions

Format: JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Static image size: The input image cannot be larger than 32 MB. Its dimensions cannot exceed 50,000 pixels and its resolution cannot exceed 250 million pixels. The dimensions of the output image cannot exceed 50,000 pixels.
WebP image size: The input image cannot be larger than 32 MB. Its dimensions cannot exceed 16,383 pixels and its resolution cannot exceed 250 million pixels. The dimensions of the output image cannot exceed 16,383 pixels.
Animated image size: For the input or output image, the total number of pixels (width x height x number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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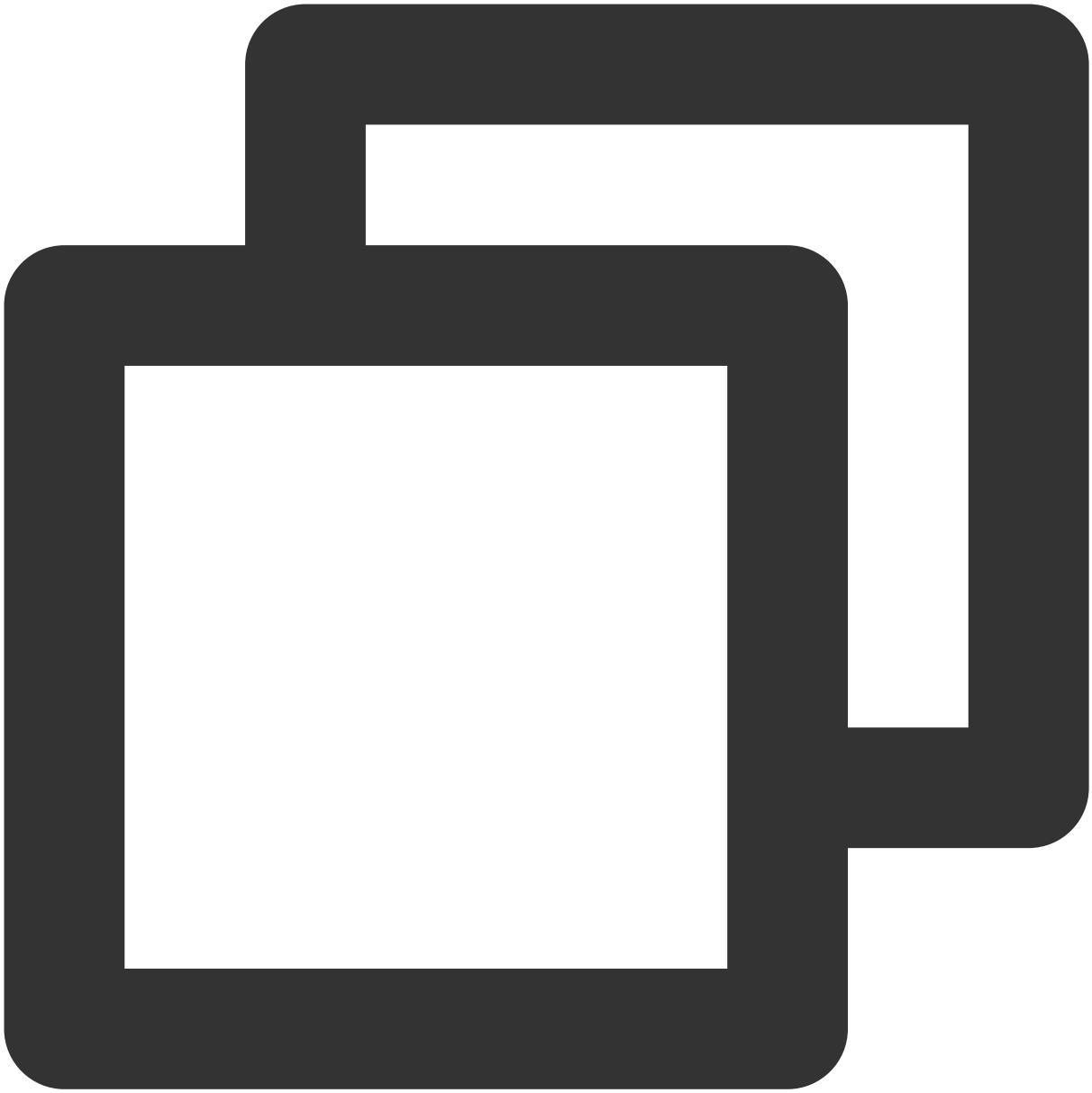

```
GET /<ObjectKey>?imageMogr2/strip HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

2. Processing upon upload

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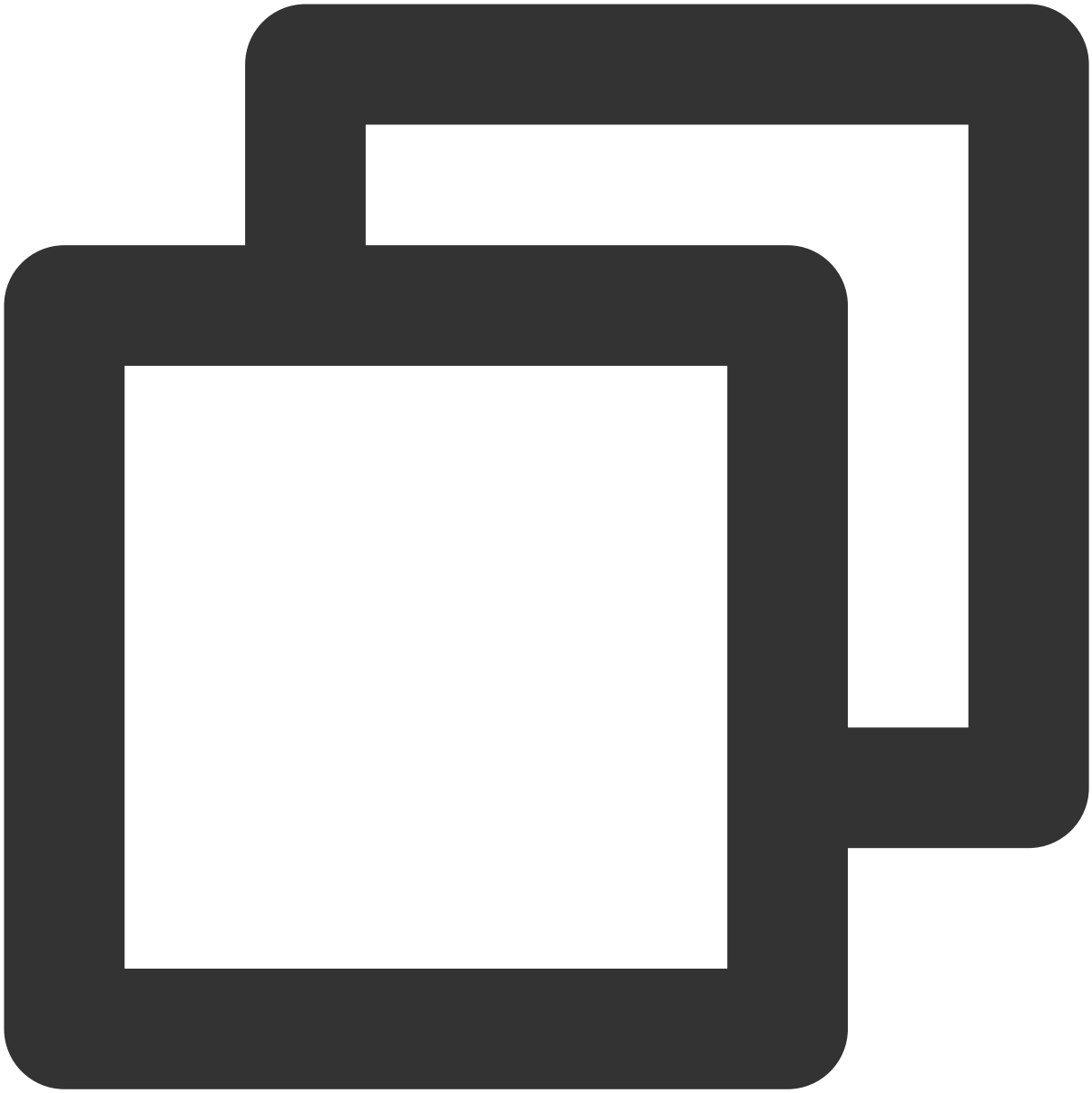

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/strip"
  }]
```

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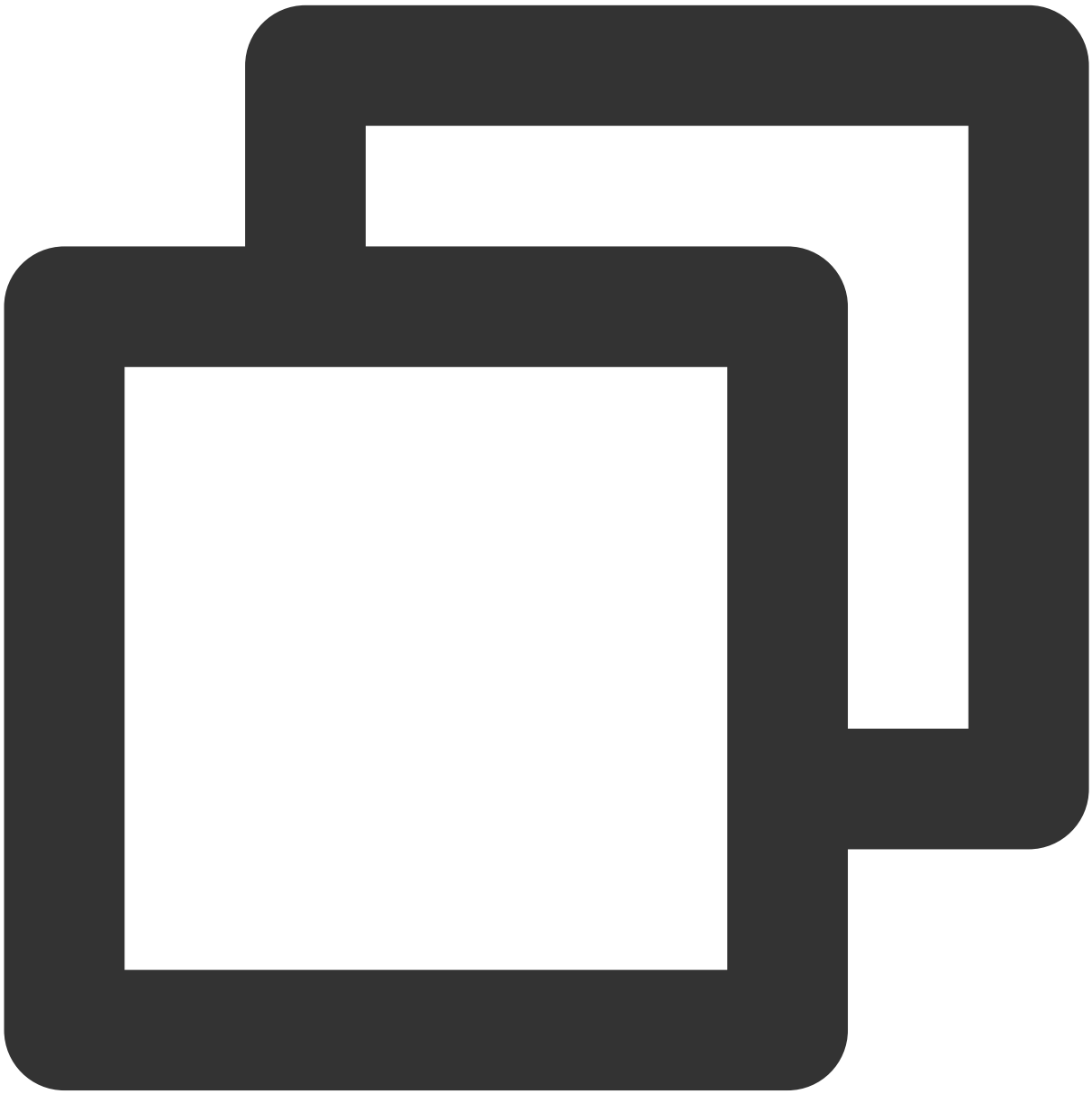
```
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
```

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```
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/strip"
  }]
}
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Parameters

Operation: strip

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg` .
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: Public-read

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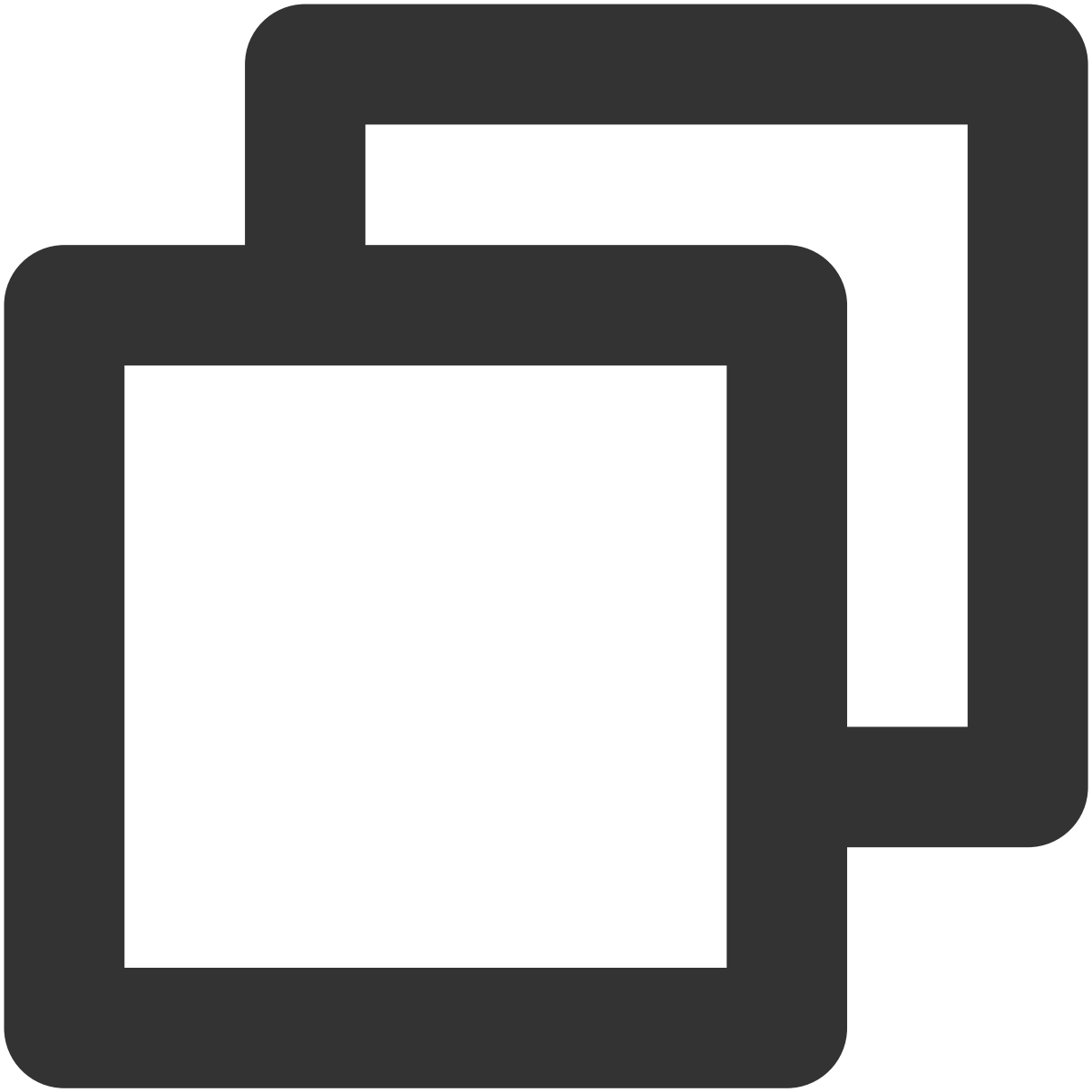

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/stri
```

Example 2: Private-read with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&).

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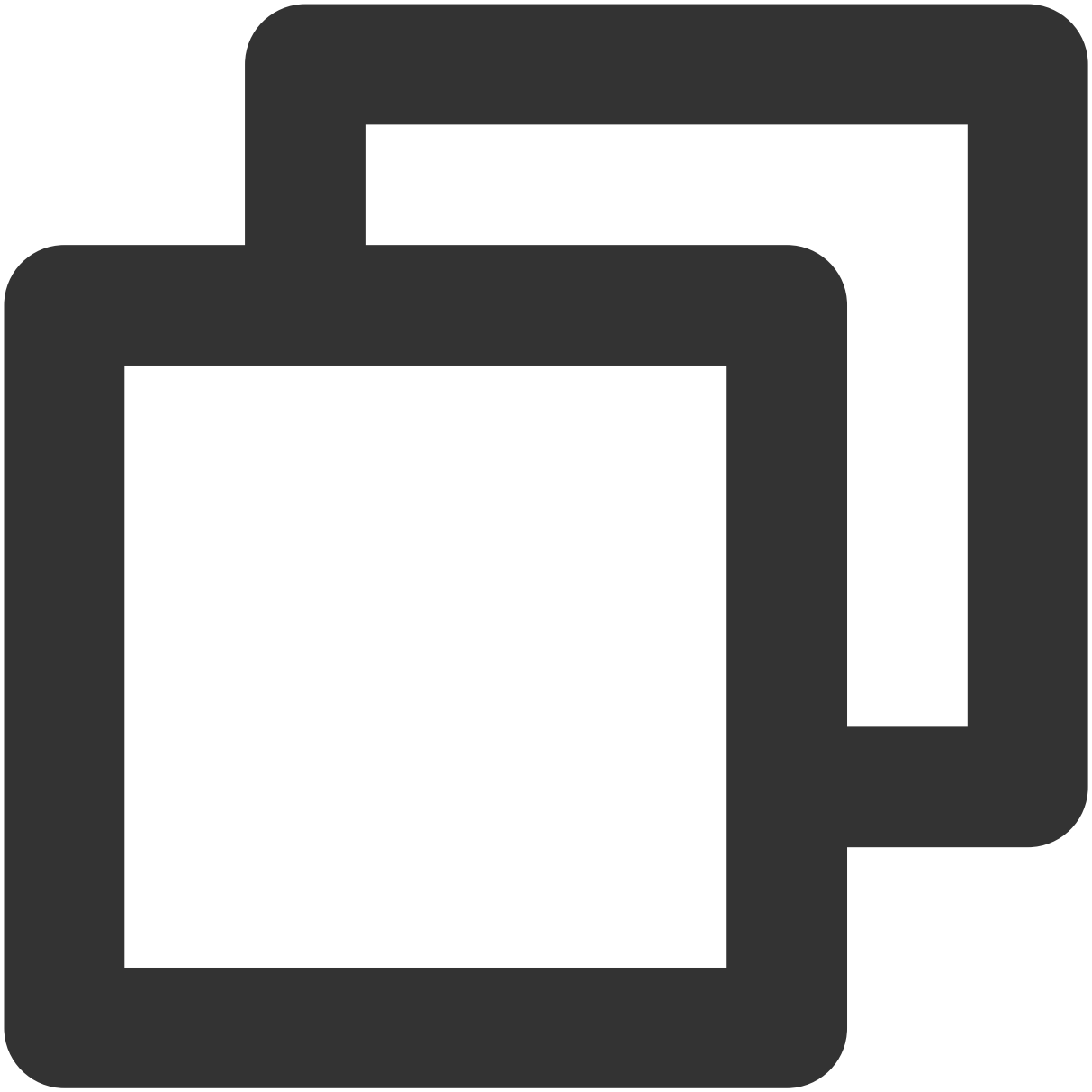

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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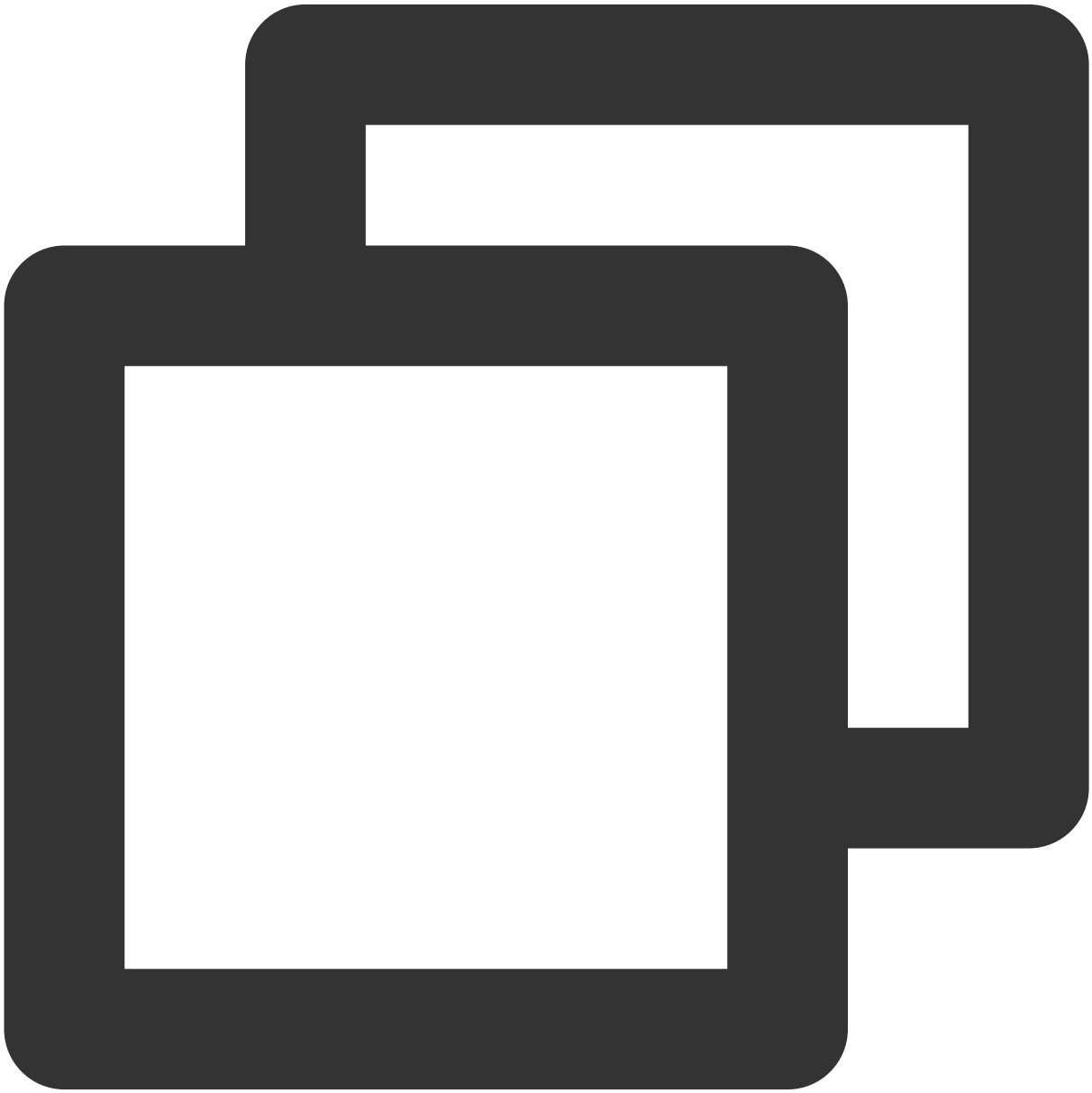
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might not be valid or accessible anymore). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Quick Thumbnail Template

Last updated：2024-06-12 18:02:24

Feature Overview

COS uses the **imageView2** API of CI to provide common image processing templates. You only need to add corresponding parameters to the downloading URL to generate corresponding thumbnails.
An image can be processed:
Upon download
Upon upload
In cloud
Note:
Image Processing is charged by CI. For detailed pricing, see **Basic image processing fee** in Billing and Pricing.

Restrictions

Format: JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Static image size: The input image cannot be larger than 32 MB. Its dimensions cannot exceed 50,000 pixels and its resolution cannot exceed 250 million pixels. The dimensions of the output image cannot exceed 50,000 pixels.
WebP image size: The input image cannot be larger than 32 MB. Its dimensions cannot exceed 16,383 pixels and its resolution cannot exceed 250 million pixels. The dimensions of the output image cannot exceed 16,383 pixels.
Animated image size: For the input or output image, the total number of pixels (width x height x number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

1. Processing upon download

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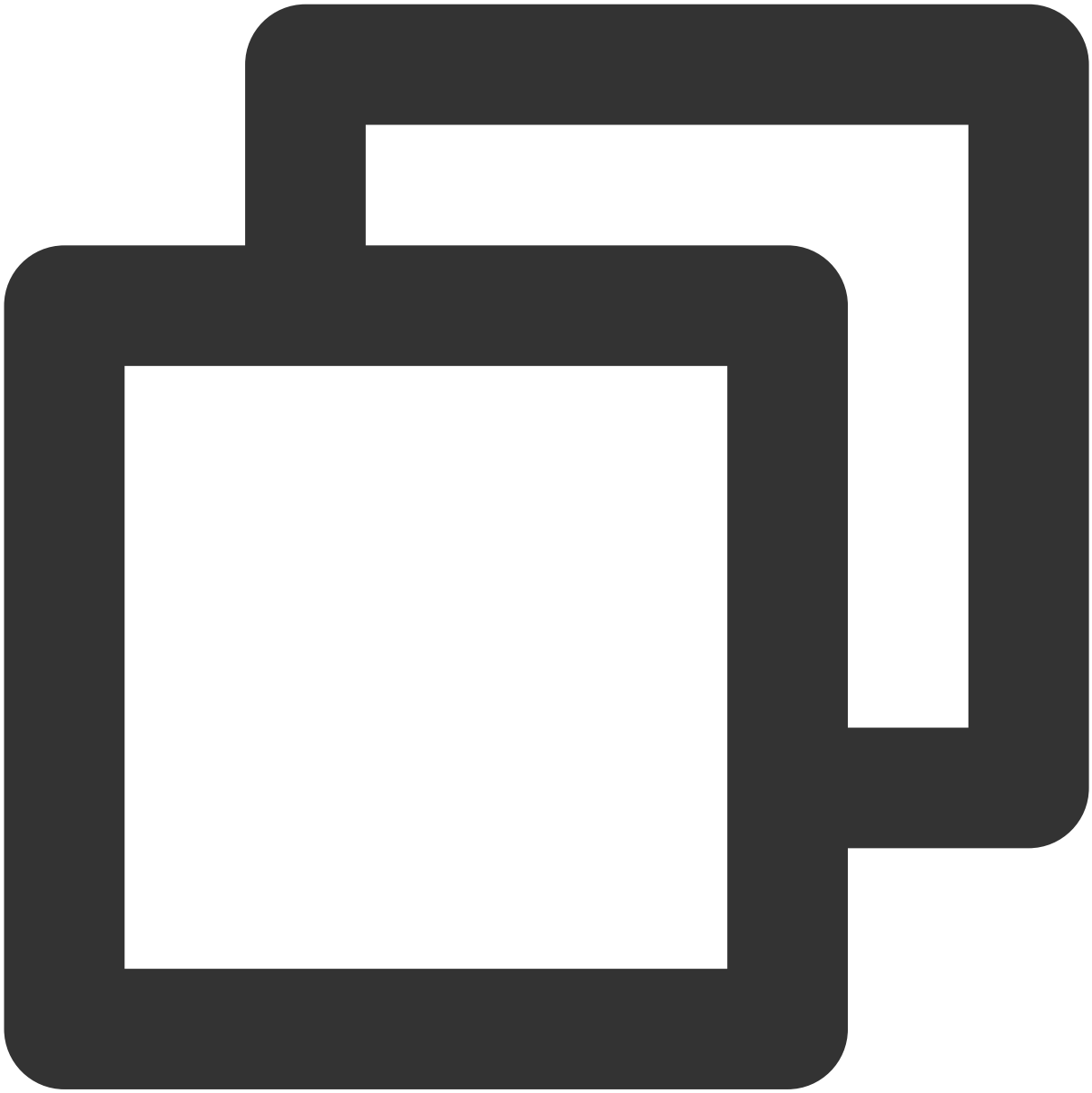

```
GET /<ObjectKey>?imageView2/<mode>/w/<Width>
                /h/<Height>
                /format/<Format>
                /q/<Quality>
                /rq/<Quality>
                /lq/<Quality> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

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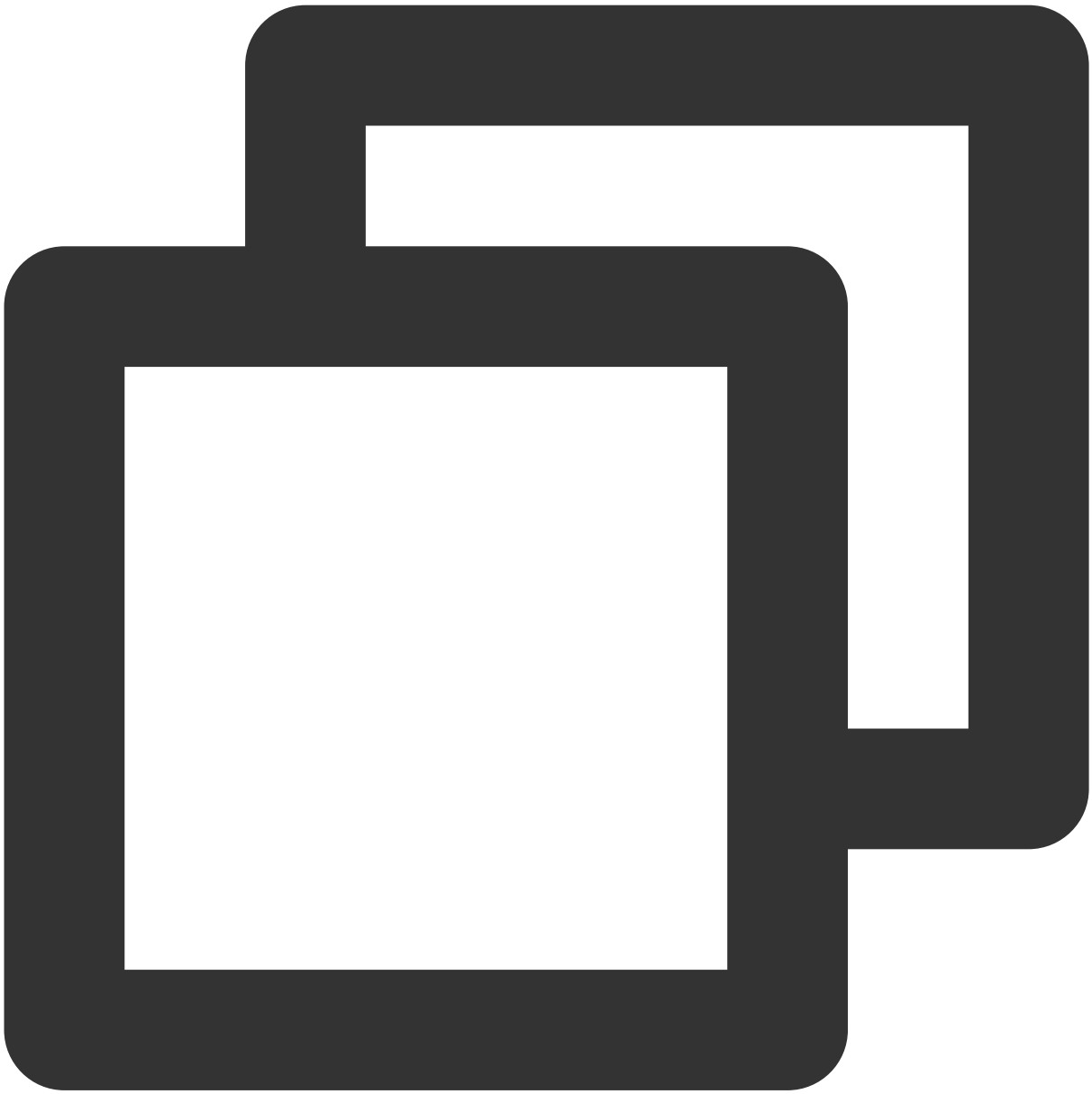
Quality parameters apply only to images in **JPG** and **WebP** formats.

2. Processing upon upload



```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
```

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```
    "rules": [{
        "fileid": "exampleobject",
        "rule": "imageView2/<mode>/w/<Width>
                  /h/<Height>
                  /format/<Format>
                  /q/<Quality>
                  /rq/<Quality>
                  /lq/<Quality>"
    }]
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data

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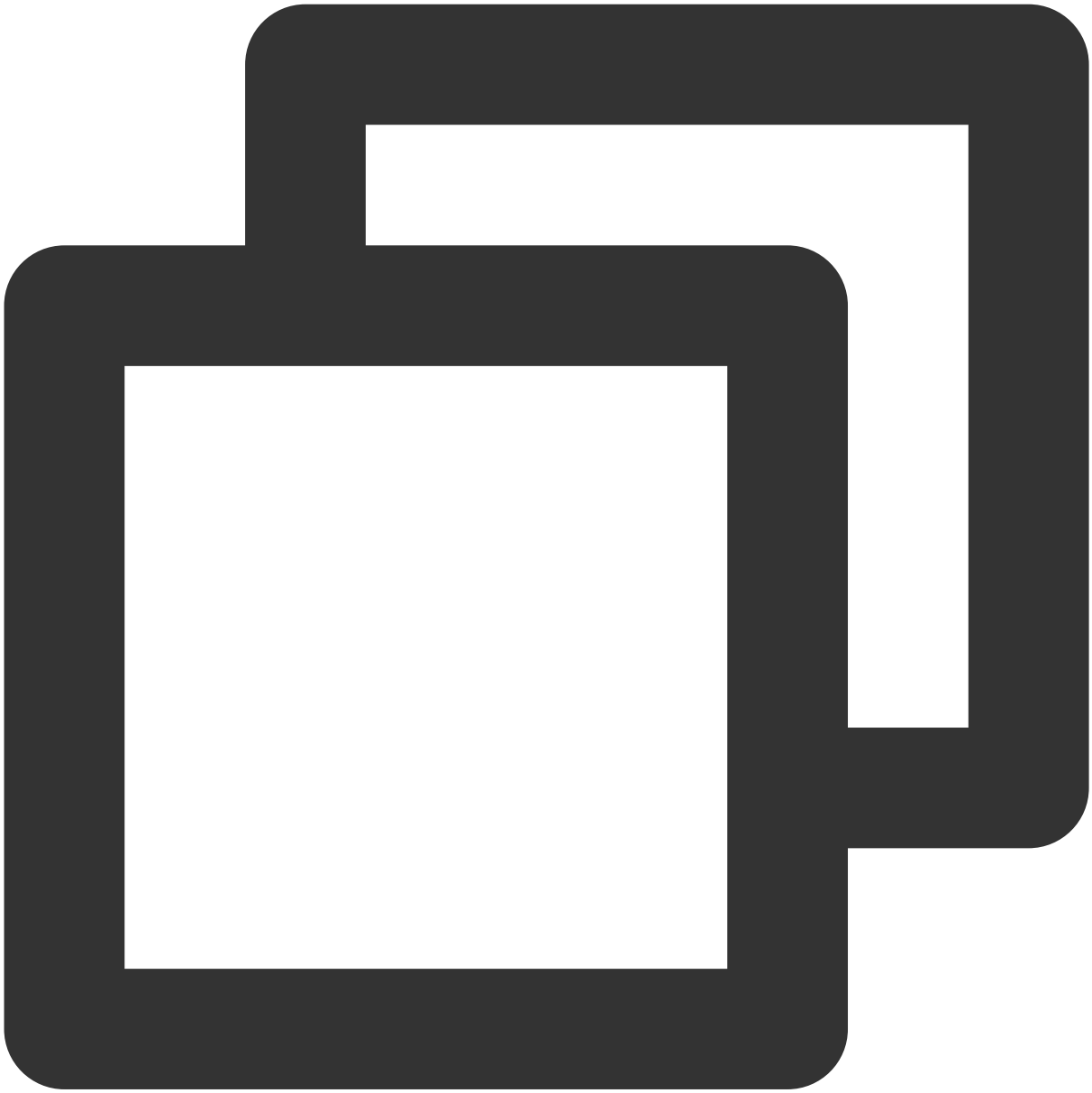

```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageView2/<mode>/w/<Width>
```

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```
                    /h/<Height>
                    /format/<Format>
                    /q/<Quality>
                    /rq/<Quality>
                    /lq/<Quality>"
    }]
}
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Parameters

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg`.
/1/w/<Width>/h/<Height>	Mode 1: specifies the minimum width and height of the thumbnail. In this mode, the image is first scaled down until one of the minimum values set is reached. Then, the image will be centered and evenly cropped on both sides to meet the specified values. If only one value is set, a square thumbnail will be generated. For example, if the input image size is 1000 x 500 and this parameter is set to `?imageView2/1/w/500/h/400`, the image will be scaled down to 800 x 400 first. Then, 150 pixels will be cropped from the left and right sides respectively, outputting a 500 x 400 thumbnail.
/2/w/<Width>/h/<Height>	Mode 2: specifies the maximum width and height of the thumbnail. In this mode, the image is scaled down until both the width and length are not greater than the maximum values set. For example, if the input image size is 1000 x 500 and this parameter is set to `?imageView2/2/w/500/h/400`, the image is scaled down to 500 x 250. If only one value is set, the image will be adapted.
/3/w/<Width>/h/<Height>	Mode 3: specifies the minimum width and height of the thumbnail. In this mode, the image is scaled down until both the width and height are not smaller than the minimum values set. For example, if the input image size is 1000 x 500 and this parameter is set to `?imageView2/3/w/500/h/400`, the image is scaled down to 800 x 400. If only one value is set, a square thumbnail will be generated.

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/4/w/<LongEdge>/h/<ShortEdge>	Mode 4: specifies the minimum values of the long edge and short edge of the thumbnail to scale down the image. If only one value is set, a square thumbnail will be generated.
/5/w/<LongEdge>/h/<ShortEdge>	Mode 5: specifies the maximum values of the long edge and short edge of the thumbnail to scale down the image. The image will be then centered and cropped. If only one value is set, a square thumbnail will be generated. After the scaling, the excess will be cropped.
/format/<Format>	Format of the thumbnail, which can be JPG, BMP, GIF, PNG, or WebP. Default value: format of the input image
/q/<Quality>	Image quality. Value range: 0–100. Default value: quality of the input image. The smaller value between the input image quality and the specified quality will be used. If there is an exclamation mark (!) after `<Quality>` , the specified quality will be used.
/rq/<quality>	Relative quality of the image, relative to that of the input image. Value range: 0–100. For example, if the input image quality is 80 and `rquality` is set to `80` , the quality of the output image is 64 (that is, 80 x 80%).
/lq/<quality>	Minimum quality of the image. Value range: 0–100. If the input image quality is 85 and `lquality` is set to `80` , the quality of the output image is 85. If the input image quality is 60 and `lquality` is set to `80` , the quality of the output image will be improved to 80.

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Example 1: Using mode 1

The following example uses mode 1, and sets the minimum width and height of the thumbnail to 400x600, and the absolute quality to 85:

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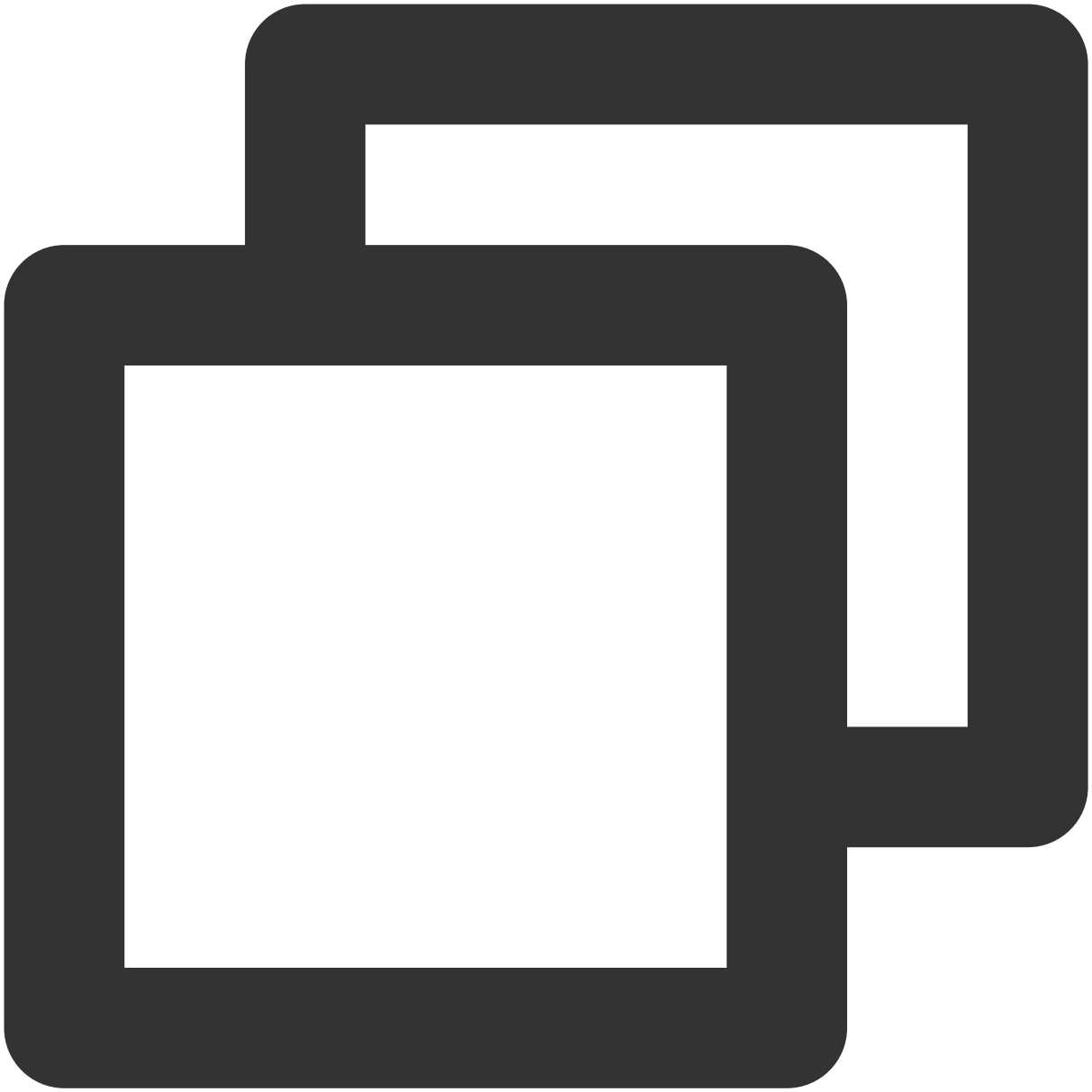

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageView2/1/w/
```

Generated thumbnail:

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Example 2: Using mode 1 with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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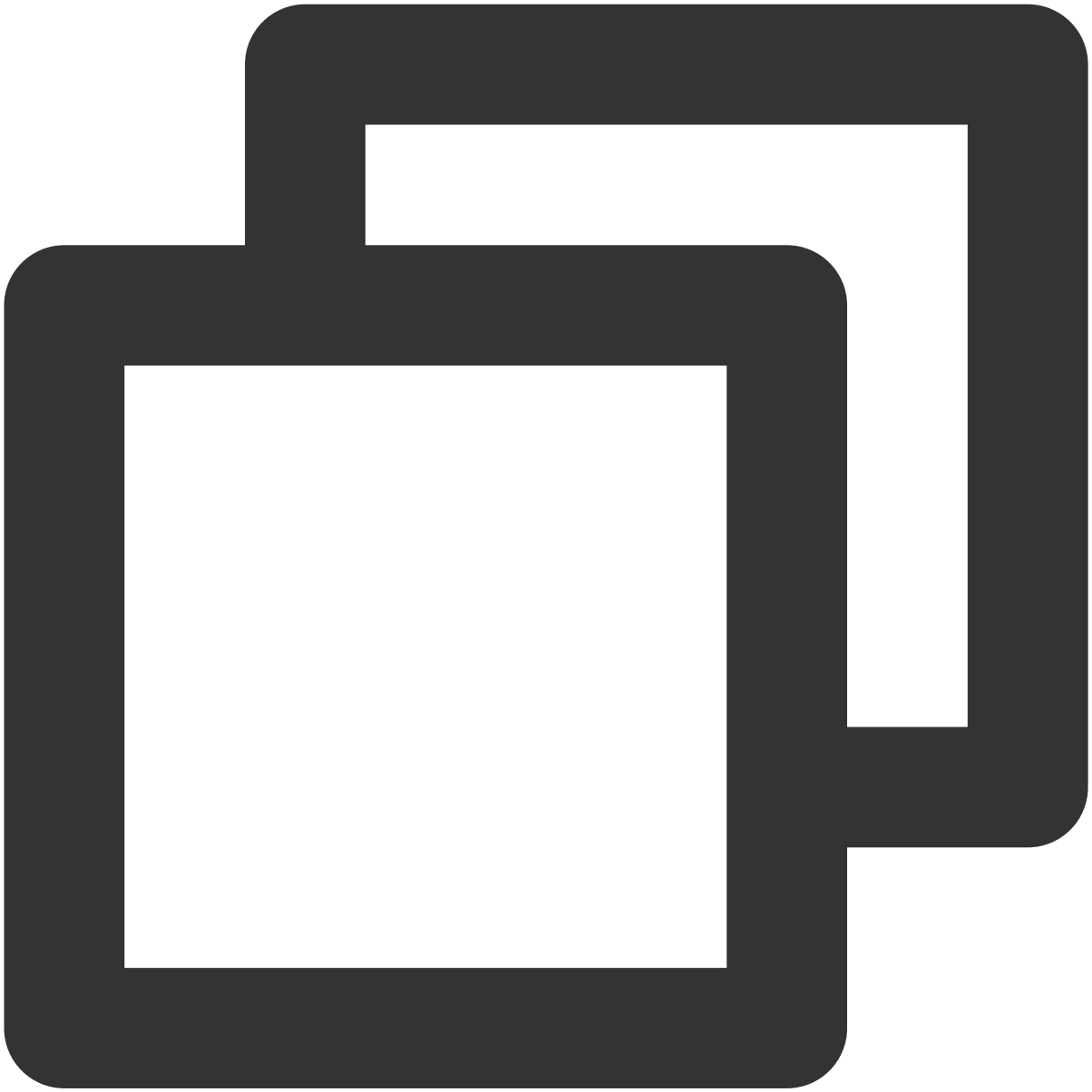

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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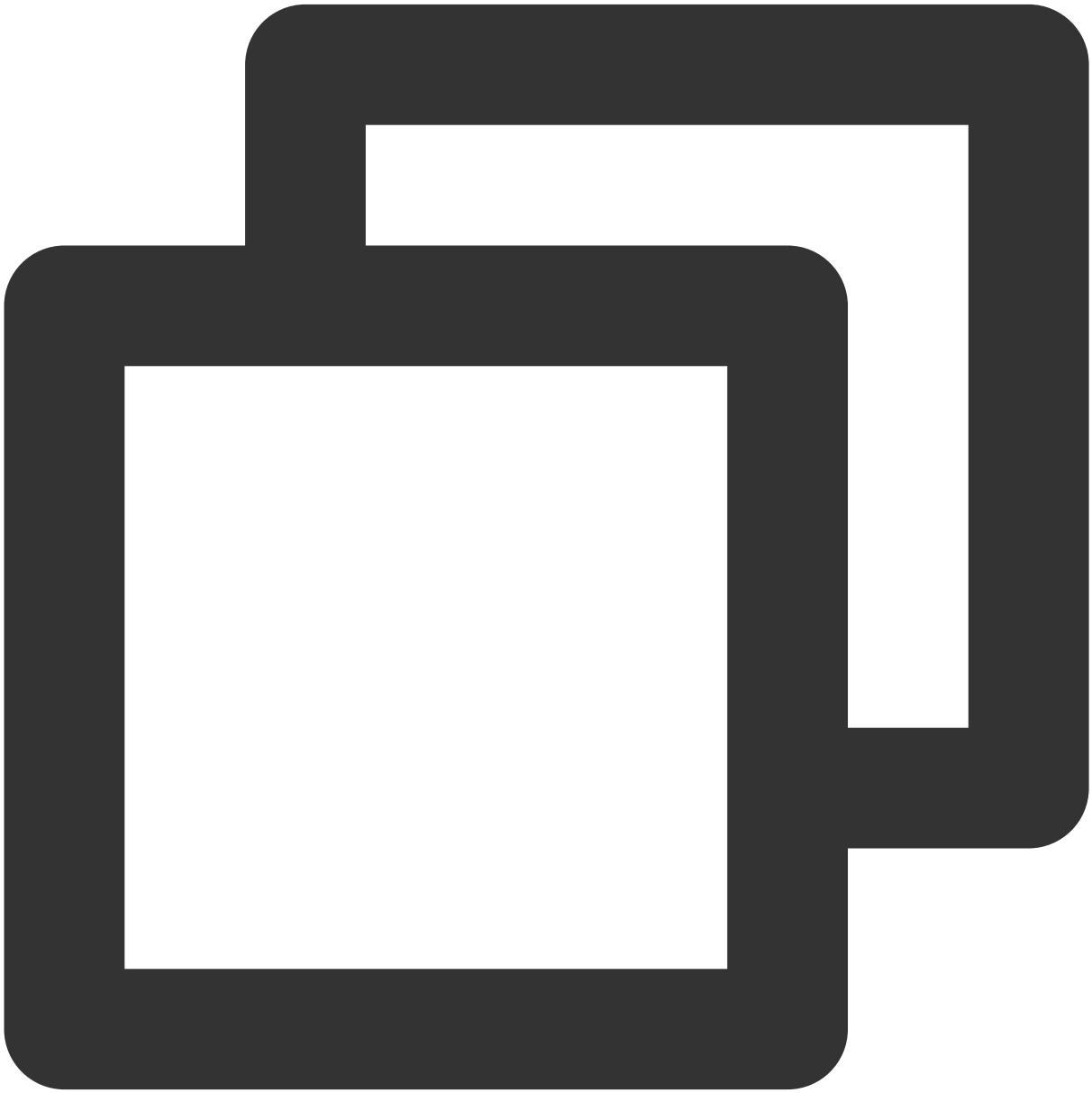
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might not be valid or accessible anymore). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Limiting Output Image Size

Last updated：2024-06-12 15:20:05

Overview

COS uses the **imageMogr2/size-limit** API provided by CI to limit the size of an image processed (e.g., scaled or compressed).

Restrictions

Format: Currently, JPG, BMP, GIF, PNG, and WebP images can be processed, and HEIF images can be decoded and processed.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

API Format

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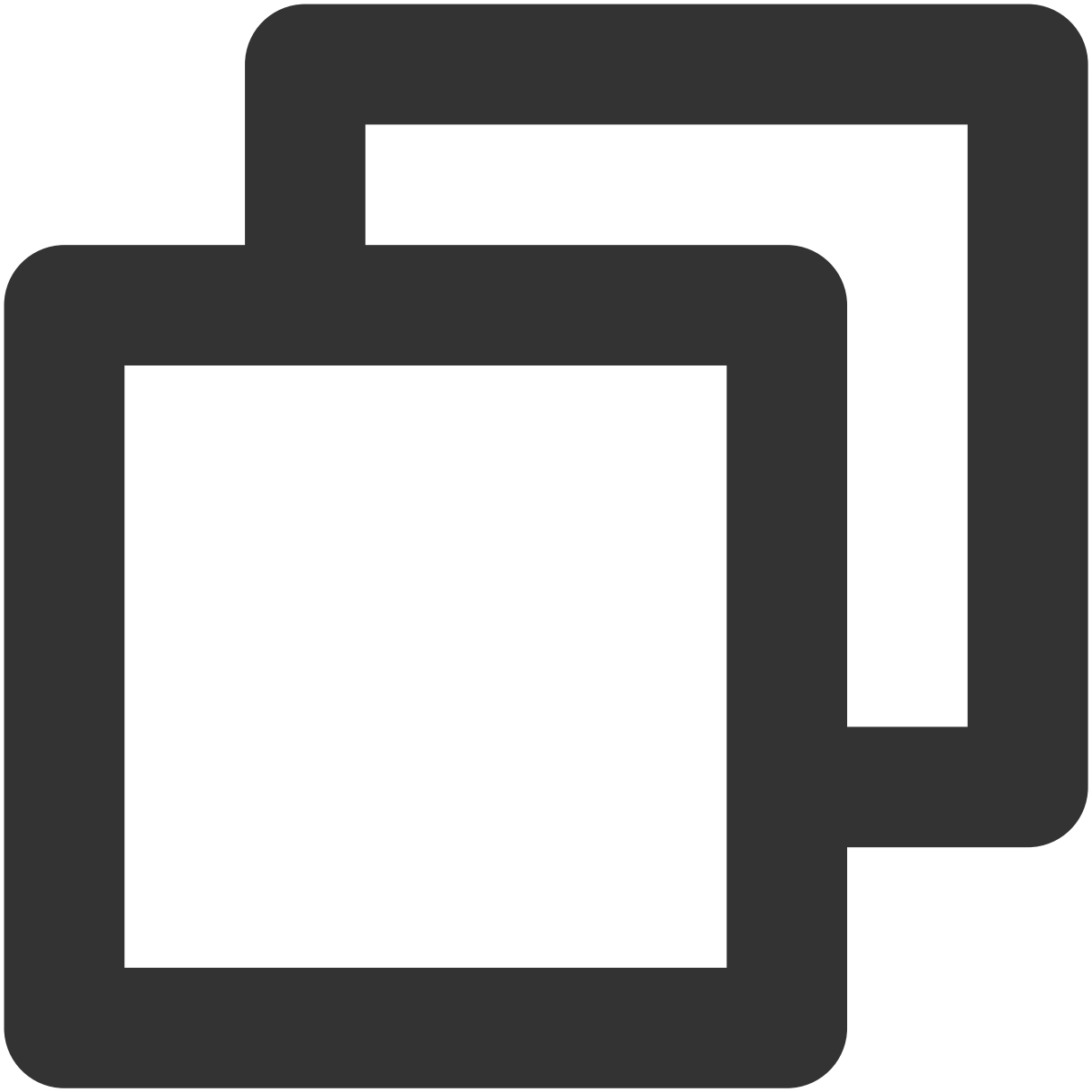

```
download_url?imageMogr2/size-limit
```

Parameters

Operation: size-limit

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-`

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	`APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
size-limit	Limits the size of an output image. The unit can be `k` (KB) or `m` (MB). Only JPG images are supported. Appending an exclamation mark (!) means to compare the sizes of the input and output images. If the output image is smaller than the input image, the output image will be returned. Otherwise, the input image will be returned. Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpg?imageMogr2/size-limit/15k!` You are advised to use this parameter together with strip to remove redundant image metadata. Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpg?imageMogr2/strip/format/png/size-limit/15k!`
/ignore-error/1	If this parameter is carried and the image failed to be processed because it is too large, the input image will be returned with no error reported.

Examples

Example 1: converting image format and limiting the output image size

This example converts a JPG image into PNG format and limits the output image size to 15 KB:

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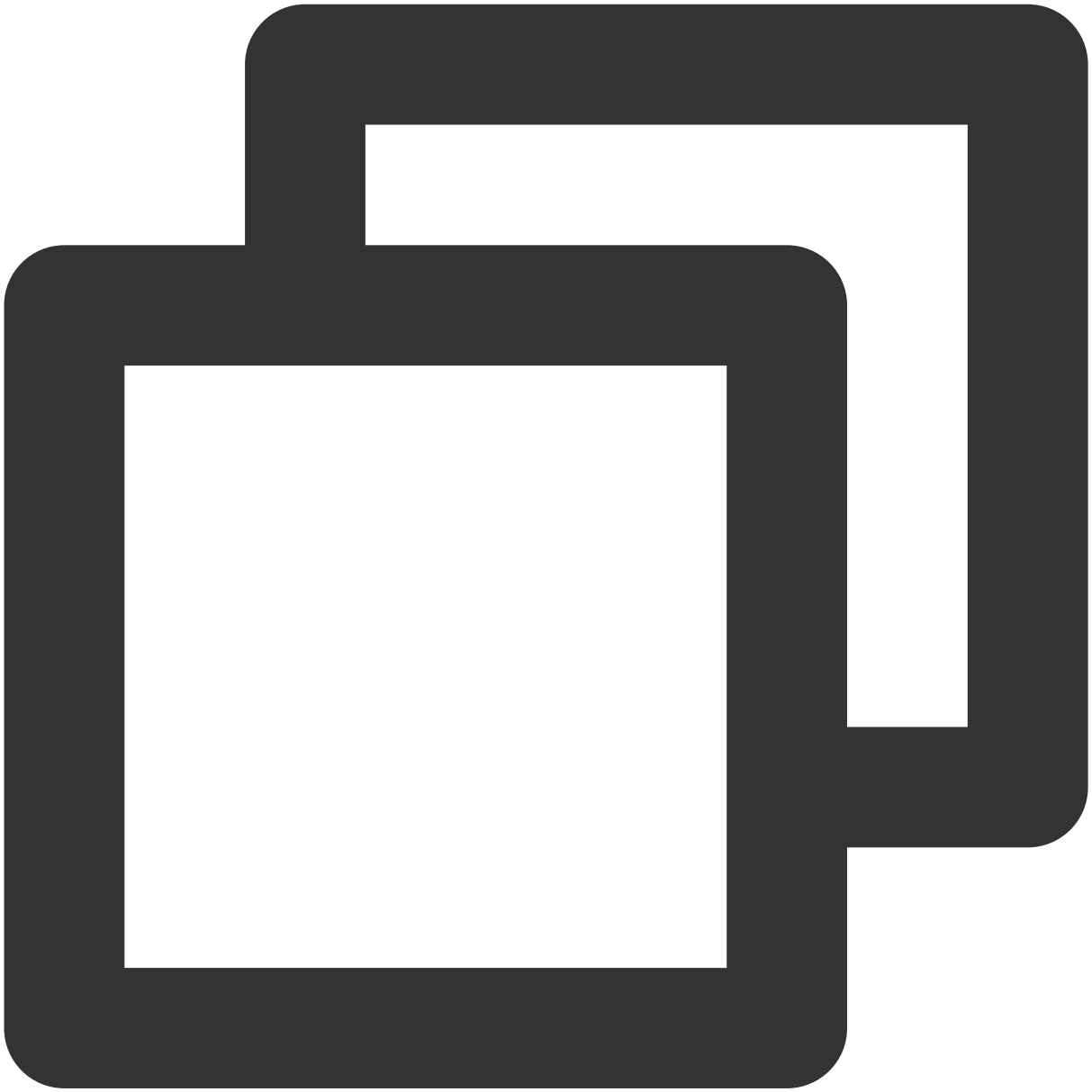

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/stri
```

Example 2: converting image format and limiting the output image size with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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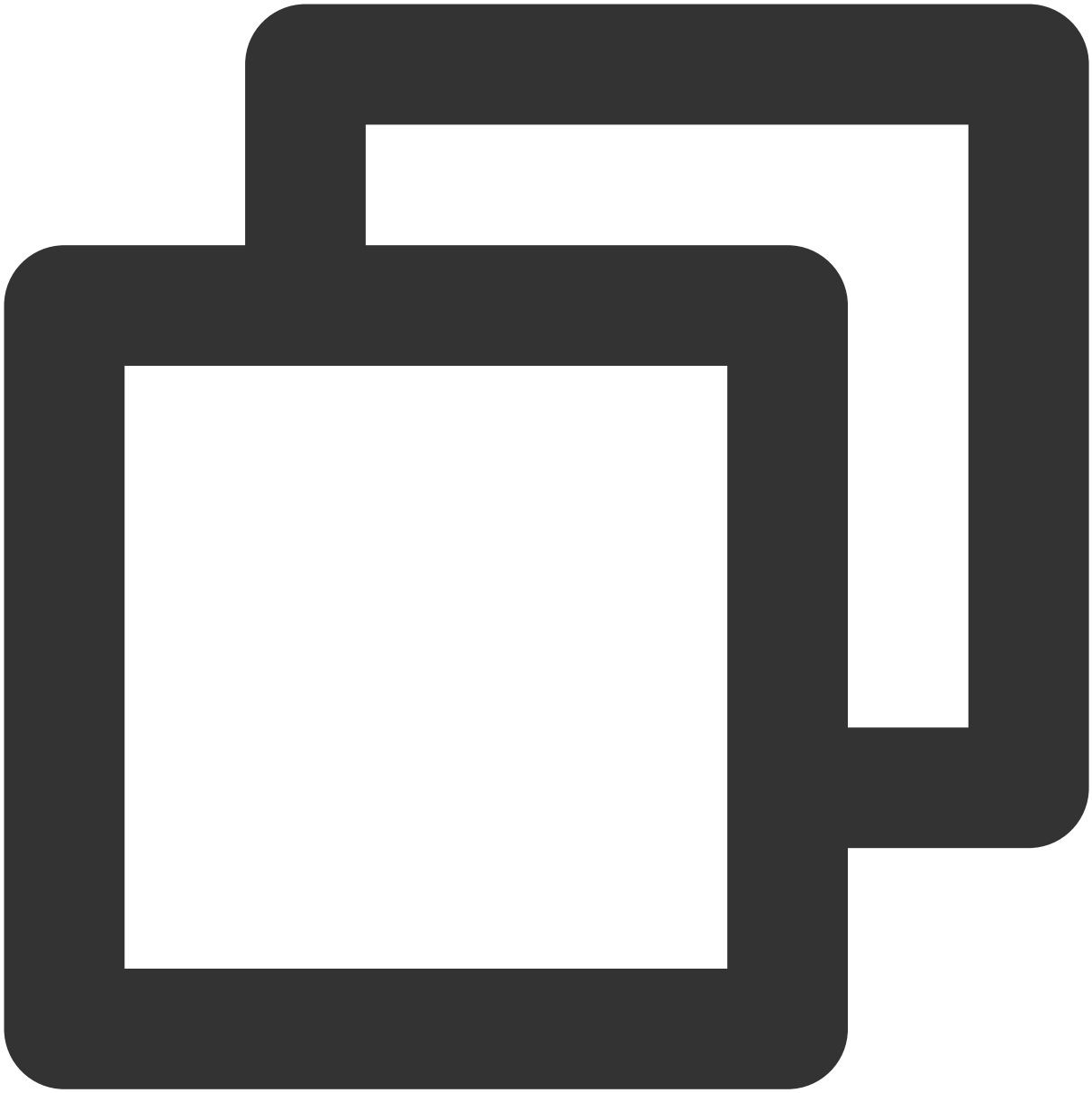

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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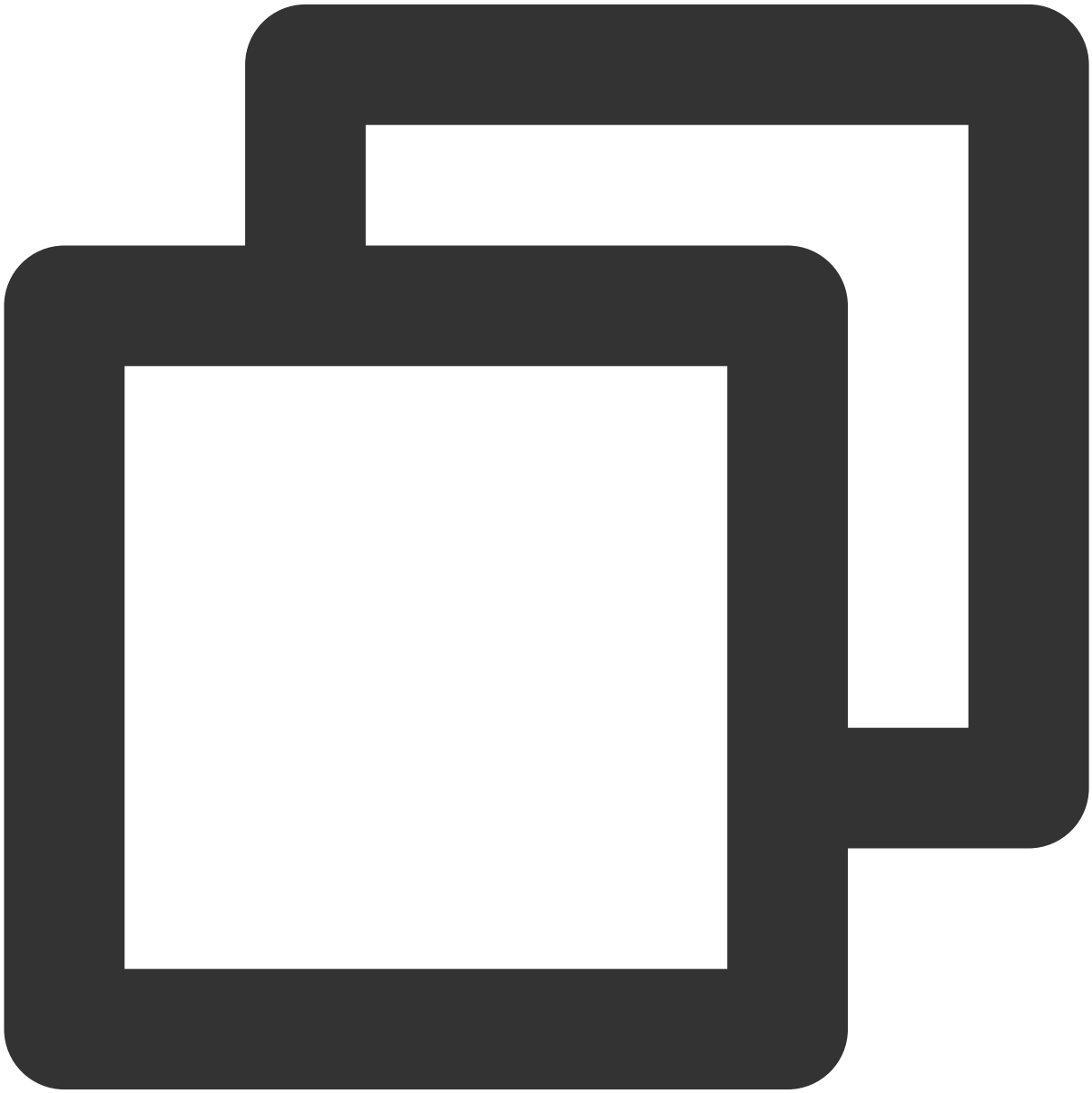
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Pipeline Operators

Last updated：2024-06-12 15:20:05

Overview

COS uses the pipeline operators (|) provided by CI to separate multiple image processing parameters. In this way, multiple operations can be performed in sequence in a single request. The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.

Note:

Image processing is charged by CI. For detailed pricing, please see the image processing prices of CI.

API Format

You can append a style separator (?) to the end of an image URL and then add processing operations. Use pipeline operators (|) to separate multiple operations (up to 10 operations are supported). These operations will be performed in sequence.

Examples

This sample scales the input image to 50% and then adds a text watermark in the lower-right corner.
Assume that the URL of the input image is as follows:

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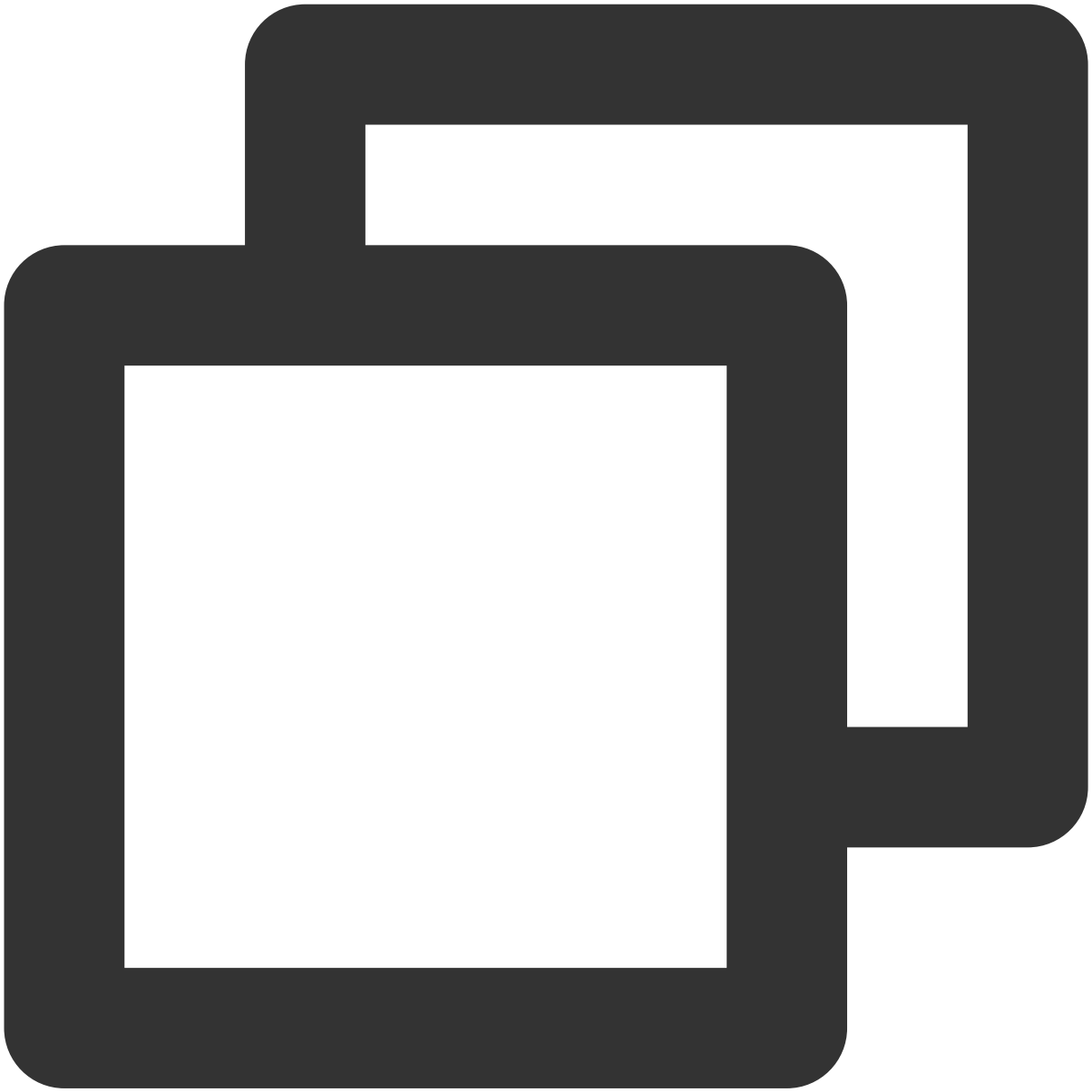

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg
```

Input image:

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Example 1: scaling and adding watermark

Add the scaling operation:

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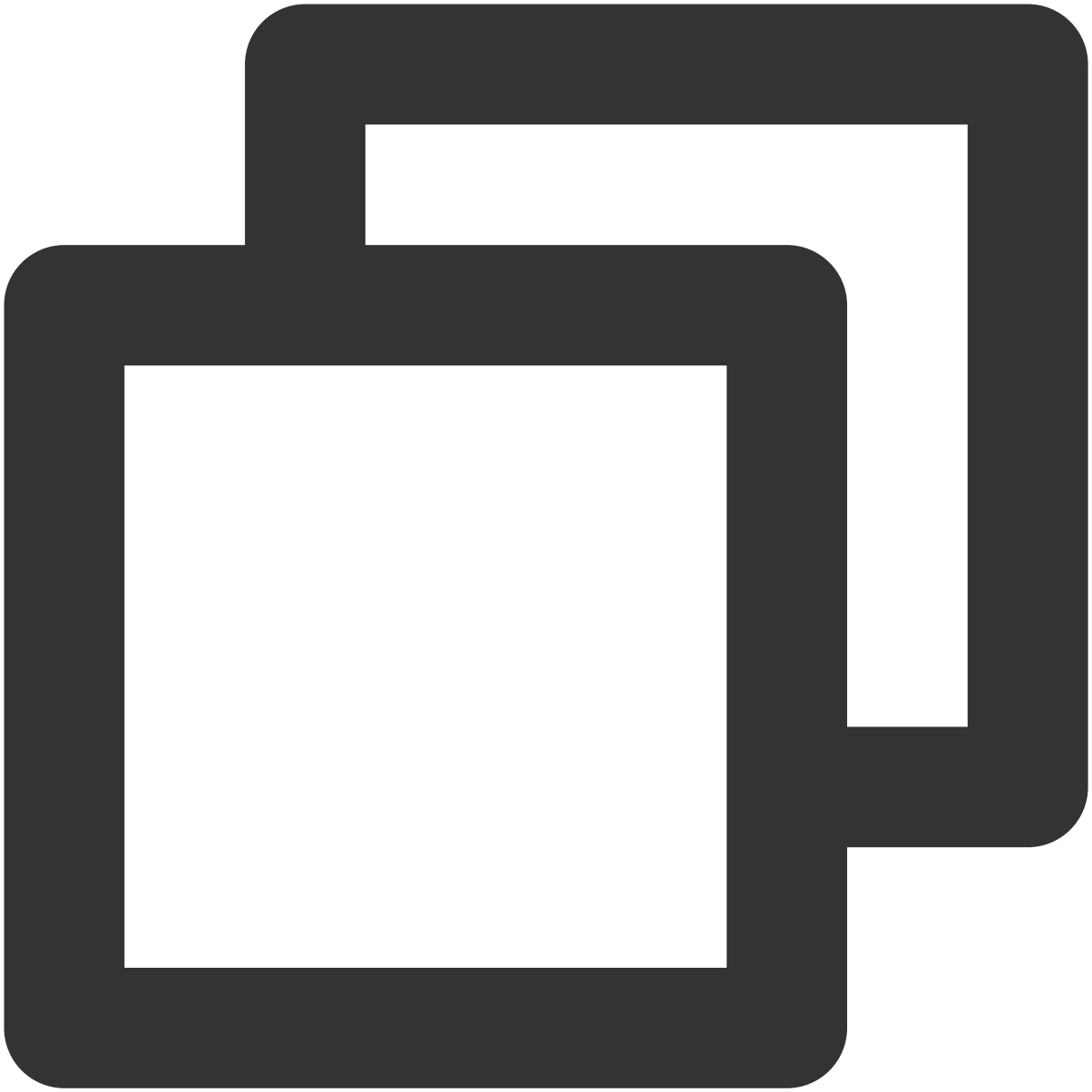

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/thum
```

The scaled image is as follows:

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Append a pipeline operator (|) and then add the text watermarking operation:

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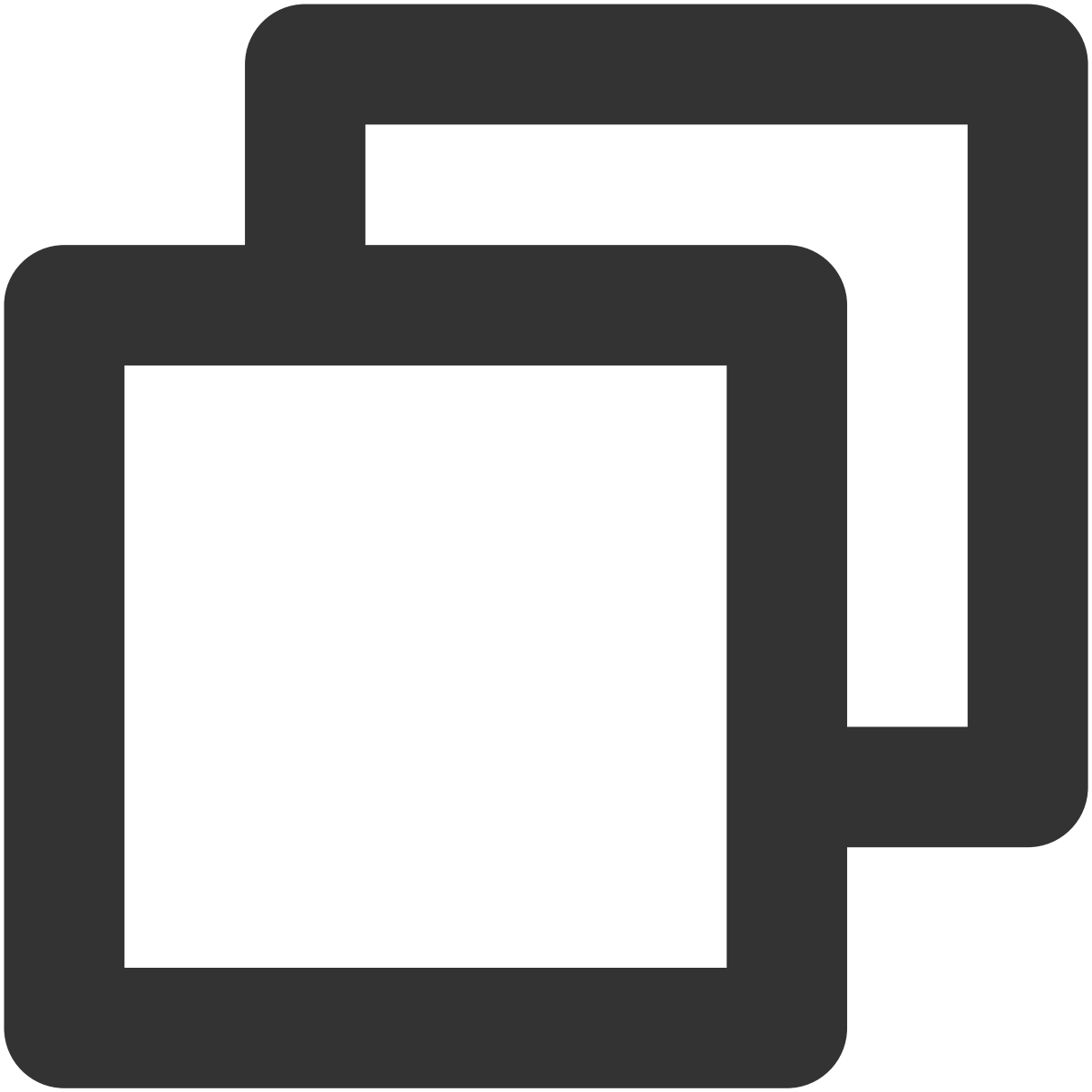

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?imageMogr2/thum
```

Output image:

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Example 2: using pipeline operators with a signature carried

This example processes the image in the same way as in the example above except that a signature is carried. The signature is joined with other processing parameters using an ampersand (&):

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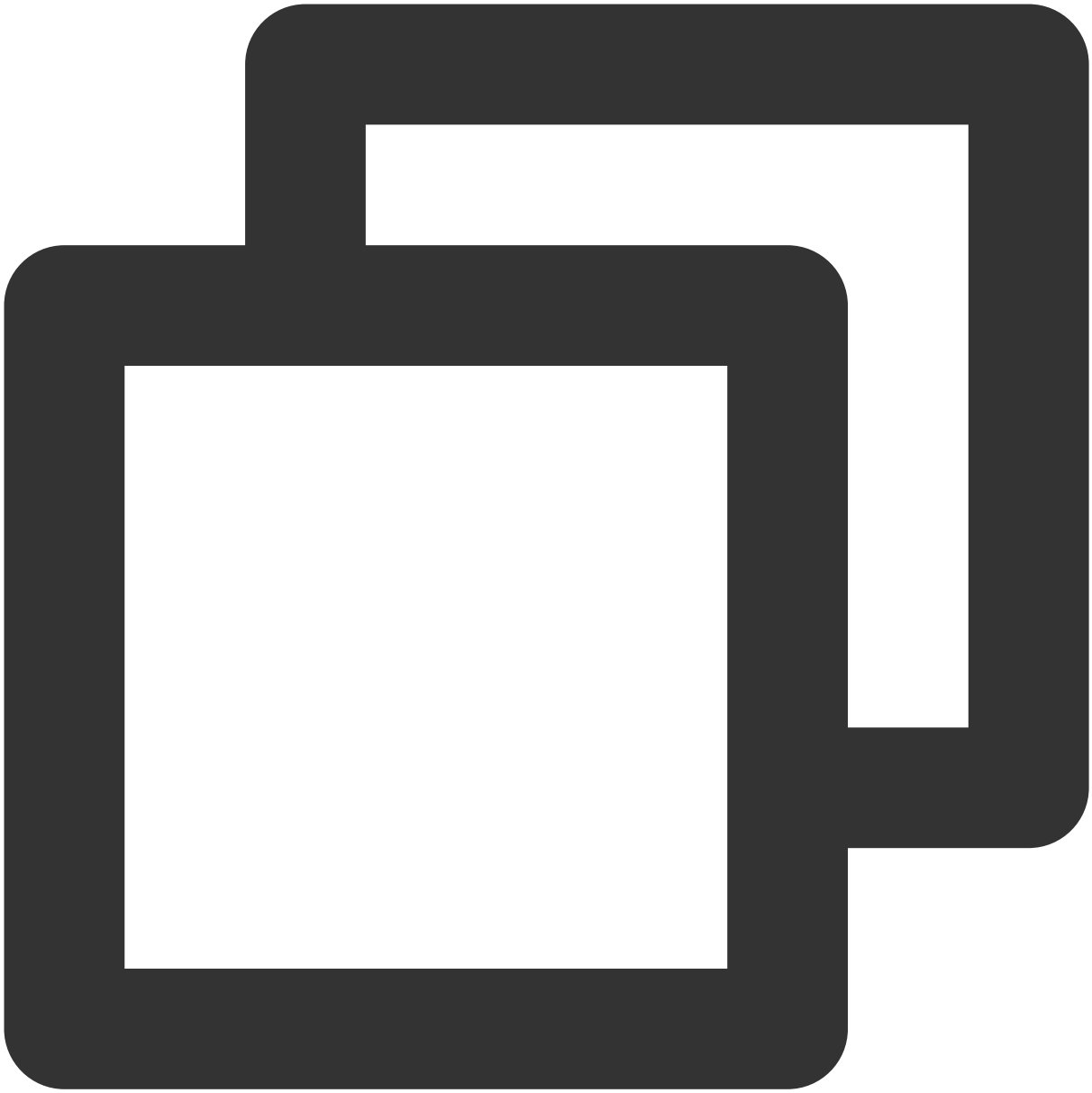

```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

Note:

You can obtain the value of `<signature>` by referring to Request Signature.

Notes

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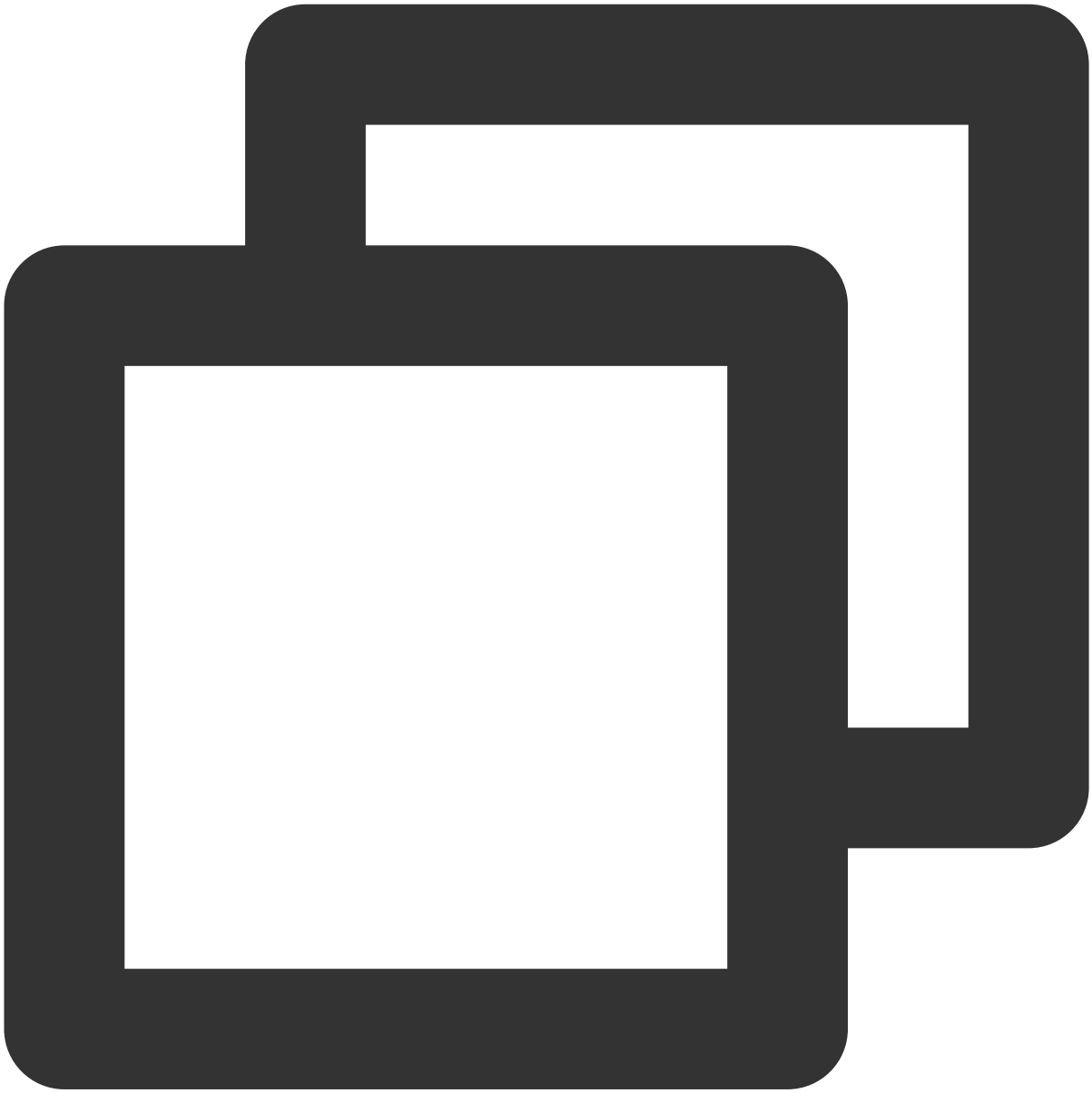
To prevent unauthorized users from accessing or downloading the input image by using a URL that does not contain any processing parameter, you can add the processing parameters to the request signature, making the processing parameters the key of the parameter with the value left empty. The following is a simple example for your reference (it might have expired or become inaccessible). For more information, please see Request Signature.



```
http://examples-1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?q-sign-algorith
```

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Image Advanced Compression

Last updated：2024-06-12 15:20:05

Overview

COS uses the `imageMogr2` API of Cloud Infinite (CI) to perform Image Advanced Compression, which allows you to easily convert images into formats that provide a high compression ratio, such as TPG and HEIF. This effectively reduces the transmission time, loading time, and the use of bandwidth and traffic.

An image can be processed:

Upon download

Upon upload

In cloud

Feature	Description
TPG compression	TPG is a Tencent-designed image format. Converting JPG, PNG, WebP images into TPG can greatly reduce the image sizes.
HEIF compression	If your images are used in iOS environments, you can convert them from JPG, PNG, GIF, WebP, or other formats into HEIF, which offers an ultra-high compression ratio.

Note:

To use Image Advanced Compression, enable this feature on the desired bucket's configuration page. For more information, please see Setting Advanced Compression.

To use the TPG format, ensure that **the environment where images are loaded supports TPG decoding**.

Tencent Cloud CI provides the TPG decoder–integrated SDKs for iOS, Android, and Windows clients to facilitate quick integration with TPG.

Currently, iOS 11 or later and Android P have native support for the HEIF format.

Image Advanced Compression is charged by CI. For detailed pricing, please see Billing and Pricing.

API Format

1. Processing upon download

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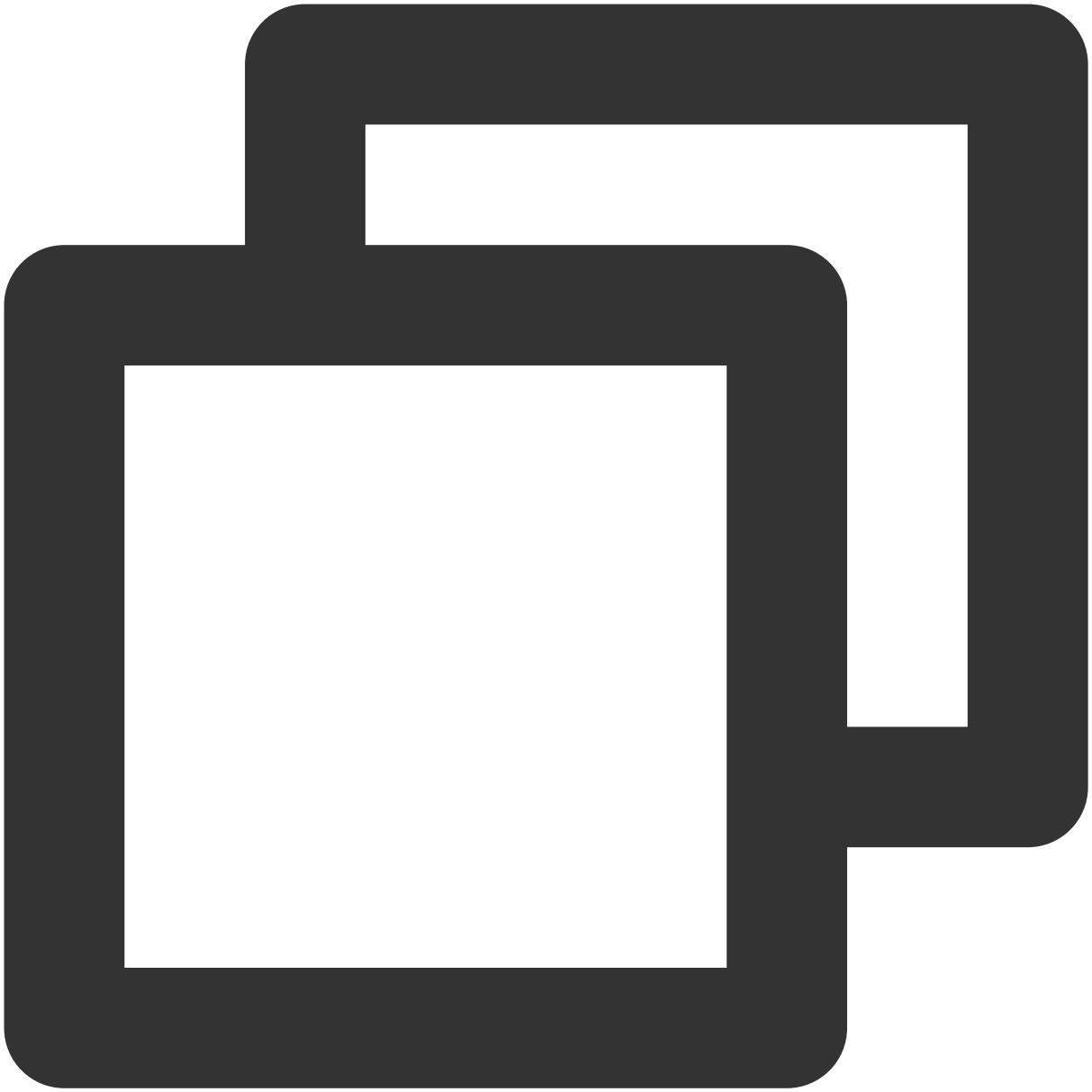

```
download_url?imageMogr2/format/<Format>
```

2. Processing upon upload

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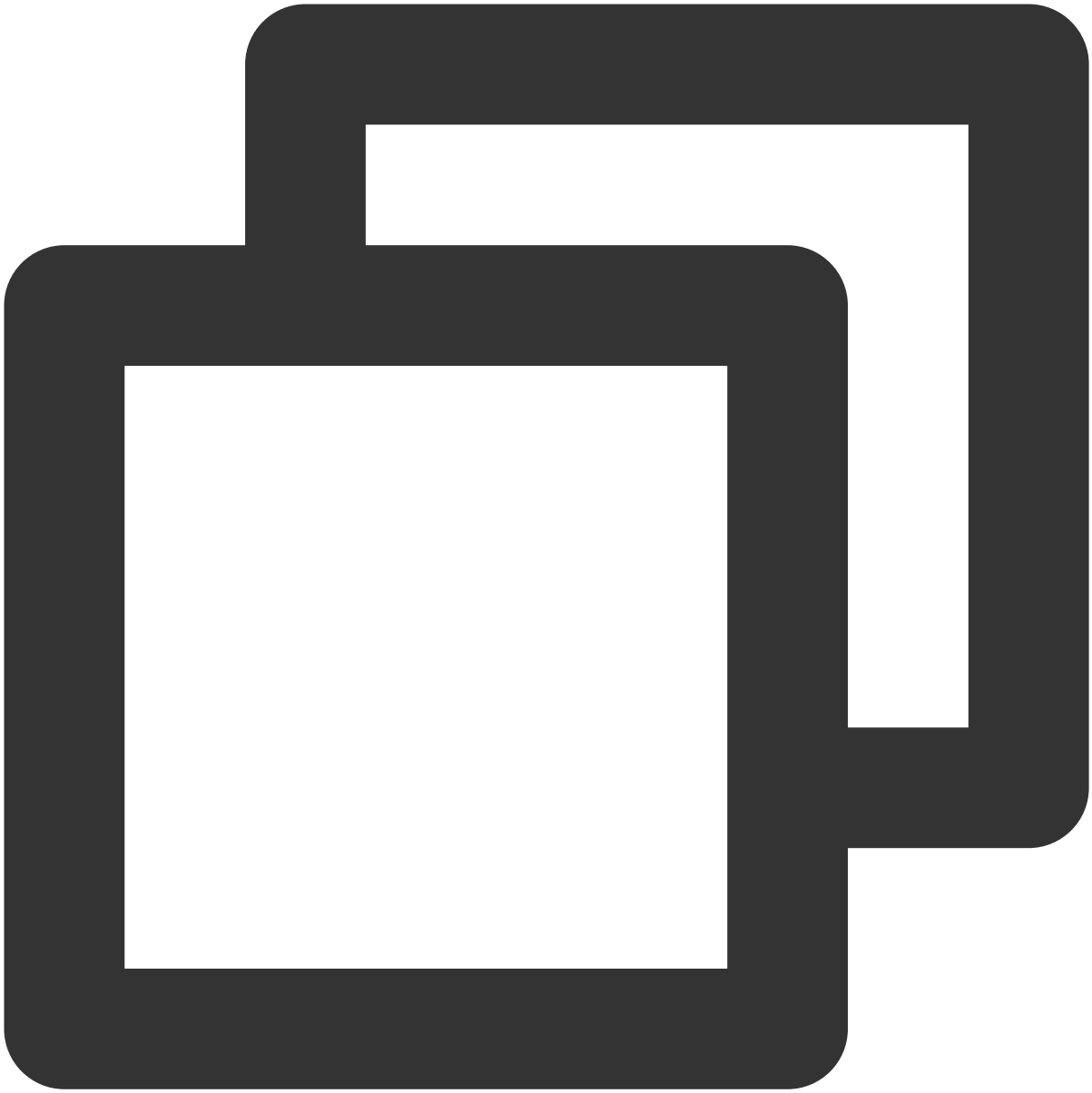

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
  "is_pic_info": 1,
  "rules": [{
      "fileid": "exampleobject",
      "rule": "imageMogr2/format/<Format>"
  }]
```

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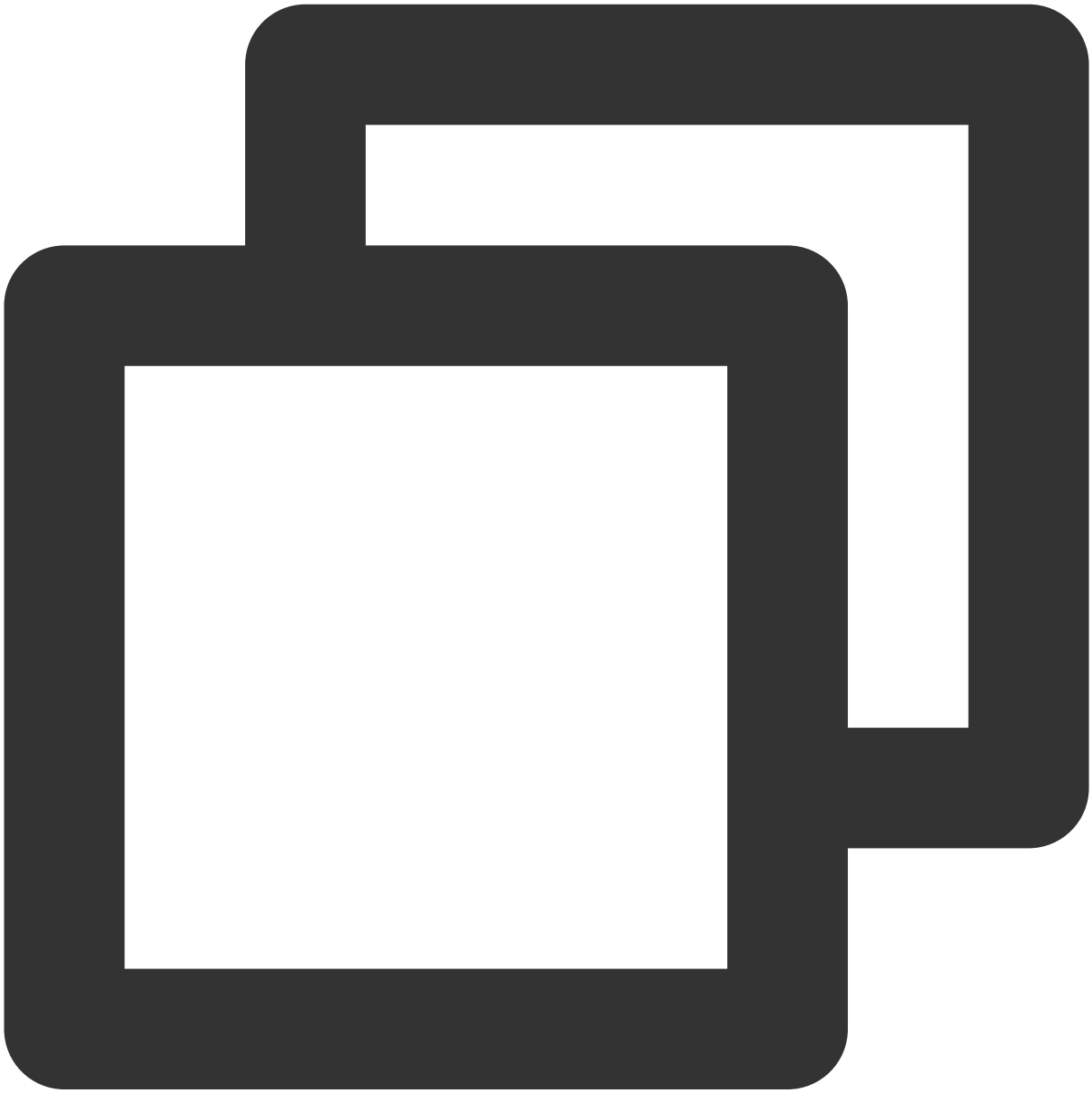
```
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
```

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```
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject",
        "rule": "imageMogr2/format/<Format>"
    }]
}
```

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, please see Persistent Image Processing and use **Processing upon upload** or **Processing in-cloud data**.

Parameters

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/format/<Format>	Target compression format, which can be TPG or HEIF

Examples

Assume that the input image is a 1,335.2 KB image in PNG format, as shown below:

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You can convert the image into TPG format using the following URL:

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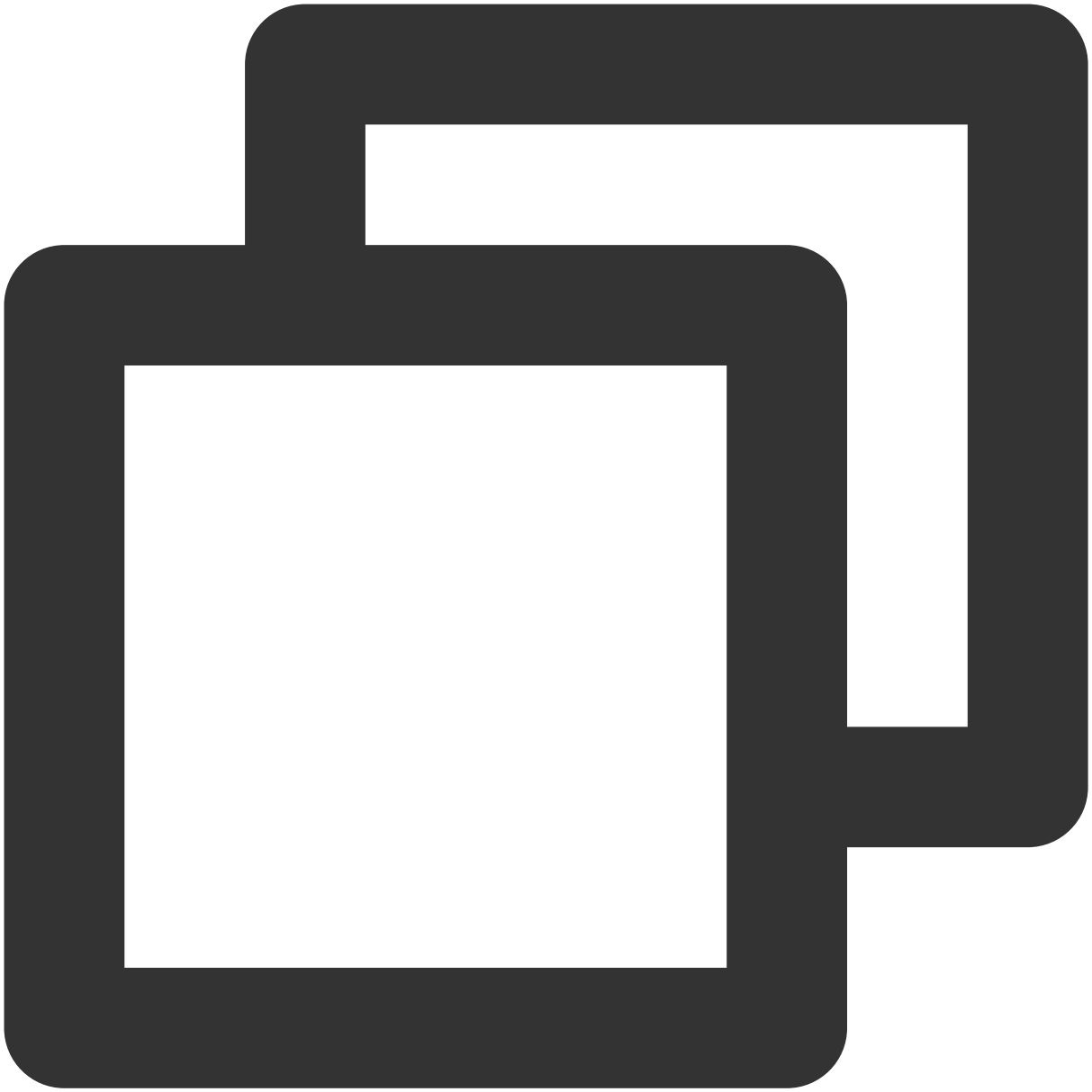

```
http://example-1258125638.cos.ap-shanghai.myqcloud.com/sample.png?imageMogr2/format
```

Alternatively, you can convert the image into HEIF format using the following URL:

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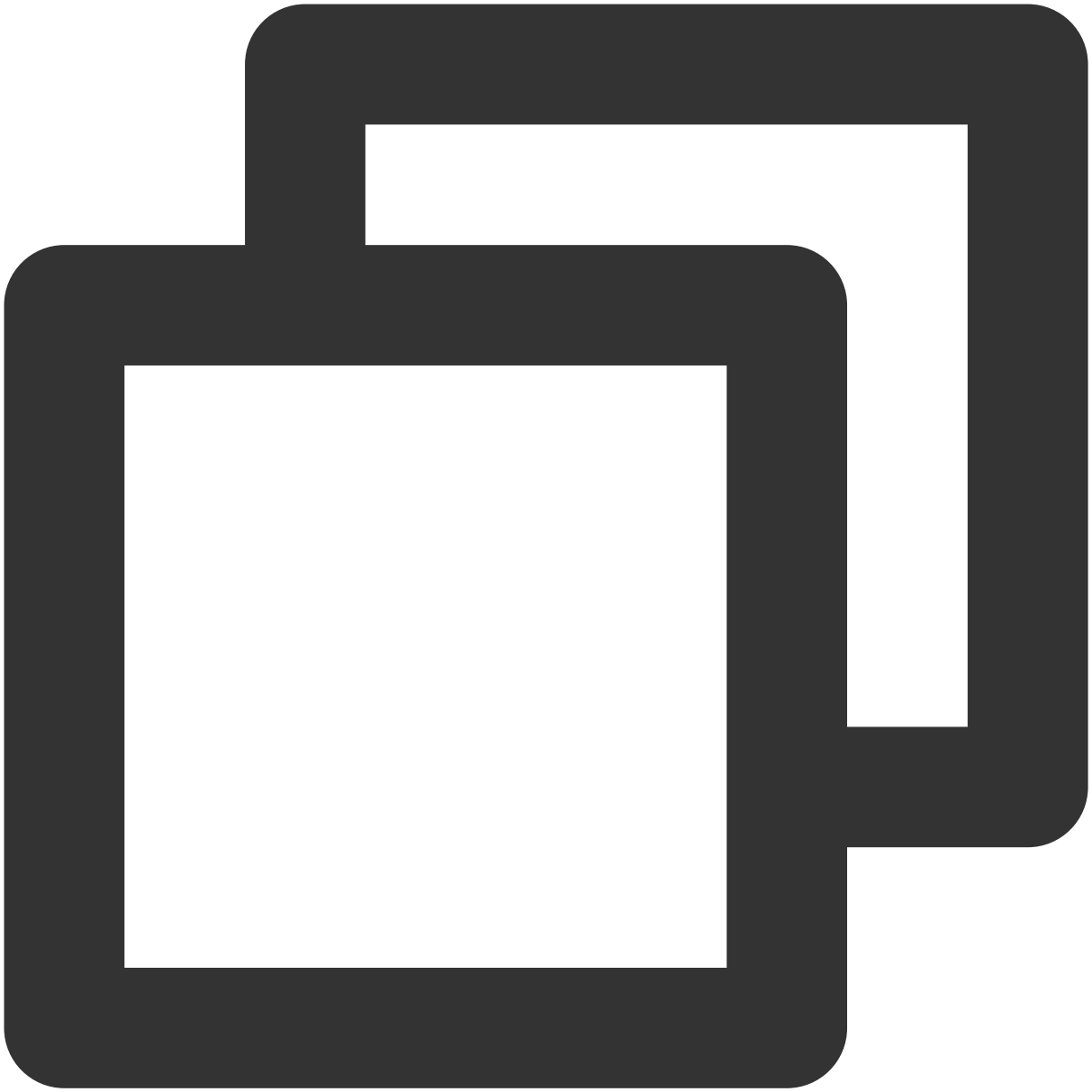

```
http://example-1258125638.cos.ap-shanghai.myqcloud.com/sample.png?imageMogr2/format
```

Compression ratio comparison

Format	Image Size
PNG (input image)	1,335.2 KB
TPG	36.67 KB (compression ratio: 97.3%)
HEIF	52.87 KB (compression ratio: 96.0%)

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Persistent Image Processing

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Processing upon Upload

COS allows you to process images upon upload. To enable this, add the `Pic-Operations` request header and set the relevant parameters. You can also save the input images and processing results to COS. Currently, images within 20 MB can be processed.

Sample request

The request packet for uploading an image is the same as that of the API for simply uploading a COS V5 file. The only difference is that image processing parameters are added to the request packet header.

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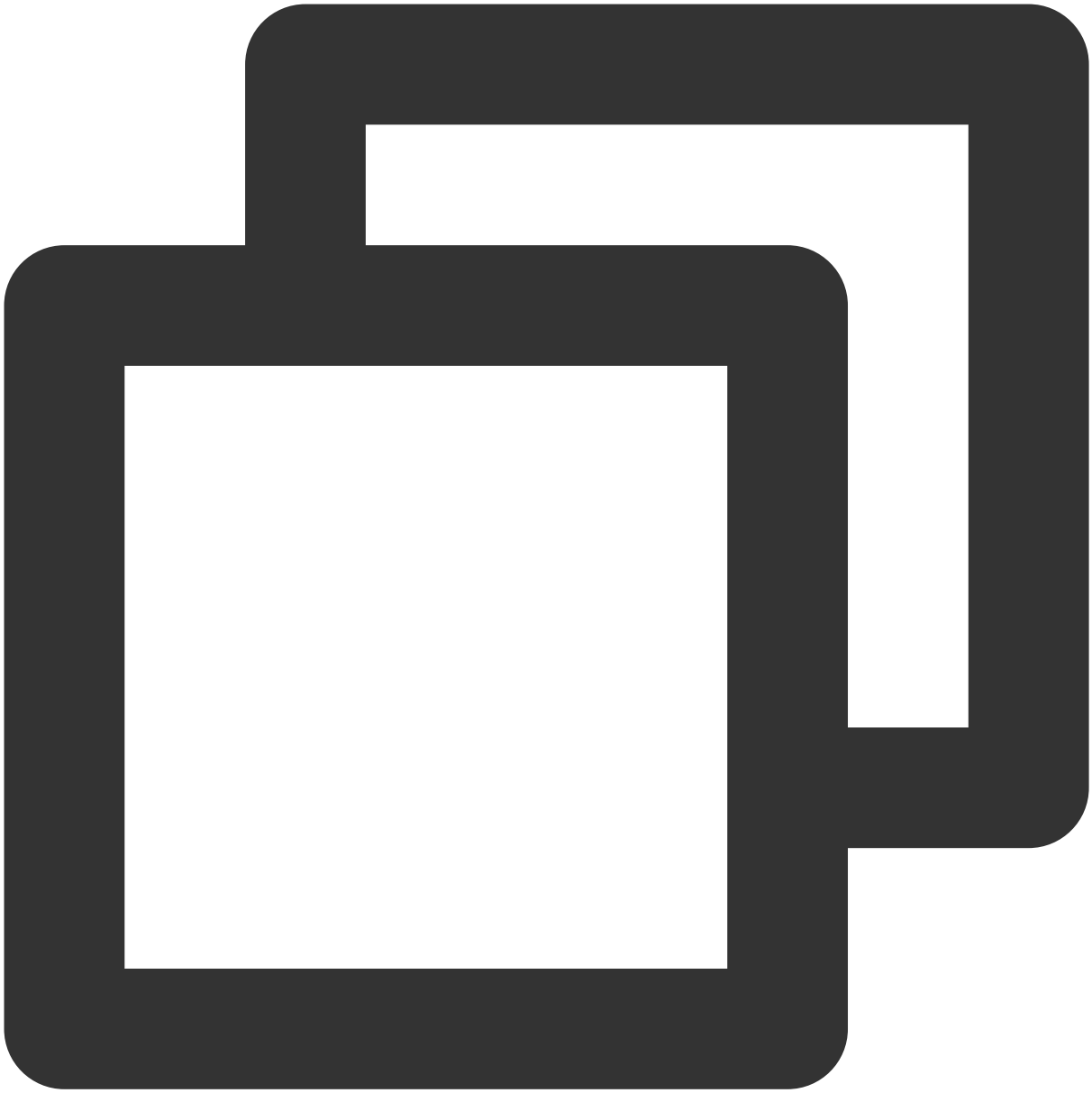

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations: <PicOperations>
```

Note:

For more information about the simple upload API of COS, please see PUT Object.

Authorization: Auth String (For more information, please see Request Signature.)

The QPS for Persistent Image Processing is limited to 100. For a higher QPS, please contact us.

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Request content

`Pic-Operations` is a JSON string. Its parameters are as follows:

Parameter	Type	Required	Description
is_pic_info	Int	No	Whether to return the input image information `0` (default): no `1` : yes
rules	Array	No	Processing rules (up to 5 rules are supported). Each rule corresponds to one processing result. If this parameter is not specified, images will not be processed.

Parameters of `rules` (a JSON array) are as follows:

Parameter	Type	Required	Description
bucket	String	No	Name of the destination bucket to store the results, formatted as `BucketName-APPID` . If this parameter is not specified, the results will be stored in the current bucket.
fileid	String	Yes	The path and name of the output file The rules for setting this parameter are as follows (assume that the input file is stored in `/p1/test1.jpg`): A value starting with a slash (/) indicates an absolute path. For example, if fileid is set to /p2/test2.jpg, the test2.jpg file will be stored in the p2 folder. A value not starting with a slash indicates a relative path. For example, if fileid is set to p2/test2.jpg, a folder named p2 is created in the p1 folder, and the test2.jpg file will be stored in the p2 folder. Note: Do not end the value with a slash. Otherwise, an empty filename will be generated.
rule	String	Yes	Processing parameters. For more information, please see COS's image processing API. To process an image using a specified style, the value must start with `style/` with the style name followed. For example, if the style name is `test` , the value of `rule` should be `style/test` .

Response

Parameters in the response body are as follows:

Parameter	Type	Description
UploadResult	Container	Original image information

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Content of `UploadResult` :

Parameter	Type	Description
OriginalInfo	Container	Input image information
ProcessResults	Container	Image processing results

Content of `OriginalInfo` :

Parameter	Type	Description
Key	String	Name of the input image
Location	String	Location of the image
ImageInfo	Container	Information of the original image
ETag	String	ETag of the input image. If the output image overwrites the input image, the value of `ETag` will be that of the output image.

Content of `ImageInfo` :

Parameter	Type	Description
Format	String	Format
Width	Int	Image width
Height	Int	Image height
Quality	Int	Image quality
Ave	String	Image average hue
Orientation	Int	Image rotation angle

Content of `ProcessResults` :

Parameter	Type	Description
Object	Container	Processing result of each image

Content of `Object` :

Parameter	Type	Description

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Key	String	Filename
Location	String	Image path
Format	String	Image format
Width	Int	Image width
Height	Int	Image height
Size	Int	Image size
Quality	Int	Image quality
ETag	String	ETag of the output image

Samples

Request

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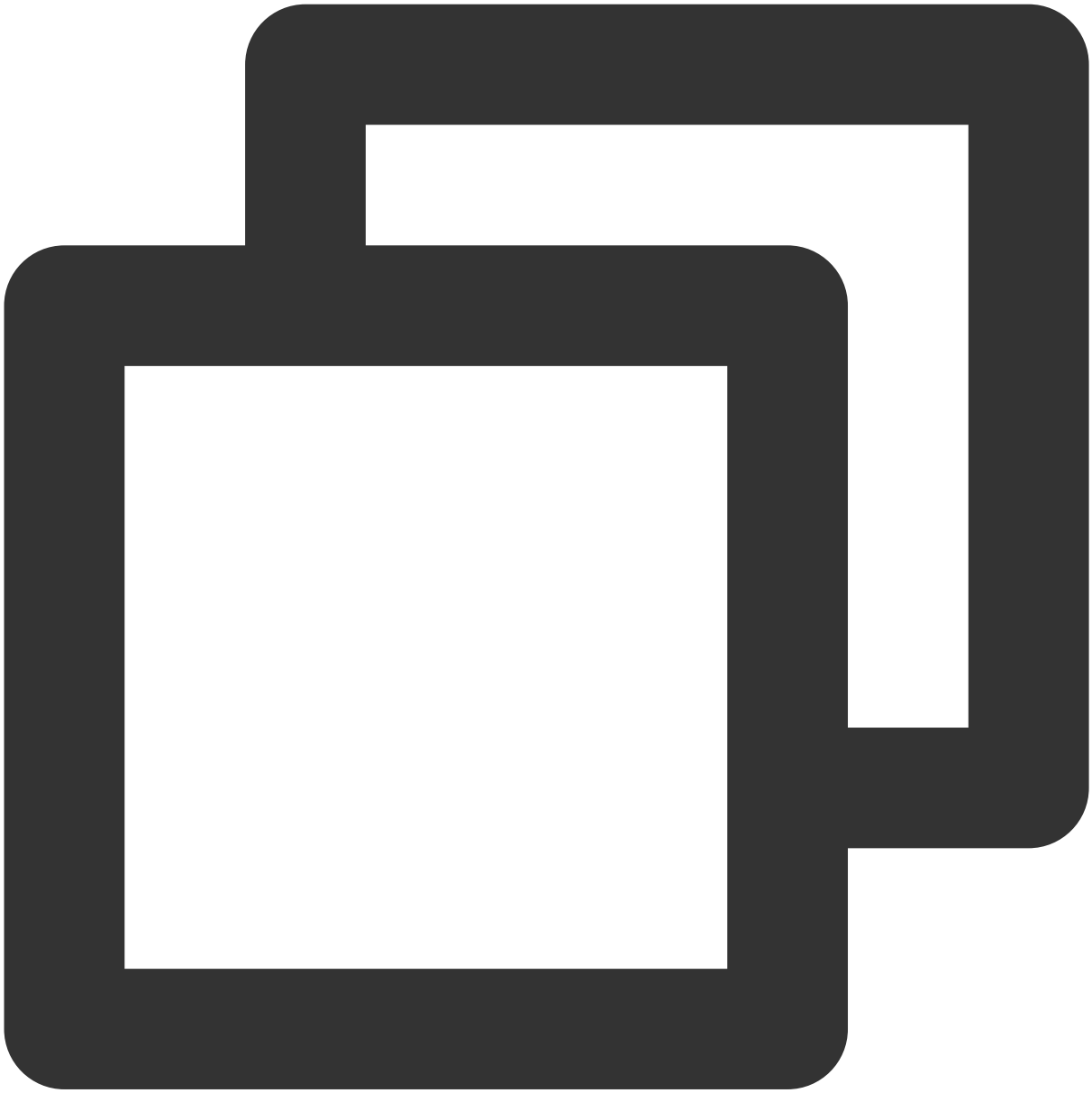

```
PUT /filename.jpg HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Date: Wed, 28 Oct 2015 20:32:00 GMT
Authorization:XXXXXXXXXXXX
Pic-Operations: {"is_pic_info":1,"rules":[{"fileid":"test.jpg","rule":"imageView2/f
Content-Length: 64

[Object]
```

Response

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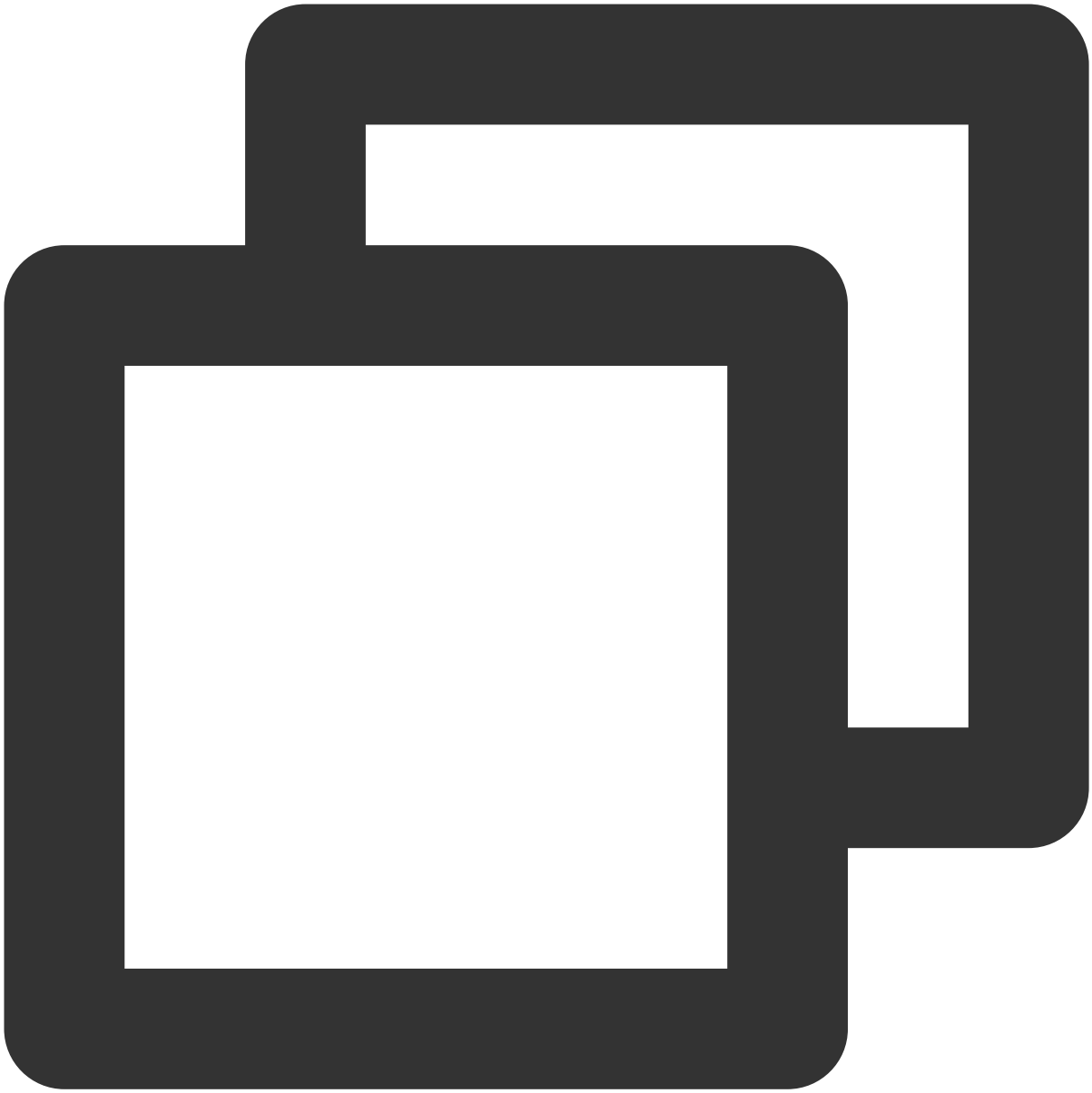

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
Status: 200 OK
x-cos-request-id: NWFjMzQ0MDZfOTBmYTUwXzZkZV8z****

<UploadResult>
        <OriginalInfo>
            <Key>filename.jpg</Key>
            <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/filename
```

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```
            <ETag>&amp;quot;580cd6930444576523c25f86ce2af9b1fc2d5484&amp;quot;</ETag>
            <ImageInfo>
                <Format>JPEG</Format>
                <Width>640</Width>
                <Height>427</Height>
                <Quality>100</Quality>
                <Ave>0xa18454</Ave>
                <Orientation>1</Orientation>
            </ImageInfo>
        </OriginalInfo>
        <ProcessResults>
            <Object>
                <Key>test.jpg</Key>
                <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/test
                <Format>png</Format>
                <Width>640</Width>
                <Height>427</Height>
                <Size>463092</Size>
                <Quality>100</Quality>
                <ETag>&amp;quot;eaa4e3d8fd498bbc63be3b71c46b9c61f23e3f0c&amp;quot;</ETag>
            </Object>
        </ProcessResults>
</UploadResult>
```

Note:

Processing upon upload supports the multipart upload feature of COS V5. You can process images by adding the `Pic-Operations` request header when calling the Complete Multipart Upload API.

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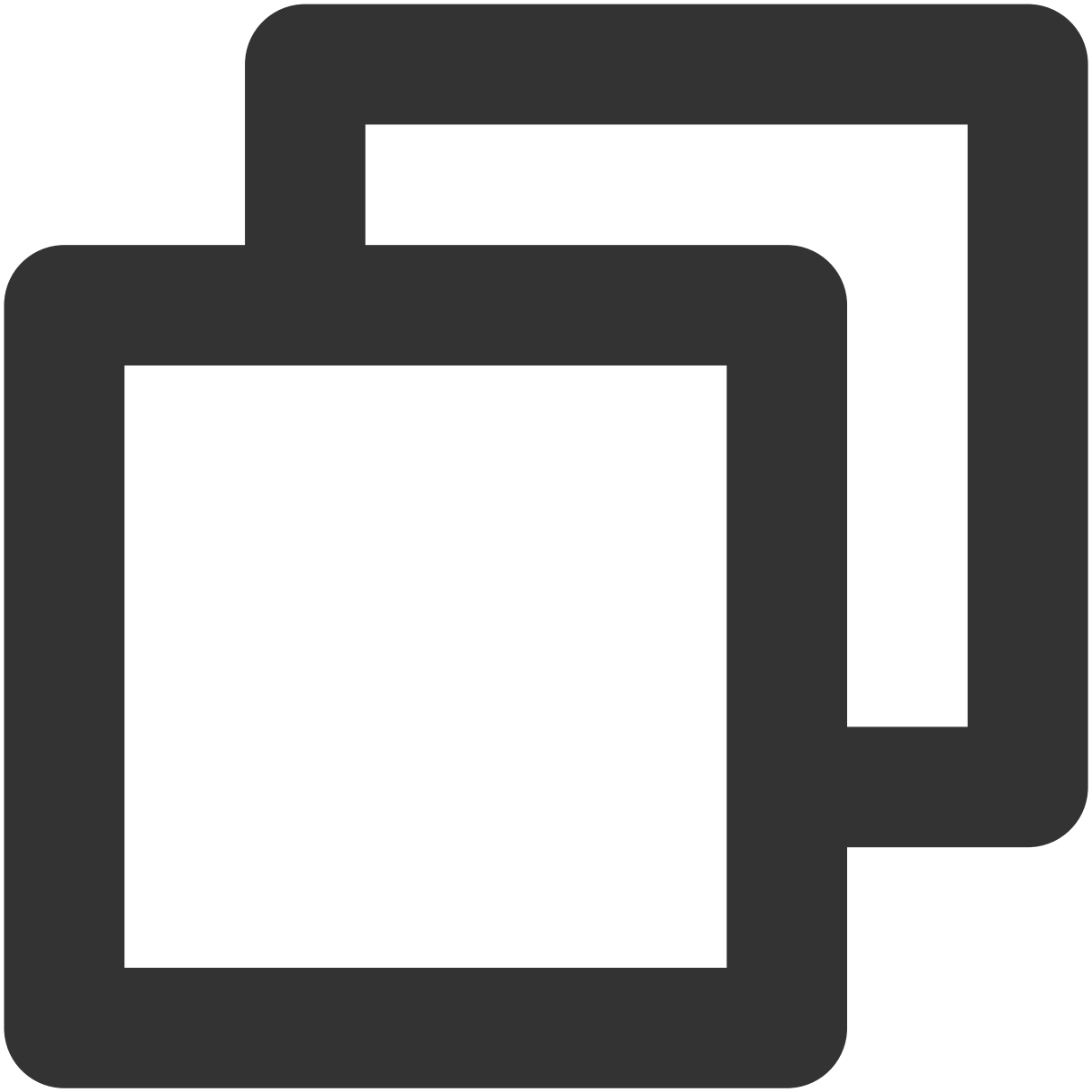

```
POST /<ObjectKey>?uploadId=UploadId HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations: <PicOperations>
```

Note:

For more information, please see Complete Multipart Upload.

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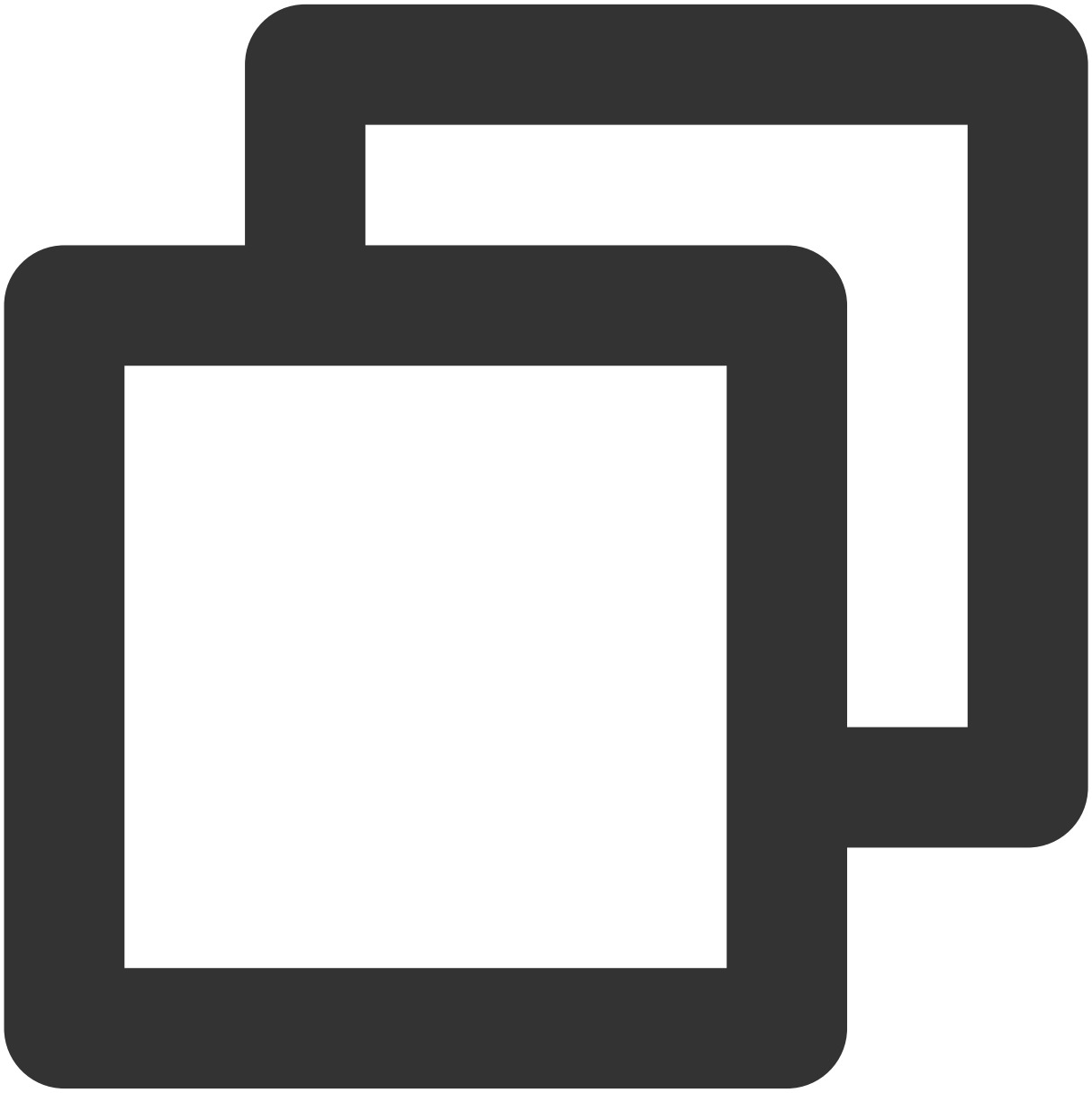
Processing In-Cloud Data

COS's image processing API can process an in-cloud image and save the processing result to COS.

Sample request



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
```

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```
Authorization: Auth String
Pic-Operations: <PicOperations>
```

Request content

`Pic-Operations` is a JSON string. Its parameters are as follows:

Parameter	Type	Required	Description
is_pic_info	Int	No	Whether to return the input image information `0` (default): no `1` : yes
rules	Array	No	Processing rules (up to 5 rules are supported). Each rule corresponds to one processing result. If this parameter is not specified, images will not be processed.

Parameters of `rules` (a JSON array) are as follows:

Parameter	Type	Required	Description
bucket	String	No	Name of the destination bucket to store the results, formatted as `BucketName-APPID` . If this parameter is not specified, the results will be stored in the current bucket.
fileid	String	Yes	The path and name of the output file The rules for setting this parameter are as follows (assume that the input file is stored in `/p1/test1.jpg`): A value starting with a slash (/) indicates an absolute path. For example, if fileid is set to /p2/test2.jpg, the test2.jpg file will be stored in the p2 folder. A value not starting with a slash indicates a relative path. For example, if fileid is set to p2/test2.jpg, a folder named p2 is created in the p1 folder, and the test2.jpg file will be stored in the p2 folder. Note: Do not end the value with a slash. Otherwise, an empty filename will be generated.
rule	String	Yes	Processing parameters. For more information, please see COS's image processing API. To process an image using a specified style, the value must start with `style/` with the style name followed. For example, if the style name is `test` , the value of `rule` should be `style/test` .

Response

Parameters in the response body are as follows:

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Parameter	Type	Description
UploadResult	Container	Input image information

Content of `UploadResult`:

Parameter	Type	Description
OriginalInfo	Container	Input image information
ProcessResults	Container	Image processing results

Content of `OriginalInfo`:

Parameter	Type	Description
Key	String	Name of the input image
Location	String	Location of the image
ImageInfo	Container	Information of the original image
ETag	String	ETag of the original image. If the output image overwrites the original image, the value of `etag` will be that of the output image

Content of `ImageInfo`:

Parameter	Type	Description
Format	String	Format
Width	Int	Image width
Height	Int	Image height
Quality	Int	Image quality
Ave	String	Image average hue
Orientation	Int	Image rotation angle

Content of `ProcessResults`:

Parameter	Type	Description
Object	Container	Processing result of each image

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Content of `Object` :

Parameter	Type	Description
Key	String	Filename
Location	String	Image path
Format	String	Image format
Width	Int	Image width
Height	Int	Image height
Size	Int	Image size
Quality	Int	Image quality
ETag	String	ETag of the output image

Samples

Request

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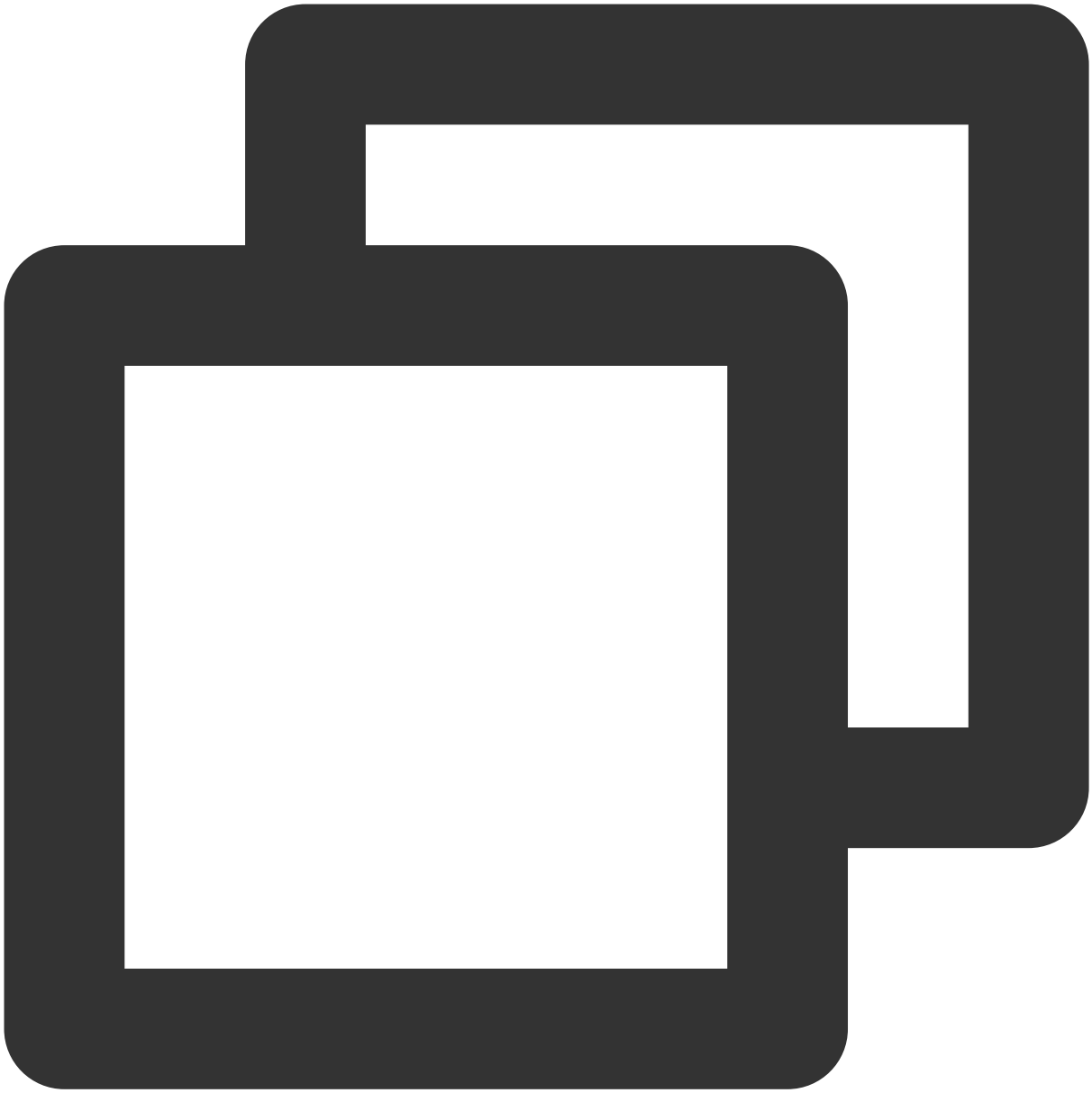

```
POST /filename.jpg?image_process HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Date: Wed, 18 Jan 2017 16:17:03 GMT
Authorization: XXXXXXXXXX
Pic-Operations: {"is_pic_info":1,"rules":[{"fileid":"test.jpg","rule":"imageView2/f
Content-Length: XX
```

Response

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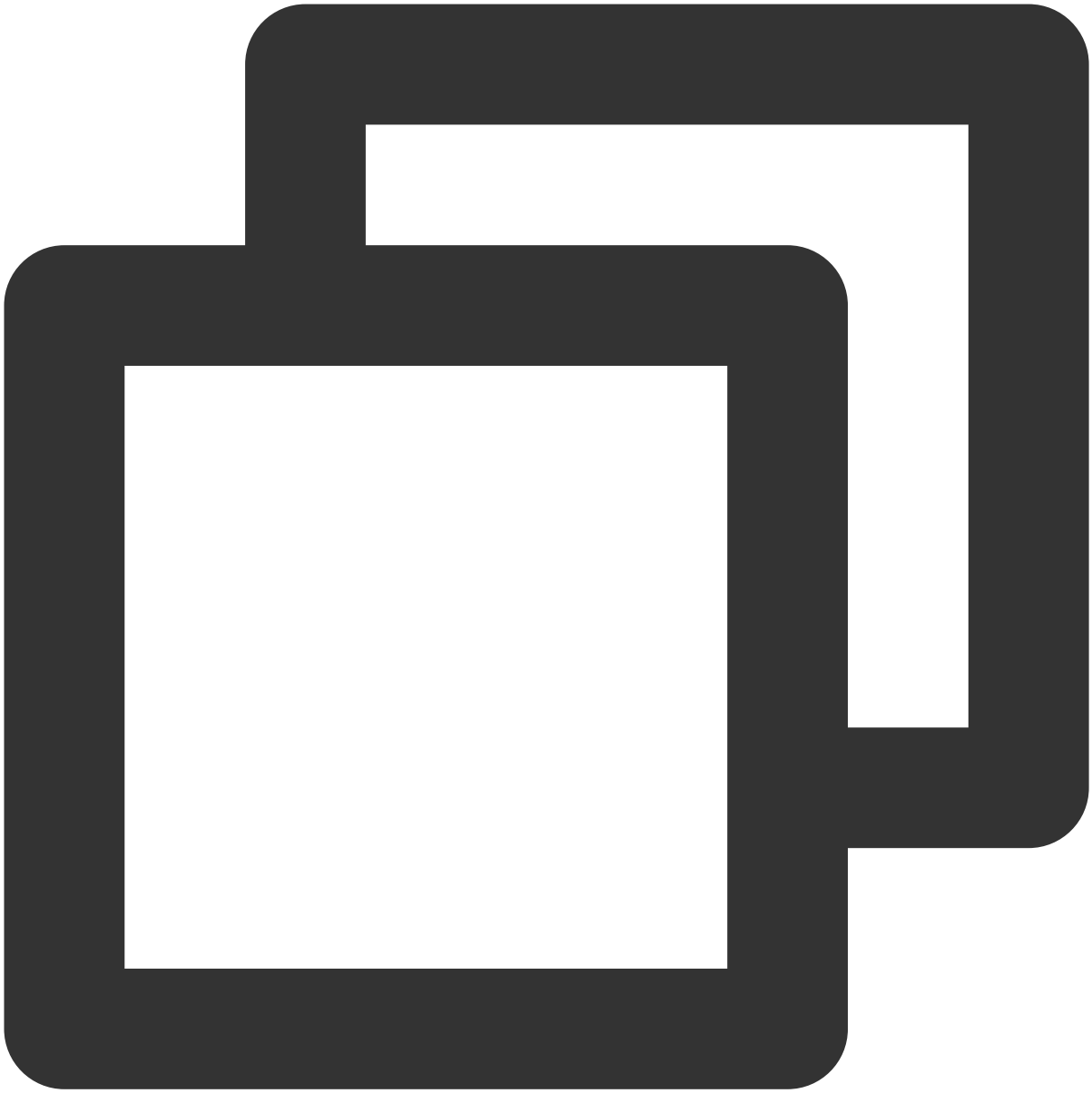

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
Status: 200 OK
x-cos-request-id: NWFjMzQ0MDZfOTBmYTUwXzZkZV8z****

<UploadResult>
            <OriginalInfo>
                <Key>filename.jpg</Key>
                <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/file
```

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```
                <ETag>&amp;quot;eaa4e3d8fd498bbc63be3b71c46b9c61f23e3f0c&amp;quot;</ETag>
                <ImageInfo>
                    <Format>JPEG</Format>
                    <Width>640</Width>
                    <Height>427</Height>
                    <Quality>100</Quality>
                    <Ave>0xa18454</Ave>
                    <Orientation>1</Orientation>
                </ImageInfo>
            </OriginalInfo>
            <ProcessResults>
                <Object>
                    <Key>test.jpg</Key>
                    <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/
                    <Format>png</Format>
                    <Width>640</Width>
                    <Height>427</Height>
                    <Size>463092</Size>
                    <Quality>100</Quality>
                    <ETag>&amp;quot;eaa4e3d8fd498bbc63be3b71c46b9c61f23e3f0c&amp;quot;</ETa
                </Object>
            </ProcessResults>
</UploadResult>
```

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Image Compression
WebP Compression

Last updated：2024-06-12 15:20:05

Feature Description

Image compression is the process of downsizing an image as much as possible without sacrificing quality so that it can be stored at a lower cost and accessed more quickly.
COS launched the WebP compression feature based on CI to convert images to .webp format, which is superior to .jpg in terms of compression. A .webp image is over 25% smaller than a .jpg image with the same quality. This format is suitable for multi-terminal use cases.

Restrictions

Format: Images in JPG, PNG, BMP, GIF, HEIF, or AVIF format can be converted to WebP format.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels respectively, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels respectively. For an animated input image, the total number of pixels (width * height * number of frames) cannot exceed 250 million.
Frames (for animated images): For GIF images, the number of frames cannot exceed 300.

Directions

COS uses CI's `imageMogr2` API to provide the WebP compression feature.
This feature supports processing:
During download
During upload
In the cloud
Note:
WebP compression is a paid service charged by CI at the basic image processing prices. For detailed pricing, see Image Processing Fees.
If an image is converted to WebP format, some browsers may not be able to read its EXIF data. As a result, the image cannot be rotated. You can add the `auto-orient` parameter to rotate the input image first before compressing it (see Rotation) .

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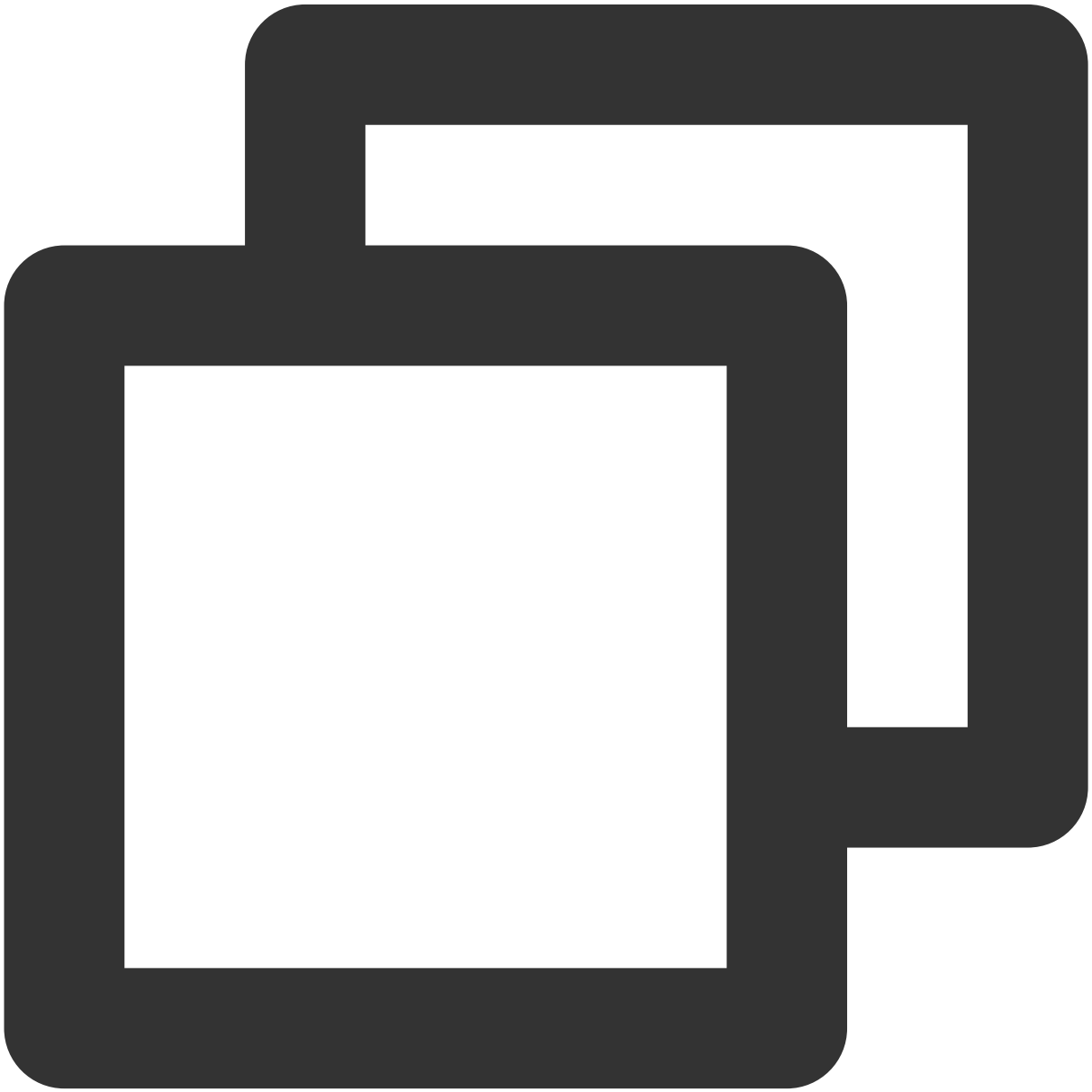
WebP compression inherits the quality parameters of the input image by default. You can adjust the compression ratio by modifying the image quality as instructed in Quality Change.

API Sample

1. Processing during download



```
GET /<ObjectKey>?imageMogr2/format/webp HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
```

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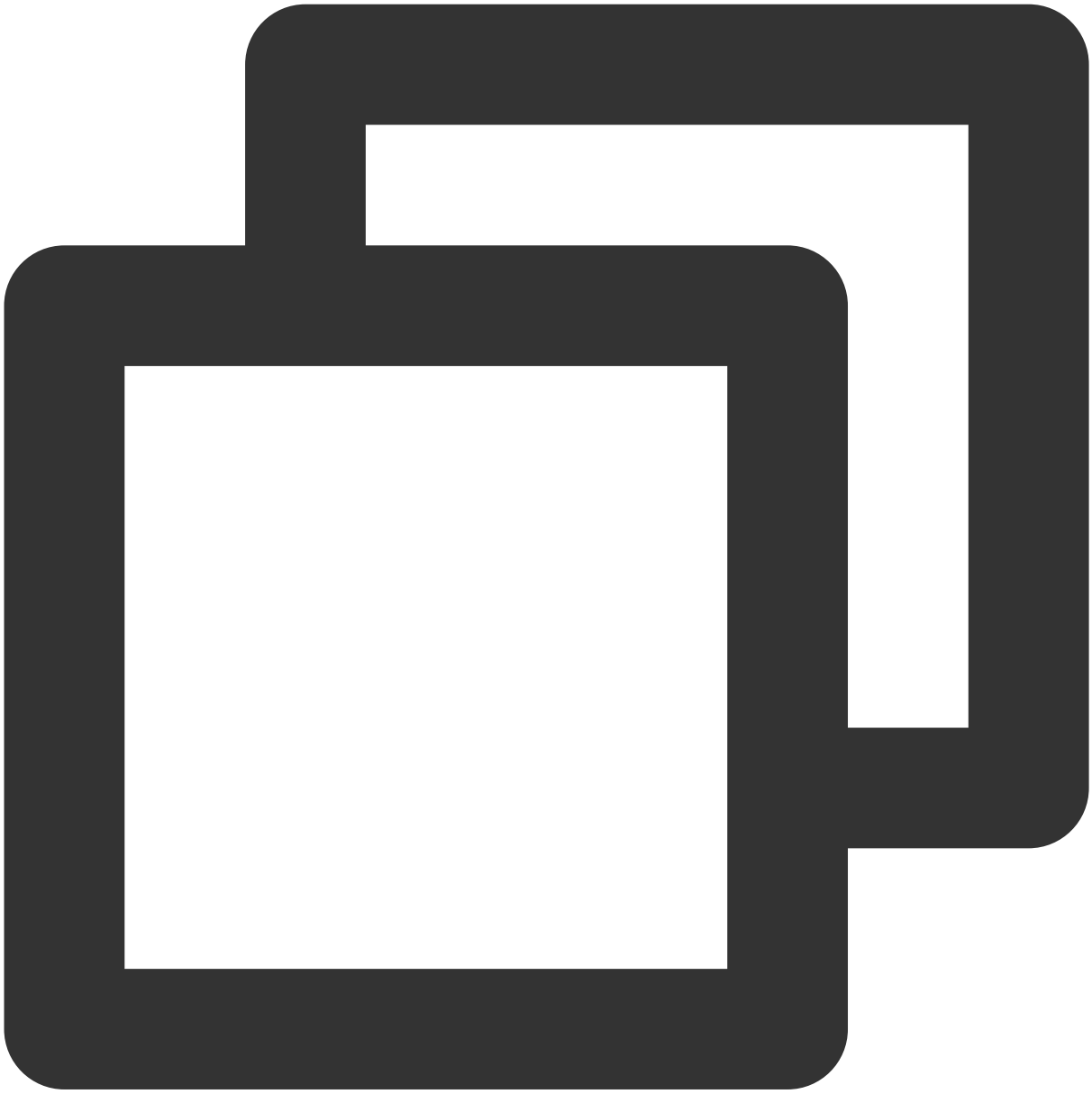
```
Date: <GMT Date>
Authorization: <Auth String>
```

2. Processing during upload



```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
```

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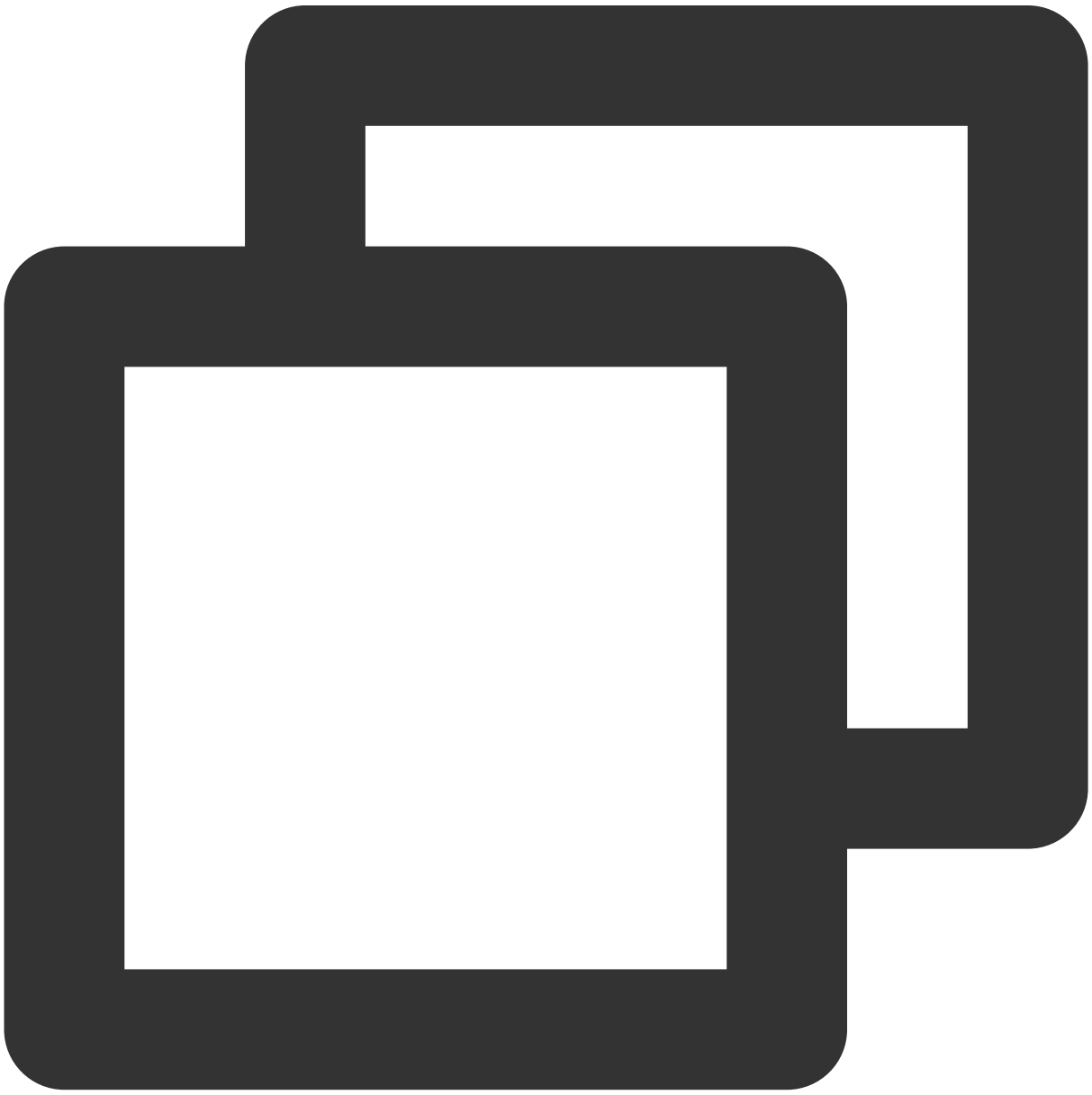
```
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/webp"
}]
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data



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```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/webp"
}]
}
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity Details.

Parameters

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg` .
/format/<Format>	Compression format, which is `webp` here.

Samples

Note:

Processing during download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, use **processing during upload** or **processing in-cloud data** instead.

Assume the input image is a 1,335.2 KB image in PNG format.

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You can convert the image to WebP format by using the following request URL:

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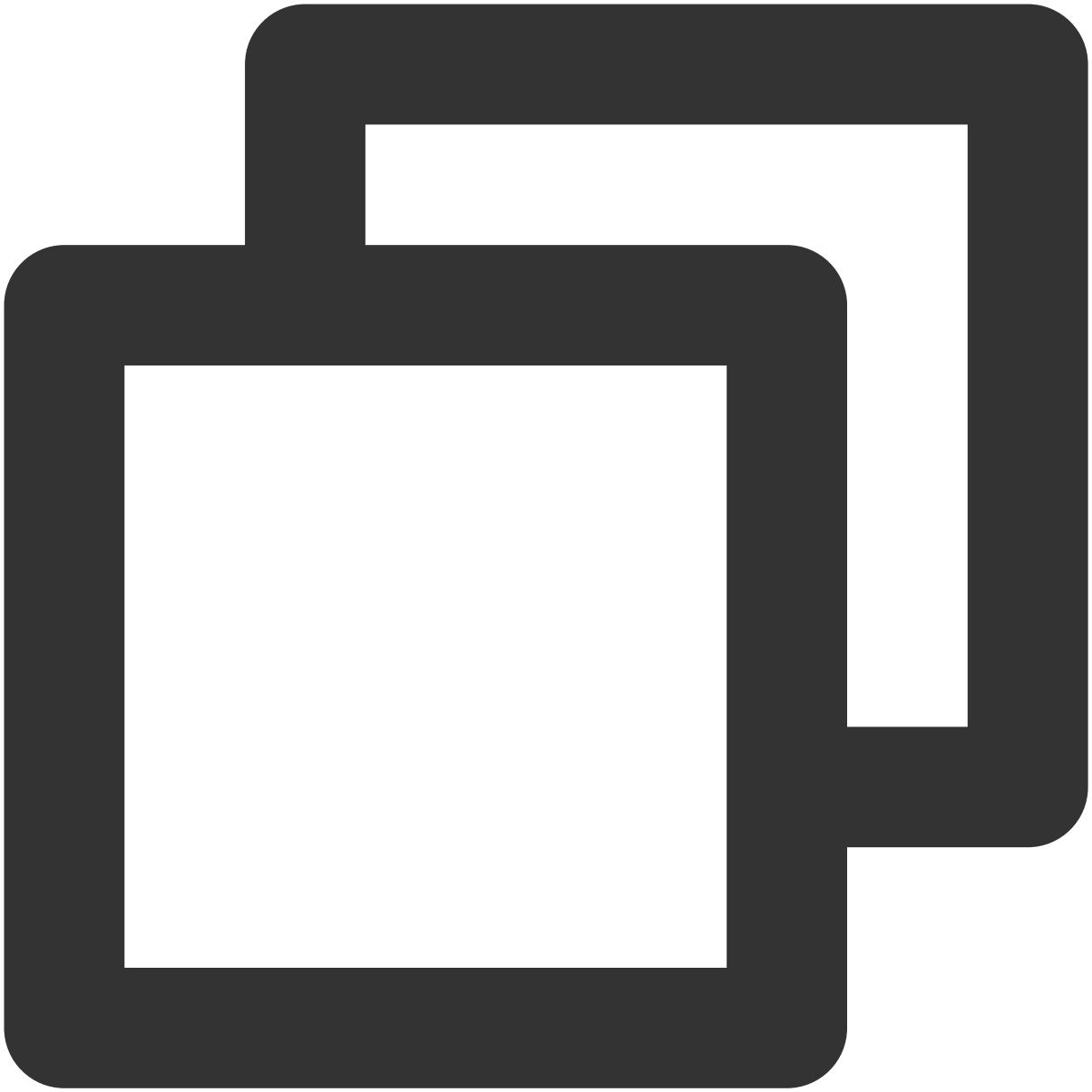

```
http://example-1258125638.cos.ap-shanghai.myqcloud.com/sample.png?imageMogr2/format
```

Output:

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Compression ratio comparison

Format	Image Size
PNG (input image)	1,335.2 KB
WebP	65 KB (compression ratio: 95.13%)

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HEIF Compression

Last updated：2024-06-12 15:20:05

Overview

Image compression refers to reducing an image's size as much as possible without changing its quality, to reduce its cost for storage and traffic and speed up access.
COS launched the HEIF compression feature based on CI to convert images into HEIF format that offers an ultra-high compression ratio. HEIF offers over 80% smaller file sizes at the same quality compared with JPG. iOS has adopted HEIF as the default image format, and Android P has native support for this format.

Restrictions

Format: Images in JPG, PNG, BMP, WebP, TPG, AVIF, or other formats can be converted into HEIF.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

Prerequisites

To use HEIF compression, enable the image advanced compression feature for your bucket on the bucket's configuration page. For more information, please see Setting Image Advanced Compression.

How to Use

COS uses the **imageMogr2** API of CI to provide HEIF compression service.
An image can be processed:
Upon download
Upon upload
In cloud
Note:

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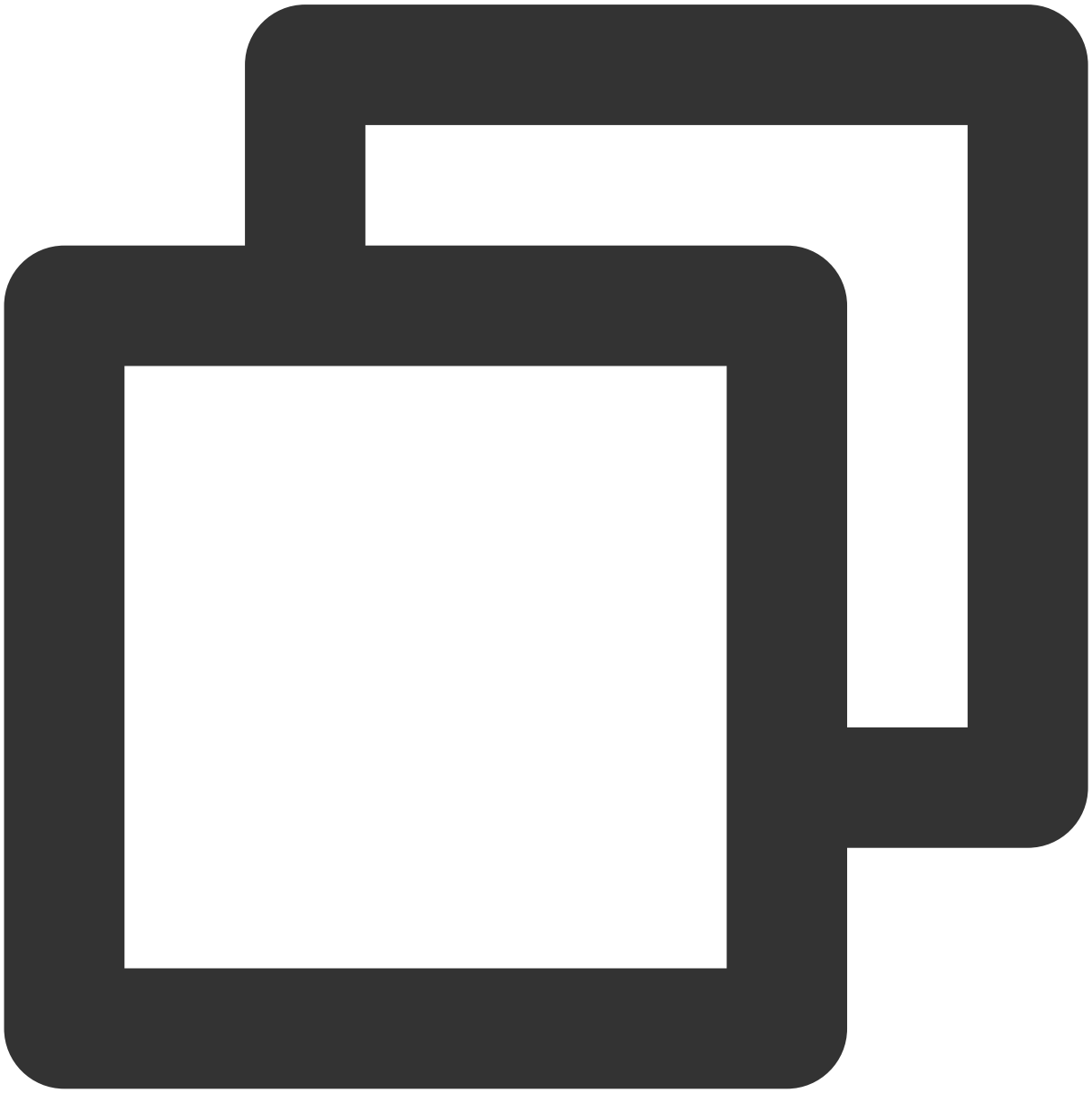
HEIF compression is billed at image advanced compression rates by CI. For detailed pricing, please see the image processing prices of CI.

API Format

1. Processing upon download



```
download_url?imageMogr2/format/heif
```

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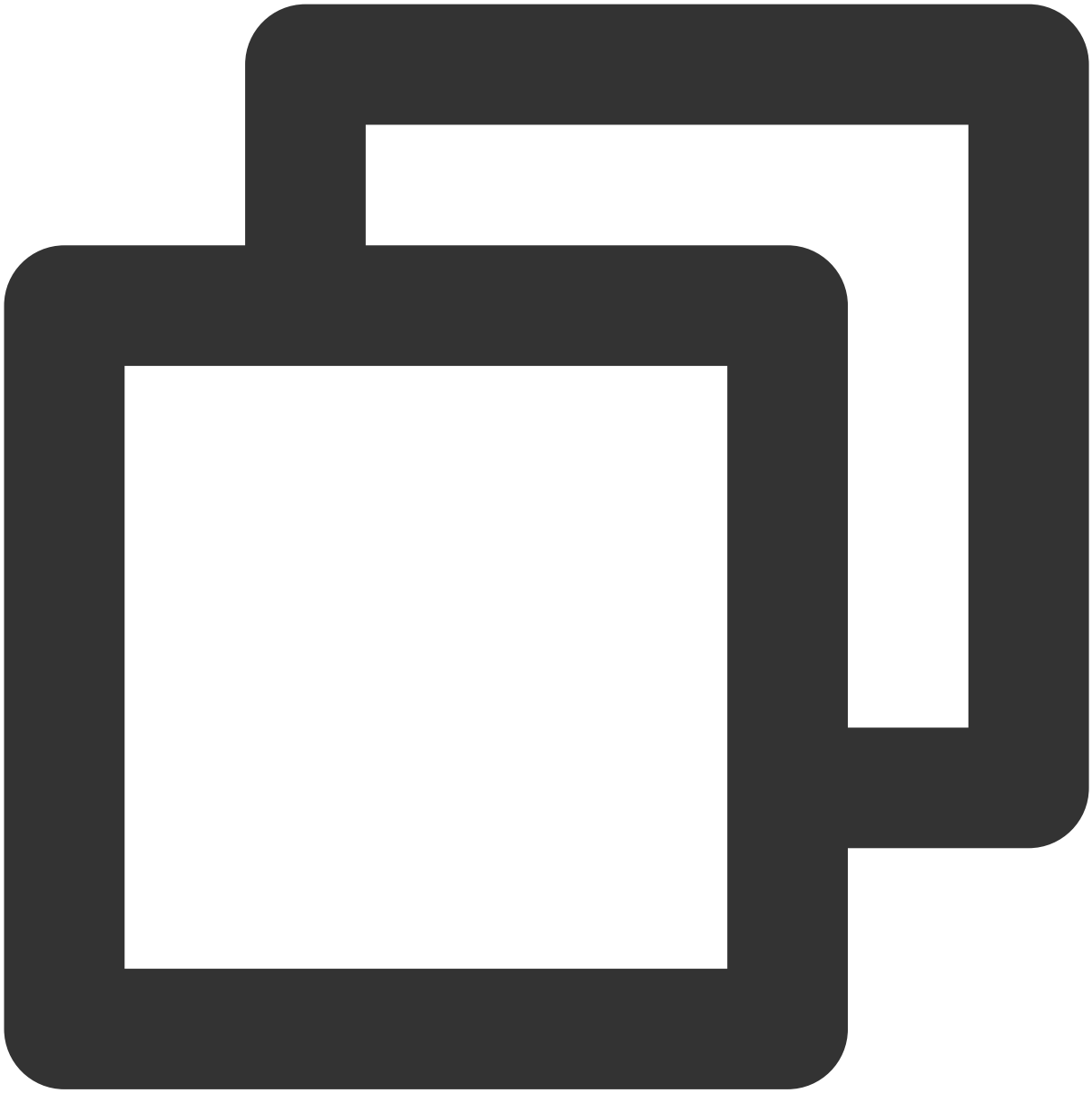
2. Processing upon upload



```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
```

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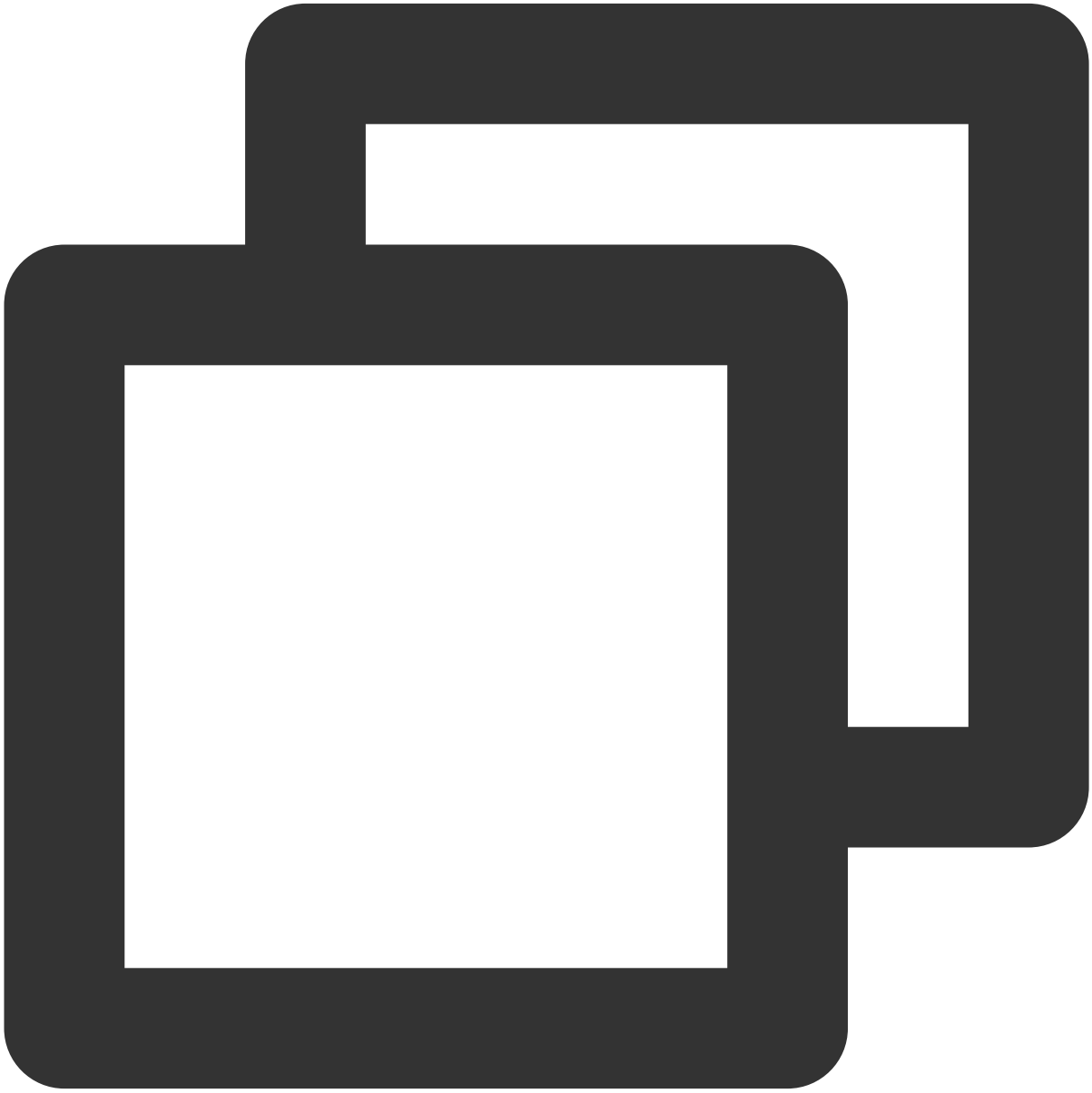
```
    "rule": "imageMogr2/format/heif"
}]
}
```

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
```

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```
Pic-Operations:
{
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/heif"
}]
}
```

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, use **Processing upon upload** or **Processing in-cloud data** instead.

Parameters

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/format/<Format>	Compression format, which is `heif`

Examples

Assume that the input image is a 1,335.2 KB image in PNG format, as shown below:

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You can convert the image into HEIF format using the following URL:

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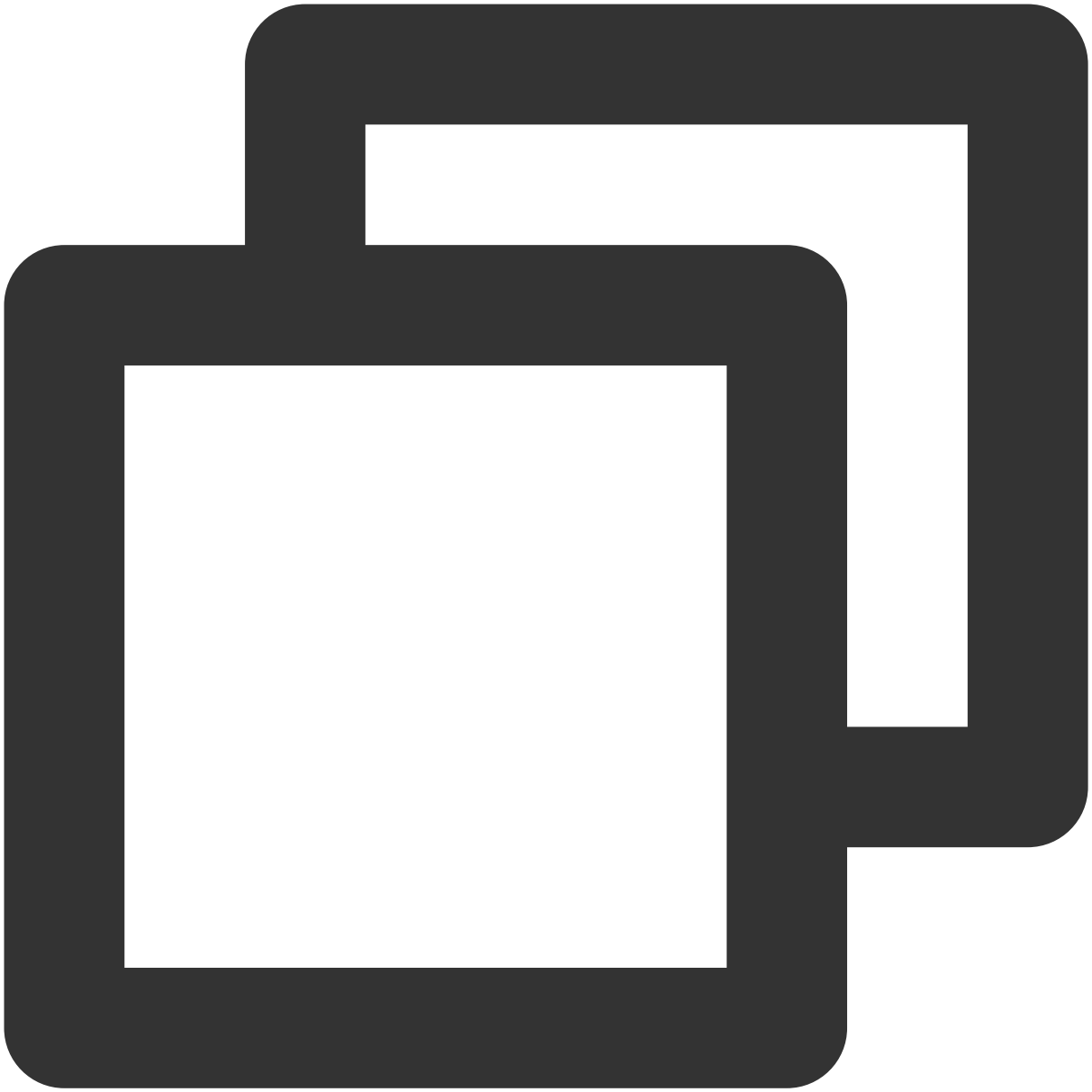

```
http://example-1258125638.cos.ap-shanghai.myqcloud.com/sample.png?imageMogr2/format
```

Compression ratio comparison

Format	Image Size
PNG (input image)	1,335.2 KB
HEIF	52.87 KB (compression ratio: 96.0%)

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TPG Compression

Last updated：2024-06-12 15:20:05

Feature Overview

Image compression is the process of downsizing an image as much as possible without sacrificing quality so that it can be stored at a lower cost and accessed more quickly.
COS launched the TPG compression feature based on CI to convert images into TPG format, a Tencent-developed format with animated image support. Currently, products such as QQ Browser and Qzone have TPG support by default. TPG offers over 90% smaller file sizes at the same quality compared with GIF, and over 50% smaller file sizes compared with PNG.

Restrictions

Format: Images in JPG, PNG, BMP, GIF, WebP, HEIF, AVIF, or other formats can be converted into TPG.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

Prerequisites

To use TPG compression, enable the image advanced compression feature for your bucket on the bucket's configuration page. For more information, please see Setting Image Advanced Compression.
To use the TPG format, ensure that **the environment where images are loaded supports TPG decoding**.
Tencent Cloud CI provides the TPG decoder-integrated SDKs for iOS, Android, and Windows clients to facilitate quick integration with TPG.

Directions

COS uses the **imageMogr2** API of CI to provide the TPG compression feature.
An image can be processed:
Upon download

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Upon upload

In cloud

Note:

TPG Compression is charged by CI at image advanced compression rates. For detailed pricing, see Image Processing Fees.

API Format

1. Processing upon download

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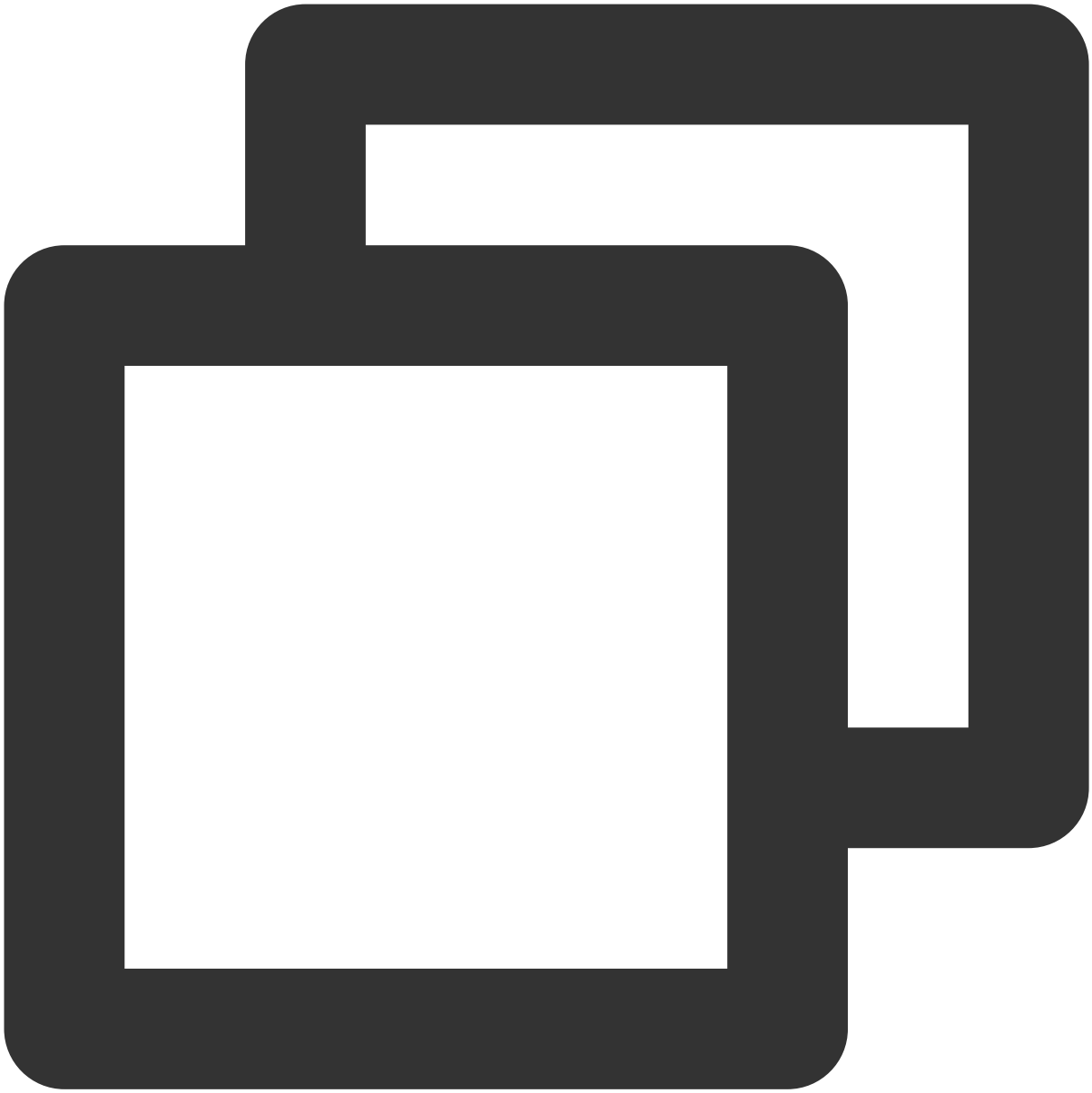

```
GET /<ObjectKey>?imageMogr2/format/tpg HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

2. Processing upon upload

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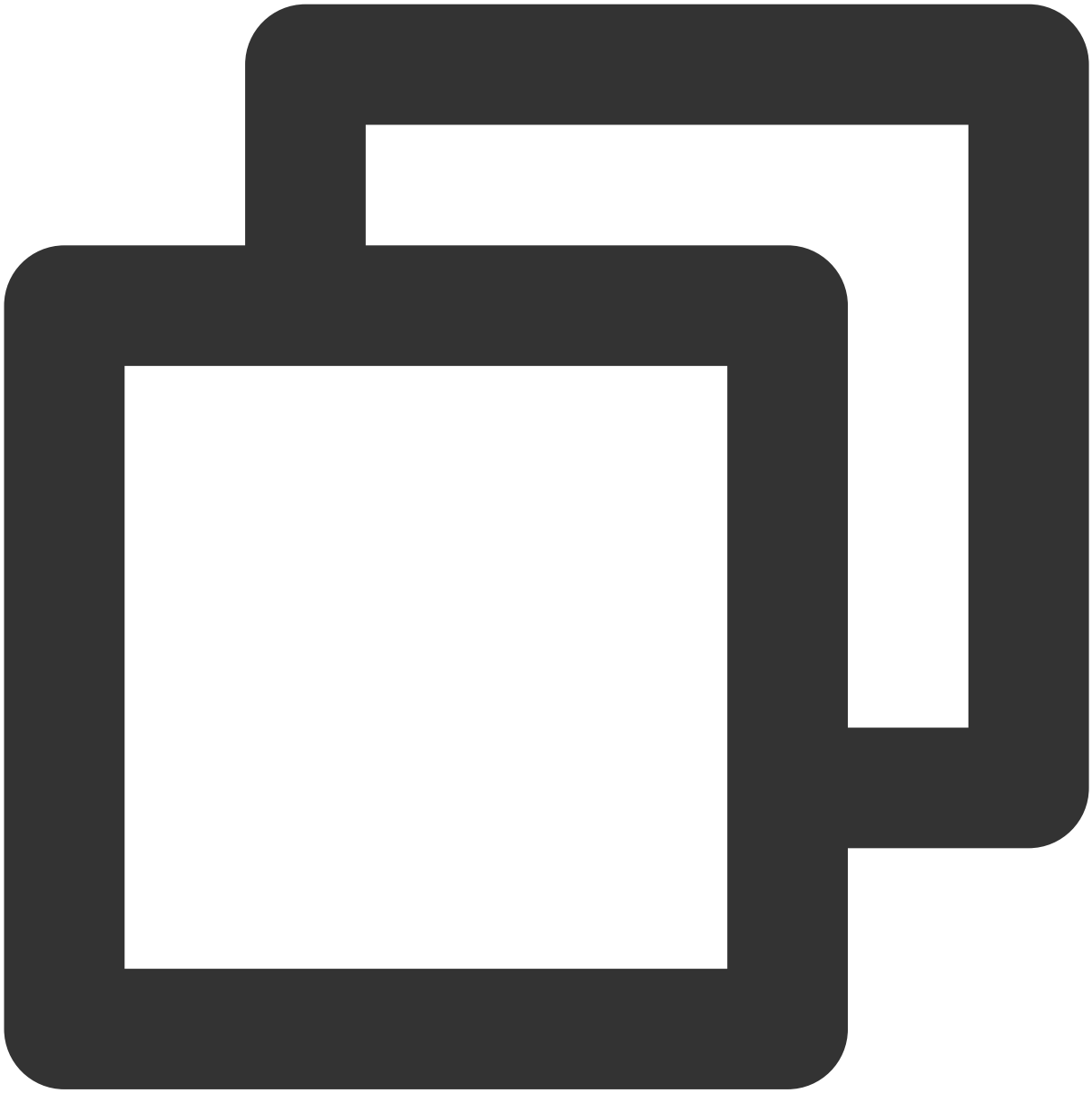

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/tpg"
}]
```

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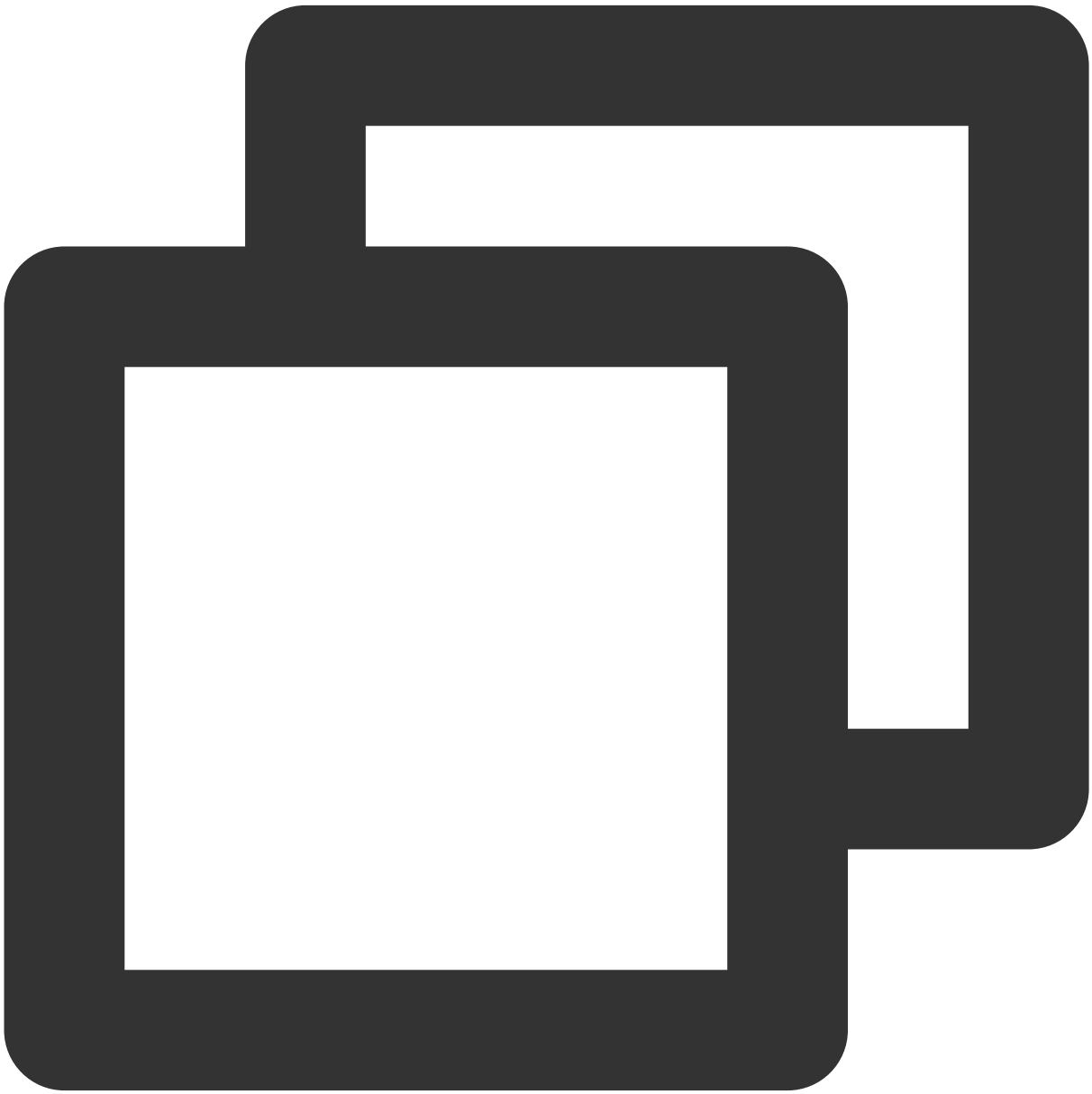
```
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
```

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```
Authorization: Auth String
Pic-Operations:
{
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/tpg"
}]
}
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Parameters

Parameter	Description
download_url	URL of the input image, formatted as `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`
/format/<Format>	Compression format, which is `tpg`

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, use **Processing upon upload** or **Processing in-cloud data** instead.

Assume that the input image is a 1,335.2 KB image in PNG format, as shown below:

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You can convert the image into TPG format by using the following URL:

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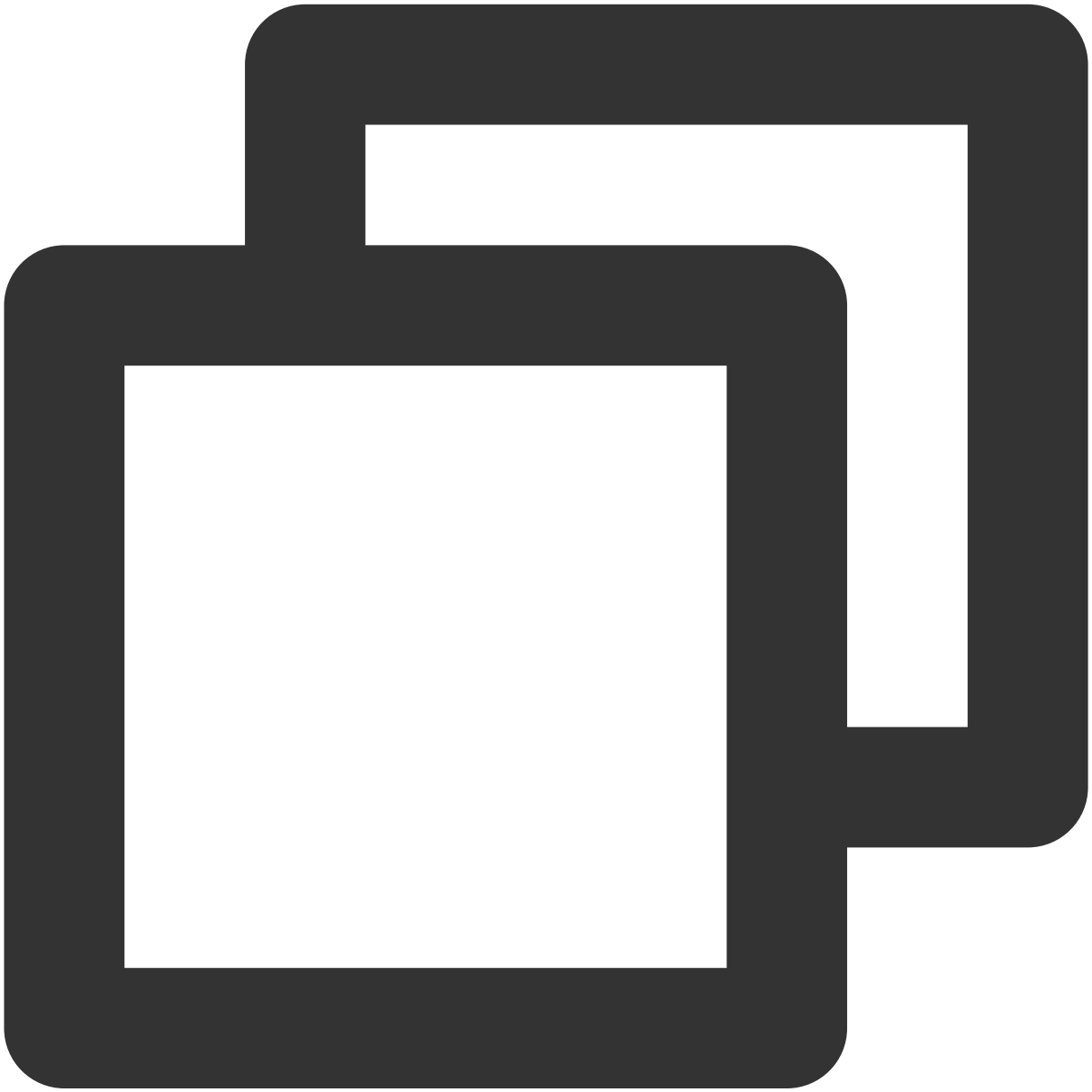

```
http://example-1258125638.cos.ap-shanghai.myqcloud.com/sample.png?imageMogr2/format
```

Compression ratio comparison

Format	Image Size
PNG (input image)	1,335.2 KB
TPG	36.67 KB (compression ratio: 97.3%)

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AVIF Compression

Last updated：2024-06-12 15:20:05

Feature Overview

Image compression is the process of downsizing an image as much as possible without sacrificing quality so that it can be stored at a lower cost and accessed more quickly.
COS launched the AVIF compression feature based on CI to convert images into AVIF format, which is a brand-new image format that uses AV1 compression algorithms. It was first introduced by Netflix in February 2020 and has supported browsers such as Chrome and Firefox.

Restrictions

Format: Images in JPG, PNG, BMP, GIF, WebP, TPG, HEIF, or other formats can be converted into AVIF.
Size: The input image cannot be larger than 32 MB, with its width and height not exceeding 30,000 pixels, and the total number of pixels not exceeding 250 million. The width and height of the output image cannot exceed 9,999 pixels. For an input animated image, the total number of pixels (Width x Height x Number of frames) cannot exceed 250 million pixels.
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

Prerequisites

To use AVIF compression, enable the image advanced compression feature for your bucket on the bucket's configuration page. For more information, see Setting Image Advanced Compression.

Directions

COS uses the **imageMogr2** API of CI to provide AVIF compression service.
An image can be processed:
Upon download
Upon upload
In cloud
Note:

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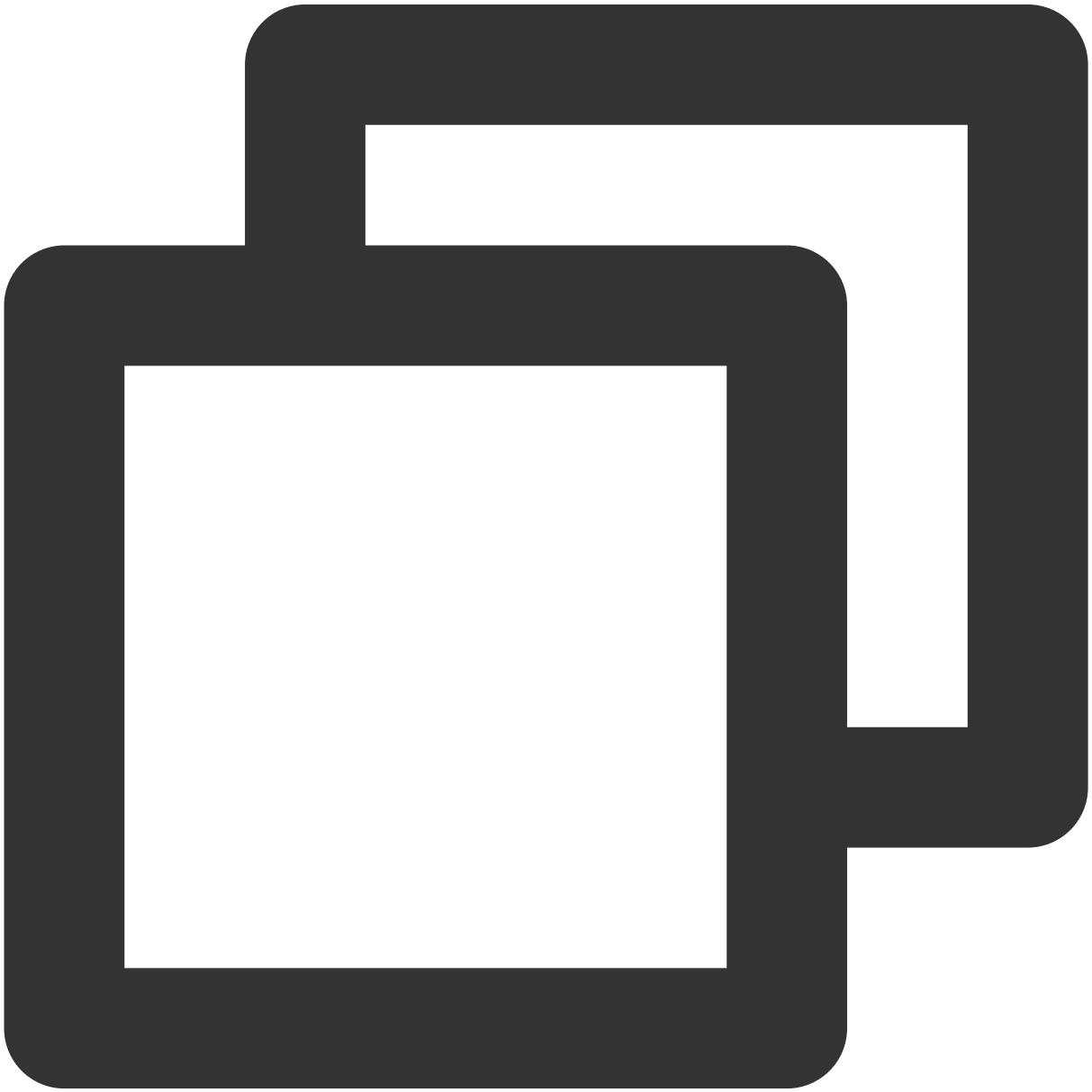
AVIF Compression is charged by CI at image advanced compression rates. For detailed pricing, see Image Processing Fees.

API Format

1. Processing upon download



```
GET /<ObjectKey>?imageMogr2/format/avif HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
```

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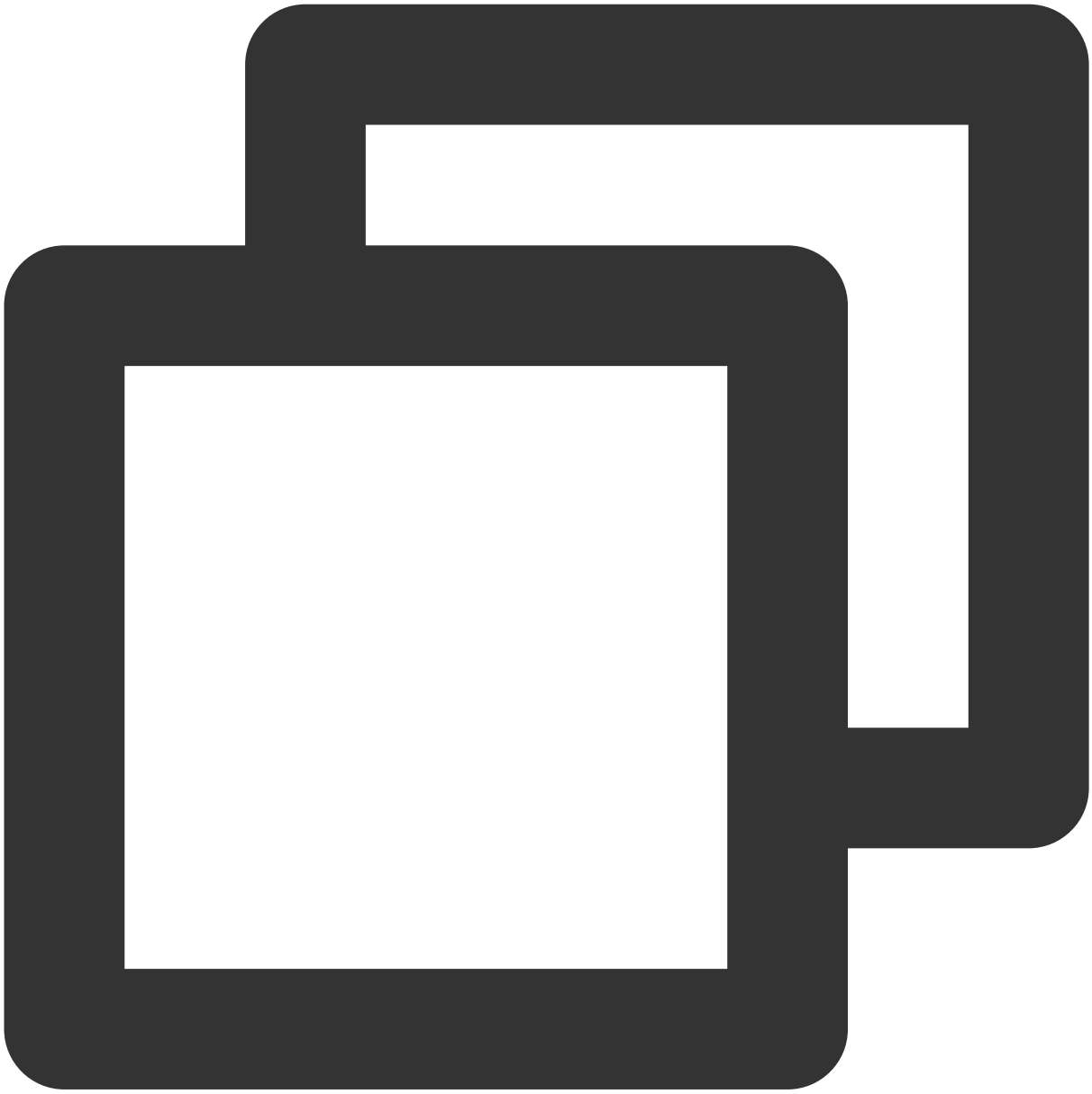
```
Date: <GMT Date>
Authorization: <Auth String>
```

2. Processing upon upload



```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
```

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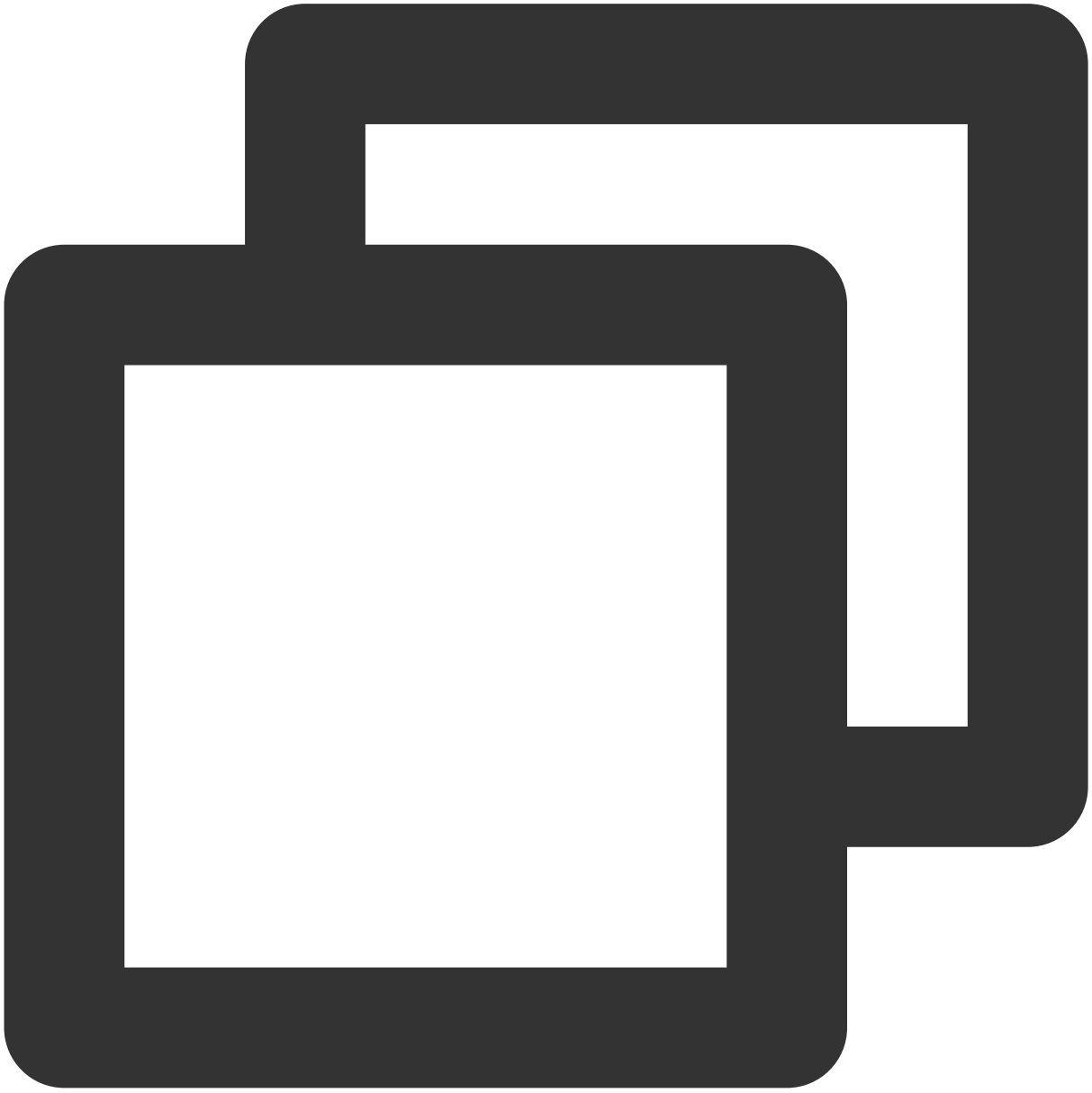
```
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/avif"
}]
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data



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```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
Authorization: Auth String
Pic-Operations:
{
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/avif"
}]
}
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Parameters

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg`.
/format/<Format>	Compression format, which is `avif`

Examples

Note:

Processing upon download is used as an example here, which does not store the output image in a bucket. If you need to store the output image, use **Processing upon upload** or **Processing in-cloud data** instead.

Assume that the input image is a 1,335.2 KB image in PNG format, as shown below:

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You can convert the image into AVIF format using the following URL:

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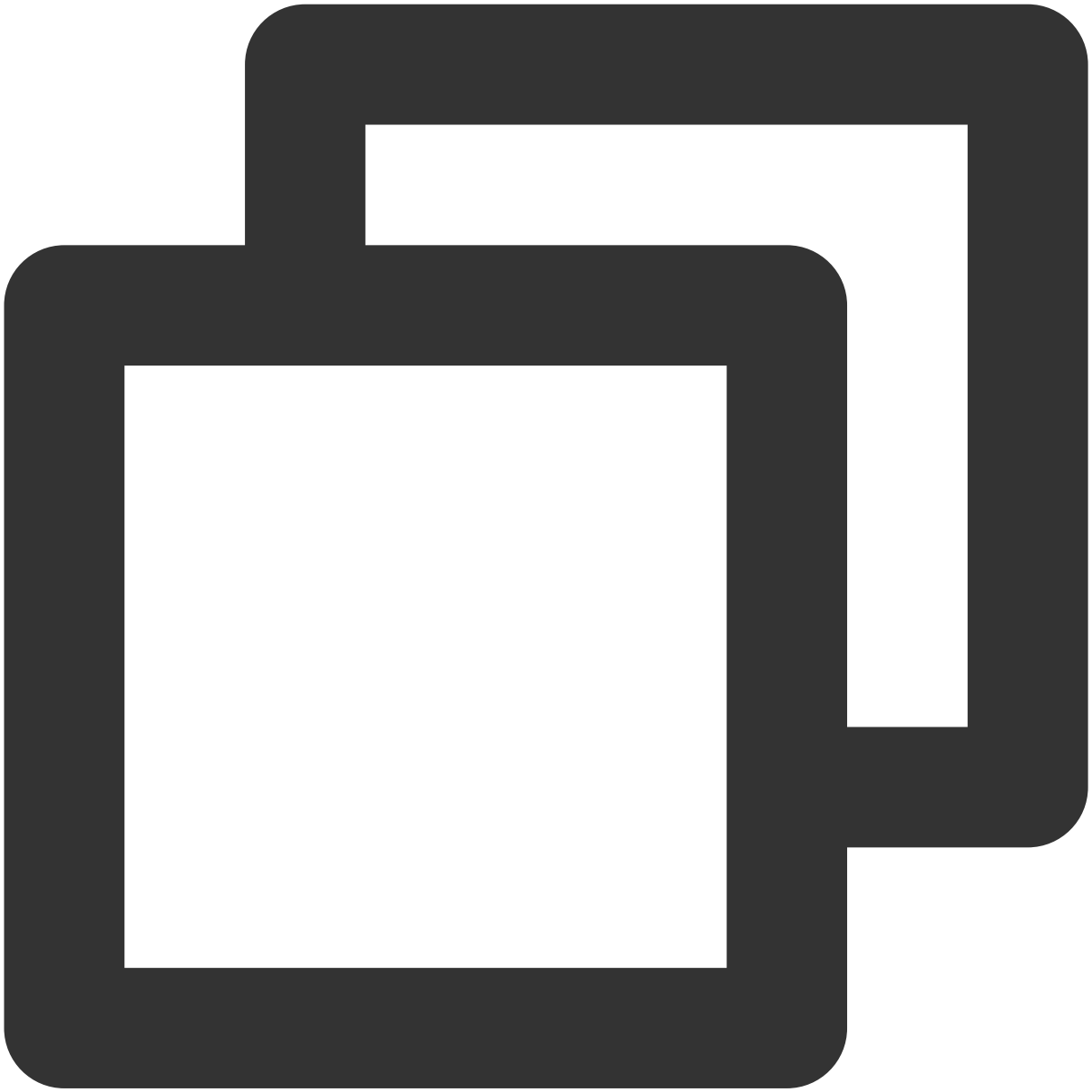

```
http://example-1258125638.cos.ap-shanghai.myqcloud.com/sample.png?imageMogr2/format
```

Compression ratio comparison

Format	Image Size
PNG (input image)	1,335.2 KB
AVIF	62.8 KB (compression ratio: 95.3%)

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SVG Compression

Last updated：2024-06-12 15:20:05

Feature Overview

Image compression is the process of downsizing an image as much as possible without sacrificing quality so that it can be stored at a lower cost and accessed more quickly.
Based on CI, COS provides the SVG compression feature, which can delete certain redundant information from an SVG file without compromising the display effect in order to downsize the file.

Restrictions

Format: Only SVG images can be used as the input.
Size: The input image cannot be larger than 32 MB.

Directions

COS provides the SVG compression feature using CI's `imageMogr2` API.
An image can be processed:
Upon download
Upon upload
In cloud
Note:
SVG Compression is charged by CI at image advanced compression rates. For detailed pricing, see Image Processing Fees.

API Format

1. Processing upon download

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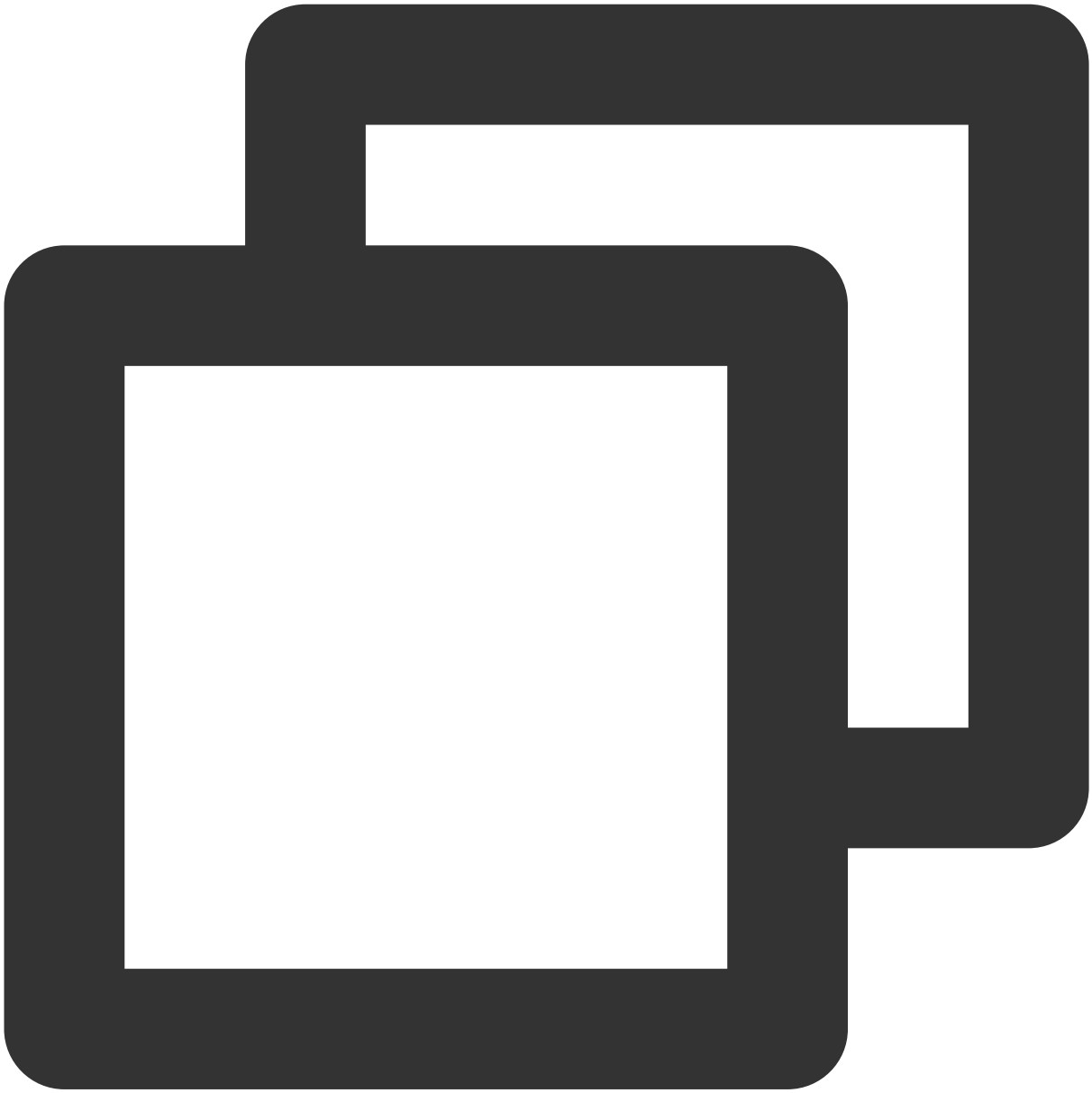

```
GET /<ObjectKey>?imageMogr2/format/svgc HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

2. Processing upon upload

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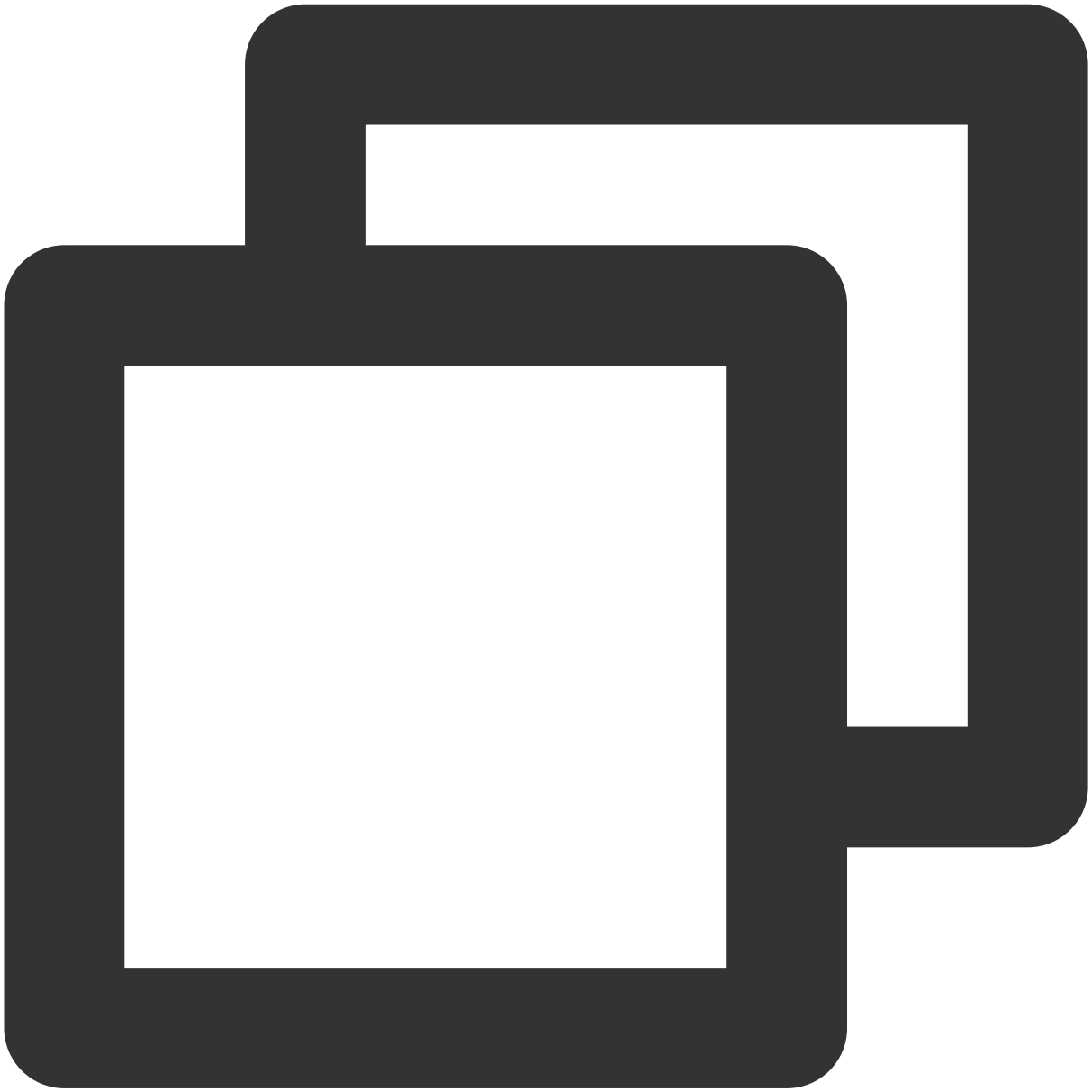

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations:
{
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/svgc"
}]
```

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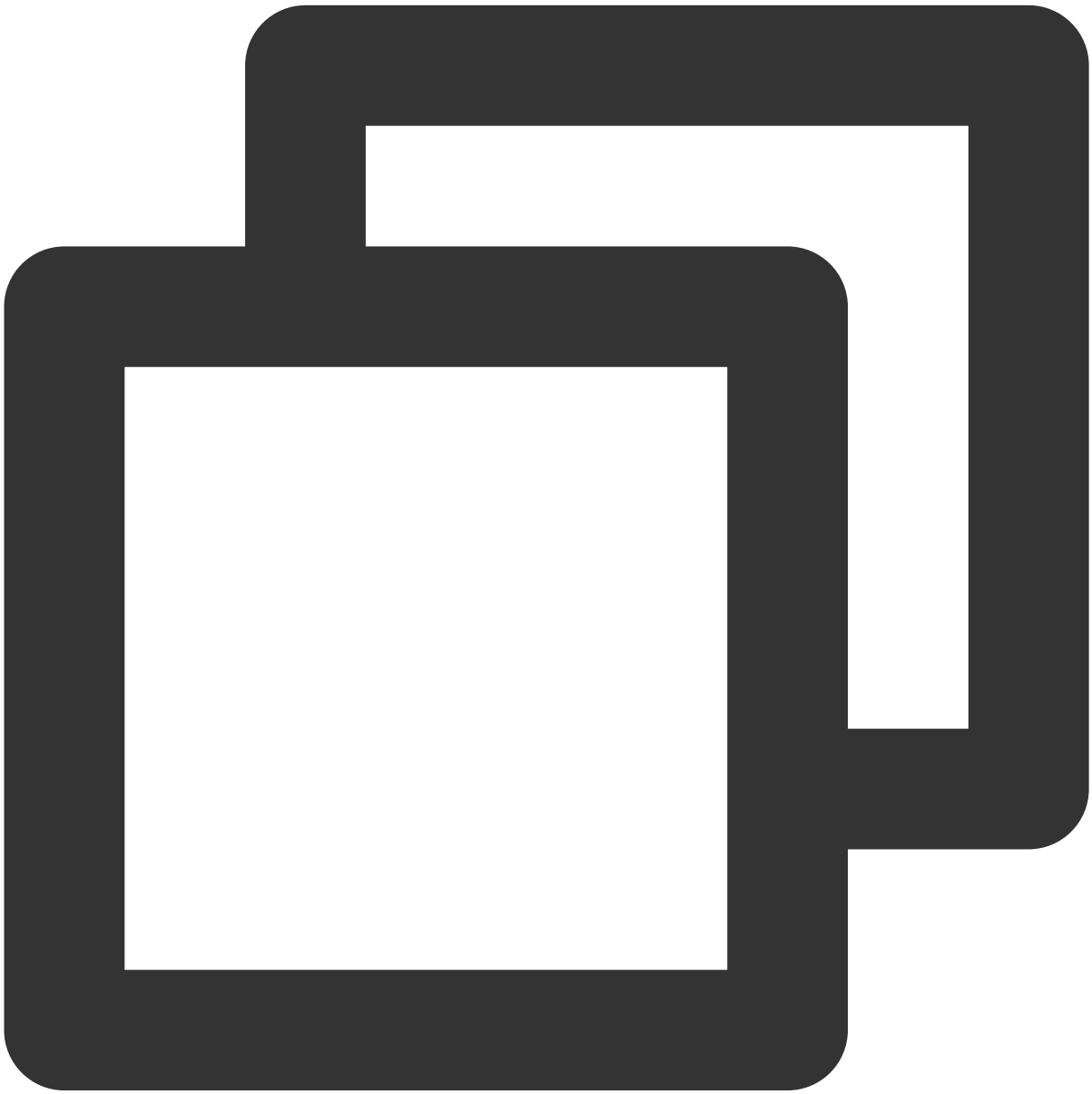
```
}
```

Note:

`Pic-Operations` is a JSON string. Its parameters are as described in Persistent Image Processing.

3. Processing in-cloud data



```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Content-length: Size
```

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```
Authorization: Auth String
Pic-Operations:
{
"is_pic_info": 1,
"rules": [{
    "fileid": "exampleobject",
    "rule": "imageMogr2/format/svgc"
}]
}
```

Note:

Authorization: Auth String. For more information, see Request Signature.

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Parameters

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg` .
/format/<Format>	Compression format, which is `svgc`

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Blind Watermark

Last updated：2024-06-12 15:20:05

Feature Overview

Blind watermarking is a brand-new watermarking feature based on Tencent Cloud CI. It allows you to add a watermark to the input image information without displaying the watermark or significantly affecting the image quality. If you suspect that your image has been stolen, you can extract the blind watermark from the suspected image to check whether the image belongs to you.
You can call this API to:
Add a blind watermark to an image upon upload.
Add a blind watermark to an image upon download.
Add a blind watermark to an image stored in COS.
You can also extract the blind watermark from a watermarked image.
Note:
Currently, you cannot add a blind watermark to animated images such as GIF.
Both the width and height of the image watermark must not be greater than 1/8 of the input image.
You need to choose a white watermark with a black background for the effect of blind watermarking.
Text watermarks can contain digits and letters.
Blind watermarking protects your images against various theft attacks such as cropping, smudging, and color change. The anti-theft effect is affected by the size of the input image and the attack intensity. For details, please submit a ticket.
Blind watermarking is supported in all regions of CI. For more information, see Regions and Domain Names.

Adding Blind Watermarks

Request 1: adding a blind watermark upon upload

The request is the same as that in a PUT Object call, except that you need to add the image processing parameter `Pic-Operations` to the request header and use blind watermarking parameters.

Sample request

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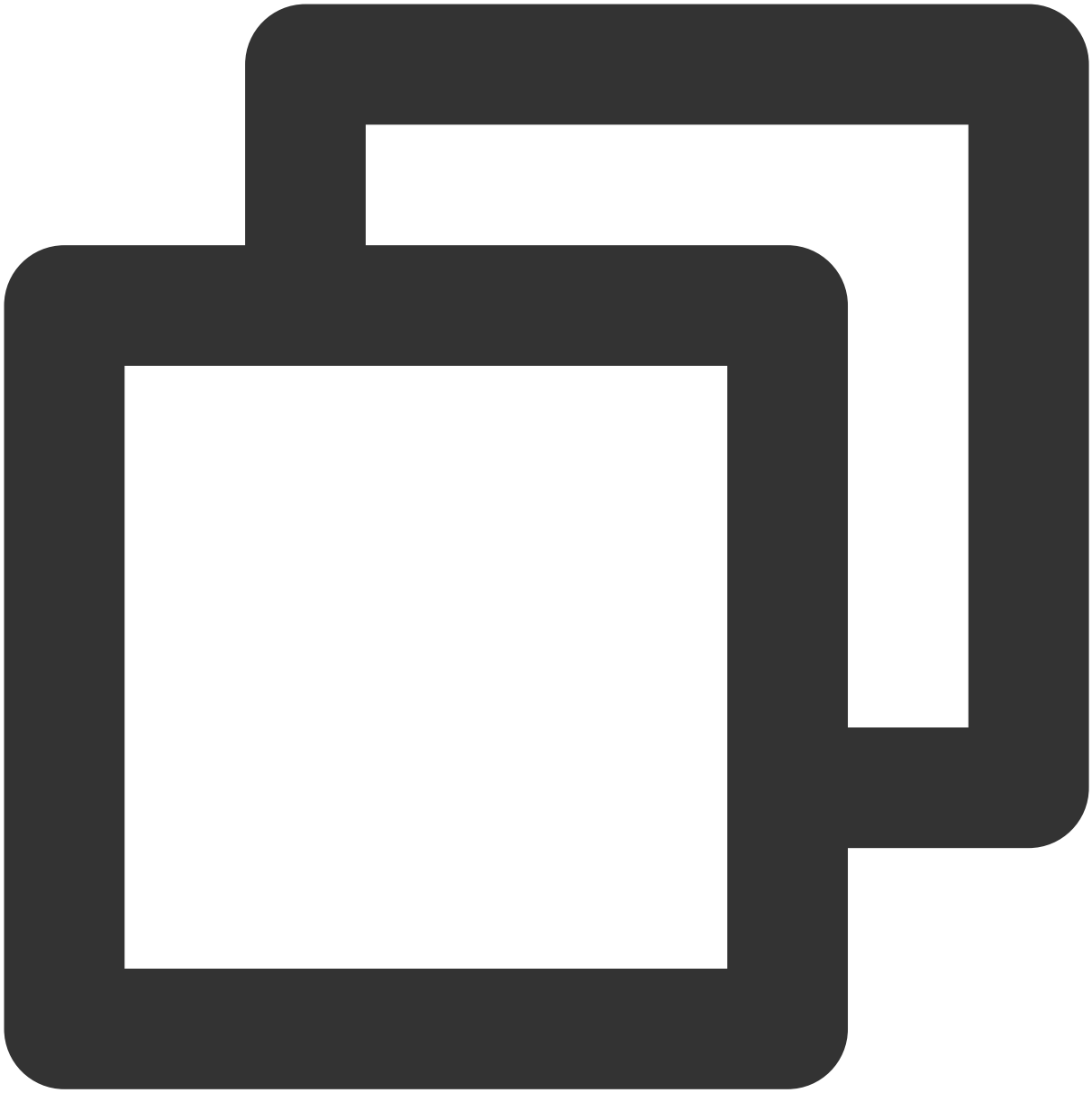

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations: <PicOperations>

[Object Content]
```

Note:

Authorization: Auth String (See Request Signature for details.)

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Request headers

This API uses Common Request Headers.

Add the image processing parameter `Pic-Operations` (a JSON string) to the request header. Its parameters are as follows:

Parameter	Description	Type	Required
is_pic_info	Whether to return the input image information `0` (default): no `1` : yes	Int	No
rules	Processing rules (up to five rules are supported). Each rule corresponds to one processing result. If this parameter is not specified, images will not be processed.	Array	No

Parameters of `rules` (a JSON array) are as follows:

Parameter	Description	Type	Required
bucket	Name of the destination bucket to store the results, formatted as `BucketName-APPID` . If this parameter is not specified, the results will be stored in the current bucket.	String	No
fileid	The path and name of the output file The rules for setting this parameter are as follows (assume that the input file is stored in `/p1/test1.jpg`): A value starting with a slash (/) indicates an absolute path. For example, if fileid is set to /p2/test2.jpg, the test2.jpg file will be stored in the p2 folder. A value not starting with a slash indicates a relative path. For example, if fileid is set to p2/test2.jpg, a folder named p2 is created in the p1 folder, and the test2.jpg file will be stored in the p2 folder. Note: Do not end the value with a slash. Otherwise, an empty filename will be generated.	String	Yes
rule	Processing parameters. For more information, see the image processing API. To process an image using a specified style, the value must start with `style/` with the style name followed. For example, if the style name is `test` , the value of `rule` should be `style/test` .	String	Yes

To use blind watermarking, add the watermarking parameter `watermark` to `rule` as follows:

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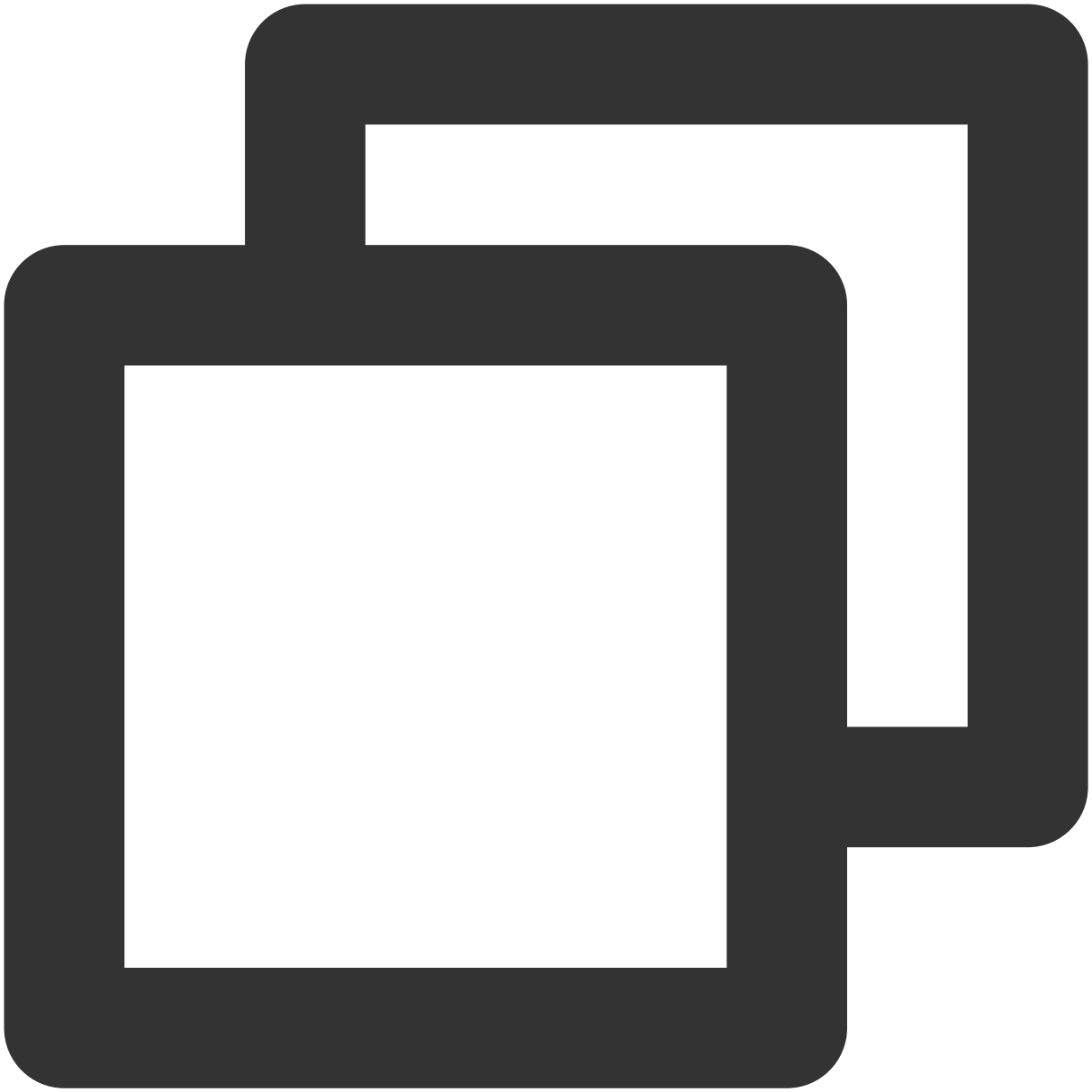

```
watermark/3/type/<type>/image/<imageUrl>/text/<text>/level/<level>
```

The parameters are as follows:

Parameter	Description	Type	Required
type	Blind watermarking type. Valid values: `1` (semi-blind watermarking), `2` (perfectly blind watermarking), `3` (text blind watermarking)	Int	Yes
image	URL of the blind image watermark, which must be URL-safe Base64-encoded. This parameter is required if `type` is set to `1` or `2`, and	String	No

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	does not take effect if `type` is set to `3`. The image watermark must:
	1. Be stored in the same bucket as the input image.
	2. Have a URL that starts with http://. Note that "http://" cannot be omitted or changed to "https://". For example, the following watermark URLs are invalid:
	`examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/watermark.png`
	`https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/watermark.png`		

text	Text watermark, which must be URL-safe Base64-encoded. This parameter is required if `type` is set to `3` and does not take effect if `type` is set to `1` or `2`.	String	No
level	Perfectly blind watermarking level, which only takes effect when `type` is set to `2`. Valid values: `1` (default), `2`, `3`. The larger the value, the better the watermarking effects.	Int	No

Request parameters

This API has no request parameter.

Request body

The request body of this API is the content of the input image.

Response

Response headers

This API only returns Common Response Headers.

Response body

Parameters in the response body are as follows:

Parameter	Description	Type
UploadResult	Upload results	Container

Content of `UploadResult`:

Parameter	Description	Type
OriginalInfo	Information about the input image	Container
ProcessResults	Processing results	Container

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Content of `OriginalInfo` :

Parameter	Description	Type
Key	Name of the input image	String
Location	Image location	String
ImageInfo	Information about the input image	Container

Content of `ImageInfo` :

Parameter	Description	Type
Format	Image format	String
Width	Image width	Int
Height	Image height	Int
Quality	Image quality	Int
Ave	Image average hue	String
Orientation	Image rotation angle	Int

Content of `ProcessResults` :

Parameter	Description	Type
Object	Processing results of each image	Container

Content of `Object` :

Parameter	Description	Type
Key	Filename	String
Location	Image location	String
Format	Image format	String
Width	Image width	Int
Height	Image height	Int
Size	Image size	Int

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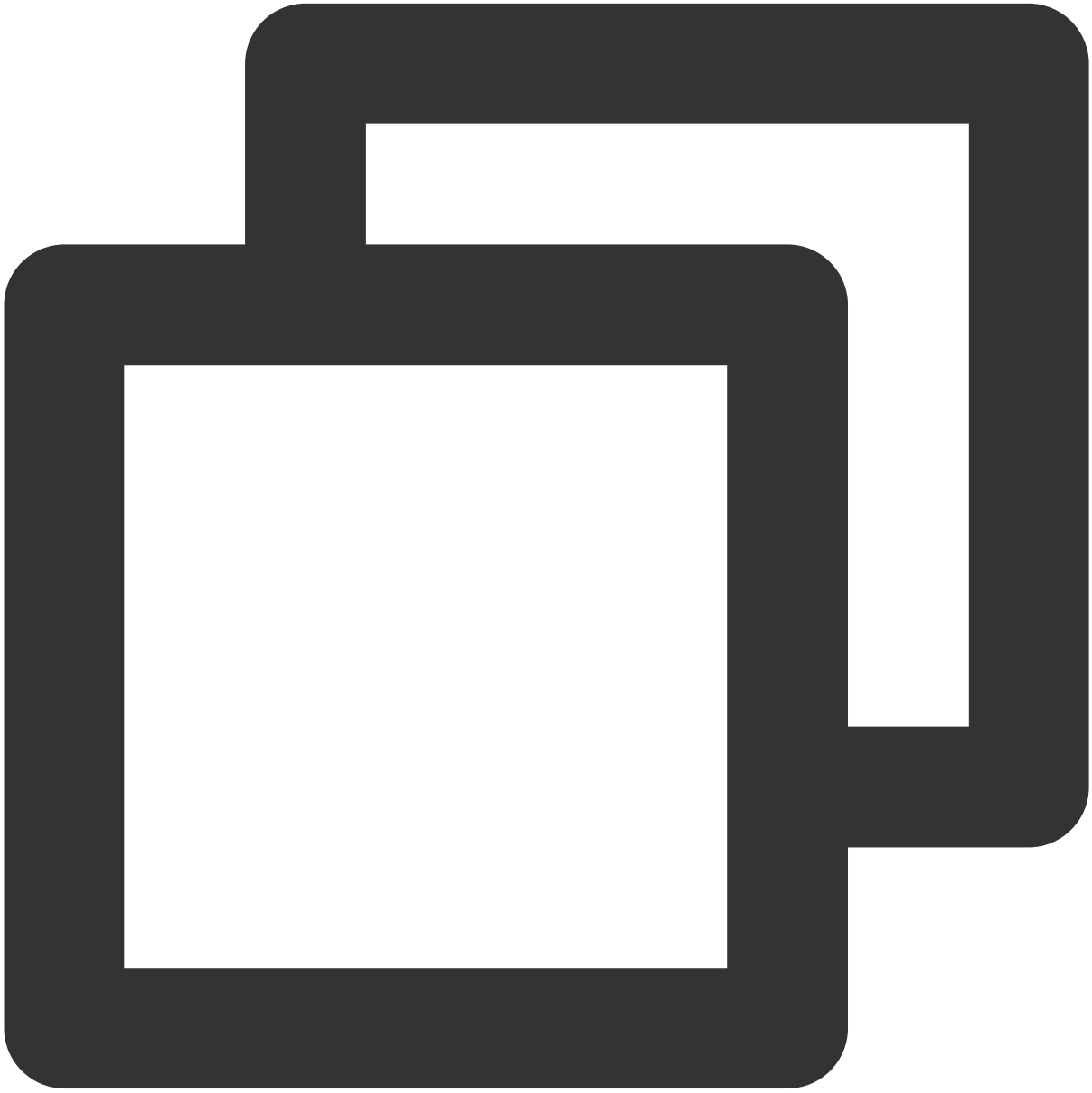
Quality	Image quality	Int

Example

Request



```
PUT /exampleobject HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Date: Tue, 03 Apr 2018 09:06:15 GMT
Authorization:XXXXXXXXXXXX
```

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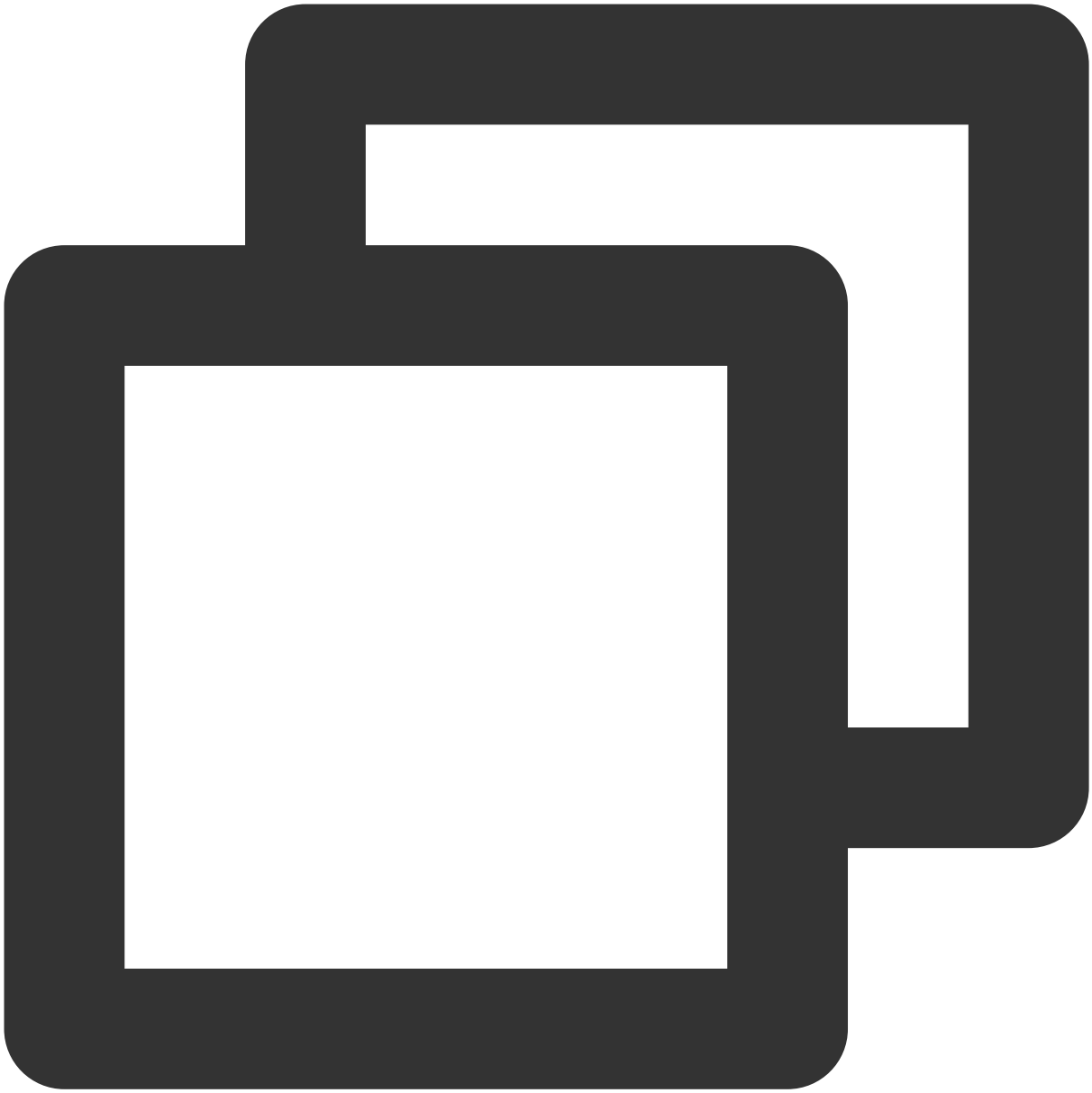
```
Pic-Operations:
{
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject",
        "rule": "watermark/3/type/1/image/aHR0cDovL2V4YW1wbGVzLTEyNTEwMDAwMDQucGljc
    }]
}
Content-Length: 64

[Object Content]
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
Status: 200 OK
x-cos-request-id: NWFjMzQ0MDZfOTBmYTUwXzZkZV8z****

<UploadResult>
          <OriginalInfo>
              <Key>exampleobject</Key>
              <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/exampl
```

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```
                <ImageInfo>
                     <Format>JPEG</Format>
                     <Width>640</Width>
                     <Height>427</Height>
                     <Quality>100</Quality>
                     <Ave>0xa18454</Ave>
                     <Orientation>1</Orientation>
                </ImageInfo>
            </OriginalInfo>
            <ProcessResults>
                <Object>
                     <Key>exampleobject</Key>
                     <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/e
                     <Format>png</Format>
                     <Width>640</Width>
                     <Height>427</Height>
                     <Size>463092</Size>
                     <Quality>100</Quality>
                </Object>
            </ProcessResults>
 </UploadResult>
```

Note:

[Object Content] in the request body is the binary string of the input image, and `imageUrl` in `rule` in the request header `Pic-Operations` is the URL of the image watermark.

`Location` in `ProcessResults` in the response body is the URL of the image with a blind watermark.

Request 2: adding a blind watermark upon download

You can add a blind watermark upon download in the same way as adding a regular watermark, except that you need to use the `watermark` parameter after the image URL.

Sample request

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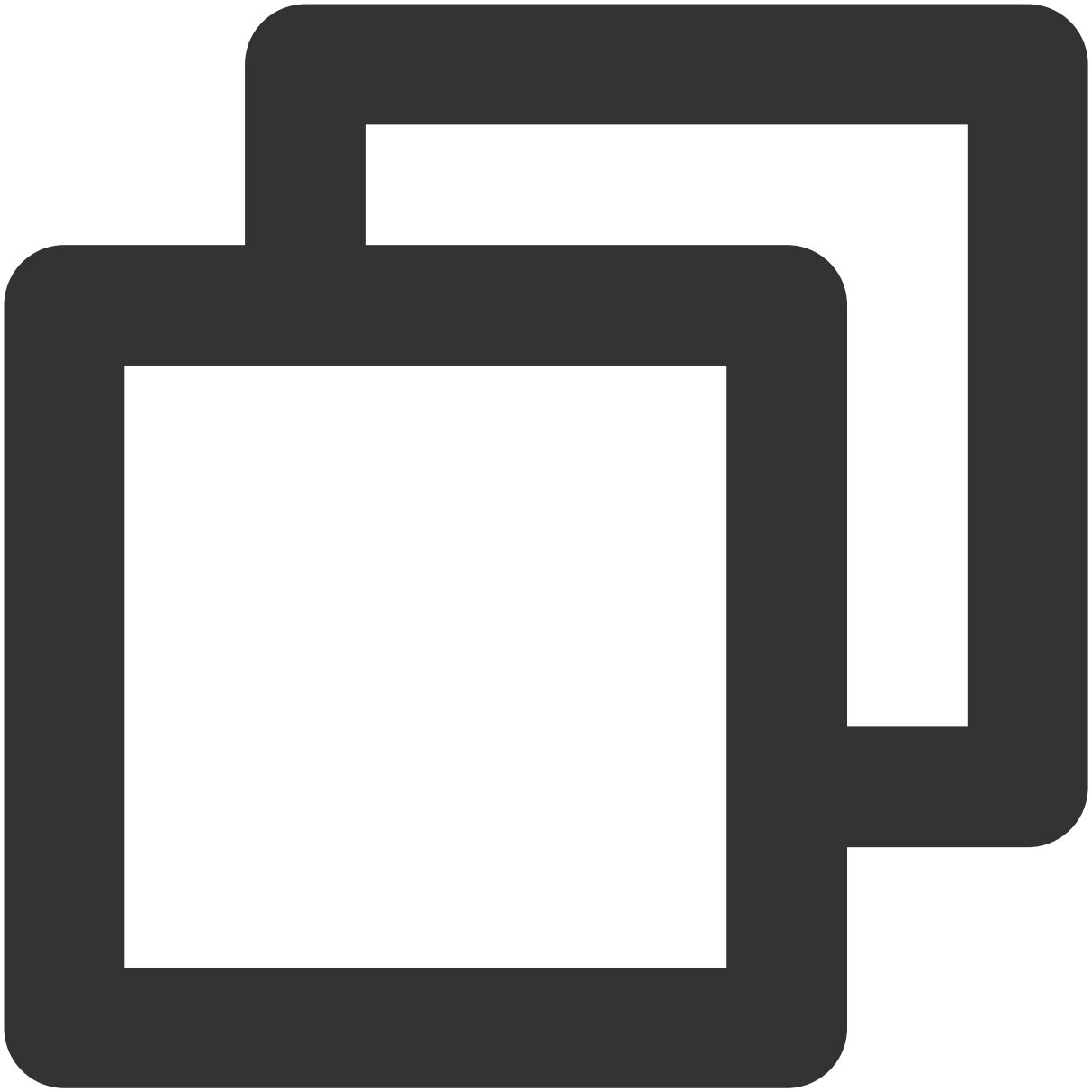

```
GET /<ObjectKey>?watermark/3/type/<type>/image/<imageUrl>/text/<text> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Request parameters

The request parameters are as follows:

Parameter	Description	Type	Required

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download_url	URL of the input image, formatted as http(s):// `<BucketName-APPID>.cos.<Region>.myqcloud.com/<picture name>` . Example: `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpeg`	String	Yes
type	Blind watermarking type. Valid values: `1` (semi-blind watermarking), `2` (perfectly blind watermarking), `3` (text blind watermarking)	Int	Yes

image	URL of the blind image watermark, which must be URL-safe Base64-encoded. This parameter is required if `type` is set to `1` or `2` , and does not take effect if `type` is set to `3` . The image watermark must:
	1. Be stored in the same bucket as the input image.
	2. Have a URL that starts with http://. Note that "http://" cannot be omitted or changed to "https://". For example, the following watermark URLs are invalid:
	`examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/watermark.png`
	`https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/watermark.png`
		String	No

text	Text watermark, which must be URL-safe Base64-encoded. This parameter is required if `type` is set to `3` and does not take effect if `type` is set to `1` or `2` .	String	No
level	Perfectly blind watermarking level, which only takes effect when `type` is set to `2` . Valid values: `1` (default), `2` , `3` . The larger the value, the better the watermarking effects.	Int	No

Example

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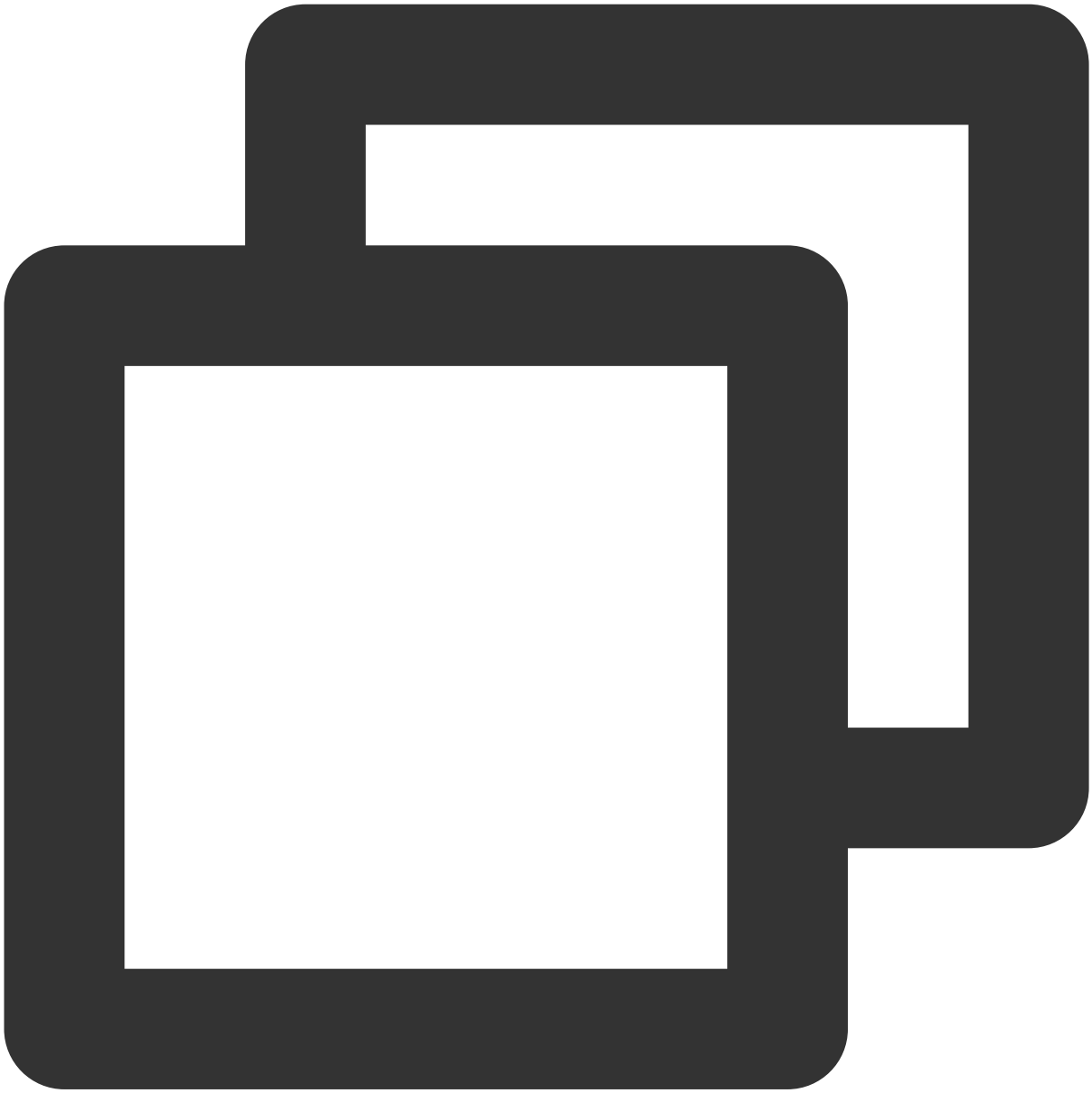

```
https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/sample.jpeg?watermark
```

Request 3: adding a blind watermark to an image stored in COS

You can call this API to add a blind watermark to an image stored in COS and save the result to COS.

Sample request

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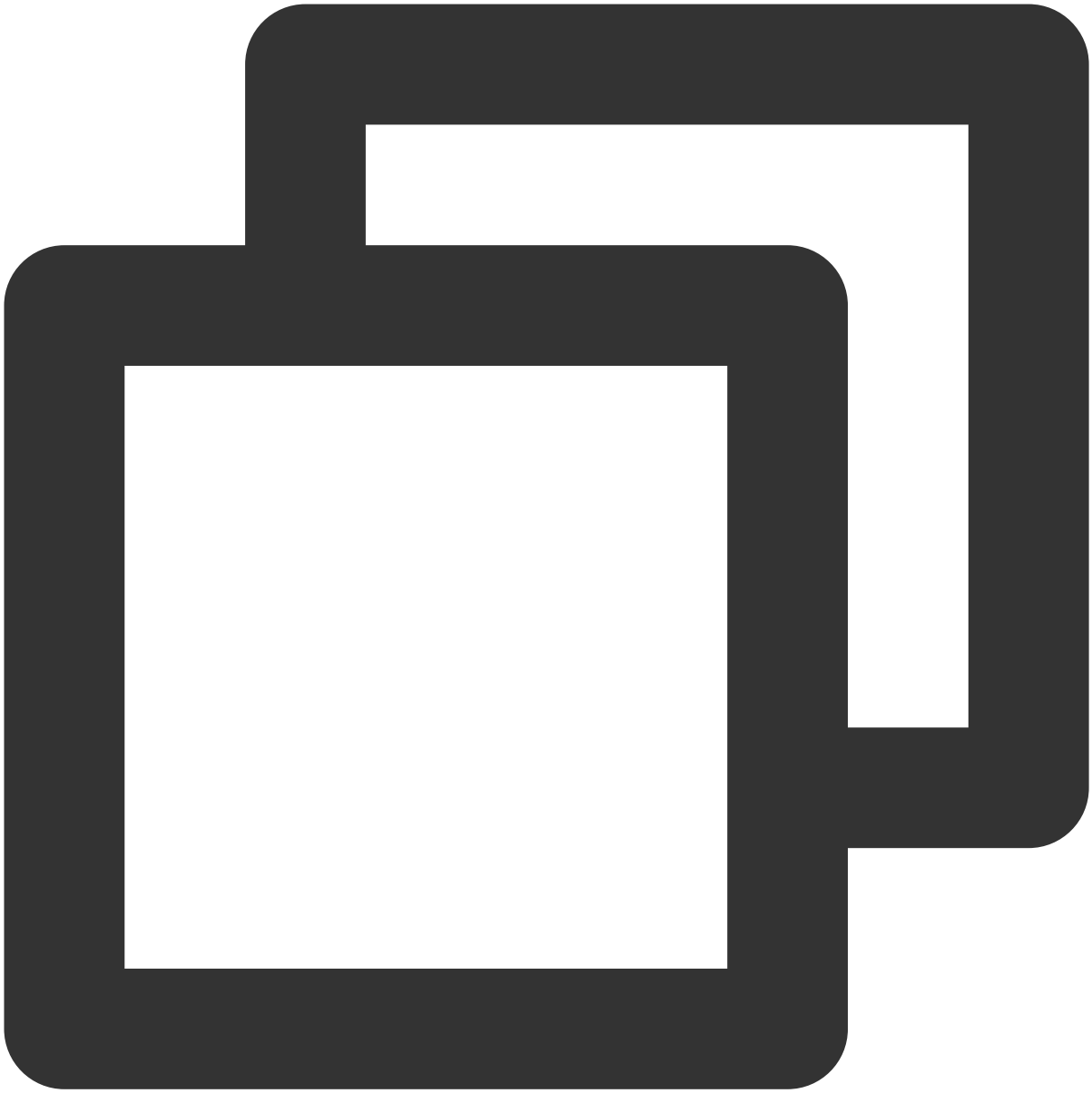

```
POST /<ObjectKey>?image_process HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
Pic-Operations: <PicOperations>
```

Note:

Authorization: Auth String (see Request Signature for more information).

Request headers

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This API uses Common Request Headers.

Add the image processing parameter `Pic-Operations` (a JSON string) to the request header. Its parameters are as follows:

Parameter	Description	Type	Required
is_pic_info	Whether to return the input image information `0` (default): no `1` : yes	Int	No
rules	Processing rules (up to five rules are supported). Each rule corresponds to one processing result. If this parameter is not specified, images will not be processed.	Array	No

Parameters of `rules` (a JSON array) are as follows:

Parameter	Description	Type	Required
bucket	Name of the destination bucket to store the results, formatted as `BucketName-APPID` . If this parameter is not specified, the results will be stored in the current bucket.	String	No
fileid	The path and name of the output file . The rules for setting this parameter are as follows (assume that the input file is stored in `/p1/test1.jpg`): 1. A value starting with a slash (/) indicates an absolute path. For example, if `fileid` is set to `/p2/test2.jpg` , the `test2.jpg` file will be stored in the `p2` folder. 2. A value not starting with a slash indicates a relative path. For example, if `fileid` is set to `p2/test2.jpg` , a folder named `p2` is created in the `p1` folder, and the `test2.jpg` file will be stored in the `p2` folder. 3. Note: Do not end the value with a slash. Otherwise, an empty filename will be generated.	String	Yes
rule	Processing parameters. For more information, see the image processing API. To process an image using a specified style, the value must start with `style/` with the style name followed. For example, if the style name is `test` , the value of `rule` should be `style/test` .	String	Yes

To use blind watermarking, add the watermarking parameter `watermark` to `rule` as follows:

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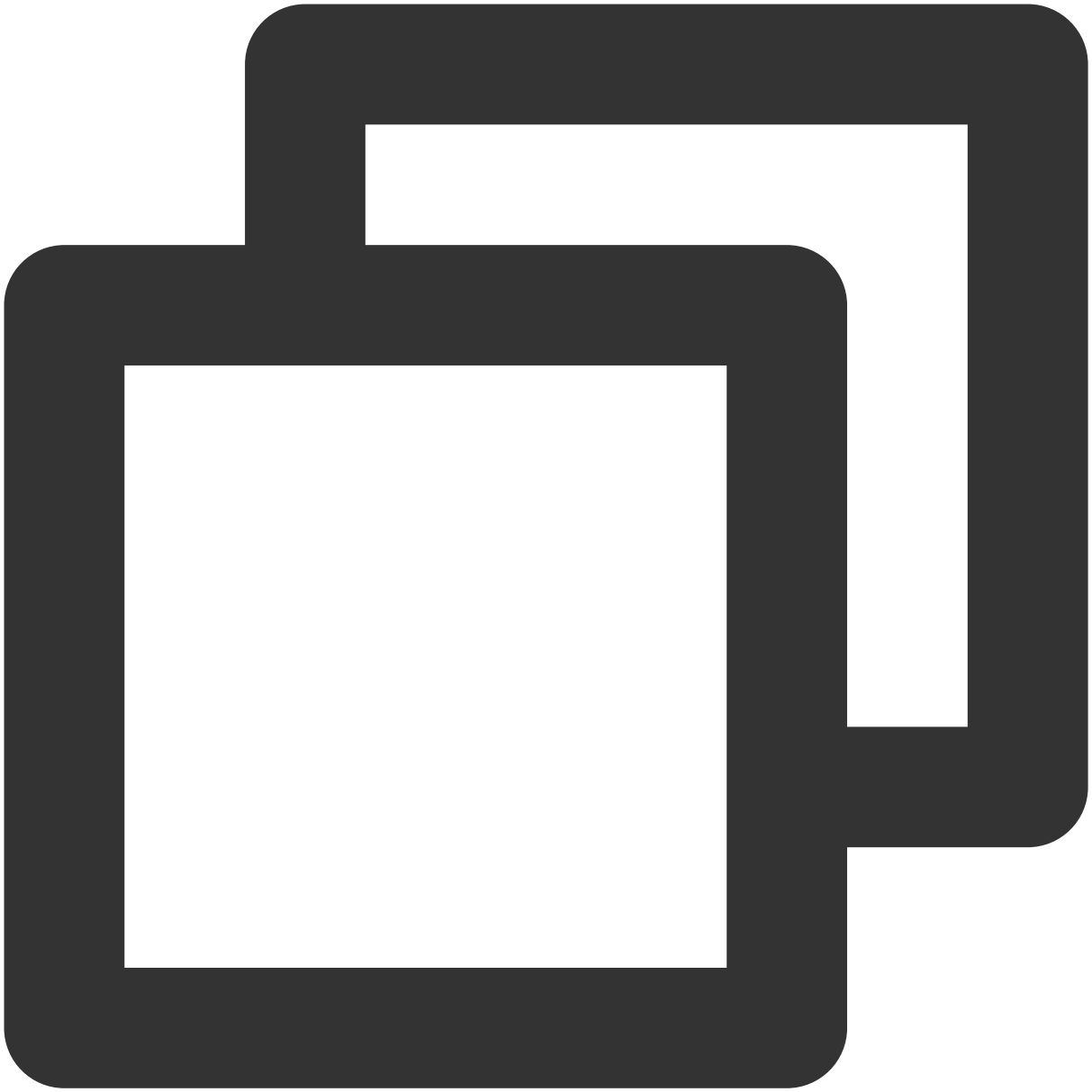

```
watermark/3/type/<type>/image/<imageUrl>/text/<text>/level/<level>
```

The parameters are as follows:

Parameter	Description	Type	Required
type	Blind watermarking type. Valid values: `1` (semi-blind watermarking), `2` (perfectly blind watermarking), `3` (text blind watermarking)	Int	Yes
image	URL of the blind image watermark, which must be URL-safe Base64-encoded. This parameter is required if `type` is set to `1` or `2`, and	String	No

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	does not take effect if `type` is set to `3`. The image watermark must:
	1. Be stored in the same bucket as the input image.
	2. Have a URL that starts with `http://`. Note that "http://" cannot be omitted or changed to "https://". For example, the following watermark URLs are invalid:
	`examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/watermark.png`
	`https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/watermark.png`		

text	Text watermark, which must be URL-safe Base64-encoded. This parameter is required if `type` is set to `3` and does not take effect if `type` is set to `1` or `2`.	String	No
level	Perfectly blind watermarking level, which only takes effect when `type` is set to `2`. Valid values: `1` (default), `2`, `3`. The larger the value, the better the watermarking effects.	Int	No

Request parameters

This API has no request parameter.

Request body

This API does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

Parameters in the response body are as follows:

Parameter	Description	Type
UploadResult	Upload results	Container

Content of `UploadResult`:

Parameter	Description	Type
OriginalInfo	Information about the input image	Container
ProcessResults	Processing results	Container

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Content of `OriginalInfo` :

Parameter	Description	Type
Key	Name of the input image	String
location	Location of the input image	String
ImageInfo	Information about the input image	Container

Content of `ImageInfo` :

Parameter	Description	Type
Format	Image format	String
Width	Image width	Int
Height	Image height	Int
Quality	Image quality	Int
Ave	Image average hue	String
Orientation	Image rotation angle	Int

Content of `ProcessResults` :

Parameter	Description	Type
Object	Processing results of each image	Container

Content of `Object` :

Parameter	Description	Type
Key	Filename	String
Location	Image location	String
Format	Image format	String
Width	Image width	Int
Height	Image height	Int
Size	Image size	Int

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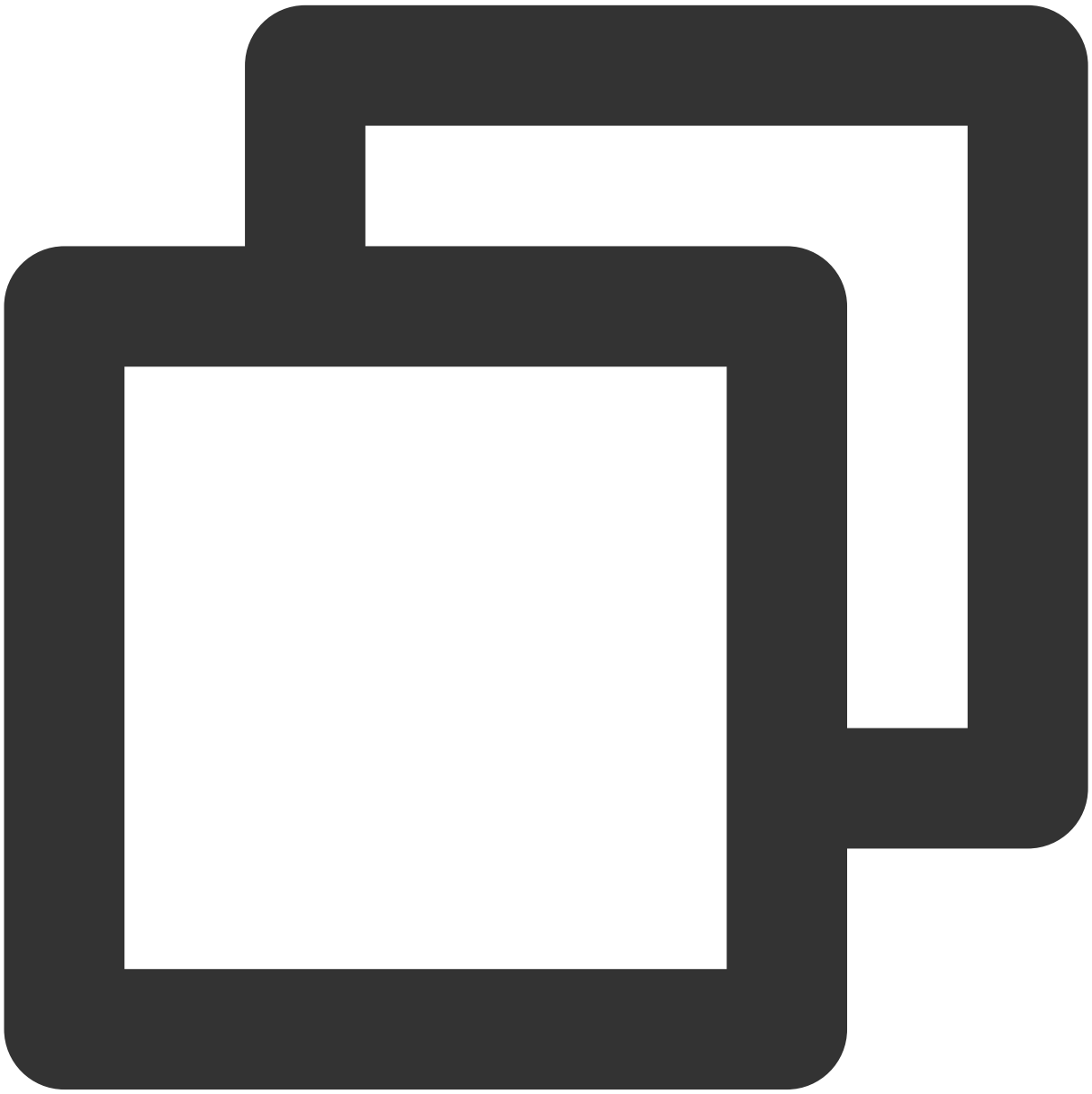
Quality	Image quality	Int

Example

Request



```
POST /exampleobject?image_process HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Date: Tue, 03 Apr 2018 09:06:15 GMT
Authorization:XXXXXXXXXXXX
```

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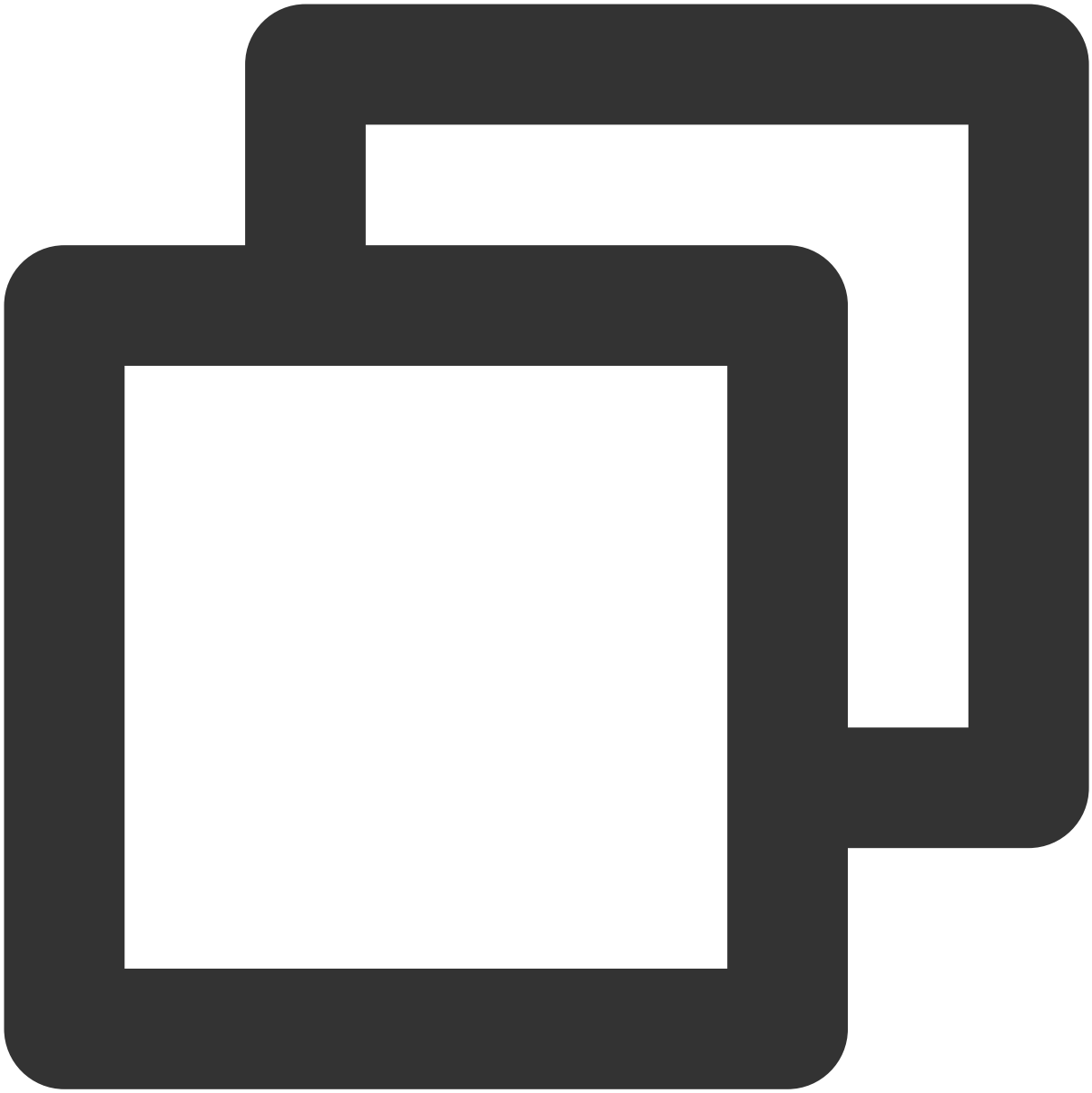
```
Pic-Operations:
{
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject",
        "rule": "watermark/3/type/1/image/aHR0cDovL2V4YW1wbGVzLTEyNTEwMDAwMDQucGljc
    }]
}
Content-Length: 64
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
Status: 200 OK
x-cos-request-id: NWFjMzQ0MDZfOTBmYTUwXzZkZV8z****

<UploadResult>
          <OriginalInfo>
              <Key>exampleobject</Key>
              <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/exampl
```

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```
                <ImageInfo>
                     <Format>JPEG</Format>
                     <Width>640</Width>
                     <Height>427</Height>
                     <Quality>100</Quality>
                     <Ave>0xa18454</Ave>
                     <Orientation>1</Orientation>
                </ImageInfo>
            </OriginalInfo>
            <ProcessResults>
                <Object>
                     <Key>exampleobject</Key>
                     <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/e
                     <Format>png</Format>
                     <Width>640</Width>
                     <Height>427</Height>
                     <Size>463092</Size>
                     <Quality>100</Quality>
                </Object>
            </ProcessResults>
</UploadResult>
```

Extracting Blind Watermarks

Example 1: Extracting upon upload

Sample request

The request for uploading an image with the blind watermark extracted is the same as that in a PUT Object call, except that you need to add the image processing parameter `Pic-Operations` to the request header and use the watermark extraction parameter `watermark/4`.

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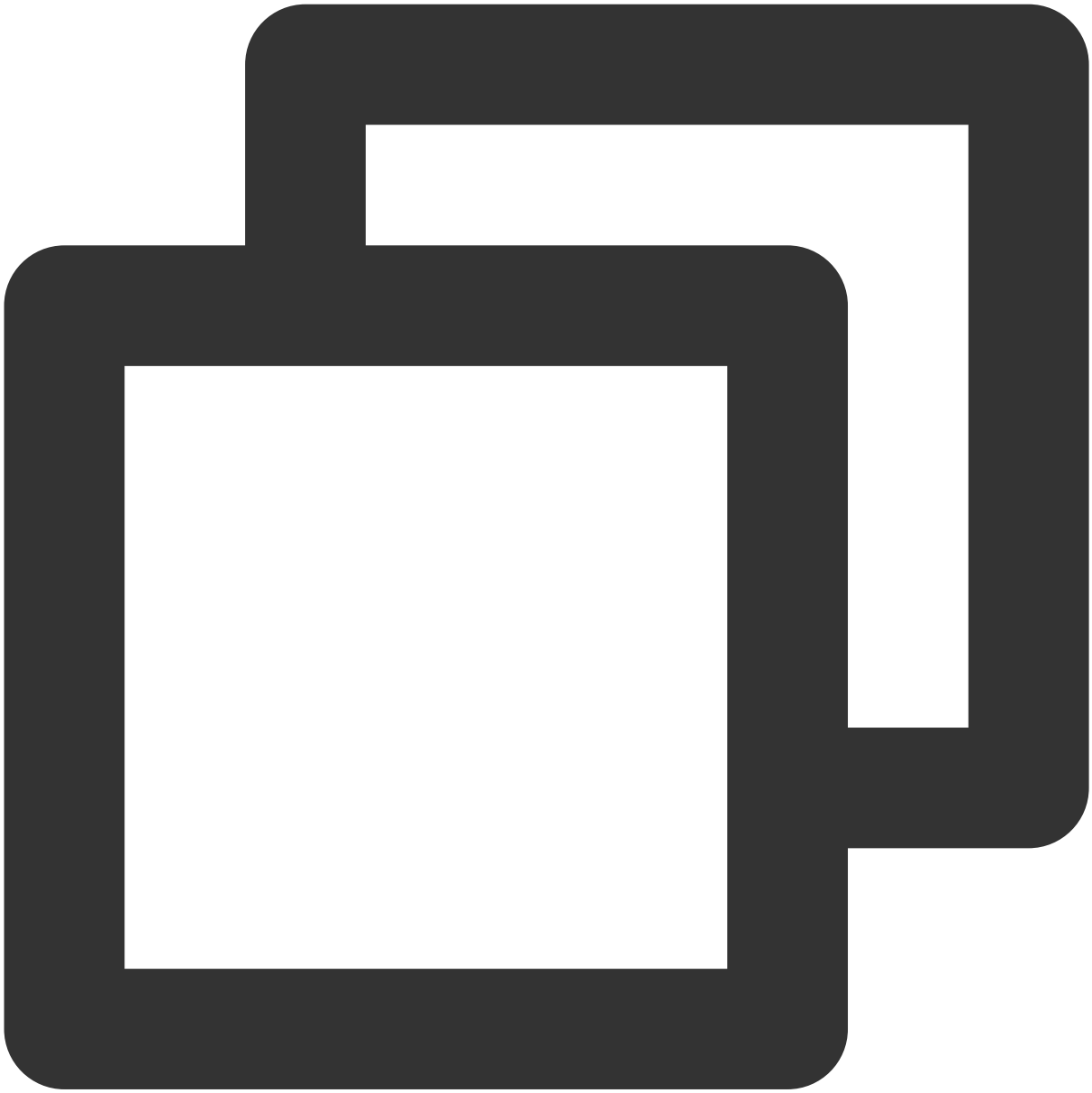

```
PUT /<ObjectKey> HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization:XXXXXXXXXXXX
Pic-Operations: <PicOperations>

[Object Content]
```

Note:

Authorization: Auth String (See Request Signature for details.)

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Request headers

This API uses Common Request Headers.

Add the image processing parameter `Pic-Operations` (a JSON string) to the request header. Its parameters are as follows:

Parameter	Description	Type	Required
is_pic_info	Whether to return the input image information `0` (default): no `1` : yes	Int	No
rules	Processing rules (up to five rules are supported). Each rule corresponds to one processing result. If this parameter is not specified, images will not be processed.	Array	No

Parameters of `rules` (a JSON array) are as follows:

Parameter	Description	Type	Required
bucket	Name of the destination bucket to store the results, formatted as `BucketName-APPID` . If this parameter is not specified, the results will be stored in the current bucket.	String	No
fileid	The path and name of the output file The rules for setting this parameter are as follows (assume that the input file is stored in `/p1/test1.jpg`): 1. A value starting with a slash (/) indicates an absolute path. For example, if `fileid` is set to `/p2/test2.jpg` , the `test2.jpg` file will be stored in the `p2` folder. 2. A value not starting with a slash indicates a relative path. For example, if `fileid` is set to `p2/test2.jpg` , a folder named `p2` is created in the `p1` folder, and the `test2.jpg` file will be stored in the `p2` folder. Note: Do not end the value with a slash. Otherwise, an empty filename will be generated.	String	Yes
rule	Processing parameters. For more information, see the image processing API. To process an image using a specified style, the value must start with `style/` with the style name followed. For example, if the style name is `test` , the value of `rule` should be `style/test` .	String	Yes

To extract a blind watermark, you need to add the `watermark` parameter to `rule` as follows:

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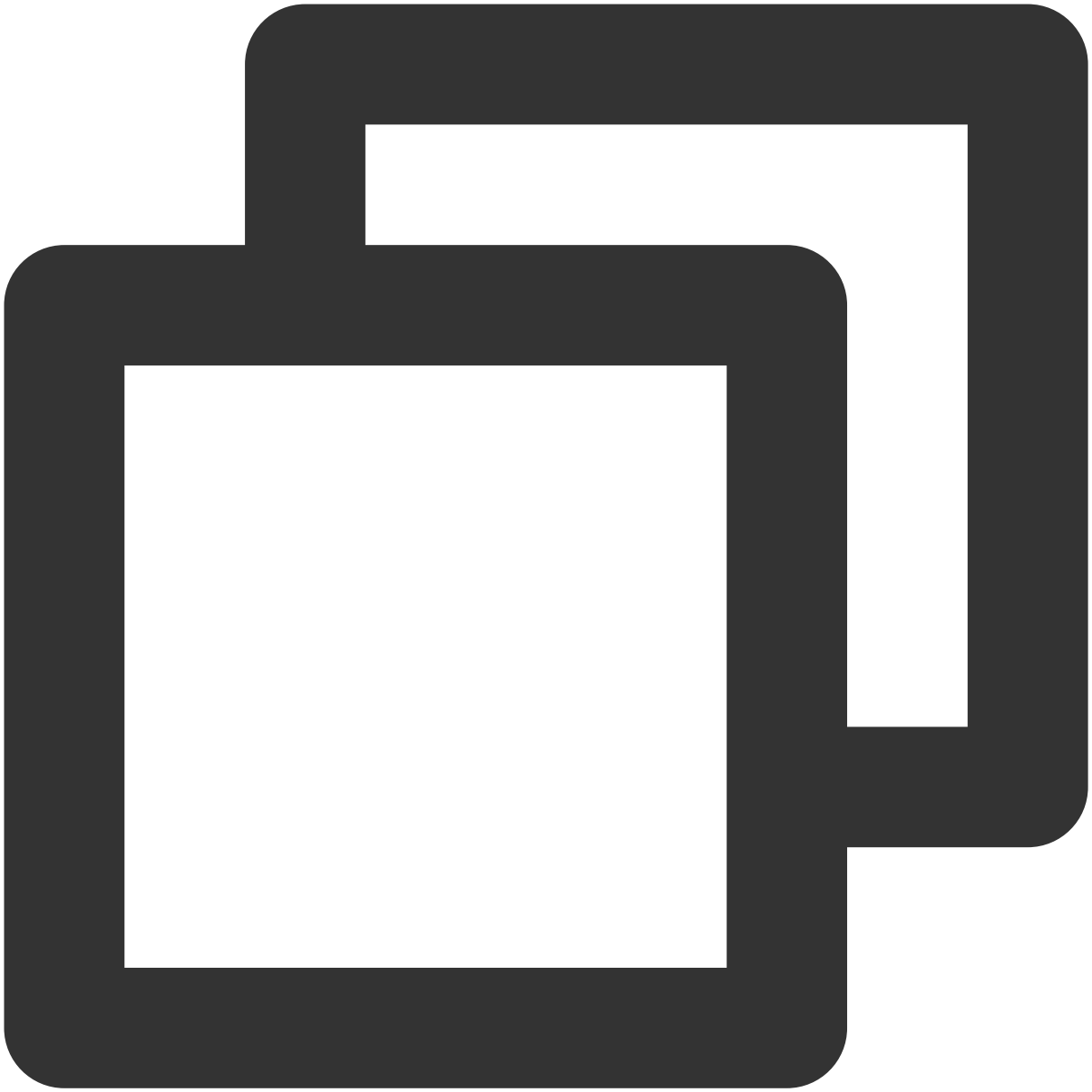

```
watermark/4/type/<type>/image/<imageUrl>
```

The parameters are as follows:

Parameter	Description	Type	Required
type	Blind watermarking type. Valid values: `1` (semi-blind watermarking), `2` (perfectly blind watermarking), `3` (text blind watermarking). **The value must be the same as that used when the blind watermark was added**.	Int	Yes

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image	Image URL, which should be specified according to the value of `type`. If the value of `type` is:
	`1`, `image` is required and is the URL of the input image.
	`2`, `image` is required and is the URL of the image watermark.
	`3`, `image` does not need to be specified and will not take effect.
	The value of `image` must be URL-safe Base64-encoded, and the image must:
	1. Be stored in the same bucket as the image with the blind watermark.
	2. Have a URL that starts with `http://`. Note that "http://" cannot be omitted or changed to "https://". For example, the following watermark URLs are invalid:
	`examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/watermark.png`
	`https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/watermark.png`
		String	No

Request parameters

This API has no request parameter.

Request body

The request body of the API is the binary string of the image.

Response

Response headers

This API only returns Common Response Headers.

Response body

`WatermarkStatus` will be added to the `UploadResult.ProcessResults.Object` node only if `type` is set to `2` in the request body of the blind watermark extraction request.

Parameter	Parent Node	Description	Type
WatermarkStatus	Object	This parameter is returned if `type` is set to `2` to indicate the confidence of the watermark extracted. Value range: 0–100. If the value is greater than 75, there is a blind watermark. If the value falls in the range of 60–75, there is a suspected blind watermark. If the value is smaller than 60, no blind watermark is extracted.	Int

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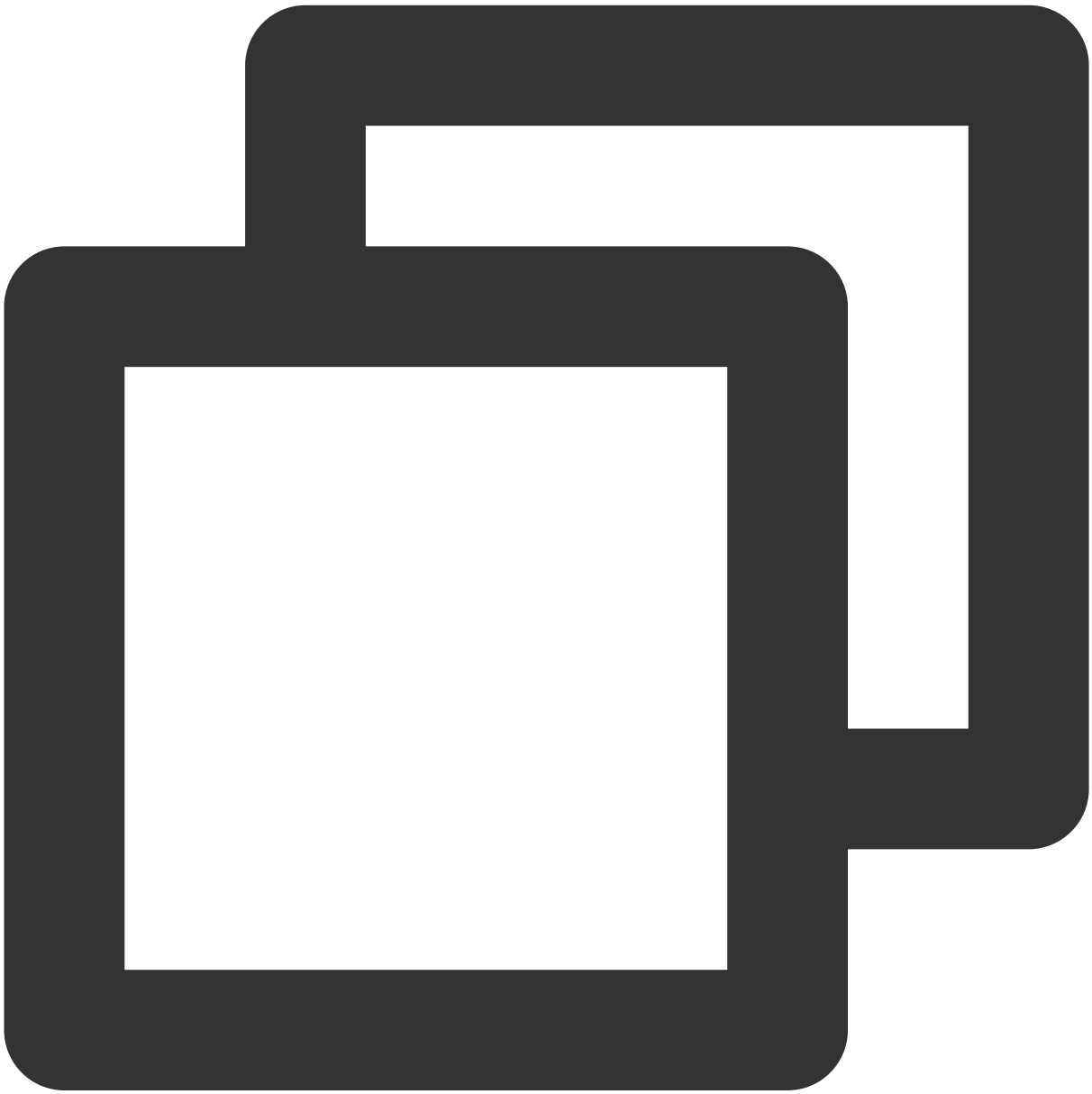
Example

Request



```
PUT /exampleobject1 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Date: Tue, 03 Apr 2018 09:06:15 GMT
Authorization:XXXXXXXXXXXX

Pic-Operations:
{
```

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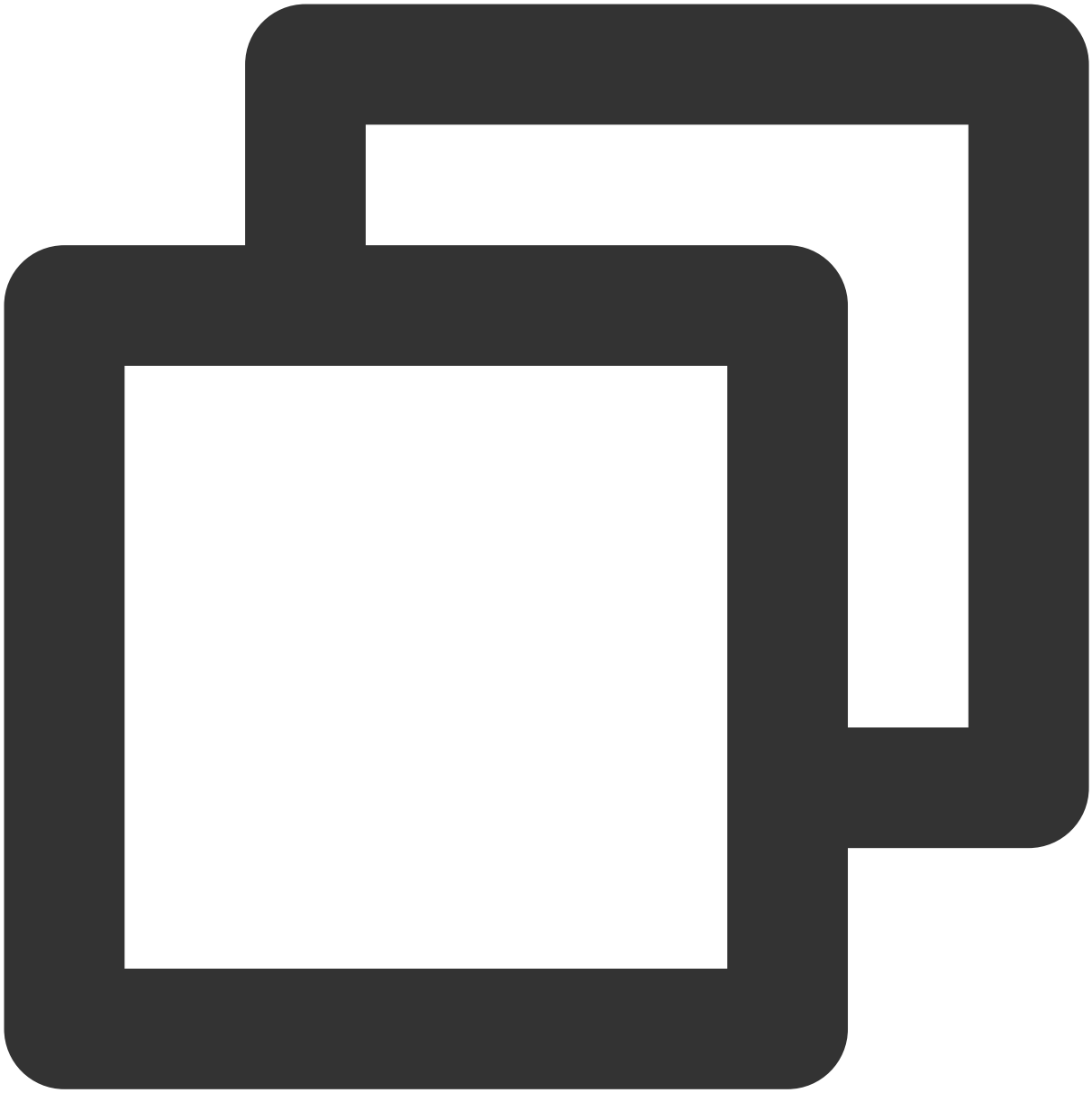
```
    "is_pic_info": 1,
    "rules": [{
        "fileid": "exampleobject2",
        "rule": "watermark/4/type/2/image/aHR0cDovL2V4YW1wbGVzLTEyNTEwMDAwMDQucGljc
    }]
}
Content-Length: 64

[Object Content]
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
Status: 200 OK
x-cos-request-id: NWFjMzQ0MDZfOTBmYTUwXzZkZV8z****

<UploadResult>
      <OriginalInfo>
          <Key>exampleobject1</Key>
          <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/exampleobj
```

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```
            <ImageInfo>
                  <Format>JPEG</Format>
                  <Width>640</Width>
                  <Height>427</Height>
                  <Quality>100</Quality>
                  <Ave>0xa18454</Ave>
                  <Orientation>1</Orientation>
                  <FrameCount>1</FrameCount>
            </ImageInfo>
      </OriginalInfo>
      <ProcessResults>
            <Object>
                  <Key>exampleobject2</Key>
                  <Location>examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/exam
                  <Format>png</Format>
                  <Width>640</Width>
                  <Height>427</Height>
                  <Size>463092</Size>
                  <Quality>100</Quality>
                  <FrameCount>1</FrameCount>
                  <WatermarkStatus>86</WatermarkStatus>
            </Object>
      </ProcessResults>
</UploadResult>
```

Note:

If `type` is set to `1` in the request, `imageUrl` in `rule` in `Pic-Operations` is the URL of the input image without a blind watermark added. If `type` is set to `2` in the request, `imageUrl` is the URL of the image watermark.

`url` in `ProcessResults` in the response body is the URL of the image watermark extracted.

Example 2: Extracting from an image stored in COS

The request for extracting a blind watermark from an image stored in COS is the same as that used to Process In-Cloud Data, except that you need to add the image processing parameter `Pic-Operations` to the request header and use the watermark extraction parameter `watermark/4` .

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AI-Based Content Recognition
Queue APIs
Querying queue

Last updated：2024-06-12 15:20:05

Feature Description

This API is used to search for an AI-based content recognition queue.

Request

Sample request

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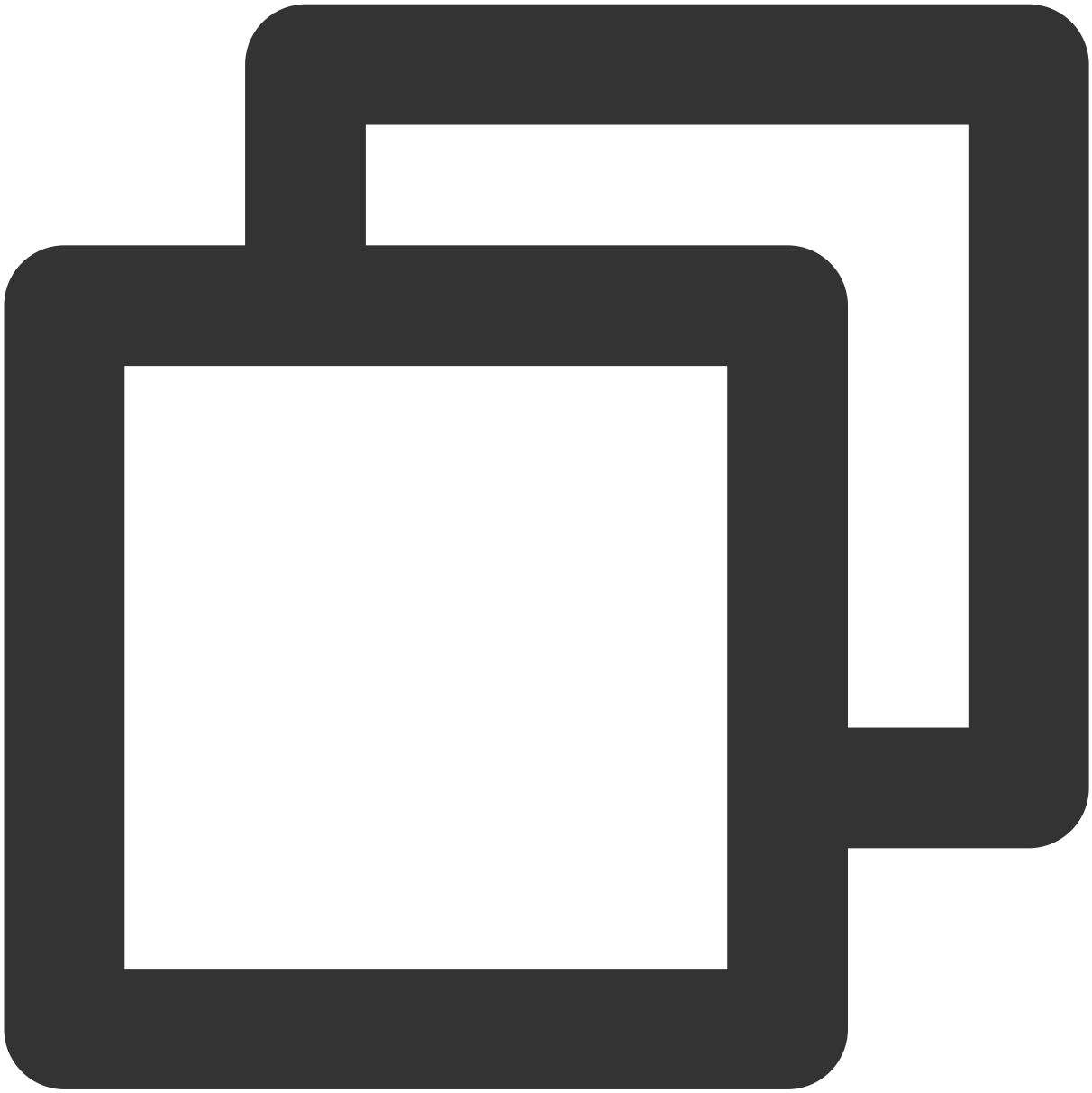

```
GET /ai_queue HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

Parameter (Keyword)	Description	Type	Required
queueId	Queue ID. If you enter multiple IDs, separate them by comma.	String	No
state	1. Active: Jobs in the queue will be scheduled and executed by the media processing service. 2. Paused: The queue is paused, and jobs in it will no longer be scheduled and executed. All jobs in the queue will remain in the Paused status, while jobs being executed will not be affected.	String	No
pageNumber	Page number. Default value: `1` .	String	No
pageSize	Number of entries per page. Default value: `10` .	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes when `pageNumber` and `pageSize` are specified:

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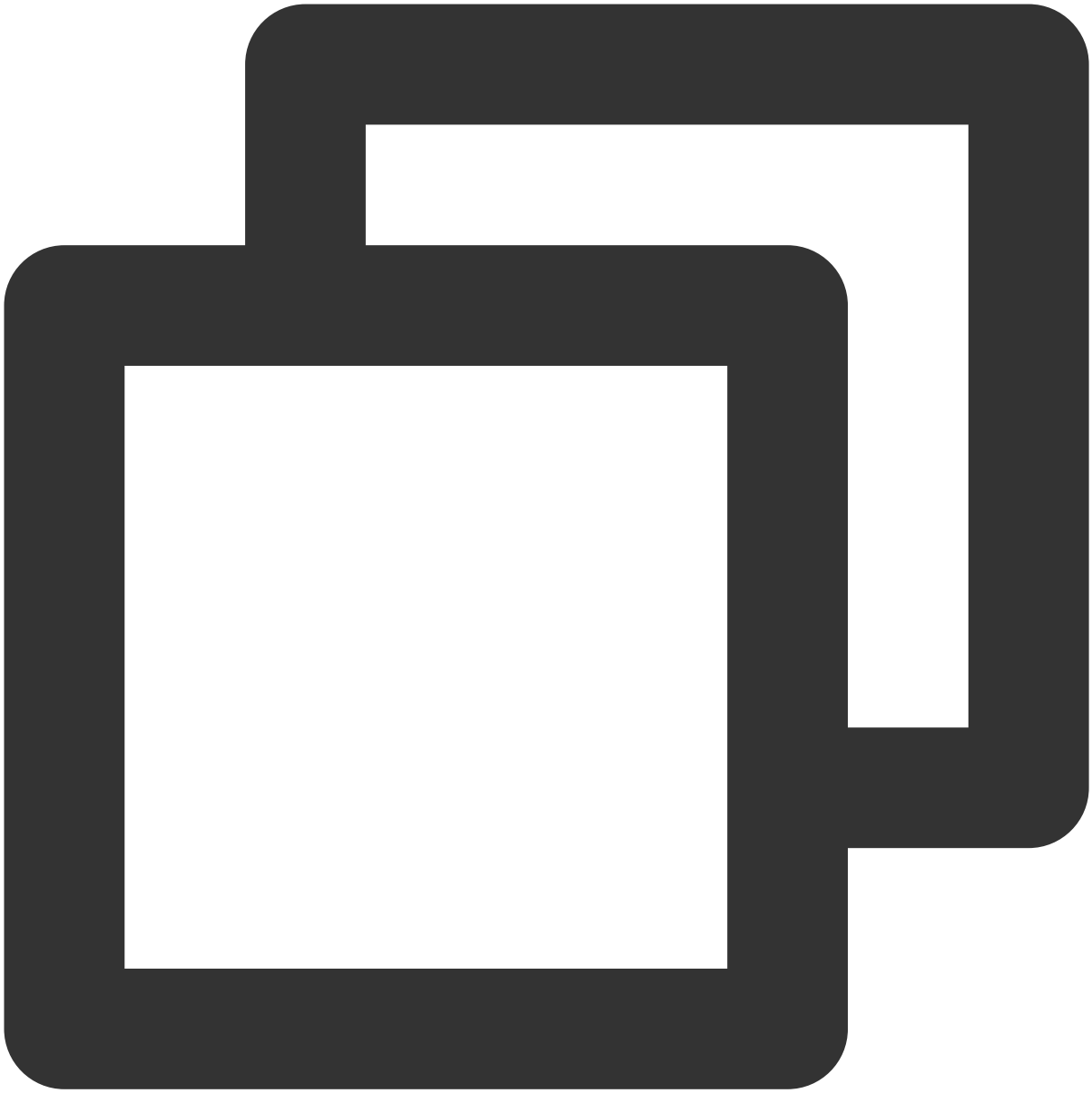

```
<Response>
    <RequestId>NjJmMzI5MmRfOTBmYTUwNjRfNjcwM18x</RequestId>
    <TotalCount>1</TotalCount>
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <QueueList>
        <QueueId>p23f69f4779e64b18aa61e70d5416c071</QueueId>
        <Name>queue-ai-process-1</Name>
        <State>Active</State>
        <NotifyConfig>
            <Url>http://callback.demo.com</Url>
```

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```
            <Event>TaskFinish,WorkflowFinish</Event>
            <Type>Url</Type>
            <State>On</State>
            <ResultFormat>JSON</ResultFormat>
        </NotifyConfig>
        <MaxSize>10000</MaxSize>
        <MaxConcurrent>10</MaxConcurrent>
        <UpdateTime>2022-08-09T16:23:11+0800</UpdateTime>
        <CreateTime>2022-08-09T16:23:11+0800</CreateTime>
        <Category>AIProcess</Category>
    </QueueList>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
TotalCount	Response	Total number of queues	Int
PageNumber	Response	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Response	Number of entries per page, which is the same as `pageSize` in the request.	Int
QueueList	Response	Queue array	Container array
NonExistPIDs	Response	List of IDs of non-existent queues	String array

`QueueList` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
QueueId	Response.QueueList	Queue ID	String

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Name	Response.QueueList	Queue name	String
State	Response.QueueList	Current status: `Active` or `Paused`	String
NotifyConfig	Response.QueueList	Callback configuration	Container
MaxSize	Response.QueueList	Maximum length of the queue	Int
MaxConcurrent	Response.QueueList	Maximum number of concurrent jobs in the current queue	Int
Category	Response.QueueList	Queue type	String
UpdateTime	Response.QueueList	Update time	String
CreateTime	Response.QueueList	Creation time	String

`NotifyConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Url	Response.QueueList.NotifyConfig	Callback address	String
State	Response.QueueList.NotifyConfig	Switch status: `On` or `Off`	String
Type	Response.QueueList.NotifyConfig	Callback type: Url	String
Event	Response.QueueList.NotifyConfig	Job completed: `TaskFinish` ; workflow completed: `WorkflowFinish`	String
ResultFormat	Response.QueueList.NotifyConfig	Callback type: `XML` or `JSON` .	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request 1: Searching for the specified queue

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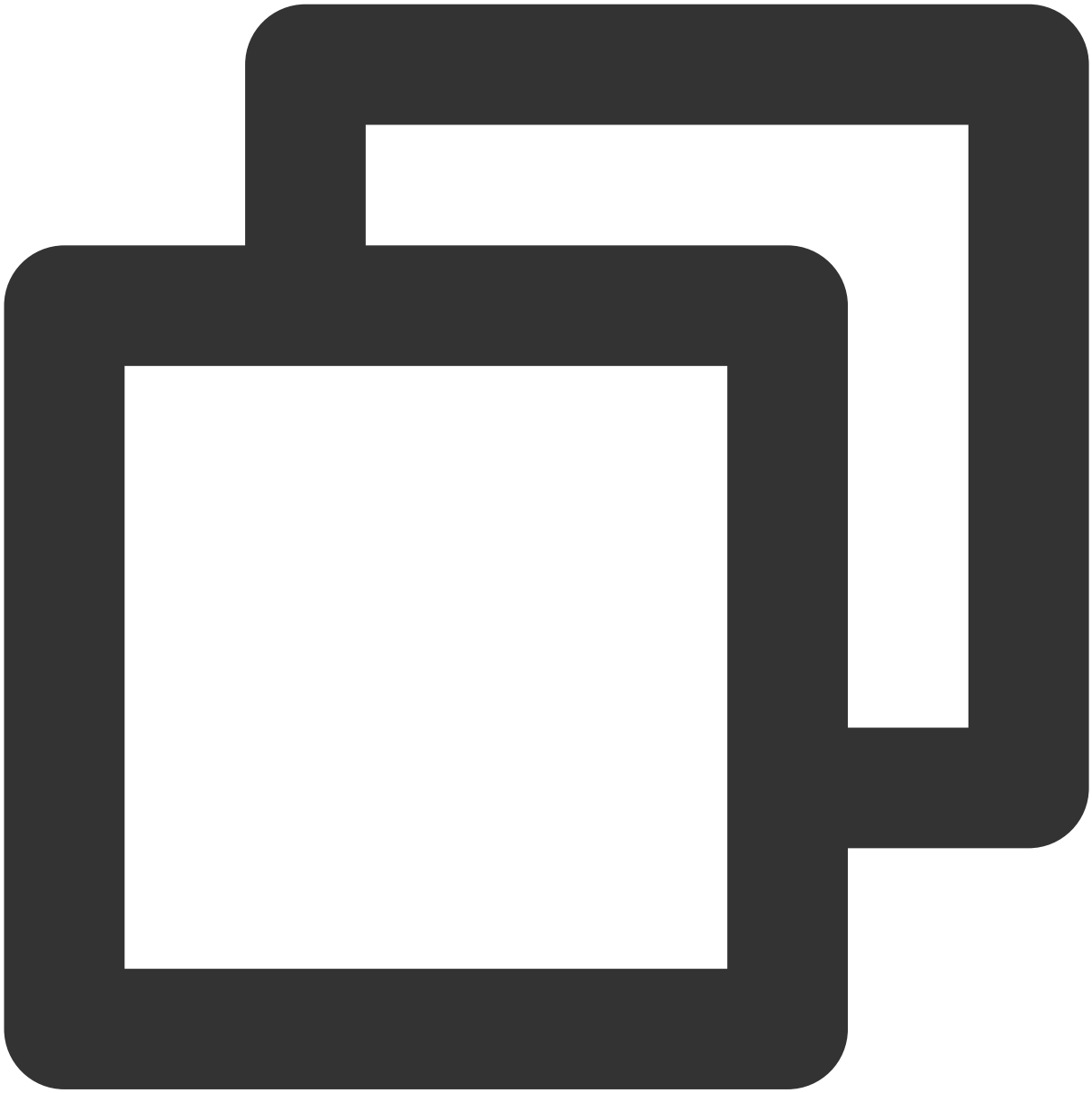

```
GET /ai_queue?queueIds=p23f69f4779e64b18aa61e70d5416c071,A,B HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response 1

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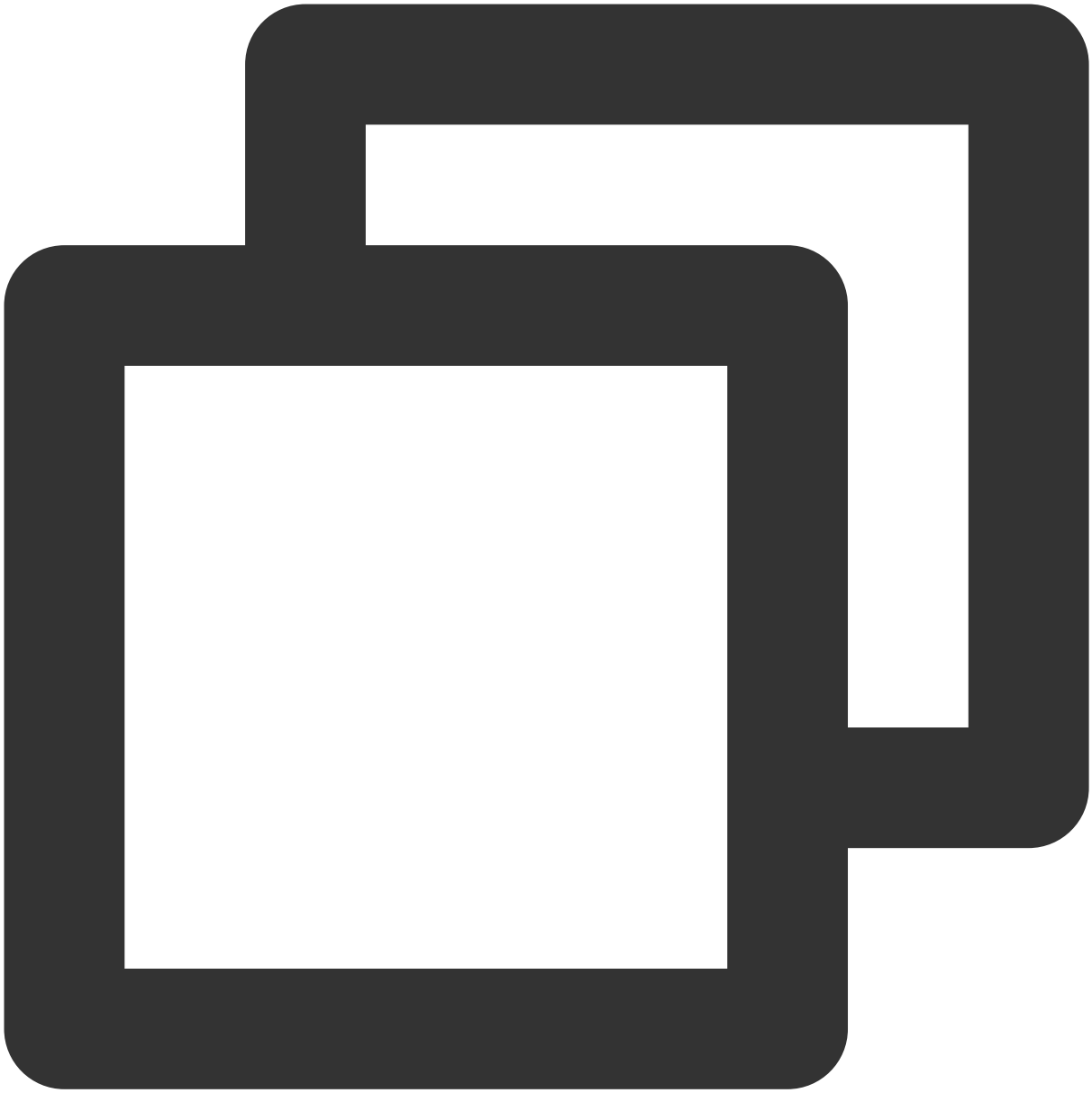

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 09 Aug 2022 16:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjJmMzJjNDFfOTBmYTUwNjRfNjQ5NF8x

<Response>
    <RequestId>NjJmMzJjNDFfOTBmYTUwNjRfNjQ5NF8x</RequestId>
    <QueueList>
```

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```
        <QueueId>p23f69f4779e64b18aa61e70d5416c071</QueueId>
        <Name>queue-ai-process-1</Name>
        <State>Active</State>
        <NotifyConfig>
            <Url>http://callback.demo.com</Url>
            <Event>TaskFinish,WorkflowFinish</Event>
            <Type>Url</Type>
            <State>On</State>
            <ResultFormat>JSON</ResultFormat>
        </NotifyConfig>
        <MaxSize>10000</MaxSize>
        <MaxConcurrent>10</MaxConcurrent>
        <UpdateTime>2022-08-09T16:23:11+0800</UpdateTime>
        <CreateTime>2022-08-09T16:23:11+0800</CreateTime>
        <Category>AIProcess</Category>
    </QueueList>
    <NonExistPIDs>A</NonExistPIDs>
    <NonExistPIDs>B</NonExistPIDs>
</Response>
```

Request 2: Querying the list of queues

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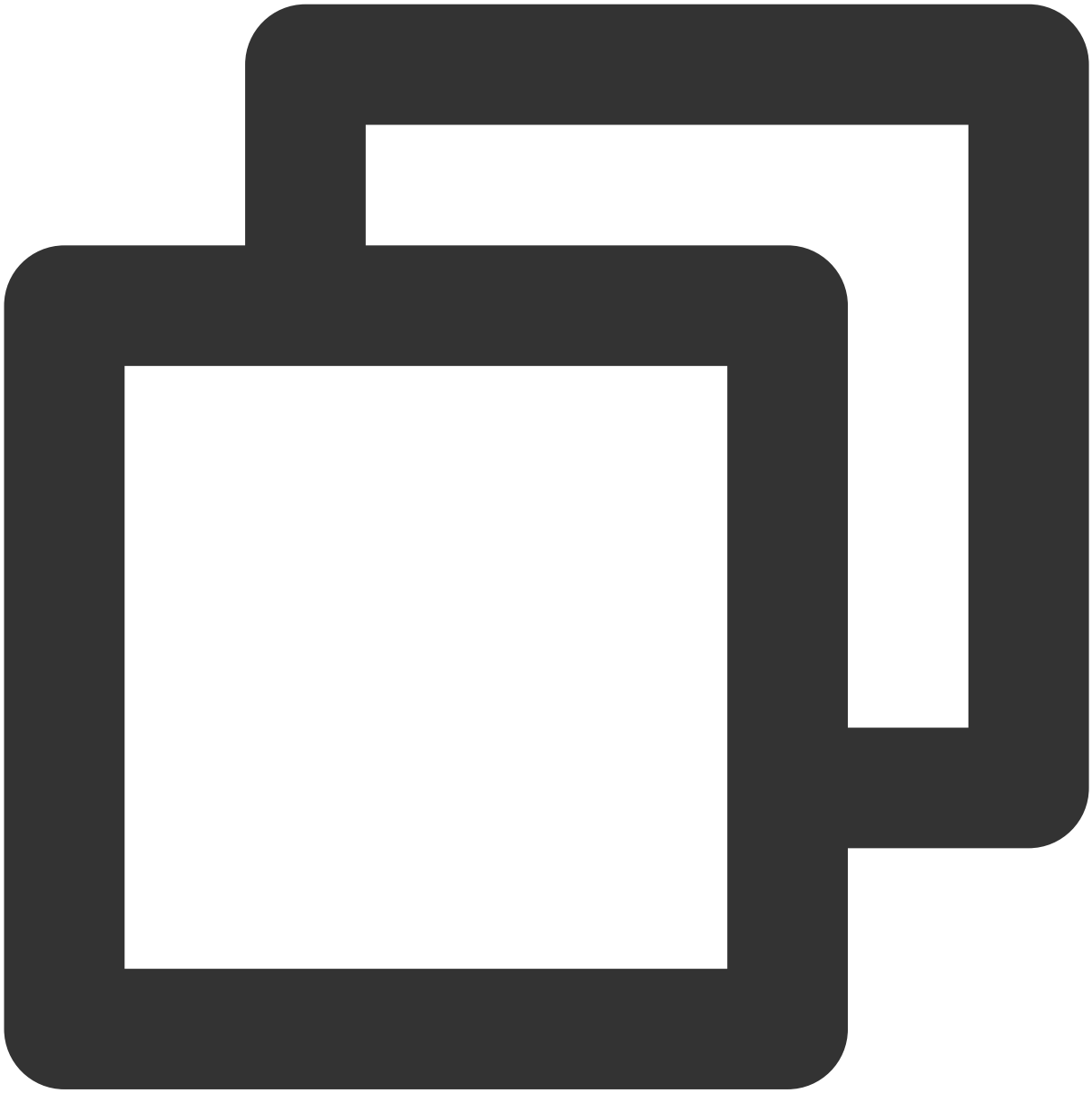

```
GET /ai_queue?pageSize=10&pageNumber=1&category=CateAll HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response 2

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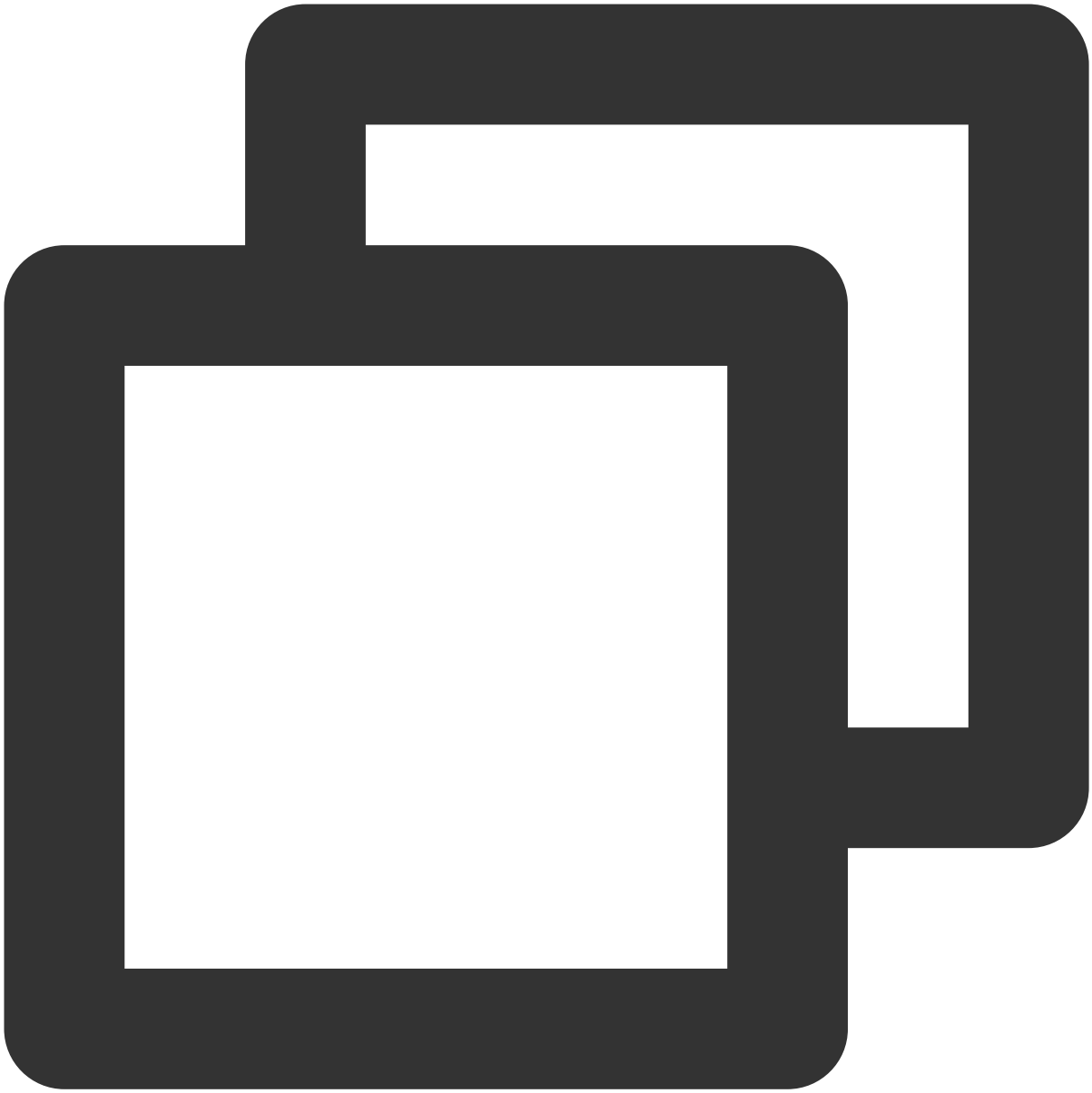

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 09 Aug 2022 16:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjJmMzI5MmRfOTBmYTUwNjRfNjcwM18x

<Response>
    <RequestId>NjJmMzI5MmRfOTBmYTUwNjRfNjcwM18x</RequestId>
    <TotalCount>1</TotalCount>
```

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```
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <QueueList>
        <QueueId>p23f69f4779e64b18aa61e70d5416c071</QueueId>
        <Name>queue-ai-process-1</Name>
        <State>Active</State>
        <NotifyConfig>
            <Url>http://callback.demo.com</Url>
            <Event>TaskFinish,WorkflowFinish</Event>
            <Type>Url</Type>
            <State>On</State>
            <ResultFormat>JSON</ResultFormat>
        </NotifyConfig>
        <MaxSize>10000</MaxSize>
        <MaxConcurrent>10</MaxConcurrent>
        <UpdateTime>2022-08-09T16:23:11+0800</UpdateTime>
        <CreateTime>2022-08-09T16:23:11+0800</CreateTime>
        <Category>AIProcess</Category>
    </QueueList>
</Response>
```

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Updating queue

Last updated：2024-06-12 15:20:05

Feature Description

This API is used to update the AI-based content recognition queue.

Request

Sample request

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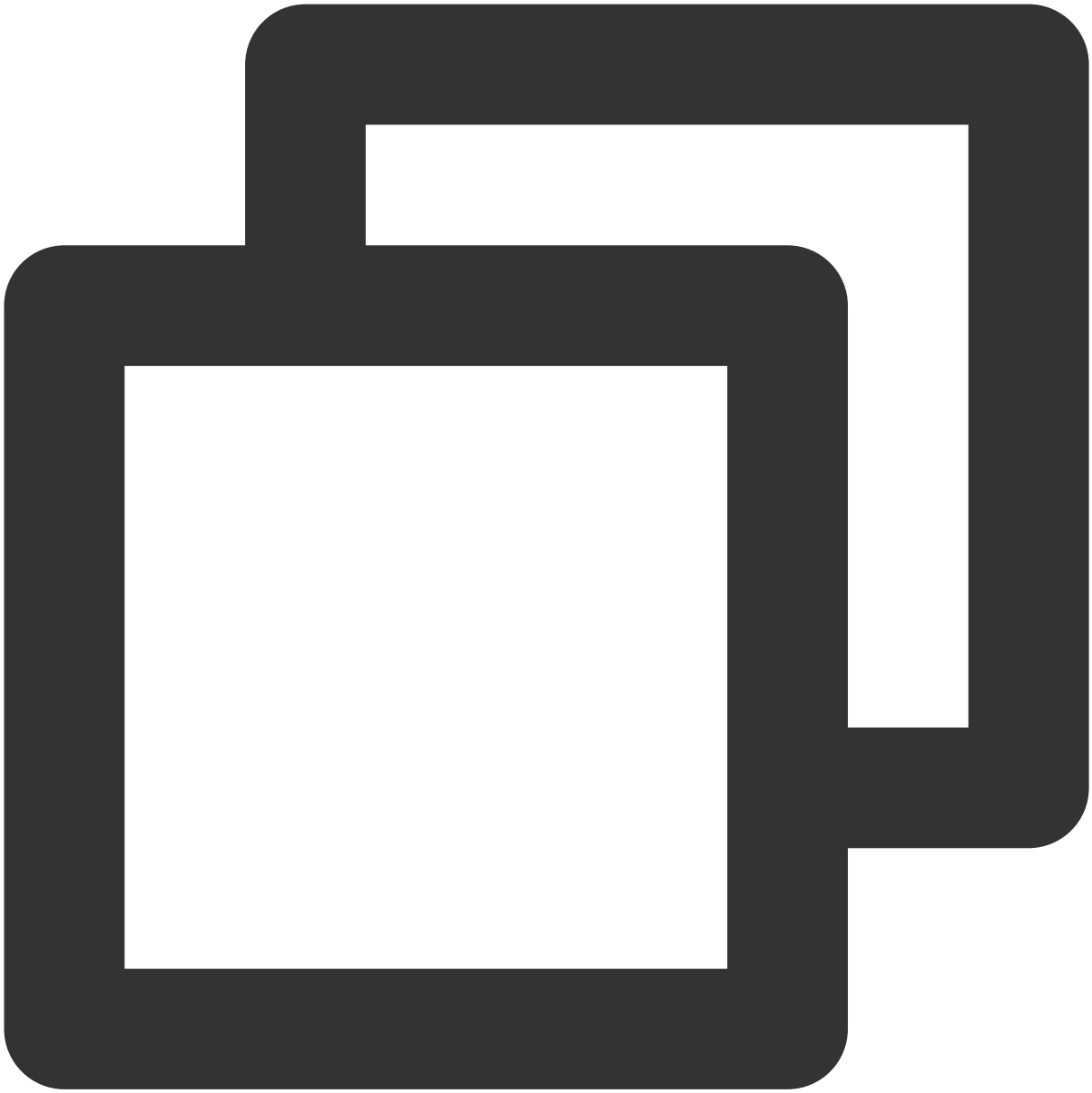

```
PUT /ai_queue/<queueId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

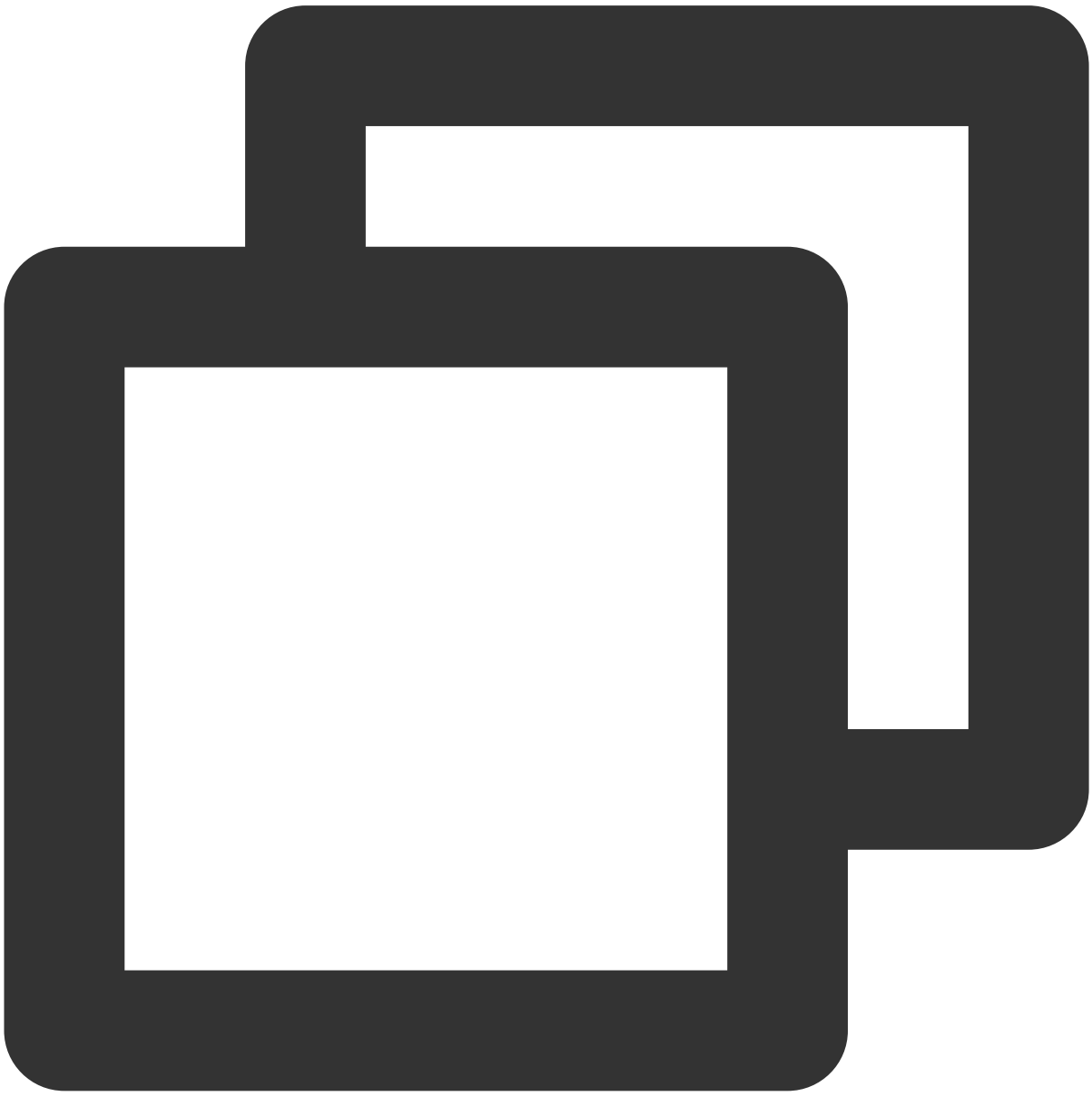
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Name>My-Queue-AI</Name>
    <State>Active</State>
    <NotifyConfig>
        <State>On</State>
        <Url>http://callback.demo.com</Url>
        <Type>Url</Type>
        <Event>TaskFinish,WorkflowFinish</Event>
        <ResultFormat>JSON</ResultFormat>
    </NotifyConfig>
</Request>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Request	None	Response container	Container	Yes	None	None

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Name	Request	Queue name, which can contain up to 128 bytes.	String	Yes	None	None
State	Request	1. Active: Jobs in the queue will be scheduled and executed by the media processing service. 2. Paused: The queue is paused, and jobs in it will no longer be scheduled and executed. All jobs in the queue will remain in the Paused status, while jobs being executed will not be affected.	String	Yes	None	None
NotifyConfig	Request	Callback configuration	Container	Yes	None	None

`NotifyConfig` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
State	Request.NotifyConfig	Callback status: `Off` or `On`.	String	No	Off	None
Type	Request.NotifyConfig	Callback type	String	Yes if `State` is `On`	None	General callback: `Url`
Url	Request.NotifyConfig	Callback URL	String	Yes if `State` is `On`	None	None
Event	Request.NotifyConfig	Callback event	String	Yes if `State` is `On`	None	Job completion: `TaskFinish`; workflow completio `WorkflowFinis`
ResultFormat	Request.NotifyConfig	Callback format	String	No	XML	JSON/XML

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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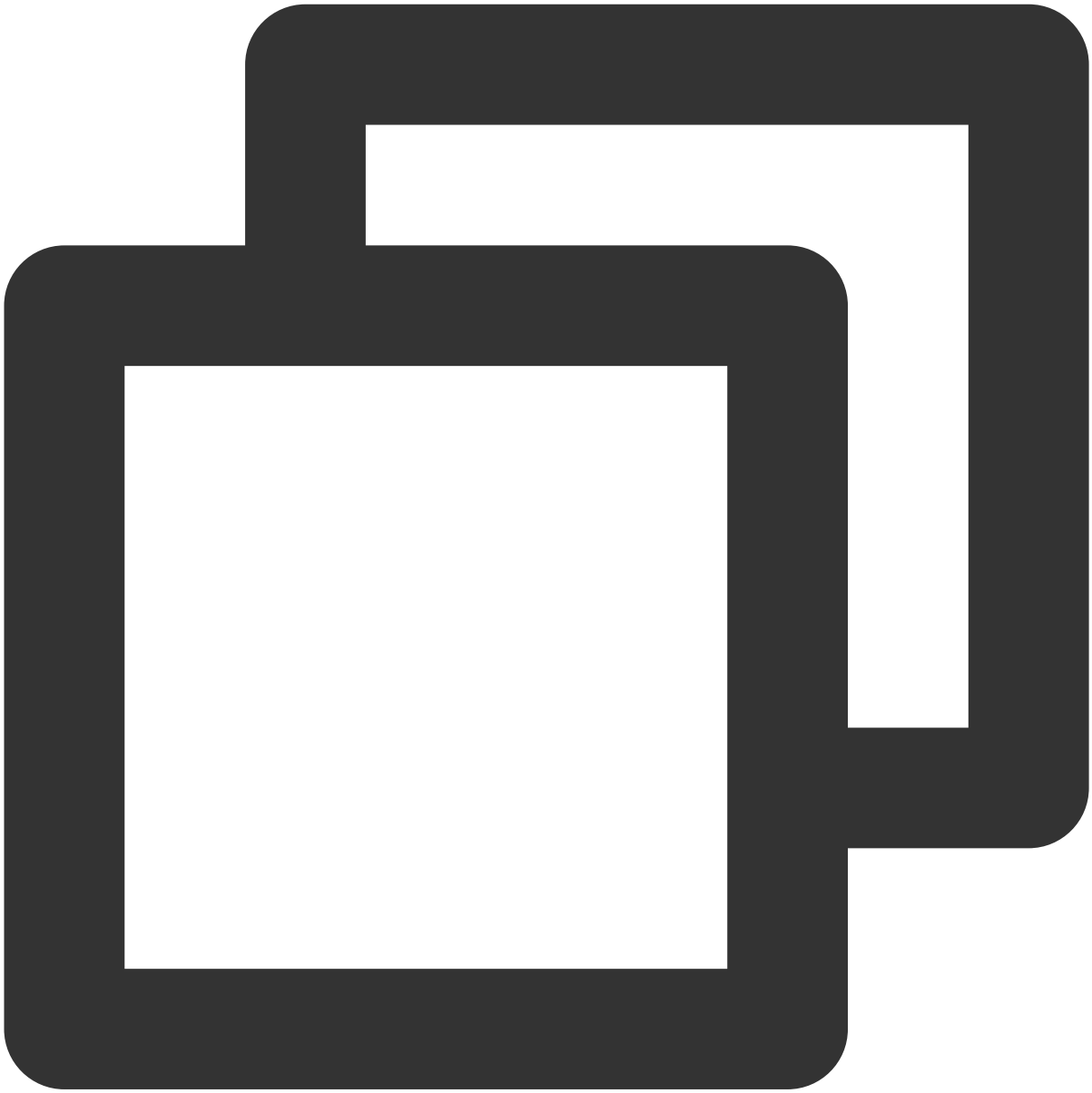

```
<Response>
    <RequestId>NjJmNDczY2RfOTBmYTUwNjRfNTA4ZV85</RequestId>
    <Queue>
        <QueueId>p23f69f4779e64b18aa61e70d5416c071</QueueId>
        <Name>My-Queue-AI</Name>
        <State>Active</State>
        <NotifyConfig>
            <Url>http://callback.demo.com</Url>
            <Event>TaskFinish,WorkflowFinish</Event>
            <Type>Url</Type>
            <State>On</State>
```

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```
            <ResultFormat>JSON</ResultFormat>
        </NotifyConfig>
        <UpdateTime>2022-08-09T16:23:11+0800</UpdateTime>
        <CreateTime>2022-08-09T16:13:05+0800</CreateTime>
    </Queue>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
Queue	Response	Queue information	Container

`Queue` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
QueueId	Response.Queue	Queue ID	String
Name	Response.Queue	Queue name	String
State	Response.Queue	Current status: `Active` or `Paused`.	String
NotifyConfig	Response.Queue	Callback configuration, which is the same as `Request.NotifyConfig`.	Container
MaxSize	Response.Queue	Maximum length of the queue	Int
MaxConcurrent	Response.Queue	Maximum number of concurrent jobs in the current queue	Int
Category	Response.Queue	Queue type	String
UpdateTime	Response.Queue	Update time	String
CreateTime	Response.Queue	Creation time	String

Error codes

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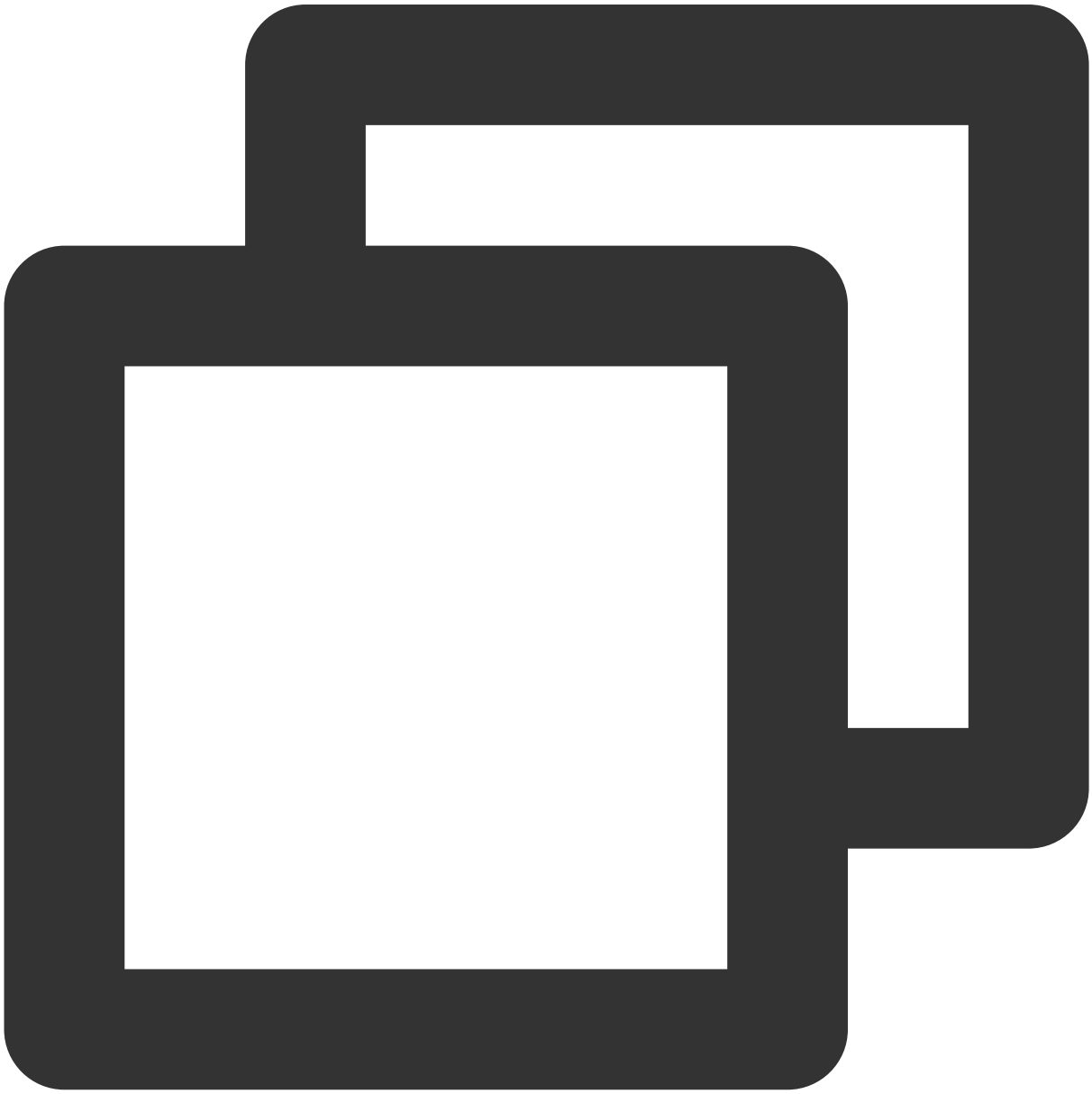
There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request



```
PUT /ai_queue/p23f69f4779e64b18aa61e70d5416c071 HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

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```
Content-Length: 162
Content-Type: application/xml

<Request>
    <Name>My-Queue-AI</Name>
    <State>Active</State>
    <NotifyConfig>
        <State>On</State>
        <Url>http://callback.demo.com</Url>
        <Type>Url</Type>
        <Event>TaskFinish,WorkflowFinish</Event>
        <ResultFormat>JSON</ResultFormat>
    </NotifyConfig>
</Request>
```

Response

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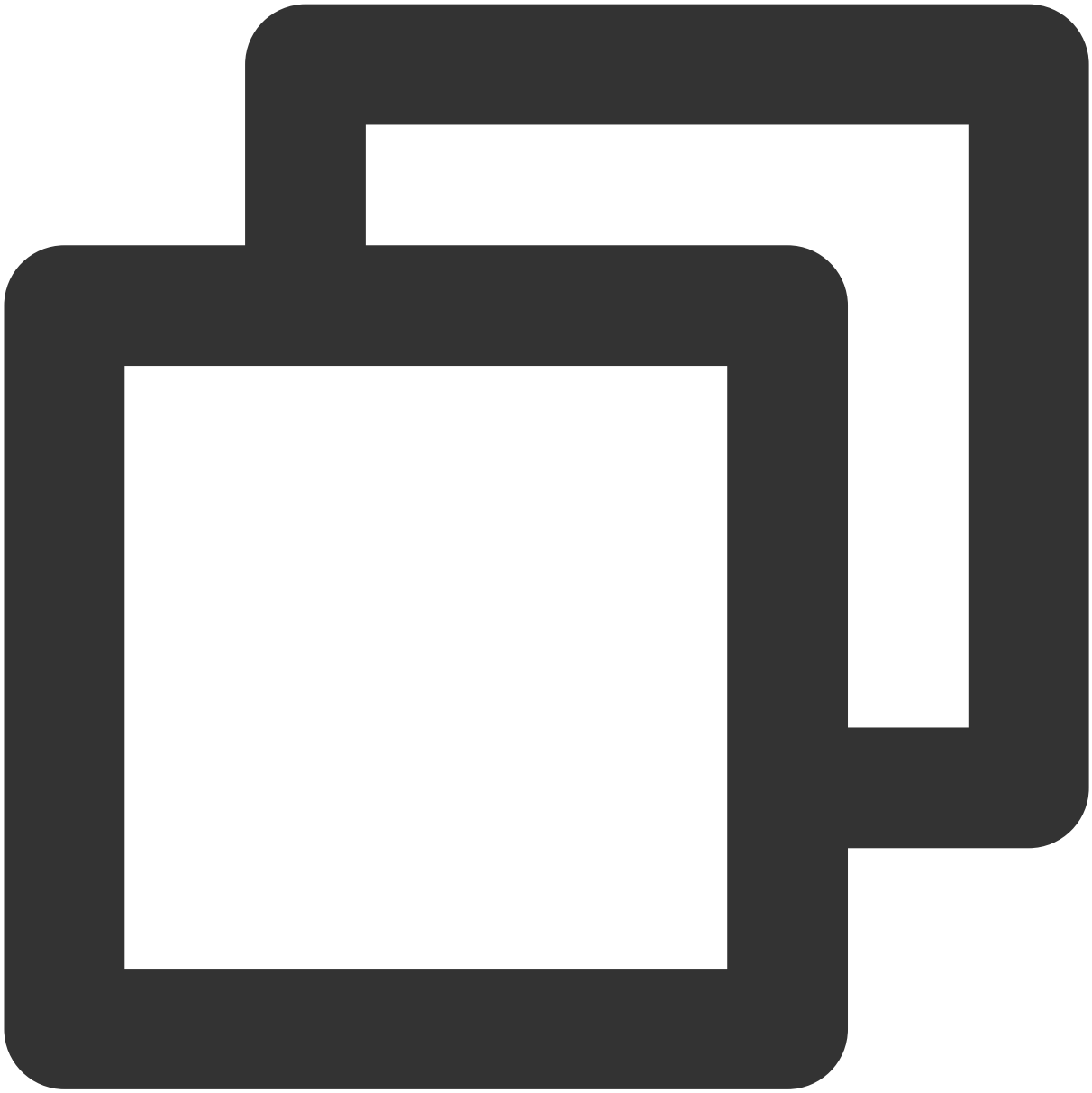

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 09 Aug 2022 16:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjJmNDczY2RfOTBmYTUwNjRfNTA4ZV85

<Response>
    <RequestId>NjJmNDczY2RfOTBmYTUwNjRfNTA4ZV85</RequestId>
    <Queue>
```

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```
        <QueueId>p23f69f4779e64b18aa61e70d5416c071</QueueId>
        <Name>My-Queue-AI</Name>
        <State>Active</State>
        <NotifyConfig>
            <Url>http://callback.demo.com</Url>
            <Event>TaskFinish,WorkflowFinish</Event>
            <Type>Url</Type>
            <State>On</State>
            <ResultFormat>JSON</ResultFormat>
        </NotifyConfig>
        <UpdateTime>2022-08-09T16:23:11+0800</UpdateTime>
        <CreateTime>2022-08-09T16:13:05+0800</CreateTime>
    </Queue>
</Response>
```

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Service Configuration
Enabling AI-Based Content Recognition

Last updated：2024-06-12 15:20:05

Feature Description

This API is used to activate the AI-based content recognition service and generate a queue.

Request

Sample request

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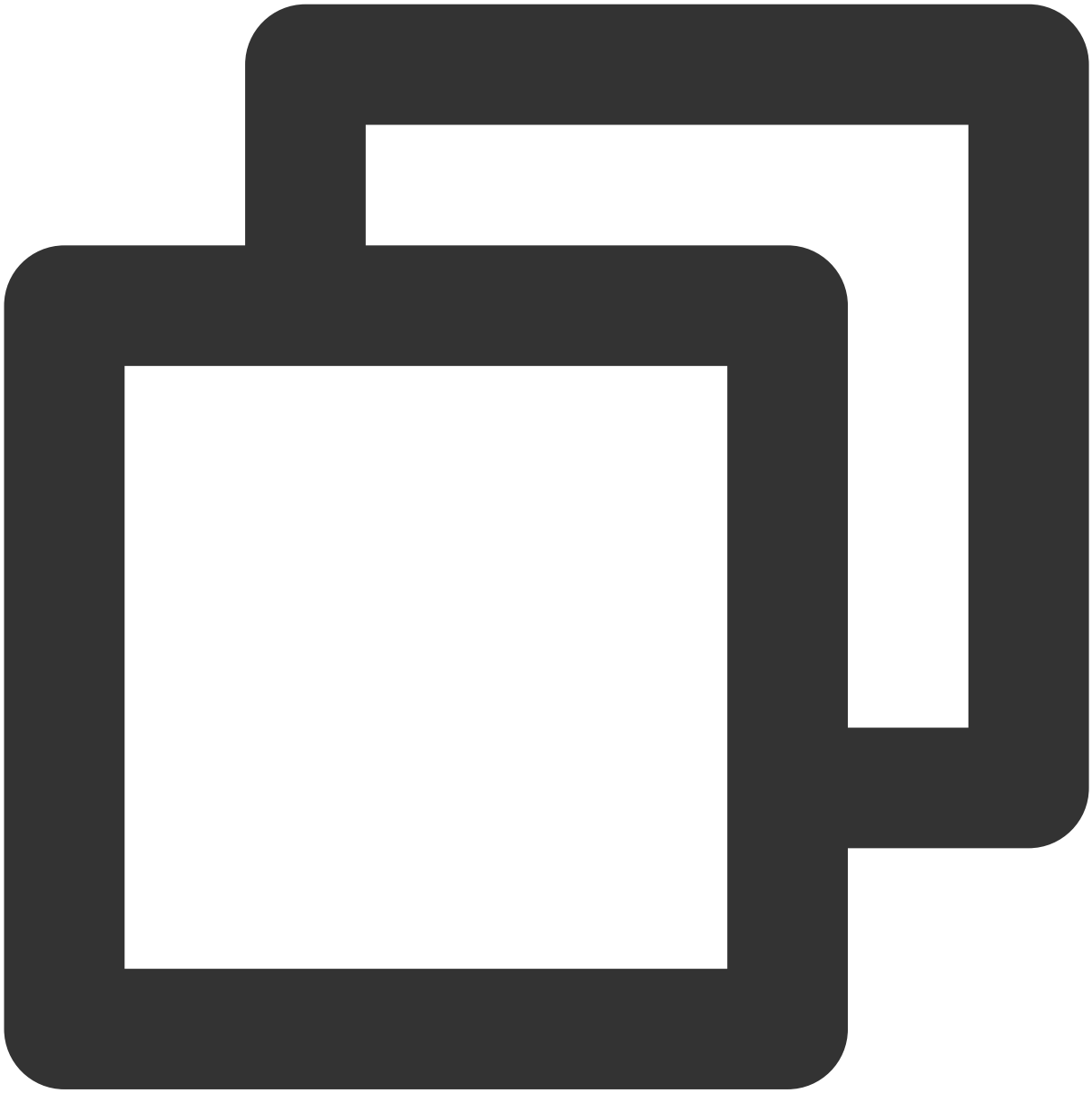

```
POST /ai_bucket HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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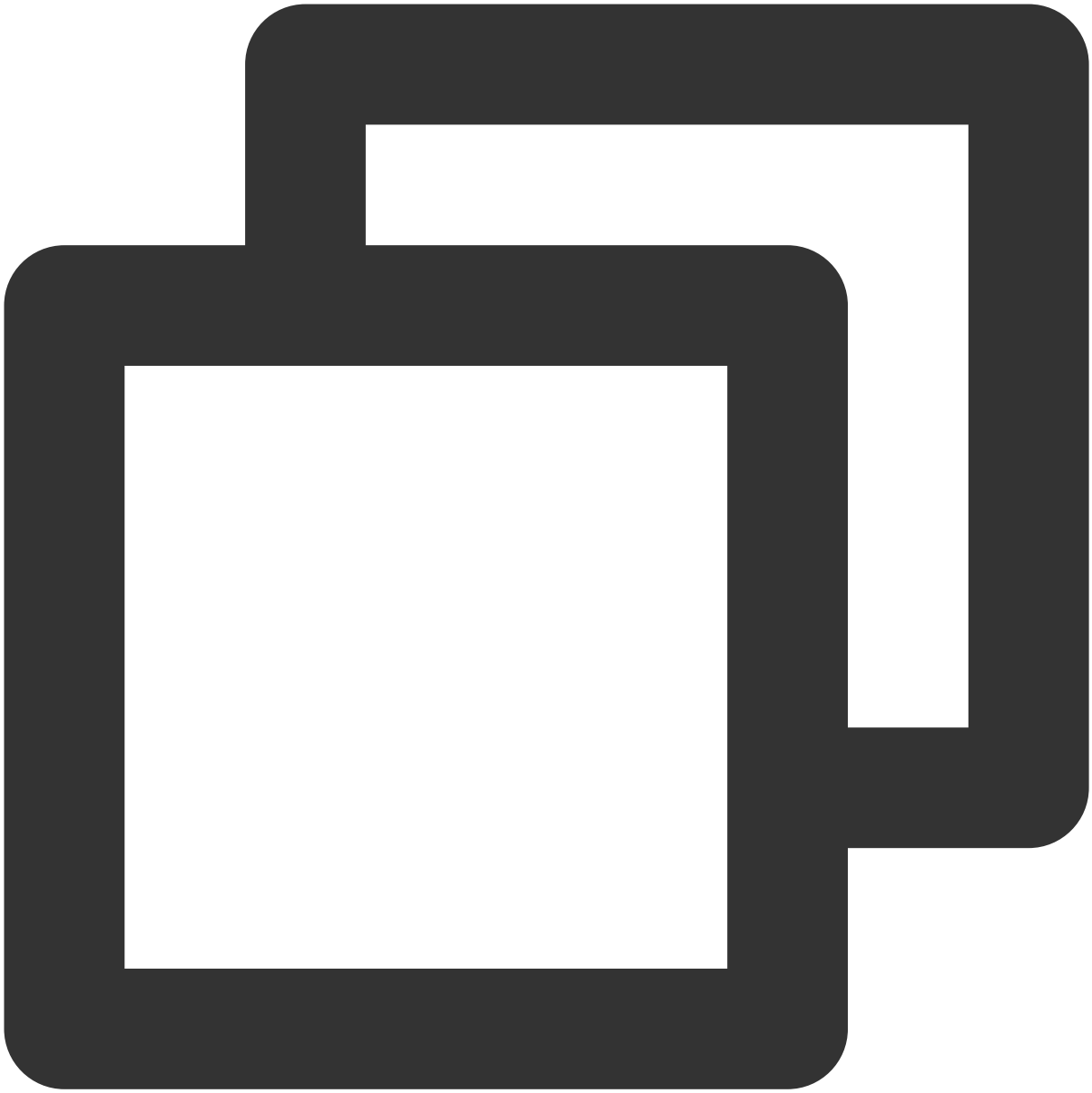

```
<Response>
    <RequestId>NjJmMzRlZGZfOTBmYTUwNjRfNzI0MV8x</RequestId>
    <AiBucket>
        <BucketId>test-1234567890</BucketId>
        <Name>test-1234567890</Name>
        <Region>ap-chongqing</Region>
        <CreateTime2022-08-09T16:23:11+0800></CreateTime>
    </AiBucket>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
AiBucket	Response	Bucket information	Container

`AiBucket` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
BucketId	Response.AiBucket	Bucket ID.	String
Name	Response.AiBucket	Bucket name, which is the same as `BucketId`.	String
Region	Response.AiBucket	Region.	String
CreateTime	Response.AiBucket	Creation time.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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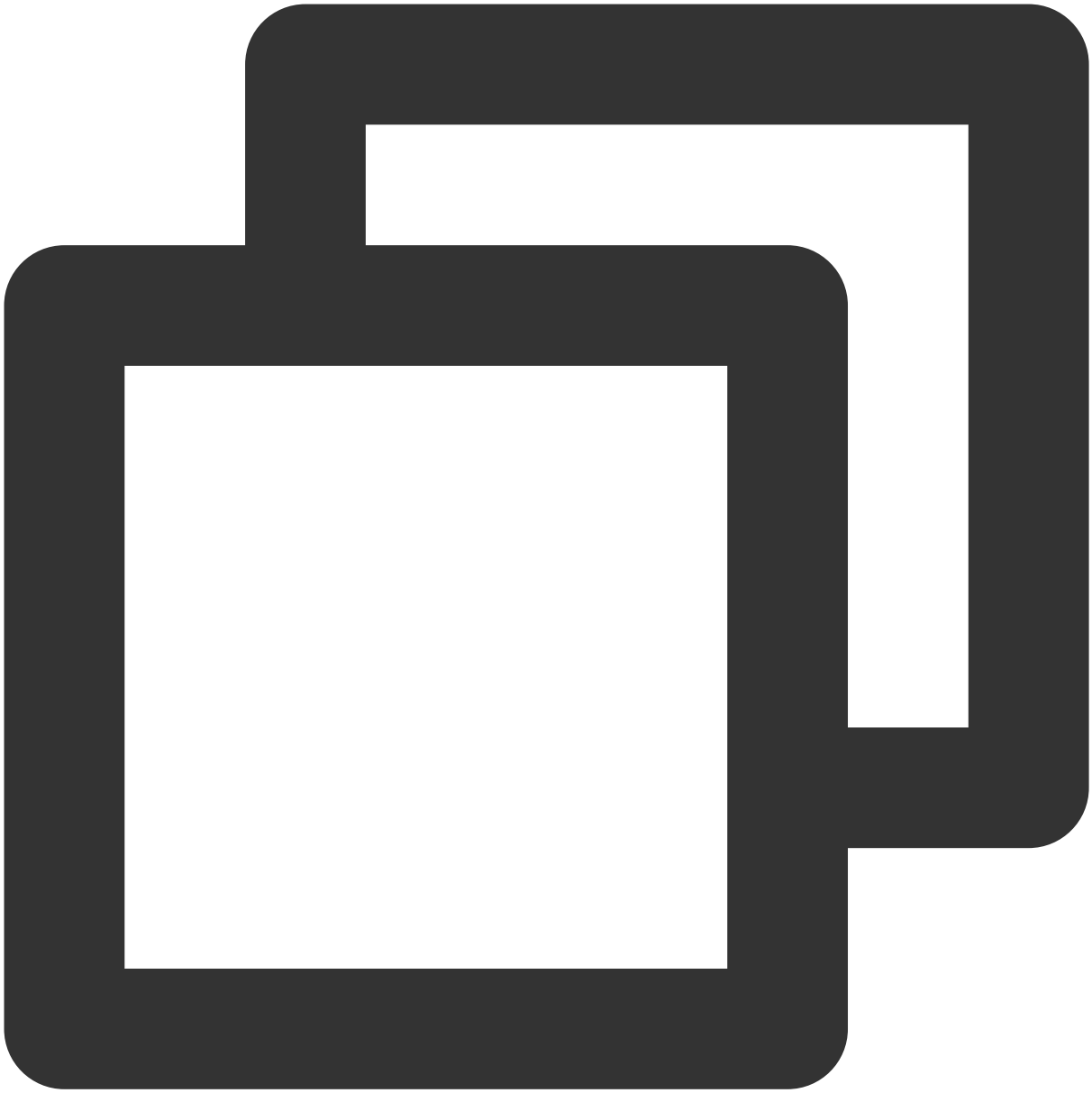

```
POST /ai_bucket HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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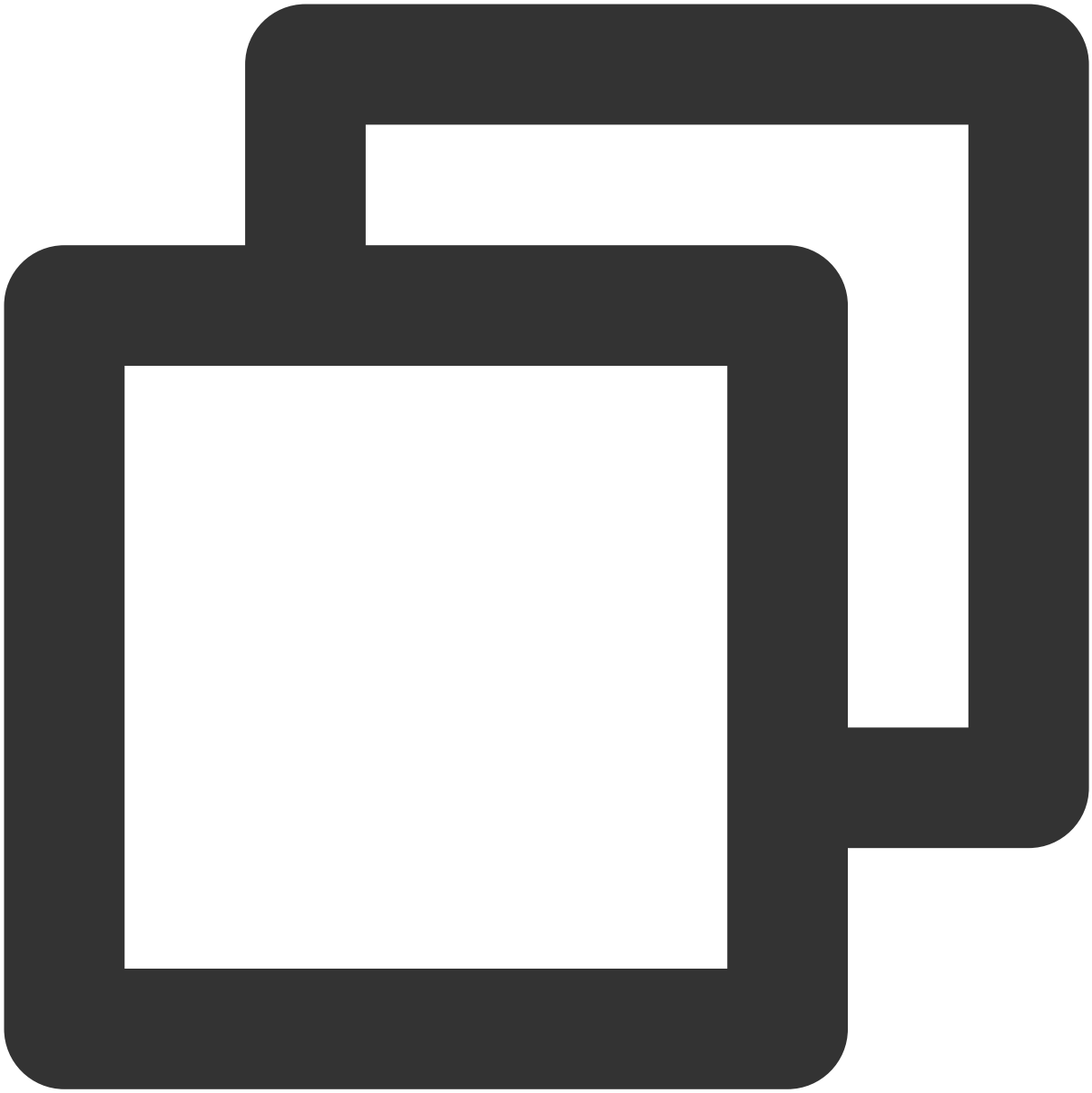

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 09 Aug 2022 16:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjJmMzRlZGZfOTBmYTUwNjRfNzI0MV8x

<Response>
    <RequestId>NjJmMzRlZGZfOTBmYTUwNjRfNzI0MV8x</RequestId>
    <AiBucket>
```

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```
        <BucketId>test-1234567890</BucketId>
        <Name>test-1234567890</Name>
        <Region>ap-chongqing</Region>
        <CreateTime2022-08-09T16:23:11+0800></CreateTime>
    </AiBucket>
</Response>
```

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Querying AI-Based Content Recognition

Last updated：2024-06-12 15:20:05

Feature Description

This API is used to query the status of the AI-based content recognition service.

Request

Sample request

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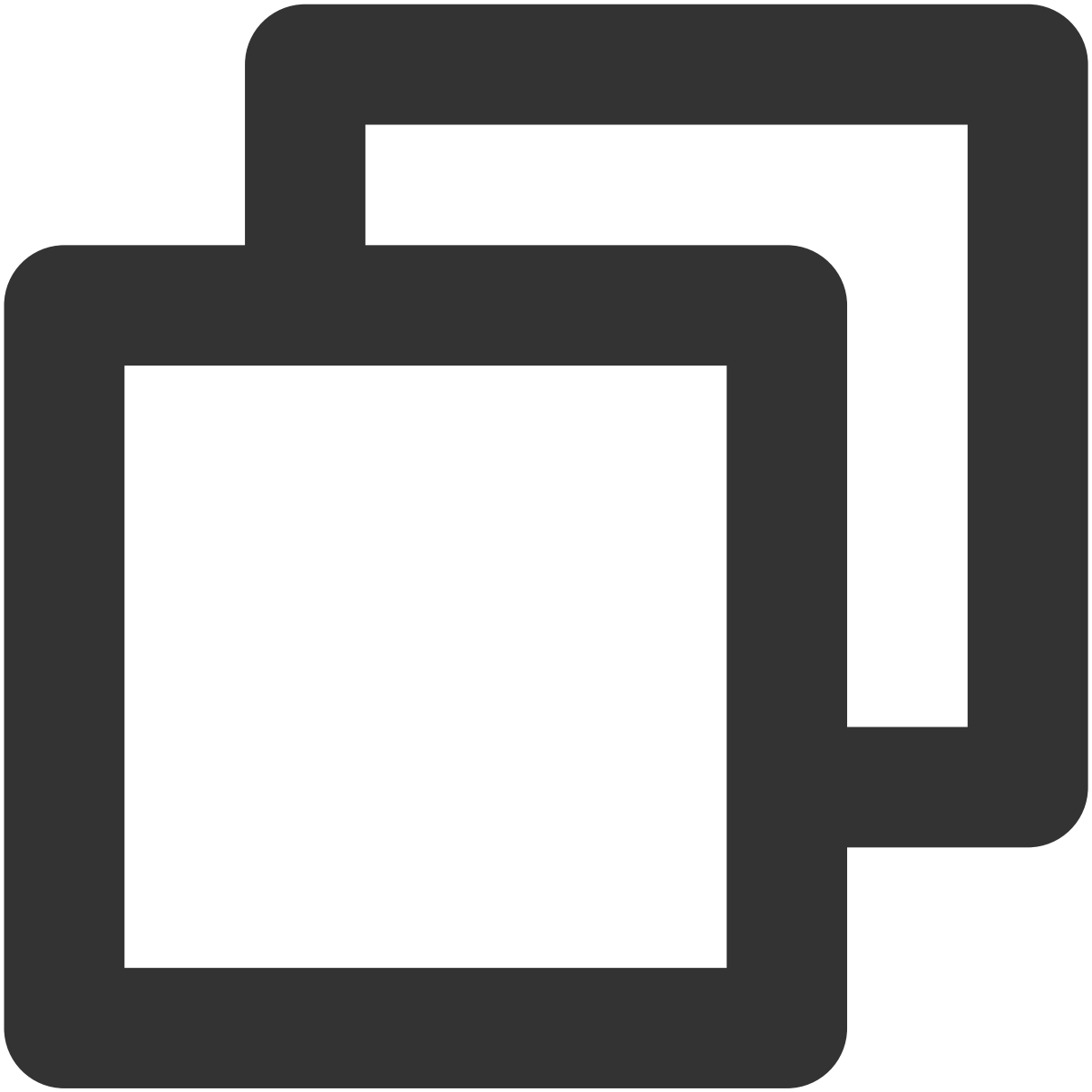

```
GET /ai_bucket HTTP/1.1
Host: ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

Parameter	Description	Type	Required
regions	Region information, such as `ap-shanghai` and `ap-beijing`. To specify multiple regions, separate them by comma. For more information, see Regions and Domain Names.	string	No
bucketNames	Bucket name. To specify multiple bucket names, separate them by comma. Exact search is supported.	string	No
bucketName	Bucket name prefix for prefix search.	string	No
pageNumber	Page number. Default value: `1`.	String	No
pageSize	Number of entries per page. Default value: `10`.	String	No

Response

Response headers

This API only returns common response headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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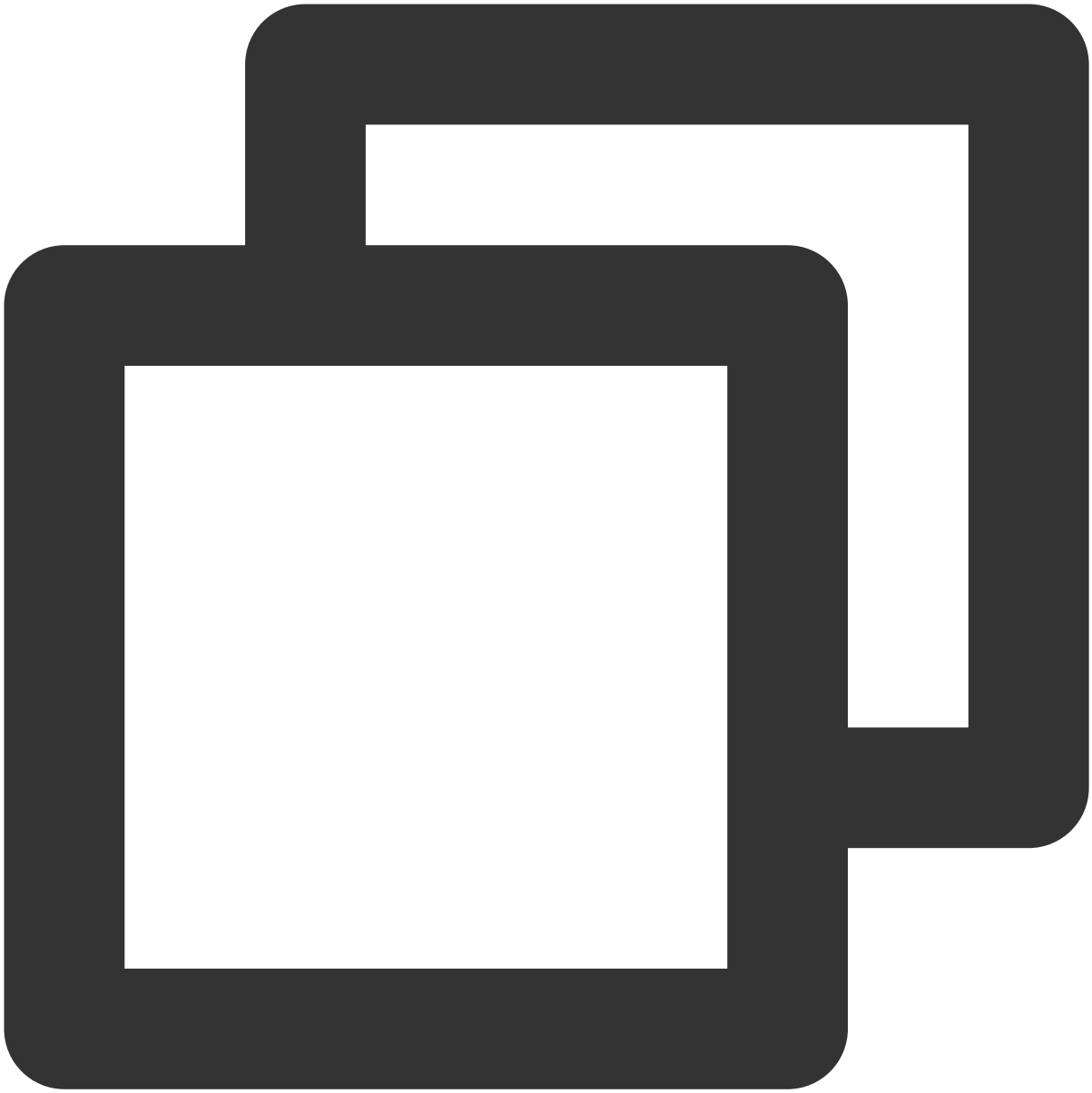

```
<Response>
    <RequestId>NjJmMzY1Y2NfOTBmYTUwNjRfNTA5YV8y</RequestId>
    <TotalCount>2</TotalCount>
    <PageNumber>1</PageNumber>
    <PageSize>5</PageSize>
    <AiBucketList>
        <BucketId>test-1234567890</BucketId>
        <Name>test-1234567890</Name>
        <Region>ap-chongqing</Region>
        <CreateTime2022-08-08T16:23:11+0800></CreateTime>
    </AiBucketList>
```

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```
    <AiBucketList>
        <BucketId>test-1-1234567890</BucketId>
        <Name>test-1-1234567890</Name>
        <Region>ap-chongqing</Region>
        <CreateTime2022-08-09T16:23:11+0800></CreateTime>
    </AiBucketList>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
TotalCount	Response	Total number of media buckets.	Int
PageNumber	Response	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Response	Number of entries per page, which is the same as `pageSize` in the request.	Int
AiBucketList	Response	Media bucket list.	Container

`AiBucketList` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
BucketId	Response.AiBucketList	Bucket ID.	String
Name	Response.AiBucketList	Bucket name, which is the same as `BucketId` .	String
Region	Response.AiBucketList	Region.	String
CreateTime	Response.AiBucketList	Creation time.	String

Error codes

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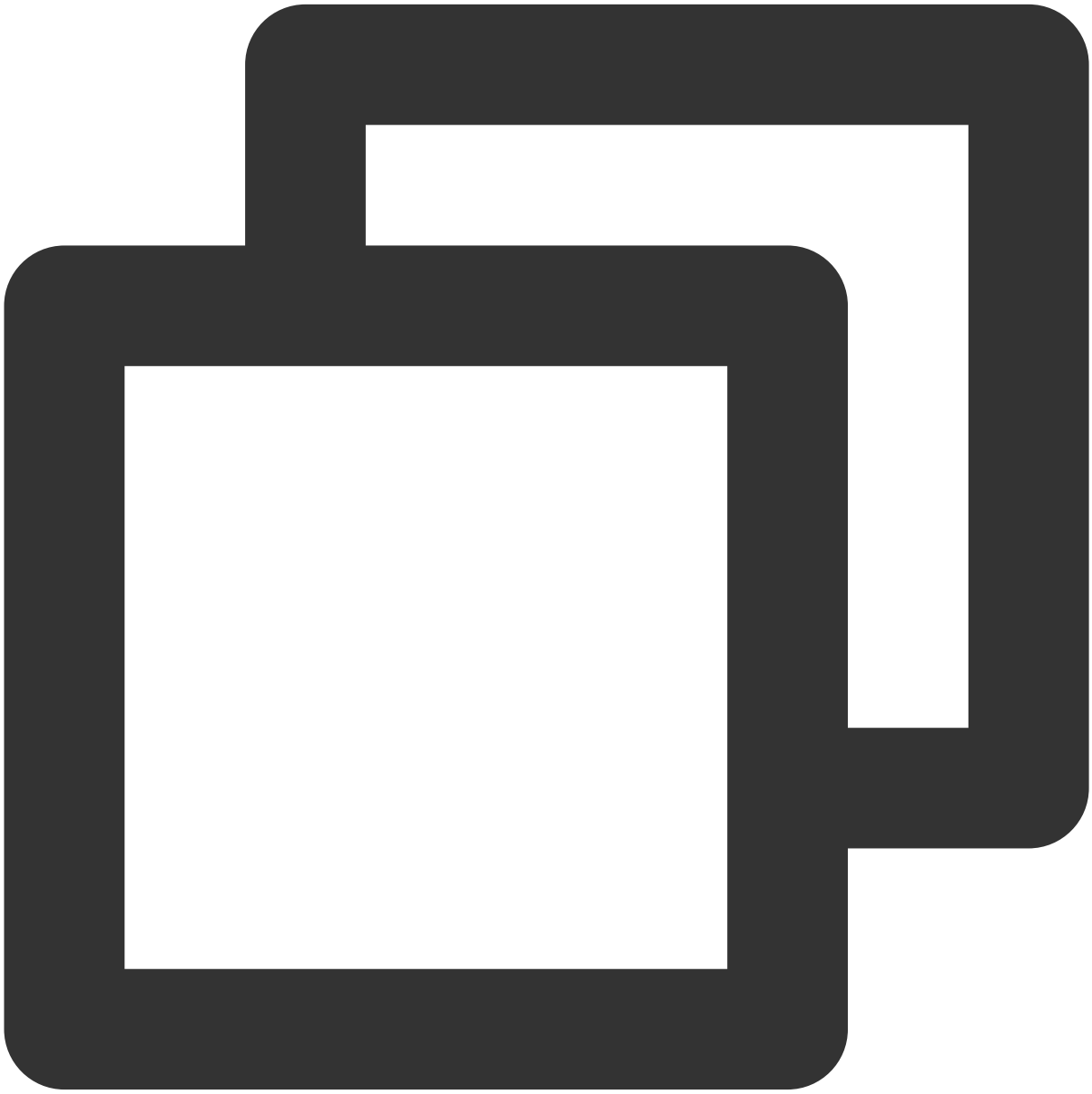
There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request



```
GET /ai_bucket?regions=ap-chongqing&pageSize=5&bucketName=t HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

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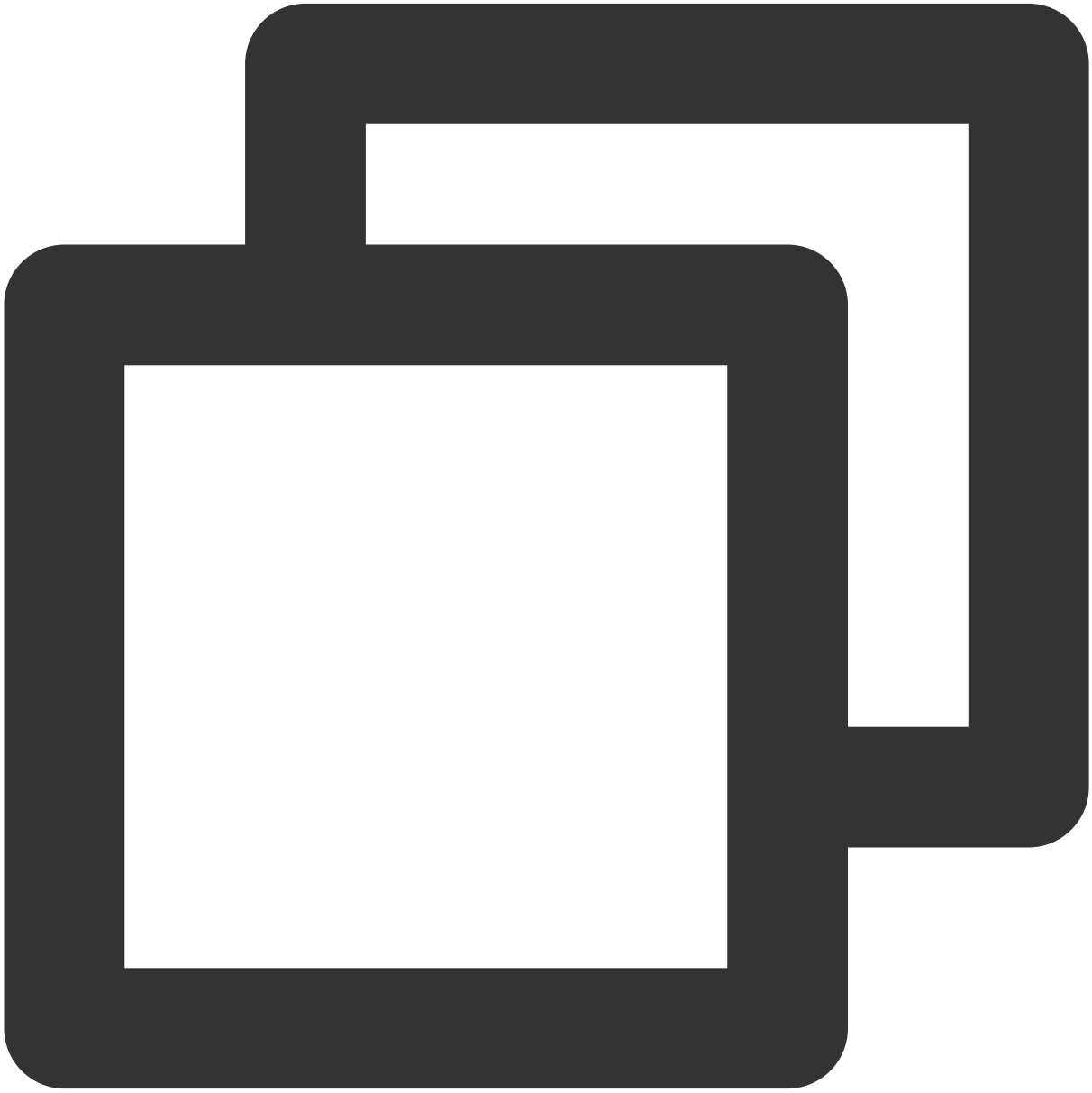
```
Content-Length: 0
Content-Type: application/xml
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 09 Aug 2022 16:23:12 GMT
```

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```
Server: tencent-ci
x-ci-request-id: NjJmMzY1Y2NfOTBmYTUwNjRfNTA5YV8y

<Response>
    <RequestId>NjJmMzY1Y2NfOTBmYTUwNjRfNTA5YV8y</RequestId>
    <TotalCount>2</TotalCount>
    <PageNumber>1</PageNumber>
    <PageSize>5</PageSize>
    <AiBucketList>
        <BucketId>test-1234567890</BucketId>
        <Name>test-1234567890</Name>
        <Region>ap-chongqing</Region>
        <CreateTime2022-08-08T16:23:11+0800></CreateTime>
    </AiBucketList>
    <AiBucketList>
        <BucketId>test-1-1234567890</BucketId>
        <Name>test-1-1234567890</Name>
        <Region>ap-chongqing</Region>
        <CreateTime2022-08-09T16:23:11+0800></CreateTime>
    </AiBucketList>
</Response>
```

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Media Processing
Media Bucket APIs
Querying Media Processing Activation Status

Last updated：2024-06-12 15:27:03

Overview

This API is used to query buckets with media processing enabled.

Request

Sample request

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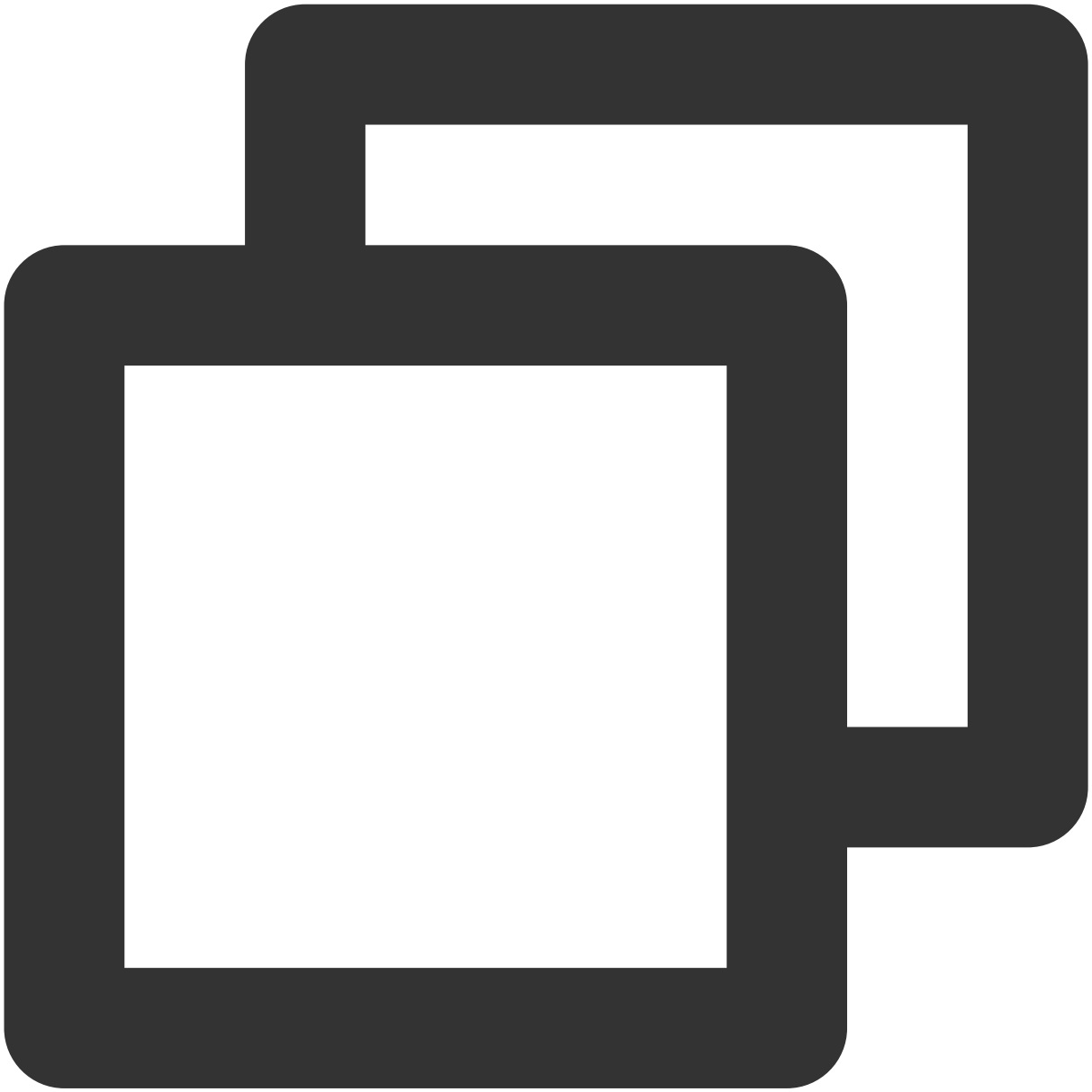

```
GET /mediabucket HTTP/1.1
Host: ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

Parameter	Description	Type	Required
regions	Region information, such as `ap-shanghai` and `ap-beijing`. To specify multiple regions, separate them with commas. For more information, see Regions and Domain Names.	string	No
bucketNames	Bucket name. To specify multiple bucket names, separate them with commas. Exact search is supported.	string	No
bucketName	Bucket name prefix for prefix search.	string	No
pageNumber	Page number.	string	No
pageSize	Number of entries per page.	string	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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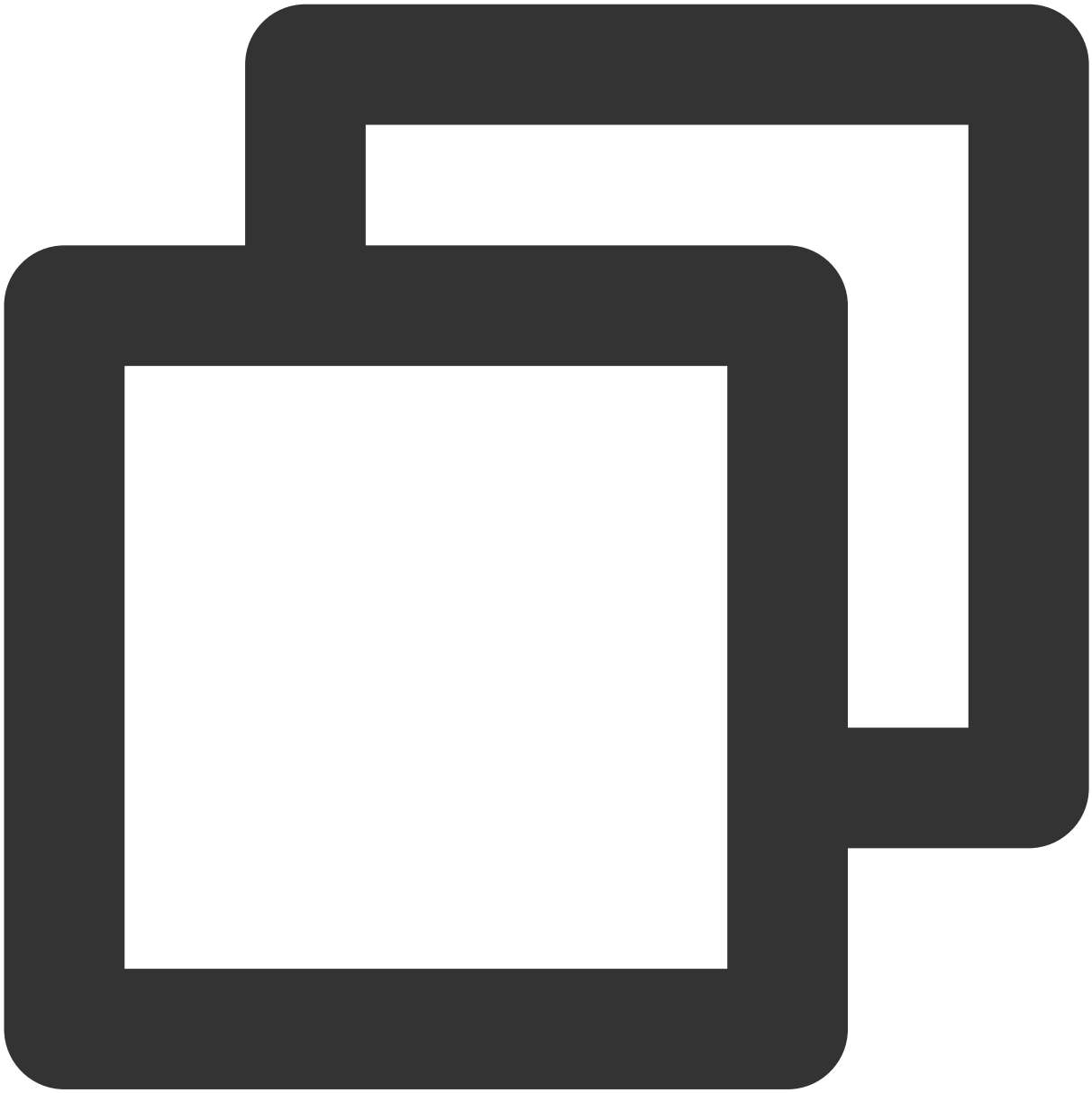

```
<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <TotalCount>1</TotalCount>
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <MediaBucketList>
        <BucketId></BucketId>
        <Region></Region>
        <CreateTime></CreateTime>
    </MediaBucketList>
</Response>
```

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The specific data is as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
TotalCount	Response	Total number of media buckets.	Int
PageNumber	Response	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Response	Number of entries per page, which is the same as `pageSize` in the request.	Int
MediaBucketList	Response	Media bucket list.	Container

`MediaBucketList` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
BucketId	Response.MediaBucketList	Bucket ID.	String
Name	Response.MediaBucketList	Bucket name, which is the same as `BucketId`.	String
Region	Response.MediaBucketList	Bucket region.	String
CreateTime	Response.MediaBucketList	Bucket creation time.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Use Cases

Request

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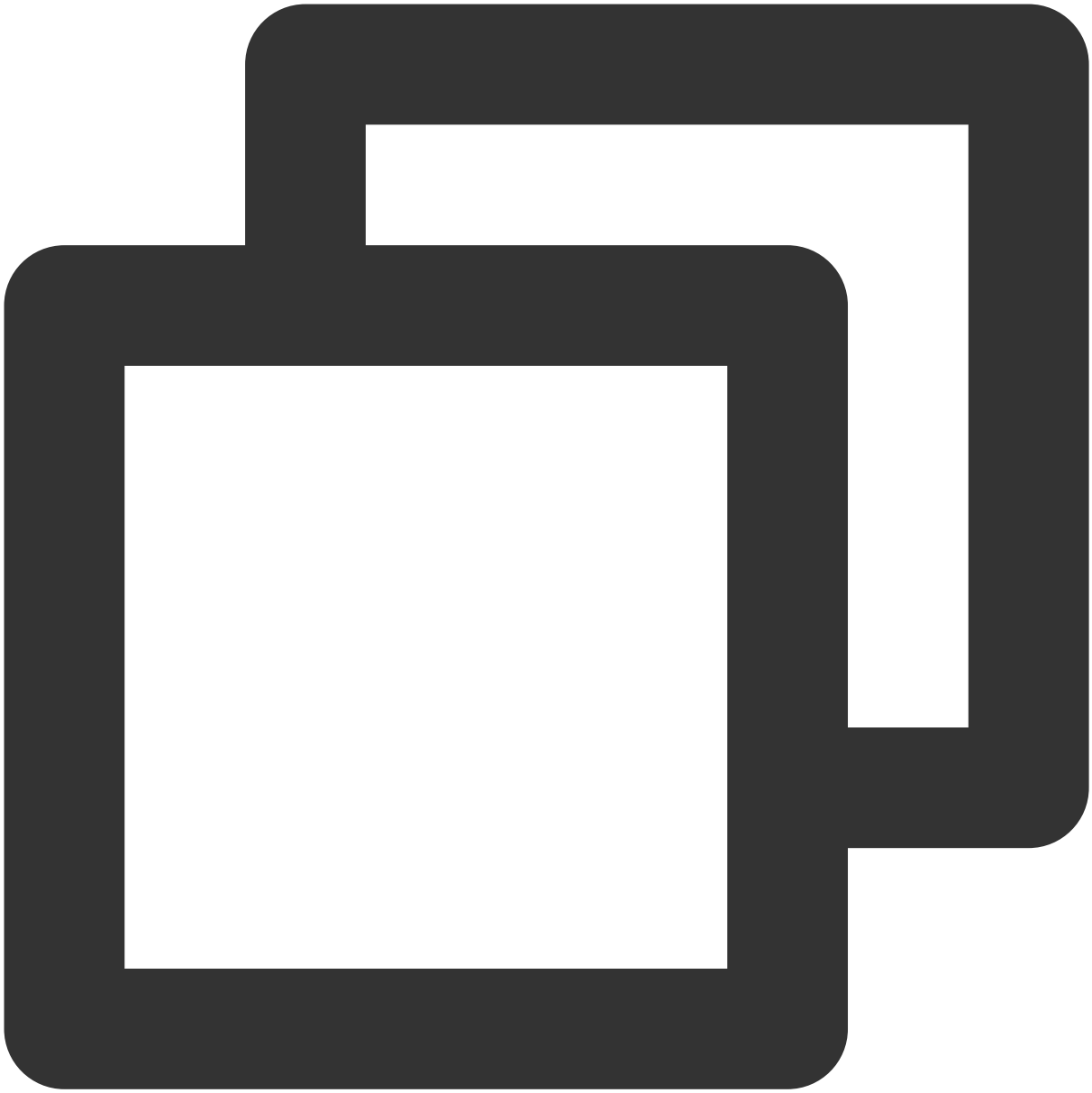

```
GET /mediabucket HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host: ci.ap-beijing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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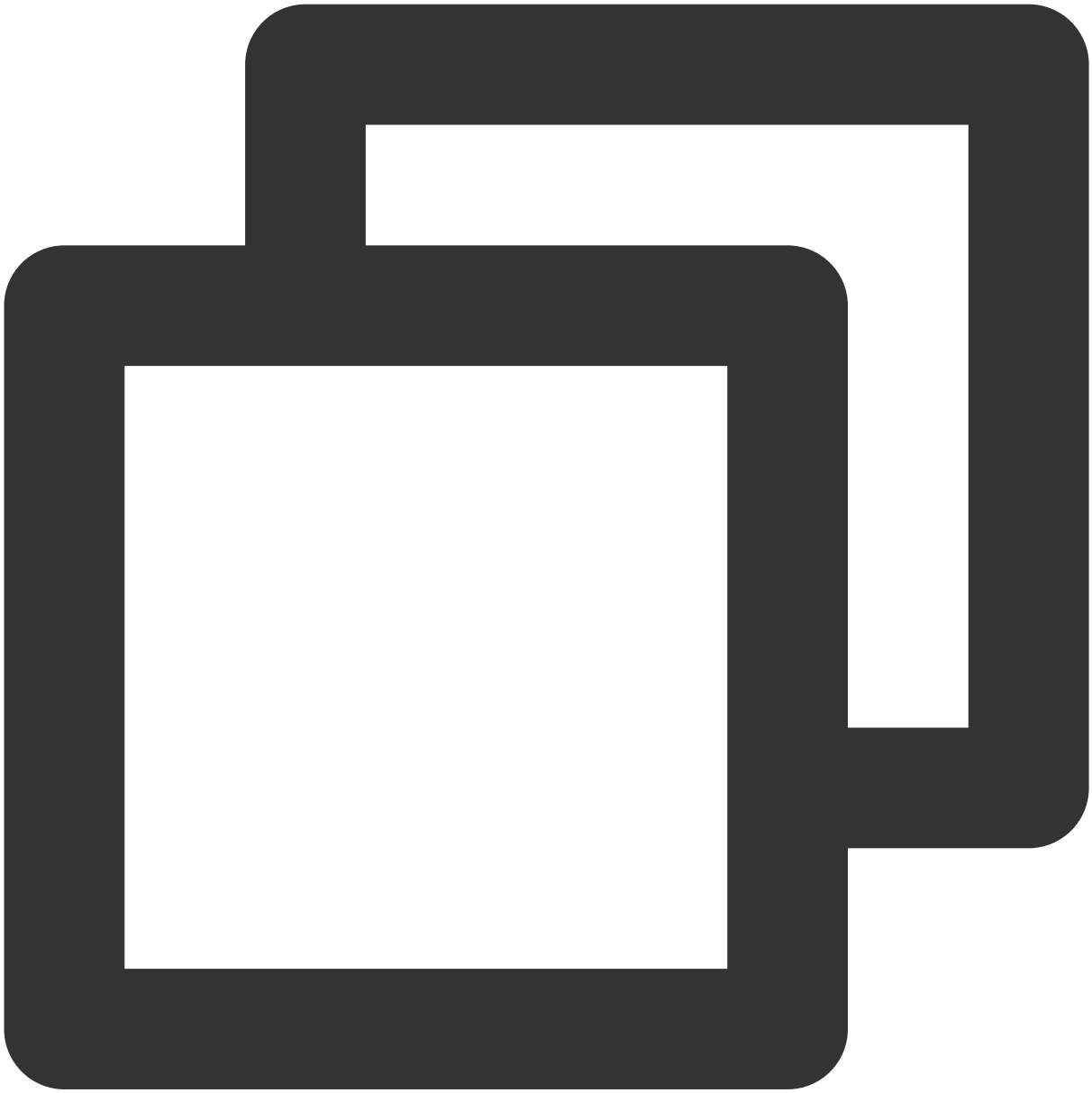

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****



<Response>
```

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```
        <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
        <TotalCount>1</TotalCount>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <MediaBucketList>
              <BucketId></BucketId>
              <Region></Region>
              <CreateTime></CreateTime>
        </MediaBucketList>
        <MediaBucketList>
              <BucketId></BucketId>
              <Region></Region>
              <CreateTime></CreateTime>
        </MediaBucketList>
</Response>
```

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Activating Media Processing

Last updated：2024-06-12 15:27:03

Feature Description

This API (`CreateMediaBucket`) is used to bind a media bucket (i.e., authorizing the media processing service role to access the bucket).

Request

Sample request

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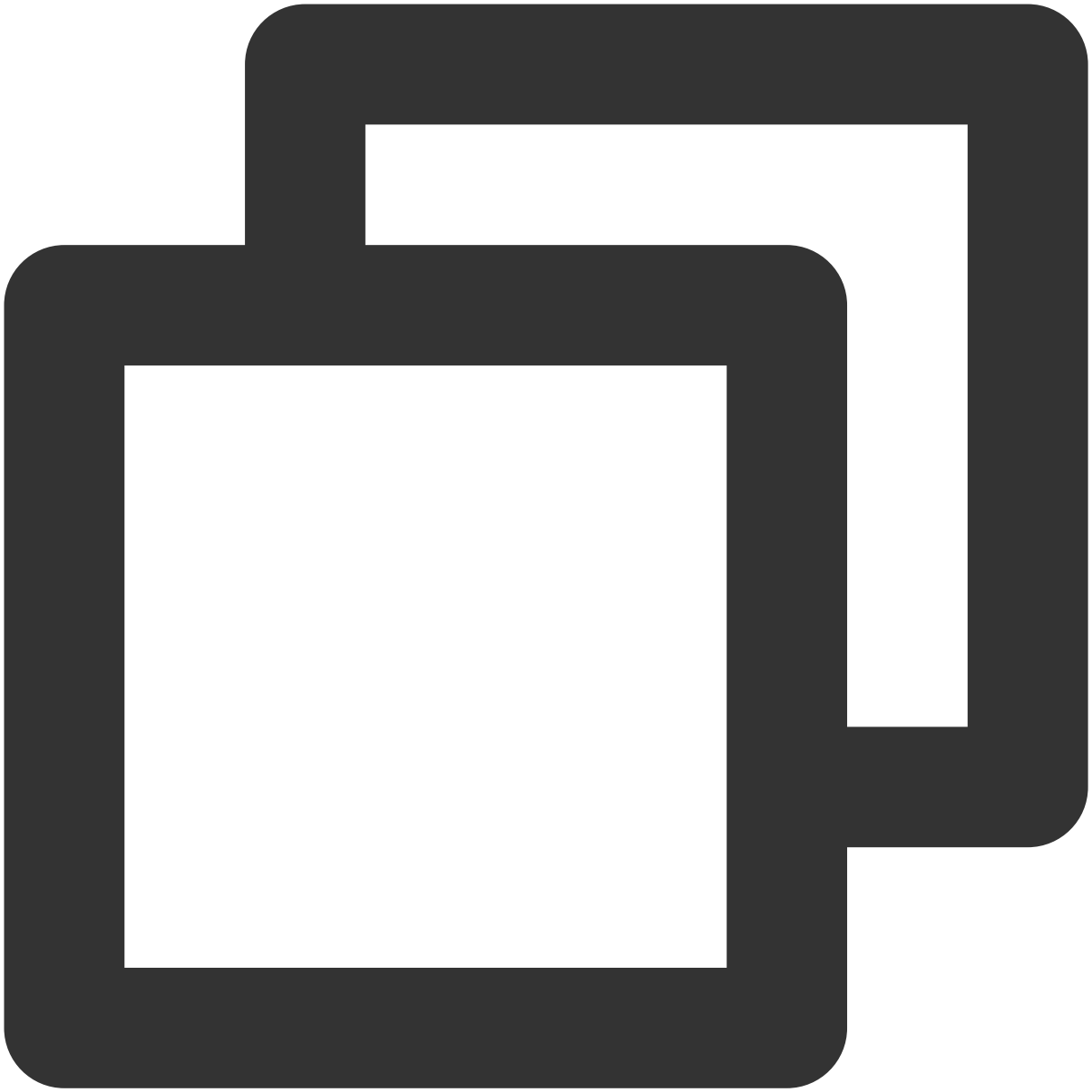

```
POST /mediabucket HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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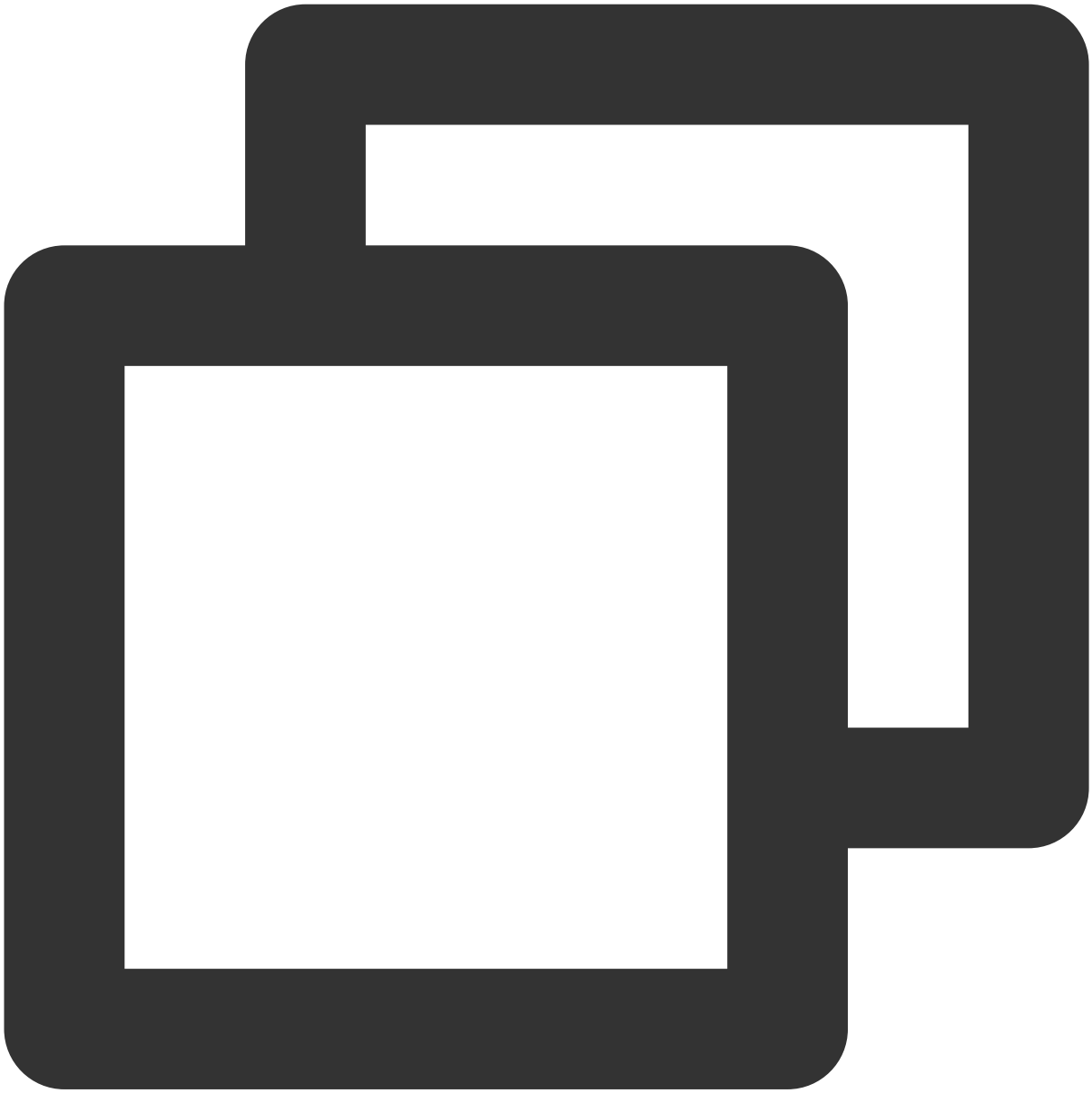

```
<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <MediaBucket>
        <BucketId></BucketId>
        <Region></Region>
        <CreateTime></CreateTime>
    </MediaBucket>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
MediaBucket	Response	Media bucket details. Same as `Response.MediaBucketList` in DescribeMediaBuckets.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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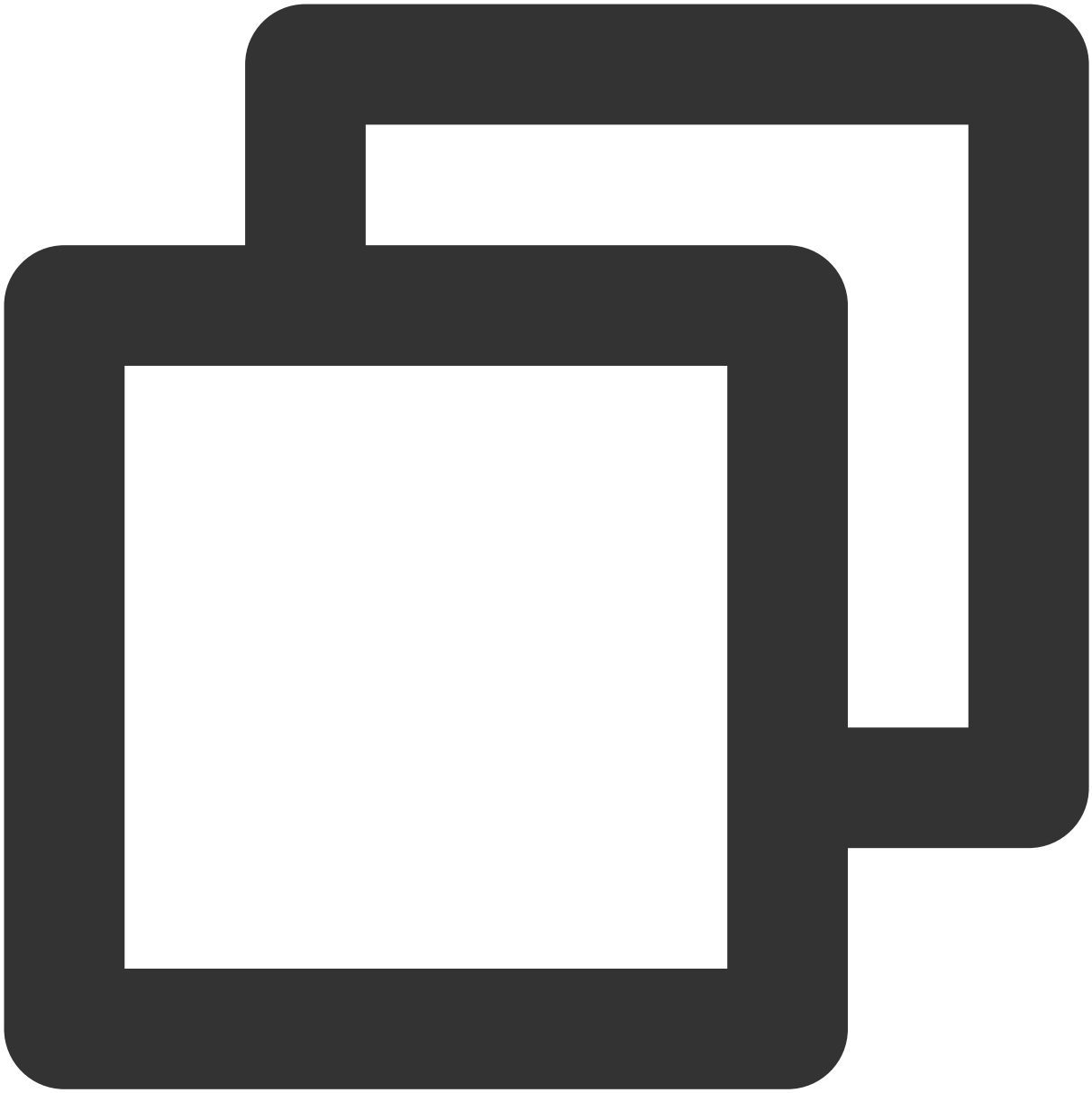

```
POST /mediabucket HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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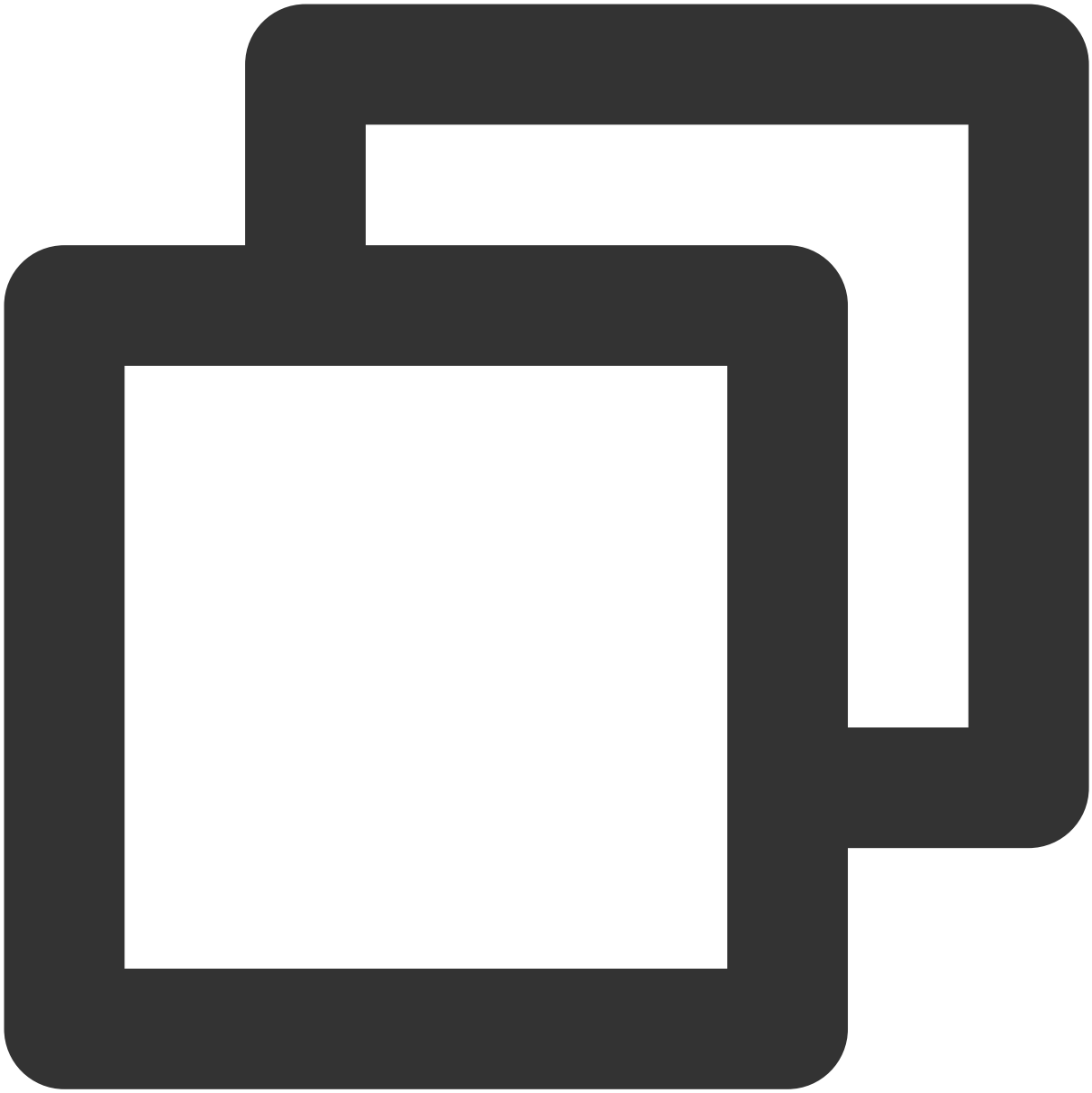

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <MediaBucket>
```

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```
        <BucketId>examplebucket-1250000000</BucketId>
        <Region>ap-beijing</Region>
        <CreateTime>2019-11-15T12:12:12+0800</CreateTime>
    </MediaBucket>
</Response>
```

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Media Screenshot API
Getting Media File Screenshot

Last updated：2024-06-12 15:27:03

Feature Description

This API (`GetSnapshot`) is used to get a screenshot of a media file at some time point.

Instructions

This API is in sync mode. For the async mode, see Job APIs - Screencapturing.

Sample Request

1. Via GET request

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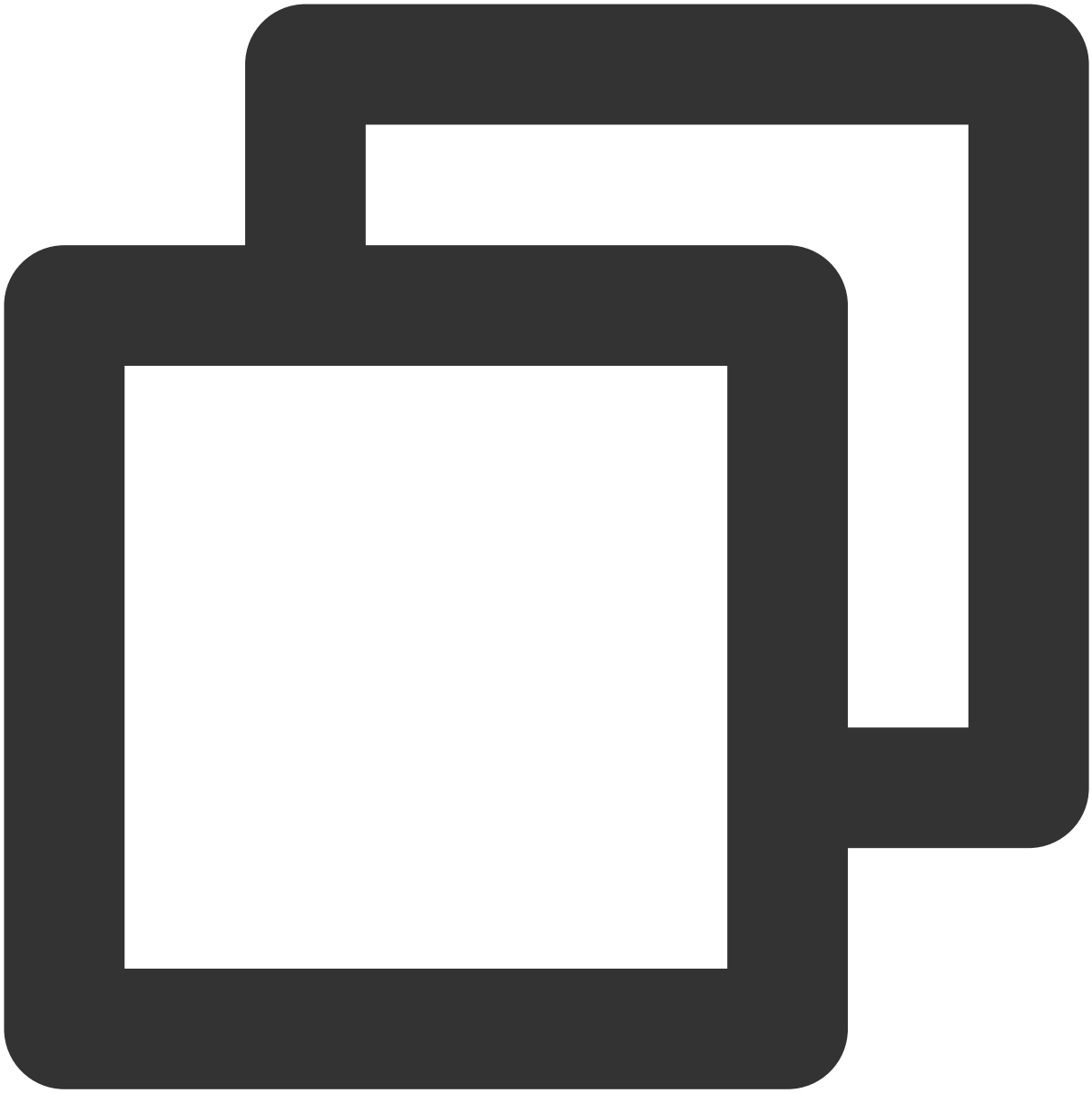

```
GET /for-test.mp4?ci-process=snapshot&time=1&format=jpg HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
```

2. Via adding parameters to URL

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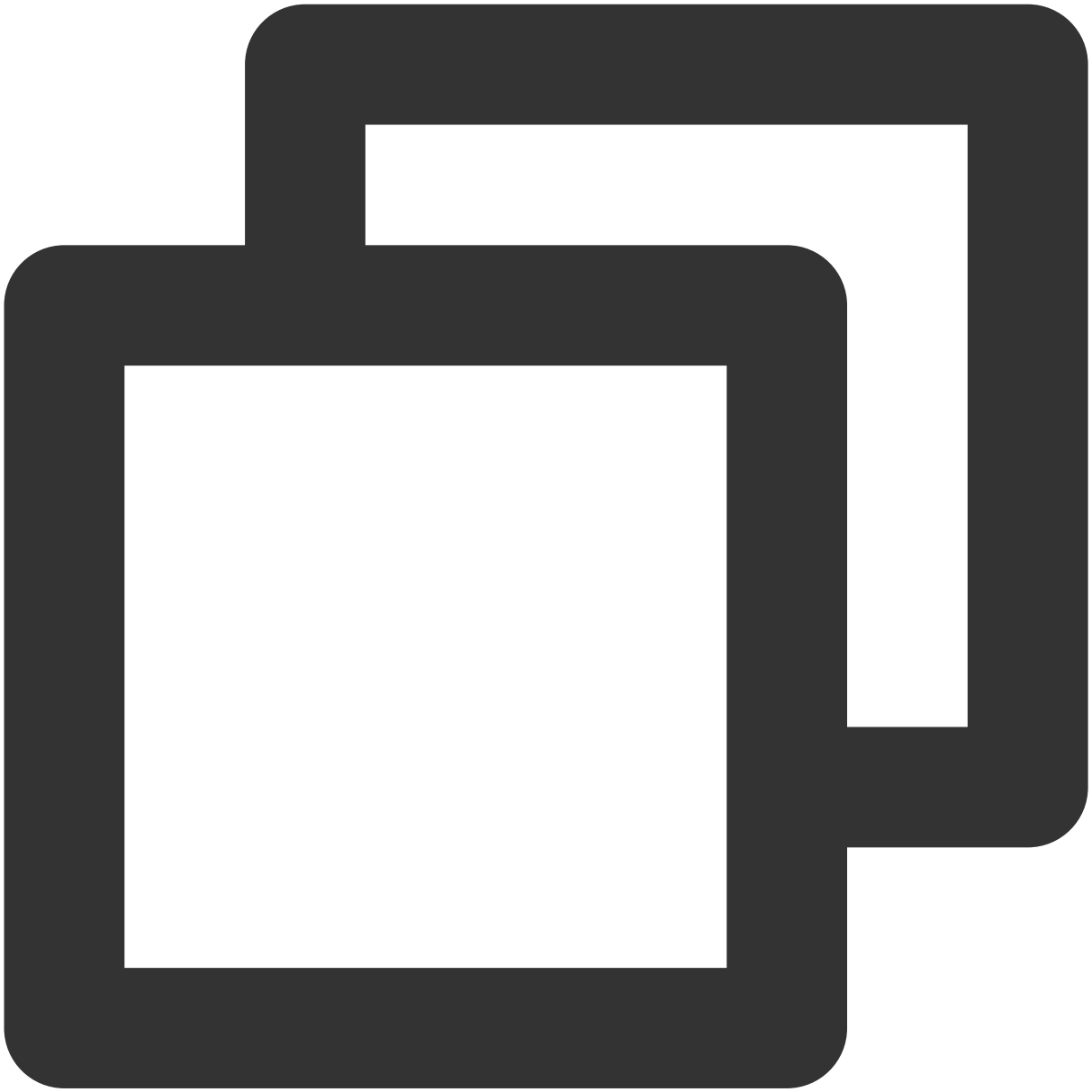

```
https://<BucketName-APPID>.cos.<Region>.myqcloud.com/for-test.mp4?ci-process=snapsh
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

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Request parameters

The parameters are described as follows:

Parameter	Description	Type	Required
ci-process	Operation type, which is fixed at `snapshot`.	String	Yes
time	Screenshot time point in seconds.	float	Yes
width	Screenshot width. Default value: 0	Int	No
height	Screenshot height. Default value: 0. If `width` and `height` are both `0`, the width and height of the video are used. If one of them is `0`, the other value is used to automatically adapt to the aspect ratio of the video.	Int	No
format	Screenshot format. Valid values: jpg, png. Default value: jpg	String	No
rotate	Image rotation method auto: Rotate automatically according to the video rotation information. off: Do not rotate. Default value: auto.	String	No
mode	Frame capturing method keyframe: Capture the last keyframe before the specified time point. exactframe: Capture the frame at a specified time point. Default value: exactframe.	String	No

Request body

This request does not have a request body.

Response

Response headers

This response contains common response headers. For more information, see Common Response Headers.

Response body

The response body is the screenshot file content.

Error codes

There are no special error messages for this request operation. For common error messages, see Error Codes.

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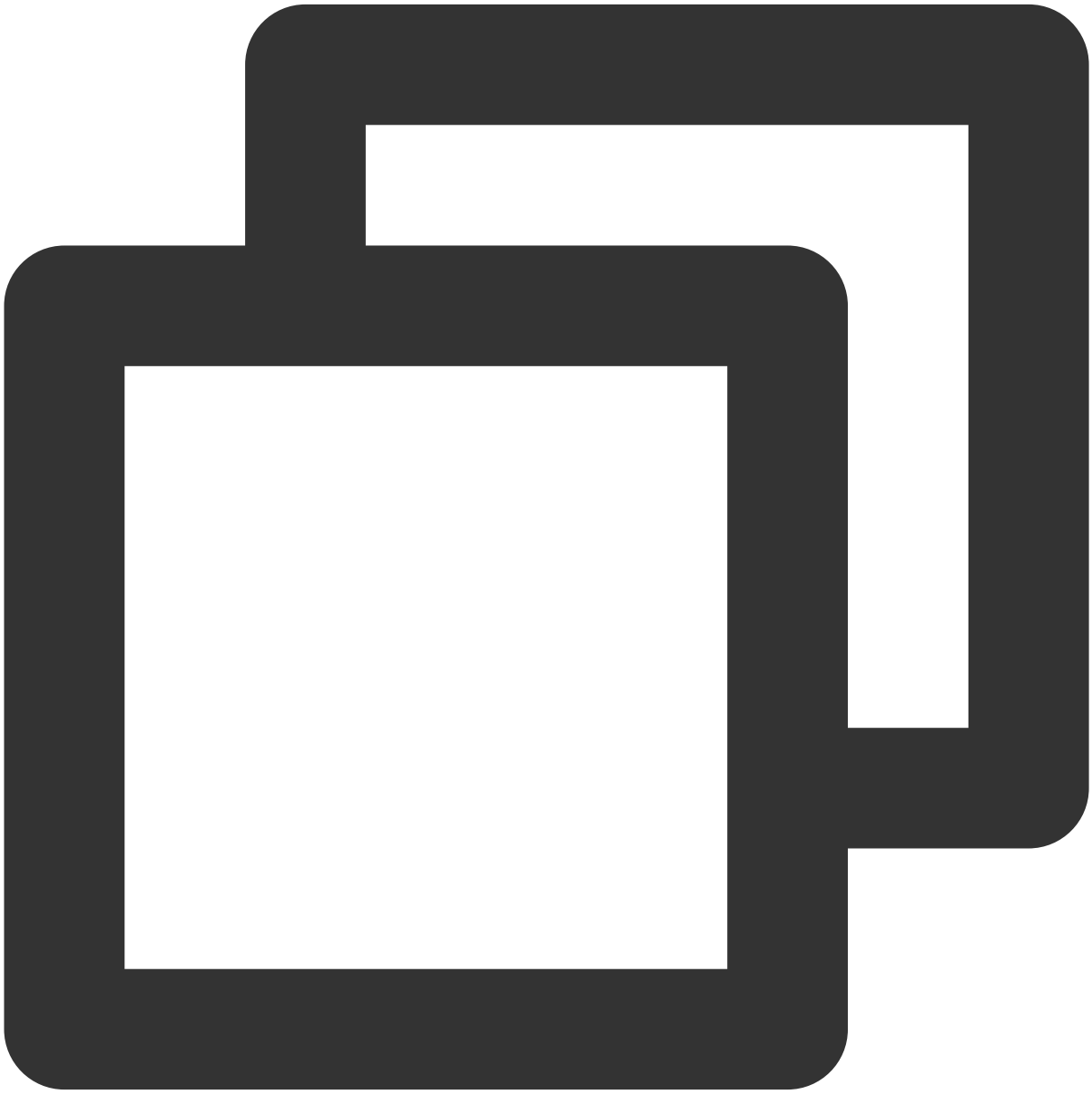
Samples

Request 1. GET request



```
GET /for-test.mp4?ci-process=snapshot&time=1.5 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Mar 2016 09:45:46 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfG****-si
Content-Length: 0
```

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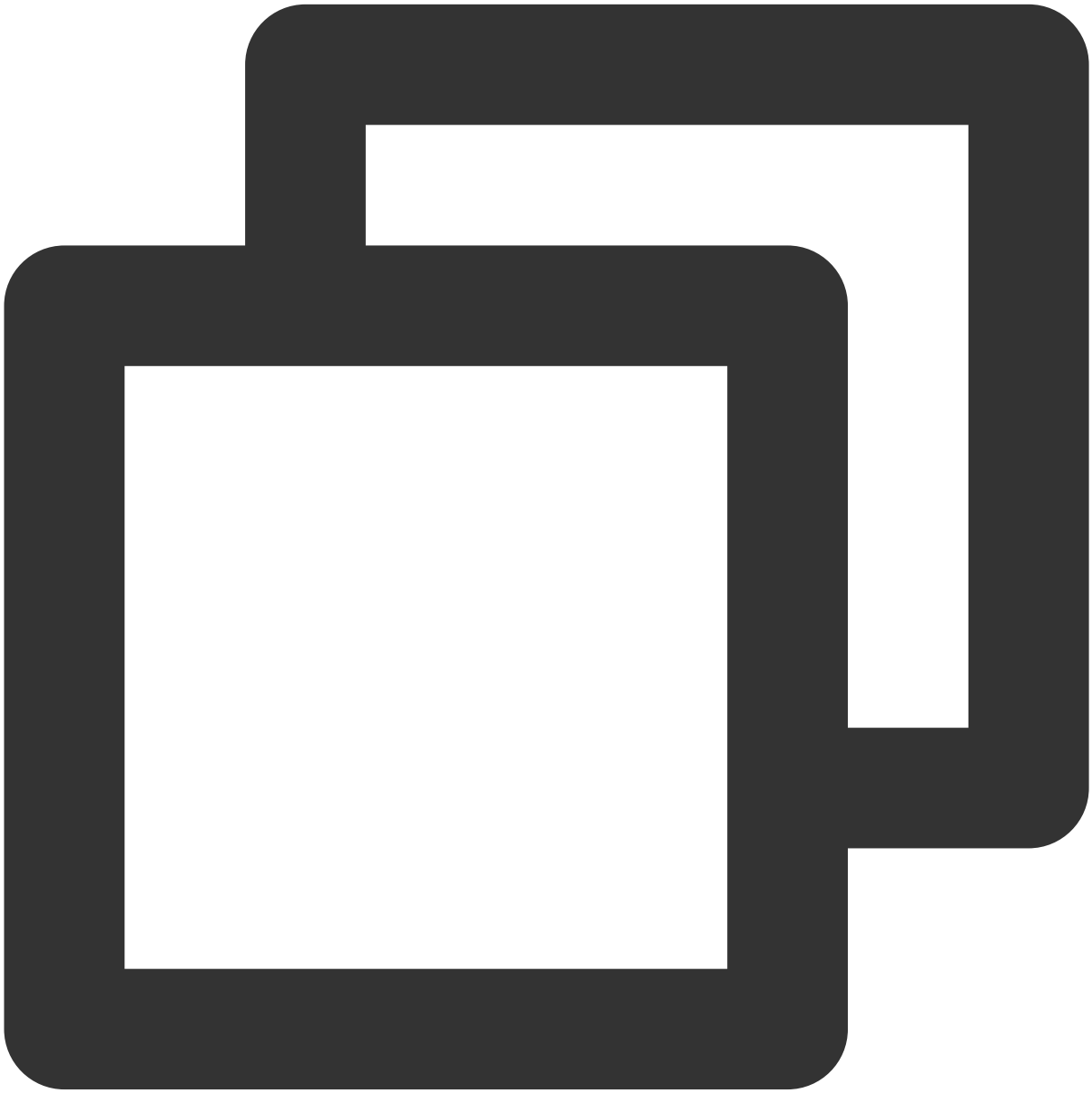
Request 2. Adding parameters to URL



```
https://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/for-test.mp4?ci-proces
```

Response

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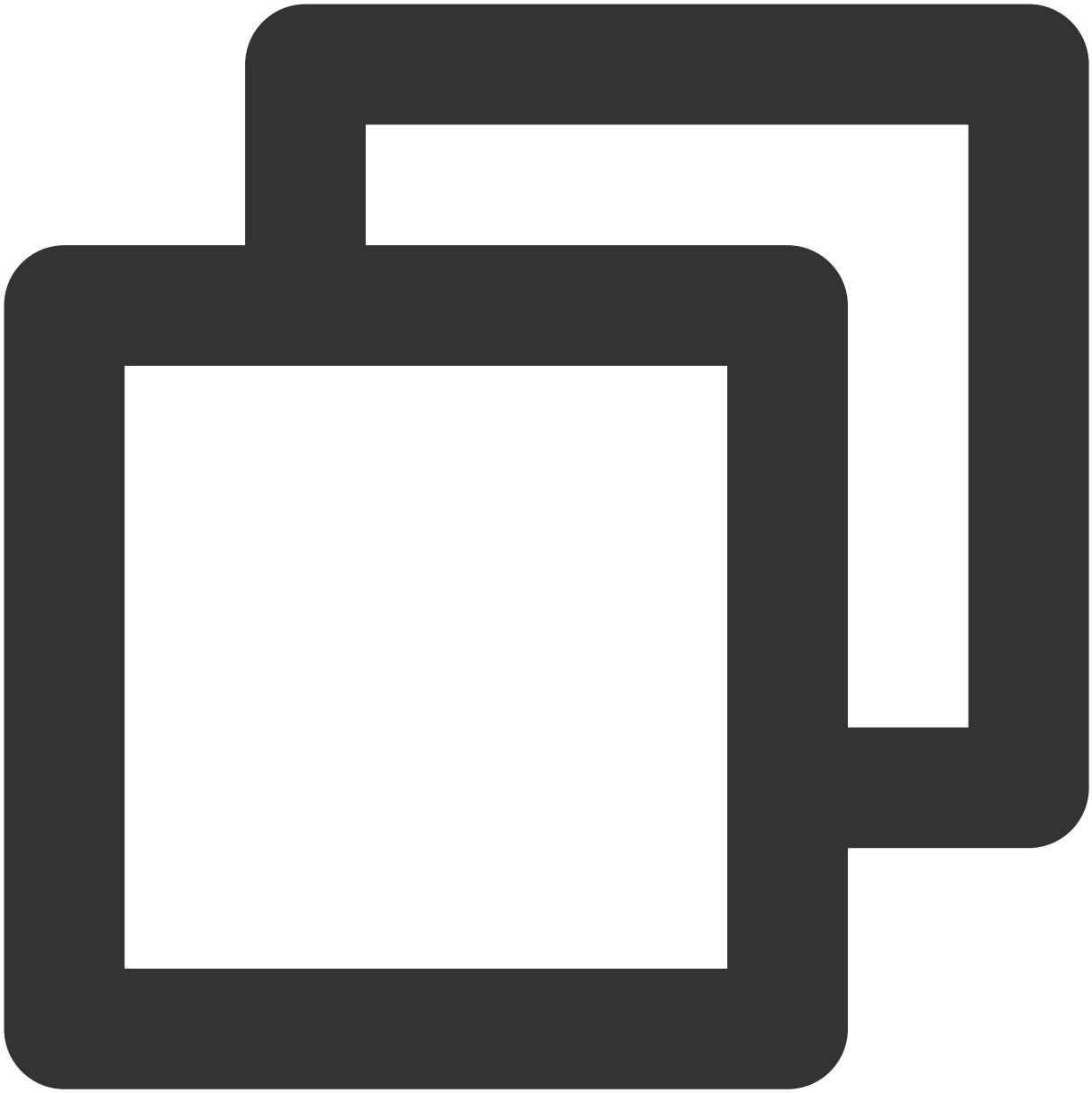

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 266005
Connection: keep-alive
Date: Fri, 10 Mar 2016 09:45:46 GMT
Server: tencent-cos
x-cos-request-id: NTg3NzRiMjVfYmRjMzVfMTViMl82ZGZmNw==



<Image content>
```

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Getting Media File Screenshot (CI Domain Name)

Last updated：2024-06-12 15:27:03

Feature Description

This API (`GenerateSnapshot`) is used to get a screenshot of a media file at some time point. All output screenshots are in JPEG format.

Request

Sample request

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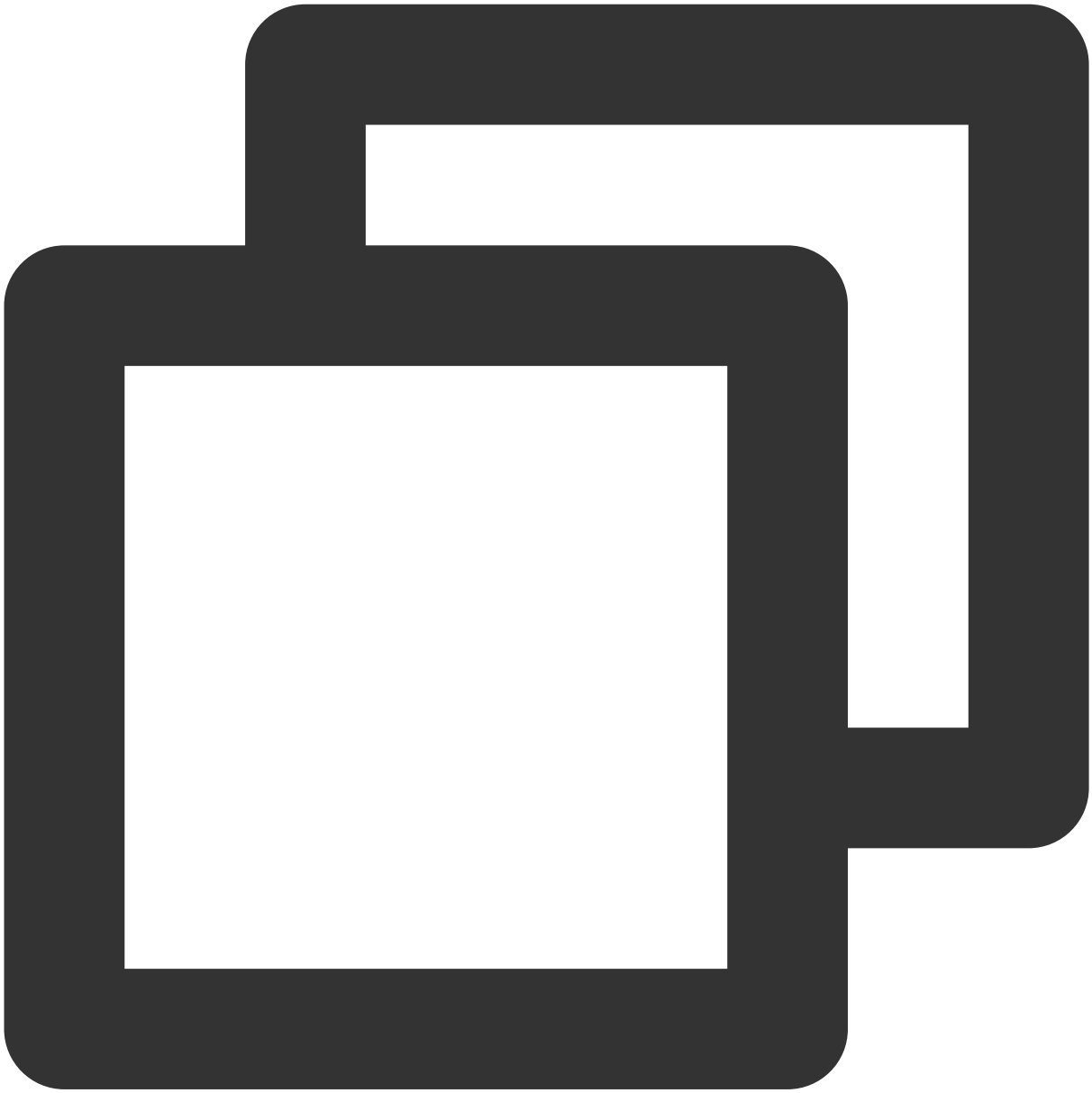

```
POST /snapshot HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-type: application/xml

<body>
```

Note:

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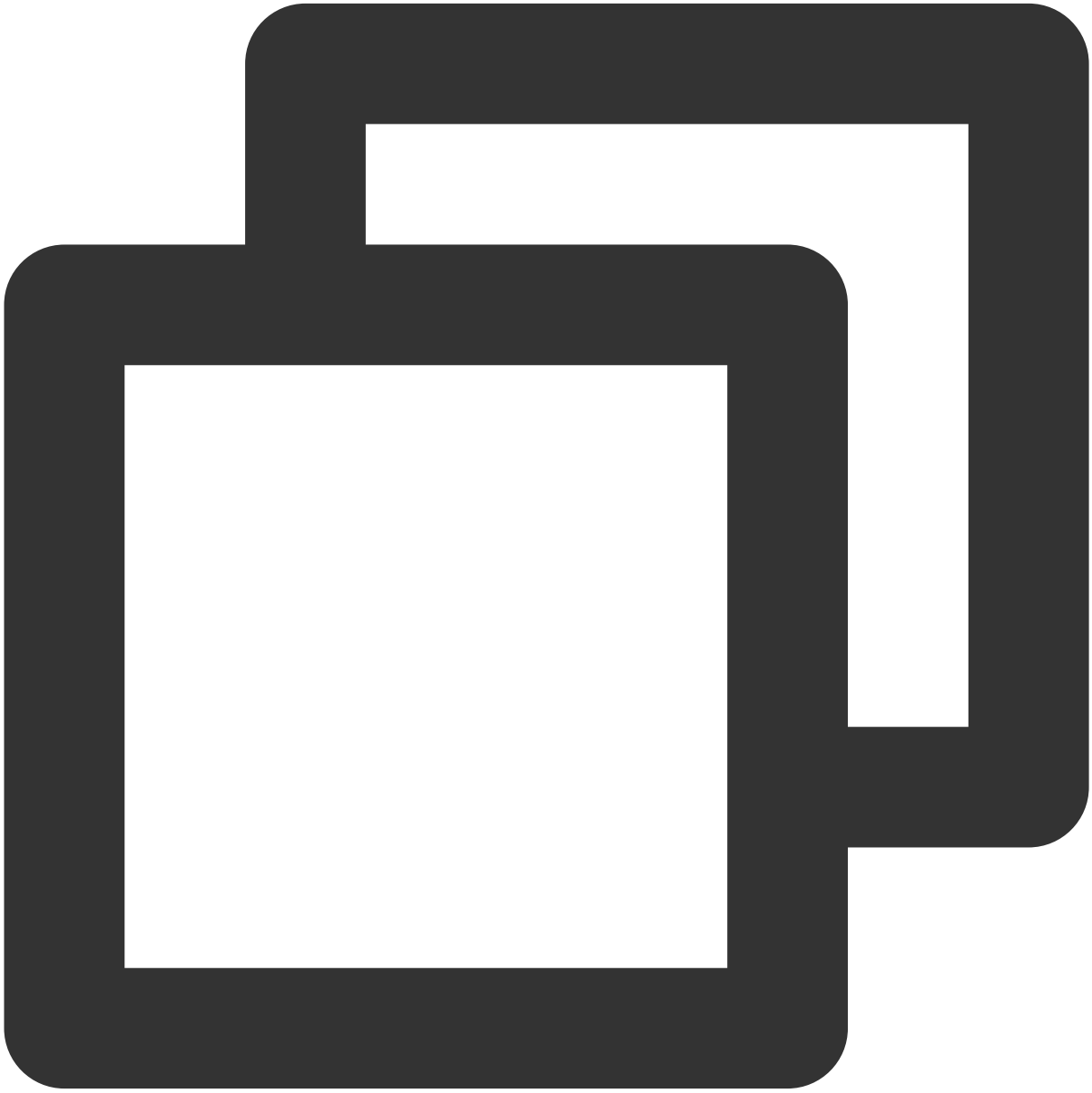
Authorization: Auth String (for more information, see Request Signature).

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

Nodes of the request body for this API are as follows:



```
<Request>
  <Input>
```

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```
    <Object></Object>
  </Input>
  <Time></Time>
  <Width></Width>
  <Height></Height>
  <Mode></Mode>
  <Rotate></Rotate>
  <Format></Format>
  <Output>
    <Region></Region>
    <Bucket></Bucket>
    <Object></Object>
  </Output>
</Request>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	`Generate Snapshot` request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Input	Request	Media file location information.	Container	Yes
Time	Request	Screenshot time point in seconds.	Float	Yes
Output	Request	Screenshot storage location information.	Container	Yes
Width	Request	Screenshot width. Default value: 0.	Int	No
Height	Request	Screenshot height. Default value: 0. If `Width` and `Height` are both `0`, the width and height of the video are used. If one of them is `0`, the other value is used to automatically adapt to the aspect ratio of the video.	Int	No
Format	Request	Screenshot format. Valid values: jpg, png. Default value: jpg.	String	No
Mode	Request	Frame capturing method:	String	No

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		keyframe: Capture the last keyframe before the specified time point. exactframe: Capture the frame at a specified time point. Default value: exactframe		
Rotate	Request	Image rotation method: auto: Rotate automatically according to the video rotation information. off: Do not rotate. Default value: auto	String	No

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Filename	String	Yes

`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Region	Request.Output	Bucket region	String	Yes
Bucket	Request.Output	File bucket	String	Yes
Object	Request.Output	Filename	String	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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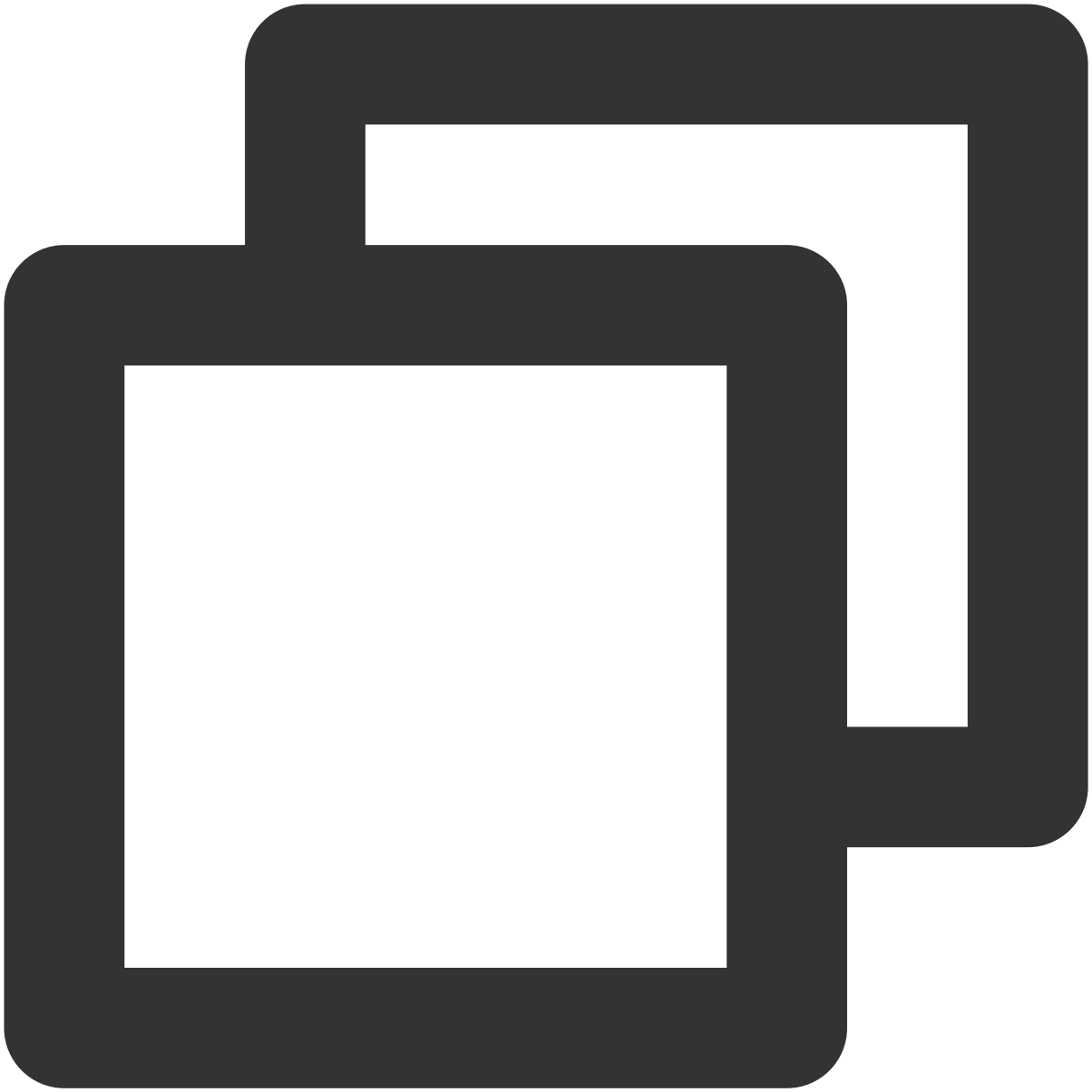

```
<Response>
  <Output>
    <Region></Region>
    <Bucket></Bucket>
    <Object></Object>
  </Output>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type

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Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Output	Request	Screenshot storage location information	Container

`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.Output	Bucket region	String
Bucket	Response.Output	File bucket	String
Object	Response.Output	Filename	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Use Cases

Request

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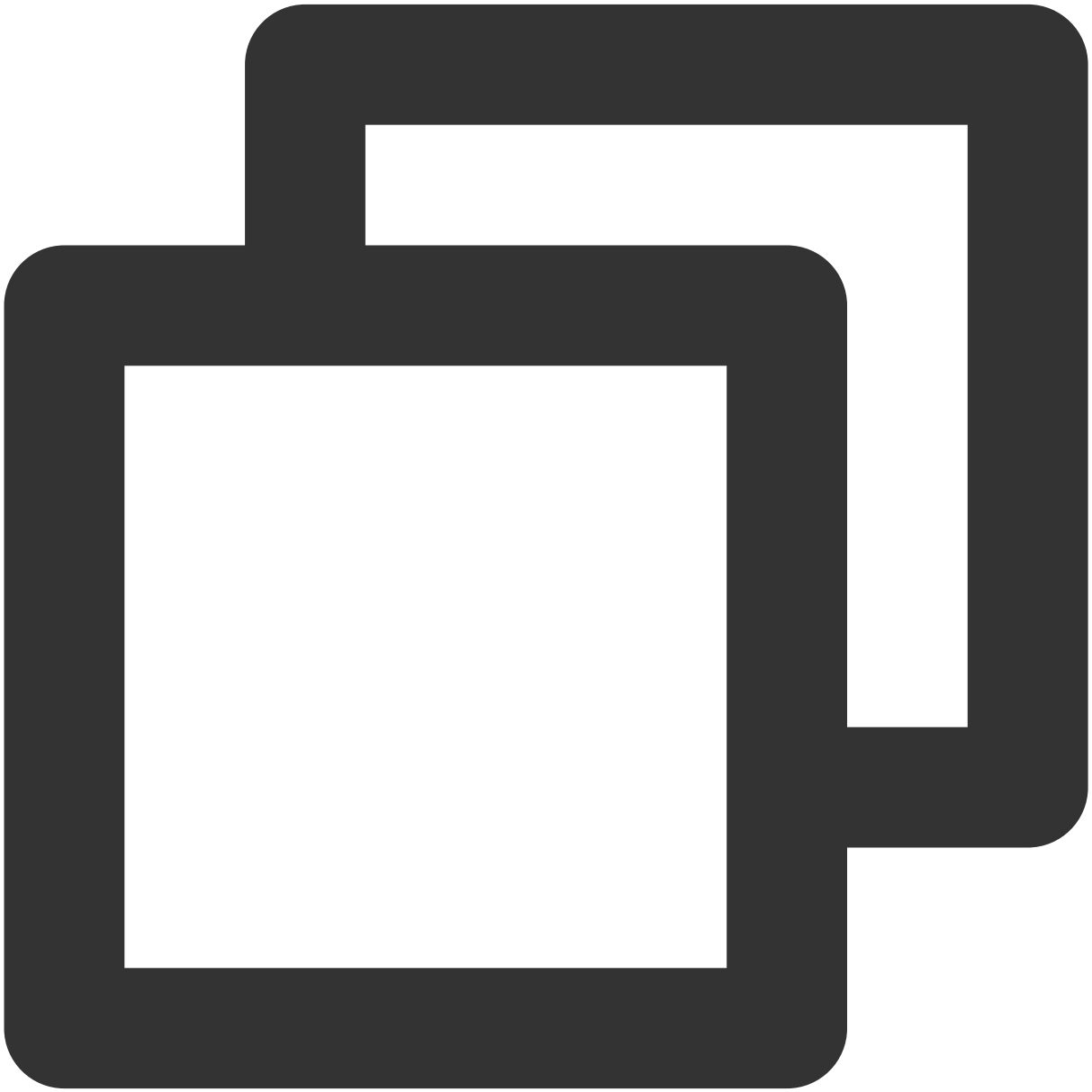

```
POST /snapshot HTTP/1.1
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Date: Fri, 10 Mar 2016 09:45:46 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUj****&q-si
Content-Length: 552
Content-Type: application/xml

<Request>
  <Input>
    <Object>video-for-test.mp4</Object>
  </Input>
```

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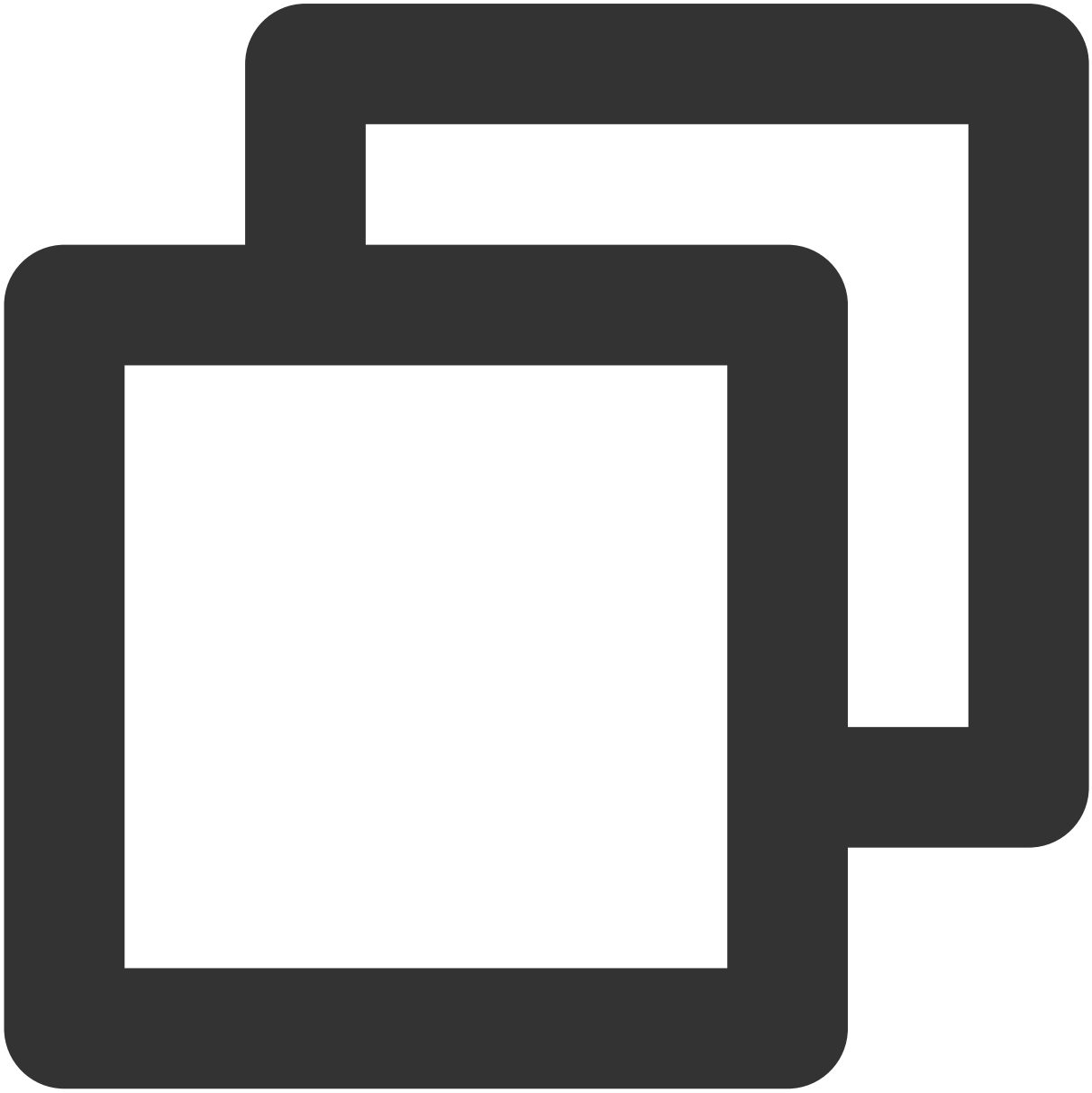
```
    <Time>10</Time>
    <Output>
      <Region>ap-beijing</Region>
      <Bucket>ci-output-1250000000</Bucket>
      <Object>snapshot/video-for-test-snapshot.jpg</Object>
    </Output>
</Request>
```

Response



```
HTTP/1.1 200 OK
```

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```
Content-Type: application/xml
Content-Length: 266
Connection: keep-alive
Date: Fri, 10 Mar 2016 09:45:46 GMT
Server: tencent-ci
x-ci-request-id: NTg3NzRiMjVfYmRjMzVfMTViMl82ZGZm****

<Response>
  <Output>
    <Region>ap-beijing</Region>
    <Bucket>ci-output-1250000000</Bucket>
    <Object>snapshot/video-for-test-snapshot.jpg</Object>
  </Output>
</Response>
```

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Media Information API
Getting Media File Information

Last updated：2024-06-12 15:27:03

Overview

This API is used to get media file information.

Request

Sample request

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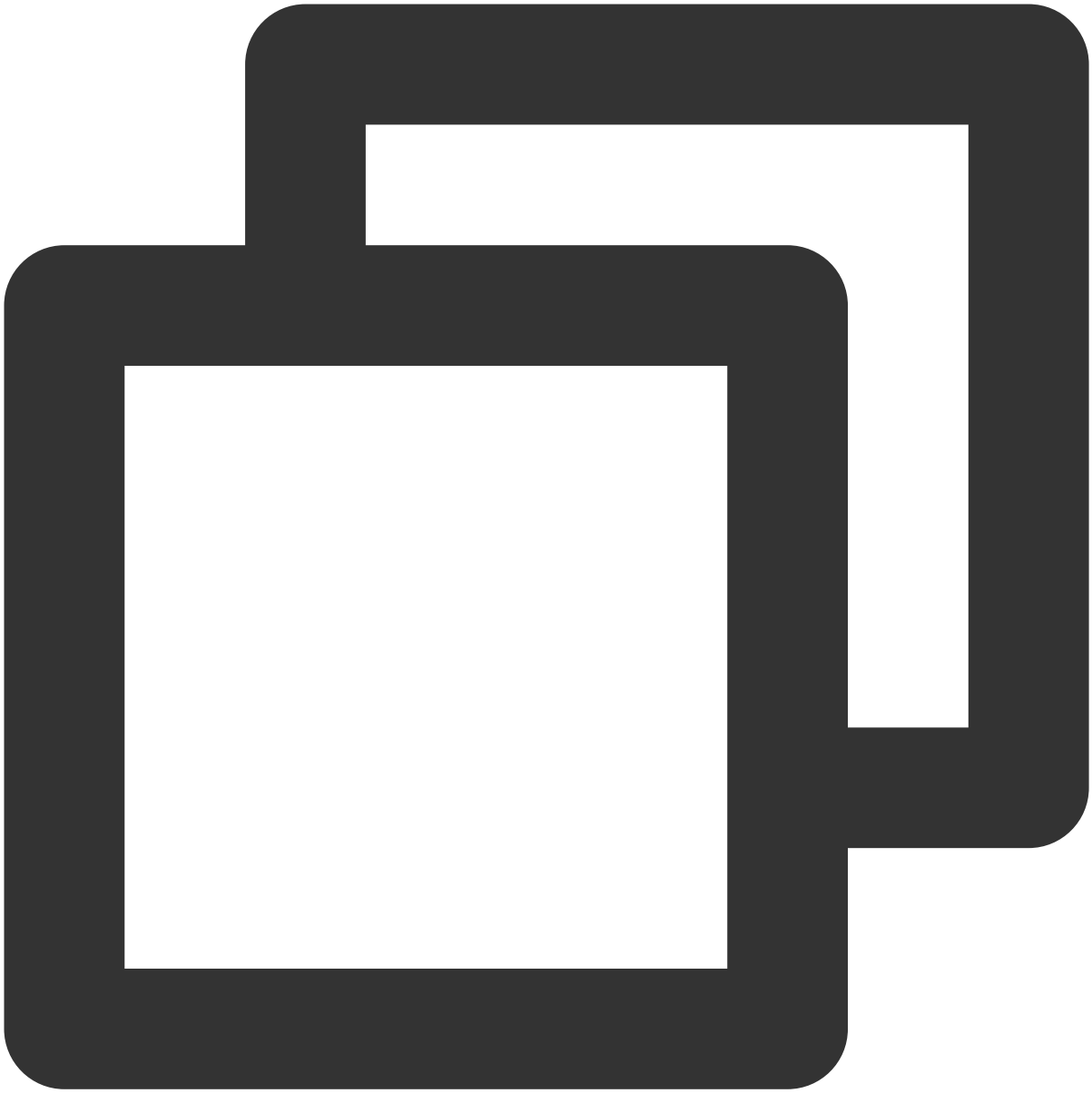

```
GET /for-test.mp4?ci-process=videoinfo HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

Request headers

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This API only uses common request headers. For more information, see Common Request Headers.

Request parameters

The parameters are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
ci-process	None	Operation type, which is fixed at `videoinfo`.	String	Yes

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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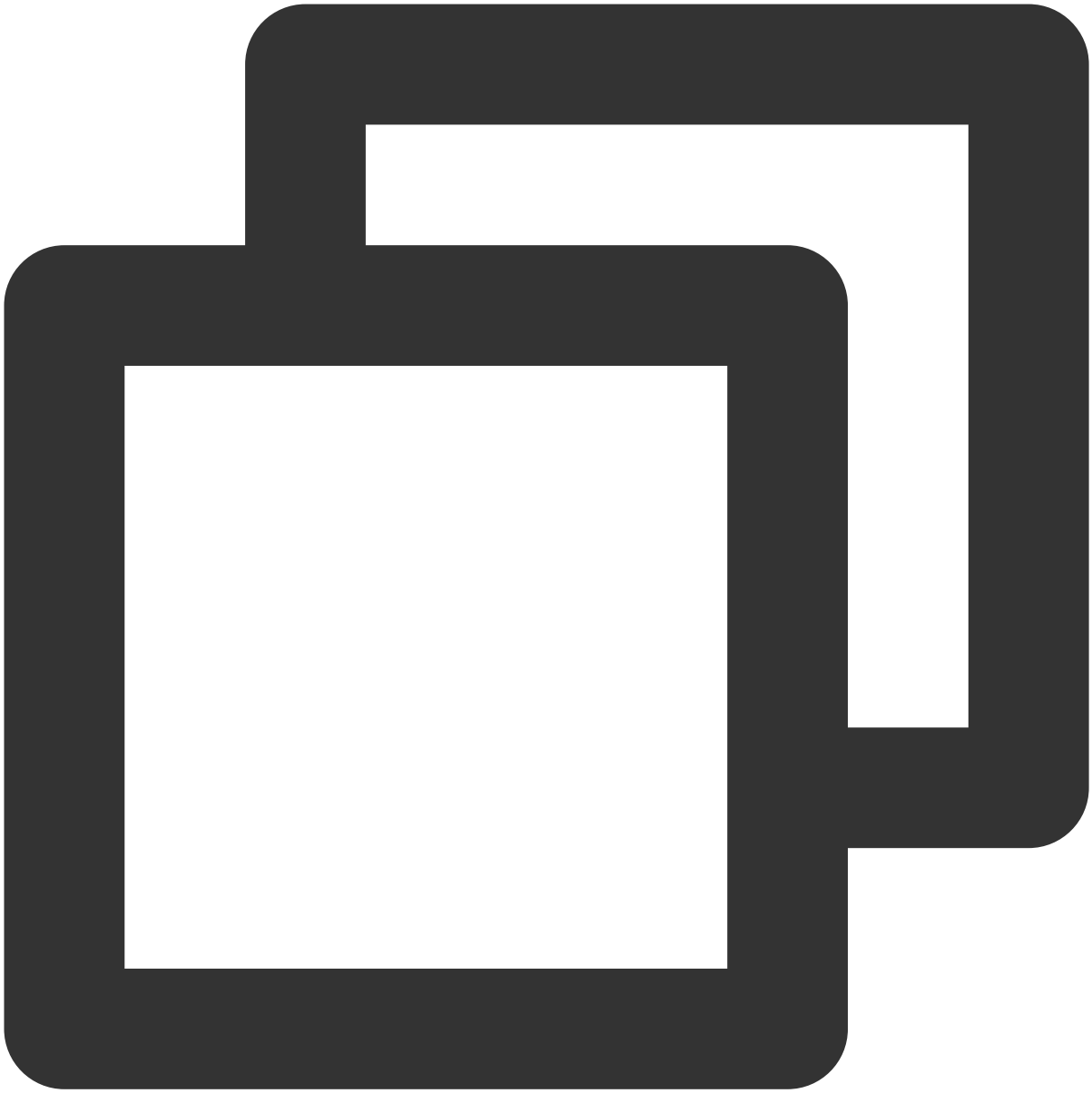

```
<Response>
      <MediaInfo>
         <Stream>
            <Video>
                <Index></Index>
                <CodecName></CodecName>
                <CodecLongName></CodecLongName>
                <CodecTimeBase></CodecTimeBase>
                <CodecTagString></CodecTagString>
                <CodecTag></CodecTag>
                <ColorPrimaries></ColorPrimaries>
```

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```
                <ColorRange></ColorRange>
                <ColorTransfer></ColorTransfer>
                <Profile></Profile>
                <Width></Width>
                <Height></Height>
                <HasBFrame></HasBFrame>
                <RefFrames></RefFrames>
                <Sar></Sar>
                <Dar></Dar>
                <PixFormat></PixFormat>
                <FieldOrder></FieldOrder>
                <Level></Level>
                <Fps></Fps>
                <AvgFps></AvgFps>
                <Timebase></Timebase>
                <StartTime></StartTime>
                <Duration></Duration>
                <Bitrate></Bitrate>
                <NumFrames></NumFrames>
                <Language></Language>
            </Video>
            <Audio>
                <Index></Index>
                <CodecName></CodecName>
                <CodecLongName></CodecLongName>
                <CodecTimeBase></CodecTimeBase>
                <CodecTagString></CodecTagString>
                <CodecTag></CodecTag>
                <SampleFmt></SampleFmt>
                <SampleRate></SampleRate>
                <Channel></Channel>
                <ChannelLayout></ChannelLayout>
                <Timebase></Timebase>
                <StartTime></StartTime>
                <Duration></Duration>
                <Bitrate></Bitrate>
                <Language></Language>
            </Audio>
            <Subtitle>
                <Index></Index>
                <Language></Language>
            </Subtitle>
        </Stream>
        <Format>
            <NumStream></NumStream>
            <NumProgram></NumProgram>
            <FormatName></FormatName>
```

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```
            <FormatLongName></FormatLongName>
            <StartTime></StartTime>
            <Duration></Duration>
            <Bitrate></Bitrate>
            <Size></Size>
         </Format>
      </MediaInfo>
</Response>
```

The specific data is as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container.	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
MediaInfo	Response	Media details.	Container

`MediaInfo` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Stream	Response.MediaInfo	Stream information.	Container
Format	Response.MediaInfo	Format information.	Container

`Stream` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Video	Response.MediaInfo.Stream	Video information.	Container
Audio	Response.MediaInfo.Stream	Audio information.	Container
Subtitle	Response.MediaInfo.Stream	Subtitle information.	Container

`Format` has the following sub-nodes (certain nodes may not be returned during video information query):

Node Name (Keyword)	Parent Node	Description	Type
NumStream	Response.MediaInfo.Format	Number of streams (including videos, audios, and subtitles).	Int

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NumProgram	Response.MediaInfo.Format	Number of programs.	Int
FormatName	Response.MediaInfo.Format	Container format name.	String
FormatLongName	Response.MediaInfo.Format	Detailed name of the container format.	String
StartTime	Response.MediaInfo.Format	Start time in seconds.	Float
Duration	Response.MediaInfo.Format	Duration in seconds.	Float
Bitrate	Response.MediaInfo.Format	Bitrate in kbps.	Int
Size	Response.MediaInfo.Format	Size in bytes.	Int

`Video` has the following sub-nodes (certain nodes may not be returned during video information query):

Node Name (Keyword)	Parent Node	Description	Type
Index	Response.MediaInfo.Stream.Video	Stream number.	Int
CodecName	Response.MediaInfo.Stream.Video	Codec format name.	String
CodecLongName	Response.MediaInfo.Stream.Video	Detailed name of the codec format.	String
CodecTimeBase	Response.MediaInfo.Stream.Video	Codec timebase.	String
CodecTagString	Response.MediaInfo.Stream.Video	Codec tag name.	String
CodecTag	Response.MediaInfo.Stream.Video	Codec tag.	String
ColorPrimaries	Response.MediaInfo.Stream.Video	Color primaries.	String
ColorRange	Response.MediaInfo.Stream.Video	Color range.	String
ColorTransfer	Response.MediaInfo.Stream.Video	Color channel.	String
Profile	Response.MediaInfo.Stream.Video	Video codec profile.	String
Height	Response.MediaInfo.Stream.Video	Video height in px.	Int
Width	Response.MediaInfo.Stream.Video	Video width in px.	Int
HasBFrame	Response.MediaInfo.Stream.Video	Whether B-frames exist. 1: Yes; 0: No.	Int
RefFrames	Response.MediaInfo.Stream.Video	Number of reference frames for video codec.	Int

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Sar	Response.MediaInfo.Stream.Video	Sample aspect ratio.	String
Dar	Response.MediaInfo.Stream.Video	Display aspect ratio.	String
PixFormat	Response.MediaInfo.Stream.Video	Pixel format.	String
FieldOrder	Response.MediaInfo.Stream.Video	Field order.	String
Level	Response.MediaInfo.Stream.Video	Video codec level.	Int
Fps	Response.MediaInfo.Stream.Video	Video frame rate.	Float
AvgFps	Response.MediaInfo.Stream.Video	Average frame rate.	String
Timebase	Response.MediaInfo.Stream.Video	Timebase.	String
StartTime	Response.MediaInfo.Stream.Video	Video start time in seconds.	Float
Duration	Response.MediaInfo.Stream.Video	Video duration in seconds.	Float
Bitrate	Response.MediaInfo.Stream.Video	Bitrate in kbps.	Float
NumFrames	Response.MediaInfo.Stream.Video	Total number of frames.	Int
Language	Response.MediaInfo.Stream.Video	Language.	String

`Audio` has the following sub-nodes (certain nodes may not be returned during video information query):

Node Name (Keyword)	Parent Node	Description	Type
Index	Response.MediaInfo.Stream.Audio	Stream number.	Int
CodecName	Response.MediaInfo.Stream.Audio	Codec format name.	String
CodecLongName	Response.MediaInfo.Stream.Audio	Detailed name of the codec format.	String
CodecTimeBase	Response.MediaInfo.Stream.Audio	Codec timebase.	String
CodecTagString	Response.MediaInfo.Stream.Audio	Codec tag name.	String
CodecTag	Response.MediaInfo.Stream.Audio	Codec tag.	String
SampleFmt	Response.MediaInfo.Stream.Audio	Sample format.	String
SampleRate	Response.MediaInfo.Stream.Audio	Sample rate.	Int
Channel	Response.MediaInfo.Stream.Audio	Number of channels.	Int
ChannelLayout	Response.MediaInfo.Stream.Audio	Channel layout.	String

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Timebase	Response.MediaInfo.Stream.Audio	Timebase.	String
StartTime	Response.MediaInfo.Stream.Audio	Audio start time in seconds.	Float
Duration	Response.MediaInfo.Stream.Audio	Audio duration in seconds.	Float
Bitrate	Response.MediaInfo.Stream.Audio	Bitrate in kbps.	Float
Language	Response.MediaInfo.Stream.Audio	Language.	String

`Subtitle` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Index	Response.MediaInfo.Stream.Subtitle	Stream number.	Int
Language	Response.MediaInfo.Stream.Subtitle	Language. `und` indicates no query result.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Use Cases

Request

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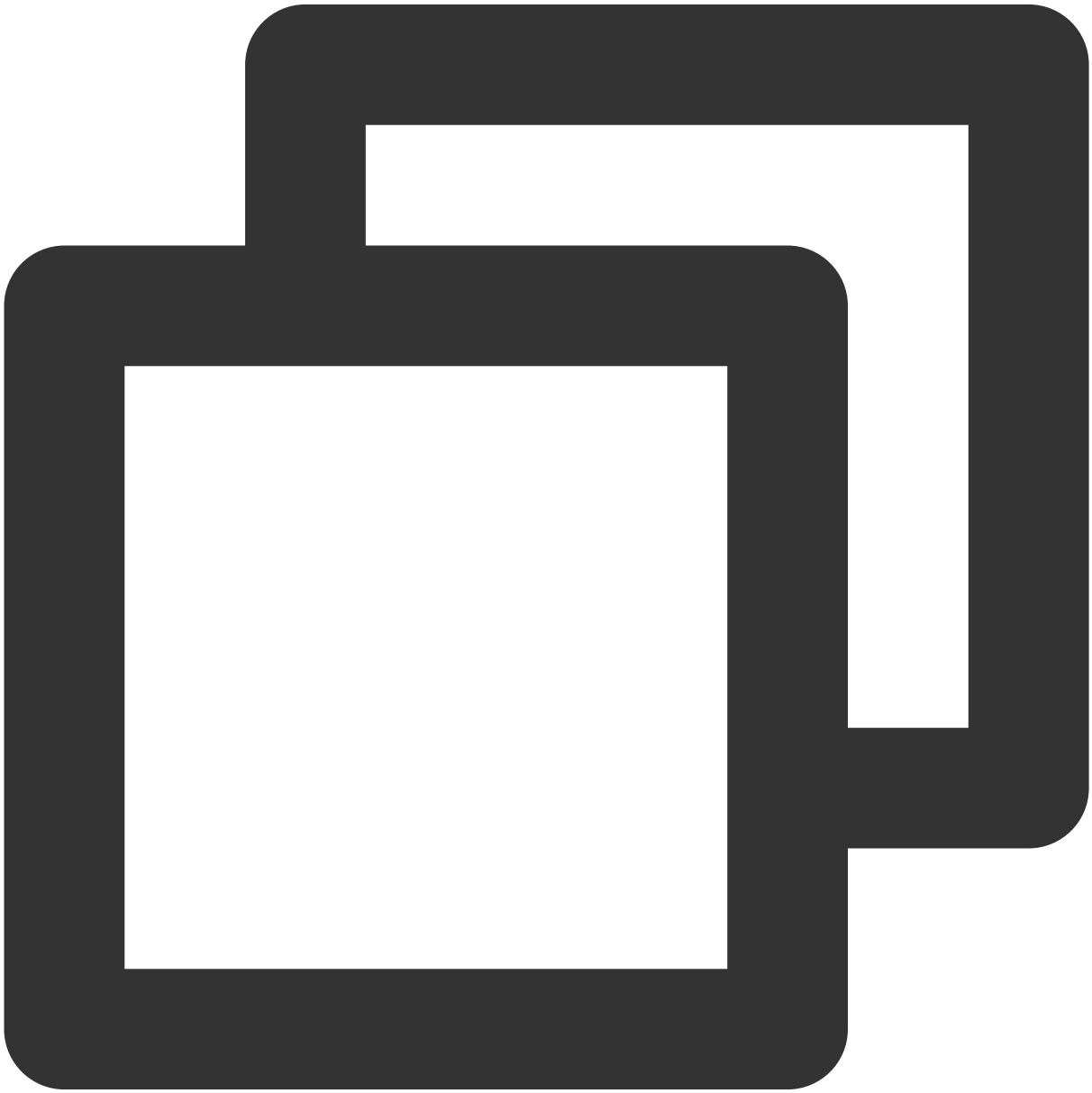

```
GET /for-test.mp4?ci-process=videoinfo HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Mar 2016 09:45:46 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfG****-si
Content-Length: 0
```

Response

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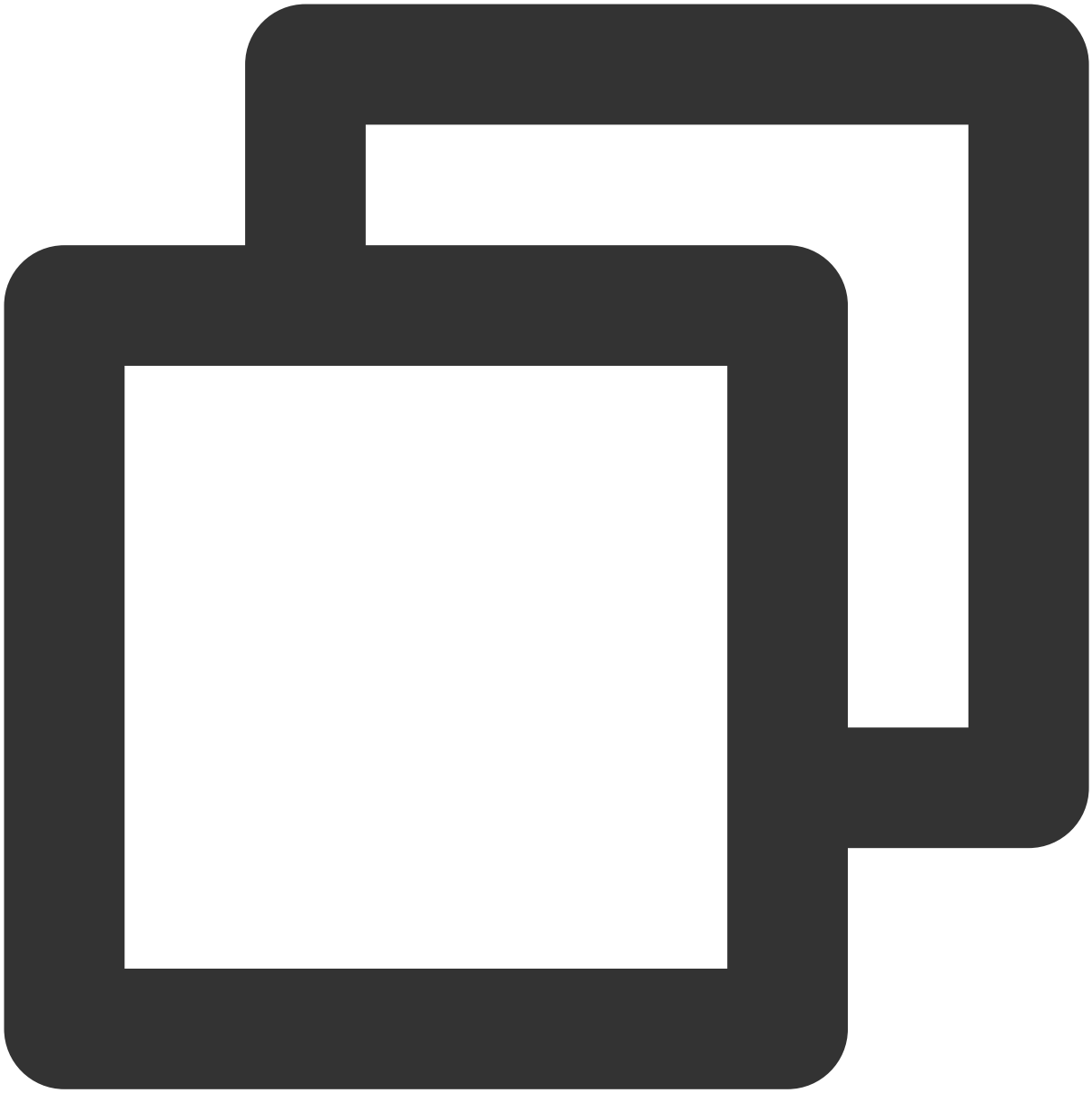

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Fri, 10 Mar 2016 09:45:46 GMT
Server: tencent-cos
x-cos-request-id: NTg3NzRiMjVfYmRjMzVfMTViMl82ZGZmNw==



<Response>
```

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```
        <MediaInfo>
                <Format>
                        <Bitrate>1014.950000</Bitrate>
                        <Duration>10.125000</Duration>
                        <FormatLongName>QuickTime / MOV</FormatLongName>
                        <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                        <NumProgram>0</NumProgram>
                        <NumStream>2</NumStream>
                        <Size>1284547</Size>
                        <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                        <Audio>
                                <Bitrate>70.451000</Bitrate>
                                <Channel>1</Channel>
                                <ChannelLayout>mono</ChannelLayout>
                                <CodecLongName>AAC (Advanced Audio Coding)</CodecLo
                                <CodecName>aac</CodecName>
                                <CodecTag>0x6134706d</CodecTag>
                                <CodecTagString>mp4a</CodecTagString>
                                <CodecTimeBase>1/44100</CodecTimeBase>
                                <Duration>0.440294</Duration>
                                <Index>1</Index>
                                <Language>und</Language>
                                <SampleFmt>fltp</SampleFmt>
                                <SampleRate>44100</SampleRate>
                                <StartTime>0.000000</StartTime>
                                <Timebase>1/44100</Timebase>
                        </Audio>
                        <Subtitle/>
                        <Video>
                                <AvgFps>24/1</AvgFps>
                                <Bitrate>938.164000</Bitrate>
                                <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 pa
                                <CodecName>h264</CodecName>
                                <CodecTag>0x31637661</CodecTag>
                                <CodecTagString>avc1</CodecTagString>
                                <CodecTimeBase>1/12288</CodecTimeBase>
                                <ColorPrimaries>unknown</ColorPrimaries>
                                <ColorRange>unknown</ColorRange>
                                <ColorTransfer>unknown</ColorTransfer>
                                <Dar>40:53</Dar>
                                <Duration>0.124416</Duration>
                                <Fps>24.500000</Fps>
                                <HasBFrame>2</HasBFrame>
                                <Height>1280</Height>
                                <Index>0</Index>
```

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```
                                <Language>und</Language>
                                <Level>32</Level>
                                <NumFrames>243</NumFrames>
                                <PixFormat>yuv420p</PixFormat>
                                <Profile>High</Profile>
                                <RefFrames>1</RefFrames>
                                <Sar>25600:25599</Sar>
                                <StartTime>0.000000</StartTime>
                                <Timebase>1/12288</Timebase>
                                <Width>966</Width>
                        </Video>
                </Stream>
        </MediaInfo>
</Response>
```

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Private M3U8 API
GetPrivateM3U8

Last updated：2024-06-12 15:27:03

Overview

This API is used to get the download authorization for M3U8 and TS resources (requests are forwarded to CI by COS).

Request

Sample request

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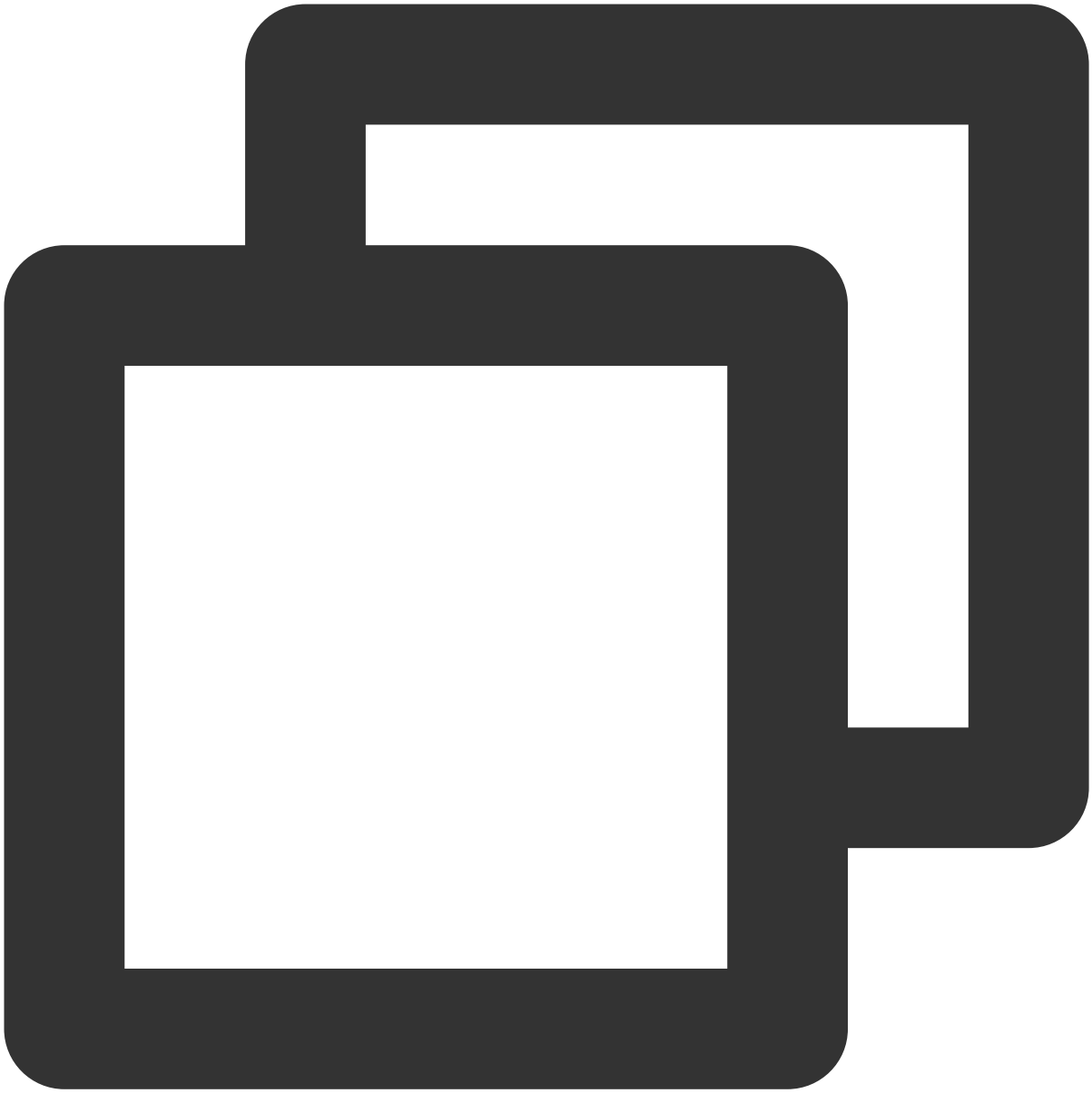

```
GET /for-test.m3u8?ci-process=pm3u8&expires= HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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Request parameters

The parameters are as described below:

Parameter	Description	Type	Required
ci-process	Operation type, which is fixed at `pm3u8`.	String	Yes
expires	Relative validity period of the download credential for the private TS resource URL in seconds. Value range: [3600, 43200].	String	Yes

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body is the screenshot file content.

Error codes

There are no special error messages for this request operation. For common error messages, see Error Codes.

Use Cases

Request

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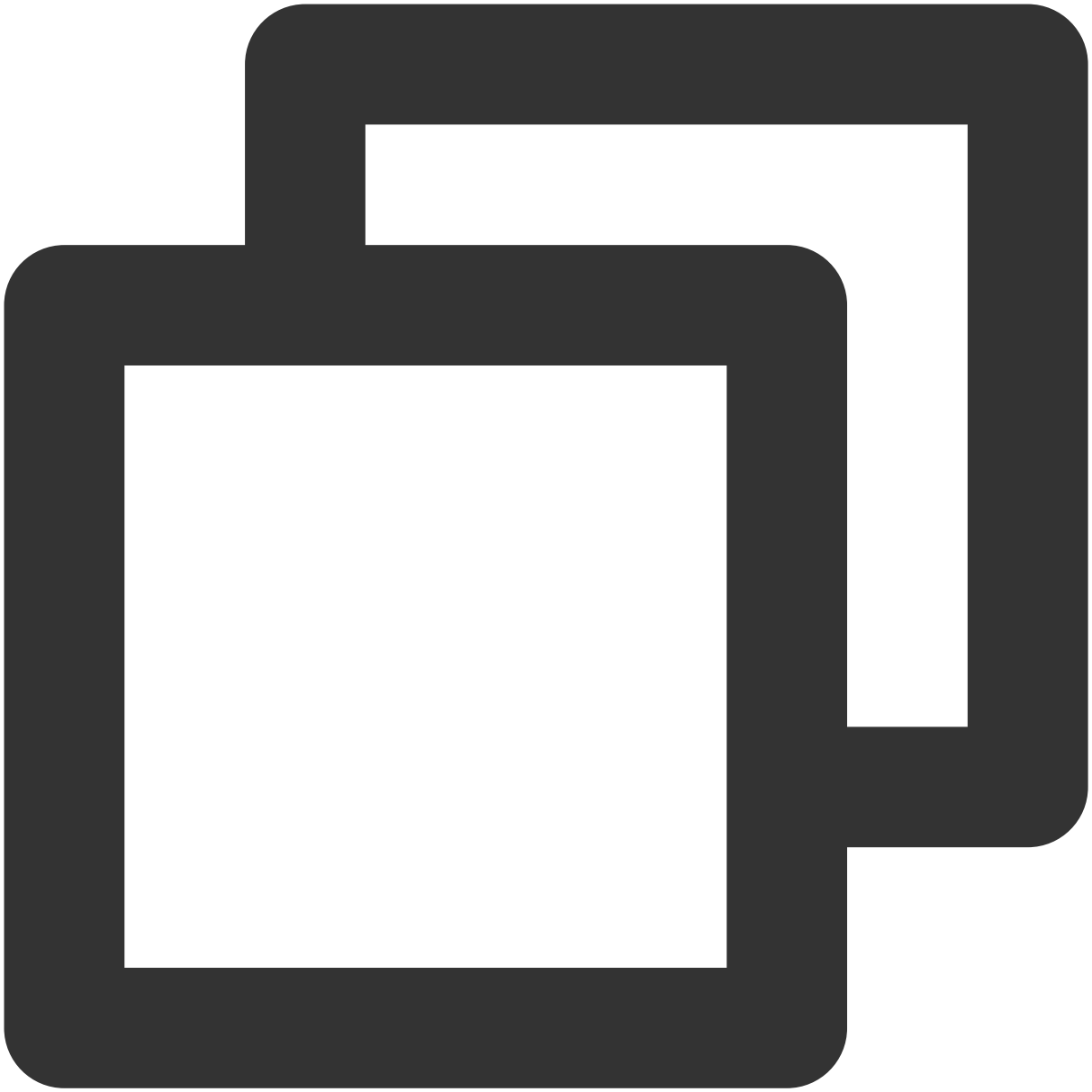

```
GET /for-test.pm3u8?ci-process=pm3u8&expires=3600 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Mar 2016 09:45:46 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfG****-si
Content-Length: 0
```

Response

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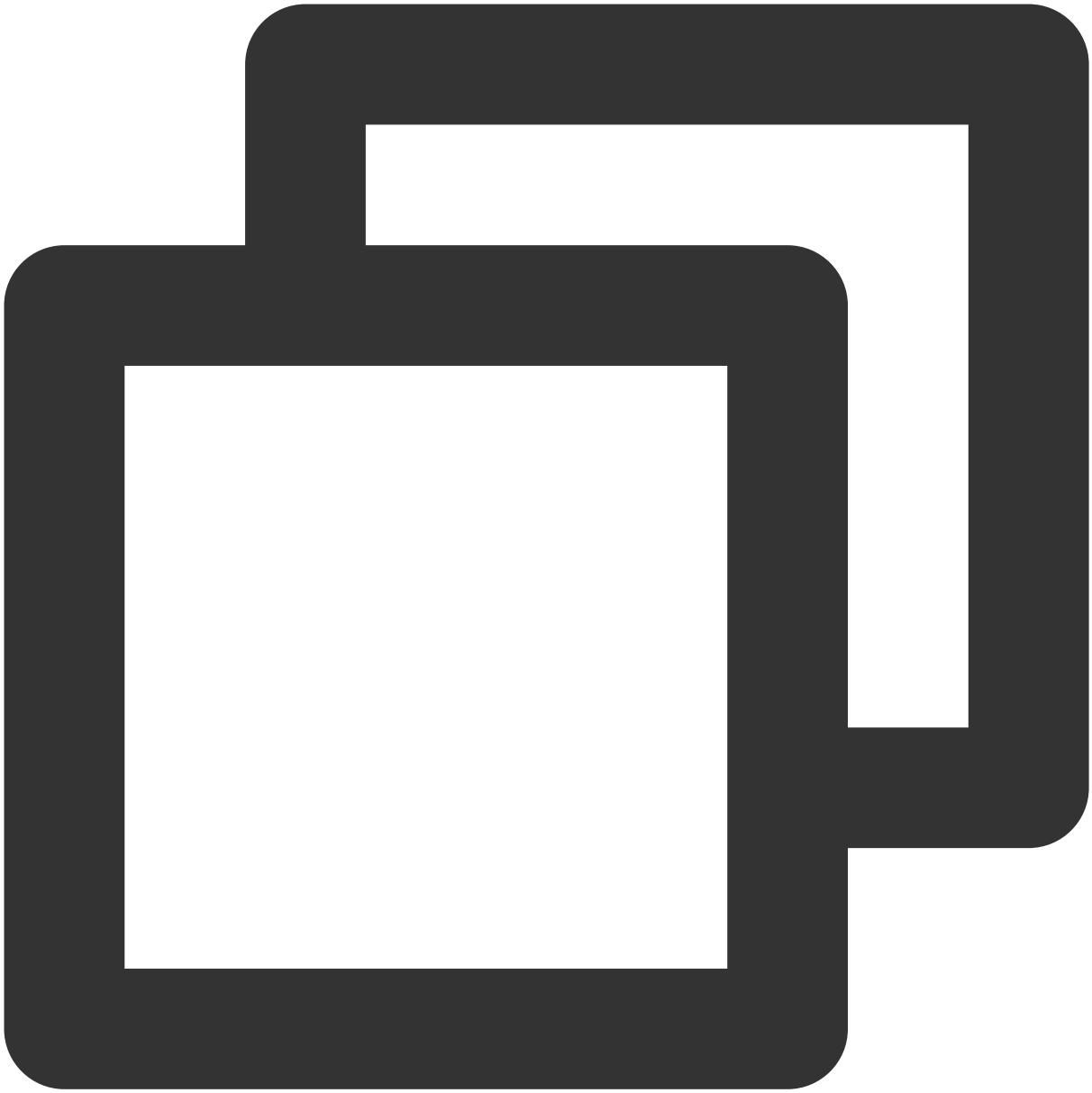

```
HTTP/1.1 200 OK
Content-Type: application/x-mpegURL
Content-Length: 266005
Connection: keep-alive
Date: Fri, 10 Mar 2016 09:45:46 GMT
Server: tencent-cos
x-cos-request-id: NTg3NzRiMjVfYmRjMzVfMTViMl82ZGZm****

<M3U8 file content>
```

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Processing APIs

Last updated：2024-06-12 15:27:03

Job APIs

Job is an abstract concept. Media processing includes many types of jobs, such as transcoding, screenshot, and media information query.
A job contains three key pieces of information: input, output, and parameters. Input and output control the input file when the job is executed and the target file after the job is executed, and parameters control the detailed configurations for executing specific features.
A job can be either sync or async:
Sync job: Jobs can be submitted synchronously for execution.
Async job: Jobs are queued in the media processing queue in order of submission and priority.

Feature		Job API
Basic processing	Audio/Video transcoding	Submitting Video Transcoding Job
	Top speed codec transcoding	Submitting Top Speed Codec Transcoding Job
	Video-to-animated image conversion	Submitting Video-to-Animated Image Conversion Job
	Video frame capturing	Submitting Screenshot Job
	Audio/Video remuxing	Submitting Remuxing Job
	Audio/Video splicing	Submitting Video Splicing Job
	Media information query	Submitting Media Information Query Job
Image quality enhancement	Super resolution	Submitting Super Resolution Job
	Video enhancement	Submitting Video Enhancement Job
	SDR to HDR	Submitting SDR-to-HDR Job
	Video quality scoring	Submitting Video Quality Scoring Job
Copyright protection	Digital watermark	Submitting Digital Watermark Adding Job
Smart editing	Video tagging	Submitting Video Tagging Job
	Video montage	Submitting Video Montage Job

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	Intelligent thumbnail	Submitting Intelligent Thumbnail Job
Smart voice	Audio noise cancellation	Submitting Audio Noise Cancellation Job
	Voice/Sound separation	Voice/Sound Separation Job APIs
	Text to speech	Submitting Text-to-Speech Job
	Speech recognition	Submitting Speech Recognition Job

Workflow APIs

A workflow in media processing refers to the process of automatically processing the specified uploaded file by configuring multiple job operations. For more information on calls, see Workflow APIs.

Batch Operation APIs

A batch operation is to execute a single job or automatically perform operations configured in a workflow on the specified existing file. For more information on calls, see Triggering Batch Data Processing Job.

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File Processing

Querying File Preview Feature Status

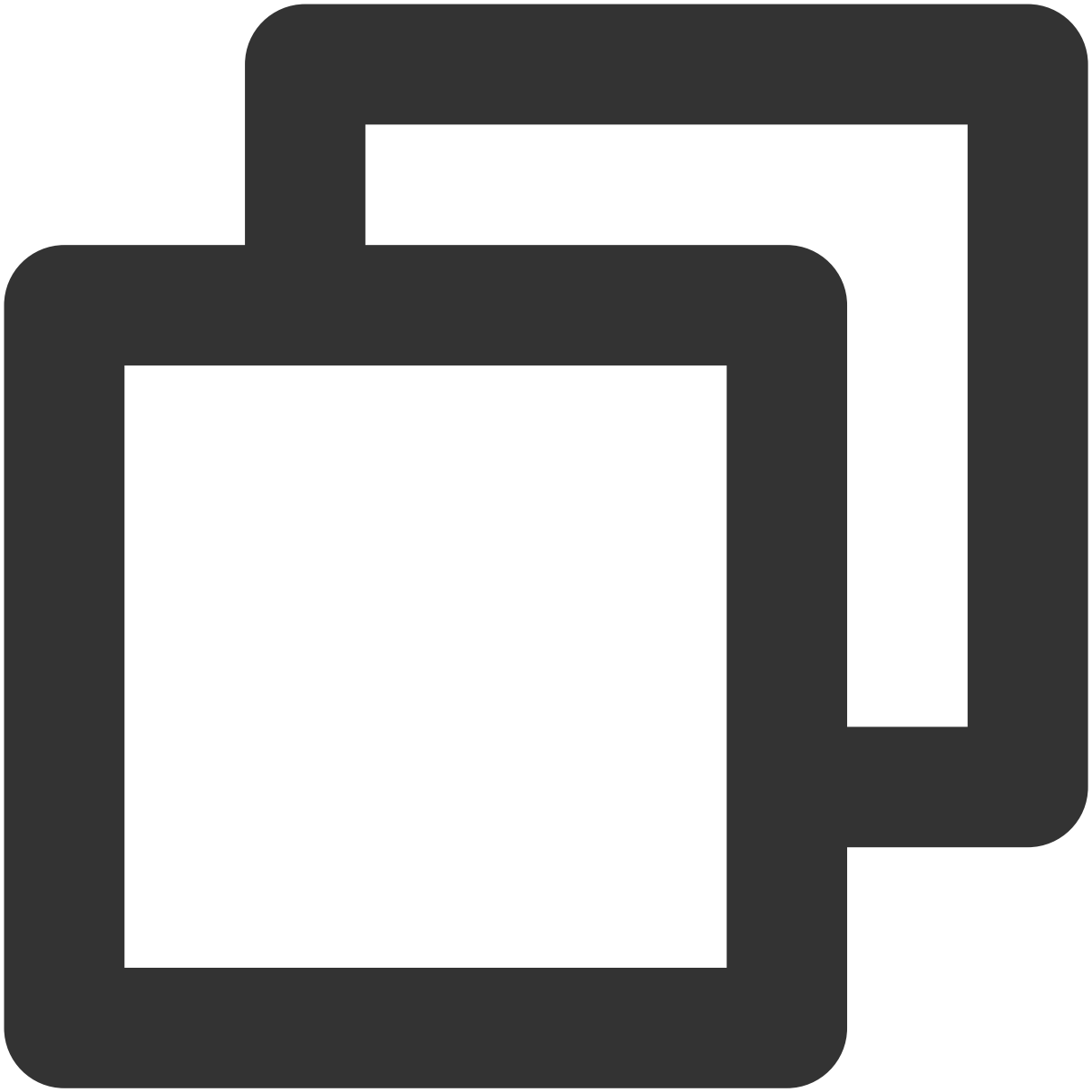
Last updated：2024-06-12 15:27:03

Feature Description

This API (`DescribeDocProcessBuckets`) is used to query the buckets with the file preview feature enabled.

Request

Sample request



```
GET /docbucket?pageNumber=1&pageSize=2 HTTP/1.1
Host: ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

Name	Description	Type	Required
regions	Region. Separate multiple regions by comma. Valid values: `All`, `ap-shanghai`, `ap-beijing`.	string	No
bucketNames	Bucket name. Separate multiple bucket names by comma. Exact search is supported.	string	No
bucketName	Bucket name prefix. Prefix search is supported.	string	No
pageNumber	Page number	string	No
pageSize	Number of entries per page	string	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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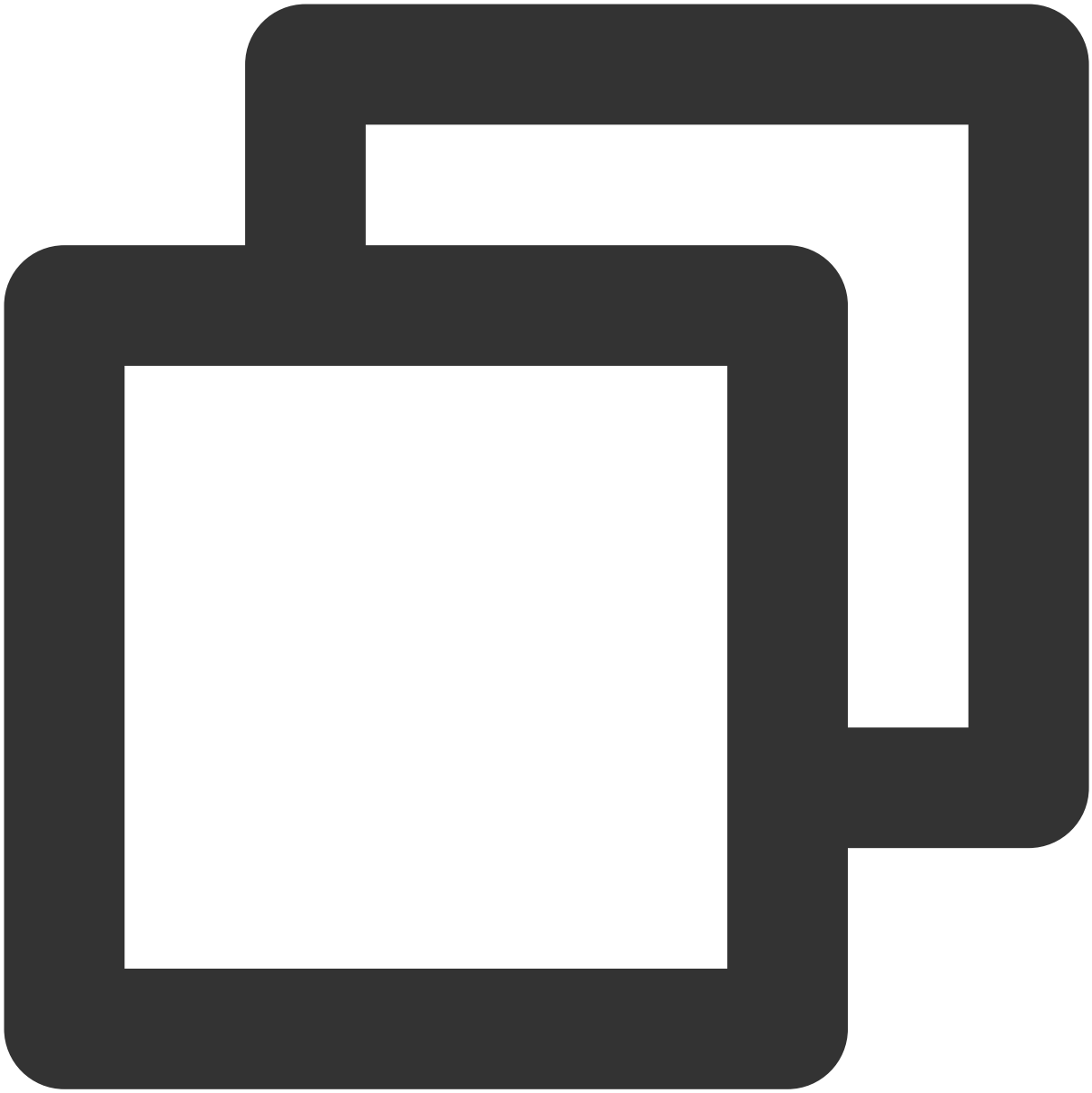

```
<Response>
        <TotalCount>1</TotalCount>
        <RequestId>RequestId</RequestId>
        <PageNumber>1</PageNumber>
        <PageSize>2</PageSize>
        <DocBucketList>
                <Name>BucketName-APPID</Name>
                <CreateTime>Time</CreateTime>
                <Region>Region</Region>
                <AliasBucketId/>
                <BucketId>BucketName-APPID</BucketId>
```

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```
        </DocBucketList>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
TotalCount	Response	Total number of buckets with file preview enabled.	Int
PageNumber	Response	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Response	Number of entries per page, which is the same as `pageSize` in the request.	Int
DocBucketList	Response	List of buckets with file preview enabled.	Container

`DocBucketList` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
BucketId	Response.DocBucketList	Bucket ID.	String
Name	Response.DocBucketList	Bucket name, which is the same as `BucketId` .	String
Region	Response.DocBucketList	Region.	String
CreateTime	Response.DocBucketList	Creation time.	String
AliasBucketId	Response.DocBucketList	Bucket alias.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

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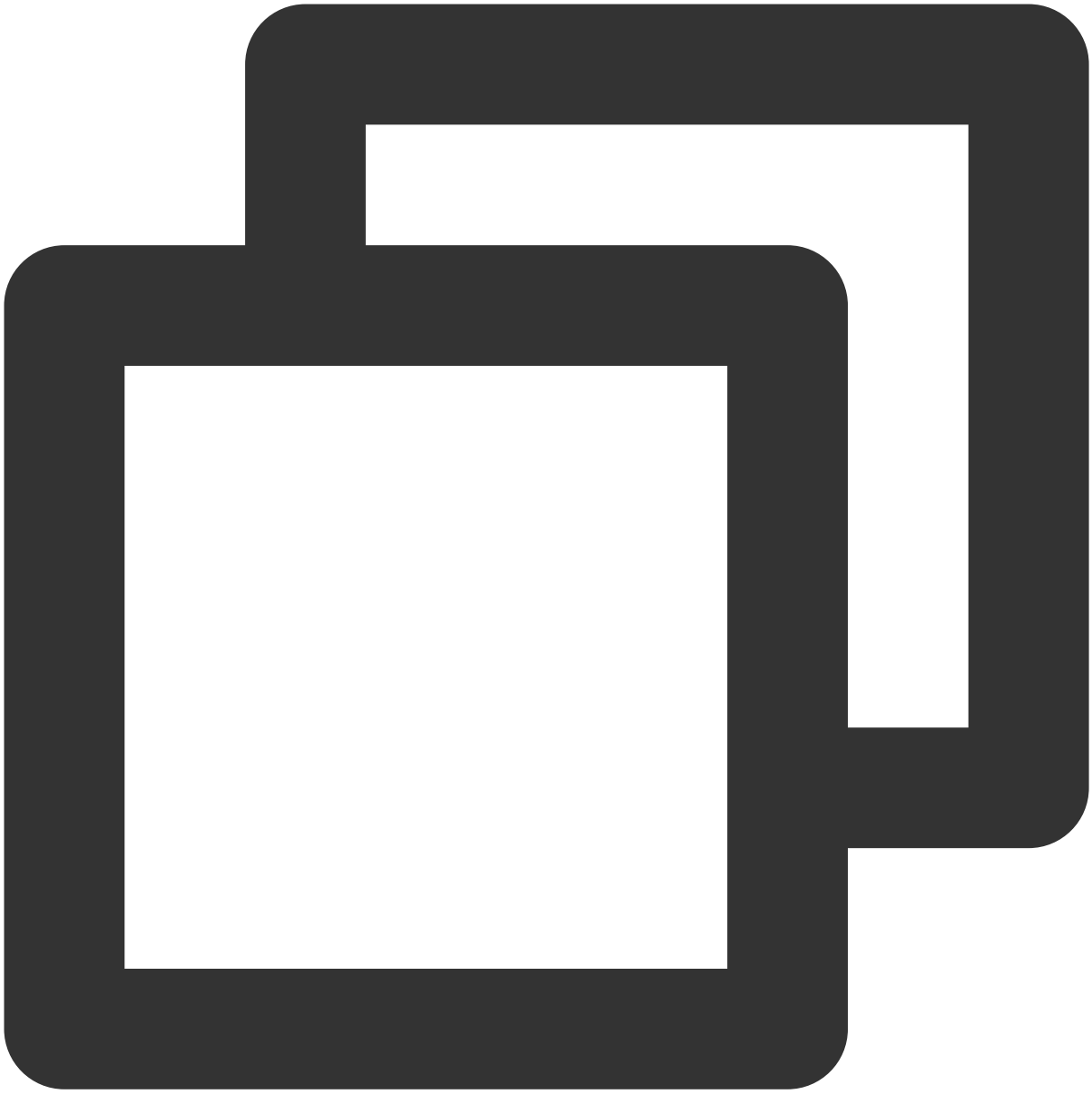
Samples

Request



```
GET /docbucket?regions=ap-chongqing HTTP/1.1
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
User-Agent: cos-python-sdk-v5.3.2
Host: ci.ap-chongqing.myqcloud.com
```

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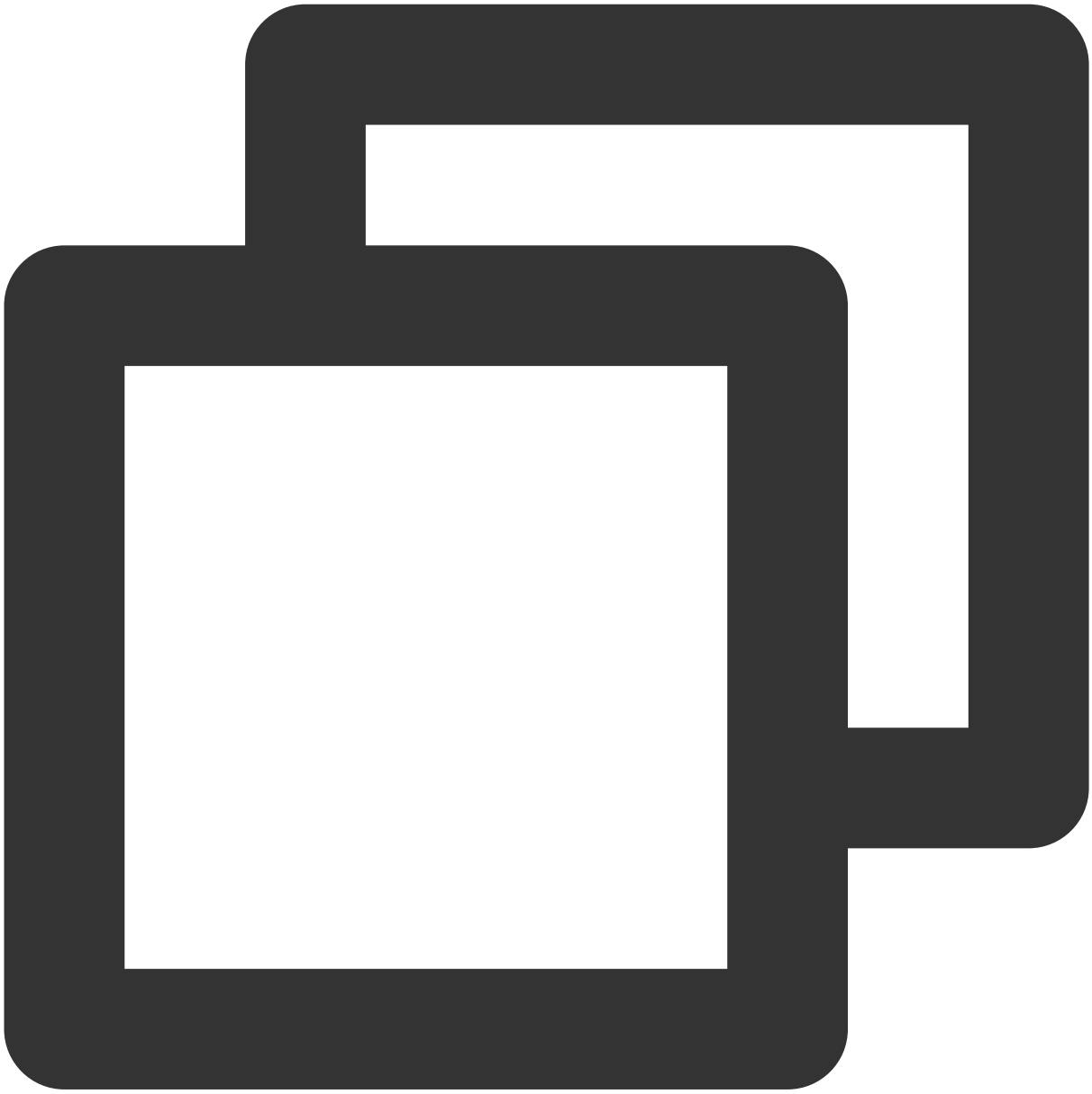
```
Content-Type: application/xml
Authorization: Authorization
```

Response



```
HTTP/1.1 200 OK
Date: Mon, 27 Jul 2020 07:00:43 GMT
Content-Type: application/xml
Content-Length: 843
Connection: keep-alive
Server: tencent-ci
```

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```
x-ci-request-id: NWYxZTdiOWJfYzc2OTQzNjRfM2Qz****

<?xml version="1.0" encoding="utf-8"?>
<Response>
        <TotalCount>3</TotalCount>
        <RequestId>NWYxZTdiOWJfYzc2OTQzNjRfM2Qz****</RequestId>
        <PageNumber>1</PageNumber>
        <PageSize>10</PageSize>
        <DocBucketList>
                <Name>examplebucket-1250000000</Name>
                <CreateTime>2020-07-27T10:54:42+0800</CreateTime>
                <Region>ap-chongqing</Region>
                <AliasBucketId/>
                <BucketId>examplebucket-1250000000</BucketId>
        </DocBucketList>
        <DocBucketList>
                <Name>examplebucket-1250000000</Name>
                <CreateTime>2020-07-24T22:42:26+0800</CreateTime>
                <Region>ap-chongqing</Region>
                <AliasBucketId/>
                <BucketId>examplebucket-1250000000</BucketId>
        </DocBucketList>
</Response>
```

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File Transcoding
Sync Request API

Last updated：2024-06-12 15:27:03

Feature Description

The file preview feature allows generating images from multiple types of files for preview and performing basic processing operations on the output images synchronously. It addresses the display problems of file content on webpages and enables easy online file preview on PC, app, and other terminals. It is widely suitable for diverse business scenarios, such as online education, enterprise OA, and website transcoding.

Note:

To use this feature, you need to activate the service first. Then, you can call a specific file preview API to preview files in the bucket synchronously or asynchronously.

File preview is a paid feature billed by CI. For billing details, see Billing Overview.

The conversion logic of file transcoding is the same as that of local printing. If you need to change the conversion orientation (such as outputting an Excel file with many columns horizontally to one page), you need to change the source file print settings.

Request

Sample request

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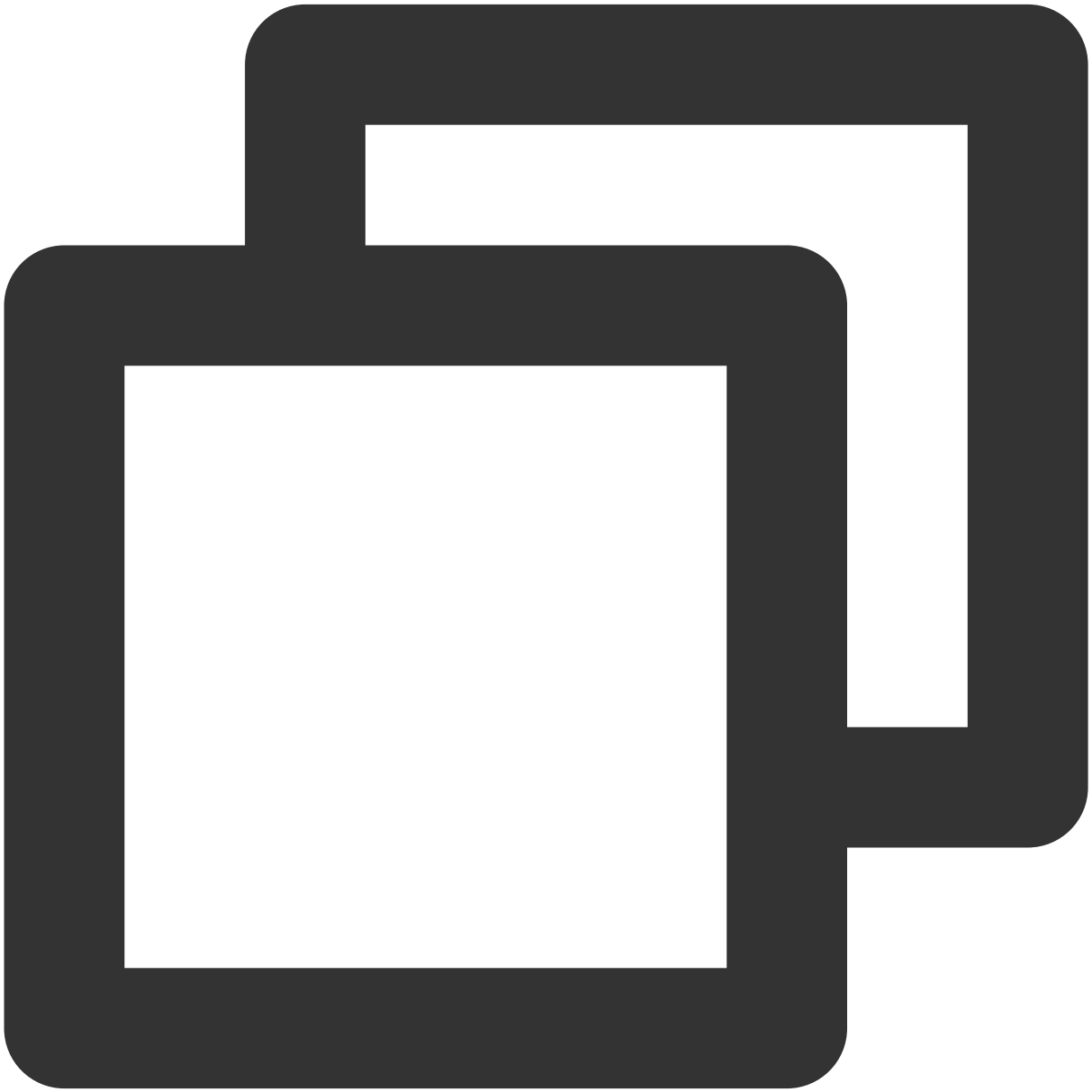

```
GET /<ObjectKey>?ci-process=doc-preview&page=<page>&srcType=<srcType>&ImageParams=<
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Authorization: Auth String (for more information, see Request Signature).

For private buckets, the request needs to carry the signature for file download.

Request headers

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This API only uses common request headers. For more information, see Common Request Headers.

Common request parameters

Parameter	Description	Type	Required
ObjectKey	Object name, such as `folder/document.pdf` .	String	Yes
ci-process	CI's processing capability, which is fixed at `doc-preview` for file preview.	String	Yes
srcType	Source data type. Currently, the file conversion feature determines the source data type according to the file extension of the COS object. If the object has no extension, you can set this value.	String	No
page	Number of the page to be converted, which is counted from 1 by default. For spreadsheets, `page` indicates to convert the xth image in the xth sheet.	Int	No
dstType	Type of the output target file. Valid values: png jpg pdf (the page number cannot be selected, and the `page` parameter does not take effect) txt If the input file format cannot be recognized, the `jpg` format will be used by default.	String	No
password	Password to open the Office file. If you need to convert a password-protected file, set this field.	String	No
comment	Whether to hide comments and apply track changes. `0` : hide comments and apply track changes; `1` : show comments and track changes. Default value: `0` .	Int	No

Parameters for spreadsheet files (Excel)

Parameter	Description	Type	Required
sheet	Sheet parameter, indicating to convert the xth sheet. Default value: `1` .	Int	No
excelPaperDirection	Paper orientation of the spreadsheet. `0` : vertical; other values: horizontal. Default value: `0` .	Int	No
excelRow	The value `1` indicates that all rows will be formatted on one	Int	No

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	page. Default value: `0` .		
excelCol	The value `1` indicates that all columns will be formatted on one page. Default value: `0` .	Int	No
excelPaperSize	Paper (canvas) size. Valid values: `0` (A4), `1` (A2), `2` (A0). Default value: `0` . This parameter should be used together with `excelRow` or `excelCol` .	Int	No

Parameters for transcoding into .txt files

Parameter	Description	Type	Required
txtPagination	Whether to convert to long text. When this parameter is set to `true` , the text in the pages to be exported can be combined before export, and the pagination range can be controlled by `Ranges` . The default value is `false` , indicating to generate .txt files by page. This parameter takes effect only if `ExportType` is `txt` .	Bool	No

Parameters for transcoding to .png/.jpg images

Name	Description	Type	Required
ImageParams	Processing parameters for the output image. All parameters of basic image processing are supported. To specify multiple parameters, separate them by pipeline operator. In this way, the image can be processed by multiple parameters in sequence in the same request.	String	No
quality	Quality of the generated preview image. Value range: [1, 100]. Default value: `100` . For example, if the value is 100, the quality of the generated image will be 100%.	Int	No
scale	Scaling parameter of the preview image. Value range: [10, 200]. Default value: `100` . For example, if the value is 200, the image will be scaled up (enlarged) by 200%.	Int	No
imageDpi	Renders the image based on the specified DPI. This parameter works together with `scale` . Value range: 96–600. Default value: `96` . The width of the output image must be less than 65500 px.	Int	No

Note:

Currently supported input file types include:

Presentation files: PPTX, PPT, POT, POTX, PPS, PPSX, DPS, DPT, PPTM, POTM, PPSM.

Text files: DOC, DOT, WPS, WPT, DOCX, DOTX, DOCM, DOTM.

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Spreadsheet files: XLS, XLT, ET, ETT, XLSX, XLTX, CSV, XLSB, XLSM, XLTM, ETS.

A spreadsheet file may be split into multiple pages, with multiple images generated.

Other files: PDF, LRC, C, CPP, H, ASM, S, JAVA, ASP, BAT, BAS, PRG, CMD, RTF, TXT, LOG, XML, HTM, HTML.

The input file size cannot exceed 200 MB.

The number of pages in the input file cannot exceed 5,000.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response parameter description

Parameter	Description	Type
X-Total-Page	Total number of pages in the file (or images converted from sheets in the spreadsheet file) returned in the HTTP header. This value will be empty in case of an exception.	Int
Content-Type	Different values will be returned based on the actual image format, such as `image/jpeg` and `image/webp`.	String
X-ErrNo	The error code returned in case of an exception, which can be viewed in the HTTP header.	String
X-Total-Sheet	Total number of sheets in the spreadsheet file returned in the HTTP header.	Int
X-Sheet-Name	Name of the current sheet in the spreadsheet file returned in the HTTP header.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Sample 1: Previewing a general file

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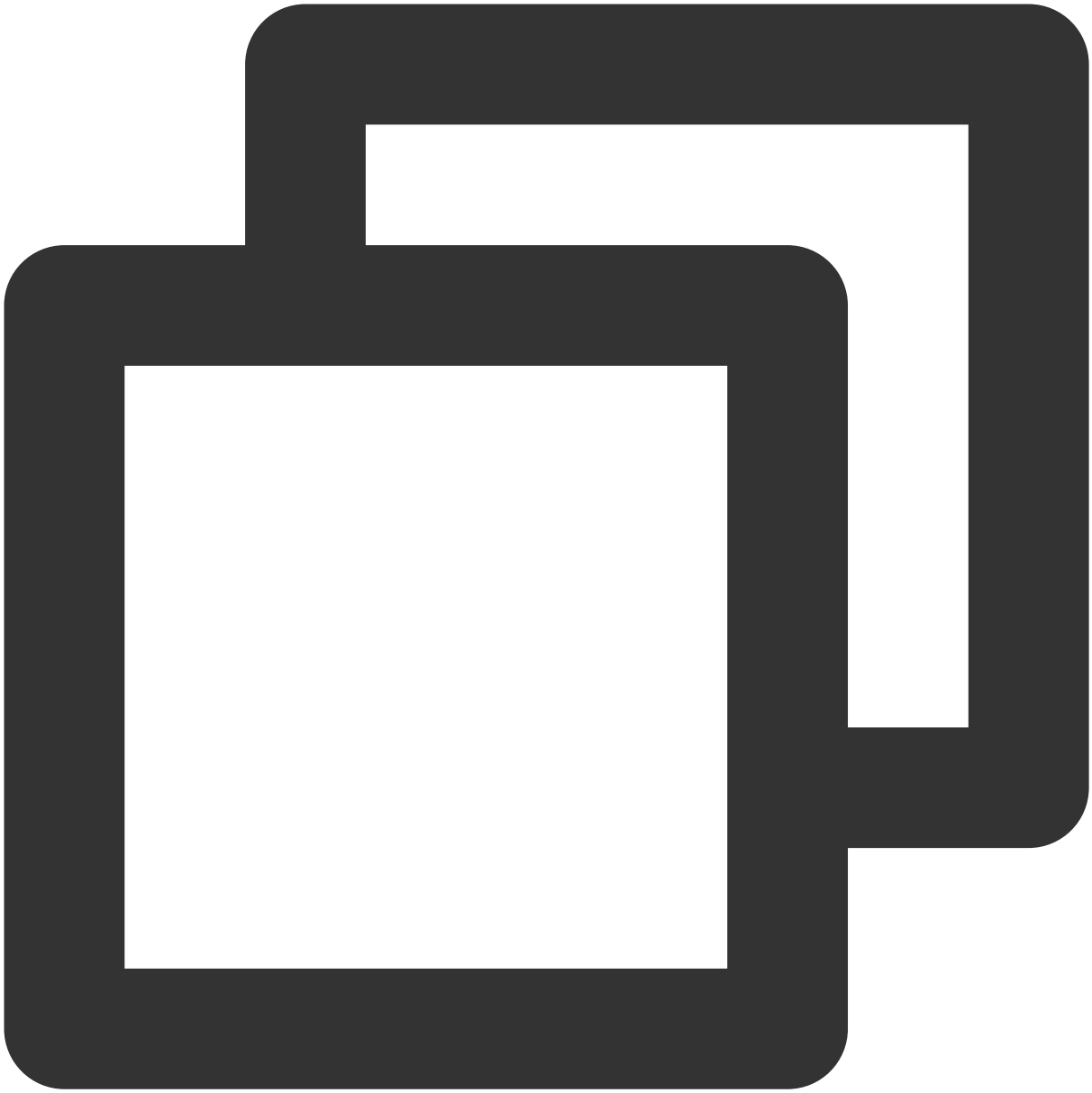
Request



```
GET /sample.pdf?ci-process=doc-preview&page=1 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
```

Response 1: Preview succeeds

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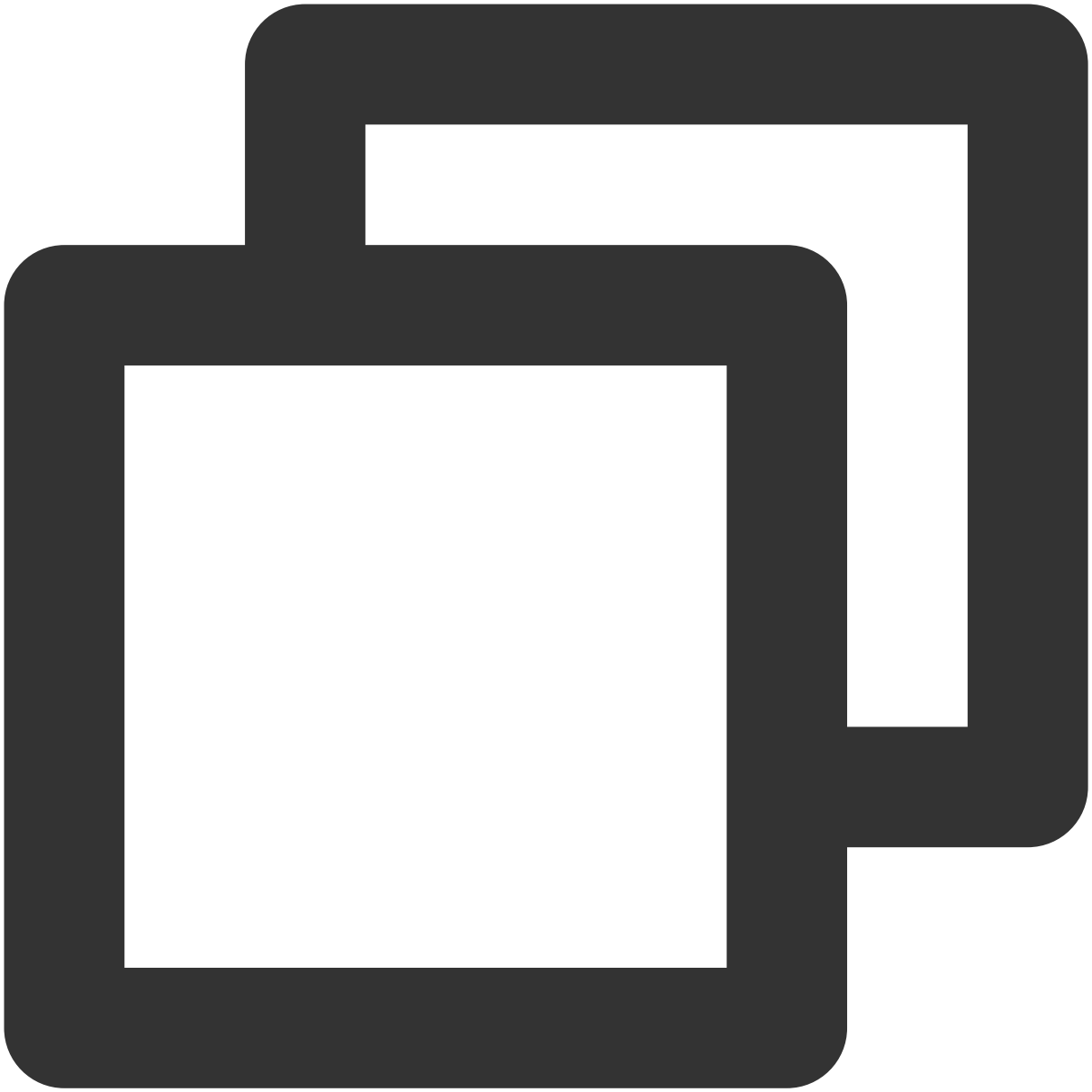

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
X-Total-Page: 100

[Image data after transcoding]
```

Response 2: The file does not exist

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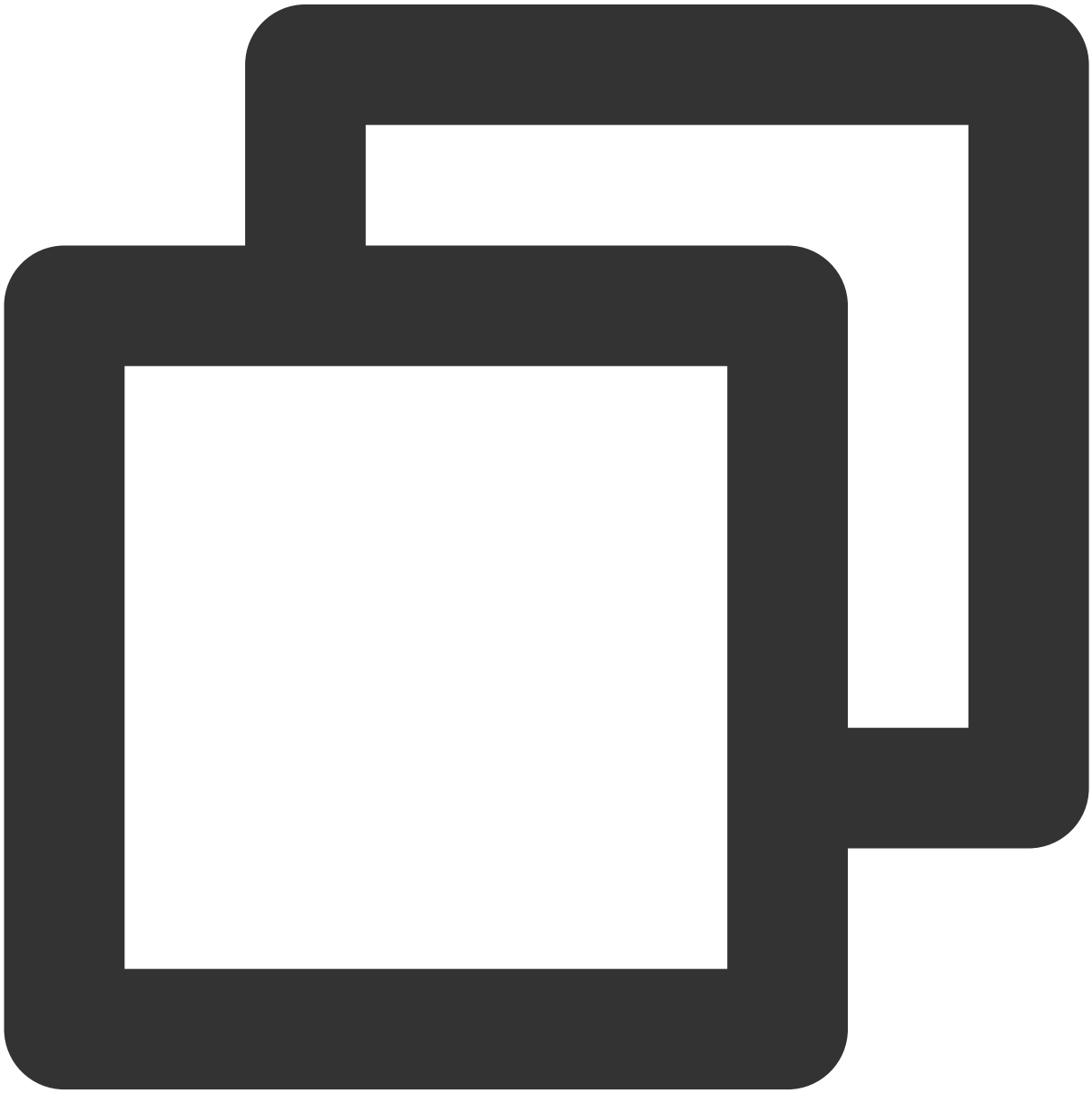

```
HTTP/1.1 404 OK
Connection: close
Content-Length: 455
Content-Type: application/xml
Date: Thu, 09 Apr 2020 13:44:52 GMT
X-ErrNo: -3004
```

Response 3: The specified page does not exist

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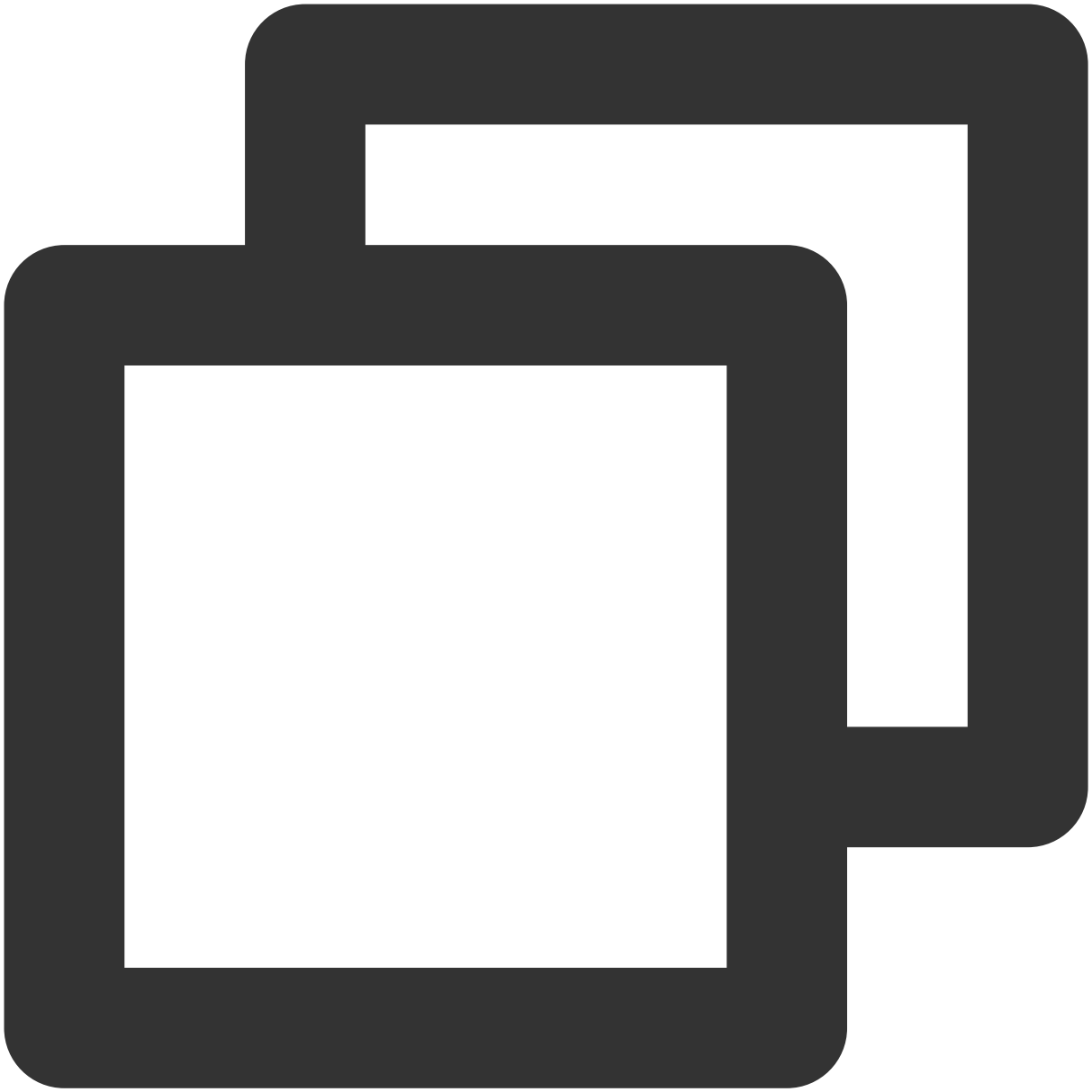

```
HTTP/1.1 404 OK
Connection: close
Content-Length: 455
Content-Type: application/xml
Date: Thu, 09 Apr 2020 13:44:52 GMT
X-ErrNo: -3013
```

Sample 2: Previewing a file and processing the image by scaling it and adding a text watermark

Request

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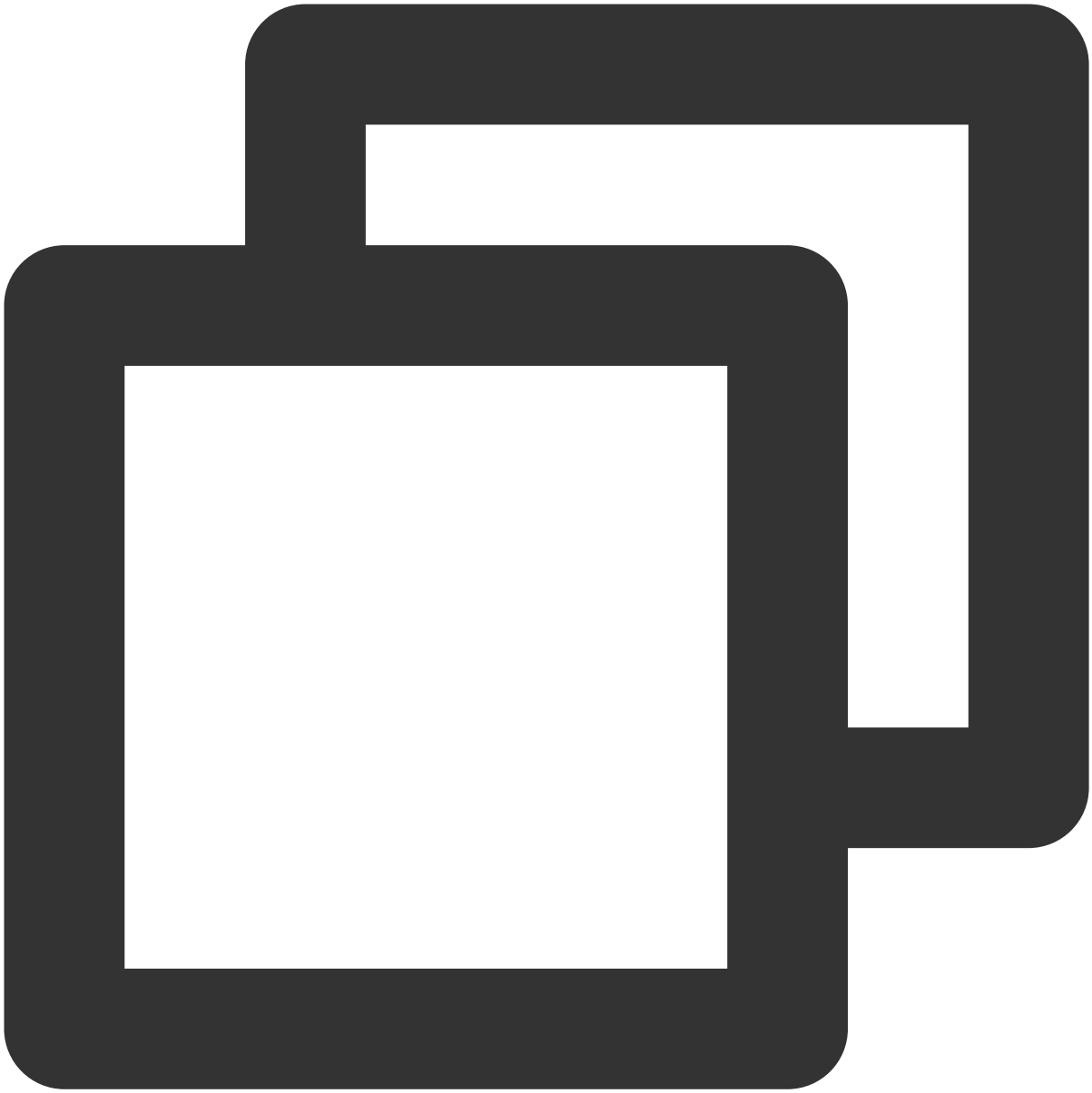

```
GET /sample.pdf?ci-process=doc-preview&page=1&ImageParams=imageMogr2/thumbnail/!50p
Host: examplebucket-1250000000.cos.ap-shanghai.myqcloud.com
```

Response 1: Preview succeeds

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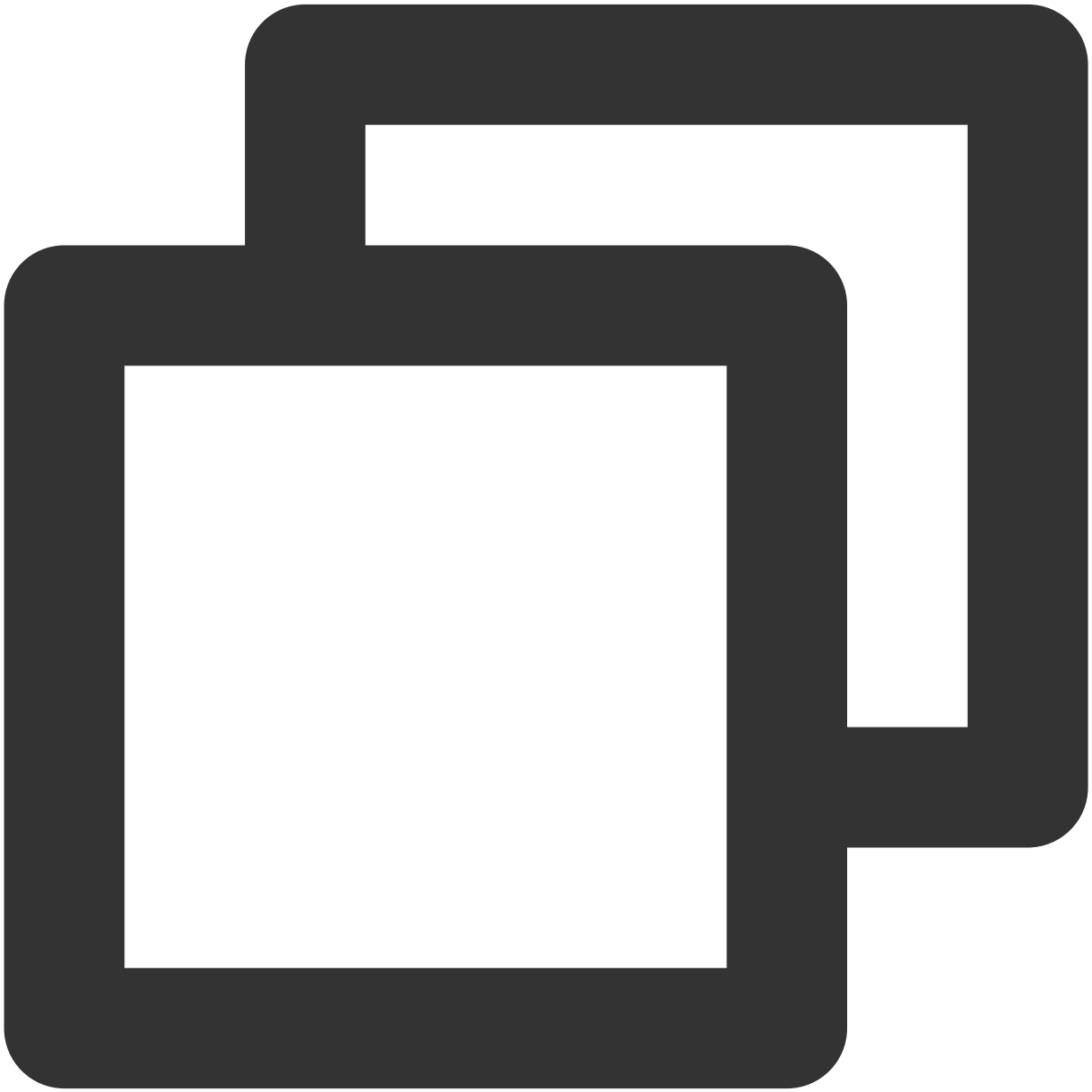

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
X-Total-Page: 100

[Image data after transcoding]
```

Response 2: The file does not exist

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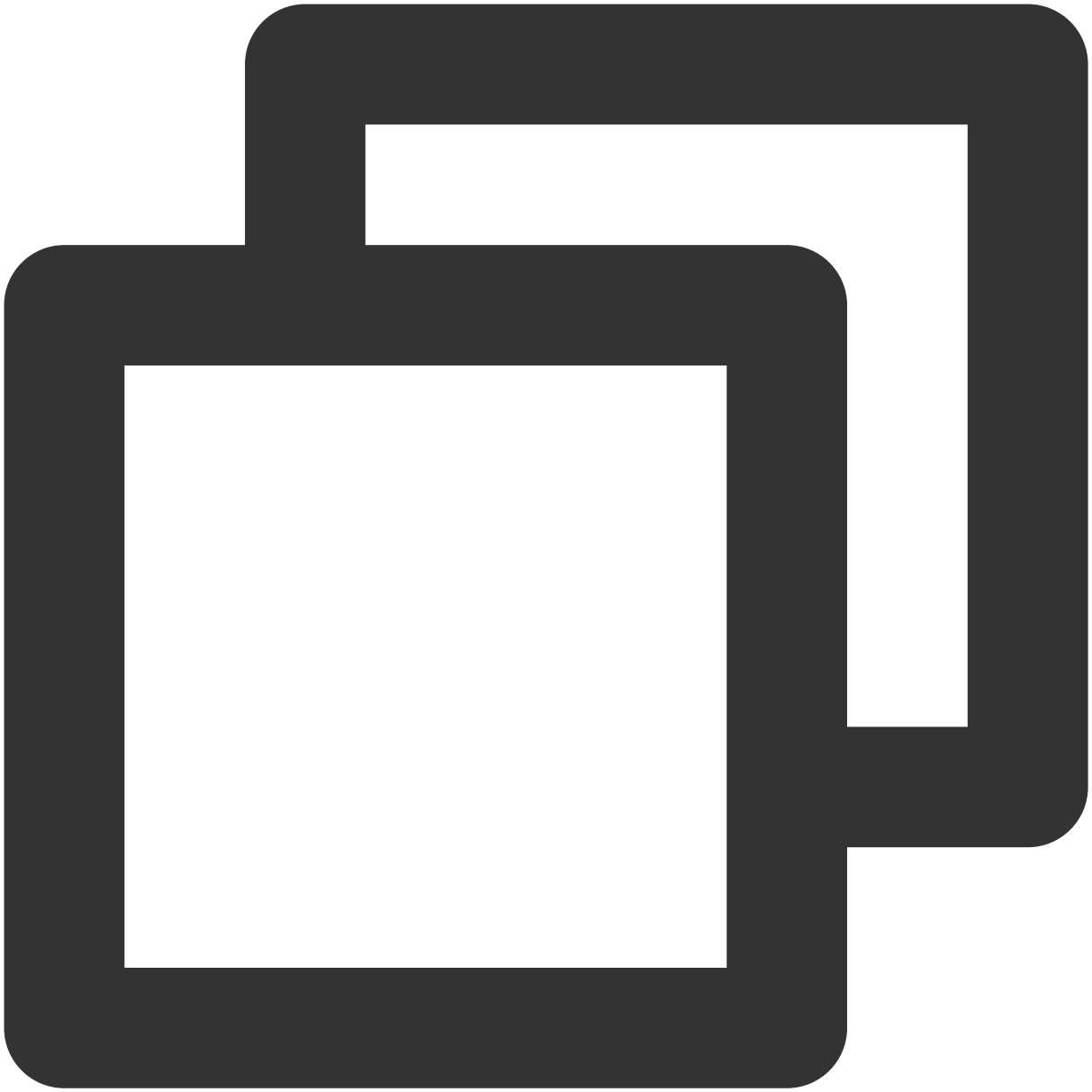

```
HTTP/1.1 404 OK
Connection: close
Content-Length: 455
Content-Type: application/xml
Date: Thu, 09 Apr 2020 13:44:52 GMT
X-ErrNo: -3004
```

Response 3: The specified page does not exist

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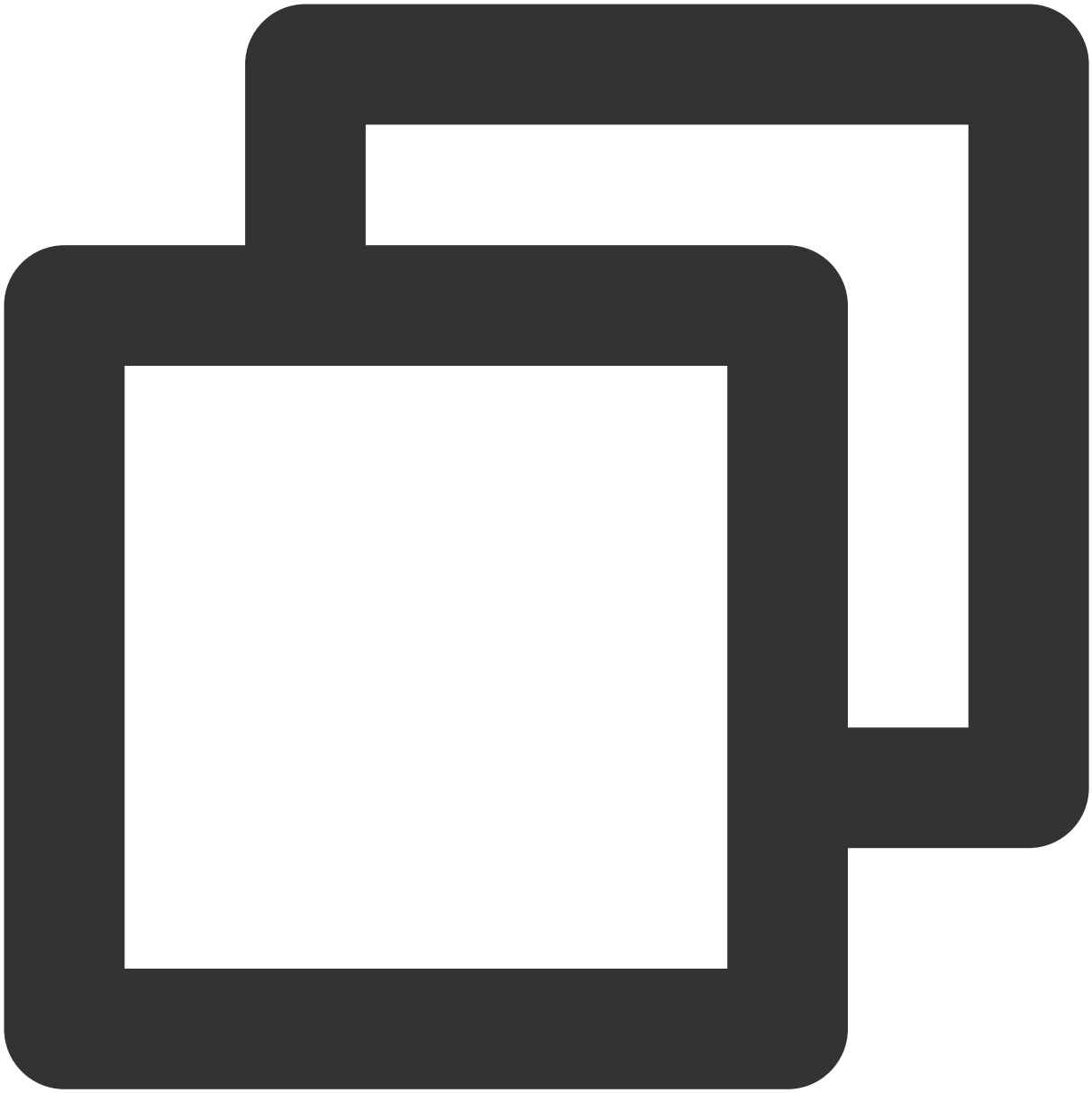

```
HTTP/1.1 404 OK
Connection: close
Content-Length: 455
Content-Type: application/xml
Date: Thu, 09 Apr 2020 13:44:52 GMT
X-ErrNo: -3013
```

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Async Processing Job APIs
Submitting File Transcoding Job

Last updated：2024-06-12 15:27:04

Feature Description

This API (`CreateDocProcessJobs`) is used to submit a file transcoding job.

Note:

Currently supported input file types include:

Presentation files: PPTX, PPT, POT, POTX, PPS, PPSX, DPS, DPT, PPTM, POTM, PPSM.

Text files: DOC, DOT, WPS, WPT, DOCX, DOTX, DOCM, DOTM.

Spreadsheet files: XLS, XLT, ET, ETT, XLSX, XLTX, CSV, XLSB, XLSM, XLTM, ETS.

A spreadsheet file may be split into multiple pages, with multiple images generated.

Other files: PDF, LRC, C, CPP, H, ASM, S, JAVA, ASP, BAT, BAS, PRG, CMD, RTF, TXT, LOG, XML, HTM, HTML.

The input file size cannot exceed 200 MB.

The number of pages in the input file cannot exceed 5,000.

Request

Sample request

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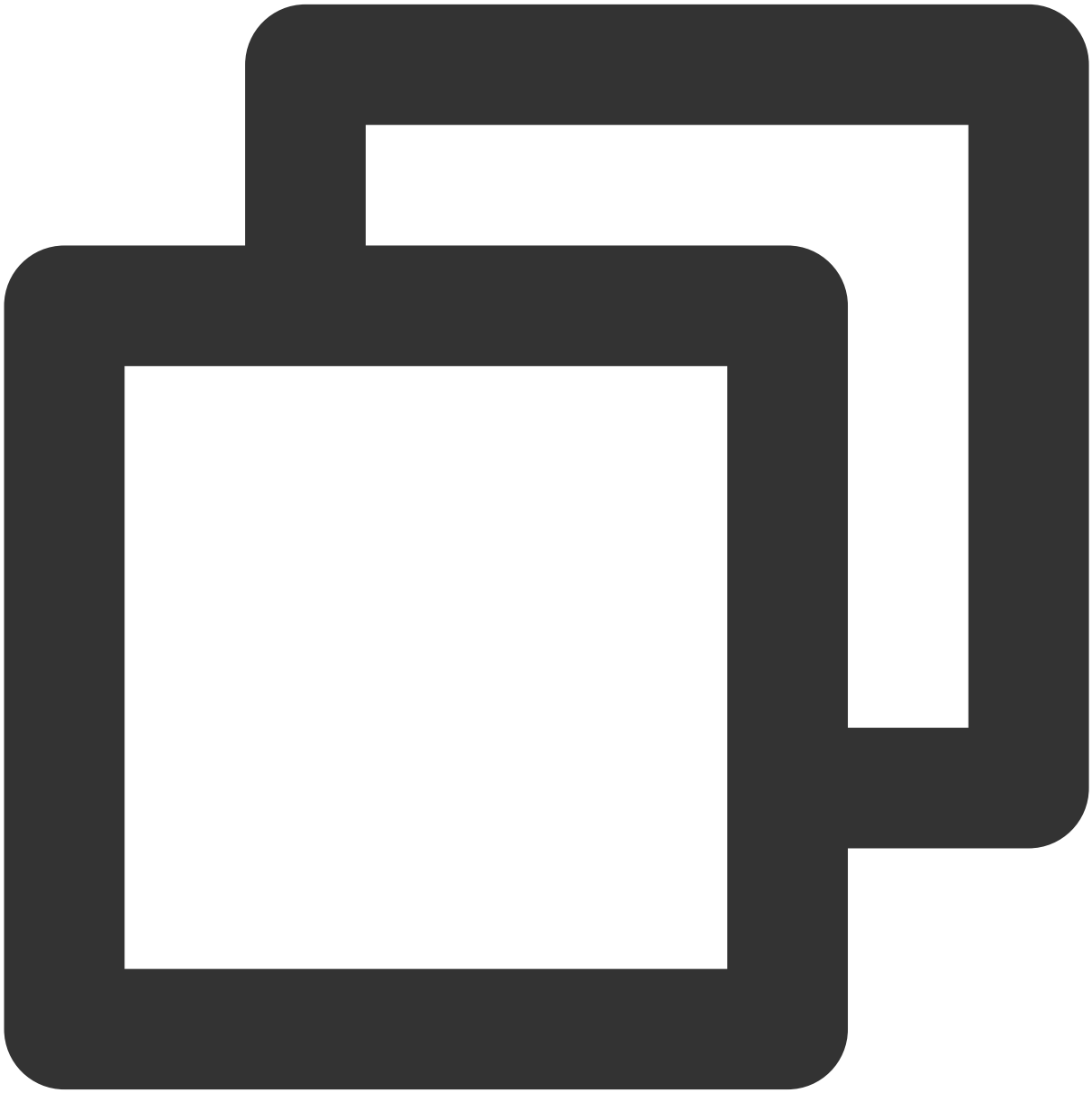

```
POST /doc_jobs HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

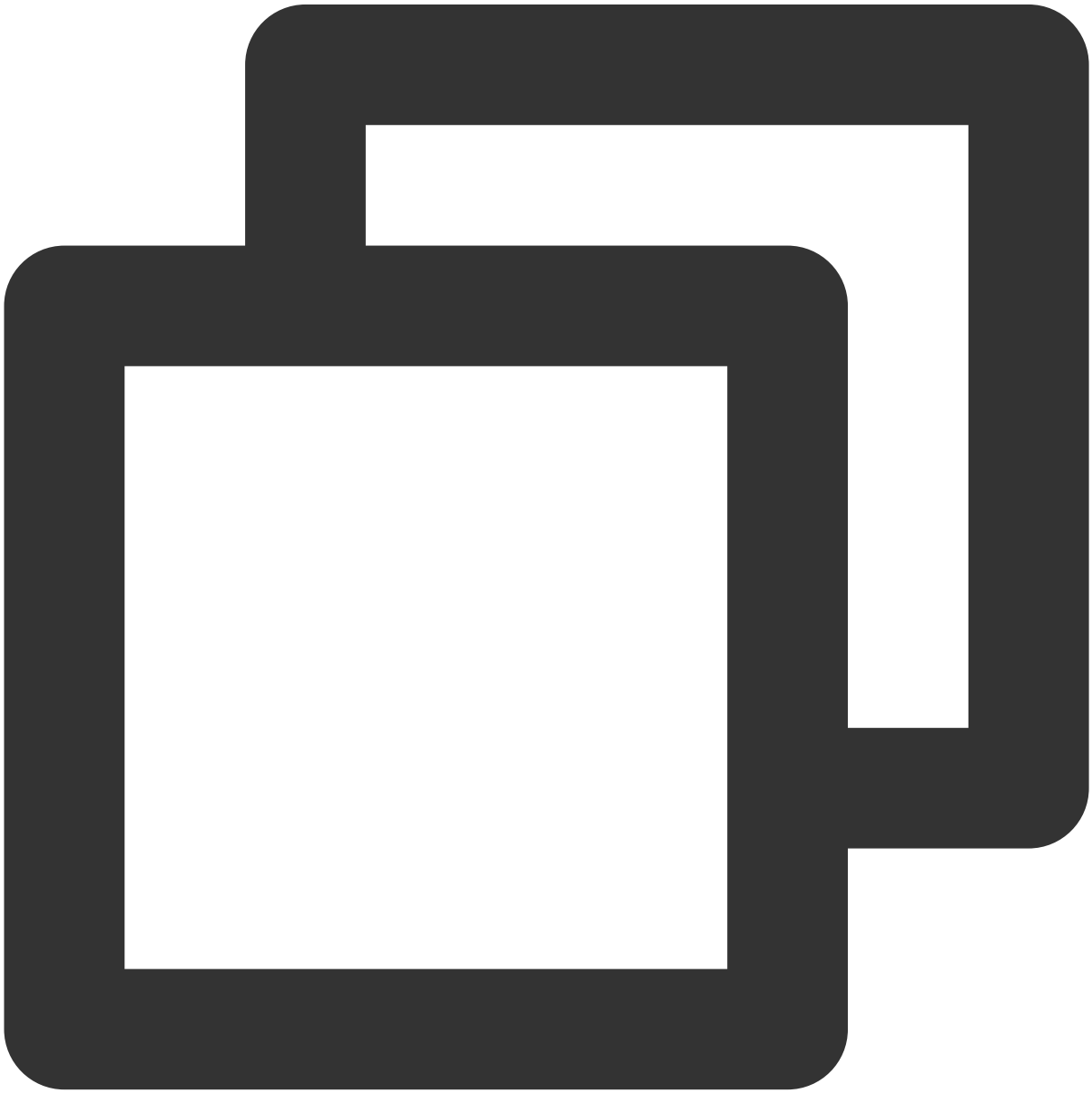
When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
```

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```
    <Tag></Tag>
    <Input>
      <Object></Object>
    </Input>
    <Operation>
      <Output>
        <Region></Region>
        <Bucket></Bucket>
        <Object></Object>
      </Output>
      <DocProcess>
         <StartPage></StartPage>
         <EndPage></EndPage>
         <TgtType></TgtType>
      </DocProcess>
    </Operation>
    <QueueId></QueueId>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job type, which currently can only be `DocProcess`.	String	Yes
Input	Request	The object to be processed	Container	Yes
Operation	Request	Operation rule	Container	Yes
QueueId	Request	Queue ID of the job, which is automatically generated after the preview service is activated. Use the API for querying file transcoding queue to get it, or query it in the bucket in the CI console.	String	Yes

`Input` has the following sub-nodes:

Node Name	Parent Node	Description	Type	Required

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(Keyword)				
Object	Request.Input	File URL in COS. `Bucket` is specified by `Host`.	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
DocProcess	Request.Operation	Task type parameter, which takes effect only if `Tag` is `DocProcess`.	Container	Yes
Output	Request.Operation	Result output address	Container	Yes

`DocProcess` has the following sub-nodes:

Common request parameters

Node Name (Keyword)	Parent Node	Description	Type	Required
SrcType	Request.Operation.DocProcess	Source data type. Currently, the file conversion feature determines the source data type according to the file extension of the COS object. If the object has no extension, you can set this value.	String	Yes
TgtType	Request.Operation.DocProcess	Type of the output target file. Valid values: `jpg`, `png`, `pdf`. If the input file format cannot be recognized, the `jpg` format will be used by default. You cannot specify pages for the `pdf` format.	String	No
StartPage	Request.Operation.DocProcess	Starts conversion from page X. A spreadsheet file may be split into multiple pages, with multiple images generated, and `StartPage` indicates to start the conversion from page X of the specified `SheetId`. Default value: `1`.	Int	No

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EndPage	Request.Operation.DocProcess	Ends conversion on page X. A spreadsheet file may be split into multiple pages, with multiple images generated, and `EndPage` indicates to end the conversion on page X of the specified `SheetId`. Default value: `-1` (converting all pages).	Int	No

Parameters for spreadsheet files (Excel)

Node Name (Keyword)	Parent Node	Description	Type	Required
SheetId	Request.Operation.DocProcess	Sheet parameter, indicating to convert the xth sheet. Default value: `0`. If this value is set to `0`, all sheets will be converted.	Int	No
PaperDirection	Request.Operation.DocProcess	Paper orientation of the spreadsheet. `0`: vertical; other values: horizontal. Default value: `0`.	Int	No
PaperSize	Request.Operation.DocProcess	Page (canvas) size. Valid values: `0` (A4), `1` (A2), `2` (A0). Default value: `0`.	Int	No

Parameters for transcoding to .png/.jpg images

Node Name (Keyword)	Parent Node	Description	Type	Required
ImageParams	Request.Operation.DocProcess	Processing parameters for the output image. All parameters of basic image processing are supported. To specify multiple parameters, separate them by pipeline operator. In this way, the image can be processed by multiple parameters in sequence in the same request.	String	No
Quality	Request.Operation.DocProces	Quality of the generated preview image. Value range: [1-100].	Int	No

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		Default value: `100`. For example, if the value is 100, the quality of the generated image will be 100%.		
Zoom	Request.Operation.DocProces	Scaling parameter of the preview image. Value range: [10-200]. Default value: `100`. For example, if the value is 200, the image will be scaled up (enlarged) by 200%.	Int	No
ImageDpi	Request.Operation.DocProcess	Renders the image according to the specified DPI. This parameter works together with `Zoom`. Value range: 96–600. Default value: `96`. The width of the output image must be less than 65500 px.	Int	No
PicPagination	Request.Operation.DocProcess	Whether to convert to a single long image. When this parameter is set to 1, up to 20 standard pages can be converted to a single long image, and more pages will cause an error. The page range can be controlled by `StartPage` and `EndPage`. The default value is 0, indicating to output images by page. This parameter will take effect only if `TgtType` is `png` or `jpg`.	Int	No

`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Region	Request.Operation.Output	Bucket region	String	Yes
Bucket	Request.Operation.Output	Result storage bucket	String	Yes
Object	Request.Operation.Output	Output file path. **For non-spreadsheet files, the output file name must include the**	String	Yes

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		`${Number}` or `${Page}` parameter. If there are multiple output files, `${Number}` indicates that serial numbers start from 1, and `${Page}` indicates that serial numbers are the same as preview page numbers. `${Number}` indicates that serial numbers start from 1 for multiple output files; for example, if the input parameter is `abc_${Number}.jpg` to preview pages 5–6 in the file, then output file names will be `abc_1.jpg` and `abc_2.jpg`. `${Page}` indicates that serial numbers are the same as preview page numbers for multiple output files; for example, if the input parameter is `abc_${Page}.jpg` to preview pages 5–6 in the file, then the output file names will be `abc_5.jpg` and `abc_6.jpg`. **For spreadsheet files, the output file path must include the `${SheetID}` placeholder, and the output file name must include the `${Number}` parameter.** For example, if the input parameter is `/${SheetID}/abc_${Number}.jpg`, then the corresponding number of folders will be generated first according to the number of Excel sheets to be converted, and then the corresponding number of image files will be generated in these folders.		

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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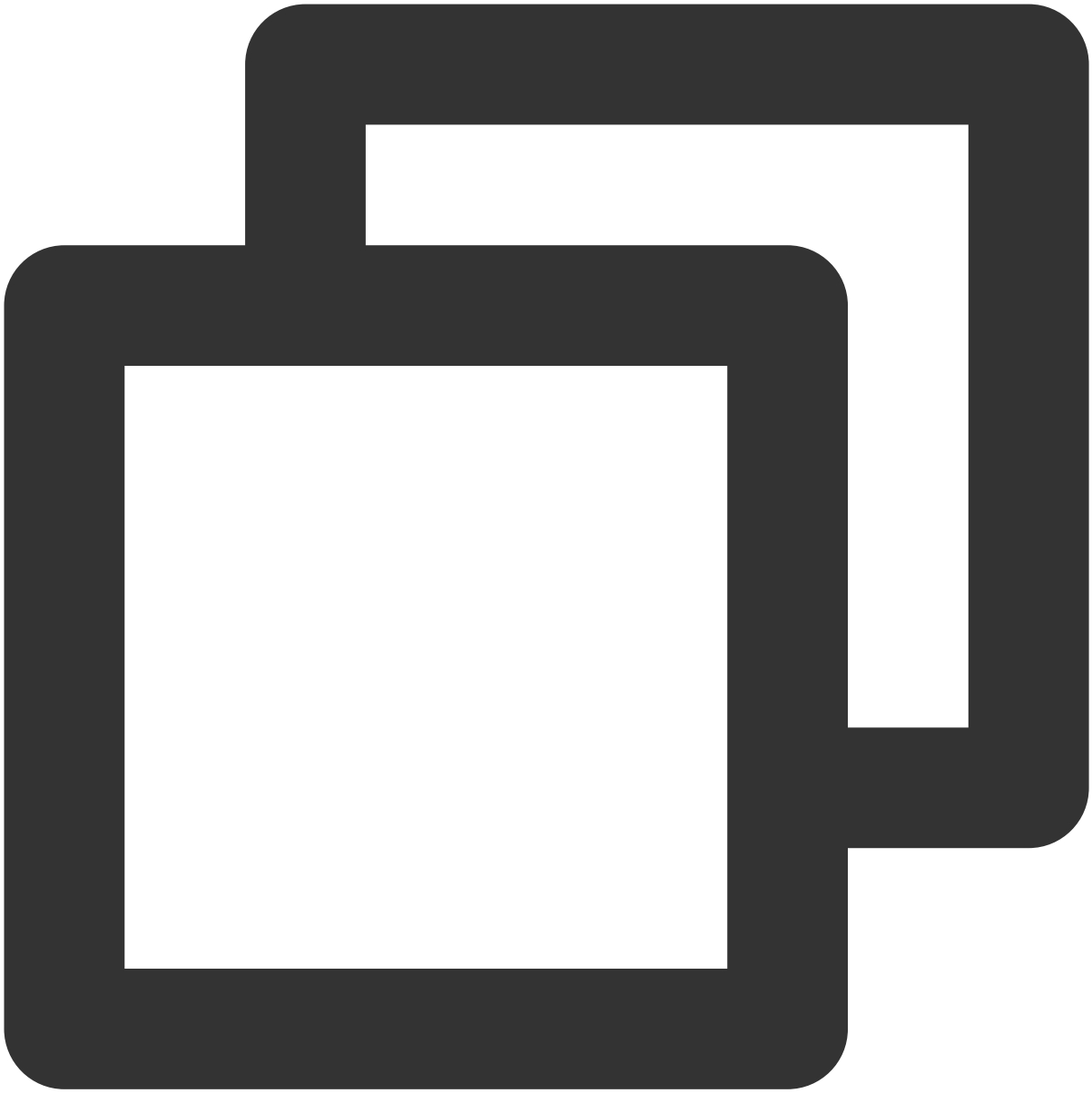

```
<Response>
        <JobsDetail>
                <Code></Code>
                <CreationTime></CreationTime>
                <EndTime></EndTime>
                <Input>
                    <Object></Object>
                </Input>
                <JobId></JobId>
                <Message/>
                <Operation>
```

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```
                    <DocProcess>
                        <SrcType></SrcType>
                        <TgtType></TgtType>
                        <StartPage></StartPage>
                        <EndPage></EndPage>
                        <ImageParams></ImageParams>
                    </DocProcess>
                    <Output>
                        <Bucket></Bucket>
                        <Object></Object>
                        <Region></Region>
                    </Output>
                </Operation>
                <QueueId></QueueId>
                <State></State>
                <Tag></Tag>
        </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is returned only if `State` is `Failed`	String
Message	Response.JobsDetail	Error message, which is returned only if `State` is `Failed`	String
JobId	Response.JobsDetail	Job ID	String
Tag	Response.JobsDetail	Job type: DocProcess	String
State	Response.JobsDetail	Job status. Valid values: `Submitted`, `Running`,	String

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		`Success` , `Failed` , `Pause` , `Cancel` .	
CreationTime	Response.JobsDetail	Job creation time	String
QueueId	Response.JobsDetail	Queue ID of the job	String
Input	Response.JobsDetail	Input file path of the job	Container
Operation	Response.JobsDetail	Operation rule	Container

`Input` has the following sub-nodes:

Same as the `Request.Input` node in the request.

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
DocProcess	Response.JobsDetail.Operation	File preview job parameter	Container
Output	Response.JobsDetail.Operation	File output address	Container

`DocProcess` has the following sub-nodes:

Same as the `Request.Operation.DocProcess` node in the request.

`Output` has the following sub-nodes:

Same as the `Request.Operation.Output` node in the request.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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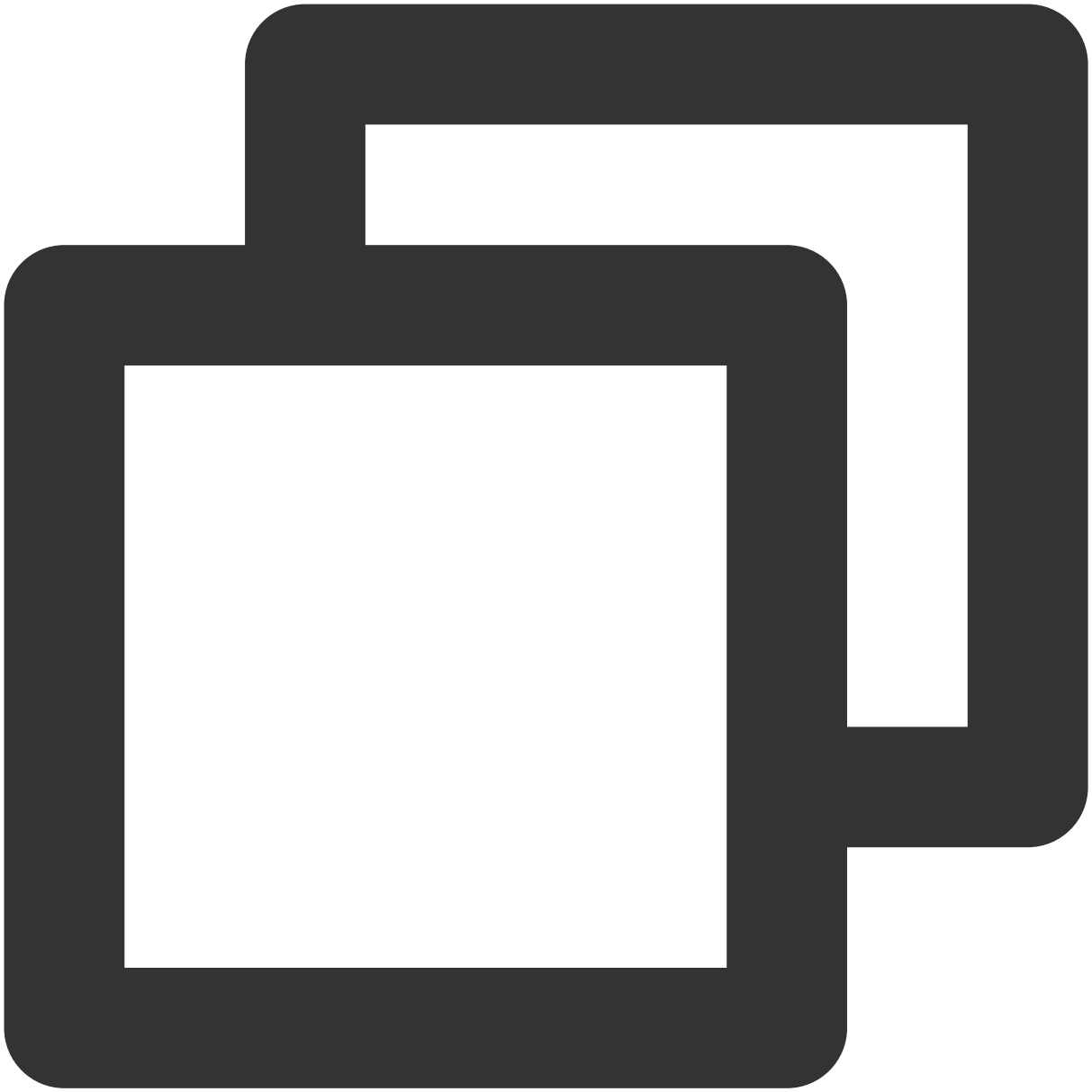

```
POST /doc_jobs HTTP/1.1
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
User-Agent: cos-python-sdk-v5.3.2
Host: examplebucket-1250000000.ci.ap-chongqing.myqcloud.com
Content-Type: application/xml
Content-Length: 546
Authorization: Authorization

<?xml version="1.0" encoding="UTF-8" ?>
```

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```
<Request>
    <Input>
        <Object>1.doc</Object>
    </Input>
    <Operation>
      <Output>
          <Region>ap-chongqing</Region>
          <Object>big/test-${Number}</Object>
          <Bucket>examplebucket-1250000000</Bucket>
      </Output>
      <DocProcess>
          <TgtType>png</TgtType>
          <StartPage>1</StartPage>
          <EndPage>-1</EndPage>
          <ImageParams>watermark/1/image/aHR0cDovL3Rlc3QwMDUtMTI1MTcwNDcwOC5jb3MuYX
      </DocProcess>
    </Operation>
    <Tag>DocProcess</Tag>
    <QueueId>p532fdead78444e649e1a4467c1cd19d3</QueueId>
</Request>[!http]
```

Response

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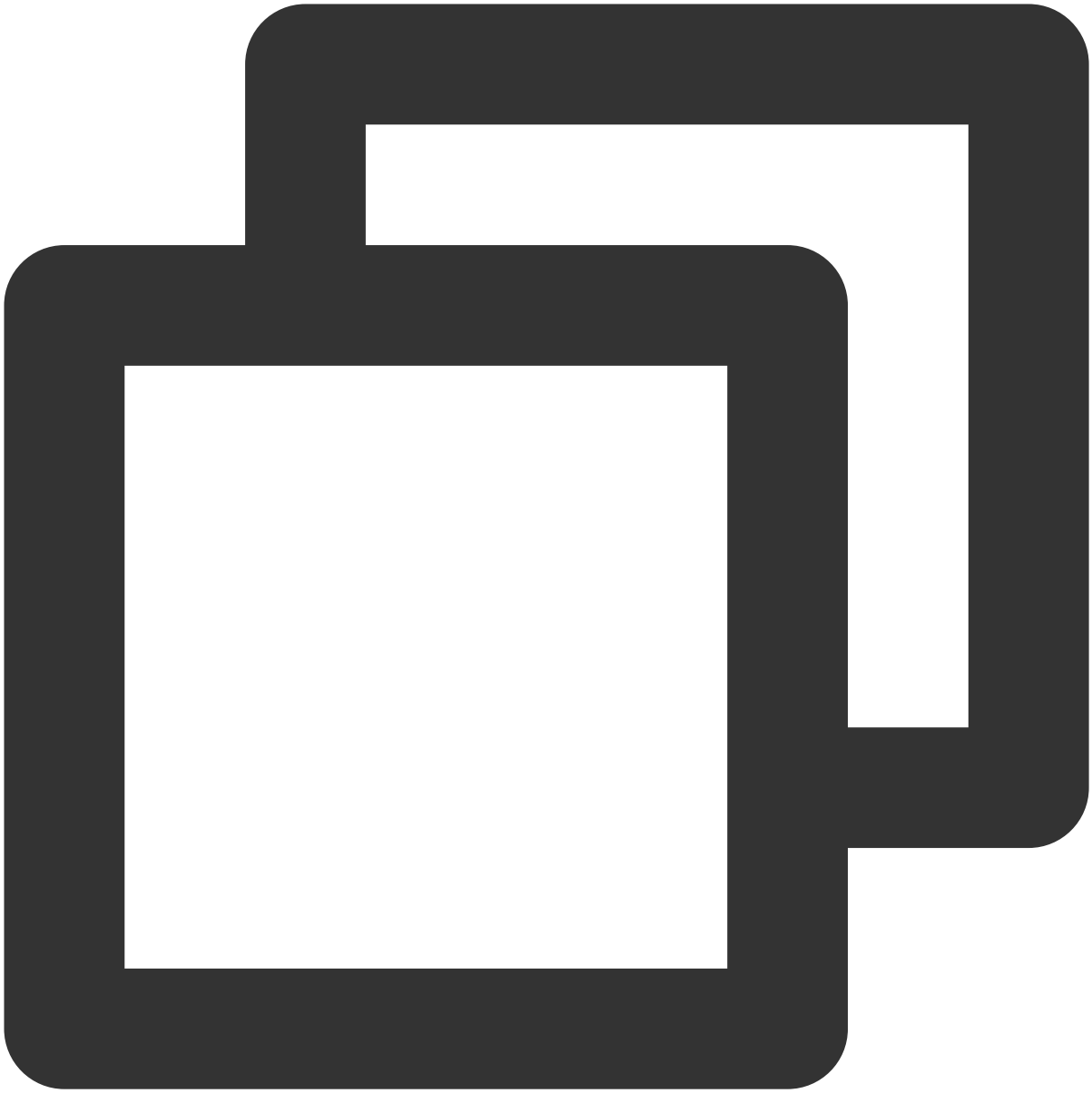

```
HTTP/1.1 200 OK
Date: Mon, 27 Jul 2020 07:20:08 GMT
Content-Type: application/xml
Content-Length: 863
Connection: keep-alive
Server: tencent-ci
x-ci-request-id: NWYxZTgwMjhfYzc2OTQzNjRfMzUx****

<?xml version="1.0" encoding="utf-8"?>
<Response>
        <JobsDetail>
```

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```
                <Code>Success</Code>
                <CreationTime>2020-07-27T15:20:08+0800</CreationTime>
                <EndTime>-</EndTime>
                <Input>
                        <Object>1.doc</Object>
                </Input>
                <JobId>d99b3127ecfd911eab5e60dedb7c395dd</JobId>
                <Message/>
                <Operation>
                        <DocProcess>
                                <EndPage>5001</EndPage>
                                <ImageParams>watermark/1/image/aHR0cDovL3Rlc3QwMDUt
                                <SrcType/>
                                <StartPage>1</StartPage>
                                <TgtType>png</TgtType>
                        </DocProcess>
                        <Output>
                                <Bucket>examplebucket-1250000000</Bucket>
                                <Object>big/test-${Number}</Object>
                                <Region>ap-chongqing</Region>
                        </Output>
                </Operation>
                <QueueId>p532fdead78444e649e1a4467c1cd19d3</QueueId>
                <State>Submitted</State>
                <Tag>DocProcess</Tag>
        </JobsDetail>
</Response>
```

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Querying Specified File Transcoding Job

Last updated：2024-06-12 15:27:03

Feature Description

This API (`DescribeDocProcessJob`) is used to query a specified file transcoding job.

Request

Sample request

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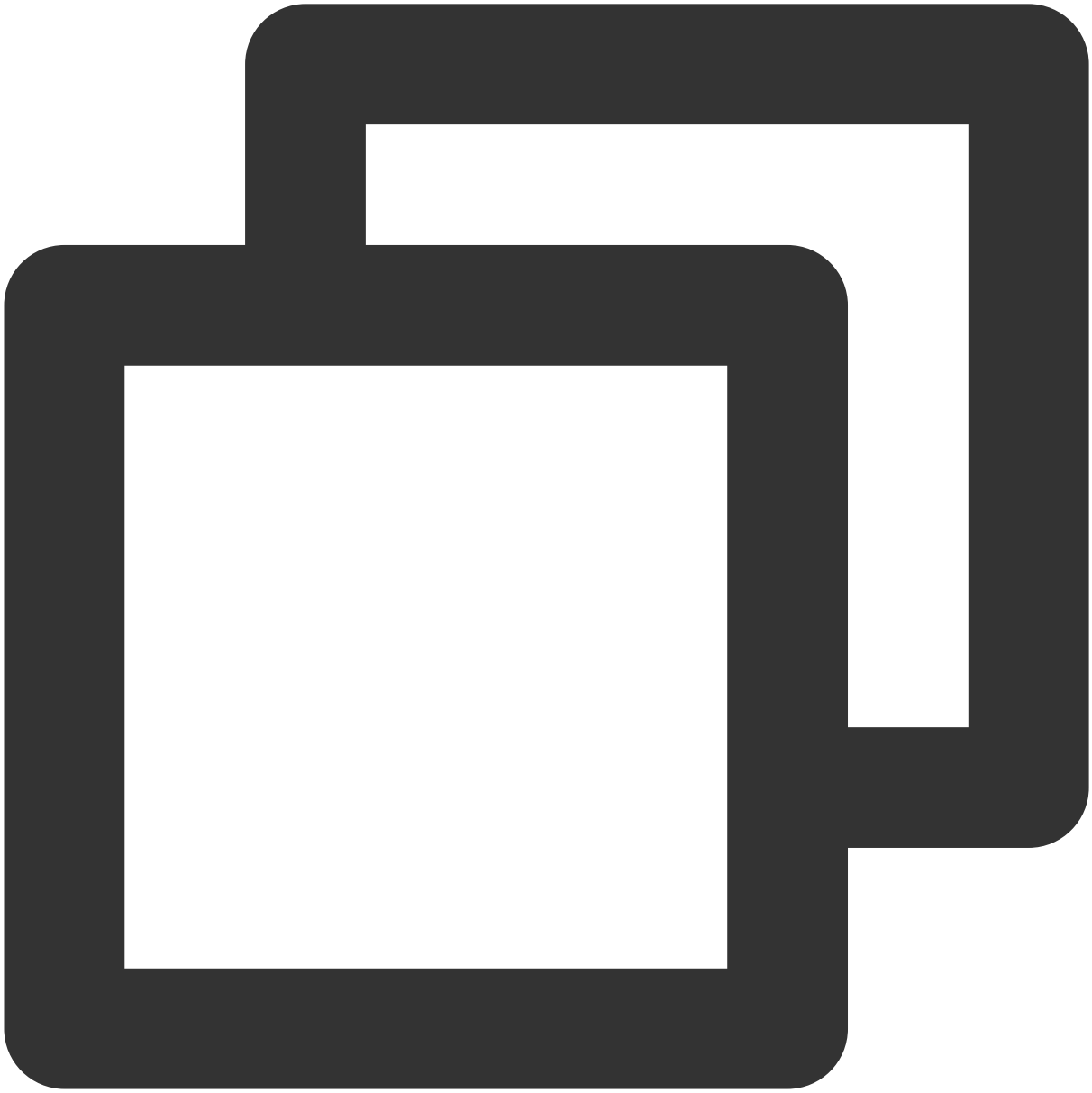

```
GET /doc_jobs/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

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This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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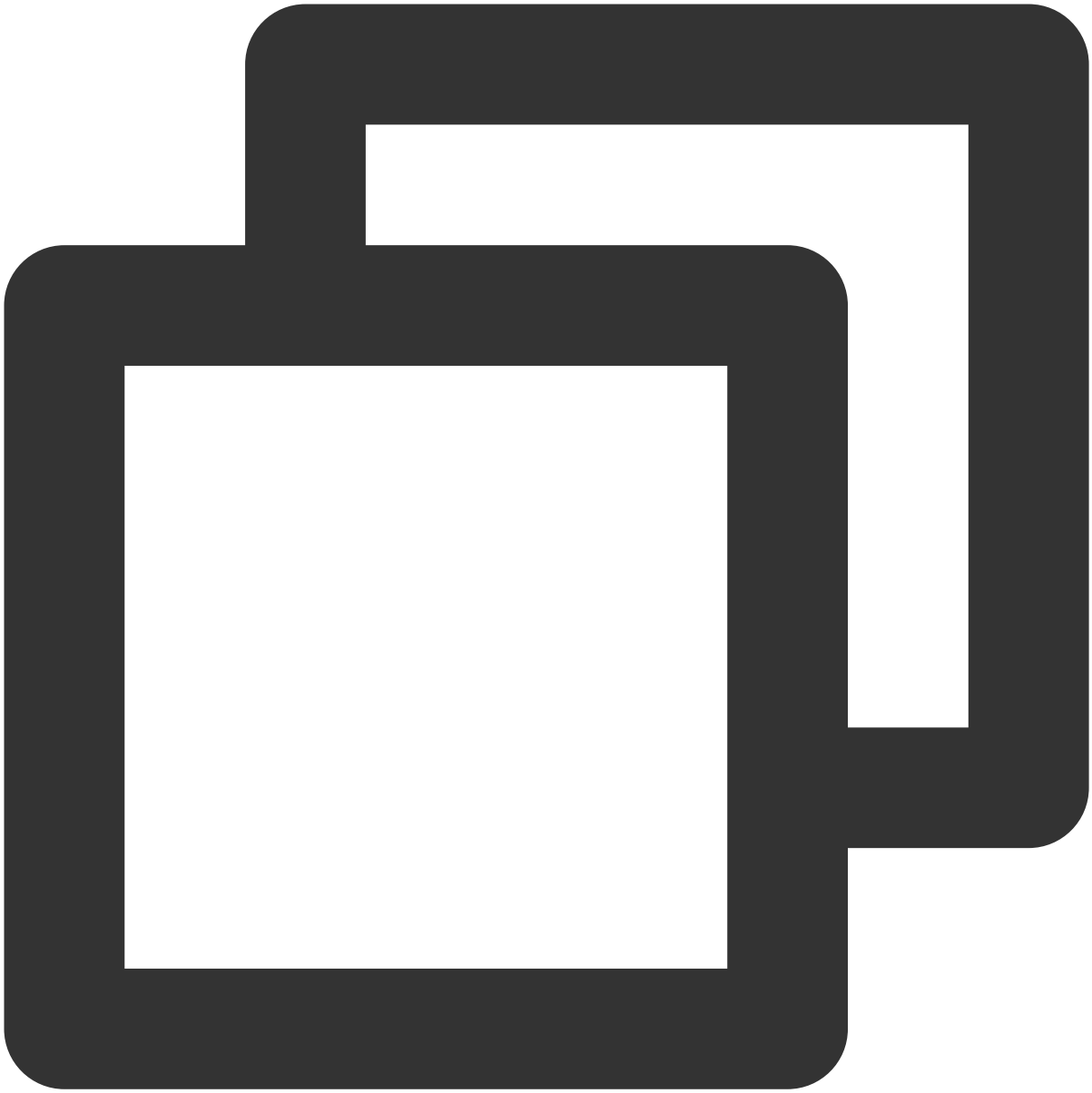

```
<Response>
        <JobsDetail>
                <Code></Code>
                <CreationTime></CreationTime>
                <EndTime></EndTime>
                <Input>
                        <Object></Object>
                </Input>
                <JobId></JobId>
                <Message> </Message>
                <Operation>
```

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```
                        <DocProcess>
                                <EndPage></EndPage>
                                <ImageParams></ImageParams>
                                <SrcType></SrcType>
                                <StartPage></StartPage>
                                <TgtType></TgtType>
                        </DocProcess>
                        <DocProcessResult>
                                <FailPageCount></FailPageCount>
                                <PageInfo>
                                        <PageNo></PageNo>
                                        <TgtUri></TgtUri>
                                </PageInfo>
                                <SuccPageCount></SuccPageCount>
                                <TaskId></TaskId>
                                <TgtType></TgtType/>
                                <TotalPageCount></TotalPageCount>
                        </DocProcessResult>
                        <Output>
                                <Bucket></Bucket>
                                <Object></Object>
                                <Region></Region>
                        </Output>
                </Operation>
                <QueueId></QueueId>
                <State></State>
                <Tag></Tag>
        </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details, which is the same as the `Response.JobsDetail` node in the CreateDocProcessJobs API.	Container
NonExistJobIds	Response	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String

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`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
DocProcess	Response.JobsDetail.Operation	File preview job parameter, which is the same as the `Request.Operation.DocProcess` node in the CreateDocProcessJobs API.	Container
DocProcessResult	Response.JobsDetail.Operation	Returned file preview job result details when the job type is `DocProcess` and the status is `success` .	Container
Output	Response.JobsDetail.Operation	Result output address, which is the same as the `Request.Operation.Output` node in the CreateDocProcessJobs API.	Container

`DocProcessResult` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
PageInfo	Response.JobsDetail.Operation.DocProcessResult	Preview job result details	Container
TgtType	Response.JobsDetail.Operation.DocProcessResult	Target preview result format	String
TotalPageCount	Response.JobsDetail.Operation.DocProcessResult	Total number of preview results	Int
SuccPageCount	Response.JobsDetail.Operation.DocProcessResult	Number of successful preview results	Int
FailPageCount	Response.JobsDetail.Operation.DocProcessResult	Number of failed preview results	Int
TotalSheetCount	Response.JobsDetail.Operation.DocProcessResult	Total number of sheets in the preview job (for Excel source files only)	Int

`PageInfo` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type
PageNo	Response.JobsDetail.Operation.DocProcessResult.PageInfo	Page number of the preview result (or `SheetId` for Excel source files)	Container
TgtUri	Response.JobsDetail.Operation.DocProcessResult.PageInfo	COS bucket path of the preview result	Int
X-SheetPics	Response.JobsDetail.Operation.DocProcessResult.PageInfo	Total number of images generated from the current sheet (for Excel source files only)	Int
PicIndex	Response.JobsDetail.Operation.DocProcessResult.PageInfo	Number of the current preview result in the entire source file (for Excel source files only)	Int
PicNum	Response.JobsDetail.Operation.DocProcessResult.PageInfo	Number of the current preview result in the sheet (for Excel source files only)	Int

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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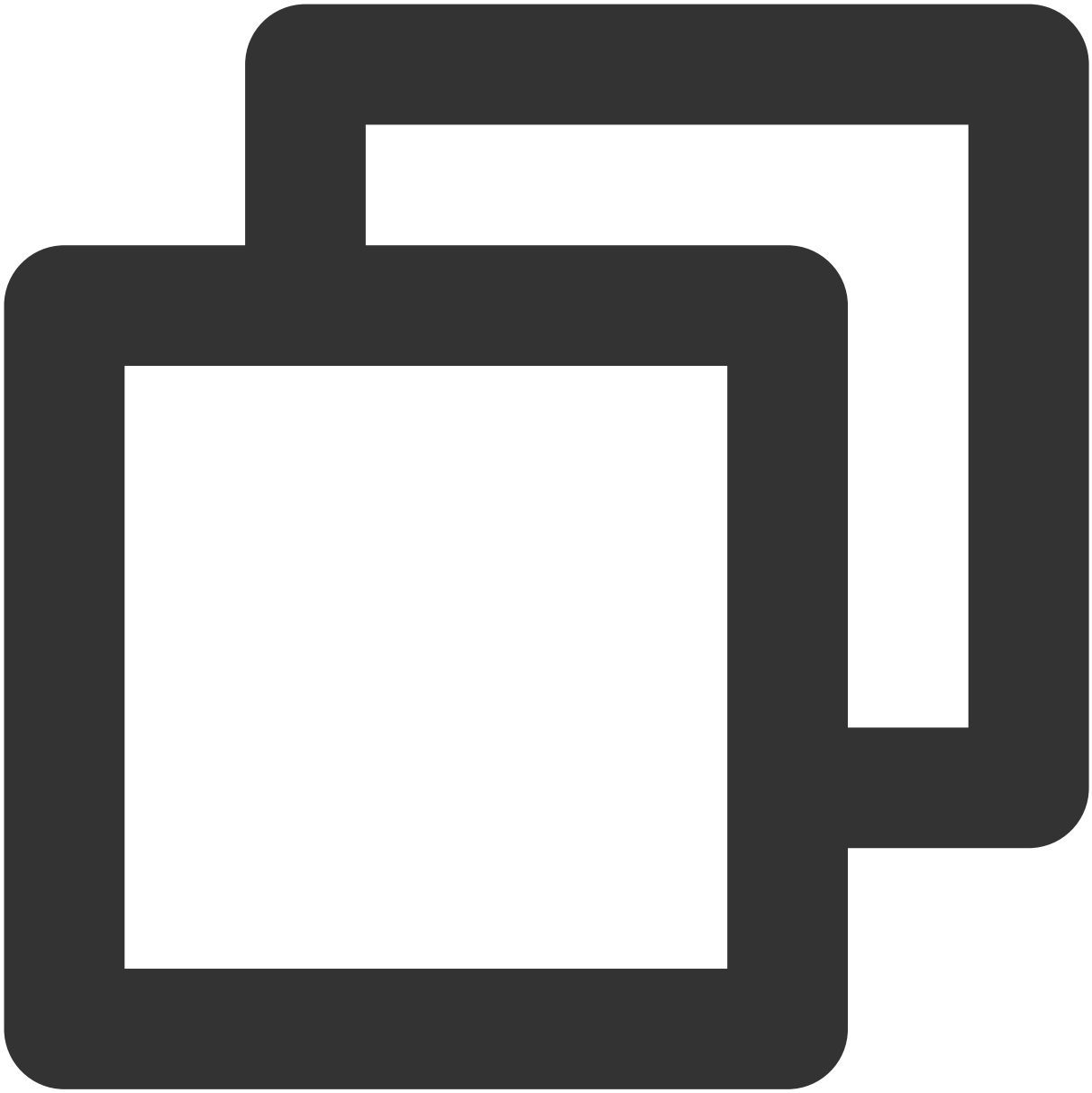

```
GET /doc_jobs/d13cfd584cd9011ea820b597ad1785a2f HTTP/1.1
Accept: */*
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
```

1. Response for a non-Excel file

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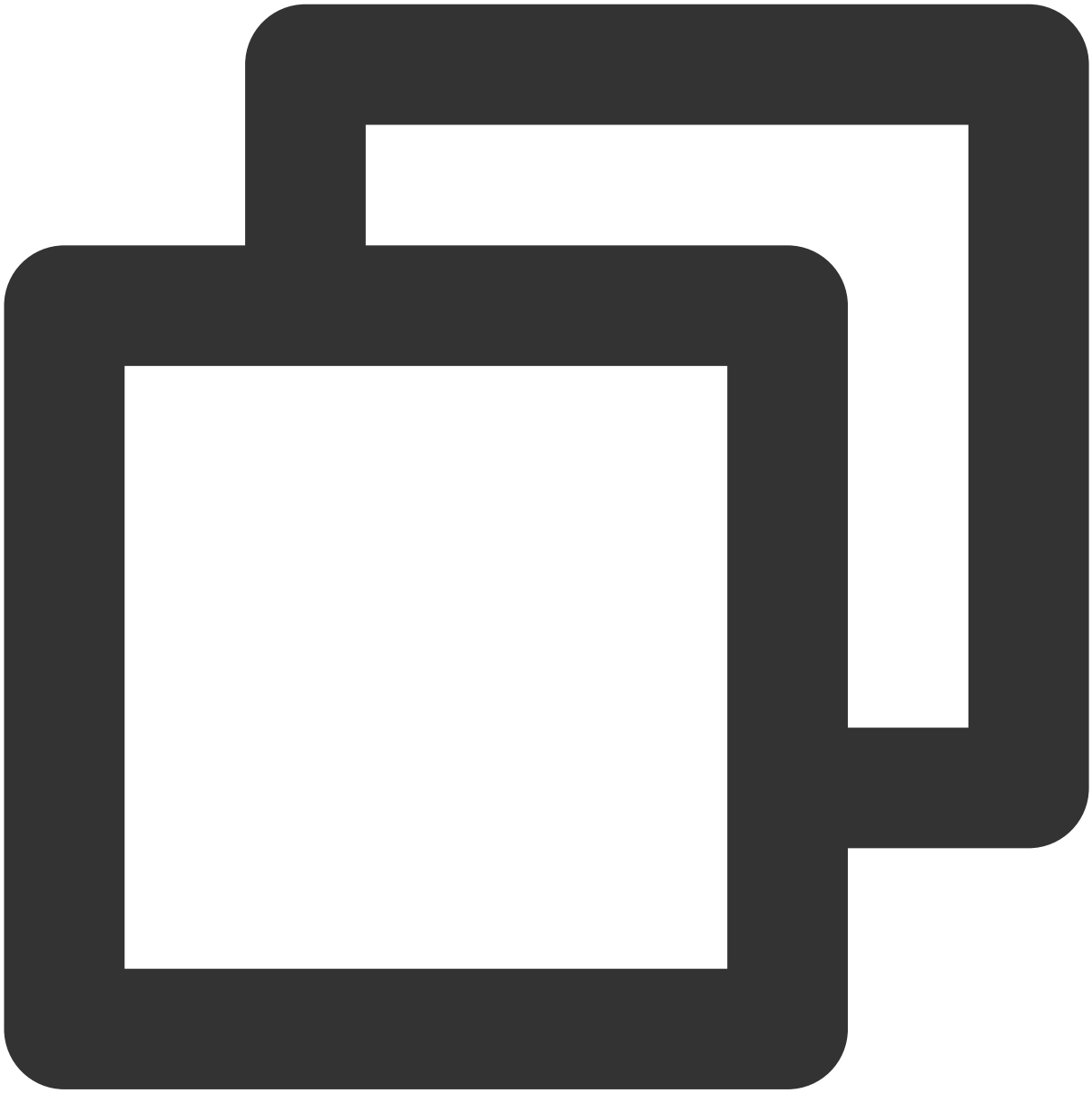

```
<Response>
        <JobsDetail>
                <Code>Success</Code>
                <CreationTime>2020-07-24T17:28:47+0800</CreationTime>
                <EndTime>2020-07-24T17:28:49+0800</EndTime>
                <Input>
                        <Object>1.doc</Object>
                </Input>
                <JobId>d13cfd584cd9011ea820b597ad1785a2f</JobId>
                <Message/>
                <Operation>
```

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```
                        <DocProcess>
                                <EndPage>0</EndPage>
                                <ImageParams/>
                                <SrcType/>
                                <StartPage>2</StartPage>
                                <TgtType>png</TgtType>
                        </DocProcess>
                        <DocProcessResult>
                                <FailPageCount>0</FailPageCount>
                                <PageInfo>
                                        <PageNo>2</PageNo>
                                        <TgtUri>big/test-1</TgtUri>
                                </PageInfo>
                                <SuccPageCount>1</SuccPageCount>
                                <TaskId/>
                                <TgtType/>
                                <TotalPageCount>2</TotalPageCount>
                        </DocProcessResult>
                        <Output>
                                <Bucket>examplebucket-1250000000</Bucket>
                                <Object>big/test-${Number}</Object>
                                <Region>ap-chongqing</Region>
                        </Output>
                </Operation>
                <QueueId>p50882922b848464fadd222d771438328</QueueId>
                <State>Success</State>
                <Tag>DocProcess</Tag>
        </JobsDetail>
</Response>
```

2. Response for an Excel file

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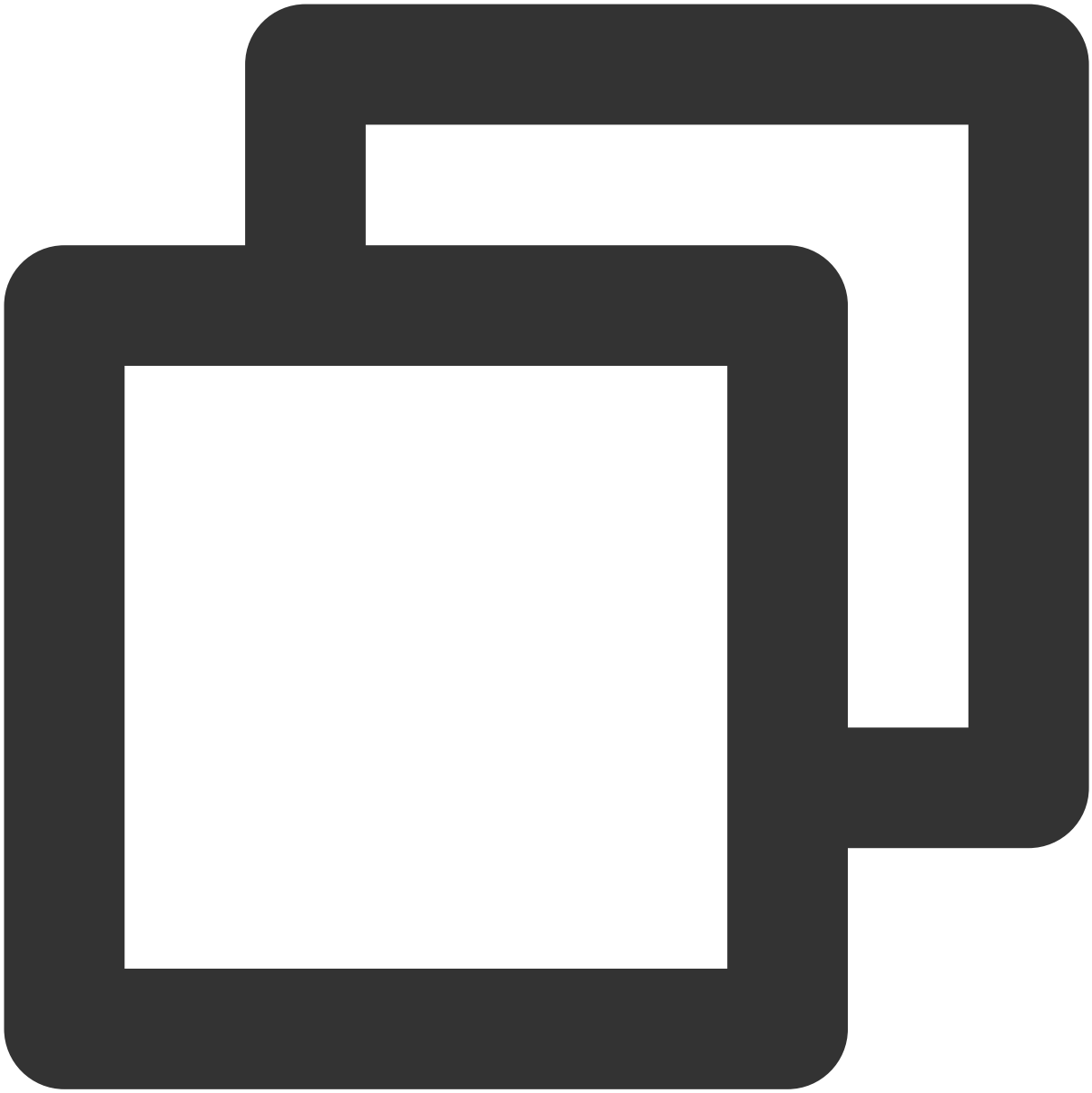

```
<Response>
        <JobsDetail>
                <Code>Success</Code>
                <CreationTime>2020-12-03T19:54:10+0800</CreationTime>
                <EndTime>2020-12-03T19:54:13+0800</EndTime>
                <Input>
                        <Object>1.xlsx</Object>
                </Input>
                <JobId>d13cfd584cd9011ea820b597ad1785a2f</JobId>
                <Message/>
                <Operation>
```

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```
                        <DocProcess>
                                <Comments>0</Comments>
                                <DocPassword/>
                                <EndPage>2</EndPage>
                                <ImageParams/>
                                <PaperDirection>0</PaperDirection>
                                <PaperSize>0</PaperSize>
                                <Quality>100</Quality>
                                <SheetId>0</SheetId>
                                <SrcType/>
                                <StartPage>1</StartPage>
                                <TgtType/>
                                <Zoom>100</Zoom>
                        </DocProcess>
                        <DocProcessResult>
                                <FailPageCount>0</FailPageCount>
                                <PageInfo>
                                        <PageNo>1</PageNo>
                                        <PicIndex>1</PicIndex>
                                        <PicNum>1</PicNum>
                                        <TgtUri>mark2/1/test-1.jpg</TgtUri>
                                        <X-SheetPics>2</X-SheetPics>
                                </PageInfo>
                                <PageInfo>
                                        <PageNo>1</PageNo>
                                        <PicIndex>2</PicIndex>
                                        <PicNum>2</PicNum>
                                        <TgtUri>mark2/1/test-2.jpg</TgtUri>
                                        <X-SheetPics>2</X-SheetPics>
                                </PageInfo>
                                <SuccPageCount>6</SuccPageCount>
                                <TaskId/>
                                <TgtType/>
                                <TotalPageCount>6</TotalPageCount>
                                <TotalSheetCount>3</TotalSheetCount>
                        </DocProcessResult>
                        <Output>
                                <Bucket>markjrzhang-1251704708</Bucket>
                                <Object>mark/${SheetID}/pic-${Page}.jpg</Object>
                                <Region>ap-chongqing</Region>
                        </Output>
                </Operation>
                <QueueId>p5fdbba9a9b83479f84538d5beb*****</QueueId>
                <State>Success</State>
                <Tag>DocProcess</Tag>
        </JobsDetail>
</Response>
```

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Pulling Eligible File Transcoding Jobs

Last updated：2024-06-12 15:27:04

Feature Description

The API (`DescribeDocProcessJobs`) is used to pull file transcoding jobs that meet specified conditions, such as status and creation time.

Request

Sample request

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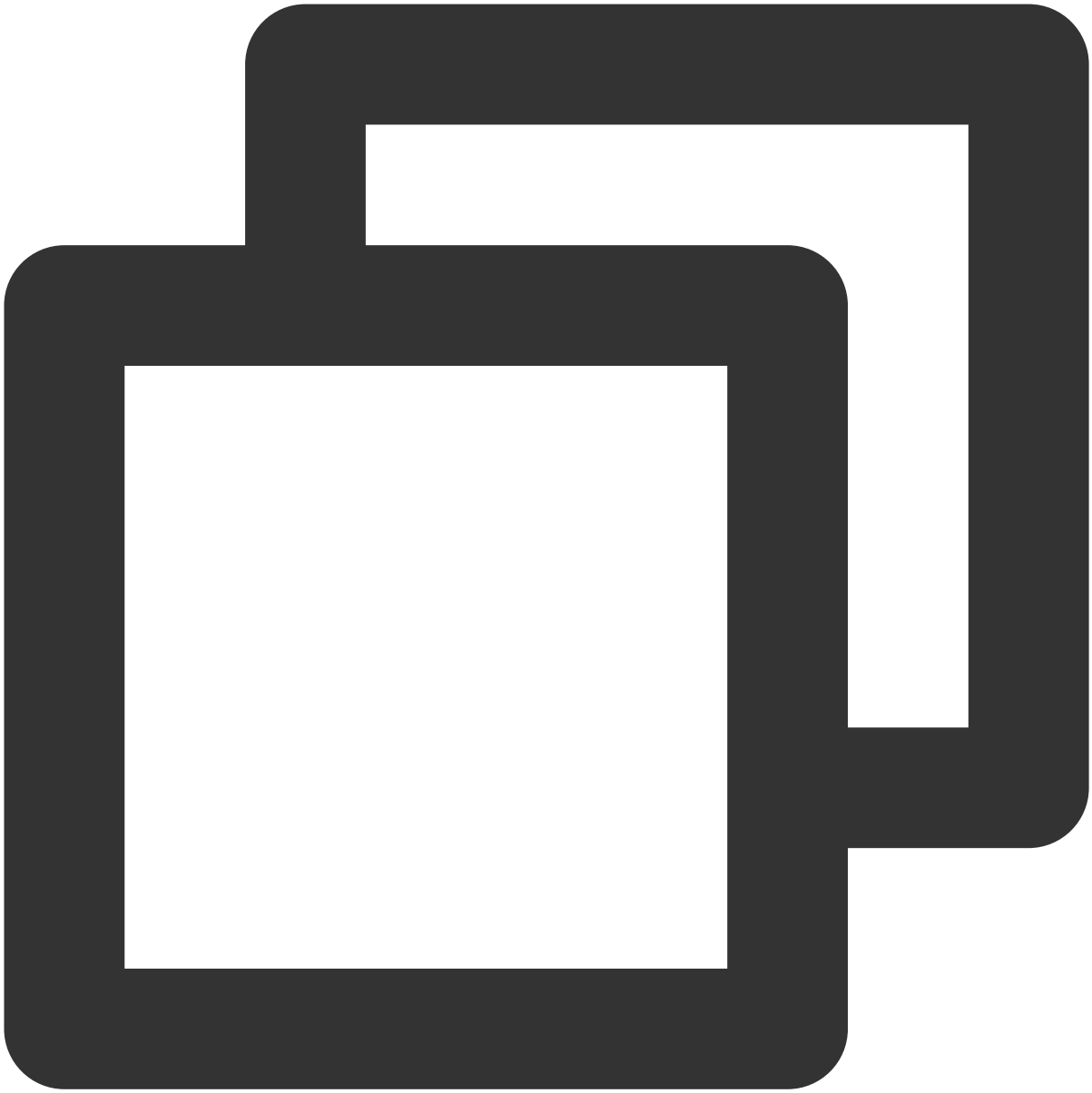

```
GET /doc_jobs?queueId=<queueId>&tag=DocProcess HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

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Request body

This request does not have a request body.

Request parameters

The parameters are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
queueId	None	ID of the queue from which jobs are pulled.	String	Yes
tag	None	Job type: DocProcess.	String	Yes
orderByTime	None	`Desc` (default) or `Asc`.	String	No
nextToken	None	Context token for pagination.	String	No
size	None	Maximum number of jobs that can be pulled. The default value is 10. The maximum value is 100.	Integer	No
states	None	Status of the jobs to pull. If you enter multiple job statuses, separate them by comma. Valid values: All (default), Submitted, Running, Success, Failed, Pause, Cancel.	String	No
startCreationTime	None	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String	No
endCreationTime	None	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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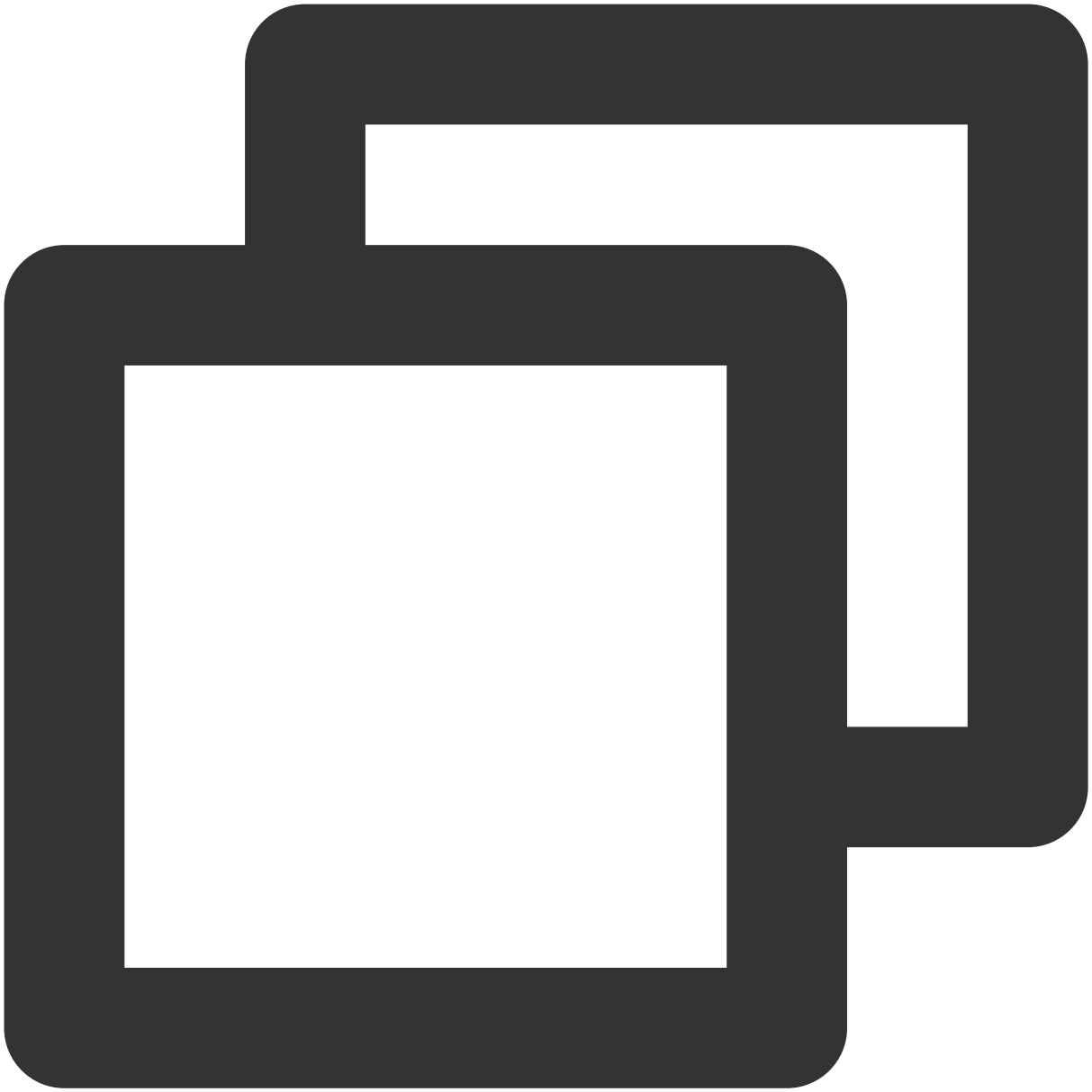

```
<Response>
  <JobsDetail></JobsDetail>
  <NextToken></NextToken>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details. Same as `Response.JobsDetail` in CreateDocProcessJobs.	Container
NextToken	Response	Context token for pagination	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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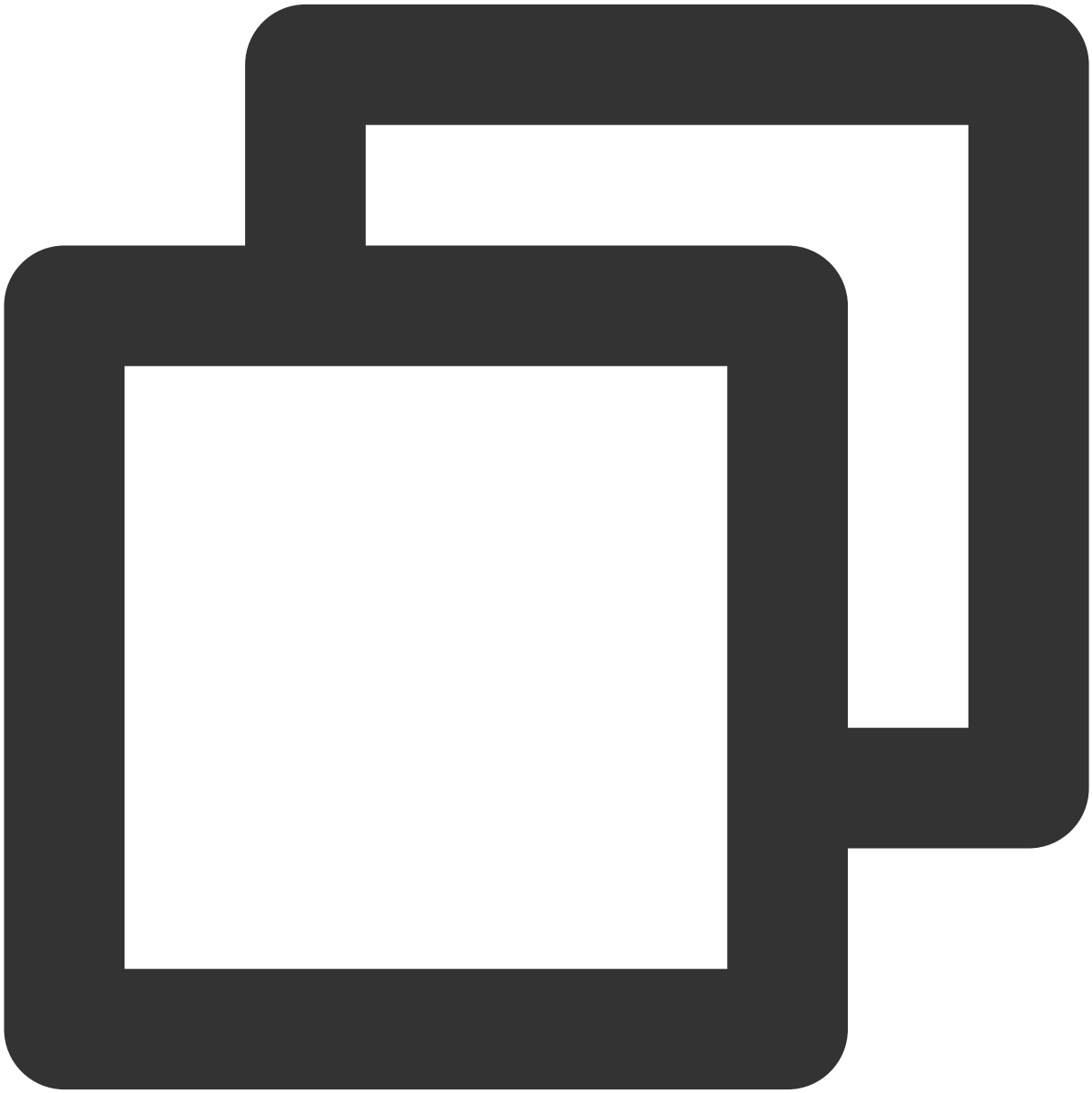

```
GET /doc_jobs/queueId=QueueId&tag=DocProcess HTTP/1.1
Accept: */*
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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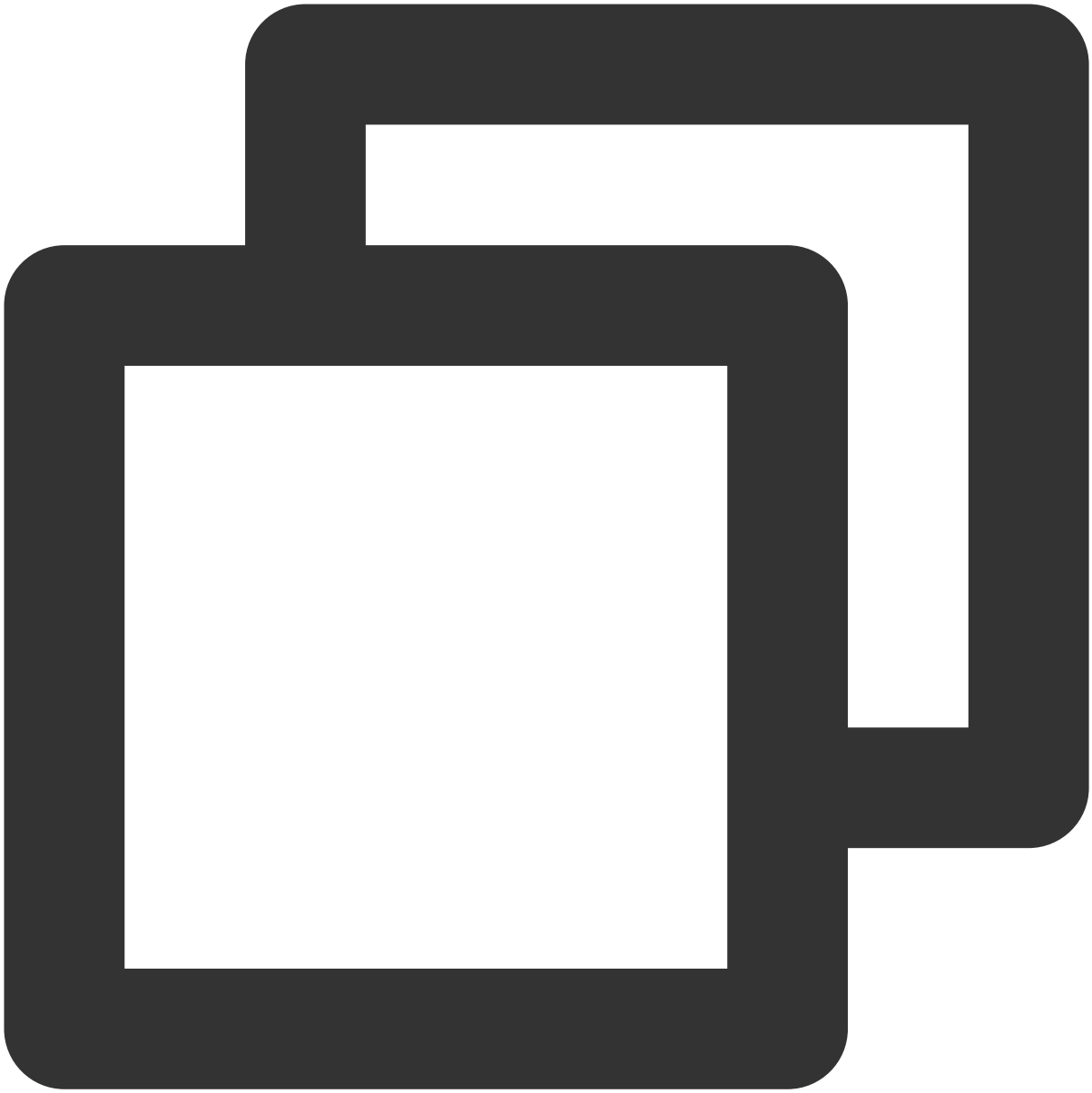

```
<Response>
        <JobsDetail>
                <Code>Success</Code>
                <CreationTime>2020-07-20T10:43:17+0800</CreationTime>
                <EndTime>-</EndTime>
                <Input>
                        <Object>1.docx</Object>
                </Input>
                <JobId>JobId</JobId>
                <Message/>
                <Operation>
```

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```
                        <DocProcess>
                                <EndPage>1</EndPage>
                                <ImageParams>ImageParams</ImageParams>
                                <SrcType/>
                                <StartPage>1</StartPage>
                                <TgtType>png</TgtType>
                        </DocProcess>
                        <Output>
                                <Bucket>BucketId</Bucket>
                                <Object>file/test-${Page}.jpg</Object>
                                <Region>Region</Region>
                        </Output>
                </Operation>
                <QueueId>QueueId</QueueId>
                <State>Submitted</State>
                <Tag>DocProcess</Tag>
        </JobsDetail>
        <JobsDetail>
                <Code>Success</Code>
                <CreationTime>2020-07-20T10:43:17+0800</CreationTime>
                <EndTime>-</EndTime>
                <Input>
                        <Object>test.docx</Object>
                </Input>
                <JobId>JobId</JobId>
                <Message/>
                <Operation>
                        <DocProcess>
                                <EndPage>1</EndPage>
                                <ImageParams>ImageParams</ImageParams>
                                <SrcType/>
                                <StartPage>1</StartPage>
                                <TgtType>png</TgtType>
                        </DocProcess>
                        <Output>
                                <Bucket>BucketId</Bucket>
                                <Object>file/test-${Page}.jpg</Object>
                                <Region>Region</Region>
                        </Output>
                </Operation>
                <QueueId>QueueId</QueueId>
                <State>Submitted</State>
                <Tag>DocProcess</Tag>
        </JobsDetail>
        <NextToken>19193</NextToken>
</Response>
```

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Async Processing Queue APIs
Querying File Transcoding Queue

Last updated：2024-06-12 15:27:04

Feature Description

This API (`DescribeDocProcessQueues`) is used to query file transcoding queues.

Request

Sample request

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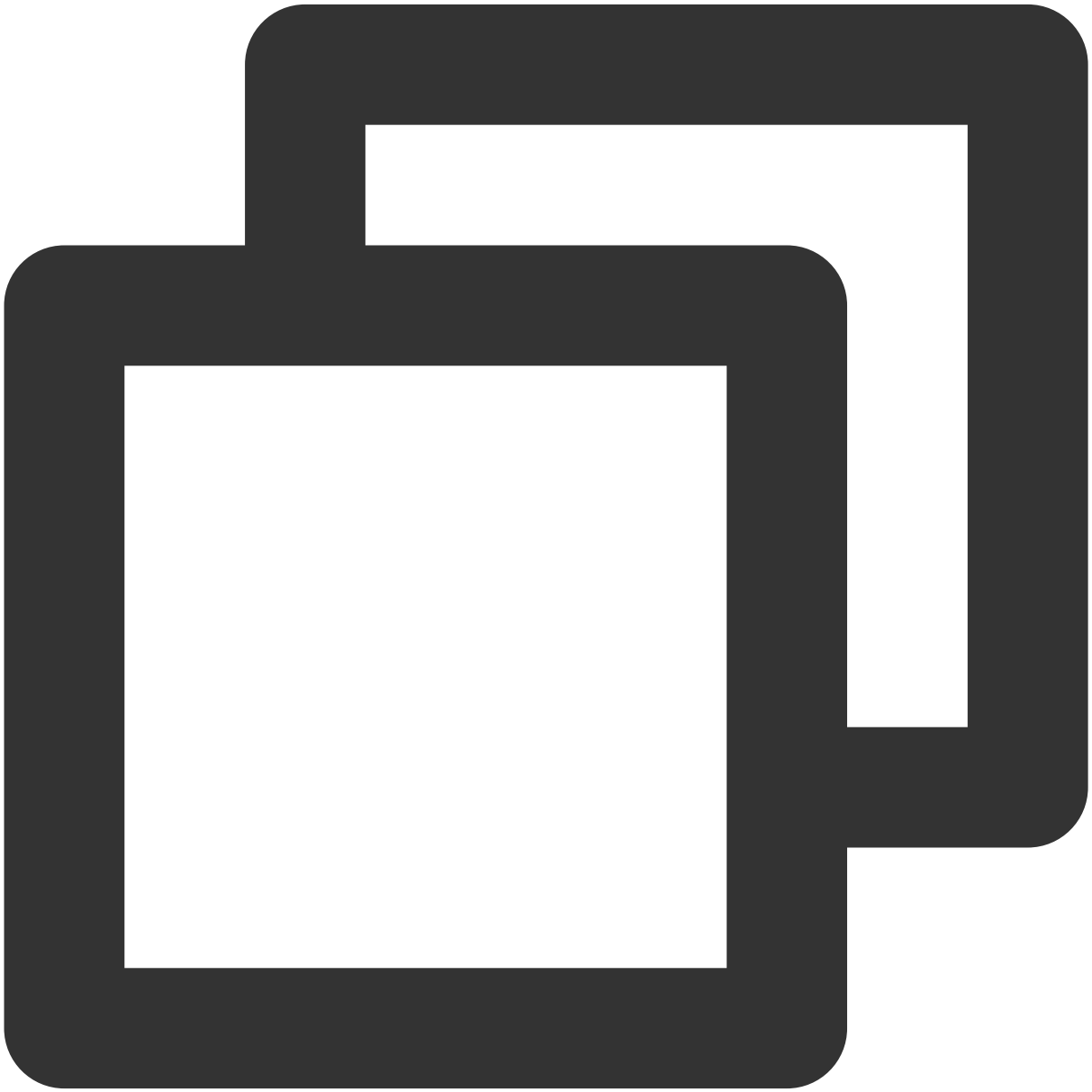

```
GET /docqueue?pageNumber=1&pageSize=2 HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

Parameter	Description	Type	Required
queueIds	Queue ID. If you enter multiple IDs, separate them by comma.	string	No
state	1. Active: Jobs in the queue will be scheduled and executed by the file preview service. 2. Paused: The queue is paused, and jobs in it will no longer be scheduled and executed. All jobs in the queue will remain in the `Paused` status, while jobs being executed will continue without being affected.	String	No
pageNumber	Page number. Default value: the first page.	string	No
pageSize	Number of entries per page. Default value: `10` .	string	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data.

Response body 1: The following contains all the nodes when `pageNumber` and `pageSize` are specified.

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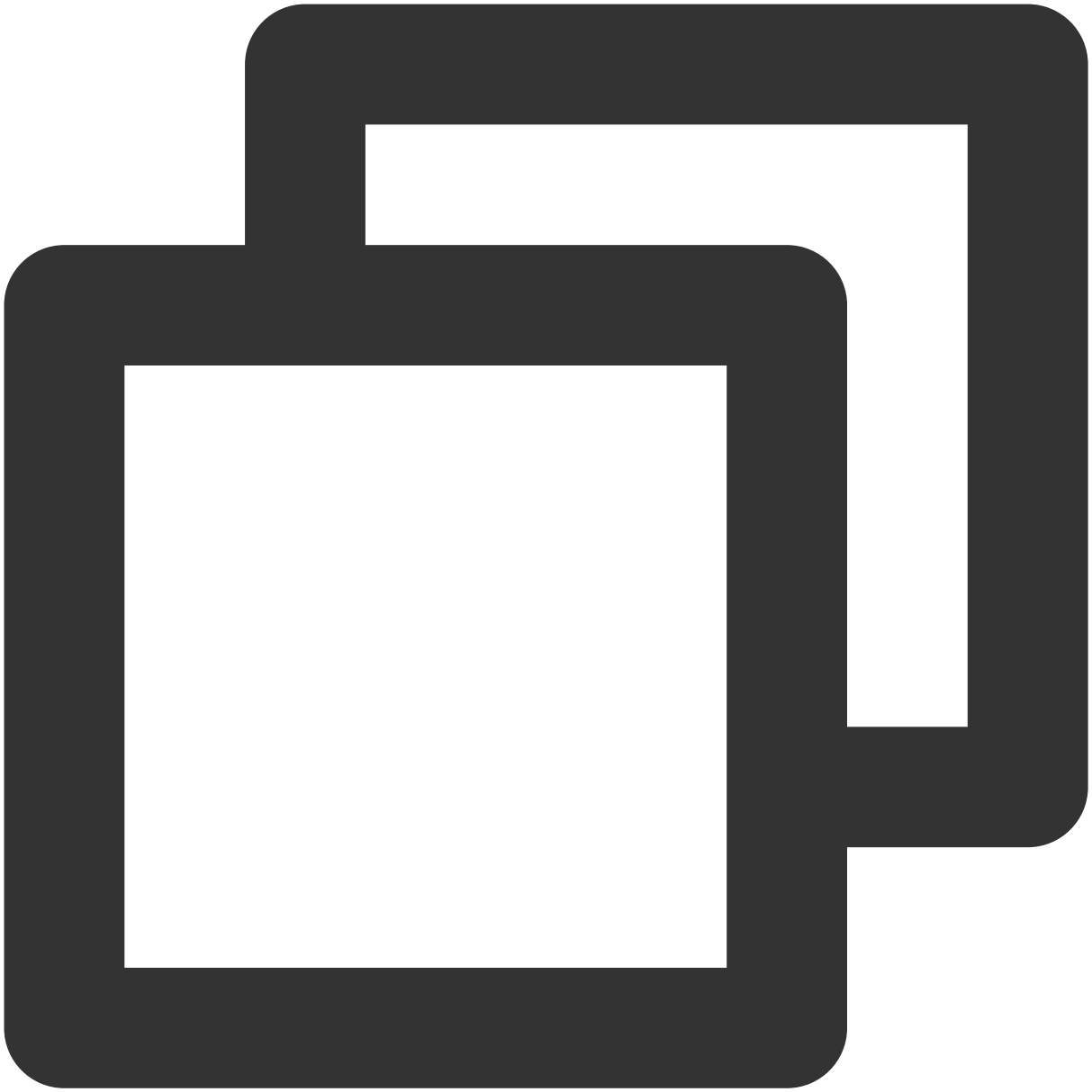

```
<Response>
        <TotalCount>1</TotalCount>
        <RequestId>RequestId</RequestId>
        <PageNumber>1</PageNumber>
        <PageSize>2</PageSize>
        <QueueList>
                <QueueId>QueueId</QueueId>
                <Name>QueueName</Name>
                <State>Active</State>
                <NotifyConfig>
                        <Url>url</Url>
```

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```
                        <Event>Event</Event>
                        <Type/></Type>
                        <State>Off</State>
                </NotifyConfig>
                <MaxSize>10000</MaxSize>
                <MaxConcurrent>10</MaxConcurrent>
                <CreateTime>CreateTime</CreateTime>
                <UpdateTime>UpdateTime</UpdateTime>
                <BucketId>BucketId</BucketId>
                <Category>DocProcess</Category>
        </QueueList>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
TotalCount	Response	Total number of queues	Int
PageNumber	Response	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Response	Number of entries per page, which is the same as `pageSize` in the request.	Int
QueueList	Response	Queue array	Container

`QueueList` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
QueueId	Response.QueueList	Queue ID	String
Name	Response.QueueList	Queue name	String
State	Response.QueueList	Current status: `Active` or `Paused`	String
NotifyConfig	Response.QueueList	Callback configuration	Container

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MaxSize	Response.QueueList	Maximum length of the queue	Int
MaxConcurrent	Response.QueueList	Maximum number of concurrent jobs in the current queue	Int
UpdateTime	Response.QueueList	Update time	String
CreateTime	Response.QueueList	Creation time	String

`NotifyConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Url	Response.QueueList.NotifyConfig	Callback address	String
State	Response.QueueList.NotifyConfig	Switch status: `On` or `Off`	String
Type	Response.QueueList.NotifyConfig	Callback type: Url	String
Event	Response.QueueList.NotifyConfig	The event that triggered the callback	String

Response body 2: The following contains all the nodes when `queueIds` is specified.

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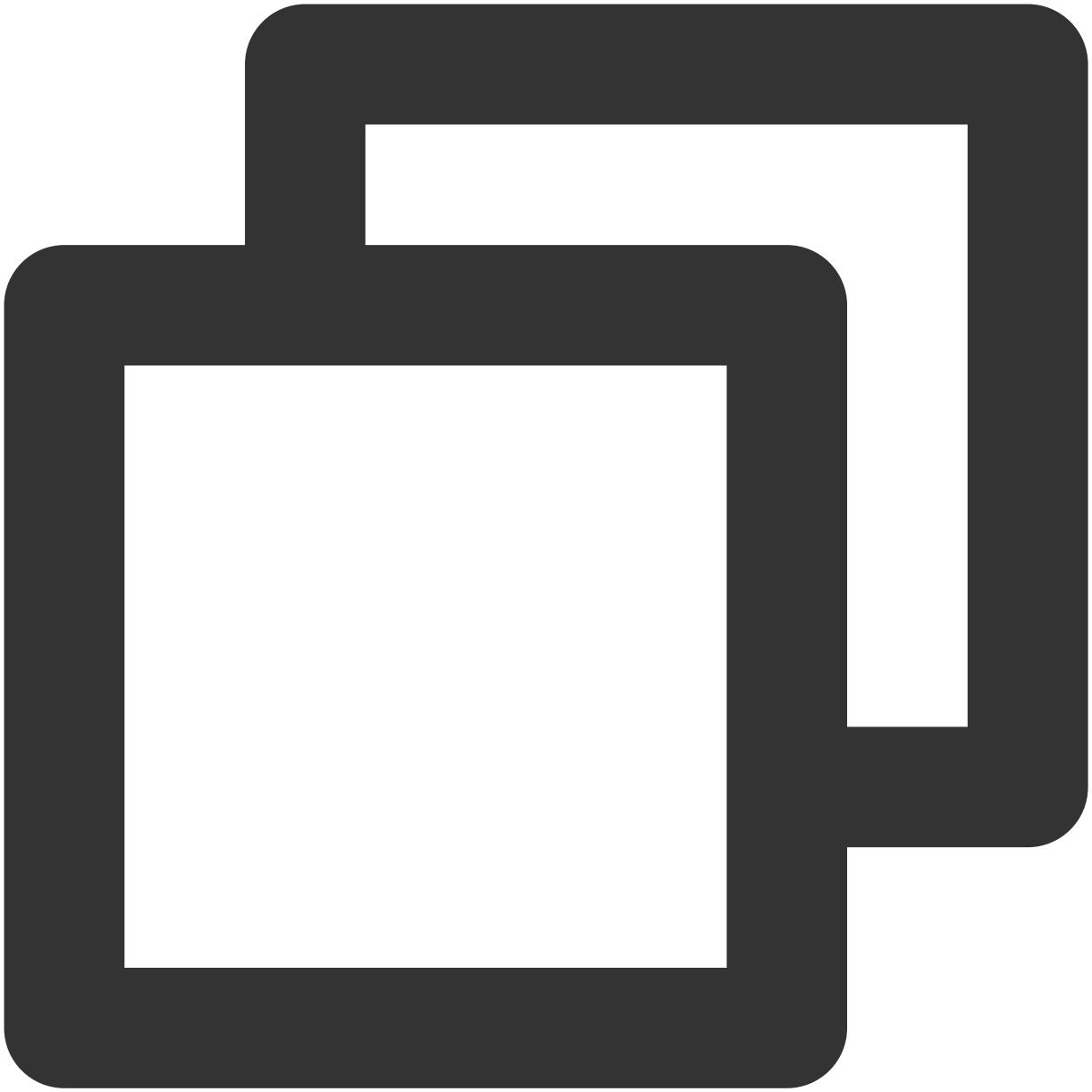

```
<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <QueueList>
        <QueueId>A</QueueId>
        <Name></Name>
        <State>Active</State>
        <NotifyConfig>
            <Url></Url>
        </NotifyConfig>
    </QueueList>
    <NonExistPIDs>
```

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```
        <QueueID>B</QueueID>
        <QueueID>C</QueueID>
    </NonExistPIDs>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
QueueList	Response	Queue array, which is the same as `QueueList` described above.	Container
NonExistPIDs	Response	List of non-existing queue IDs	Container

`NonExistPIDs` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
QueueID	Response.NonExistPIDs	Queue ID	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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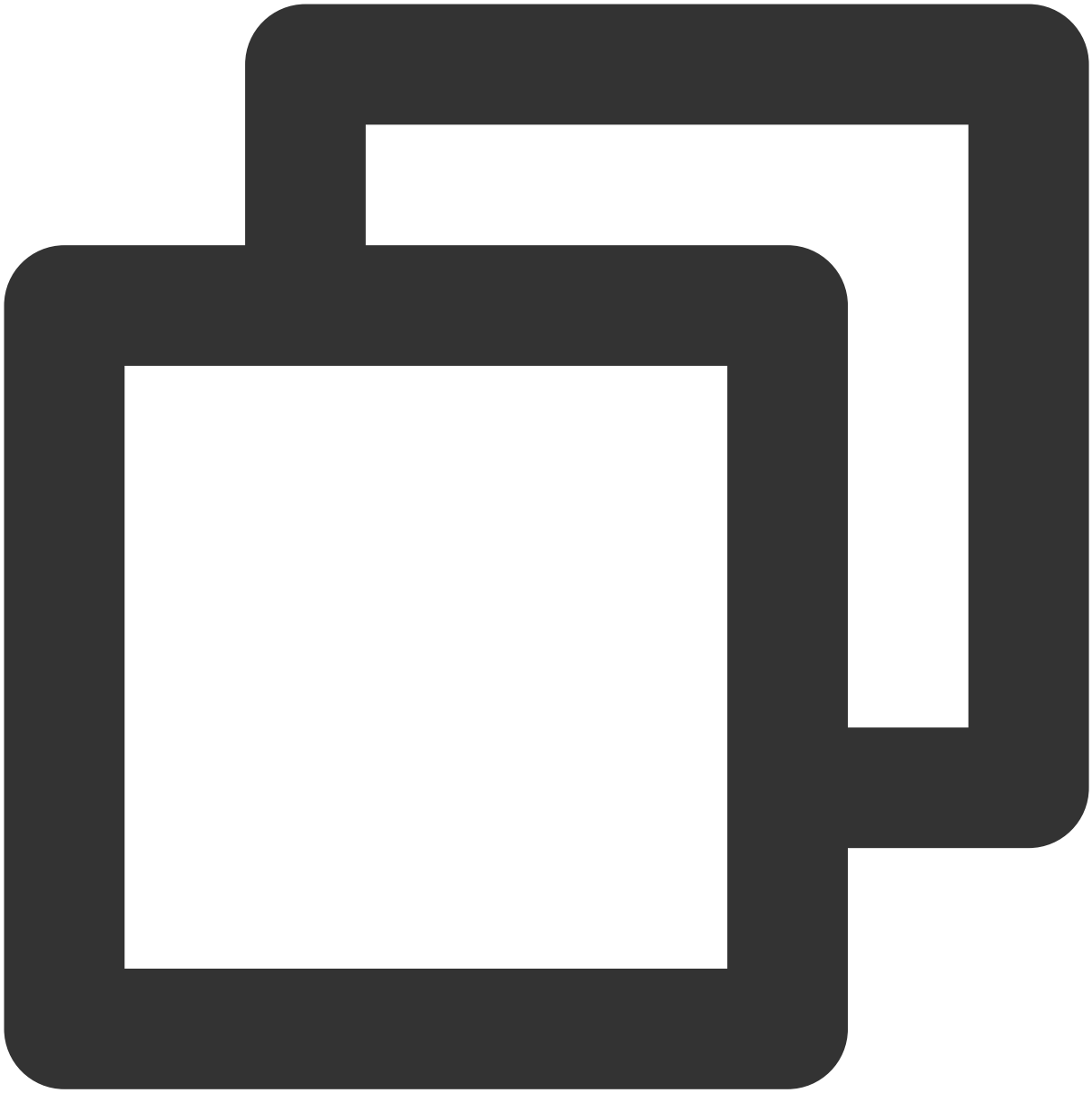

```
GET /docqueue?pageNumber=1&pageSize=2 HTTP/1.1
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
User-Agent: cos-python-sdk-v5.3.2
Host: examplebucket-1250000000.ci.ap-chongqing.myqcloud.com
Content-Type: application/xml
Authorization: Authorization
```

Response

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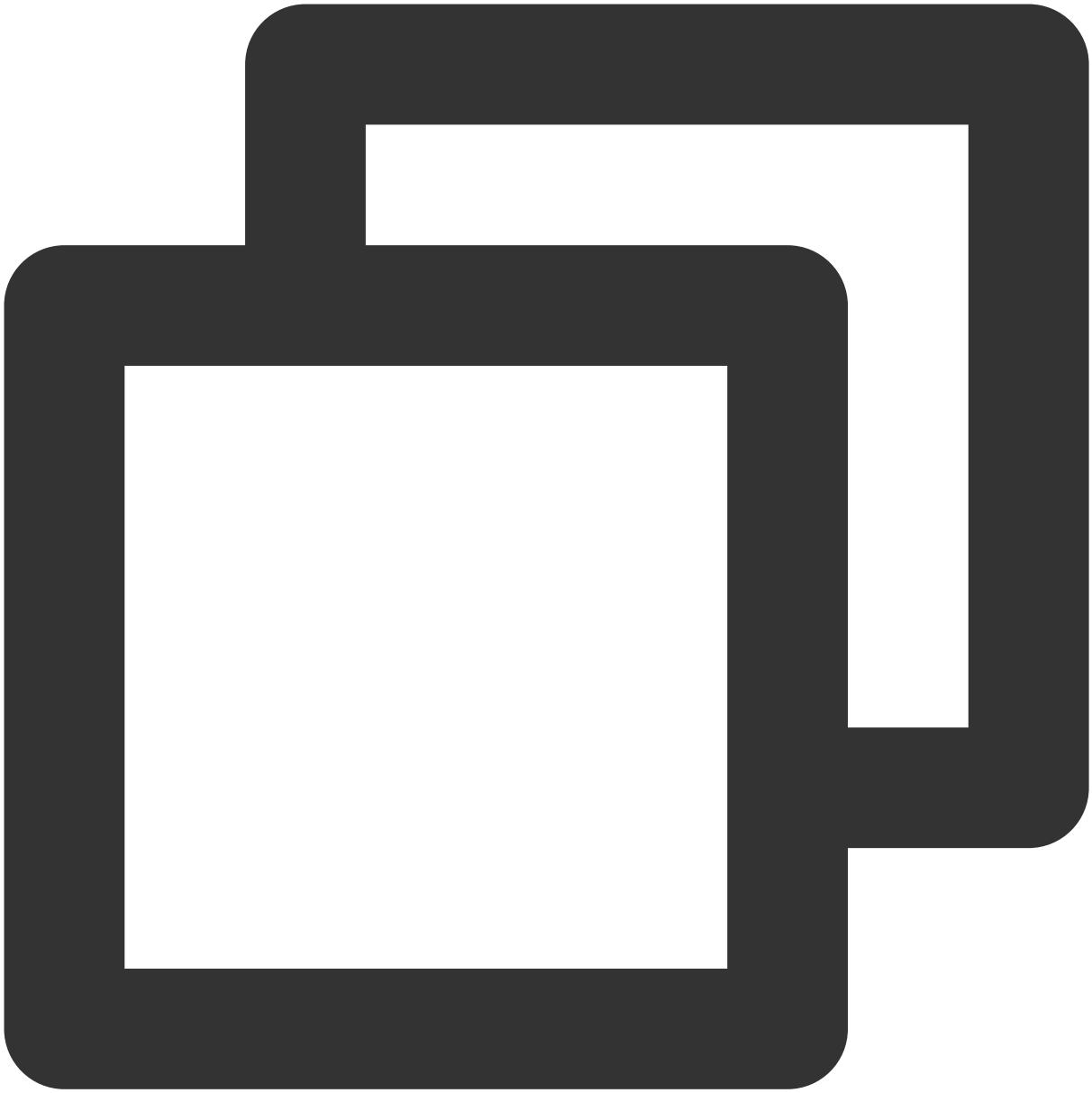

```
HTTP/1.1 200 OK
Date: Mon, 27 Jul 2020 07:29:28 GMT
Content-Type: application/xml
Content-Length: 677
Connection: keep-alive
Server: tencent-ci
x-ci-request-id: NWYxZTgyNTdfYzc2OTQzNjRfMzUx****

<?xml version="1.0" encoding="utf-8"?>
<Response>
        <TotalCount>1</TotalCount>
```

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```
        <RequestId>NWYxZTgyNTdfYzc2OTQzNjRfMzUx****</RequestId>
        <PageNumber>1</PageNumber>
        <PageSize>2</PageSize>
        <QueueList>
                <QueueId>p2505d57bdf4c4329804b58a6a5fb1572</QueueId>
                <Name>queue-doc-process-1</Name>
                <State>Active</State>
                <NotifyConfig>
                        <Url/>
                        <Event/>
                        <Type/>
                        <State>Off</State>
                </NotifyConfig>
                <MaxSize>10000</MaxSize>
                <MaxConcurrent>10</MaxConcurrent>
                <CreateTime>2020-07-24T22:42:27+0800</CreateTime>
                <UpdateTime>2020-07-24T22:42:27+0800</UpdateTime>
                <BucketId>examplebucket-1250000000.</BucketId>
                <Category>DocProcessing</Category>
        </QueueList>
</Response>
```

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Updating File Transcoding Queue

Last updated：2024-06-12 15:27:03

Feature Description

This API (`UpdateDocProcessQueue`) is used to update a file transcoding queue.

Request

Sample request

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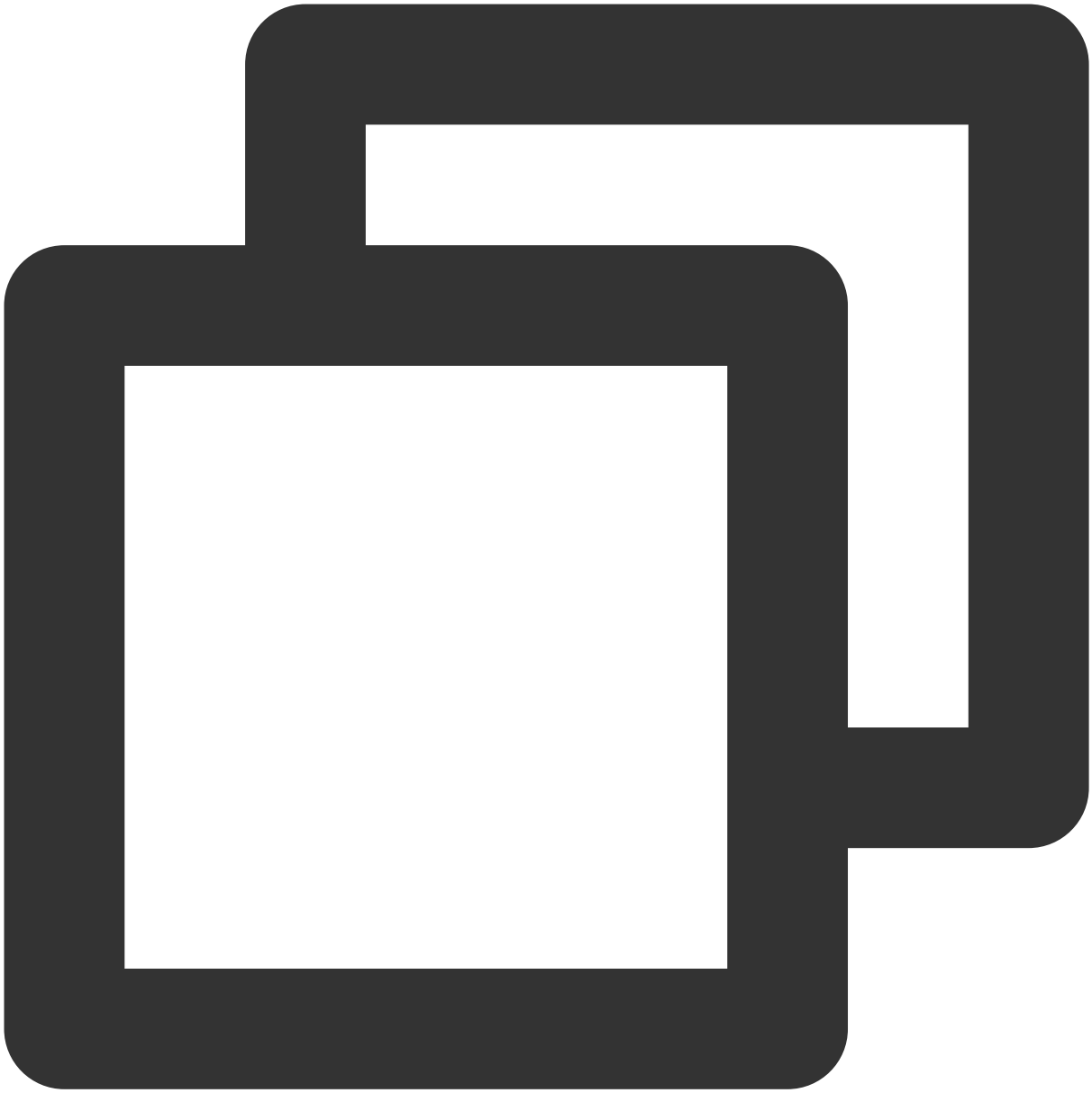

```
PUT /docqueue/p8eb46b8cc1a94bc09512d16c5c4f4d3a HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

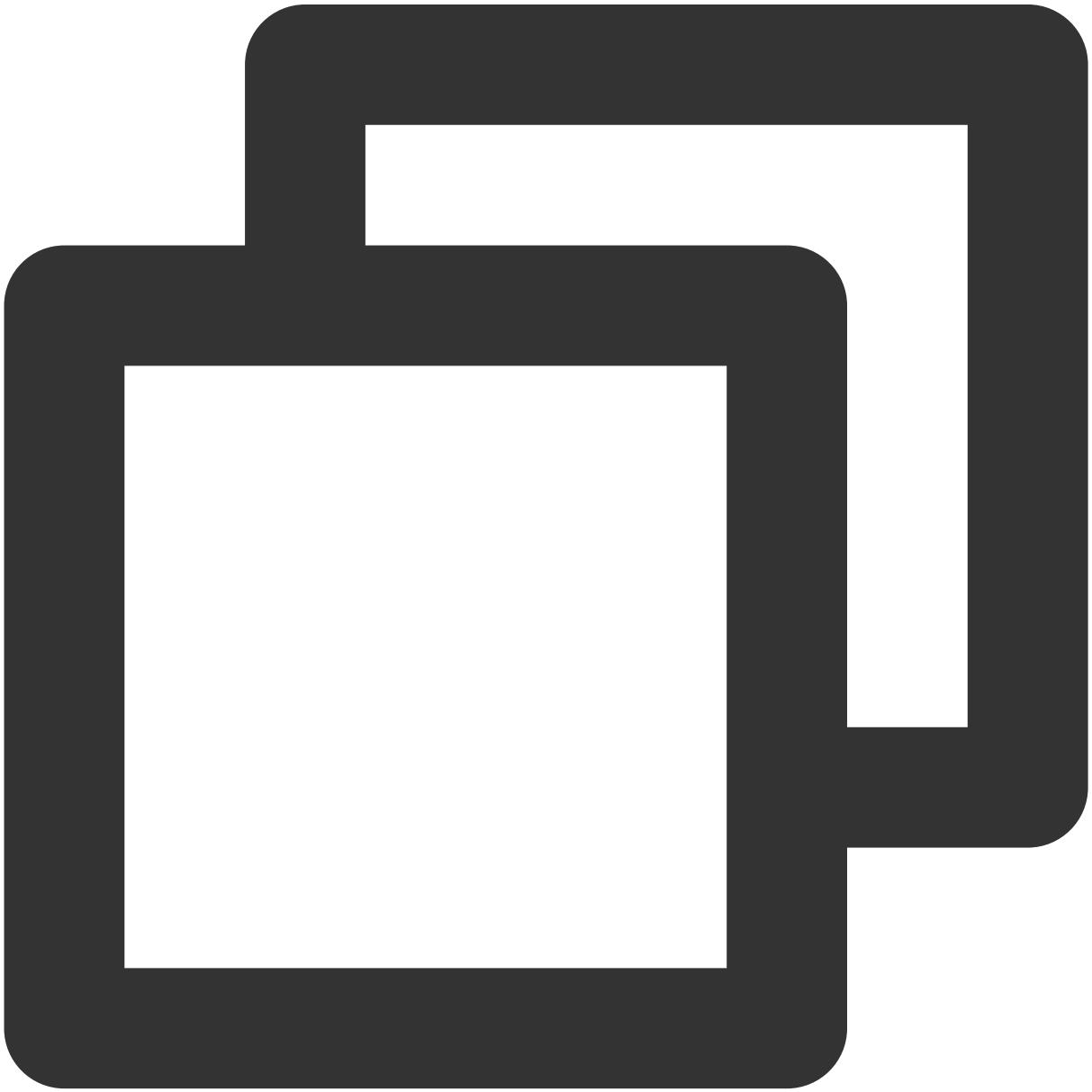
When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
```

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```
    <Name>Queue Name</Name>
    <QueueID></QueueID>
    <State></State>
    <NotifyConfig>
        <Type></Type>
        <Url></Url>
        <Event></Event>
    </NotifyConfig>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Name	Request	Queue name	String	Yes	Length limit: 100 characters
QueueID	Request	Queue ID	String	Yes	None
State	Request	Queue status	String	Yes	1. Active: Jobs in the queue will be scheduled and executed by the file preview service. 2. Paused: The queue is paused, and jobs in it will no longer be scheduled and executed. All jobs in the queue will remain in the `Submitted` status, while jobs being executed will continue without being affected.
NotifyConfig	Request	Notification channel	Container	Yes	Third-party callback URL

`NotifyConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Url	Request.NotifyConfig	Callback configuration	String	No	Length

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					limit: 100 characters
Type	Request.NotifyConfig	Callback type. General callback: Url	String	No	Length limit: 100 characters
Event	Request.NotifyConfig	Callback event: The file preview job is completed.	String	No	Length limit: 100 characters
State	Request.NotifyConfig	Callback switch: `Off` or `On`	String	No	Length limit: 100 characters

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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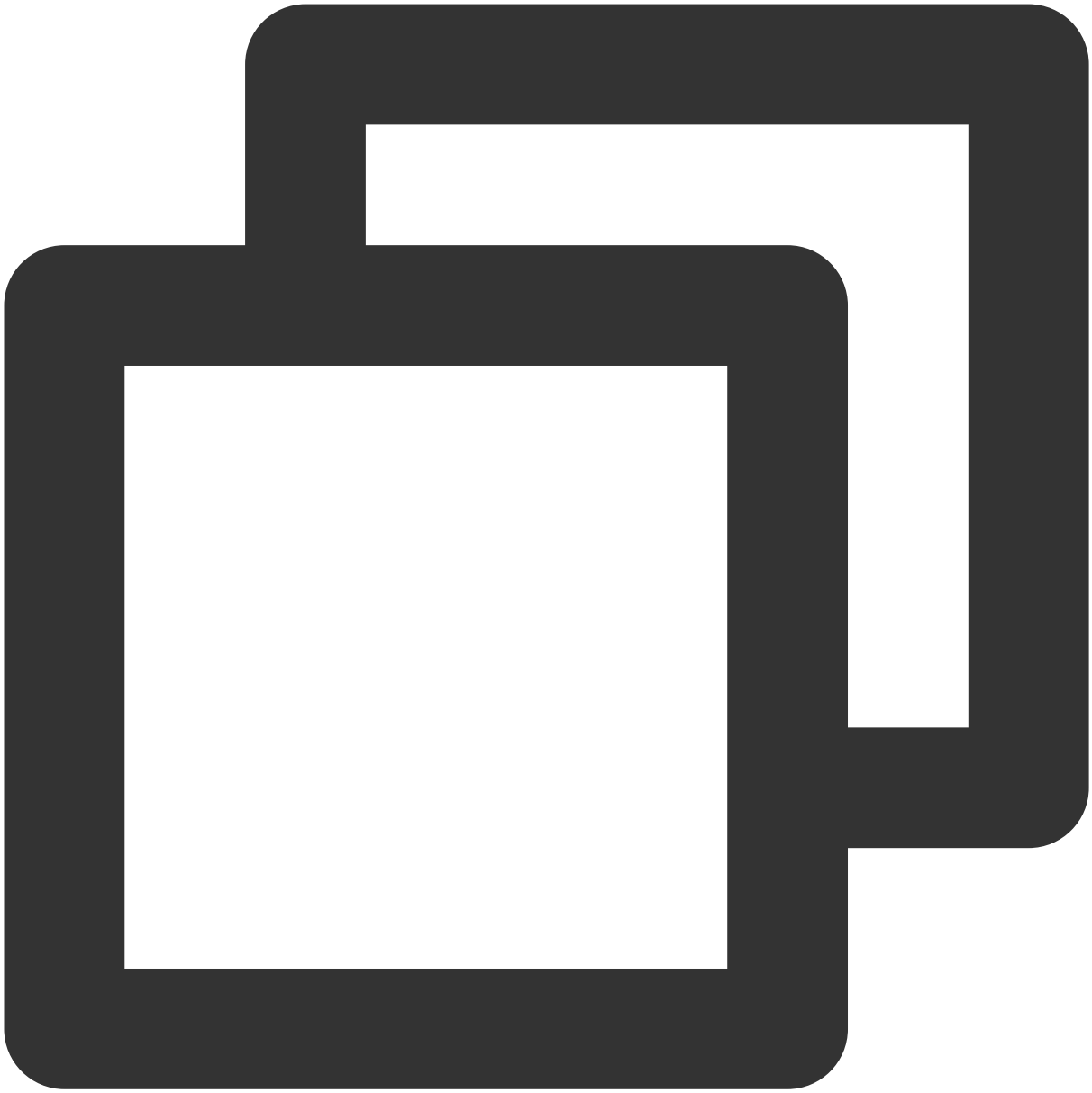

```
<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <Queue>
        <QueueId></QueueId>
        <Name></Name>
        <State>Active</State>
        <NotifyConfig>
            <Url>mts-topic-1</Url>
            <Type></Type>
            <Event></Event>
        </NotifyConfig>
```

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```
        <CreateTime></CreateTime>
        <UpdateTime></UpdateTime>
    </Queue>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
Queue	Response	Queue information. For more information, see `Response.QueueList` in DescribeDocProcessQueues.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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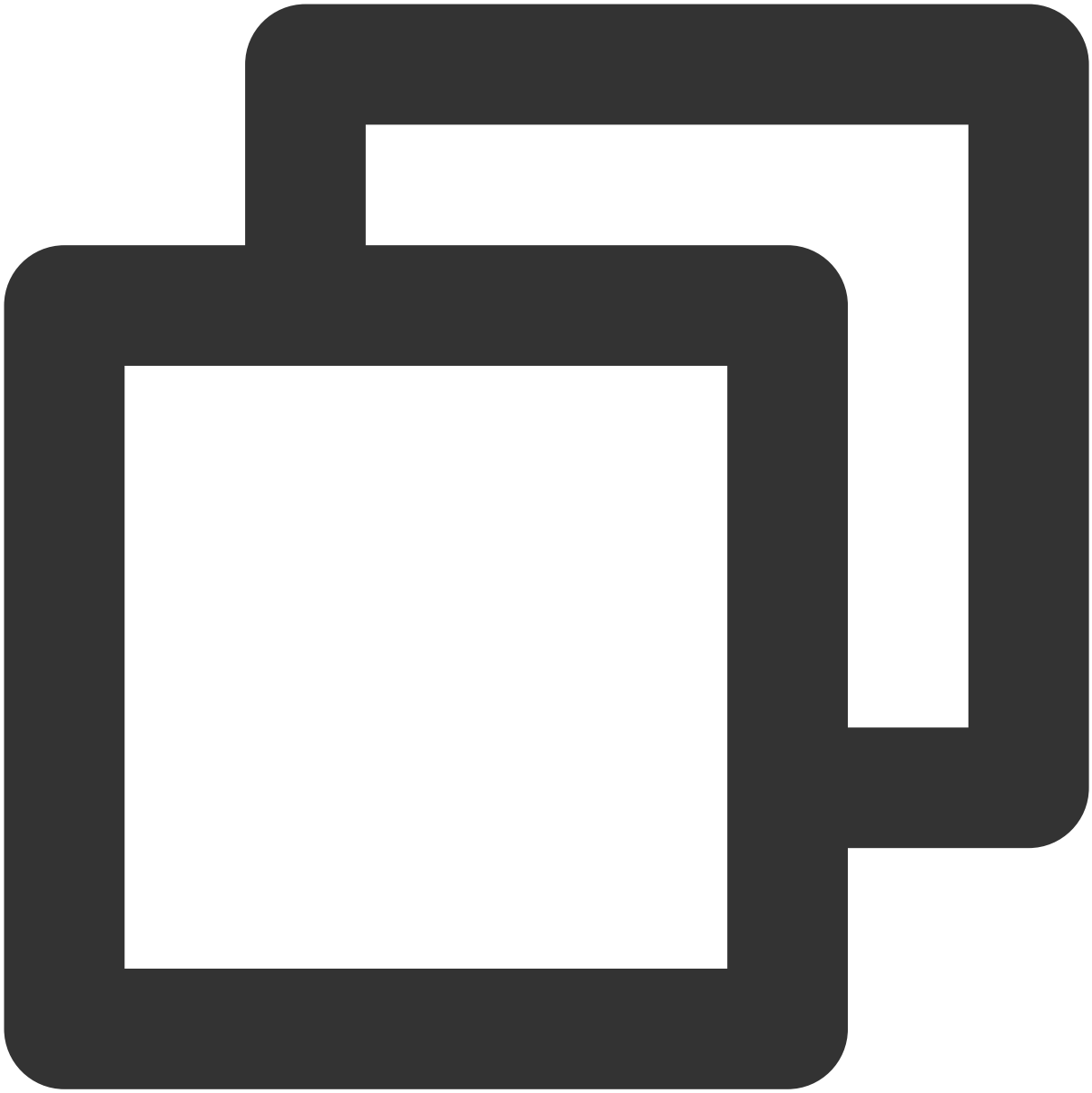

```
PUT /docqueue/p2505d57bdf4c4329804b58a6a5fb1572 HTTP/1.1
Connection: keep-alive
Accept-Encoding: gzip, deflate
Accept: */*
User-Agent: cos-python-sdk-v5.3.2
Host: examplebucket-1250000000.ci.ap-chongqing.myqcloud.com
Content-Type: application/xml
Content-Length: 279
Authorization: Authorization

<?xml version="1.0" encoding="UTF-8" ?>
```

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```
<Request>
    <QueueId>p2505d57bdf4c4329804b58a6a5fb1572</QueueId>
    <State>Active</State>
    <Name>markjrzhang4</Name>
    <NotifyConfig>
        <Url>http://google.com/</Url>
    <State>On</State>
        <Type>Url</Type>
        <Event>TransCodingFinish</Event>
    </NotifyConfig>
</Request>[!http]
```

Response

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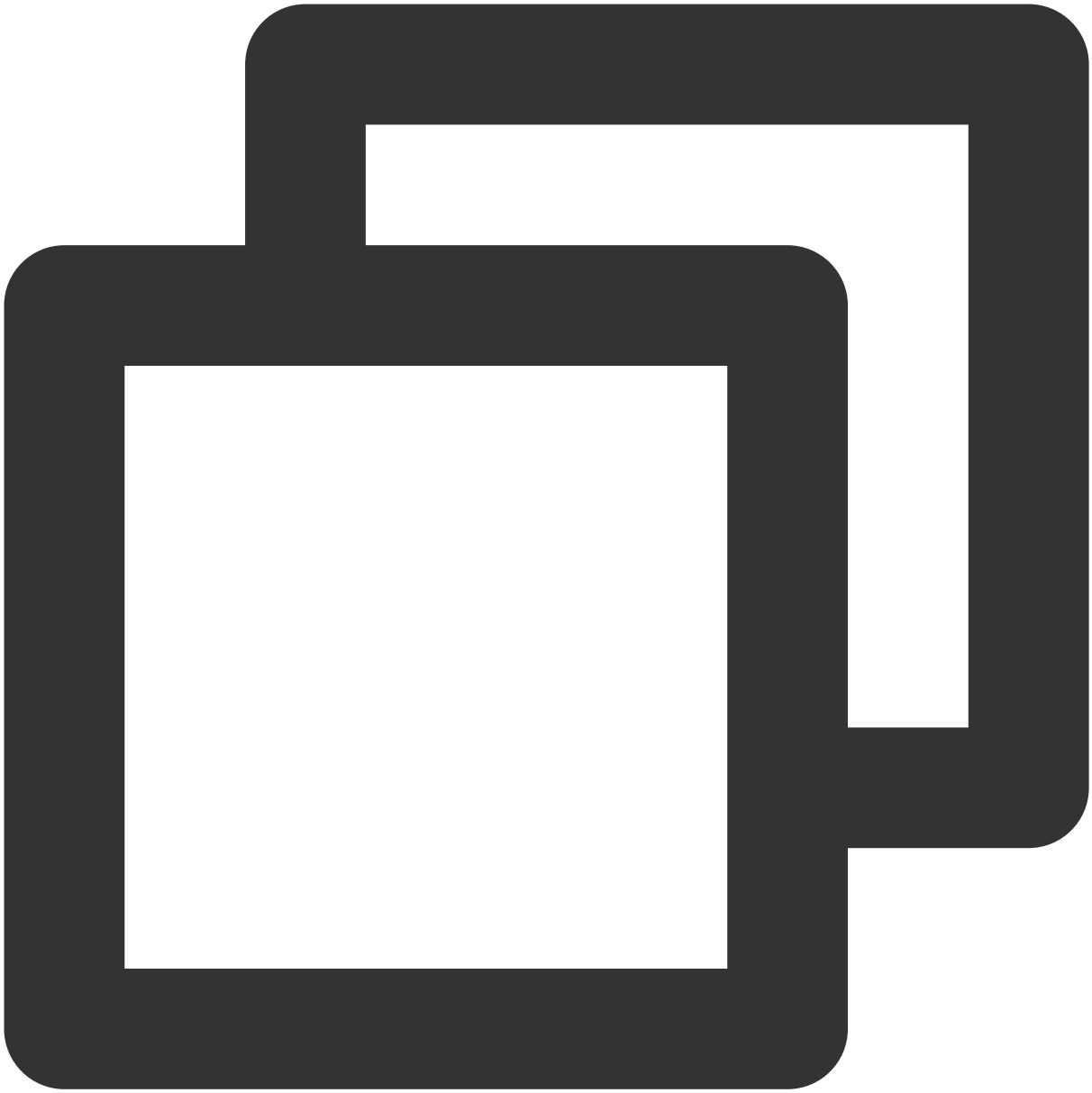

```
HTTP/1.1 200 OK
Date: Mon, 27 Jul 2020 08:22:41 GMT
Content-Type: application/xml
Content-Length: 641
Connection: keep-alive
Server: tencent-ci
x-ci-request-id: NWYxZThlZDBfYzc2OTQzNjRfMzUxYV8x****

<?xml version="1.0" encoding="utf-8"?>
<Response>
        <RequestId>NWYxZThlZDBfYzc2OTQzNjRfMzUxYV8x****</RequestId>
```

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```
        <Queue>
                <QueueId>p2505d57bdf4c4329804b58a6a5fb1572</QueueId>
                <Name>markjrzhang4</Name>
                <State>Active</State>
                <NotifyConfig>
                        <Url>http://example.com/</Url>
                        <Event>TransCodingFinish</Event>
                        <Type>Url</Type>
                        <State>On</State>
                </NotifyConfig>
                <MaxSize>10000</MaxSize>
                <MaxConcurrent>10</MaxConcurrent>
                <CreateTime>2020-07-24T22:42:27+0800</CreateTime>
                <UpdateTime>2020-07-27T16:22:40+0800</UpdateTime>
                <BucketId>test007-1251704708</BucketId>
                <Category>DocProcessing</Category>
        </Queue>
</Response>
```

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Supported Features and Effects

Last updated：2024-06-12 15:27:03

The features and effects supported by the file-to-image conversion service are as follows:

Type	File Extension	Supported Features and Effects
Presentation	PPT, PPTX, PPTM, PPSX, PPSM, PPS, POTX, POTM, DPT, DPS	Slide background, object border/fill, object shadow/reflection, text (horizontal/vertical text boxes, placeholders, shapes), images, links, WordArt, shapes, tables, charts, formulas, symbols, mind maps, flowcharts.
Text	DOC, DOT, WPS, WPT, DOCX, DOTX, DOCM, DOTM	Word attributes, paragraph attributes, images, text tables, links, shapes, code snippets, dates, watermarks, comments, headers, footers.
Spreadsheet	XLS, XLT, ET, XLSX, XLTX, XLSM, XLTM	Word attributes, paragraph attributes, AutoShape, WordArt, formulas, images, flowcharts, mind maps.
PDF	PDF	Background, text (font, font size, color, bold, italic), brush, highlight, underline, strikethrough.

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File to HTML
Getting Started

Last updated：2024-06-12 15:27:04

Feature Description

The file-to-HTML conversion feature allows you to generate HTML pages for preview from multiple types of files. It enables easy online file preview on PC, app, and other terminals. It is widely suitable for diverse business scenarios, such as online education, enterprise OA, online knowledge base, and online file preview.

Note:

COS encapsulates the preview JS-SDK, so you can connect to the HTML preview service with only one URL.

If you want to use it in WeChat mini programs, see Data Processing.

To connect to a CDN domain name, you need to enable **Advanced Cache Expiration Settings** in CDN as instructed in Node Caching Rule Configuration (Legacy).

Request

Sample request

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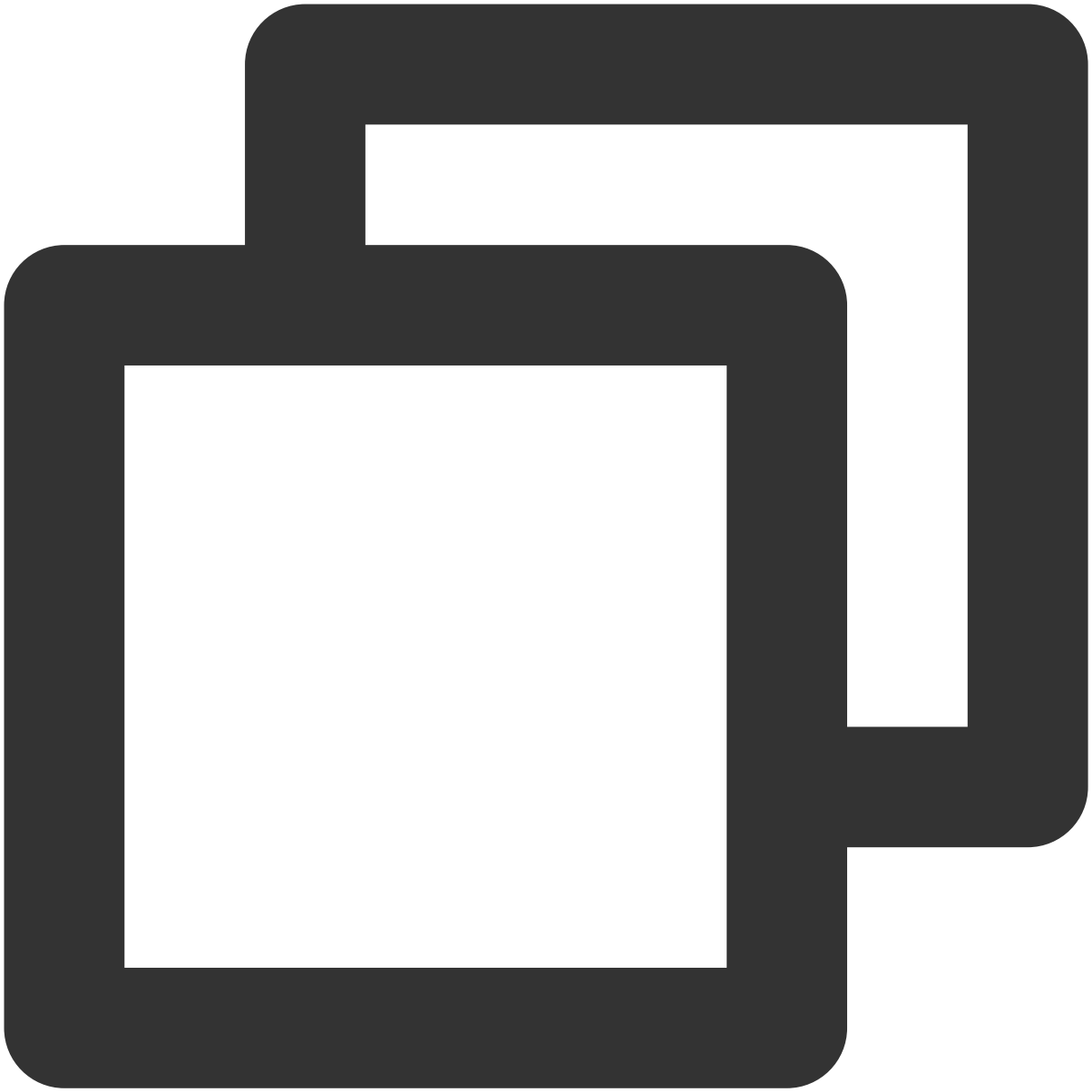

```
GET /<ObjectKey>?ci-process=doc-preview&dstType=html HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
```

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request parameters

Name	Description	Type	Required

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ObjectKey	Object name, such as `folder/document.pdf` .	String	Yes
ci-process	COS' processing capability, which is fixed at `doc-preview` for HTML preview.	String	Yes
dstType	Output target file type, which is fixed at `html` for HTML preview.	String	Yes
srcType	Source file type as listed below.	String	No
sign	Object download signature, which must be URL-encoded. If the previewed object is privately readable, the signature needs to be passed in. For more information, see Request Signature.	String	No
copyable	Whether the file content is copyable. Valid values: `1` (yes), `0` (no).	String	No
htmlParams	Custom configuration parameters in JSON structure, which must be URL-safe Base64-encoded as described in FAQs. Default configuration: { commonOptions: { isShowTopArea: true, isShowHeader: true } }. For supported configurations, see Custom Configuration Overview.	String	No
htmlwaterword	Watermark text, which must be URL-safe Base64-encoded as described in FAQs and is empty by default.	String	No
htmlfillstyle	Watermark RGBA (color and transparency), which must be URL-safe Base64-encoded as described in FAQs and is `rgba(192,192,192,0.6)` by default.	String	No
htmlfront	Watermark text style, which must be URL-safe Base64-encoded as described in FAQs and is `bold 20px Serif` by default.	String	No
htmlrotate	Rotation angle of the watermark text in degrees. Value range: 0–360. Default value: `315` .	String	No
htmlhorizontal	Horizontal spacing of the watermark text in px. Default value: `50` .	String	No
htmlvertical	Vertical spacing of the watermark text in px. Default value: `100` .	String	No

Note:

Currently supported input file types include:

Presentation files: PPTX, PPT, POT, POTX, PPS, PPSX, DPS, DPT, PPTM, POTM, PPSM.

Text files: DOC, DOT, WPS, WPT, DOCX, DOTX, DOCM, DOTM.

Spreadsheet files: XLS, XLT, ET, ETT, XLSX, XLTX, CSV, XLSB, XLSM, XLTM, ETS.

Other files: PDF, LRC, C, CPP, H, ASM, S, JAVA, ASP, BAT, BAS, PRG, CMD, RTF, TXT, LOG, XML, HTM, HTML.

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The input file size cannot exceed 200 MB.

The number of pages in the input file cannot exceed 5,000.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body of this API request is the HTML preview content.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Sample 1: Simple preview

To preview the PPT file with the `test.pptx` ObjectKey in the `examples-1258125638` bucket online, the final URL is as follows:

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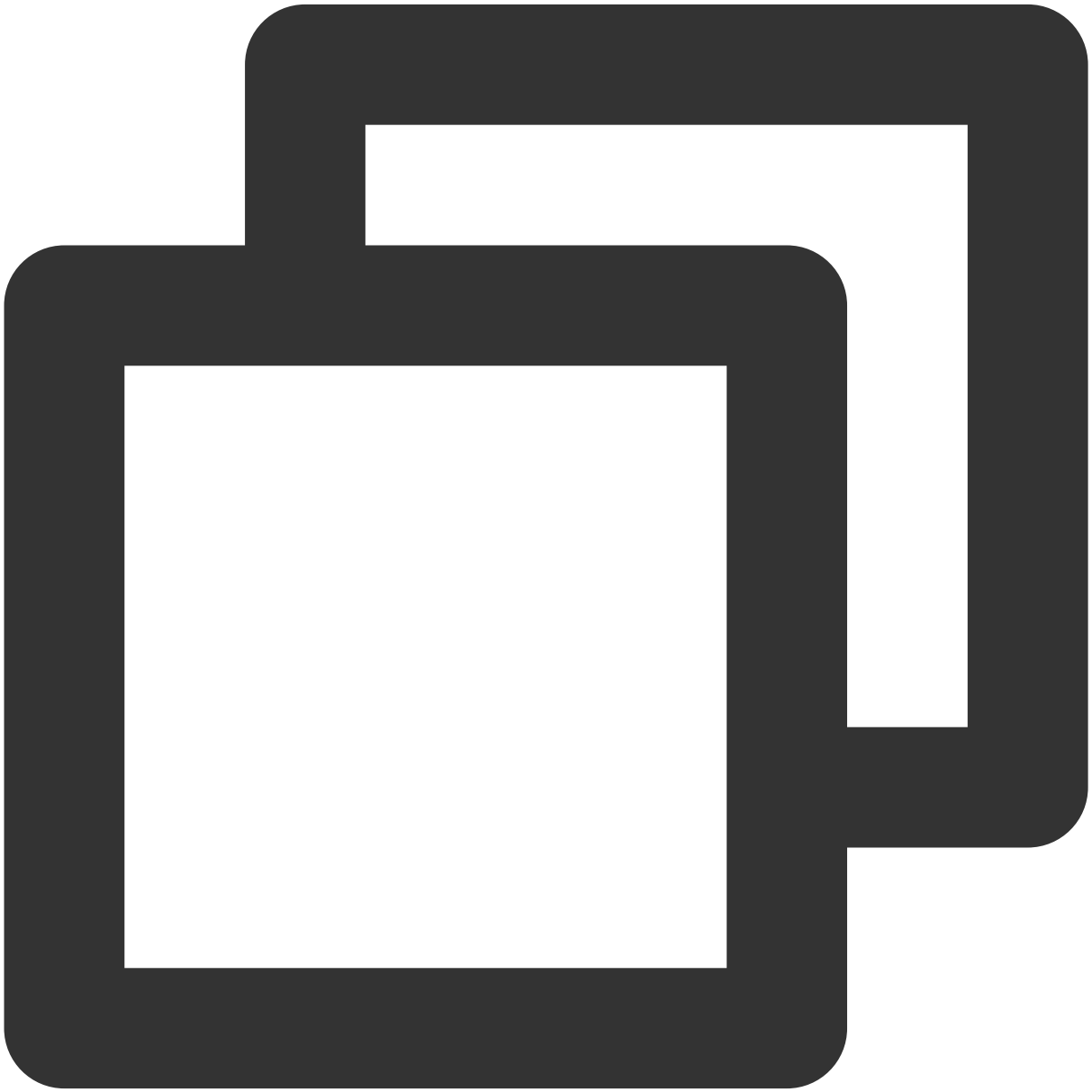

```
https://examples-1258125638.cos.ap-guangzhou.myqcloud.com/test.pptx?ci-process=doc-
```

Note:

You can also implement more custom features through JS-SDK. For more information, see Custom Configuration Overview.

Open the link directly in a browser to view the generated preview page. For slides, you can also perform full-screen slideshow, which supports **animation**, **trigger**, and other effects and provides **virtual laser pointer**, **speaker mode**, and other features.

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Sample 2: Watermark + preview with custom configurations

Preview the PPT file with the `test.pptx` ObjectKey in the `examples-1258125638` bucket online.

1. Make it **uncopyable** by setting `copyable` to `0` .

2. Set the **test** watermark, which is URL-safe Based64-encoded into `htmlwaterword=dGVzdAog` .

3. Set **custom configuration parameters**. `htmlParams` is {"mode":"normal","commonOptions": {"isShowHeader":false,"isShowTopArea":true},"pptOptions":{"isSlidesStatusPlay": true}}, which is URL-safe Base64-encoded into `htmlParams=eyJtb2RlIjoibm9ybWFsIiwiY29tbW9uT3B0aW9ucyI6eyJpc1Nob3dIZWFkZXIiOmZhbHNlLCJpc1Nob3dUb3BBcmVhIjp0cnVlfSwicHB0T3B0aW9ucyI6eyJpc1NsaWRlc1N0YXR1c1BsYXkiOiB0cnVlfX0=` .

The final URL is as follows:

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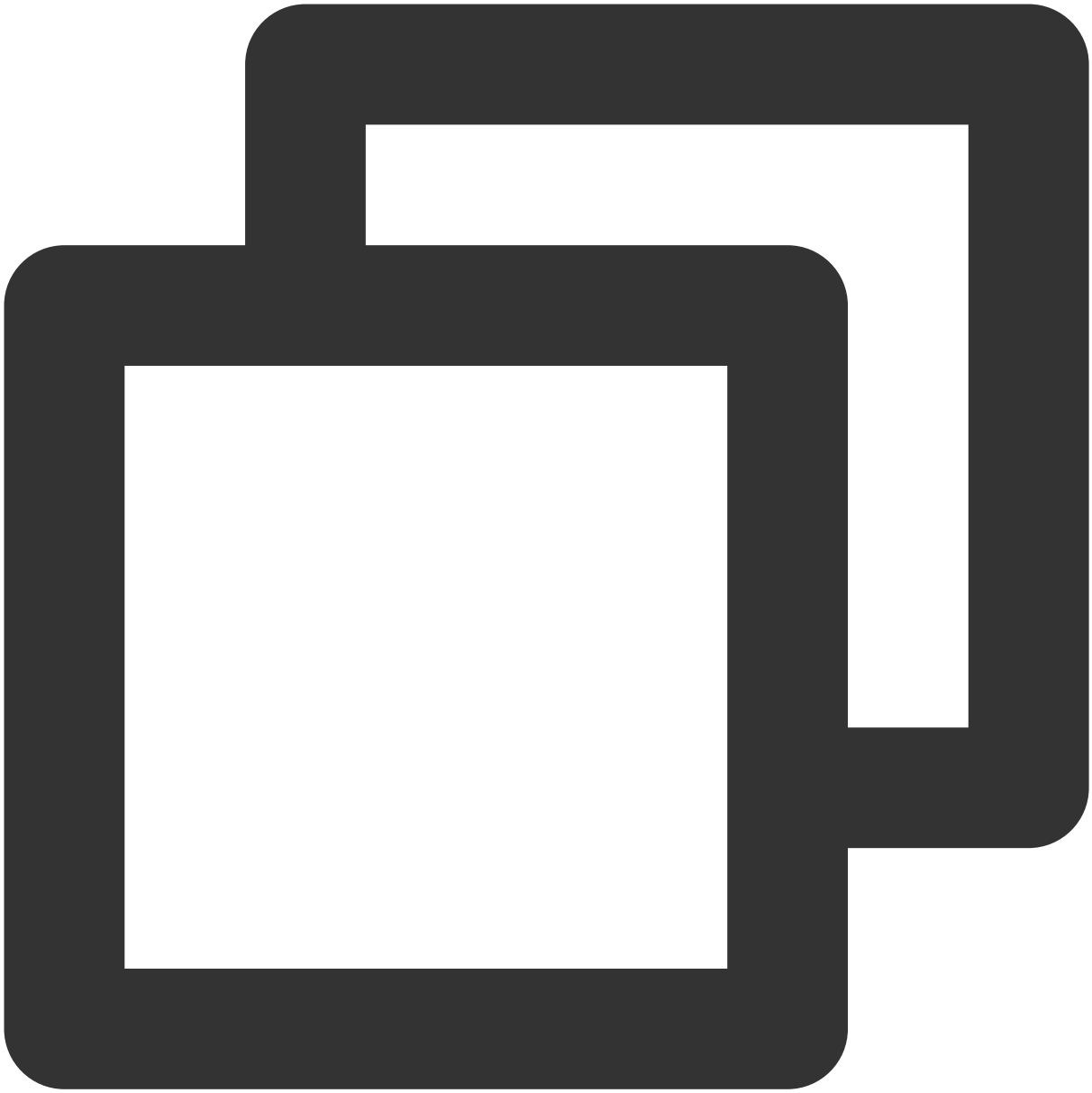

```
https://examples-1258125638.cos.ap-guangzhou.myqcloud.com/test.pptx?ci-process=doc-
```

Open the link directly in a browser to view the generated preview page. For slides, you can also perform full-screen slideshow, which supports **animation**, **trigger**, and other effects and provides **virtual laser pointer**, **speaker mode**, and other features.

The preview link can also be embedded in a business webpage as an iframe as follows:

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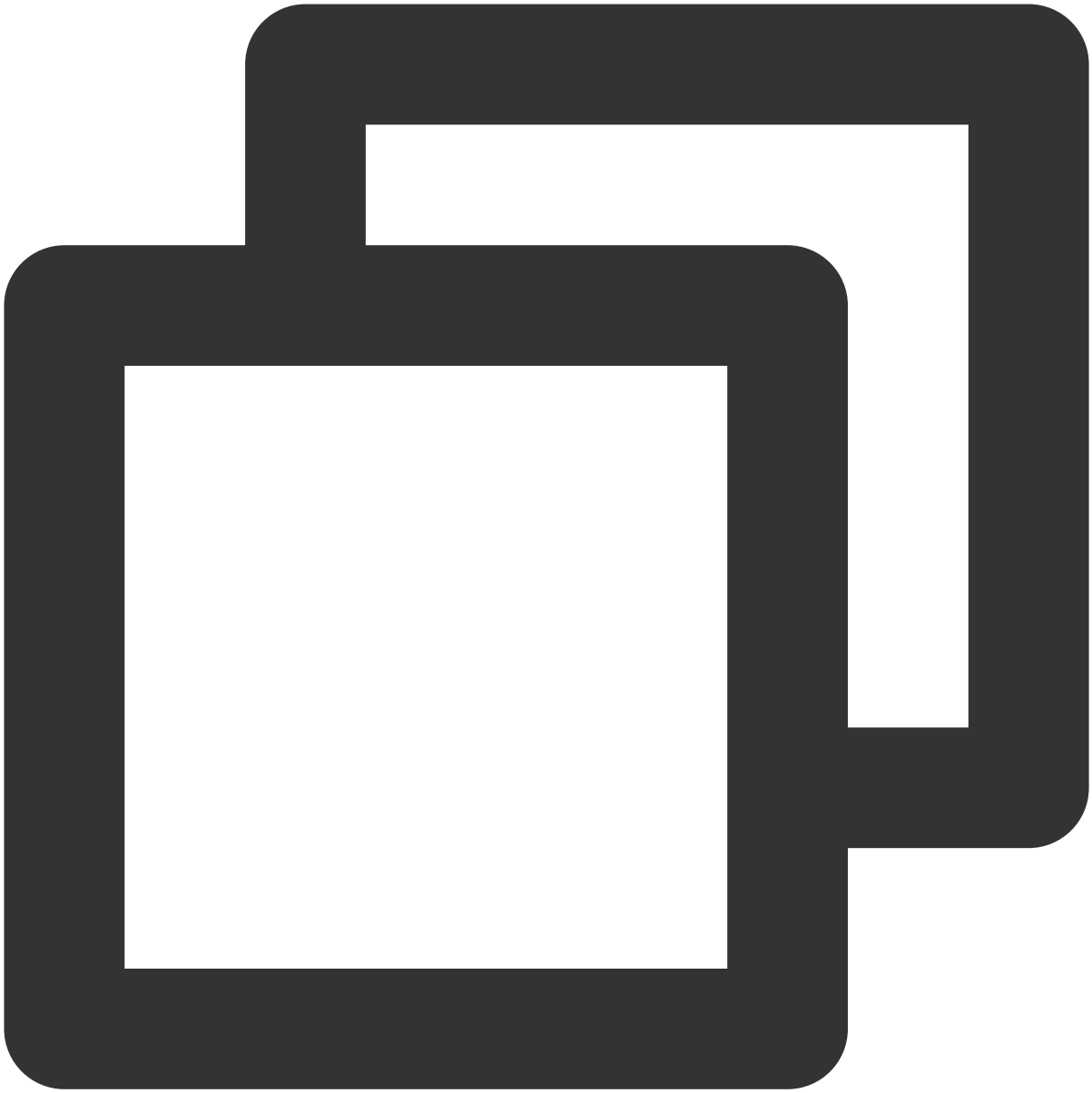

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <meta name="viewport"
        content="width=device-width, initial-scale=1.0, maximum-scale=1.0, minimum-
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
    <meta http-equiv="Content-Security-Policy" content="upgrade-insecure-requests">
    <meta name="keywords" content="COS, file preview">
```

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```
    <meta name="description" content="">
    <title>Tencent Cloud - COS - file preview</title>
    <style>
        html,
        body {
            padding: 0;
            margin: 0;
            height: 100%;
            touch-action: manipulation;
        }
    </style>
</head>
<body>
    <iframe src="https://examples-1258125638.cos.ap-guangzhou.myqcloud.com/test.ppt
</body>
</html>
```

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Custom Configuration Overview

Last updated：2024-06-12 15:27:03

Feature Description

By using the JS-SDK, you can customize capabilities such as UI, page status, and event listener to deliver a better webpage experience.

Architecture diagram

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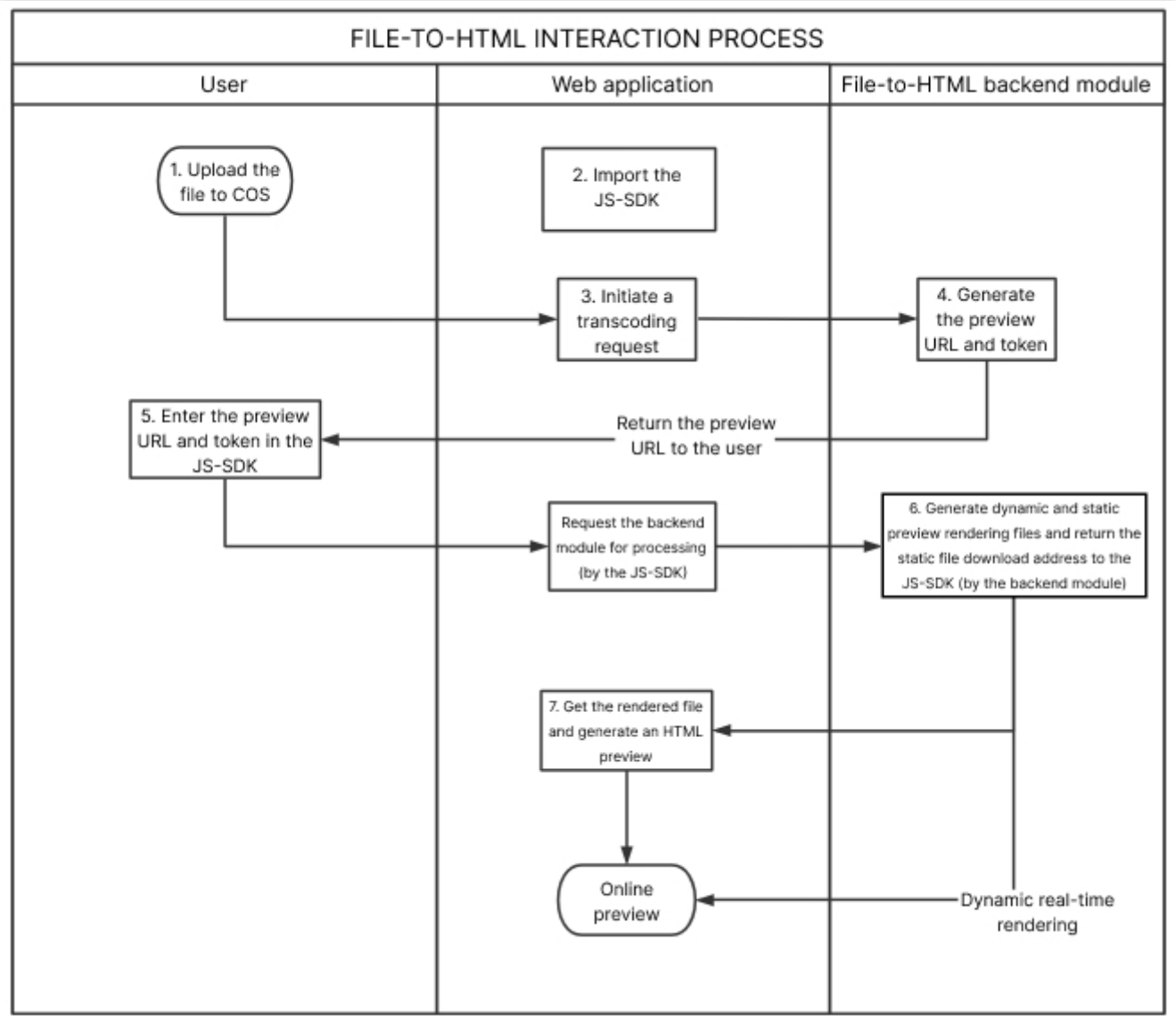

Operating Environment

Platform	Supported Browsers
iOS	Safari, QQ built-in browser, QQ Mini Program, WeChat built-in browser, and WeChat Mini Program
Android	QQ built-in browser, QQ Mini Program, WeChat built-in browser, and WeChat Mini Program
Windows	Chrome, QQ Browser (non-compatibility mode), Edge, Firefox, and Internet Explorer 11
macOS	Chrome, Safari, QQ Browser, Edge, and Firefox

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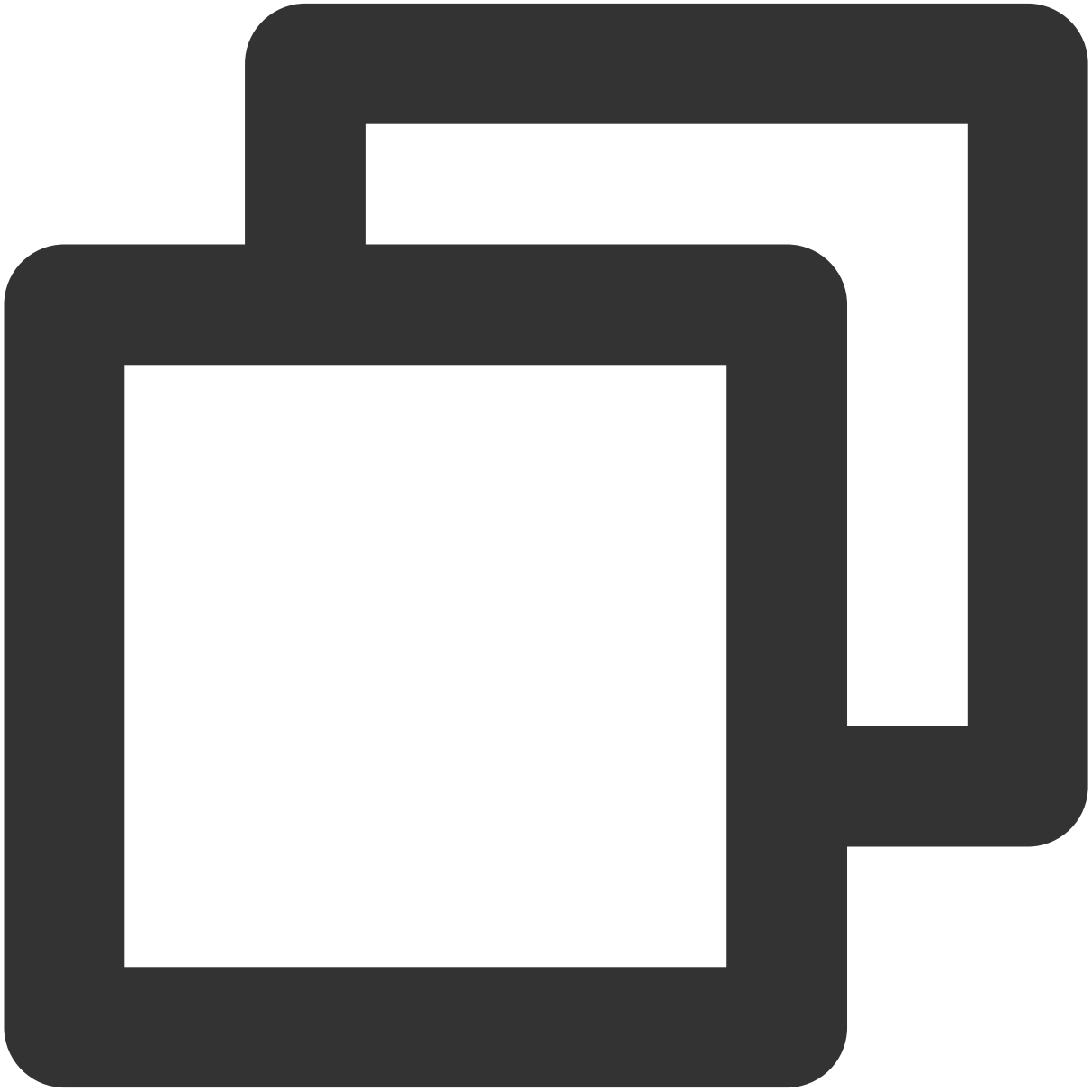
Instructions

1. Download

Download the latest version of the JS-SDK package. For earlier versions, see Release Notes.

2. Import the JS-SDK

On the page that needs to call the JS-SDK, import it as follows. In the sample code, `${version}` indicates the version number and should be replaced with the actual version number of your downloaded package.



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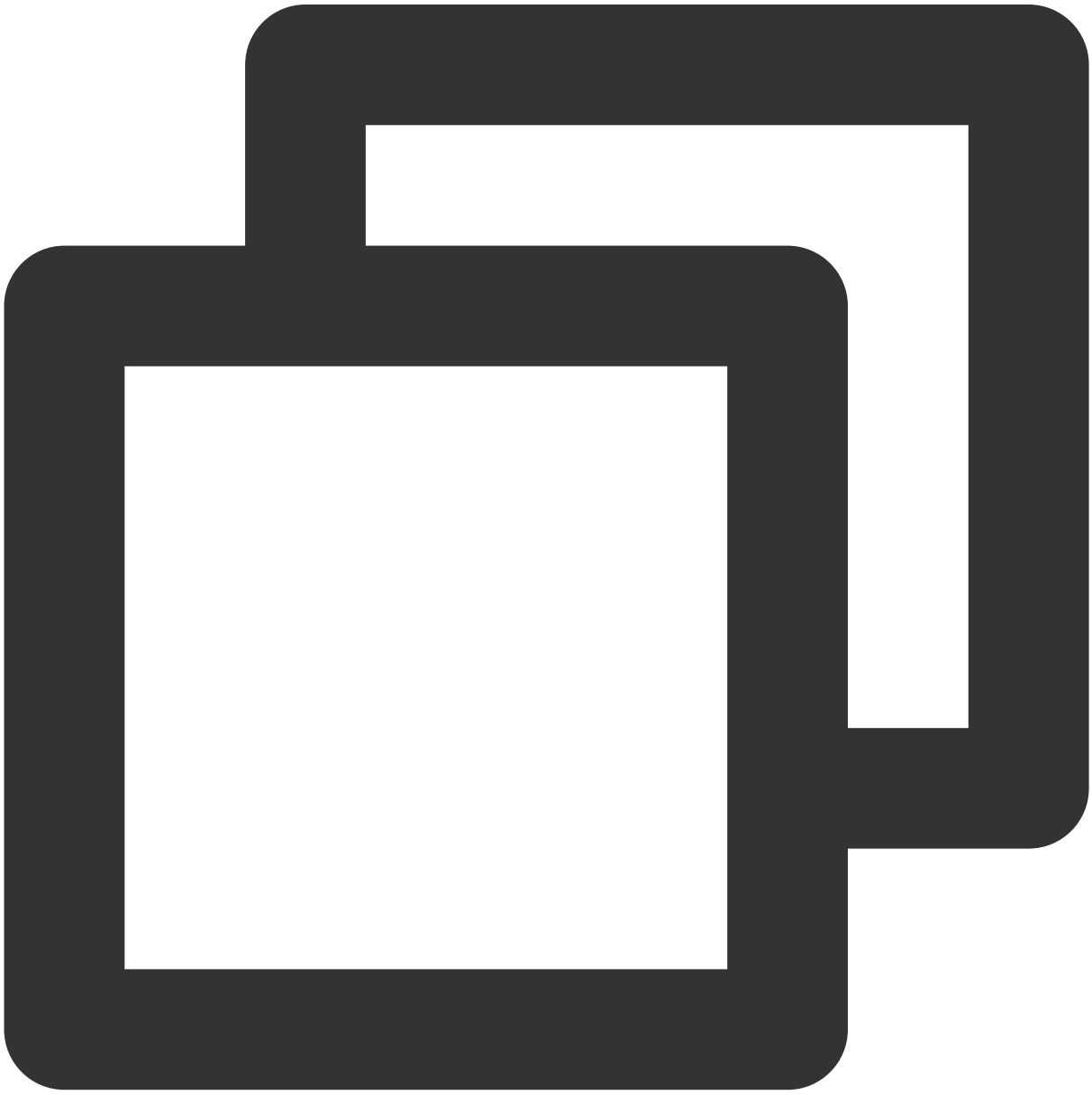
```
<script src="sdk-${version}.js"></script>
```

3. Get the online file preview URL

Option 1. Use the JS-SDK (on v0.1.1 or later) to get

Use the JS-SDK (on v0.1.1 or later) to get the online file preview URL as follows:



```
var url = await COSDocPreviewSDK.getPreviewUrl( {
      objectUrl: 'https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/tes
```

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```
        credentials: {      // If the preview file is private, the request needs to c
            secretId: '',
            secretKey: '',
            authorization: 'q-sign-algorithmxxxxxxxxxxxxxxx',
        },
        copyable: 0,  // Whether the file content can be copied
        htmlwaterword: ''  // Watermark content
    })
    console.log(url)
```

The configuration items are as described below:

Configuration Item	Description	Required
objectUrl	The URL of the object that needs to be previewed, such as `https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/test.pptx` .	Yes
credentials	If the object to be previewed is private, you need to pass in `credentials` as the access credential. You can pass in the calculated request signature (`authorization`) or your `secretId` and `secretKey` (not recommended as placing a permanent key on the frontend has security risks).	No
credentials.authorization	Object download signature. For more information, see Request Signature.	No
credentials.secretId	Your `secretId` , which can be obtained on the Manage API Key page in the CAM console.	No
credentials.secretKey	Your `secretKey` , which can be obtained on the Manage API Key page in the CAM console.	No
copyable	Whether the file content is copyable. Valid values: `1` (yes), `0` (no).	No
htmlwaterword	Watermark text, which must be URL-safe Base64-encoded as described in FAQs and is empty by default.	No
htmlfillstyle	Watermark RGBA (color and transparency), which must be URL-safe Base64-encoded as described in FAQs and is `rgba(192,192,192,0.6)` by default.	No
htmlfront	Watermark text style, which must be URL-safe Base64-encoded as described in FAQs and is `bold 20px Serif` by default.	No
htmlrotate	Rotation angle of the watermark text in degrees. Value range: 0–360. Default value: `315` .	No

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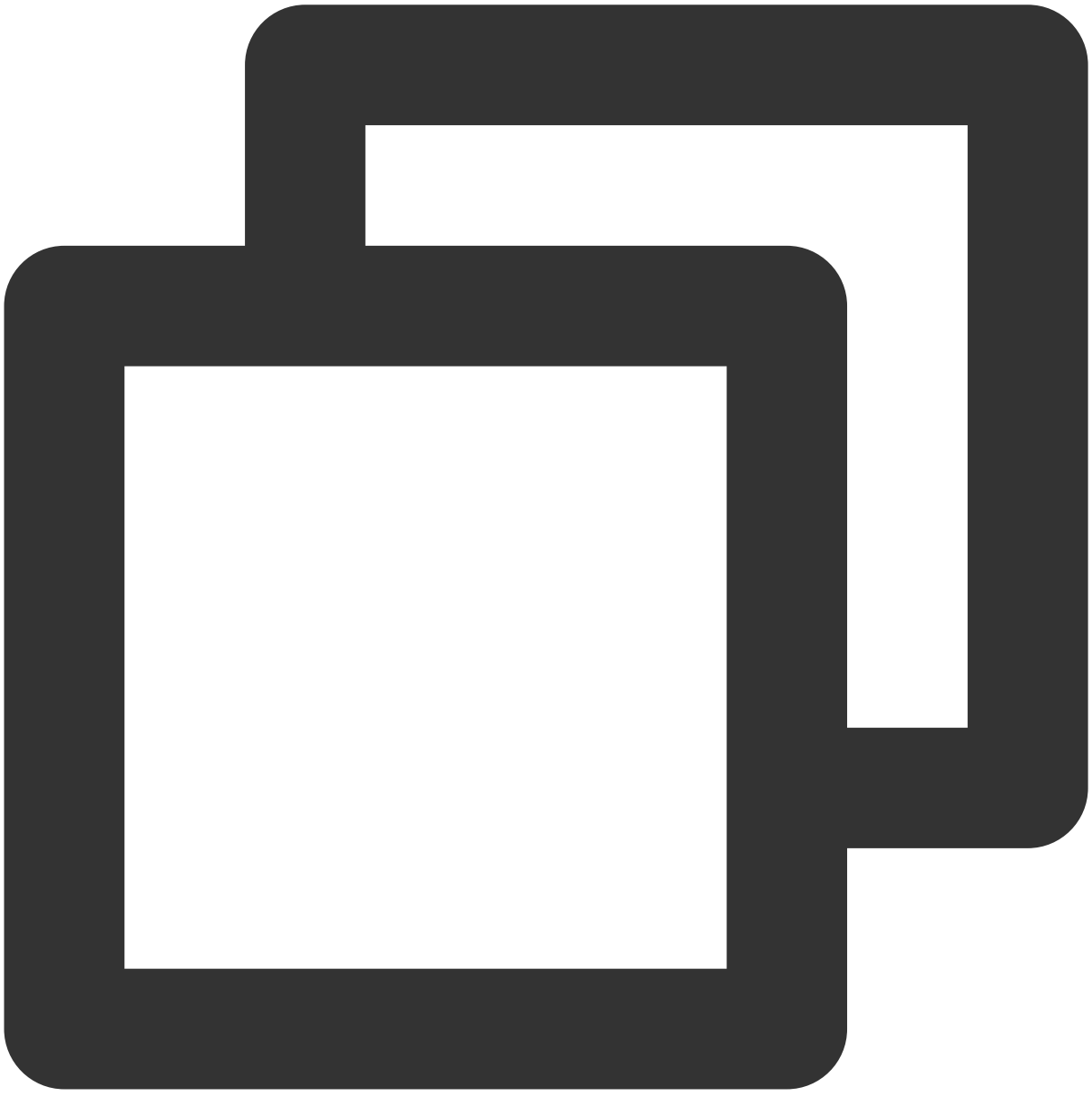
htmlhorizontal	Horizontal spacing of the watermark text in px. Default value: `50` .	No
htmlvertical	Vertical spacing of the watermark text in px. Default value: `100` .	No

Option 2. Directly request to get

Sample request



```
GET /<ObjectKey>?ci-process=doc-preview&dstType=html&weboffice_url=1&sign=AuthStrin
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
```

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```
Date: GMT Date
```

Request parameters

Parameter	Description	Required
ci-process	Preview parameter, which is fixed at `doc-preview`.	Yes
dstType	Preview type. To generate HTML files for preview, enter `html`.	Yes
weboffice_url	Whether to get the preview URL. Valid values: `1` (return the preview URL and token information); `2` (return the token information only). If this parameter is not specified, the file will be directly previewed.	No
tokenuid	Whether to get the token. A token will be generated and returned along with its validity period based on the information passed in such as `tokenuid` and file information. If this parameter is not specified, the token information won't be returned.	No
sign	Object download signature, which must be URL-encoded. If the previewed object is privately readable, the signature needs to be passed in. For more information, see Request Signature.	No
copyable	Whether the file content is copyable. Valid values: `1` (yes), `0` (no).	No
htmlwaterword	Watermark text, which must be URL-safe Base64-encoded as described in FAQs and is empty by default.	No
htmlfillstyle	Watermark RGBA (color and transparency), which must be URL-safe Base64-encoded as described in FAQs and is `rgba(192,192,192,0.6)` by default.	No
htmlfront	Watermark text style, which must be URL-safe Base64-encoded as described in FAQs and is `bold 20px Serif` by default.	No
htmlrotate	Rotation angle of the watermark text in degrees. Value range: 0–360. Default value: `315`.	No
htmlhorizontal	Horizontal spacing of the watermark text in px. Default value: `50`.	No
htmlvertical	Vertical spacing of the watermark text in px. Default value: `100`.	No

Sample response

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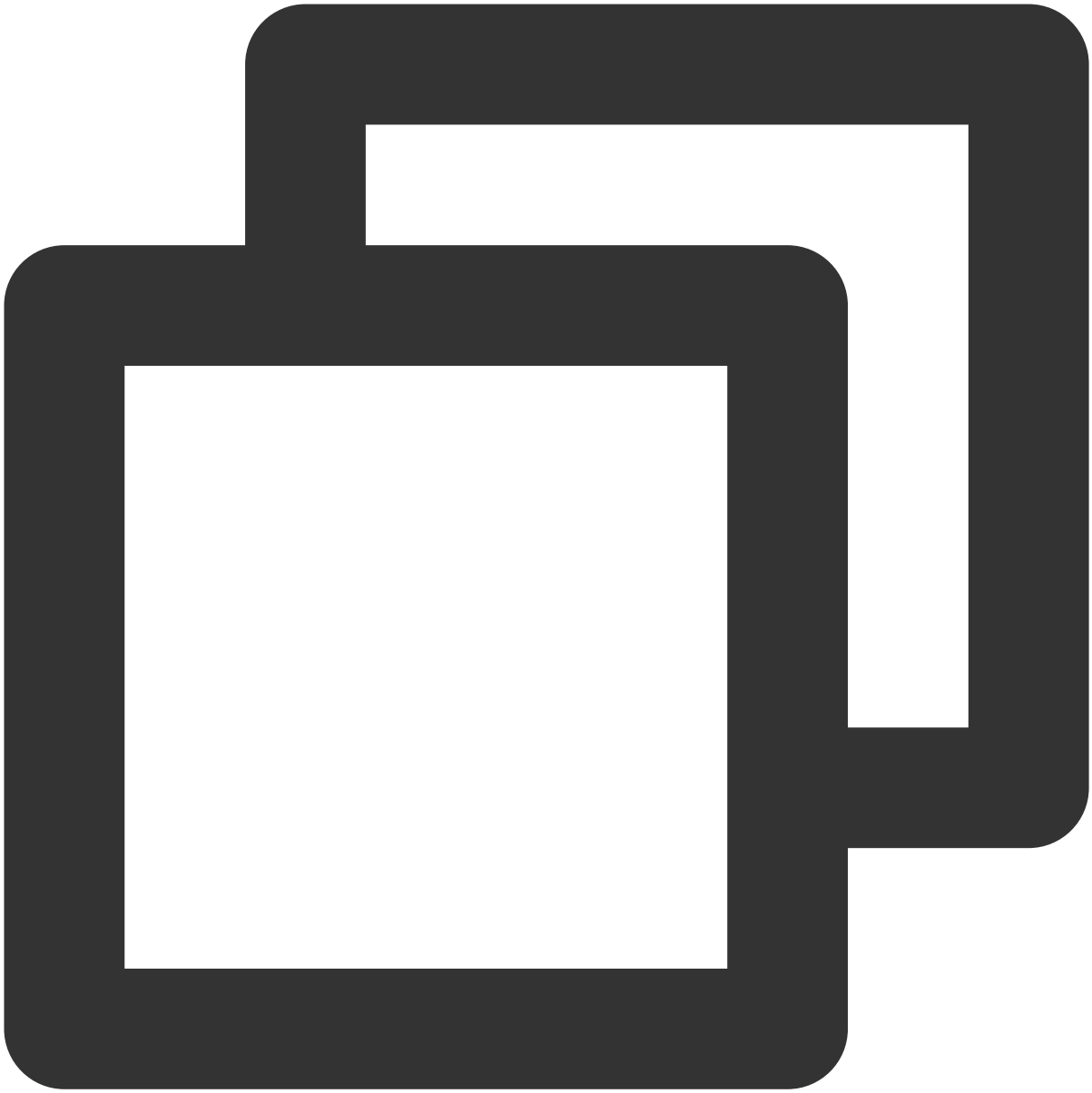

```
HTTP/1.1 200 OK
Content-Type: text/html
Content-Length: 478
Date: Thu, 25 Feb 2021 07:44:37 GMT
Status: 200 OK
x-cos-request-id: NjAzNzU1NjVfY2MxZTIzMDlfNzc5NF8yMDQ5****



{
        "PreviewUrl": "https://prvsh.myqcloud.com/office/p/xxxx?_w_provider=XXX"
```

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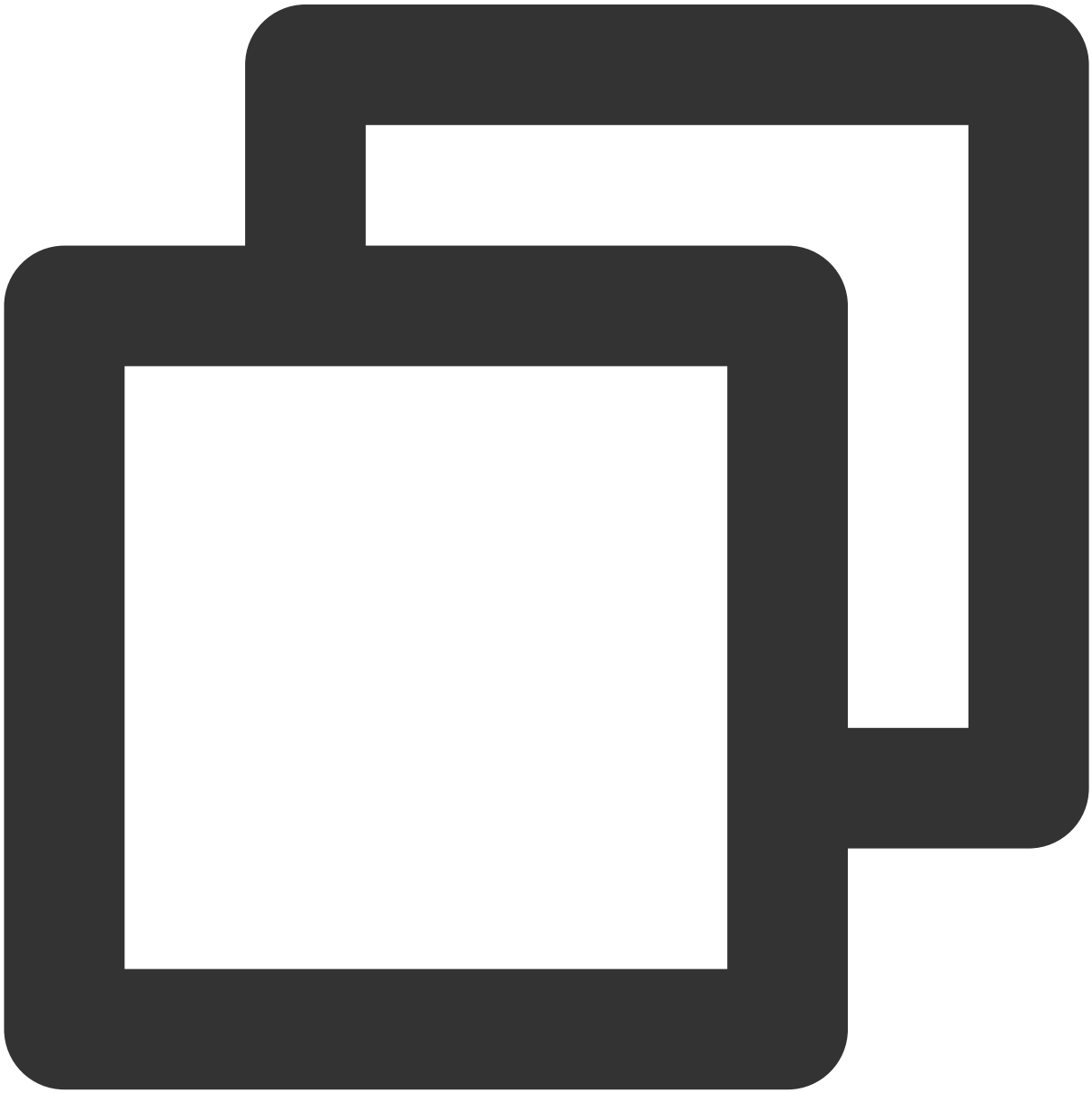
```
}
```

4. Initialize

During initialization, the JS-SDK will create an iframe under the configured mount node and automatically initialize relevant data and events.



```
var demo = COSDocPreviewSDK.config({
    url: 'Online file preview URL',  // The online preview URL of the file obtained
})
// If special processing needs to be performed on the iframe, you can get the DOM o
```

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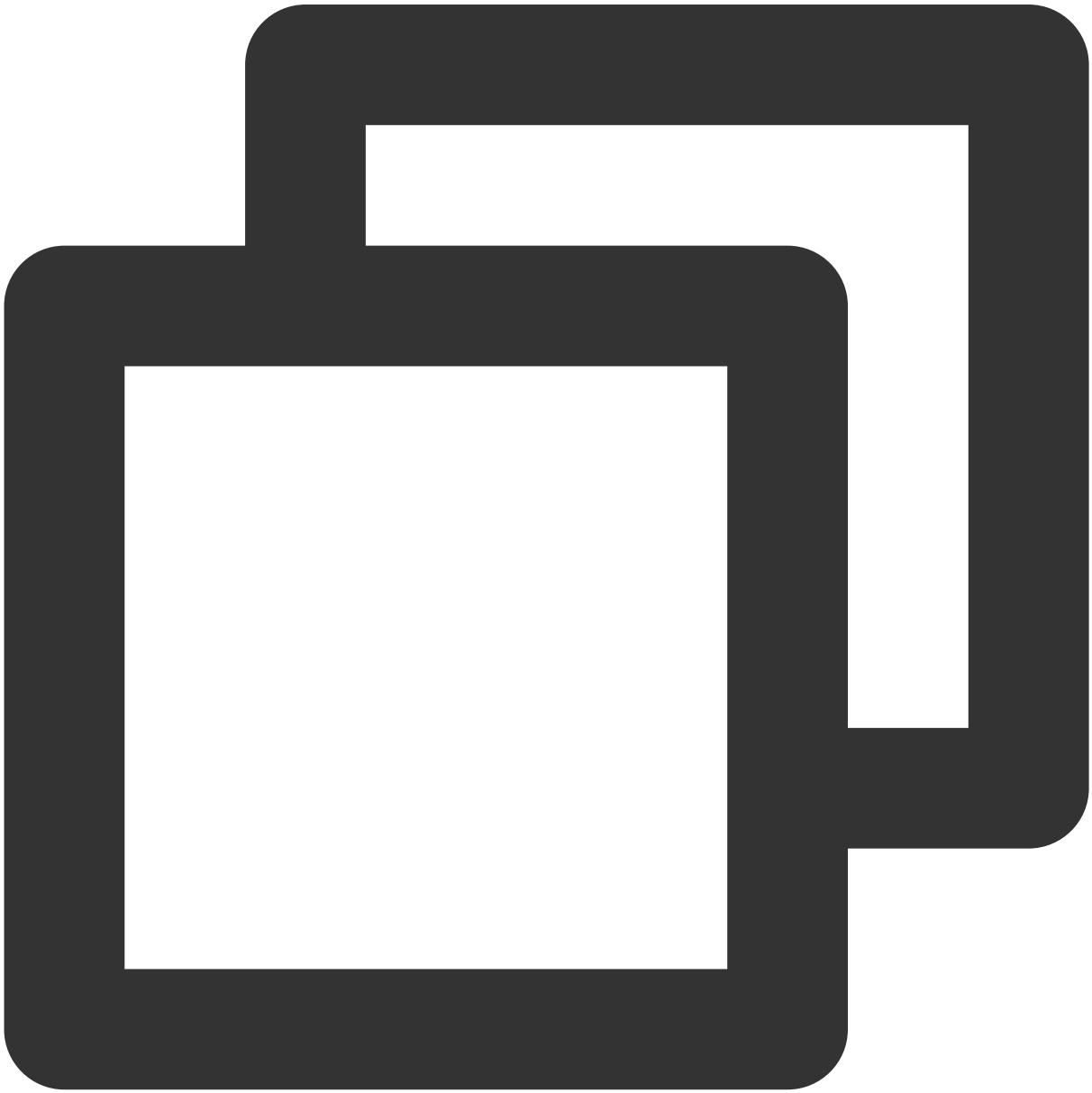
```
console.log(demo.iframe)
// File open result
demo.on('fileOpen', function(data) {
    console.log(data.success)
})
```

5. Configure the mount node

The mount node is the node mounted when the JS-SDK inserts the iframe. It is configurable during initialization.



```
<div class="custom-mount"></div>
```

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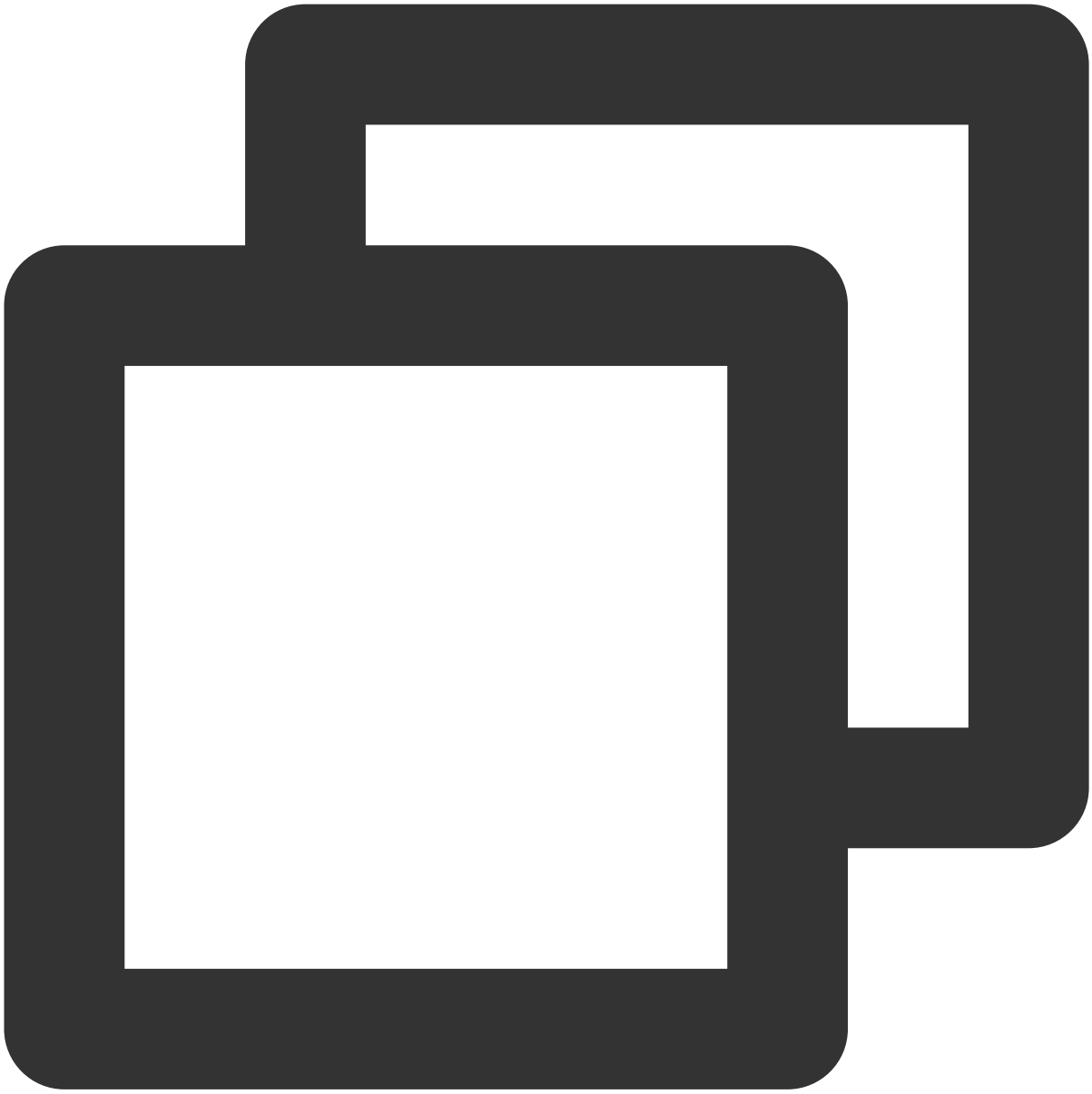

```
var demo = COSDocPreviewSDK.config({
    url: 'Online file preview URL',    // The online preview URL of the file obtain
    mount: document.querySelector('.custom-mount')    // Mount node. By default, th
})
```

After initialization is completed, the JS-SDK will automatically insert an iframe under the mount node.

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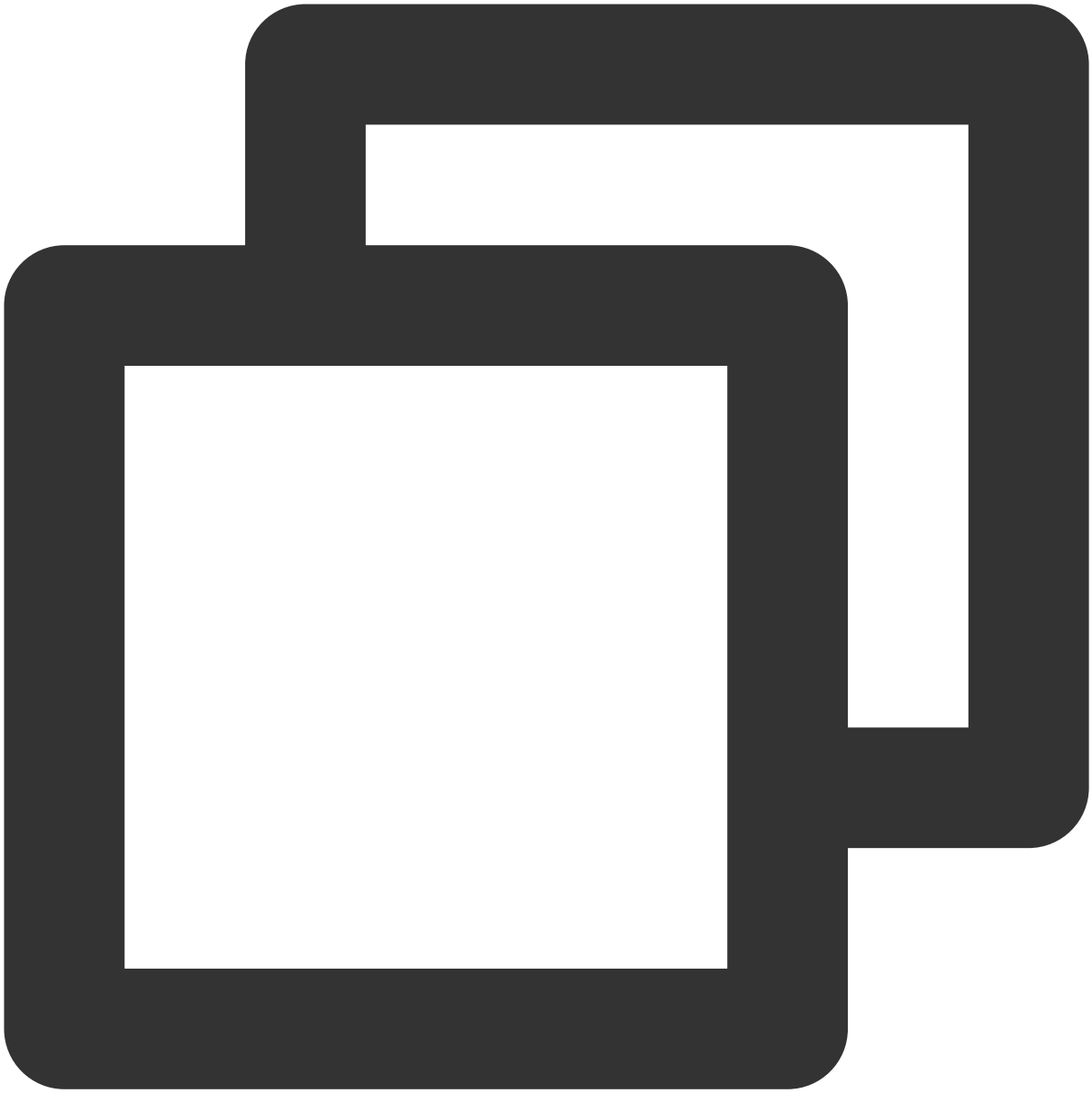

```
<div class="custom-mount">
    <iframe src="..."></iframe>
</div>
```

6. Authenticate the token

If no token is used, the signature validity period will be used for authentication by default. Once the signature expires, the file cannot be previewed.

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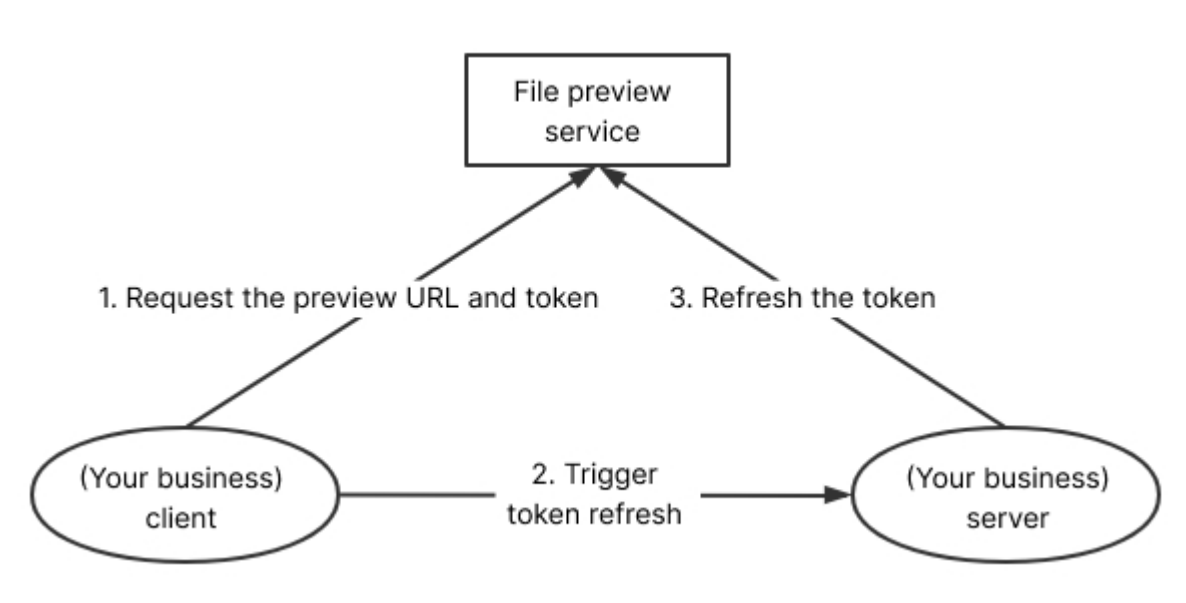
If a token is used for authentication, token authentication and refresh can be performed continuously during preview, and you can control the preview authorization on your own.



Token authentication consists of the following three steps:

1. Get the token.

Sample request

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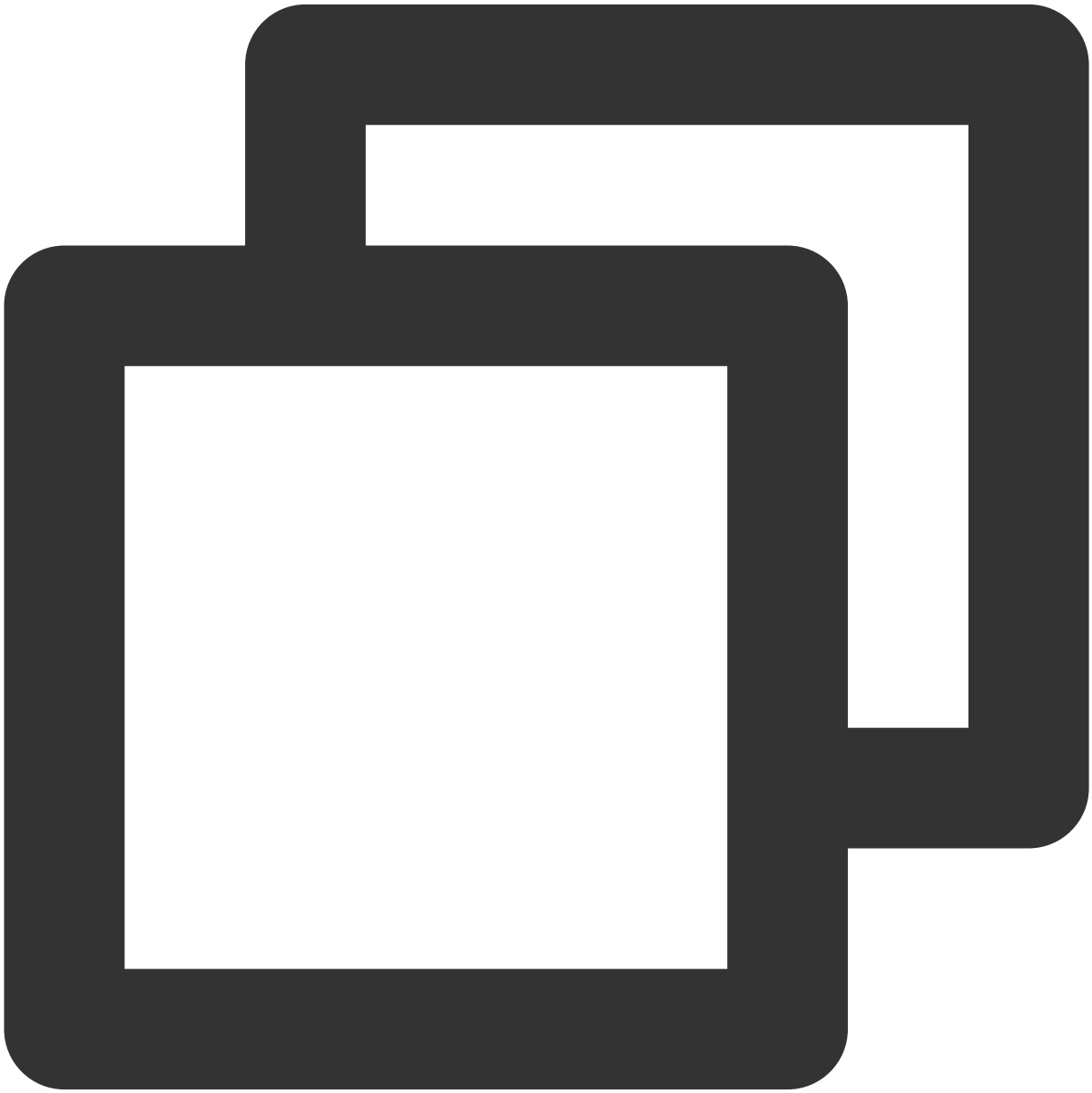

```
GET /<ObjectKey>?ci-process=doc-preview&dstType=html&weboffice_url=2&tokenuid=test&
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
```

Sample response

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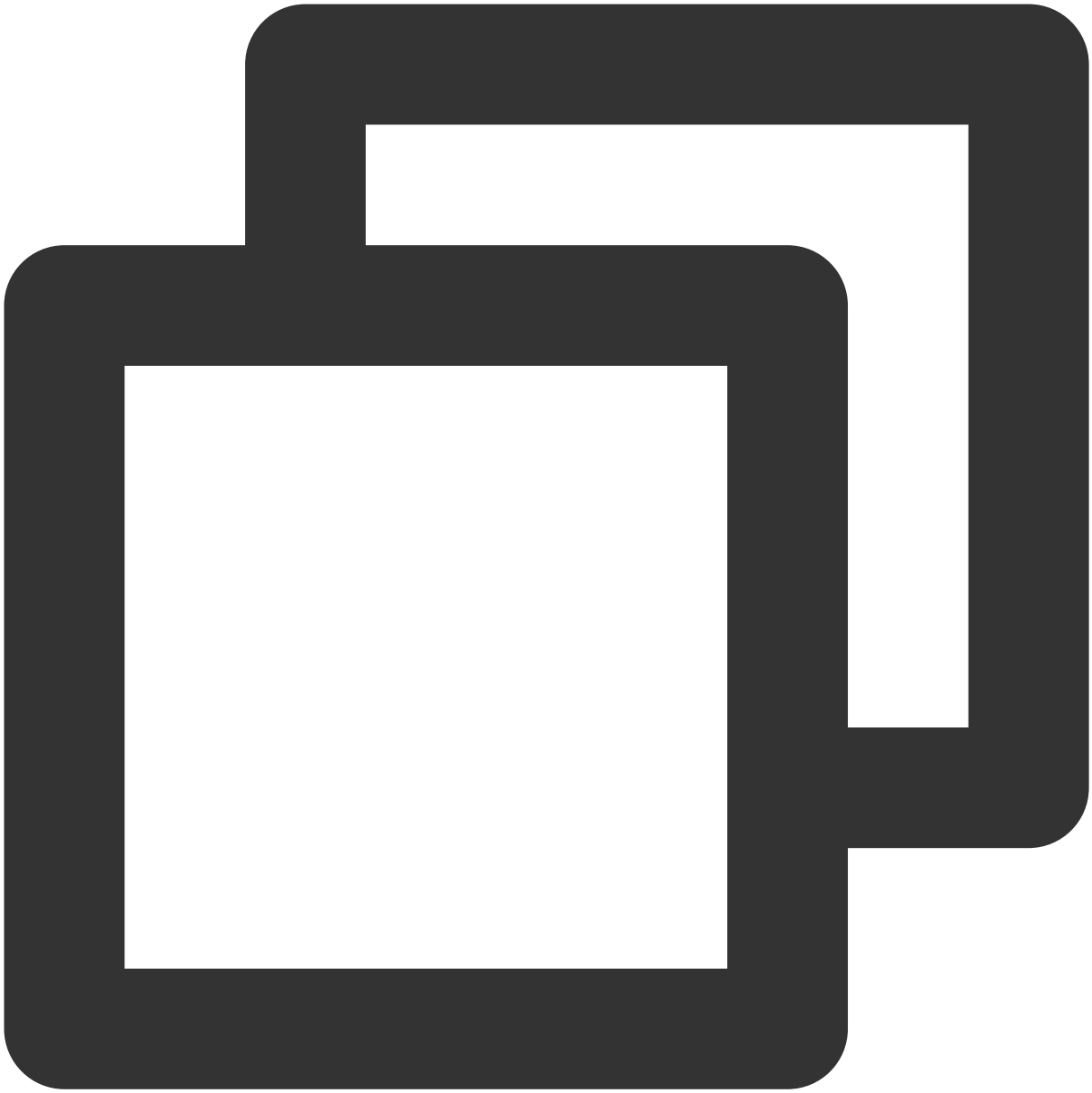

```
HTTP/1.1 200 OK
Content-Type: text/html
Content-Length: 108
Date: Tue, 21 Jun 2022 10:41:10 GMT
Status: 200 OK
x-cos-request-id: NjJiMWEwNDZfMTgyMjYyNjRfYmRlYl9iNTAw****



{
 Token: "ChAJj2vNRiHTc8reToMmJ7T2EJ7FxpUGGhS1mPJanpN03u8PSB17/YKBA/Vo****"
```

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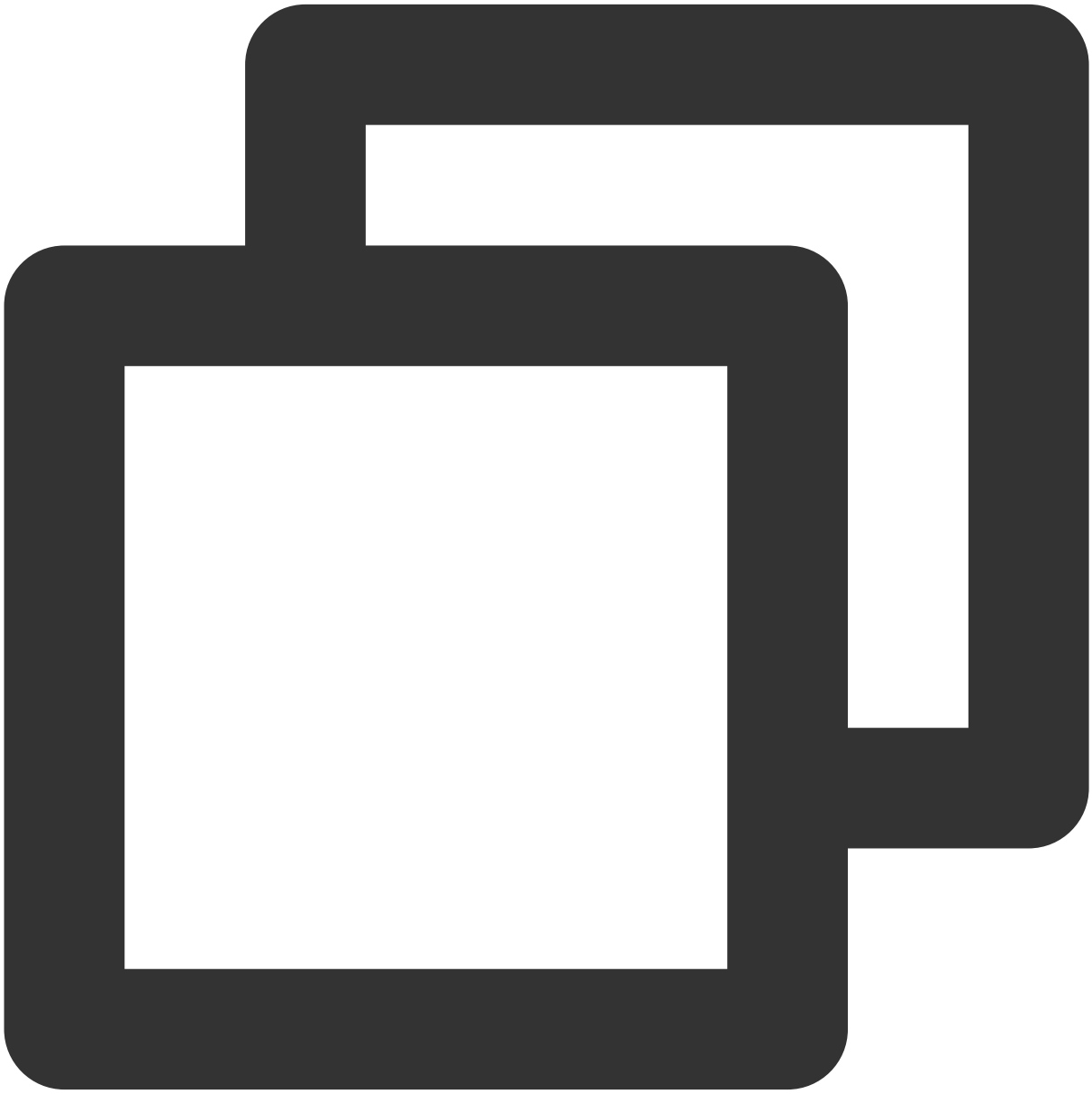
```
 TokenExpireTime: "1655808670"
}
```

2. Set the token.

Note:

To avoid frequent token refresh, we recommend you set `timeout` to over 10 minutes. To prevent the refresh request from timing out, the JS-SDK will refresh the token several minutes in advance.



```
var demo = COSDocPreviewSDK.config({
 url: 'Online file preview URL',  // The online preview URL of the file obtained in
})
```

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```
// Set the token
demo.setToken({
  token: 'yourToken', // Enter the obtained token
  timeout: 10 * 60 * 1000, // Timeout period of the token in milliseconds. To avoid
});
```

3. Configure the `refreshToken` method to automatically refresh the token upon timeout.

The `refreshToken` method needs to request the **token refresh method encapsulated on your server**. The server can encapsulate the above token acquisition method (for more information, see Get the token).

Taking the server method `http://your.server.com/refreshToken` as an example, configure `refreshToken` as follows:

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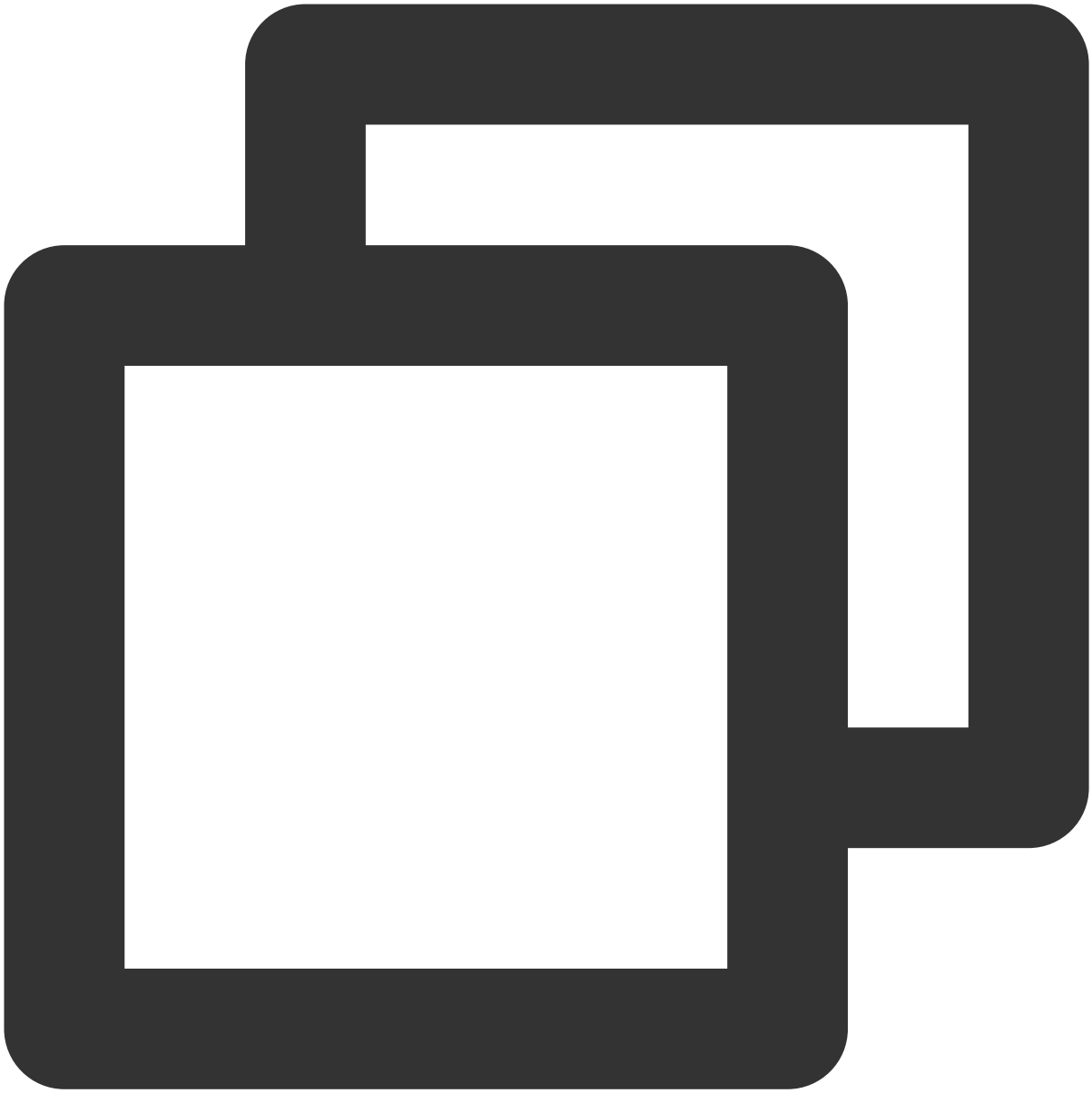

```
// Get the token
const refreshToken = () => {
  // Call the method encapsulated on the server to get the token information
  const tokenInfo = await $.get('http://your.server.com/refreshToken')

  // `Promise` or `return { token, timeout }` can be returned.
  return {
 token: tokenInfo.token, // The token to be set, which is required.
 timeout: 10 * 60 * 1000, //  The token timeout period in milliseconds, which is re
  };
};
```

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```
var demo = COSDocPreviewSDK.config({
 url: 'Online file preview URL',
 refreshToken    // Automatic token refresh method
})

// Set the token
demo.setToken({
  token: 'yourToken', // Enter the obtained token
  timeout: 10 * 60 * 1000   // Token timeout period in milliseconds
});
```

Samples

For the sample code of online preview of a text file, see the DOC file preview demo at GitHub.

For the sample code of online preview of a presentation file, see the PPT file preview demo at GitHub.

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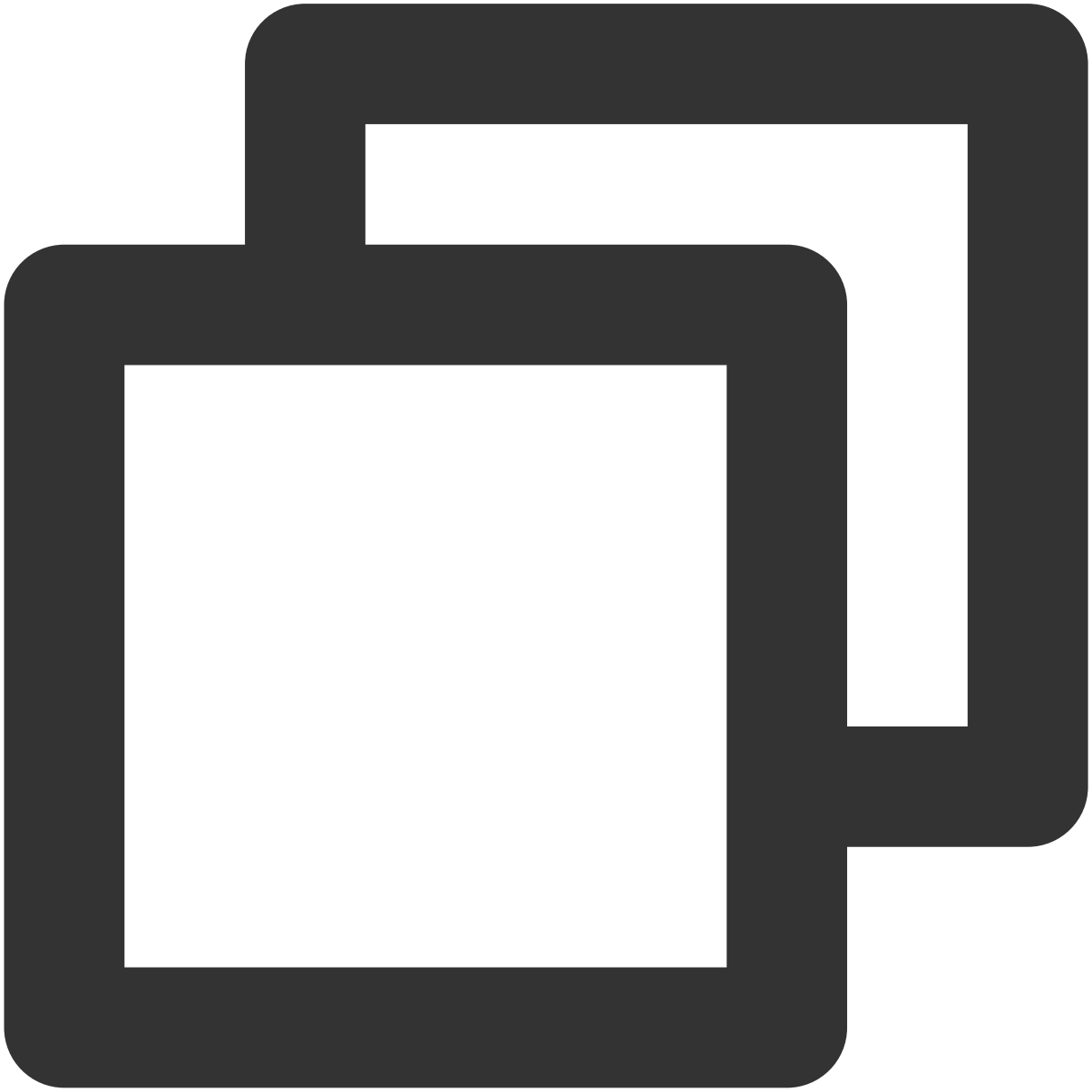
Configuration Item Description

Last updated：2024-06-12 15:27:03

Display Mode

Enable different display modes by initializing the configuration option class:



```
var demo = COSDocPreviewSDK.config({
```

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```
    mode: 'normal',
})
```

The configuration options are as described below:

`mode` Value	Description	Default Option
normal	Normal mode, with all functional UIs shown	Yes
simple	Simple mode, with no header and toolbar shown	No

Custom Configuration Options

When initializing the JS-SDK, by configuring different options for different types of files, you can enable or disable specific configurations in a file and control its status when it is opened.

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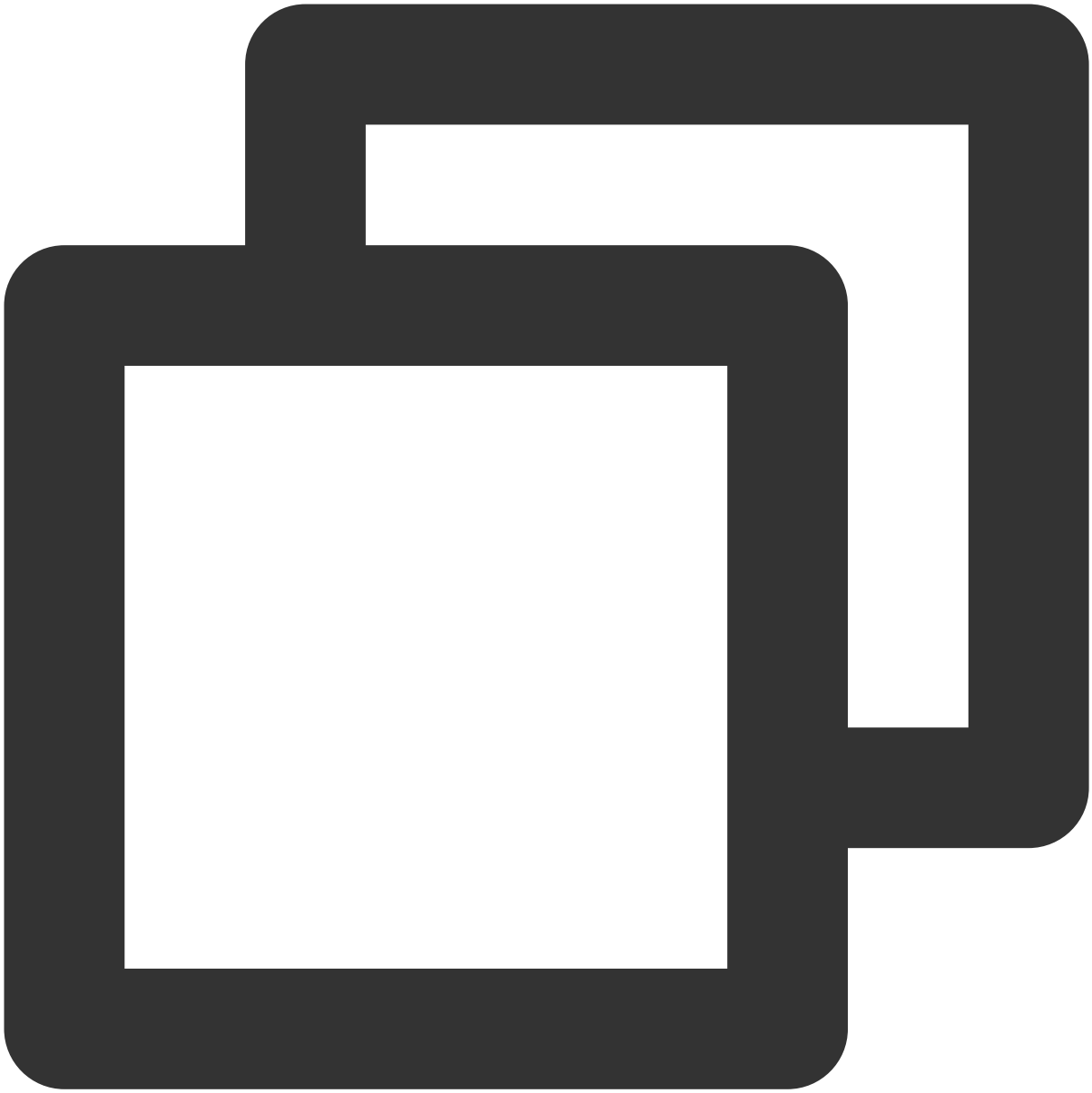

```
COSDocPreviewSDK.config({
    // Common option, which is applicable to all types of files.
    commonOptions: {
      isShowTopArea: false, // Hide the top area (header and toolbar).
      isShowHeader: false // Hide the header area.

    },
    // Word file configurations.
    wordOptions: {
      isShowDocMap: false,
      isBestScale: true
```

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```
    },
    // PDF file configurations.
    pdfOptions: {
      isShowComment: true,
      isInSafeMode: false
    },
    // Presentation file configurations.
    pptOptions: {
      isShowBottomStatusBar: true
    }
})
```

Common configuration items: `commonOptions`

Configuration Item	Description	Default Value
isShowTopArea	Whether to show the top area (header and toolbar)	false
isShowHeader	Whether to show the header area	false
isBrowserViewFullscreen	Whether to enable full screen mode in the browser area	false
isIframeViewFullscreen	Whether to enable full screen mode in the iframe area	false

Text file configuration items: `wordOptions`

Configuration Item	Description	Default Value
isShowDocMap	Whether to enable the directory feature, which is enabled by default.	true
isBestScale	Whether to display the file at the best scale by default (for PC) when the file is opened	true
isShowBottomStatusBar	Whether to show the bottom status bar (for PC)	false

PDF file configuration items: `pdfOptions`

Configuration Item	Description	Default Value
isShowComment	Whether to show annotations, which are shown by default.	true
isInSafeMode	Whether to enable the safe mode (text cannot be selected or copied and links cannot be opened). It is disabled by default.	false
isShowBottomStatusBar	Whether to show the bottom status bar (for PC)	false

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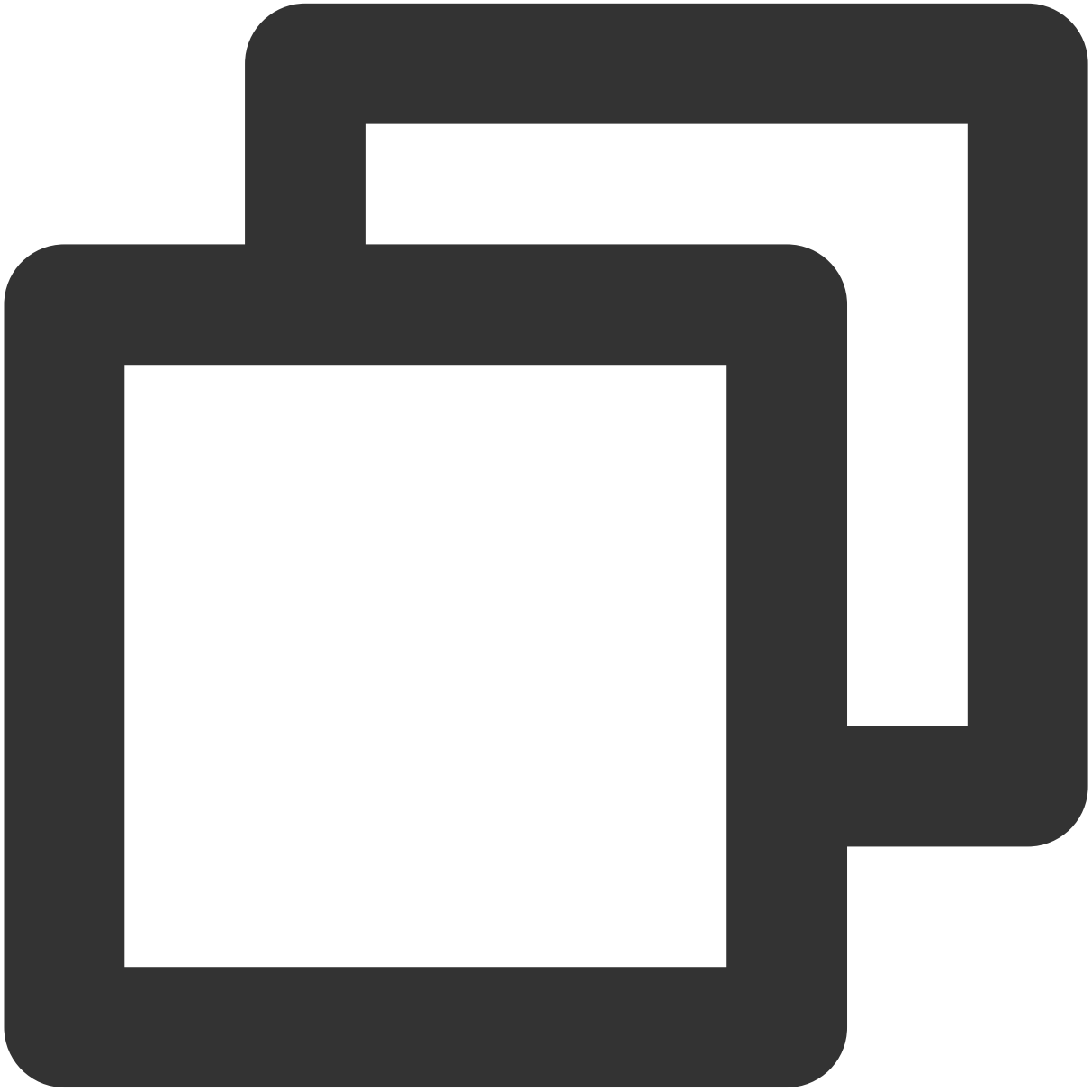
Presentation file configuration items: `pptOptions`

Configuration Item	Description	Default Value
isShowBottomStatusBar	Whether to show the bottom status bar (for PC)	false

Component Status Settings

Page components can be hidden or disabled through the `commandBars` option.



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```
COSDocPreviewSDK.config({
    // Common option, which is applicable to all types of files.
    commandBars: [
      {
        cmbId: 'Print', // Component ID
        attributes: {
          visible: false, // Whether to show the component. Valid values: `false` (
          enable: false, // Whether to enable the component. Default value: `true`.
        },
      },
    ]
})
```

The list of currently available components is as follows:

Component ID	Description	Scope of Application
Print	Print feature and the Ctrl + P shortcut for print	All files
MobileHeader	Top toolbar in the client	All files
WriterHoverToolbars	Bottom toolbar in the client	Word files
DownloadImg	Download icon when the image is double-clicked	Presentation files
PlayComponentToolbar	Toolbar in the top-right corner when in full screen mode	Presentation files
PlayContextCheckImage	Right click during playback - View original image	Presentation files
FloatMenuCheckImage	Floating menu bar when the image is selected - View original image	Presentation files
WPPMobileCommentButton	Comment button on the bottom toolbar in the client	Presentation files
PDFMobilePageBar	Page number in the client	PDF files

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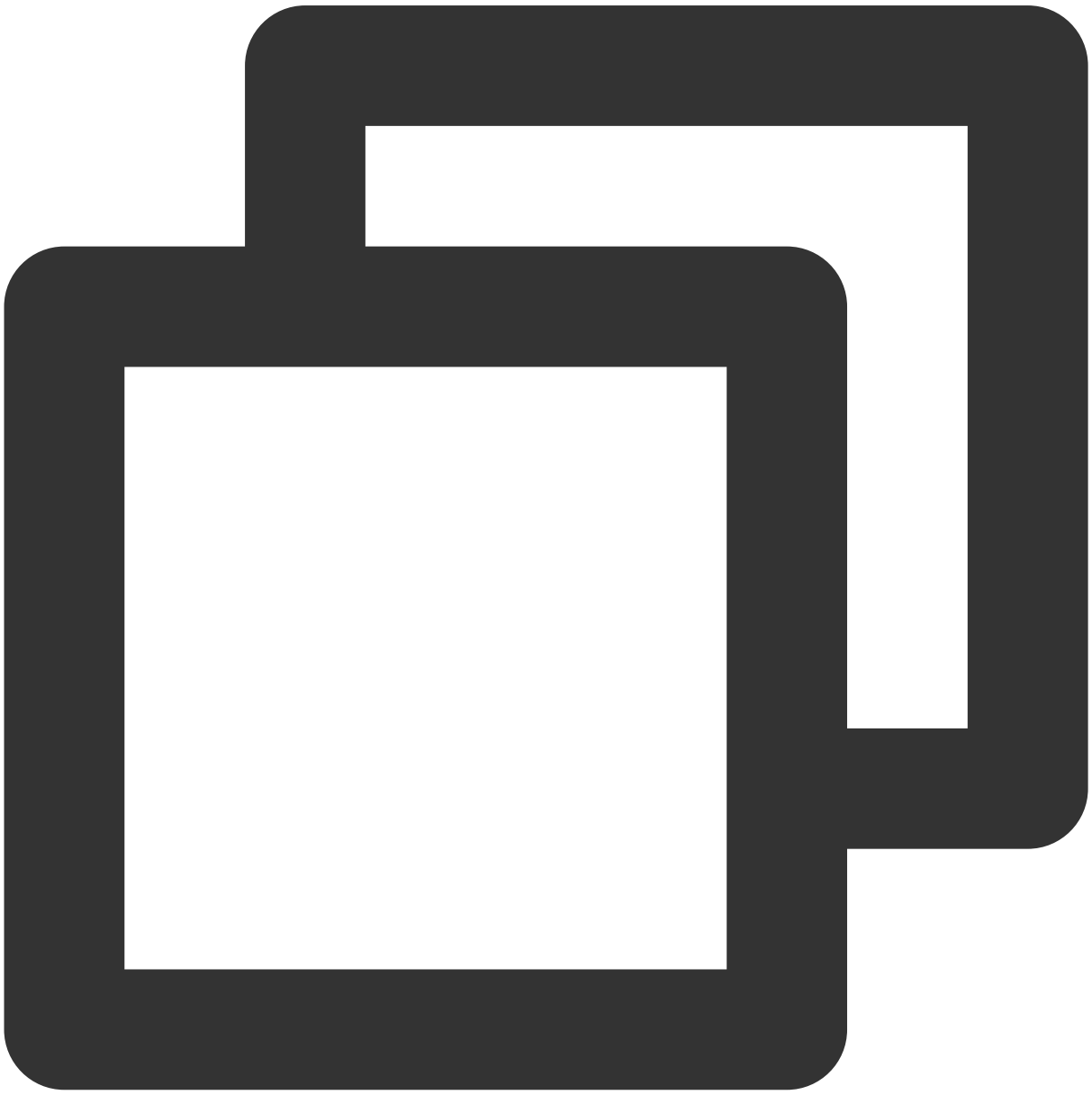
Advanced Features

Last updated：2024-06-12 15:27:03

The JS-SDK provides advanced features to directly manipulate files. Below is the call process of advanced features:

1. Wait for a file to be loaded



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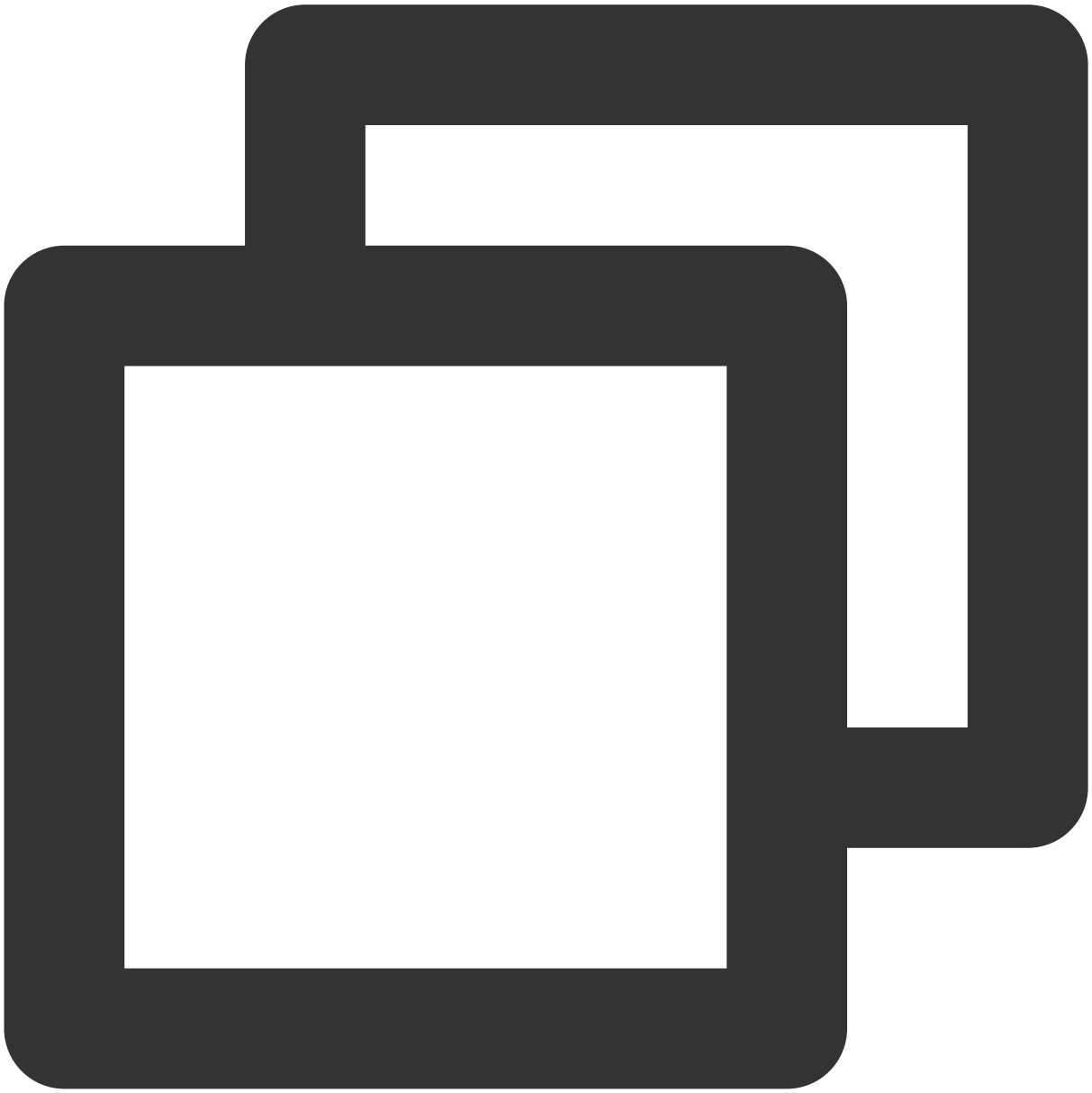
```
await demo.ready() // You can call an advanced API only after the demo is ready. Th
```

2. Get the file object



```
// Text
const wordApp = demo.WordApplication()
// Spreadsheet
```

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```
const excelApp = demo.ExcelApplication()
// Presentation
const pptApp = demo.PPTApplication()
// PDF
const pdfApp = demo.PDFApplication()

// Automatic recognition
const app = demo.Application
```

3. Use advanced features

Below is the sample code of using advanced features on text, spreadsheet, presentation, and PDF files. For the specific formats supported for each file type, see Specifications and Limits.

Text file

Get the total number of pages

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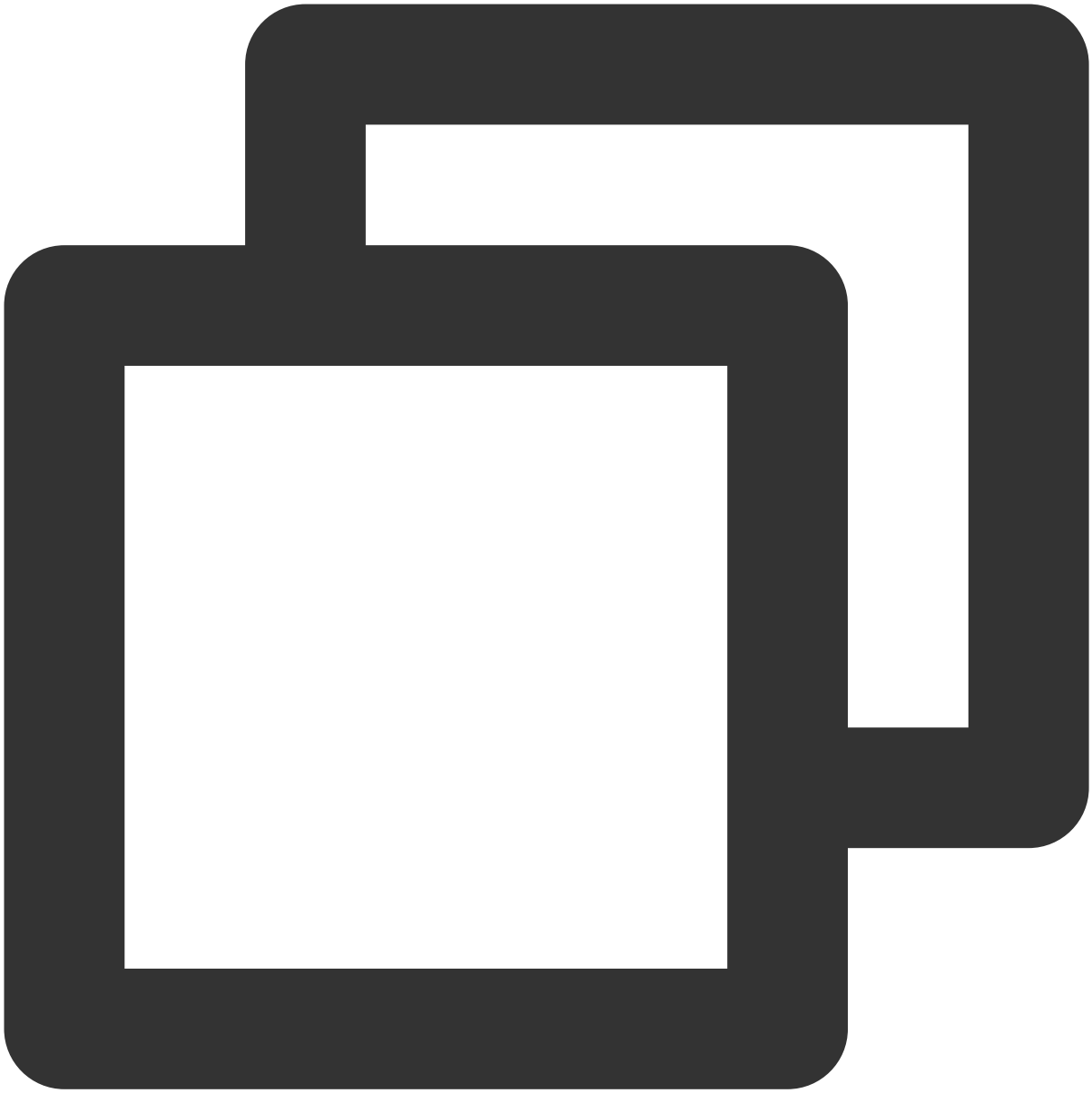

```
/*
* @param: WdInformation: {
*       wdNumberOfPagesInDocument: 4
*   }
* @return: {PagesCount: number, End: boolean}
*/
const app = demo.WordApplication()
const {Enum} = app
let totalPages = await app.ActiveDocument.Range.Information(Enum.WdInformation.wd
if (totalPages.End) {
  // Getting the total number of pages is an async operation. The obtained number
```

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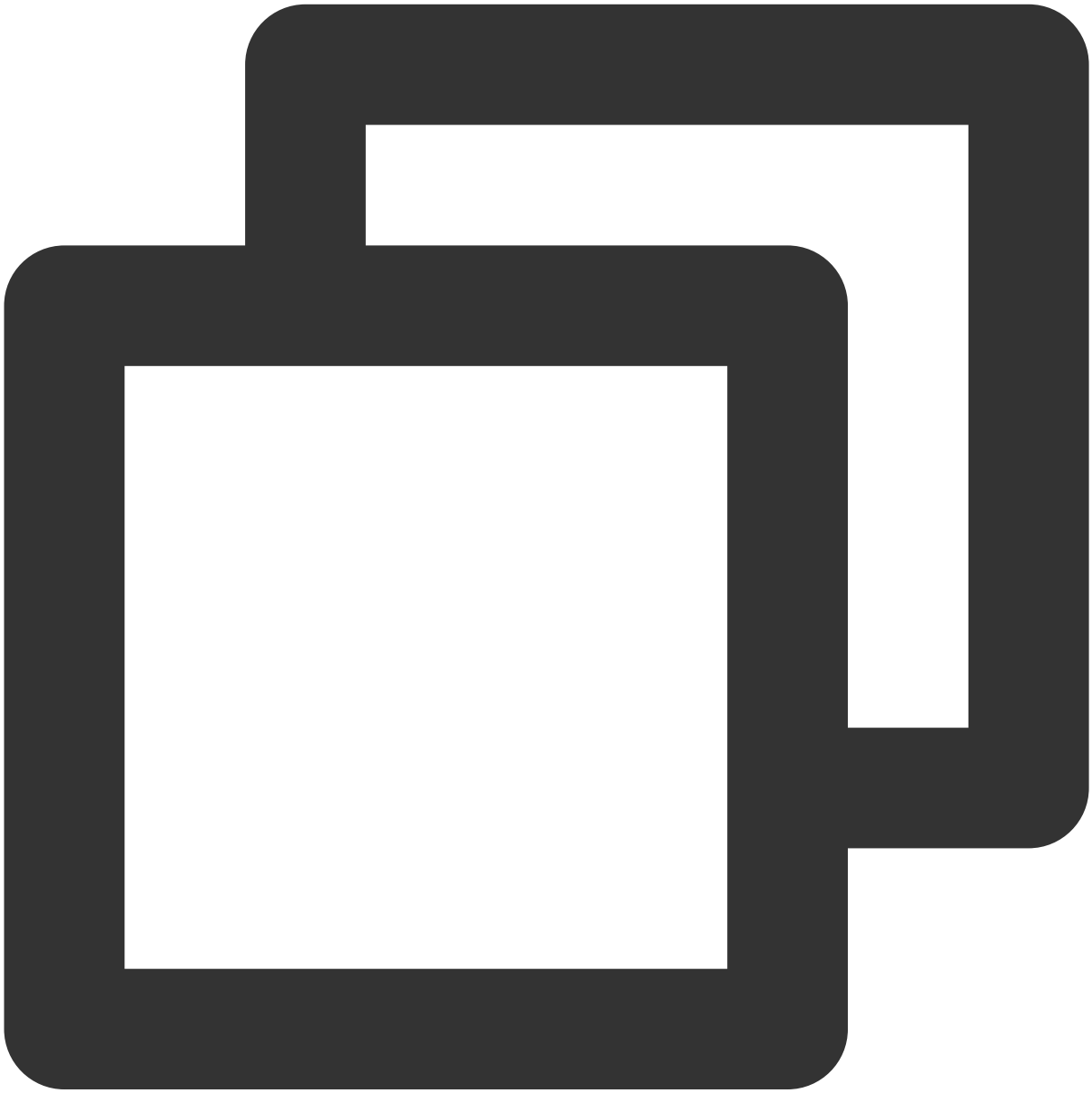
```
    console.log("All pages are loaded. There are ", totalPages.PagesCount, " pages
}
```

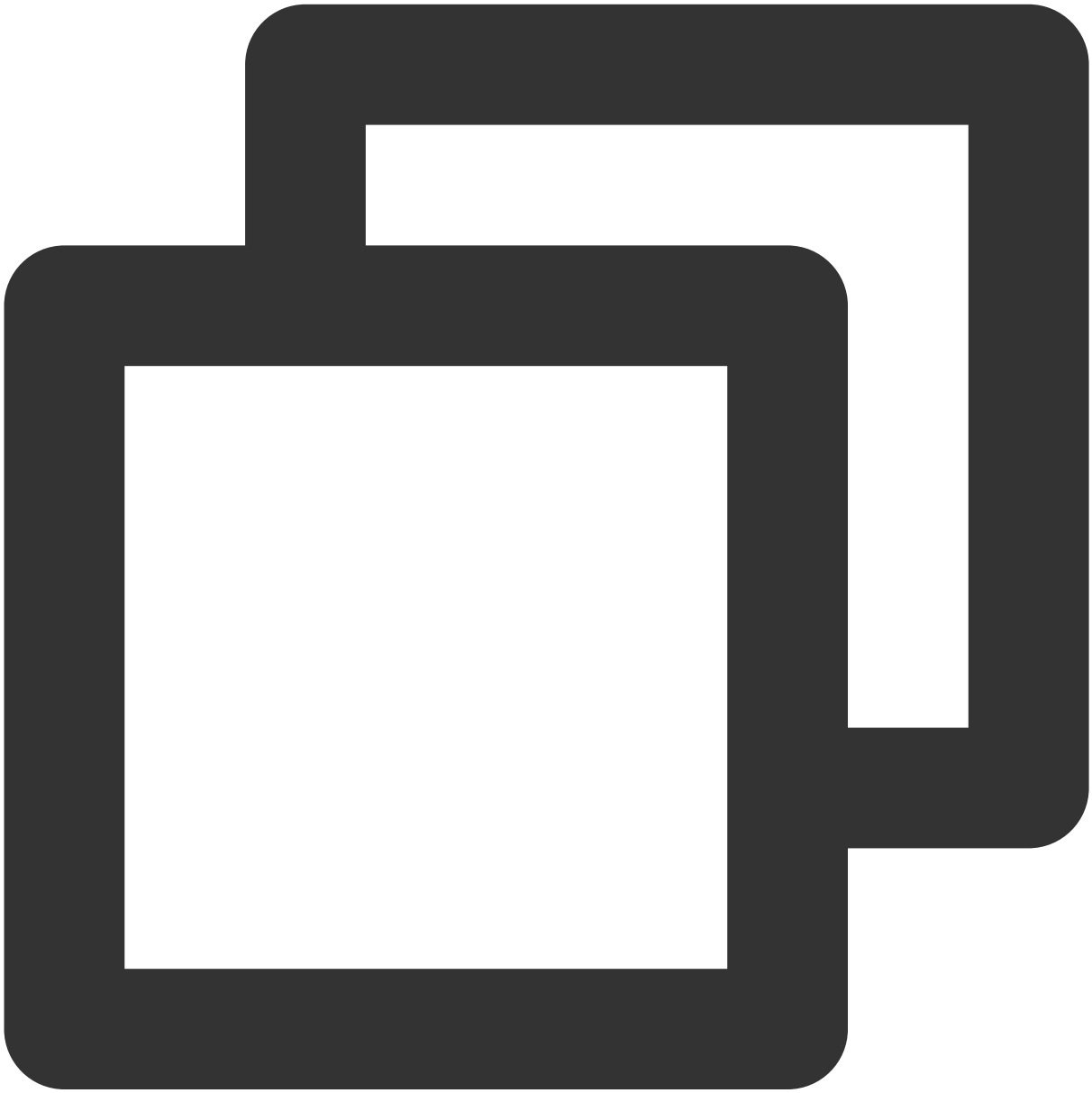
Get the current page



```
/*
* @param: WdInformation: {
*       wdActiveEndPageNumber: 3
*   }
* @return: number
*/
const app = demo.WordApplication()
```

```
const {Enum} = app
let currentPage = await app.ActiveDocument.Selection.Information(Enum.WdInformati
```

Go to the specified page



```
/*
* @param: { What?: WdGoToItem, Which?: WdGoToDirection.wdGoToAbsolute, Count?: nu
* WdGoToItem: {
*      wdGoToPage: 1,
*  }
*  WdGoToDirection: {
*      wdGoToAbsolute: 1
```

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```
*  }
* @return: number Return the target page number
*/
const app = demo.WordApplication()
const {Enum} = app
const page = await app.ActiveDocument.Selection.GoTo(Enum.WdGoToItem.wdGoToPage,
// Or
const page = await app.ActiveDocument.Selection.GoTo({
  What: Enum.WdGoToItem.wdGoToPage,
  Which: Enum.WdGoToDirection.wdGoToAbsolute,
  Count: 10
})
```

Set whether to show comments

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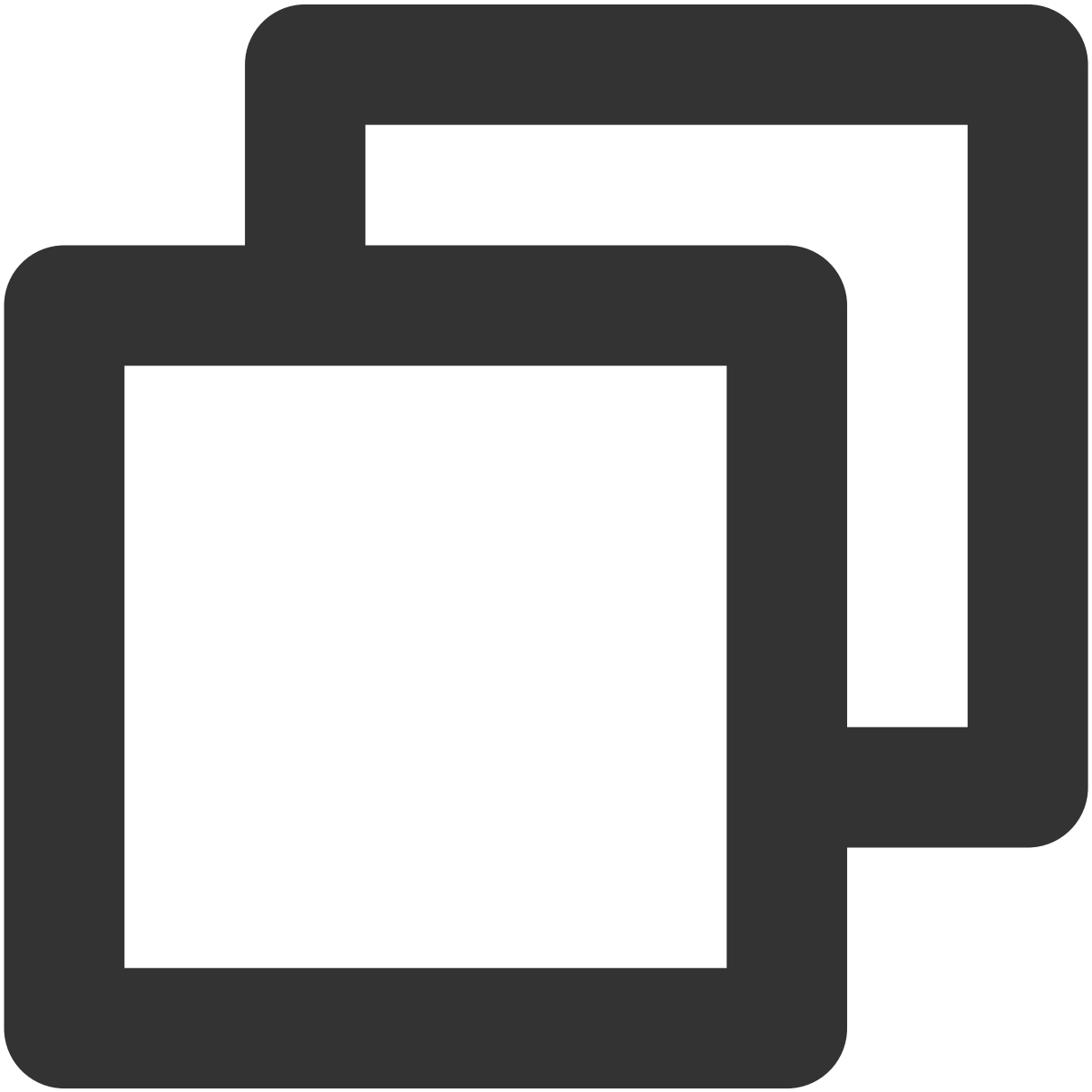

```
/*
* @param: bool
* Valid values: `true` (yes); `false` (no).
*/

// Hide comments.
demo.WordApplication().ActiveDocument.ActiveWindow.View.ShowComments = false
```

Set whether to show the table of contents

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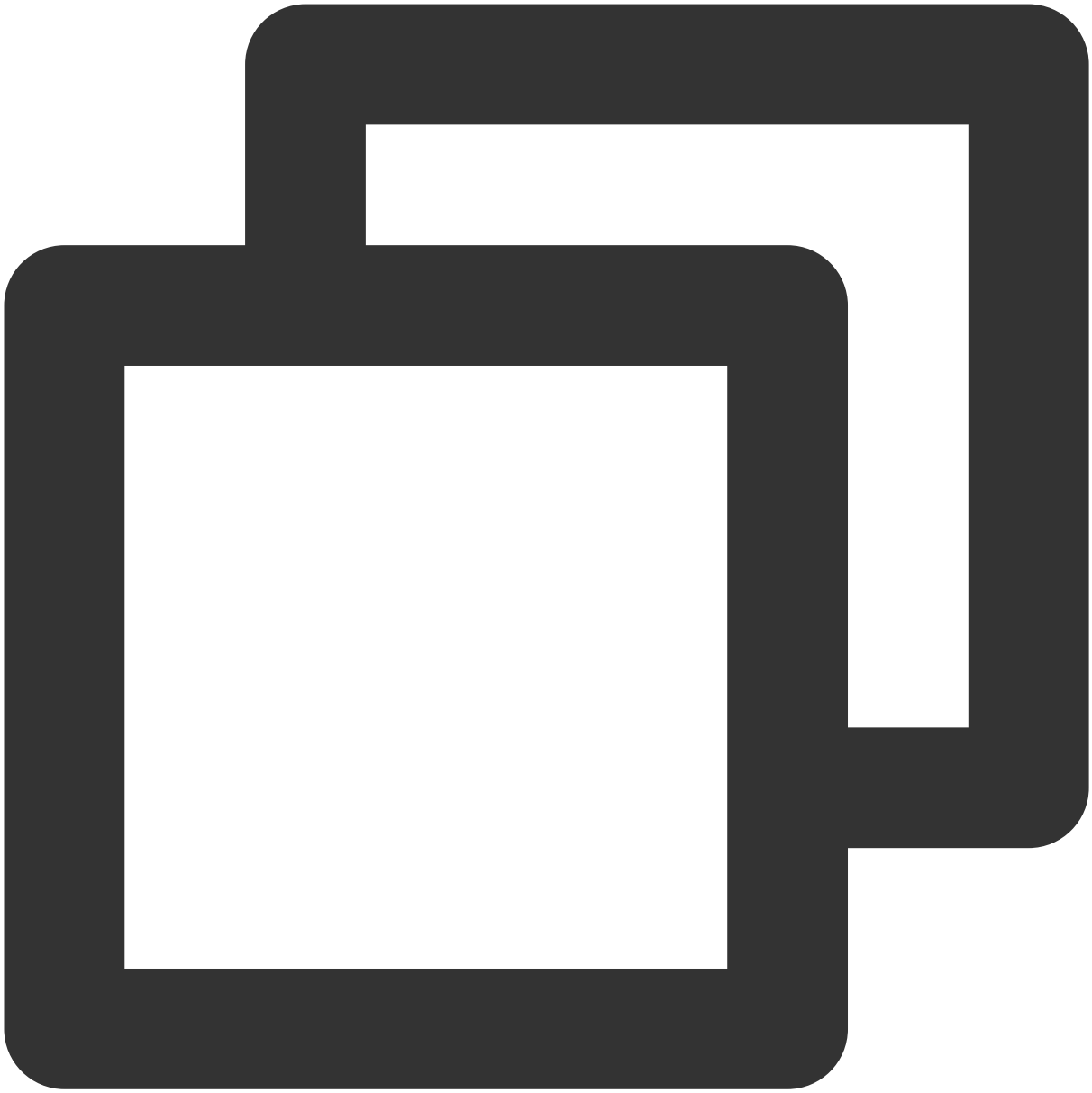

```
/*
* @param: bool
* Valid values: `true` (yes); `false` (no).
*/

// Hide the table of contents.
demo.WordApplication().ActiveDocument.ActiveWindow.DocumentMap = false
```

Zoom the view

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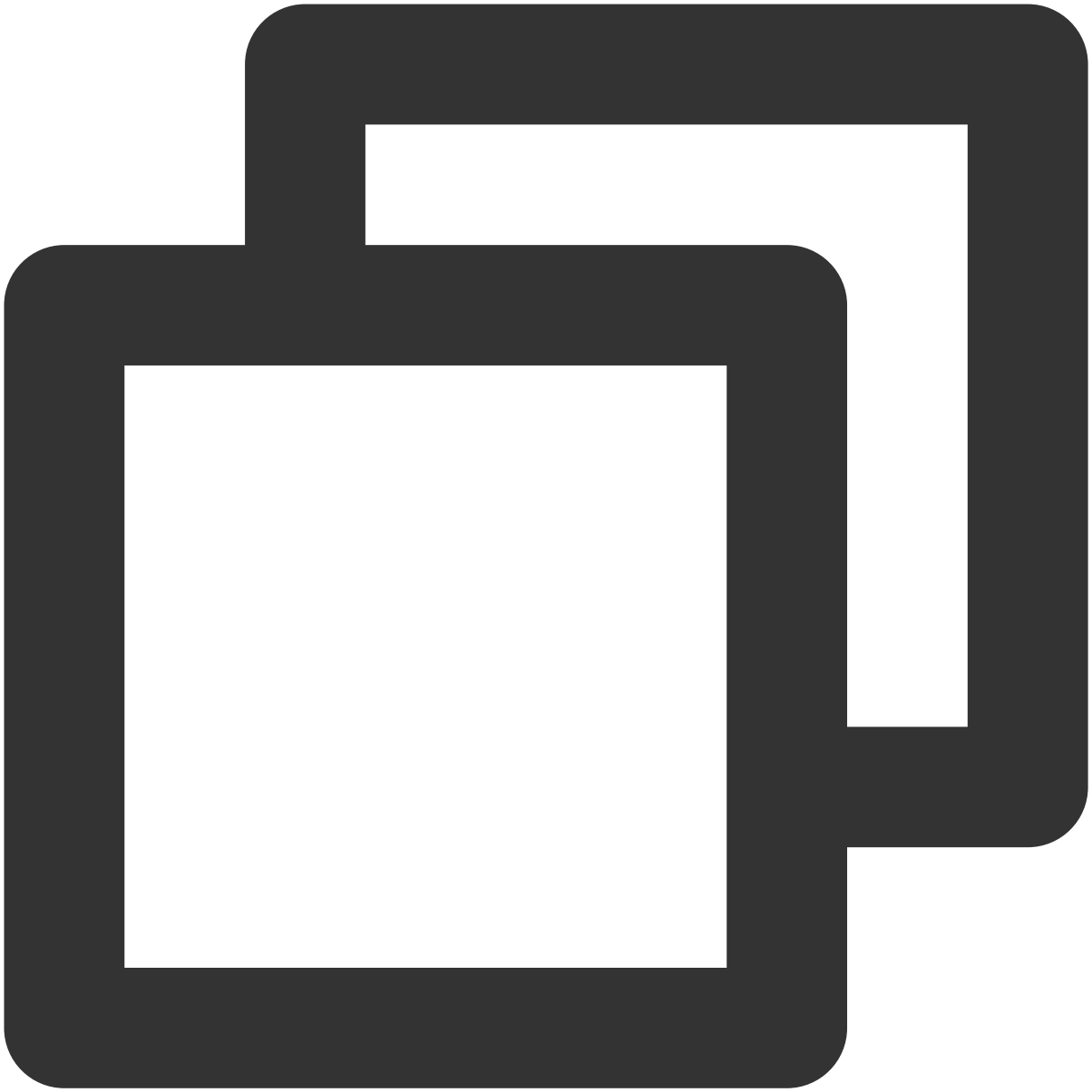

```
/*
* @return: number
*/
await demo.WordApplication().ActiveDocument.ActiveWindow.View.Zoom.Percentage  //

/*
* @param : 50 <= number <= 300 (The zoom level is between 50% and 300%.)
*/
demo.WordApplication().ActiveDocument.ActiveWindow.View.Zoom.Percentage = 100  //
```

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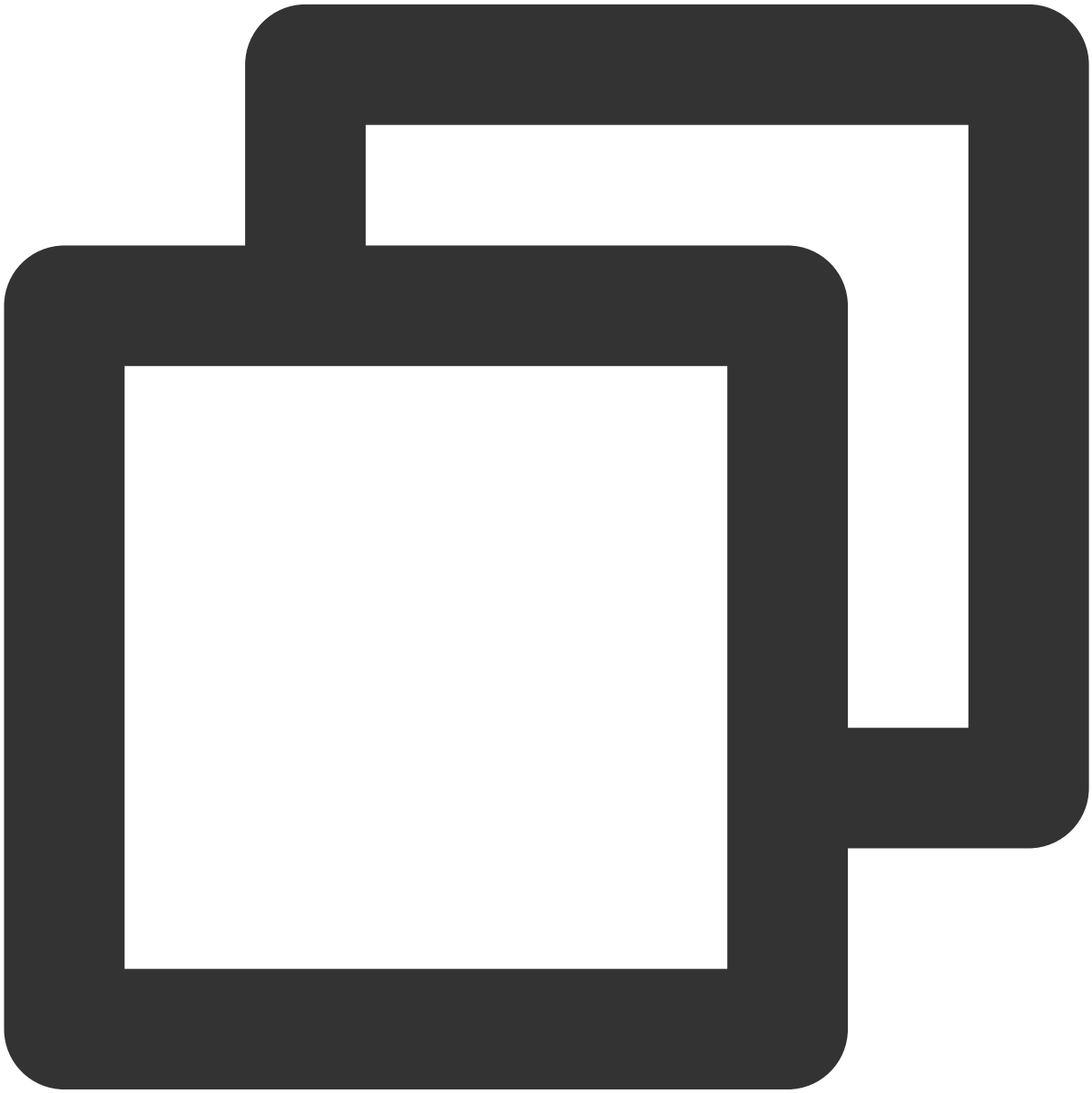
Spreadsheet file

Get the names of all sheets



```
const app = demo.ExcelApplication()
const Names = []
// For(start, end, step, handle)
await app.For(1, app.Sheets.Count, 1, async (Index) => {
    Names.push(await app.Sheets.Item(Index).Name)
})
console.log(Names)
```

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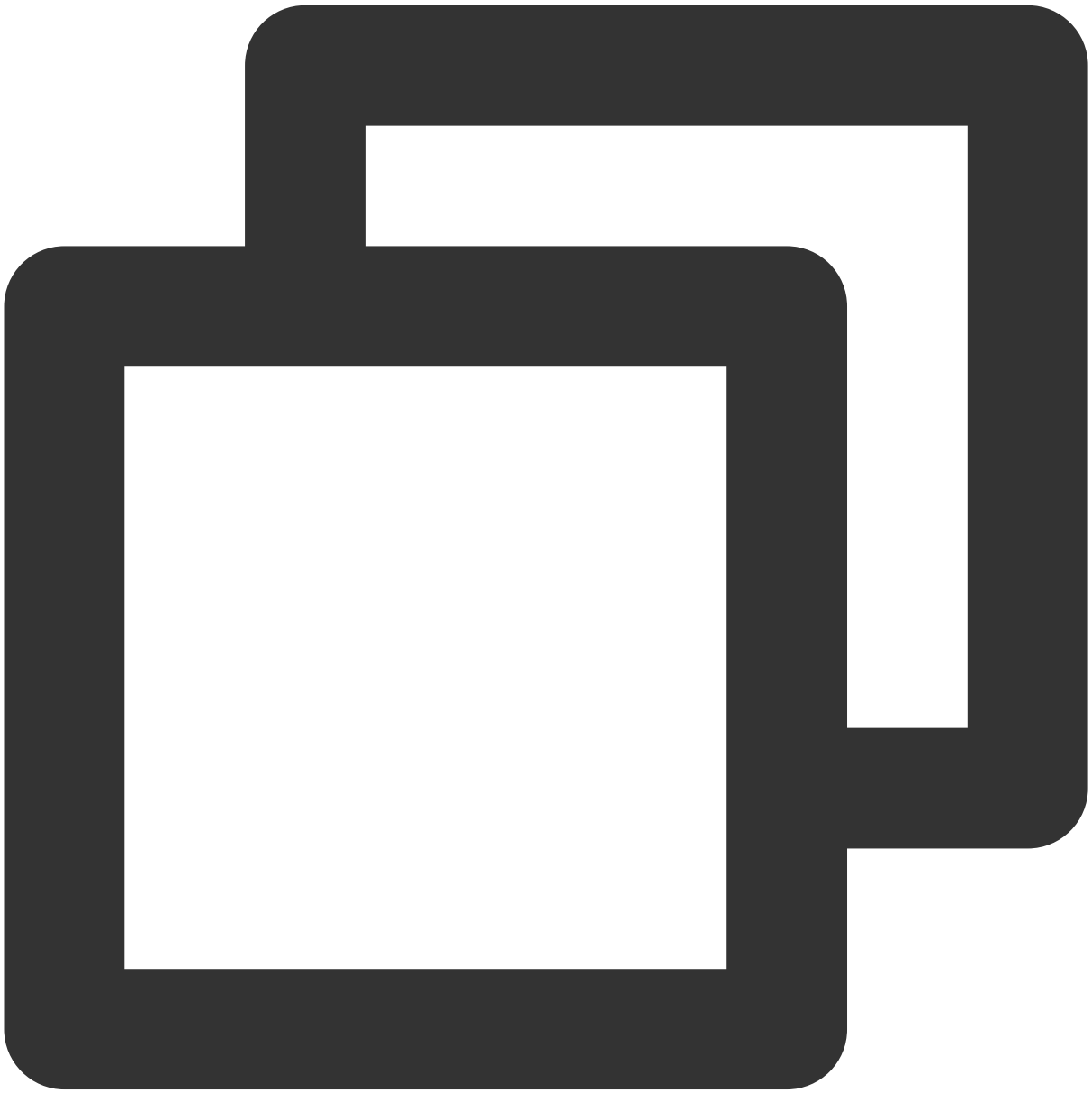
Get the name of the current sheet



```
const app = demo.ExcelApplication()
const name = await app.ActiveSheet.Name
```

Switch to the specified sheet

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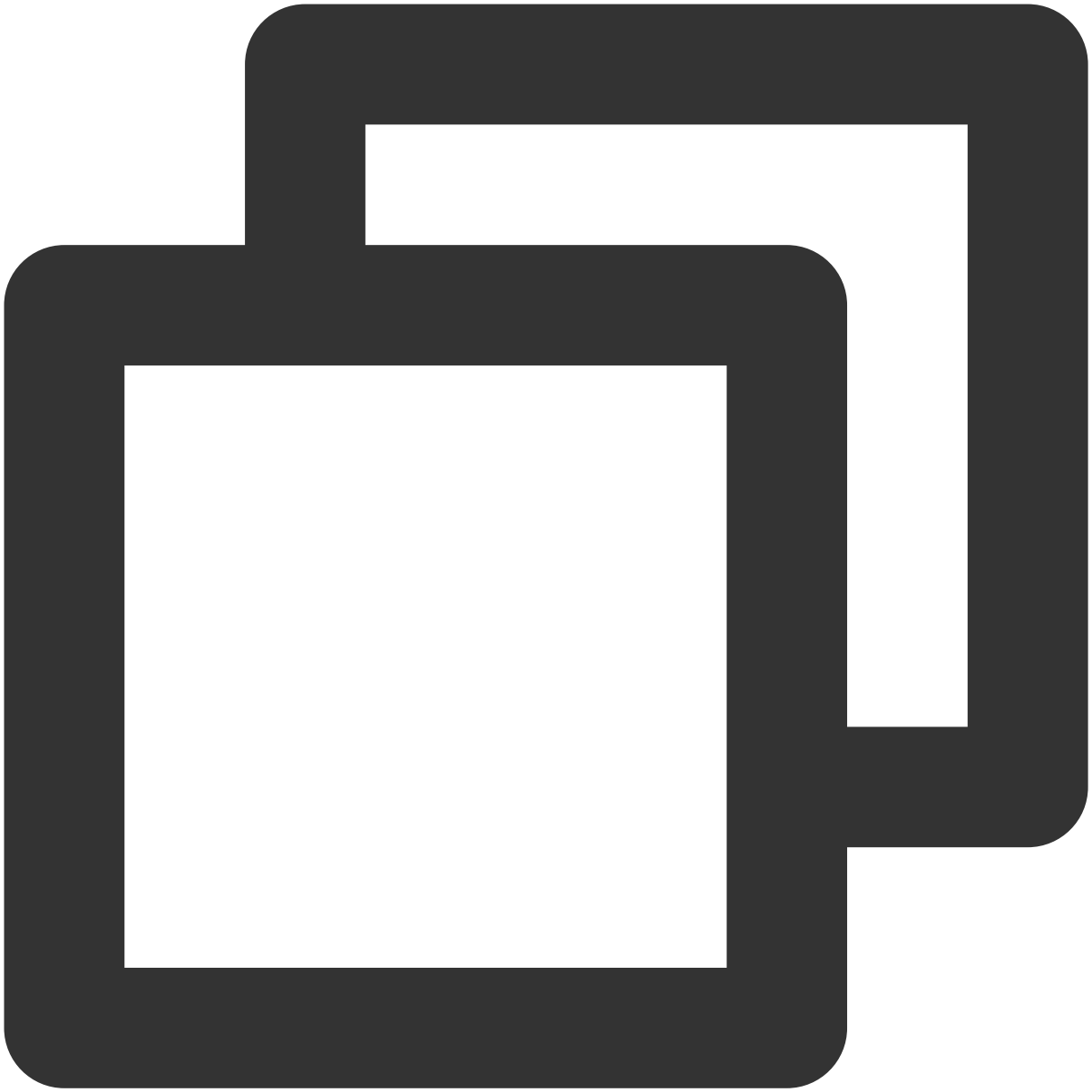

```
const app = demo.ExcelApplication()
const sheetIndex = 1 // Sheet number, which starts from 1.
app.Sheets.Item(sheetIndex).Activate() // Switch the sheet.
```

Zoom the view

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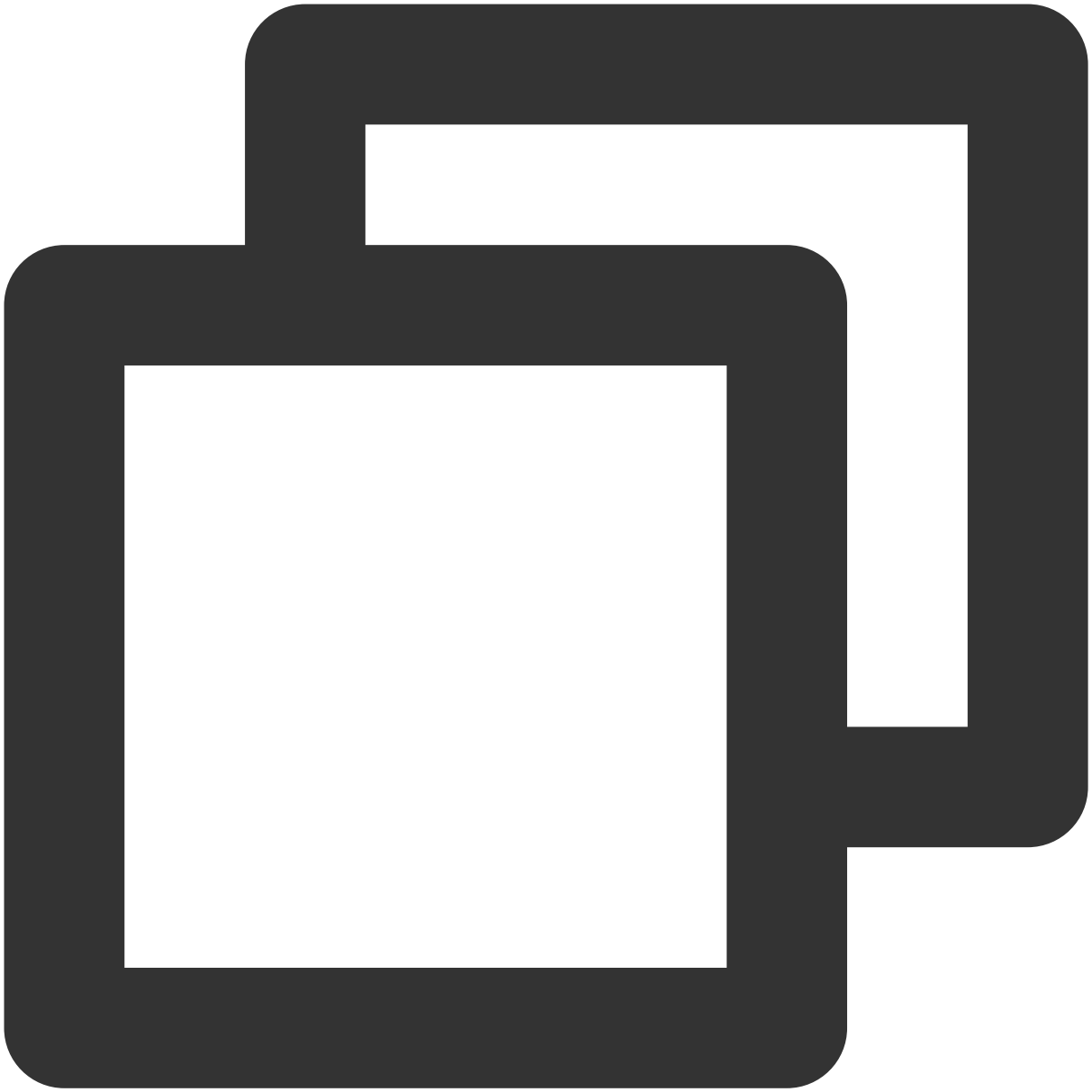

```
/*
* @return: number
*/
await demo.ExcelApplication().ActiveWorkbook.ActiveSheetView.Zoom     // Read the
/*
* @param : 10 <= number <= 500 (The zoom level is between 10% and 500%.)
*/
demo.ExcelApplication().ActiveWorkbook.ActiveSheetView.Zoom = 100     // Set the
```

Presentation file

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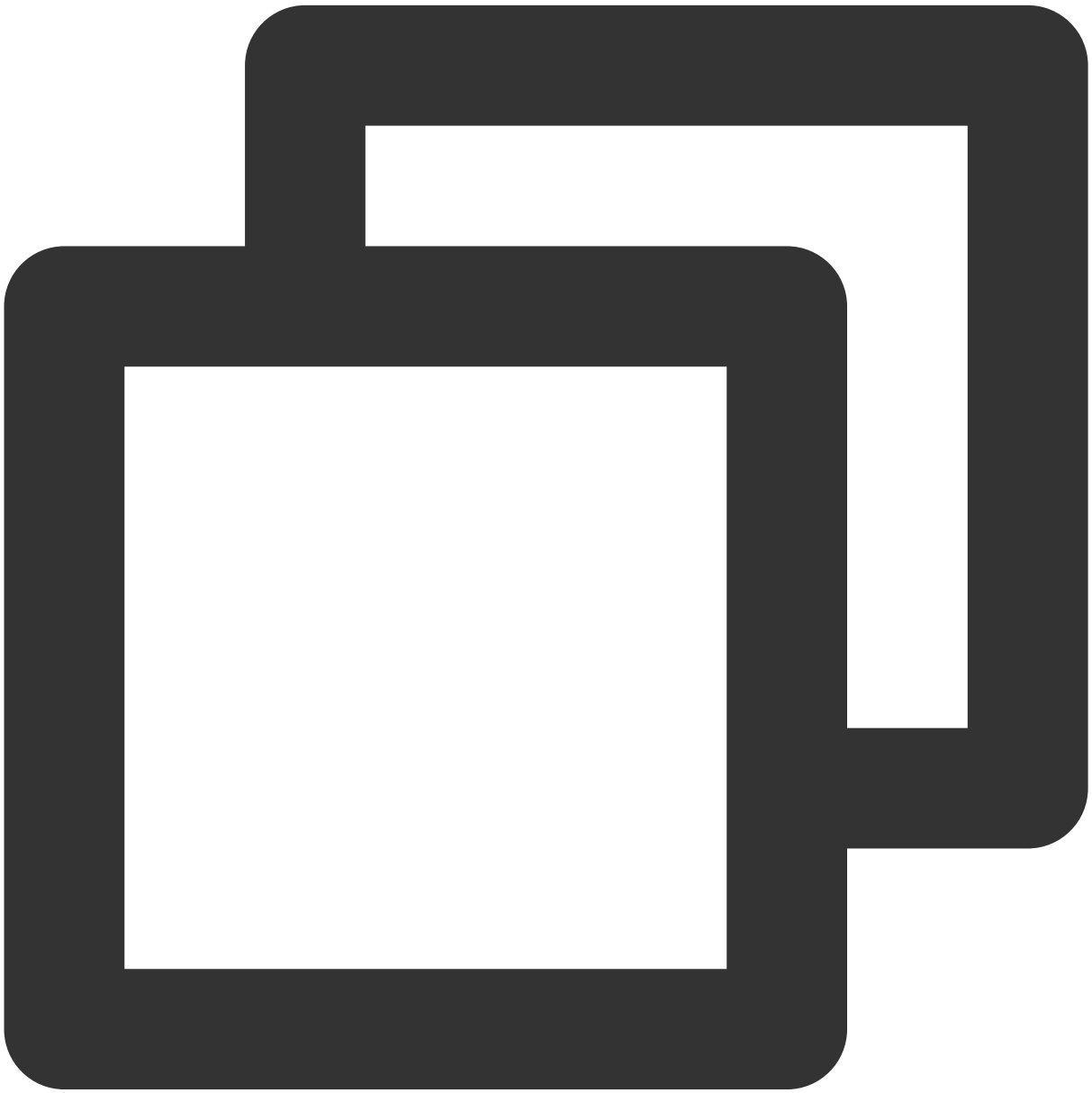
Get the total number of pages



```
/*
* @return: number
*/
let totalPages = await demo.PPTApplication().ActivePresentation.Slides.Count
```

Get the current page

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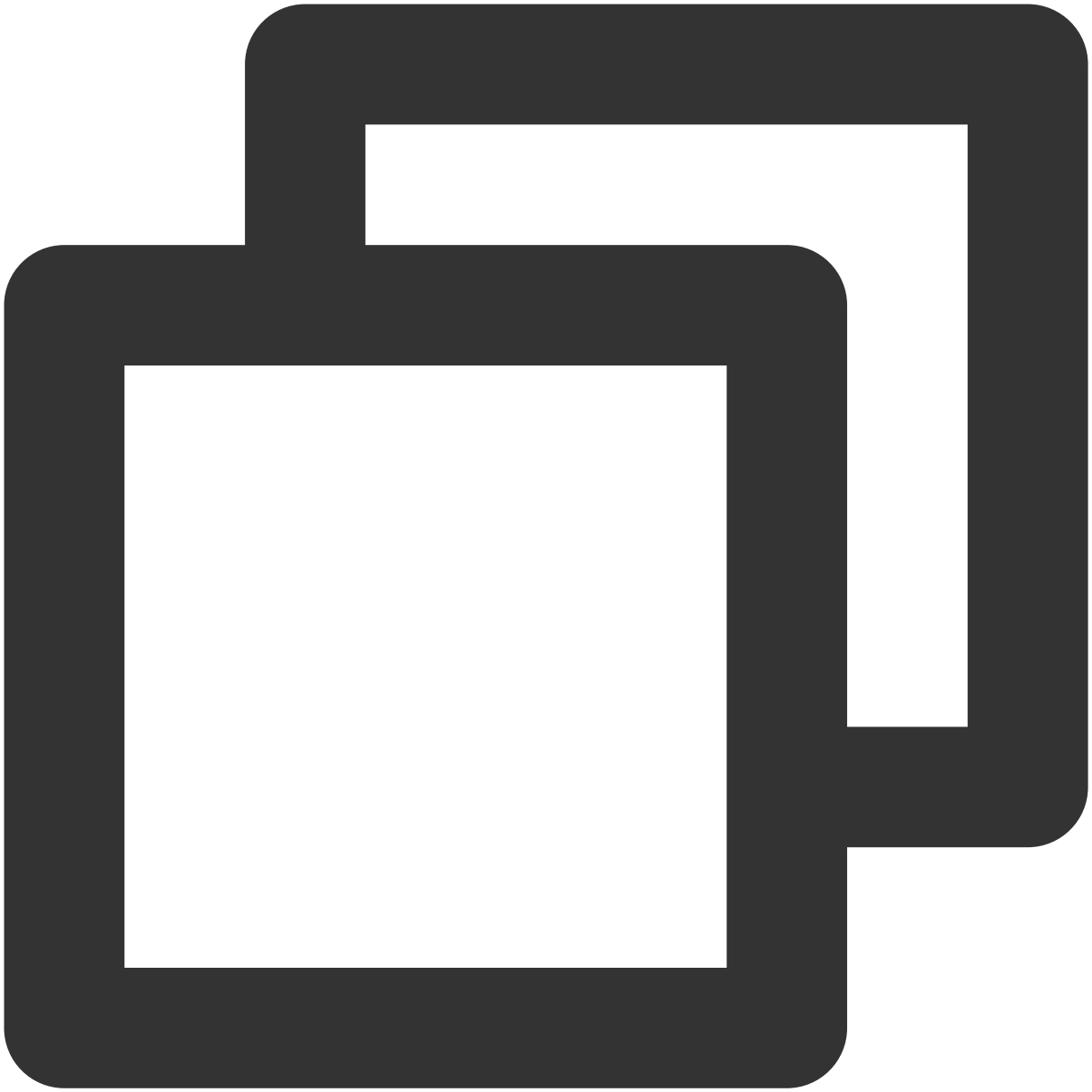

```
/*
* @return: number
*/
let totalPages = await demo.PPTApplication().ActivePresentation.SlideShowWindow.V
```

Go to the specified page

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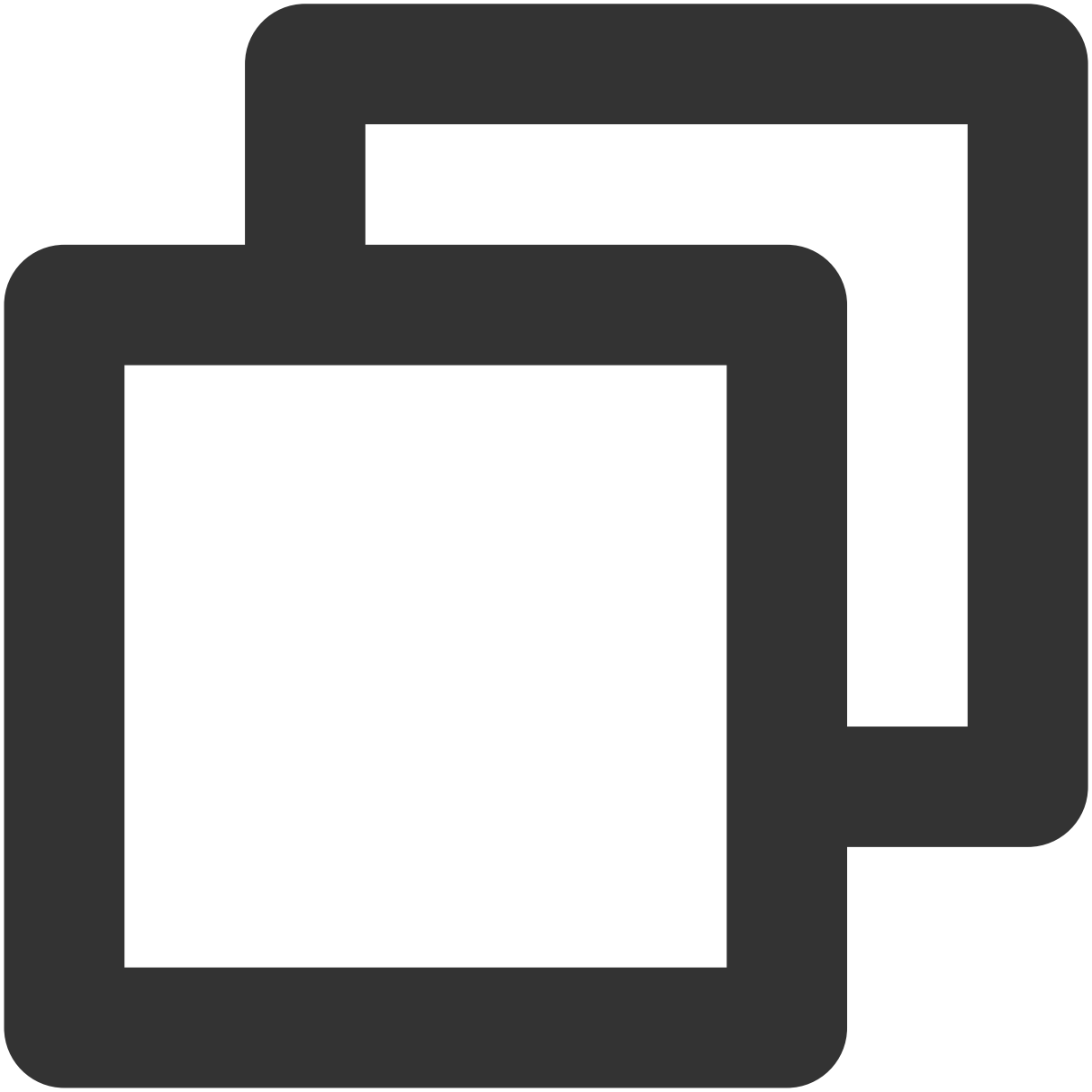

```
/*
* @param: number
*/
await demo.PPTApplication().ActivePresentation.SlideShowWindow.View.GotoSlide(3)
```

Start a slide show

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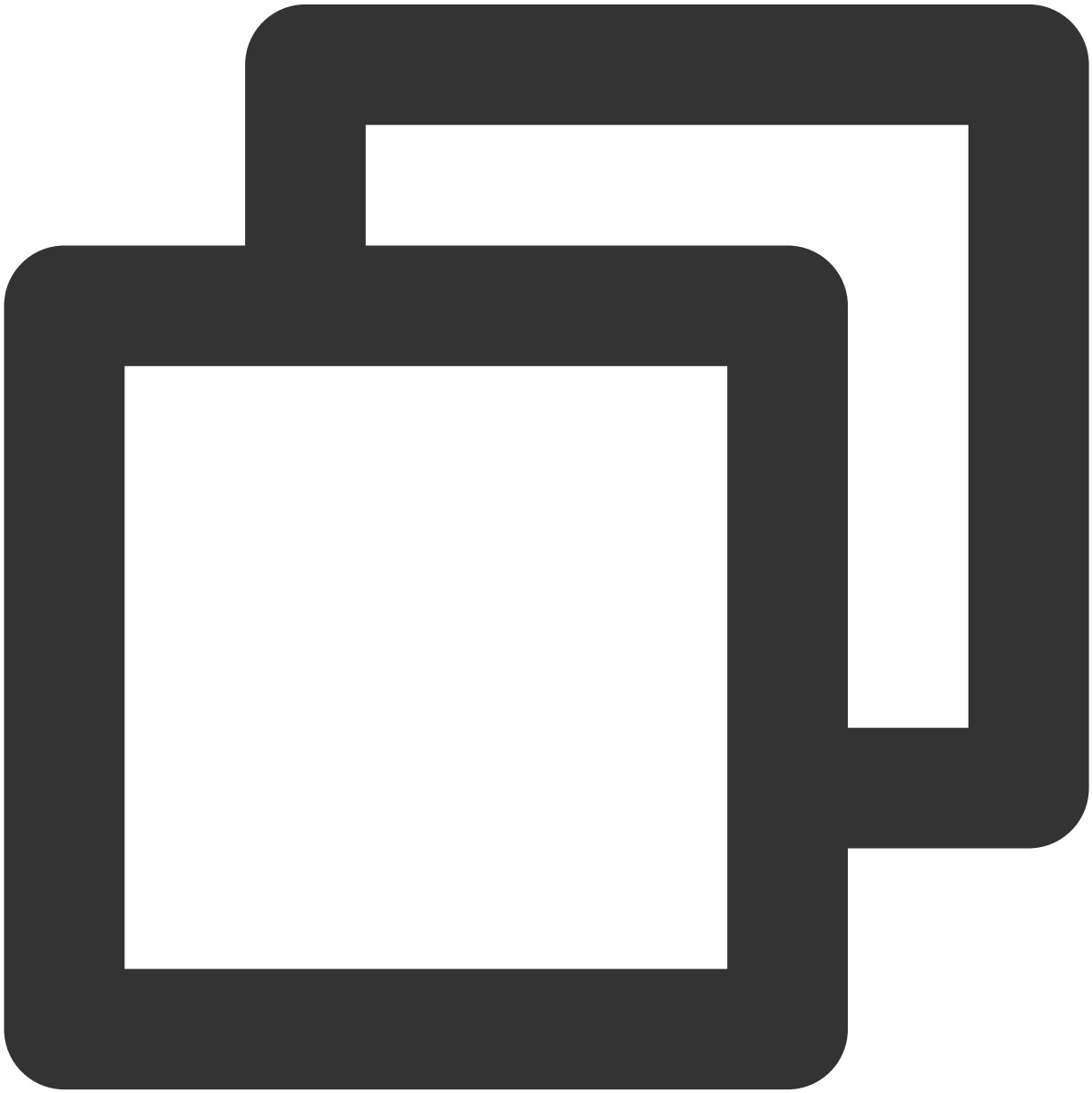

```
await demo.PPTApplication().ActivePresentation.SlideShowSettings.Run()
```

Exit the slide show

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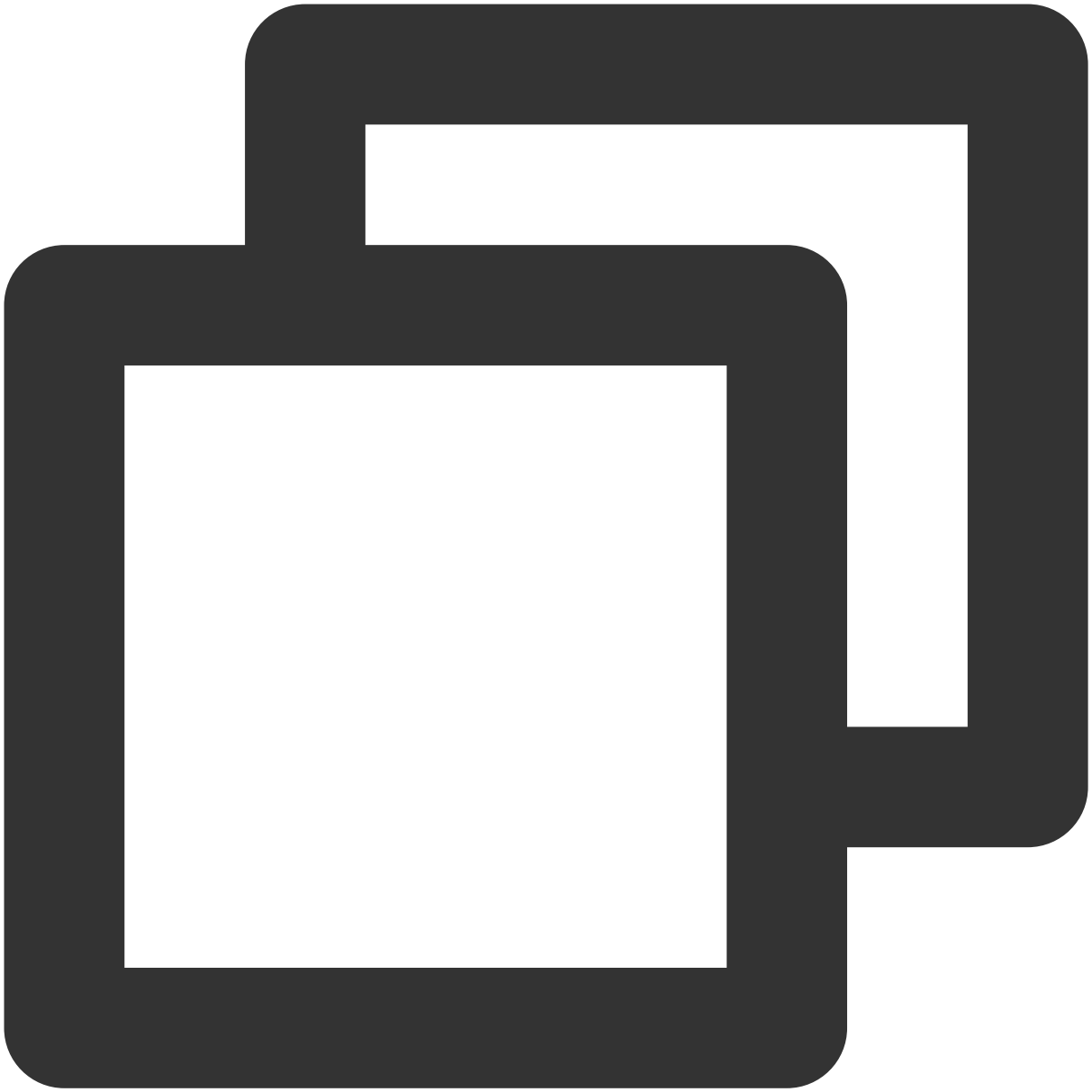

```
await demo.PPTApplication().ActivePresentation.SlideShowWindow.View.Exit()
```

Play the next animation

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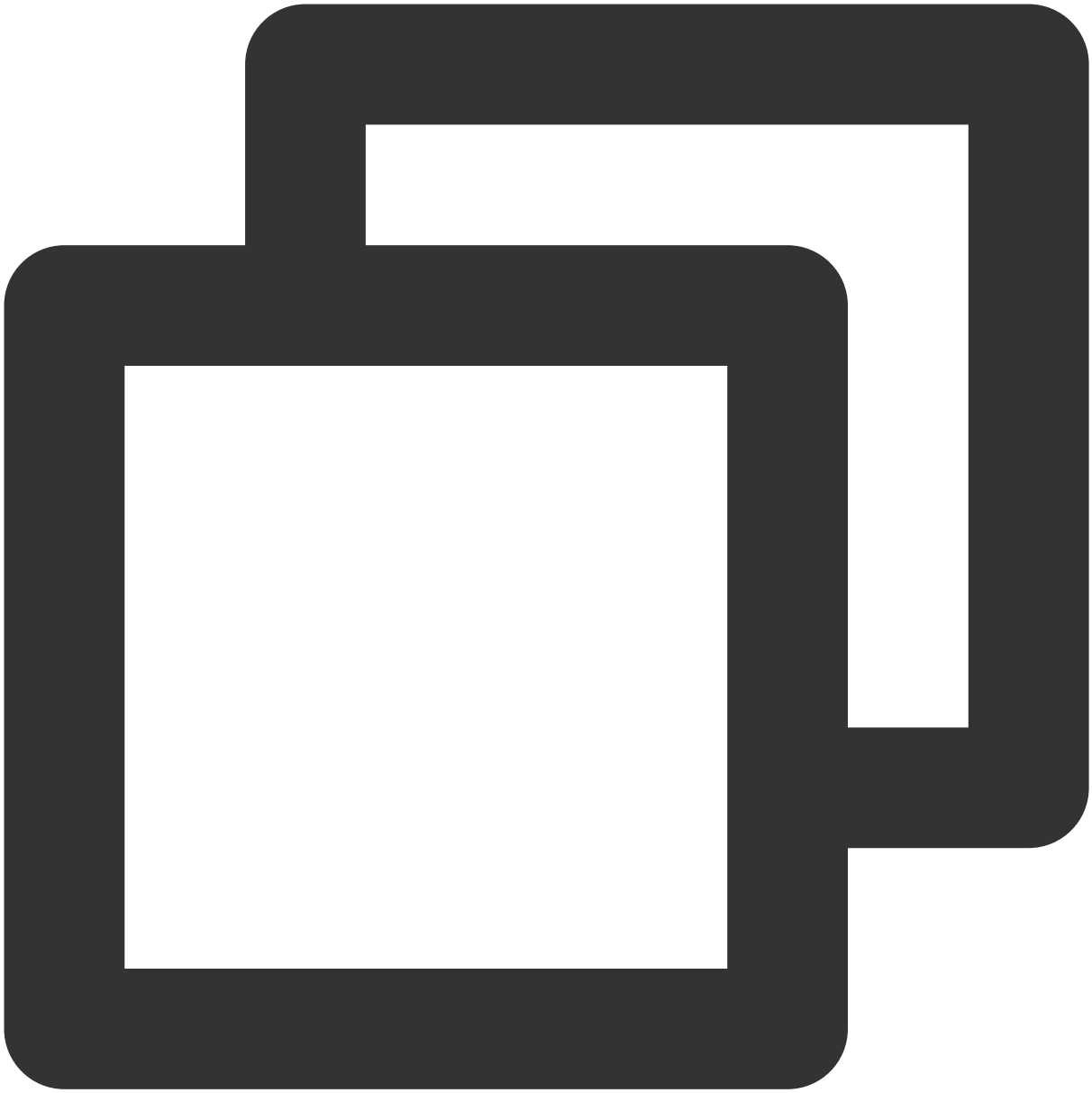

```
await demo.PPTApplication().ActivePresentation.SlideShowWindow.View.GotoNextClick
```

Play the previous animation

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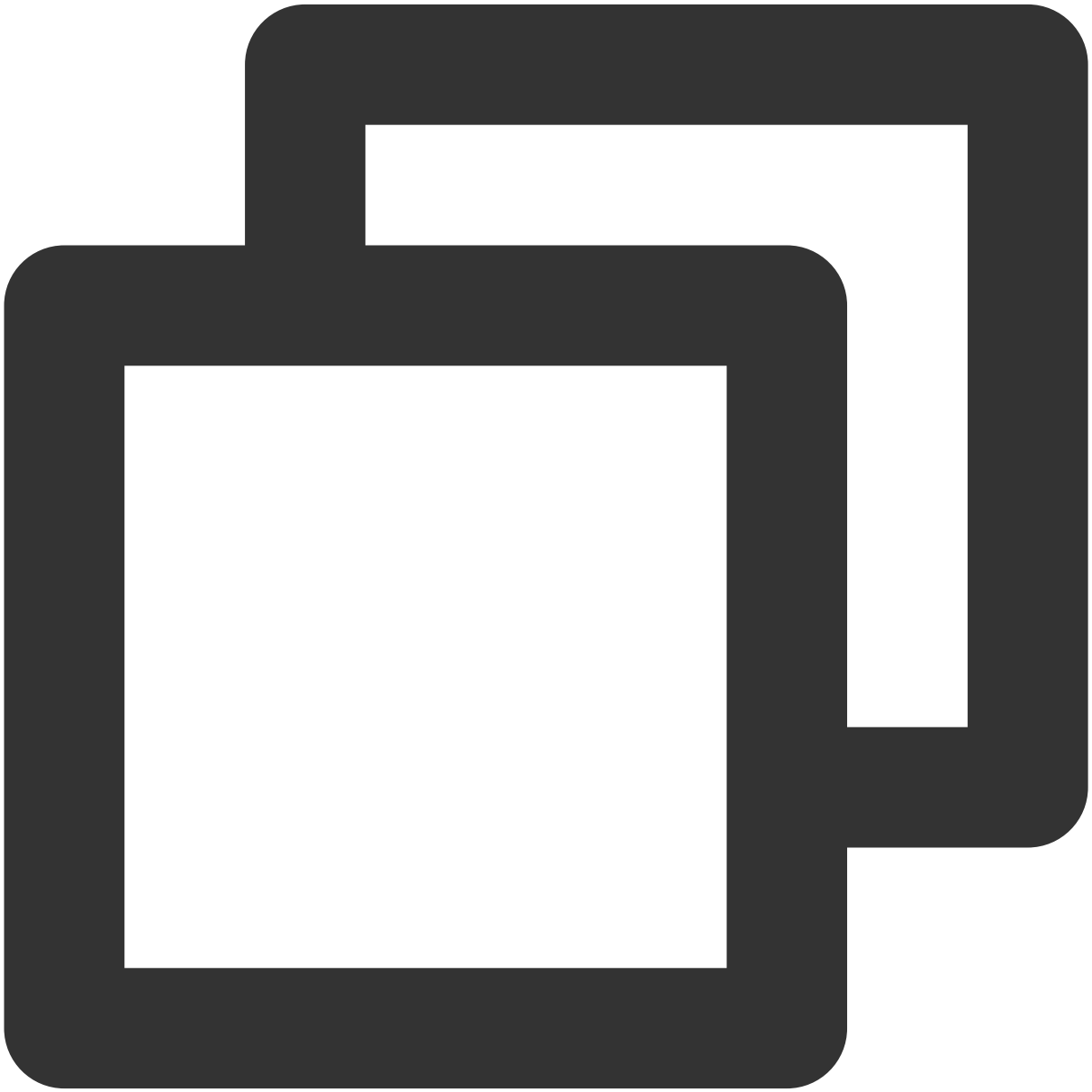

```
await demo.PPTApplication().ActivePresentation.SlideShowWindow.View.GotoPreClick(
```

Get the play status

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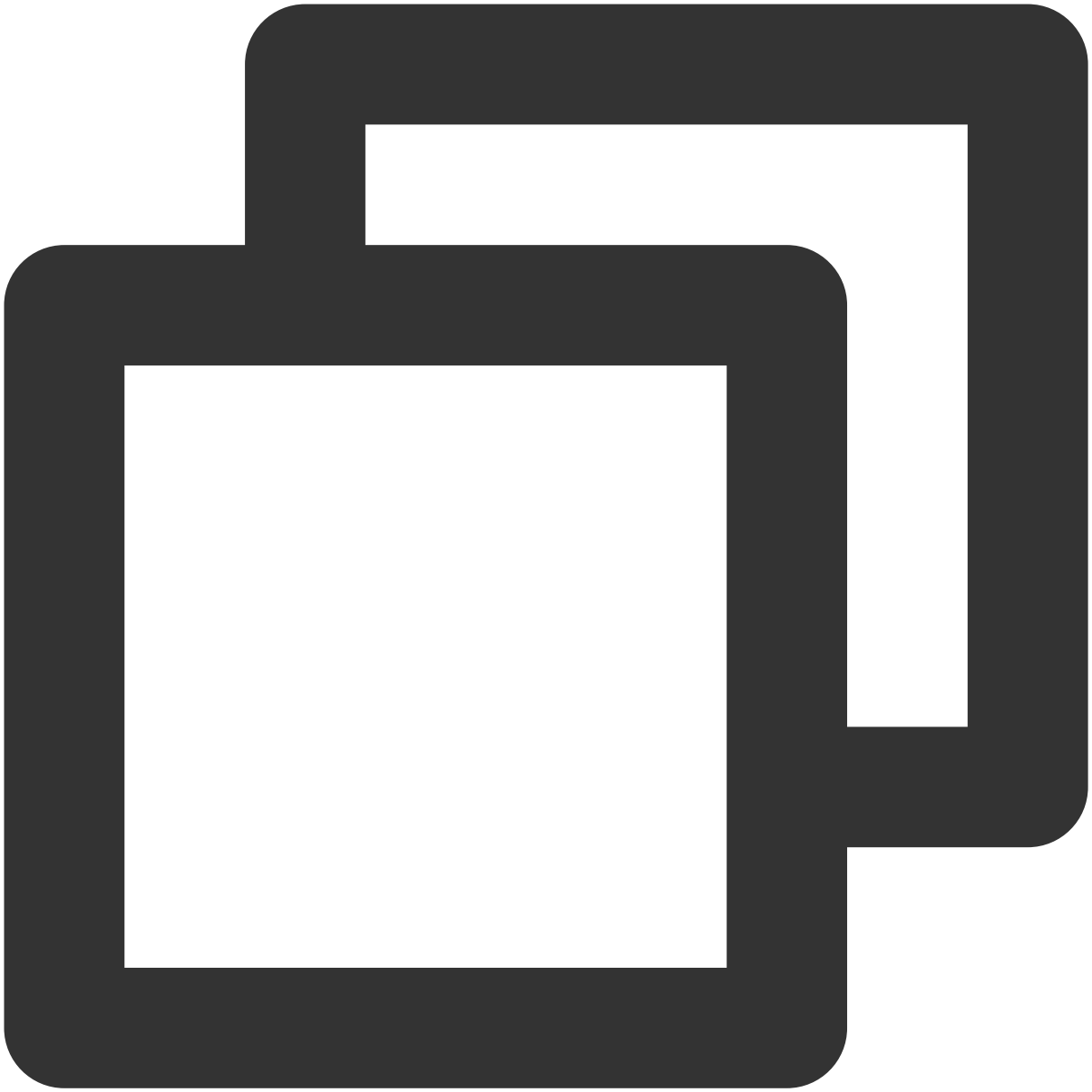

```
/*
* @return: string ('preview' | 'play')
*/
let currentState = await demo.PPTApplication().ActivePresentation.SlideShowWindow
```

Zoom the view

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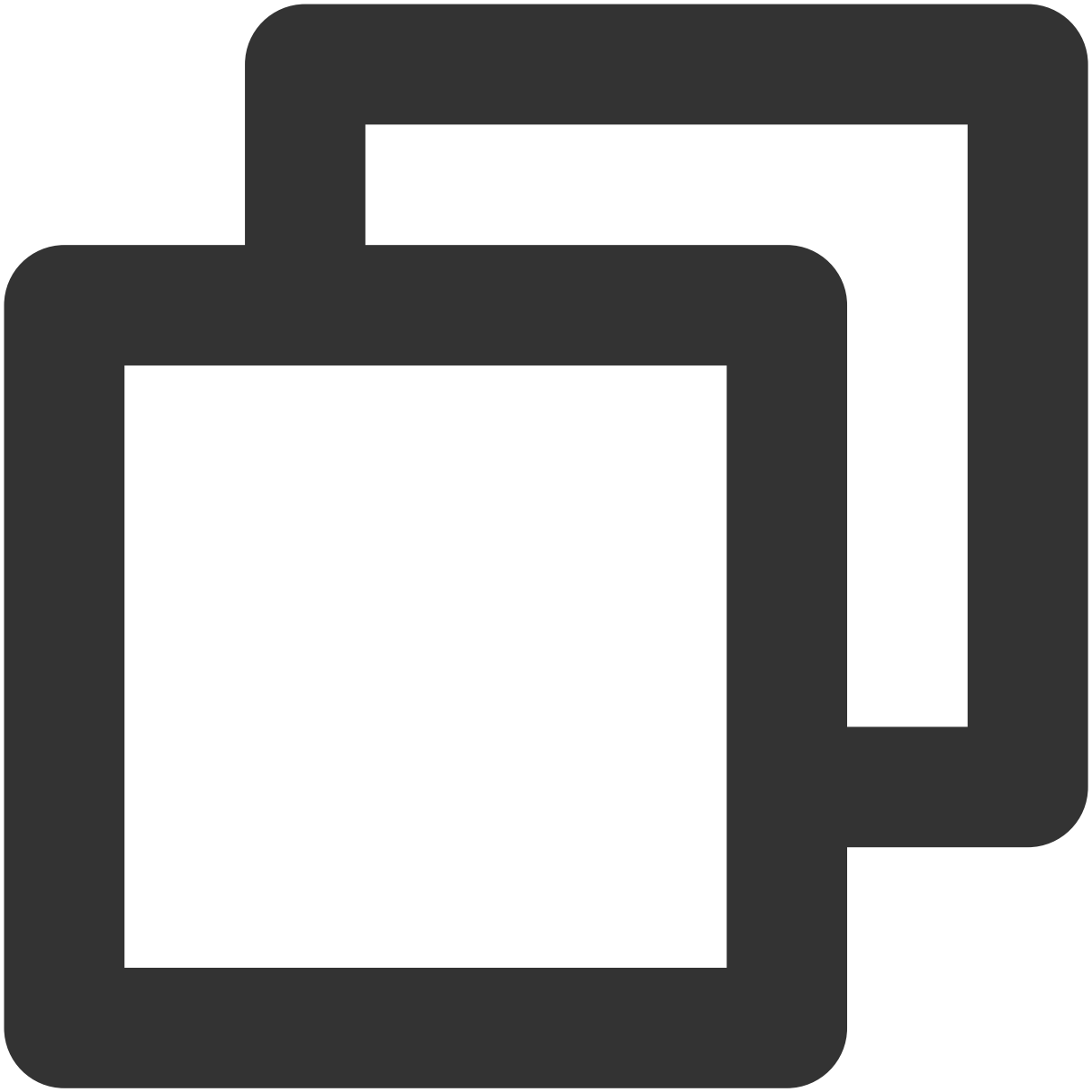

```
/*
* @return: number
*/
await demo.PPTApplication().ActivePresentation.View.Zoom      // Read the view zo
/*
* @param : 1 <= number <= 400 (The zoom level is between 1% and 400%.)
*/
demo.PPTApplication().ActivePresentation.View.Zoom = 100      // Set the view zoo
```

PDF file

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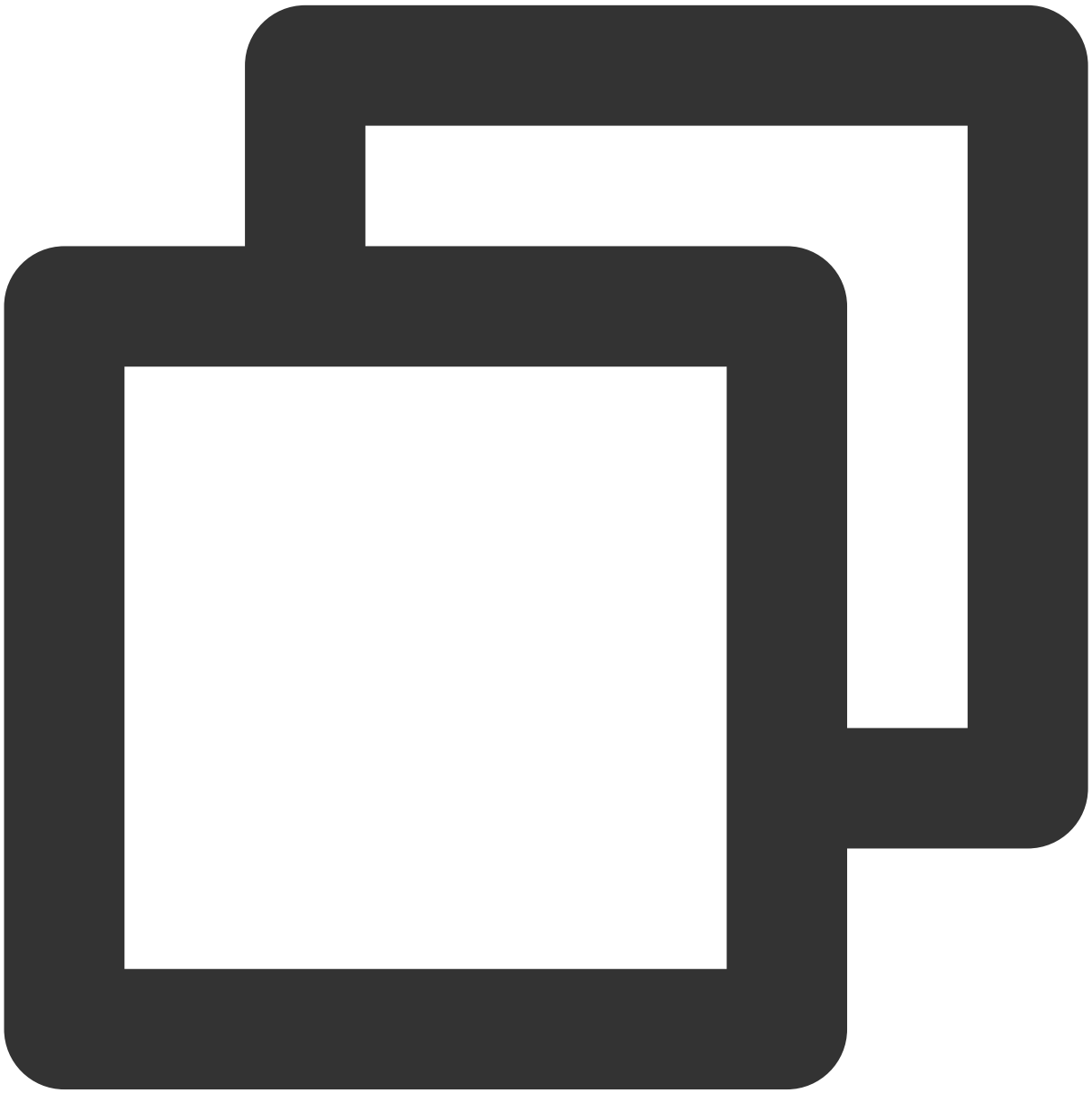
Get the total number of pages



```
/*
* @return: number
*/
let totalPages = await demo.PDFApplication().ActivePDF.PagesCount
```

Get the current page

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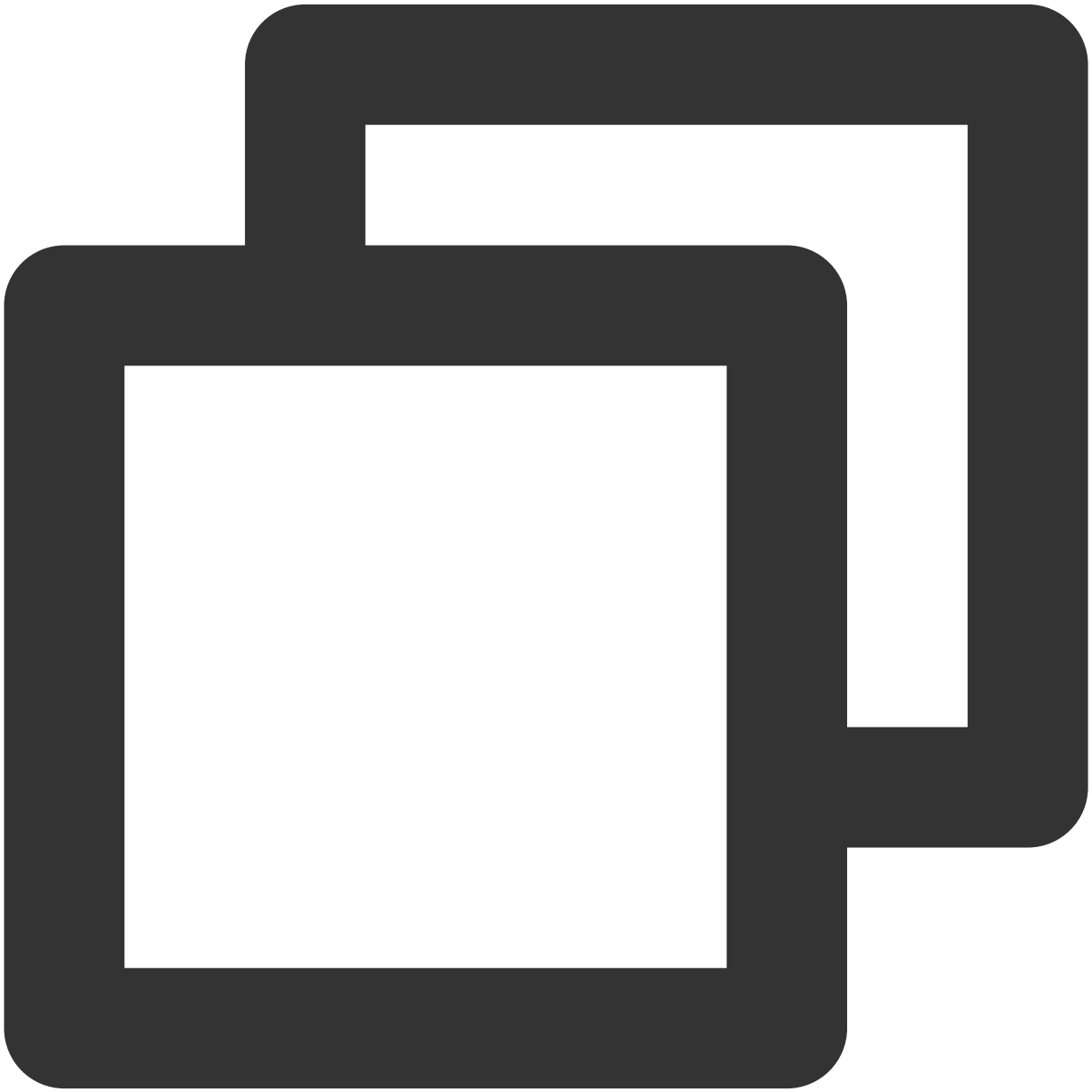

```
/*
* @return: number
*/
let totalPages = await demo.PDFApplication().ActivePDF.CurrentPage
```

Go to the specified page

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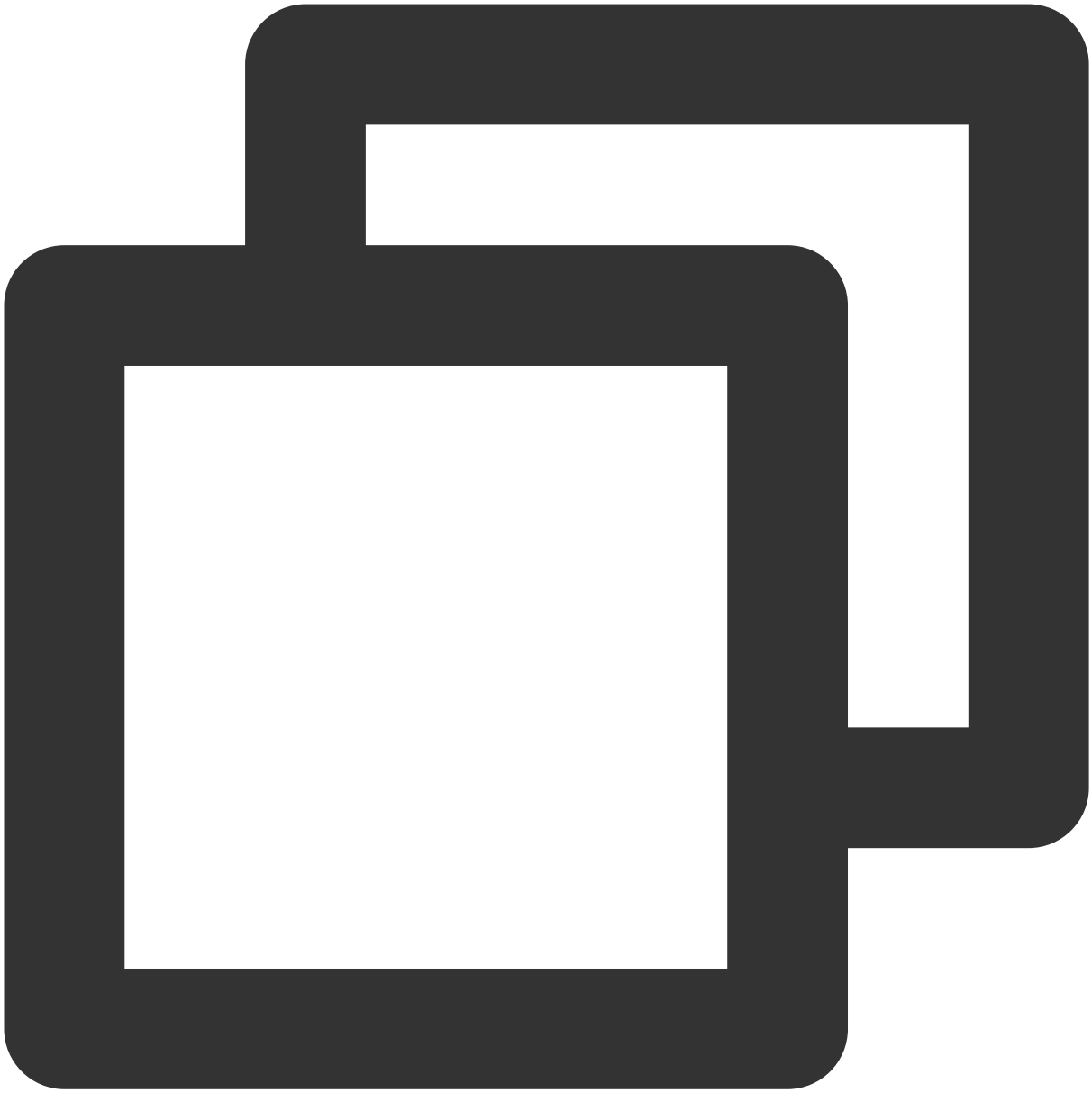

```
/*
* @param : { PageNum: number }
*/
let PageNum = 10
await demo.PDFApplication().ActivePDF.JumpToPage({PageNum})
```

Set the page rendering mode

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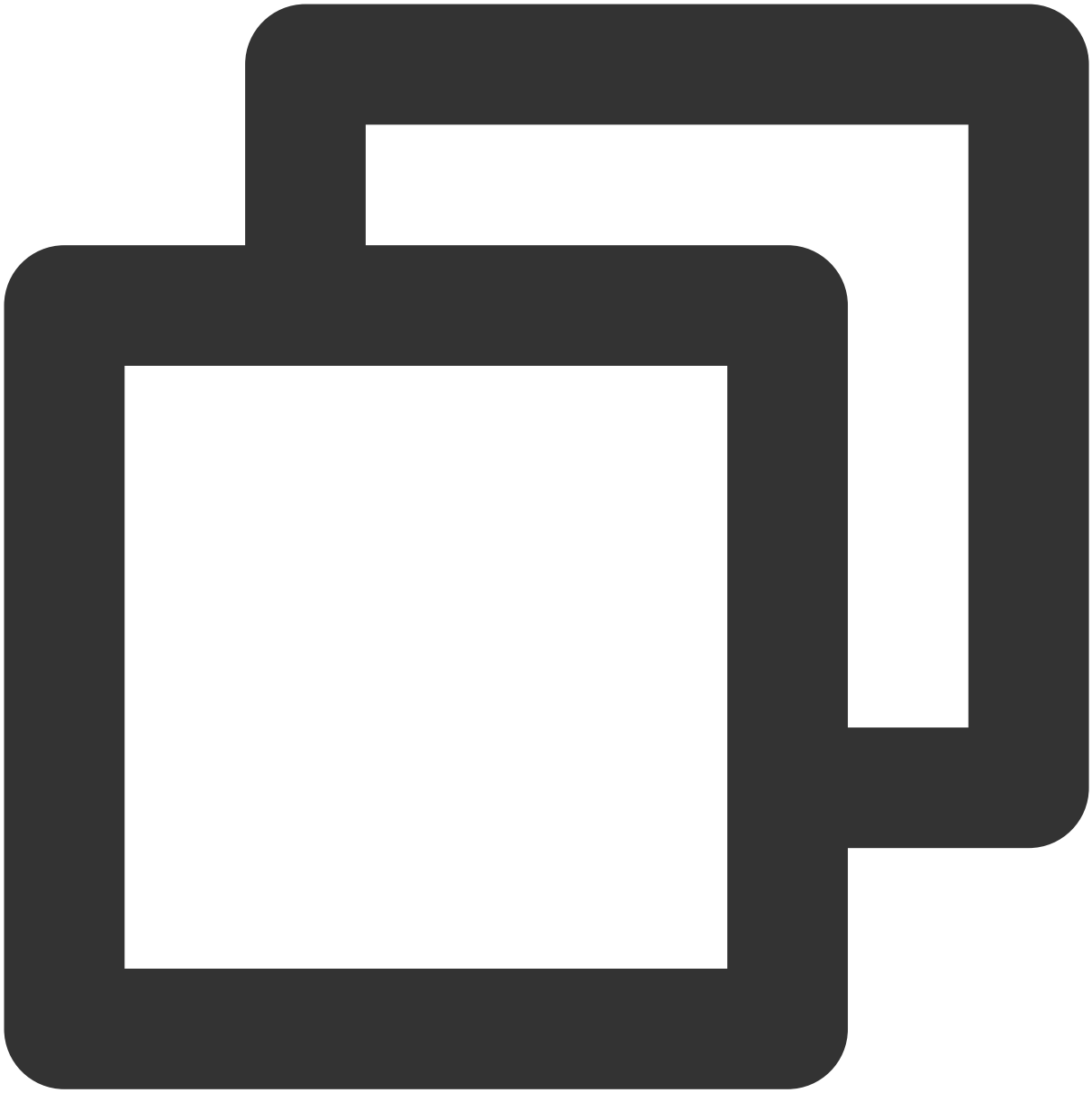

```
/*
* 1: Single-page mode
* 0: Multi-page mode
*/

demo.PDFApplication().ActivePDF.PageMode = 1    // Set the single-page mode.
```

Set whether to show the table of contents

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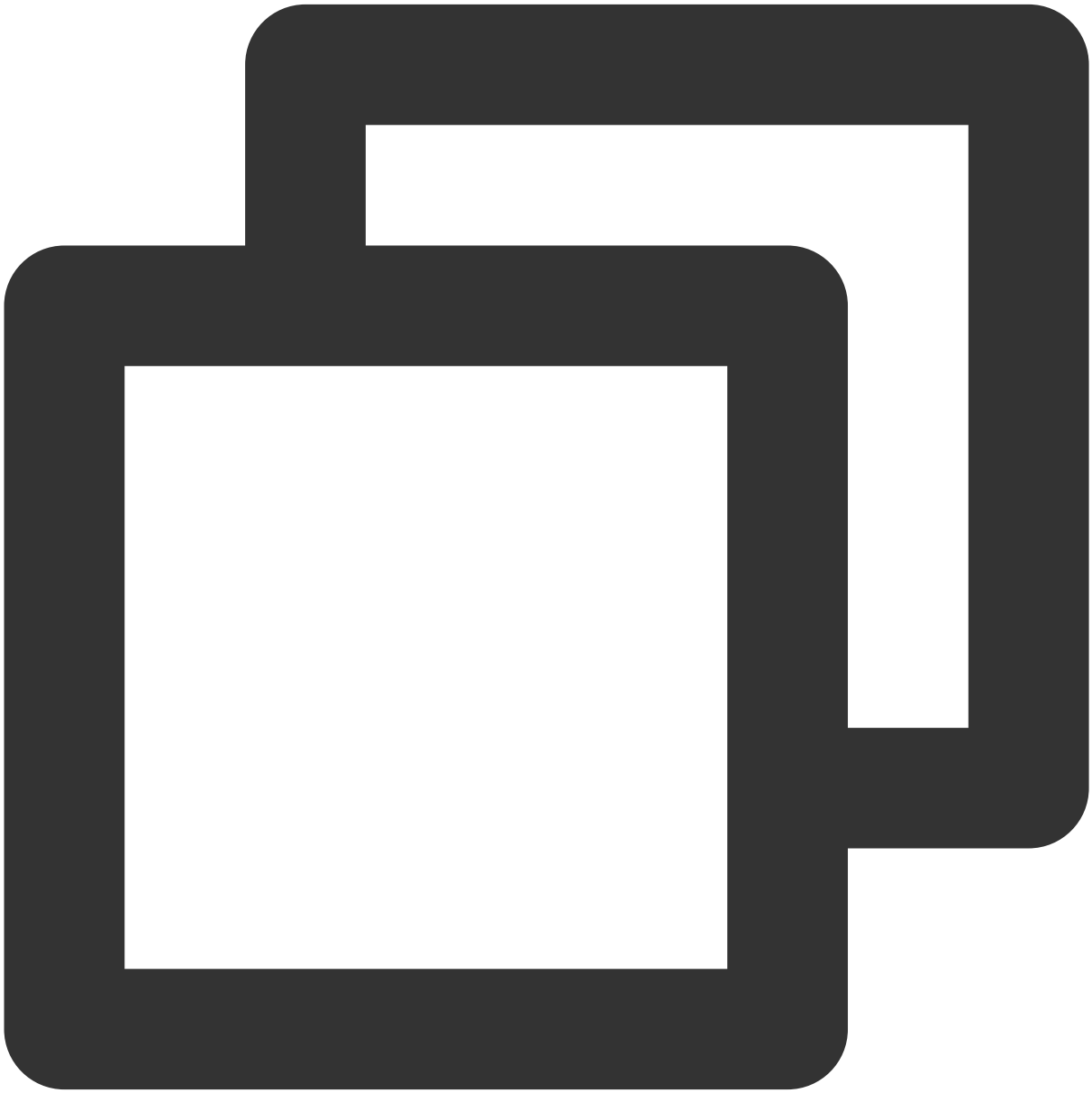

```
/*
* true: Show the table of contents
* false: Hide the table of contents
*/
demo.PDFApplication().ActivePDF.DocumentMap = true    // Show the table of conten
```

Zoom the view

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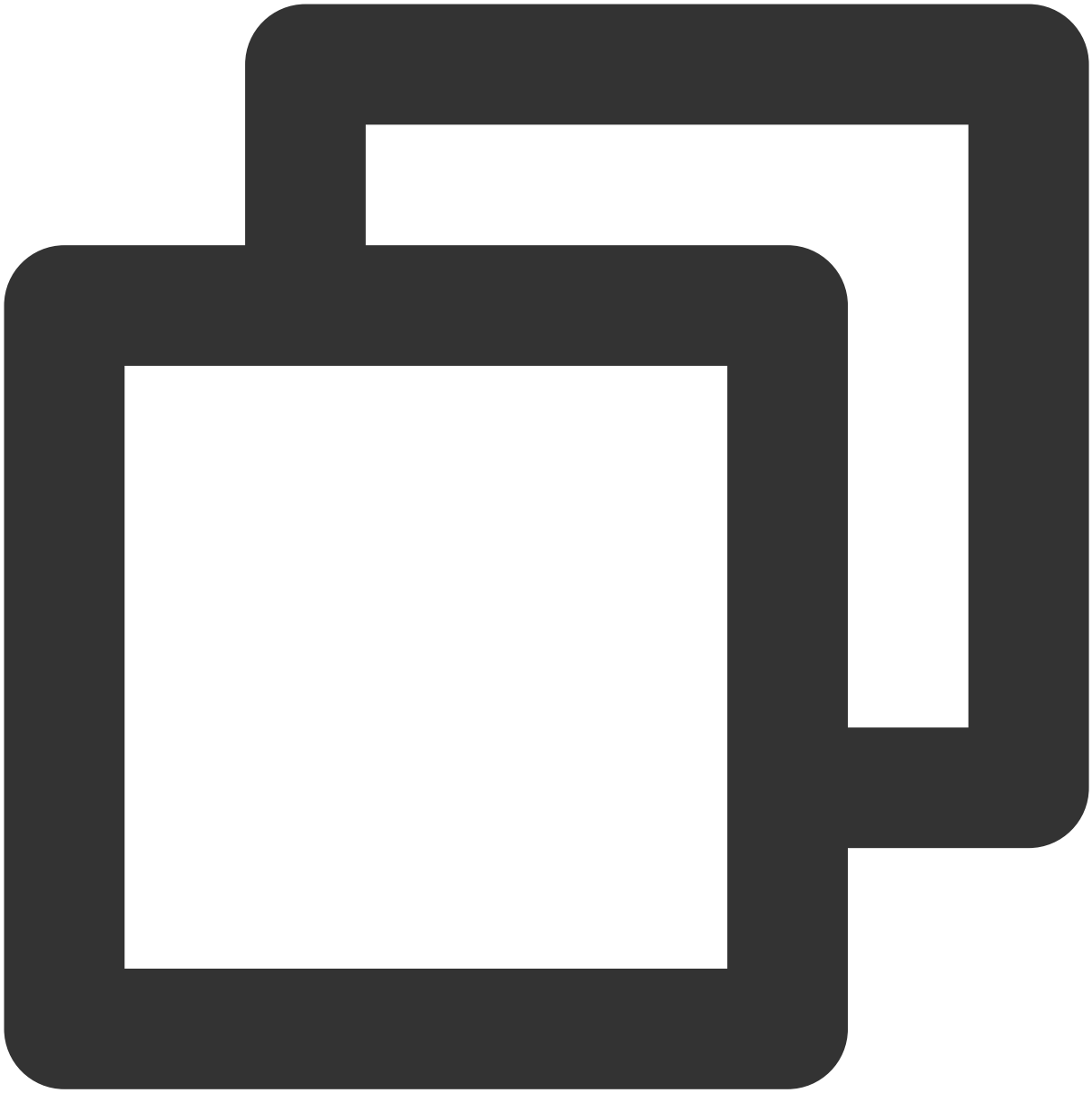

```
/*
* @return: number
*/
await demo.PDFApplication().ActivePDF.Zoom  // Read the view zoom level.
/*
* @param : 1 <= number <= 400 (The zoom level is between 1% and 400%.)
*/
demo.PDFApplication().ActivePDF.Zoom = 100  // Set the view zoom level.
```

Listen on events

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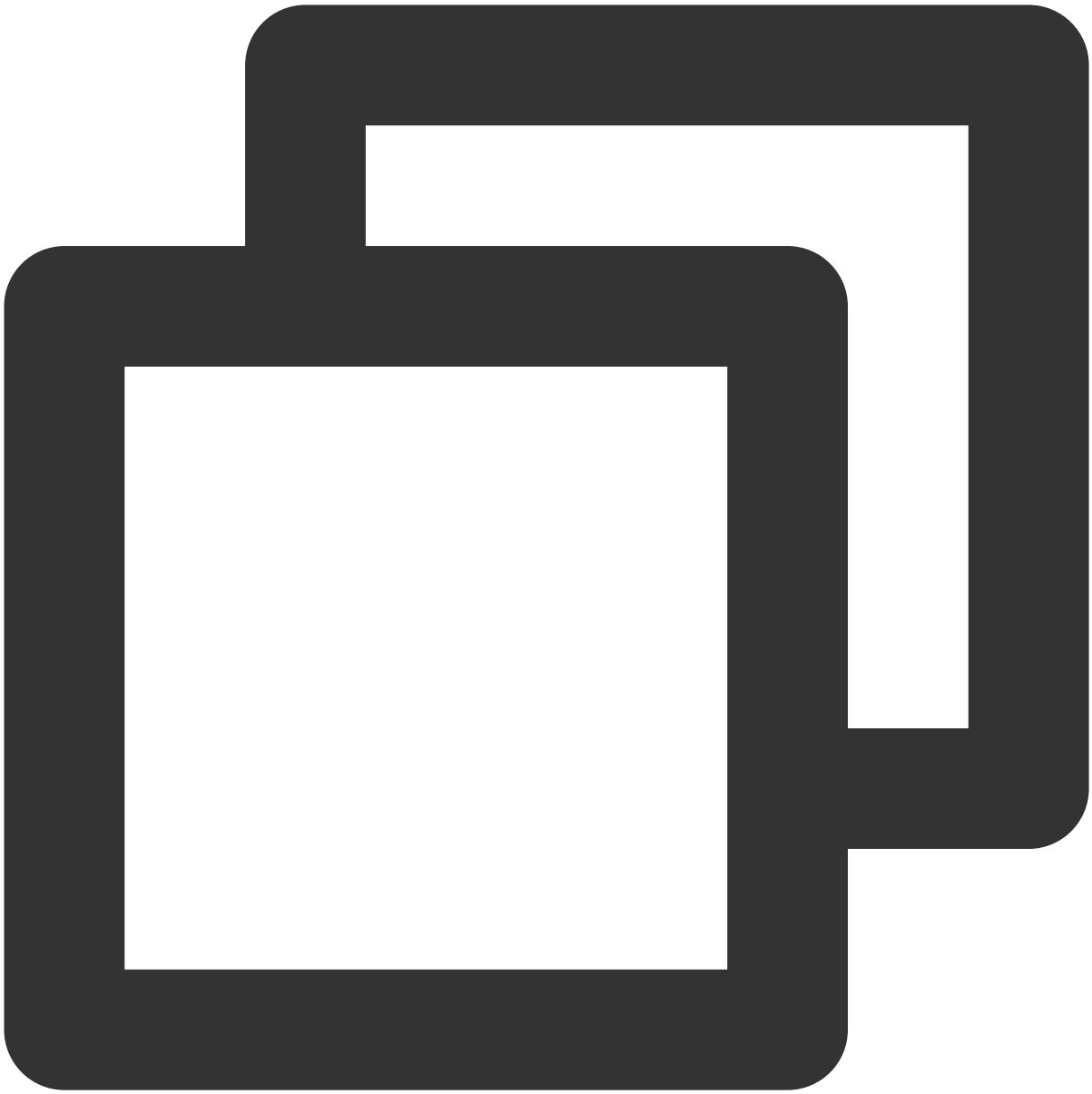
You can use the `on` method of the instance to listen on events.



```
demo.on('Event name', function(data) {
    // do something...
})
```

Event	Description
fileOpen	The file was opened successfully or failed to be opened.
error	An error occurred, and an error code was returned.

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fileStatus	The file was saved, and a `status` value was returned. Valid values: `0` (the file had no updates); `1` (the version was saved successfully); `2` (the file was empty and couldn't be saved); `3` (the space was full); `4` (the file was being saved); `5` (the file failed to be saved); `6` (the file updates were being saved; this status will be triggered when the file content is modified); `7` (the change to the file content was saved successfully).

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Supported Fonts and Animations

Last updated：2024-06-12 15:27:03

Overview

The **file-to-HTML conversion feature** supports previewing multiple fonts and animation effects in presentation files as listed below:

Note:

The actual preview effect during file-to-HTML conversion may vary by file format.

Supported Fonts

The file preview feature supports the following fonts, some of which are **available for Word files** only. Unsupported fonts will be replaced with similar fonts when displayed, so the preview effect may differ from the local display.

Fonts in Simplified Chinese and Traditional Chinese

For Word files only

Font	Font	Font
YouYuan	STXingkai	FZYaoTi
NSimSun	STFangsong	FZShuTi
Microsoft YaHei	STCaiyun	DengXian
Microsoft YaHei Light	SimHei	DengXian Light
TengXunTi W3	HYZhiKaiFan	PMingLiU-ExtB
TengXunTi W7	HYZhiCaoFan	MingLiU-ExtB
SimSun	HYZhaoKaiFan	MingLiU_HKSCS-ExtB
LiSu	HYWangXingFan	Microsoft YaHei UI
KaiTi	HYTangLiFan	Microsoft YaHei UI Light
STZhongsong	HYOuXingFan	Microsoft JhengHei UI
STXinwei	HYLuXingFan	Microsoft JhengHei UI Light

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STHeiti Light	HYLiuKaiFan	Microsoft JhengHei
STSong	HYHengFangBeiFan	Microsoft JhengHei Light
STLiti	HYChuKaiFan	Adobe SimSun Std
STKaiti	HYCaoLiFan	-
STHupo	FangSong	-

For all file types

Font	Font
HYZhongHei KW	HYKaiTi KW
HYZhongDengXian KW	HYJunHei KW 55J
HYShuSongEr KW	HYJunHei KW 85J
HYQiHei KW 85S	HYFangSong KW
HYQiHei KW 55S	-

Fonts in other languages

For Word files only

Font	Font	Font
Agency FB	Gadugi	Palatino Linotype
Algerian	Garamond	Papyrus
Arial Black	Gigi	Parchment
Arial Narrow	Gill Sans MT	Perpetua
Arial Rounded MT Bold	Gill Sans MT Condensed	Perpetua Titling MT
Bahnschrift	Gill Sans MT Ext Condensed Bold	Playbill
Baskerville Old Face	Gill Sans Ultra Bold	Poor Richard
Bauhaus 93	Gill Sans Ultra Bold Condensed	Pristina

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Bell MT	Gloucester MT Extra Condensed	Rage Italic
Berlin Sans FB	Goudy Old Style	Raleway
Berlin Sans FB Demi	Goudy Stout	Raleway Black
Bernard MT Condensed	Haettenschweiler	Raleway ExtraBold
Blackadder ITC	Harlow Solid Italic	Raleway ExtraLight
Bodoni MT	Harrington	Raleway Light
Bodoni MT Black	High Tower Text	Raleway Medium
Bodoni MT Condensed	HoloLens MDL2 Assets	Raleway SemiBold
Bodoni MT Poster Compressed	Impact	Raleway Thin
Book Antiqua	Imprint MT Shadow	Ravie
Bookman Old Style	Informal Roman	Roboto
Bookshelf Symbol 7	Ink Free	Roboto Black
Bradley Hand ITC	Javanese Text	Roboto Light
Britannic Bold	Jokerman	Roboto Medium
Broadway	Juice ITC	Roboto Thin
Brush Script MT	Kristen ITC	Roboto Slab
C059	Kunstler Script	Rockwell
Calibri	Leelawadee	Rockwell Condensed
Calibri Light	Leelawadee UI	Rockwell Extra Bold
Californian FB	Leelawadee UI Semilight	Script MT Bold
Calisto MT	Lucida Bright	Segoe MDL2 Assets
Cambria	Lucida Calligraphy	Segoe Print
Cambria Math	Lucida Console	Segoe Script

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Candara	Lucida Fax	Segoe UI
Candara Light	Lucida Handwriting	Segoe UI Black
Castellar	Lucida Sans	Segoe UI Light
Centaur	Lucida Sans Typewriter	Segoe UI Semibold
Century	Lucida Sans Unicode	Segoe UI Semilight
Century Gothic	Magneto	Segoe UI Emoji
Century Schoolbook	Maiandra GD	Segoe UI Historic
Chiller	Malgun Gothic (맑은 고딕)	Segoe UI Symbol
Colonna MT	Malgun Gothic Semilight (맑은 고딕 Semilight)	Showcard Gothic
Consolas	Matura MT Script Capitals	SimSun-ExtB
Constantia	Merriweather	Sitka Banner
Cooper Black	Merriweather Black	Sitka Display
Copperplate Gothic Bold	Merriweather Light	Sitka Heading
Copperplate Gothic Light	Microsoft Himalaya	Sitka Small
Corbel	Microsoft New Tai Lue	Sitka Subheading
Corbel Light	Microsoft PhagsPa	Sitka Text
Courier	Microsoft Sans Serif	Small Fonts
Curlz MT	Microsoft Tai Le	Snap ITC
D050000L	Microsoft Uighur	Standard Symbols PS
DejaVu Sans	Microsoft Yi Baiti	Stencil
DejaVu Sans Condensed	Mistral	Sylfaen
DejaVu Sans Light	Modern No. 20	Symbol
Dubai	Mongolian Baiti	Symbol Tiger
Dubai Light	Monotype Corsiva	Symbol Tiger Expert

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Dubai Medium	MS Gothic (ＭＳ ゴシック)	System
Ebrima	MS Outlook	Tahoma
Edwardian Script ITC	MS Pgothic (ＭＳ Ｐゴシック)	Tempus Sans ITC
Elephant	MS Reference Sans Serif	TencentSans Korean W3 (텐센트체 W3)
Engravers MT	MS Reference Specialty	TencentSans Korean W7 (텐센트체 W7)
Eras Bold ITC	MS Sans Serif	Terminal
Eras Demi ITC	MS Serif	Tiger
Eras Light ITC	MS UI Gothic	Tiger Expert
Eras Medium ITC	MT Extra	Trebuchet MS
Euclid	MT Extra Tiger	Tw Cen MT
Euclid Extra	MV Boli	Tw Cen MT Condensed
Euclid Fraktur	Myanmar Text	Tw Cen MT Condensed Extra Bold
Euclid Math One	Niagara Engraved	URW Bookman
Euclid Math Two	Niagara Solid	URW Gothic
Euclid Symbol	Nimbus Mono PS	Viner Hand ITC
Felix Titling	Nimbus Roman	Vivaldi
Fences	Nimbus Sans	Vladimir Script
Fixedsys	Nimbus Sans Narrow	Wide Latin
Footlight MT Light	Nirmala UI	Wingdings
Forte	Nirmala UI Semilight	Wingdings 2
Franklin Gothic Book	OCR A Extended	Wingdings 3
Franklin Gothic Demi	Old English Text MT	Yu Gothic (游ゴシック)
Franklin Gothic Demi Cond	Onyx	Yu Gothic Light (游ゴシック Light)

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Franklin Gothic Heavy	Open Sans	Yu Gothic Medium (游ゴシック Medium)
Franklin Gothic Medium	Open Sans Extrabold	Yu Gothic UI
Franklin Gothic Medium Cond	Open Sans Light	Yu Gothic UI Light
Freestyle Script	Open Sans Semibold	Yu Gothic UI Semibold
French Script MT	P052	Yu Gothic UI Semilight
Gabriola	Palace Script MT	Z003

For all file types

Font	Font	Font
Arial	Noto Sans Gujarati UI	Noto Sans Shavian
Comic Sans MS	Noto Sans Gurmukhi	Noto Sans Sinhala
Courier New	Noto Sans Gurmukhi UI	Noto Sans Sinhala UI
Georgia	Noto Sans Hanunoo	Noto Sans Sundanese
Kingsoft Confetti	Noto Sans Hebrew	Noto Sans Syloti Nagri
Kingsoft Extra	Noto Sans Imperial Aramaic (Noto Sans ImpAramaic)	Noto Sans Symbols
Kingsoft Mark	Noto Sans Inscriptional Pahlavi (Noto Sans InsPahlavi)	Noto Sans Symbols2
Kingsoft Math	Noto Sans Inscriptional Parthian (Noto Sans InsParthi)	Noto Sans Syriac Eastern
Kingsoft Sign	Noto Sans Javanese	Noto Sans Syriac Estrangela
Kingsoft Stress	Noto Sans Kaithi	Noto Sans Syriac Western
Noto Emoji	Noto Sans Kannada	Noto Sans Tagalog
Noto Kufi Arabic	Noto Sans Kannada UI	Noto Sans Tagbanwa
Noto Mono	Noto Sans Kayah Li	Noto Sans Tai Le

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Noto Naskh Arabic	Noto Sans Kharoshthi	Noto Sans Tai Tham
Noto Naskh Arabic UI	Noto Sans Khmer	Noto Sans Tai Viet
Noto Nastaliq Urdu	Noto Sans Khmer UI	Noto Sans Tamil
Noto Sans	Noto Sans Lao	Noto Sans Tamil UI
Noto Sans Adlam	Noto Sans Lao UI	Noto Sans Telugu
Noto Sans Adlam Unjoined	Noto Sans Lepcha	Noto Sans Telugu UI
Noto Sans Anatolian Hieroglyphs (Noto Sans AnatoHiero)	Noto Sans Limbu	Noto Sans Thaana
Noto Sans Arabic	Noto Sans Linear B	Noto Sans Thai
Noto Sans Arabic UI	Noto Sans Lisu	Noto Sans Thai UI
Noto Sans Armenian	Noto Sans Lycian	Noto Sans Tibetan
Noto Sans Avestan	Noto Sans Lydian	Noto Sans Tifinagh
Noto Sans Balinese	Noto Sans Malayalam	Noto Sans Ugaritic
Noto Sans Bamum	Noto Sans Malayalam UI	Noto Sans Vai
Noto Sans Batak	Noto Sans Mandaic	Noto Sans Yi
Noto Sans Bengali	Noto Sans Meetei Mayek	Noto Serif
Noto Sans Bengali UI	Noto Sans Mongolian	Noto Serif Armenian
Noto Sans Brahmi	Noto Sans Mono	Noto Serif Bengali
Noto Sans Buginese	Noto Sans Myanmar	Noto Serif CJK SC
Noto Sans Buhid	Noto Sans Myanmar UI	Noto Serif CJK TC
Noto Sans Canadian Aboriginal	Noto Sans New Tai Lue	Noto Serif Devanagari
Noto Sans Carian	Noto Sans Nko (Noto Sans N'Ko)	Noto Serif Display (Noto Serif Disp)
Noto Sans Chakma	Noto Sans Ogham	Noto Serif Ethiopic
Noto Sans Cham	Noto Sans Ol Chiki	Noto Serif Georgian
Noto Sans Cherokee	Noto Sans Old Italic	Noto Serif Gujarati

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Noto Sans Coptic	Noto Sans Old Persian	Noto Serif Hebrew
Noto Sans Cuneiform	Noto Sans Old South Arabian (Noto Sans OldSouArab)	Noto Serif Kannada
Noto Sans Cypriot	Noto Sans Old Turkic	Noto Serif Khmer
Noto Sans Deseret	Noto Sans Oriya	Noto Serif Lao
Noto Sans Devanagari	Noto Sans Oriya UI	Noto Serif Malayalam
Noto Sans Devanagari UI	Noto Sans Osage	Noto Serif Myanmar
Noto Sans Display (Noto Sans Disp)	Noto Sans Osmanya	Noto Serif Sinhala
Noto Sans Egyptian Hieroglyphs (Noto Sans EgyptHiero)	Noto Sans Phags Pa	Noto Serif Tamil
Noto Sans Ethiopic	Noto Sans Phoenician	Noto Serif Telugu
Noto Sans Georgian	Noto Sans Rejang	Noto Serif Thai
Noto Sans Glagolitic	Noto Sans Runic	Times New Roman
Noto Sans Gothic	Noto Sans Samaritan	Verdana
Noto Sans Gujarati	Noto Sans Saurashtra	Webdings

Supported Animations in Presentation Files

Presentation file formats include PPTX, PPT, POT, POTX, PPS, PPSX, DPS, DPT, PPTM, POTM, and PPSM. Except **Random Effects**, all animations in the following table support the adjustment of **Start**, **Speed**, **Repeat**, and **Delay**.

Entrance and exit animations

Animation	Attribute	Animation	Attribute	Animation	Attribute
Blinds	With directions supported	Circle	With directions supported	Zoom In	Unsupported
Wipe	With directions supported	Fade	Unsupported	Boomerang	Unsupported
Appear	Unsupported	Gradient boomerang	Unsupported	Float	Unsupported

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Fly In, Fly Out	With directions supported	Gradient zoom	Unsupported	Light Speed	Unsupported
Box	With directions supported	Unfold - Subtle	Unsupported	Glide	Unsupported
Crawl In, Crawl Out	With directions supported	Grow and Turn	Unsupported	Whip	Unsupported
Strips	With directions supported	Boomerang	Unsupported	Swish	Unsupported
Diamond	With directions supported	Ease In, Ease Out	Unsupported	Flip	Unsupported
Wheel	With spokes supported	Ascend	Unsupported	Spiral In, Spiral Out	Unsupported
Split	With directions supported	Stretch	With directions supported	Curve Up	Unsupported
Checkerboard	With directions supported	Rise Up	Unsupported	Sling	Unsupported
Peek In	With directions supported	Zoom	With zoom supported	Pinwheel	Unsupported
Flash Once	Unsupported	Descend	Unsupported	Thread	Unsupported
Wedge	Unsupported	Compress	Unsupported	Swivel	With directions supported
Plus	With directions supported	Color Typewriter	Unsupported	Fold	Unsupported
Random Bars	With directions supported	Unfold - Moderate	Unsupported	Credits	Unsupported
Random Effects	Unsupported	Center Revolve	Unsupported	-	-
Dissolve In	Unsupported	Bounce	Unsupported	-	-

Emphasis animations

Animation	Attribute	Animation	Attribute

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Grow/Shrink	Size	Flicker	Unsupported
Fill Color	fill color	Color Mix	Color
Line Color	Line color	Bold Flash	Unsupported
Font Size	Font size	Darken	Unsupported
Font	Font	Underline	Unsupported
Font Color	Font color	Accent	Color
Font Style	Font style	Moderate	Unsupported
Transparency	Quantity	Grow With Color	Color
Spin	Quantity	Teeter	Unsupported
Subtle	Unsupported	Pulse	Color
Lighten	Unsupported	Shimmer	Unsupported
Complementary Color	Unsupported	Exciting	Unsupported
Complementary Color 2	Unsupported	Blast	Color
Desaturate	Unsupported	Wave	Unsupported
Color Wave	Color	Bold Reveal	Unsupported
Vertical Highlight	Color	Blink	Unsupported
Contrasting Color	Unsupported	Style Emphasis	Color

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Release Notes

Last updated：2024-06-12 15:27:03

v0.2.1

Download address: sdk-v0.2.1.zip

Supported COS v5 signature authentication

Supported token authentication and refresh

Supported listening on the video playback status in PPT files

v0.1.1

Download address: sdk-v0.1.1.zip

Supported online preview

Supported COS v4 signature authentication

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File Processing
Hash Calculation
Sync Request for Hash Calculation

Last updated：2024-06-12 15:27:04

Overview

This API uses a sync GET request to perform hash calculation and return a calculated hash value in real time.

Billing Description

Calling the API will incur hash calculation fees and COS read request fees as described in Request Fees.
If the files are stored in COS STANDARD_IA storage class, calling the API will incur STANDARD_IA data retrieval fees as described in Data Retrieval Fees.
Processing is not supported for files stored in the ARCHIVE or DEEP ARCHIVE storage classes. To process these files, you first need to restore them as instructed in POST Object restore.

Restrictions

File size: Calculation on files that are less than 128 MB is supported. For files that are greater than 128 MB, use Async API for Hash Calculation.
Request timeout period: 10 seconds
Calling the API requires a signature. For more information, see Request Signature.
This API can be used in Beijing, Shanghai, Guangzhou, Chengdu, Hong Kong (China), Singapore, and Silicon Valley regions.

Request

Sample request

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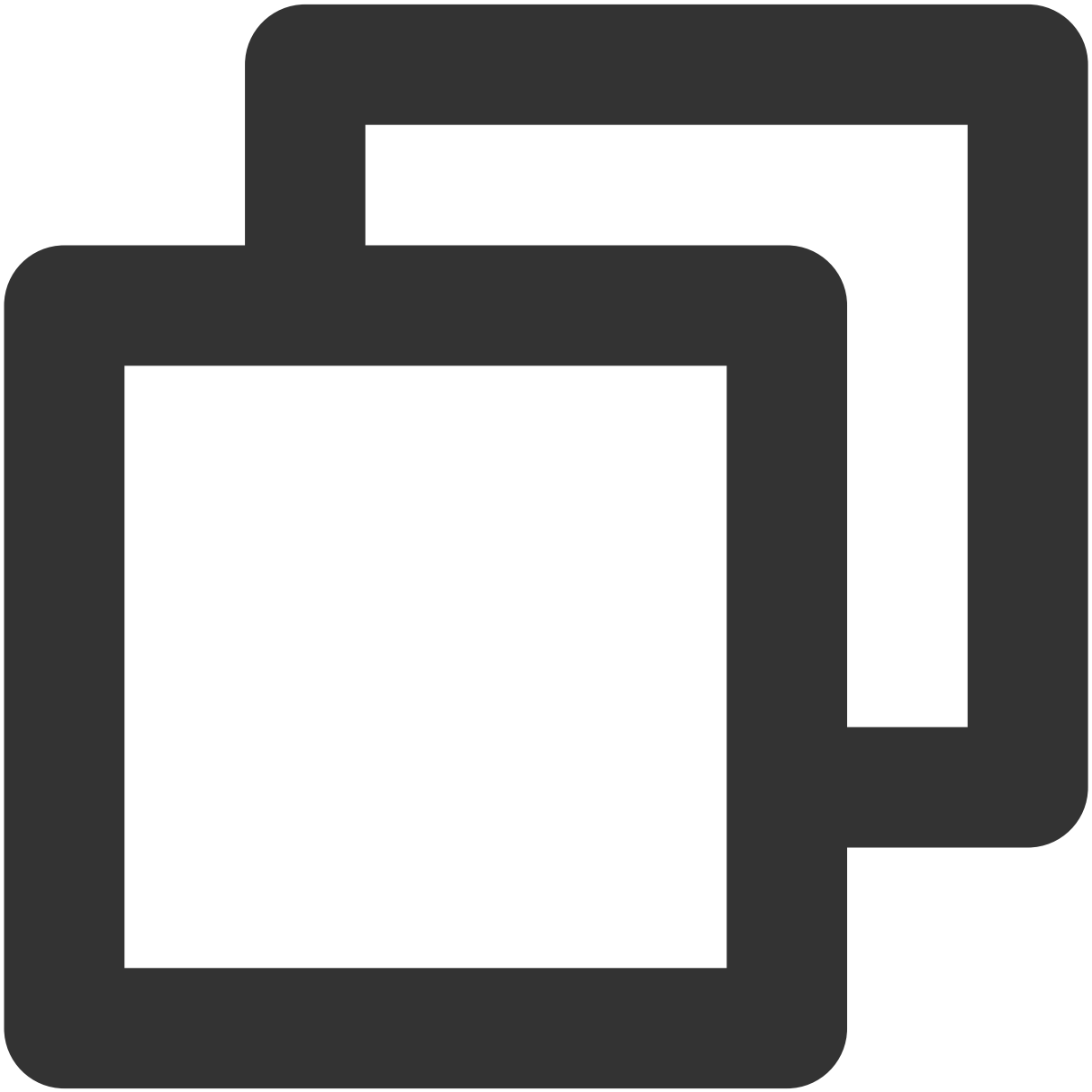

```
GET /for-test.mp4?ci-process=filehash&type=md5 HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
```

Note:

Authorization: Auth String (See Request Signature for details.)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses Common Request Headers.

Request parameters

The parameters are described as follows:

Node Name (Keyword)	Description	Type	Required
ci-process	Operation type. It is fixed at `filehash` for hash calculation.	String	Yes
type	Supported hash algorithm. Valid values: `md5` , `sha1` , `sha256`	String	Yes
addtoheader	Whether to automatically add the calculated hash value to the custom header in the file. Format: x-cos-meta-md5/sha1/sha256 Valid values: `true` , `false` . If this parameter is left empty, it is `false` by default.	String	No

Request body

This request does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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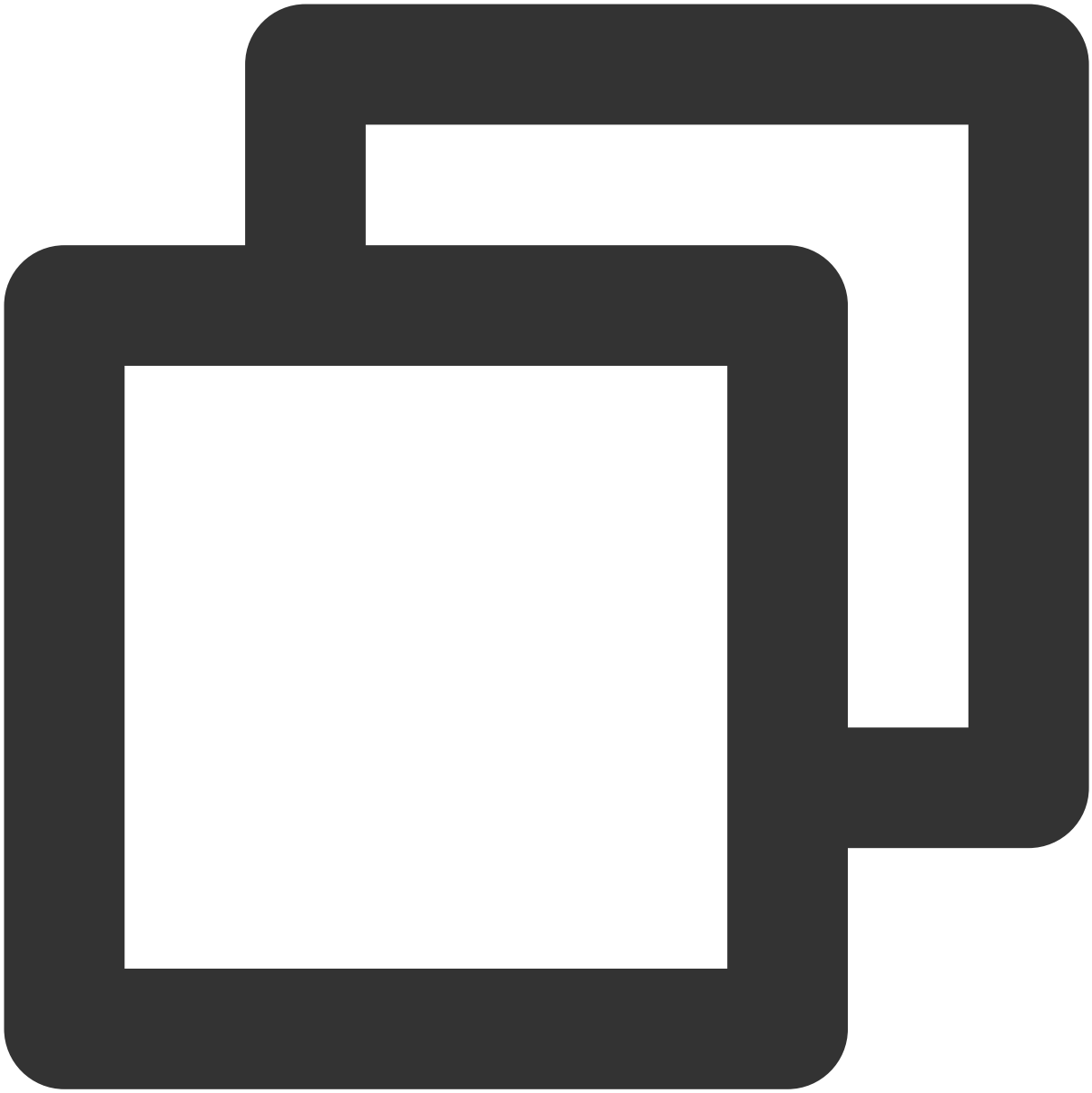

```
<Response>
    <FileHashCodeResult>
        <MD5>0fe771ba515b0525552f59290a50c0ef</MD5>
        <FileSize>1048576</FileSize>
    </FileHashCodeResult>
    <Input>
        <Bucket>test-1234567890</Bucket>
        <Object>wg.txt</Object>
        <Region>ap-chongqing</Region>
    </Input>
</Response>
```

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The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
FileHashCodeResult	Response	File hash result	Container
Input	Response	Basic information of the input file	Container

`FileHashCodeResult` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
MD5	Response.FileHashCodeResult	This field is returned if `type` in the request is `md5`.	String
SHA1	Response.FileHashCodeResult	This field is returned if `type` in the request is `sha1`.	String
SHA256	Response.FileHashCodeResult	This field is returned if `type` in the request is `sha256`.	String
FileSize	Response.FileHashCodeResult	File size	Int

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.JobsDetail.Input	Region of the bucket	String
Bucket	Response.JobsDetail.Input	Bucket where the input file resides	String
Object	Response.JobsDetail.Input	Name of the input file in the bucket	String

Error codes

There are no specific error messages for this request operation. For common error messages, see Error Codes.

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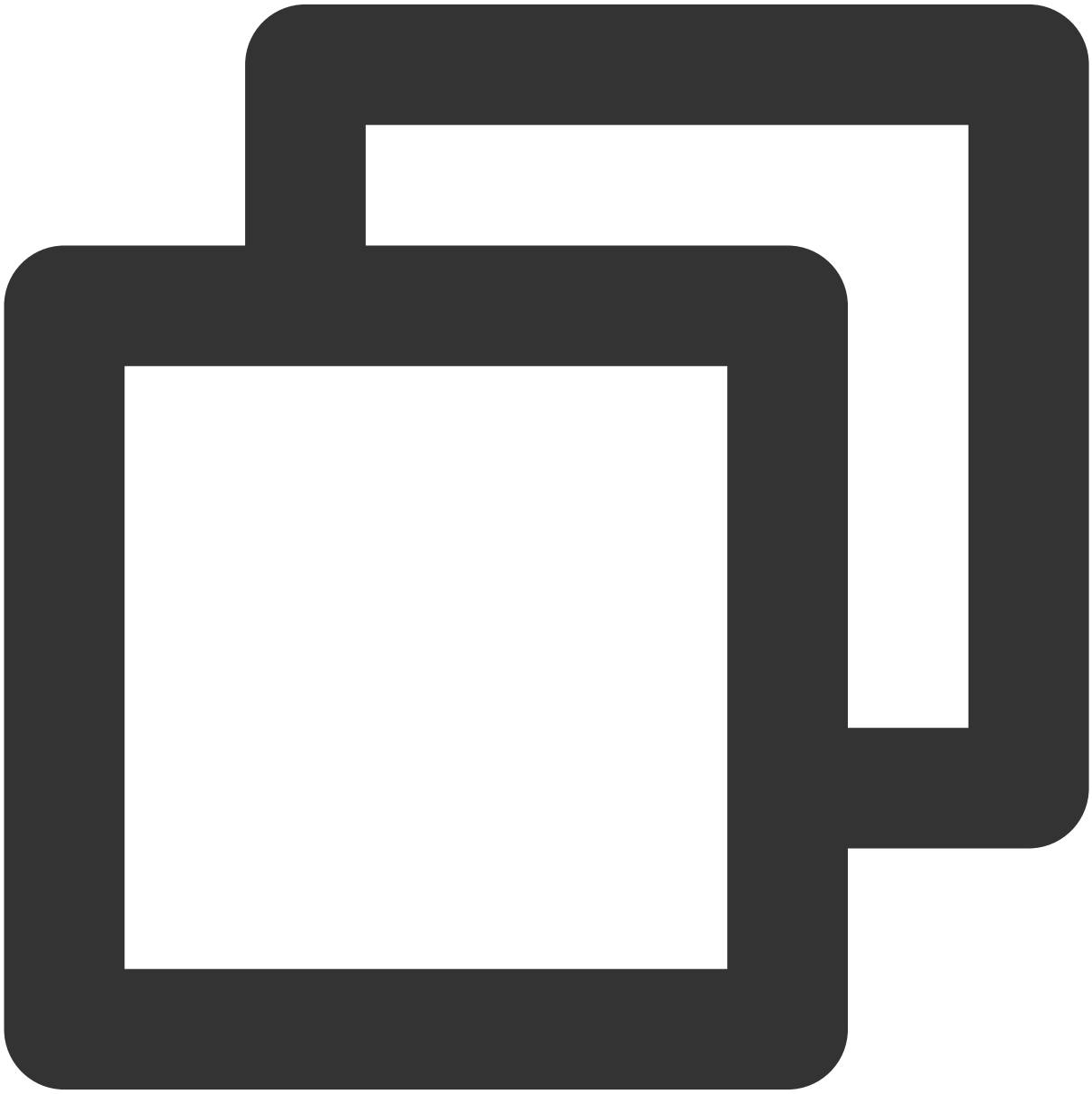
Examples

Request



```
GET /for-test.mp4?ci-process=filehash&type=md5 HTTP/1.1
Host: test-1234567890.cos.ap-beijing.myqcloud.com
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfG****-si
Content-Length: 0
```

Response

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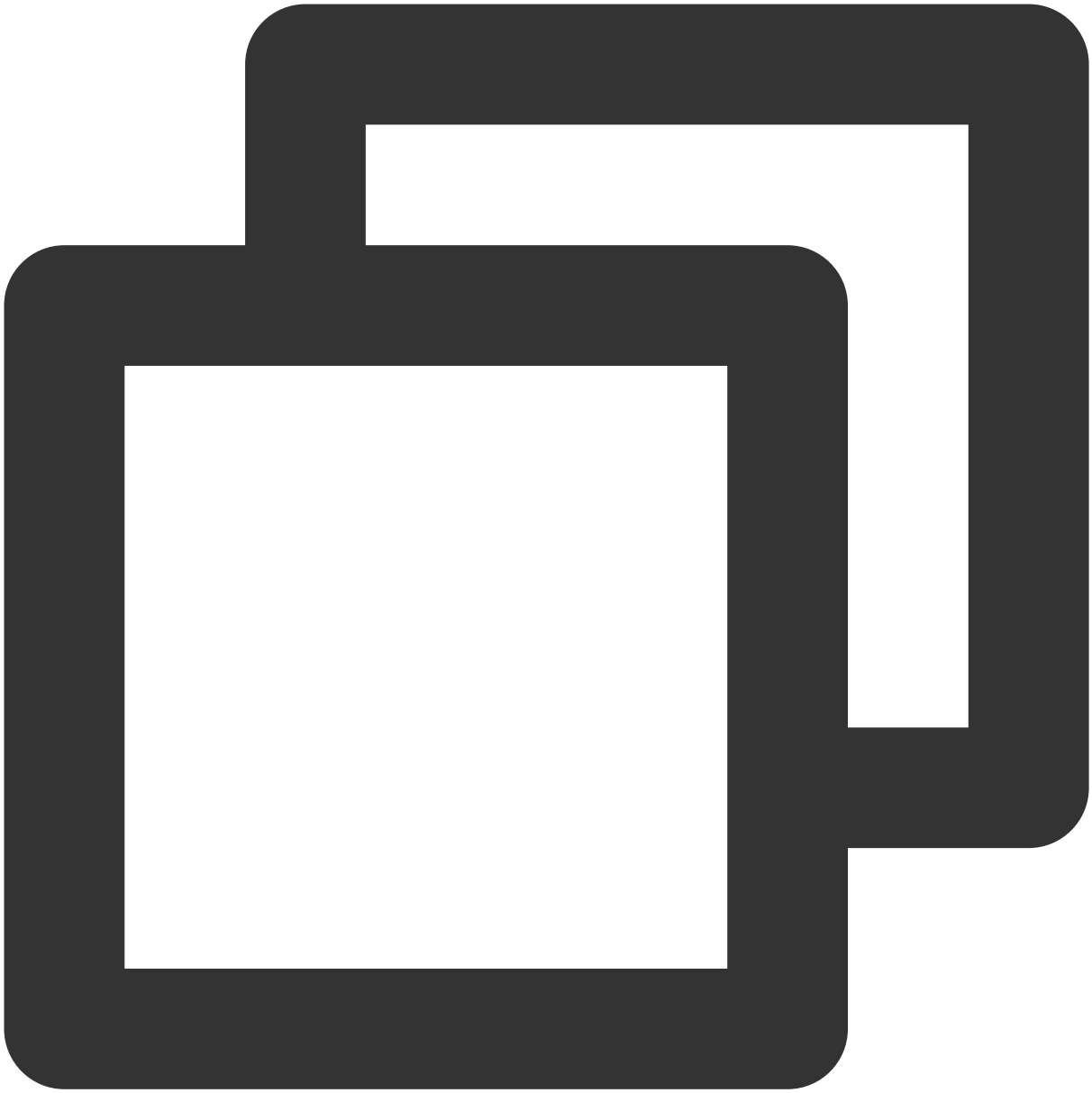

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-cos
x-cos-request-id: NTg3NzRiMjVfYmRjMzVfMTViMl82ZGZmNw==

<Response>
    <FileHashCodeResult>
        <MD5>0fe771ba515b0525552f59290a50c0ef</MD5>
```

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```
        <FileSize>1048576</FileSize>
        <LastModified>2022-06-27T15:23:12+0800</LastModified>
        <Etag>"ee8de918d05640145b18f70f4c3aa602"</Etag>
    </FileHashCodeResult>
    <Input>
        <Bucket>test-1234567890</Bucket>
        <Object>wg.txt</Object>
        <Region>ap-chongqing</Region>
    </Input>
</Response>
```

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Submitting Hash Calculation Job

Last updated：2024-06-12 15:27:03

Overview

This API adopts a POST request method. You can submit a job to perform hash calculation and asynchronously return a calculated hash value.

Billing Description

Calling the API will incur hash calculation fees and COS read request fees as described in Request Fees.
If the files are stored in COS STANDARD_IA storage class, calling the API will incur STANDARD_IA data retrieval fees as described in Data Retrieval Fees.
Calculation is not supported for files stored in the ARCHIVE or DEEP ARCHIVE storage classes. To calculate hash values for these files, you first need to restore them as instructed in POST Object restore.

Restrictions

Supported file size: Calculation on files that are less than 50 GB is supported.
Calling the API requires a signature. For more information, see Request Signature.
This API can be used in Beijing, Shanghai, Guangzhou, Chengdu, Hong Kong (China), Singapore, and Silicon Valley regions.

Request

Sample request

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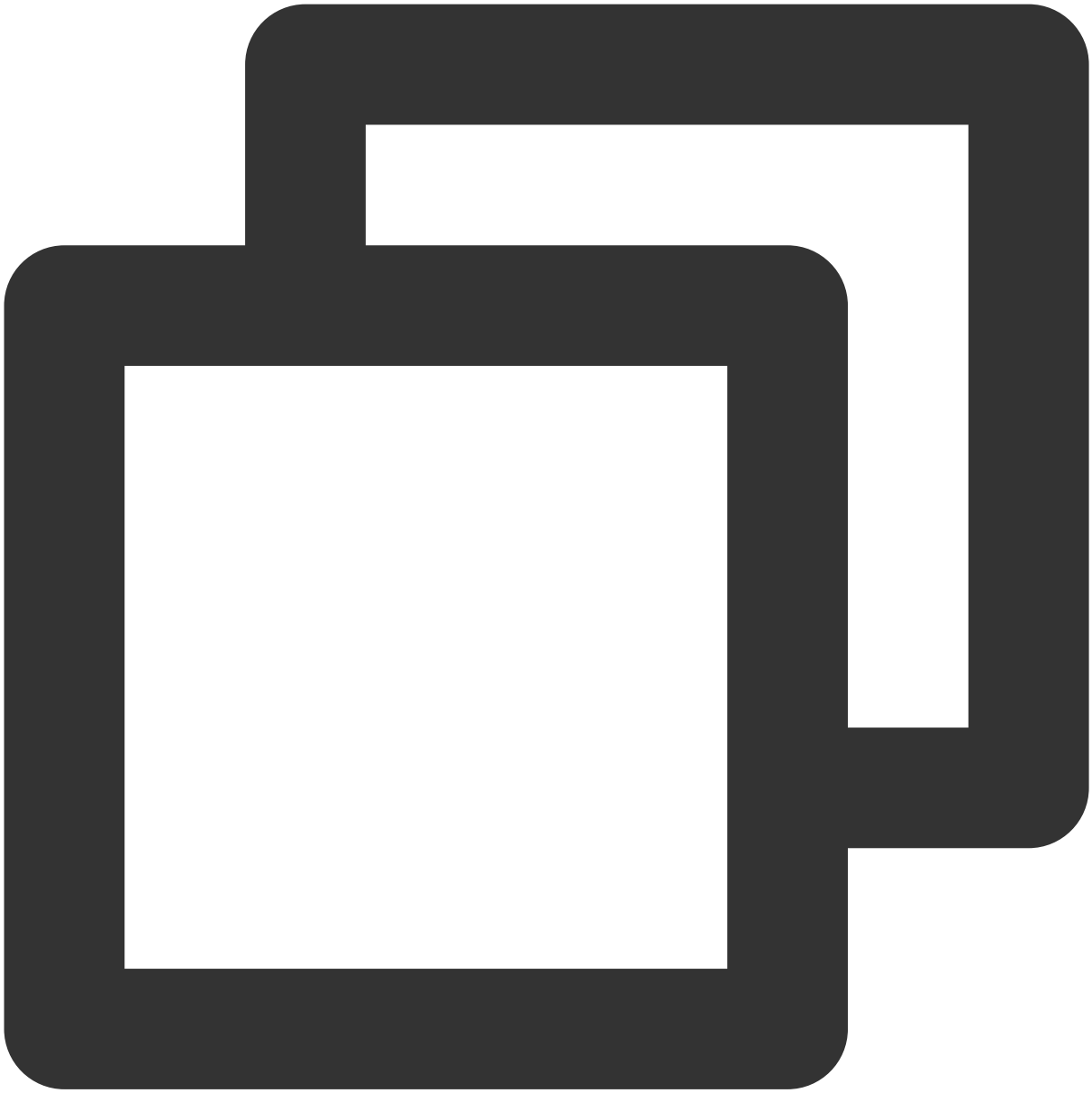

```
POST /file_jobs HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (For more information, see Request Signature.)

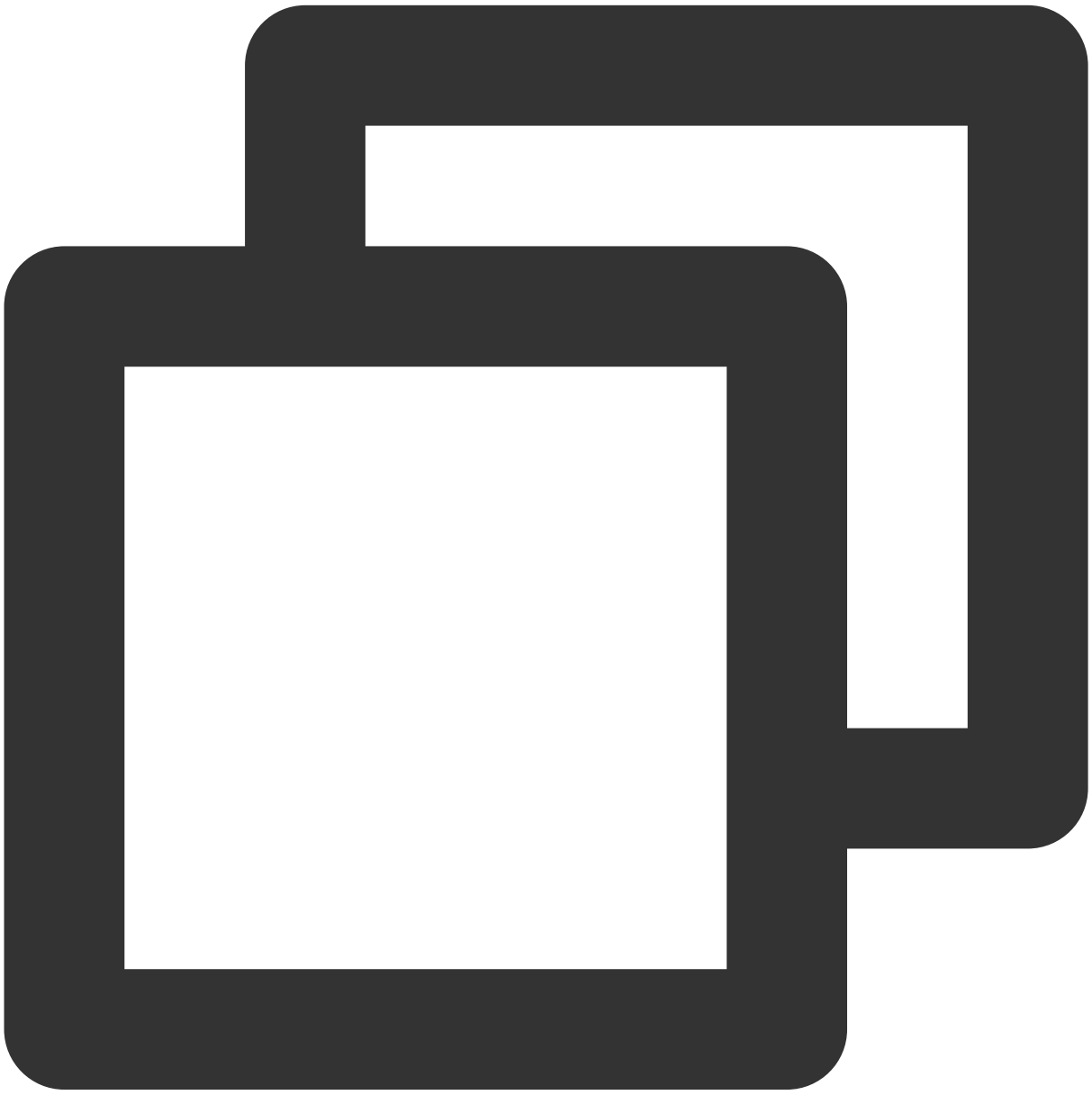
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>FileHashCode</Tag>
    <Input>
        <Object>input/test.mp4</Object>
    </Input>
    <Operation>
        <FileHashCodeConfig>
            <Type>MD5</Type>
            <AddToHeader>true</AddToHeader>
        </FileHashCodeConfig>
        <UserData>This is my data.</UserData>
    </Operation>
    <QueueId>p2911917386e148639319e13c285cc774</QueueId>
    <CallBack>http://test.test.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job type. It is `FileHashCode` for hash calculation by default.	String	Yes
Input	Request	Information about the file to be operated	Container	Yes
Operation	Request	Hash calculation rule	Container	Yes
QueueId	Request	ID of the queue where the job is in	String	Yes
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address. It takes priority over that of the queue.	String	No

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CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure > CallBackMqConfig, which is required if `CallBackType` is `TDMQ` .	Container	No

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Filename, which is the full name of the file in the bucket.	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
FileHashCodeConfig	Request.Operation	Hash calculation rule	Container	Yes
UserData	Request.Operation	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No

`FileHashCodeConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Type	Request.Operation.FileHashCodeConfig	Hash algorithm. Valid values: `MD5` , `SHA1` , `SHA256`	String	Yes
AddToHeader	Request.Operation.FileHashCodeConfig	Whether to add the calculated hash value to the custom header in the file. Valid values: `true` , `false` (default) The custom header varies depending on `Type` . For example, if `Type` is `MD5` , the custom header is `x-cos-meta-md5` .	String	No

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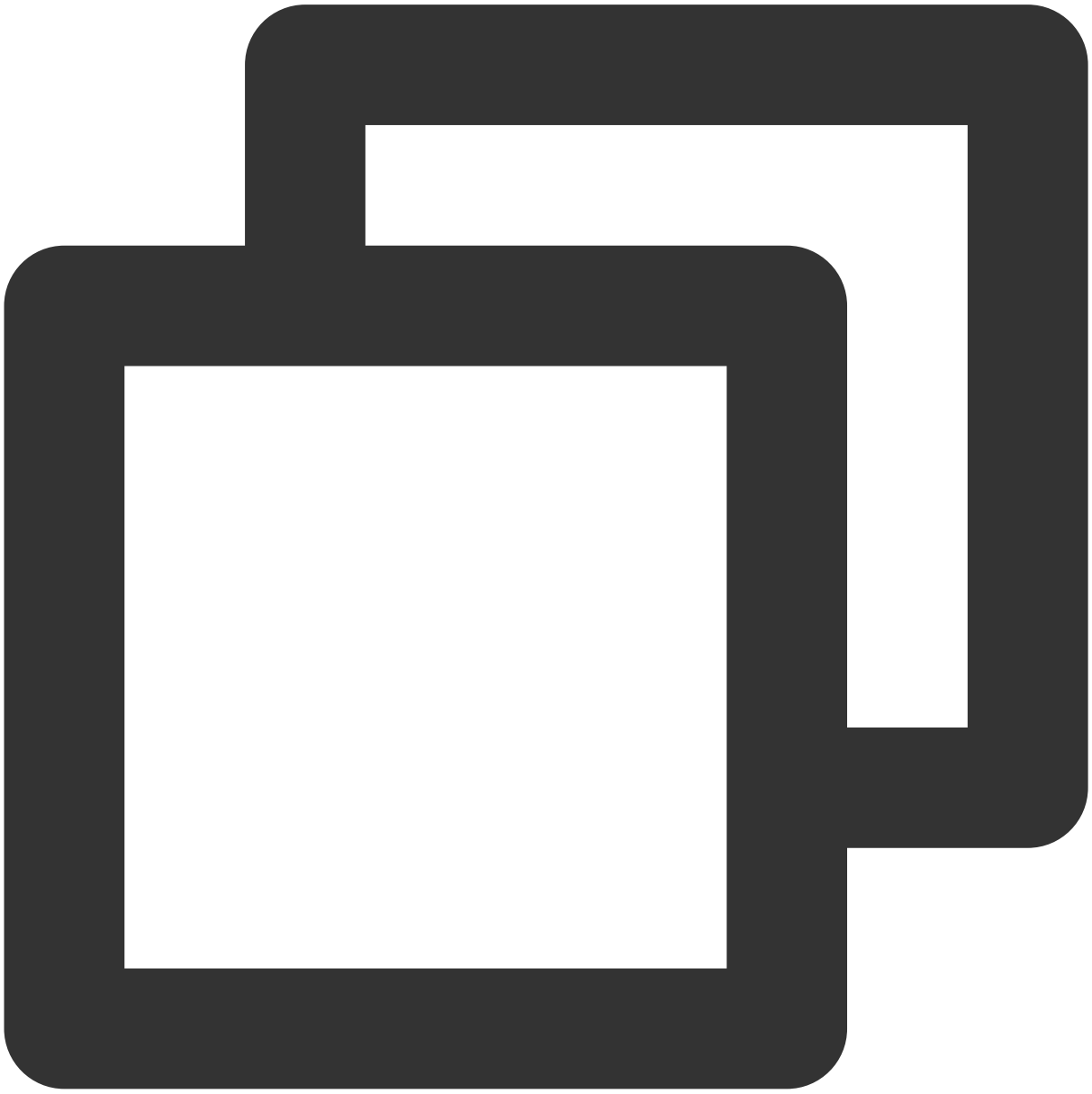
Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:



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```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileHashCode</Tag>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/test.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <FileHashCodeConfig>
                <Type>MD5</Type>
                <AddToHeader>true</AddToHeader>
            </FileHashCodeConfig>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is returned only if `State` is `Failed`	String
Message	Response.JobsDetail	Error message, which is returned only if `State` is	String

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		`Failed`	
JobId	Response.JobsDetail	Job ID	String
Tag	Response.JobsDetail	Job type. It is `FileHashCode` for hash calculation by default.	String
State	Response.JobsDetail	Job status. Valid values: `Submitted` (submitted), `Running` (running), `Success` (successful), `Failed` (failed), `Pause` (paused), `Cancel` (canceled)	String
CreationTime	Response.JobsDetail	Job creation time	String
StartTime	Response.JobsDetail	Job start time	String
EndTime	Response.JobsDetail	Job end time	String
QueueId	Response.JobsDetail	ID of the queue where the job is in	String
Input	Response.JobsDetail	Information about the file for which hash calculation is performed	Container
Operation	Response.JobsDetail	Hash calculation rule	Container

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.JobsDetail.Input	Region of the bucket	String
Bucket	Response.JobsDetail.Input	Bucket where the file resides	String
Object	Response.JobsDetail.Input	Name of the file for which hash calculation is performed	String

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
UserData	Response.JobsDetail.Operation	The user information passed through.
FileHashCodeConfig	Response.JobsDetail.Operation	Same as `Request.Operation.FileHashCodeConfig` in the request.

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FileHashCodeResult	Response.JobsDetail.Operation	File hash information obtained, which will not be returned when the job is not completed.

`FileHashCodeResult` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
MD5	Response.JobsDetail.Operation.FileHashCodeResult	MD5 calculation result	String
SHA1	Response.JobsDetail.Operation.FileHashCodeResult	SHA1 calculation result	String
SHA256	Response.JobsDetail.Operation.FileHashCodeResult	SHA256 calculation result	String
FileSize	Response.JobsDetail.Operation.FileHashCodeResult	File size	Int
LastModified	Response.JobsDetail.Operation.FileHashCodeResult	Time when the file was last modified	String
Etag	Response.JobsDetail.Operation.FileHashCodeResult	File ETag	String

Error codes

There are no specific error messages for this request operation. For common error messages, see Error Codes.

Examples

Request

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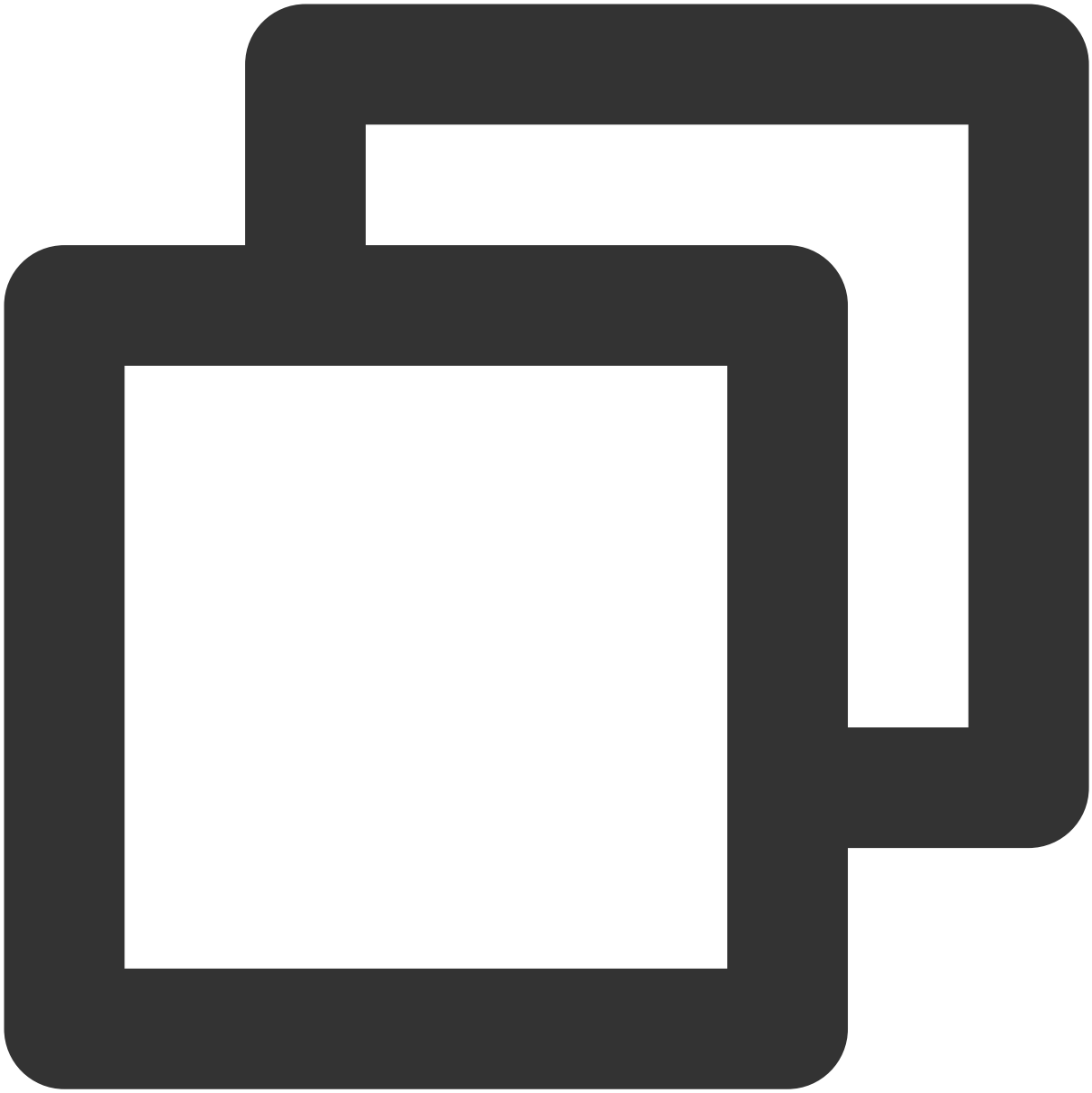

```
POST /file_jobs HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Tag>FileHashCode</Tag>
    <Input>
        <Object>input/test.mp4</Object>
    </Input>
```

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```
    <Operation>
        <FileHashCodeConfig>
            <Type>MD5</Type>
            <AddToHeader>true</AddToHeader>
        </FileHashCodeConfig>
        <UserData>This is my data.</UserData>
    </Operation>
    <QueueId>p2911917386e148639319e13c285cc774</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

Response

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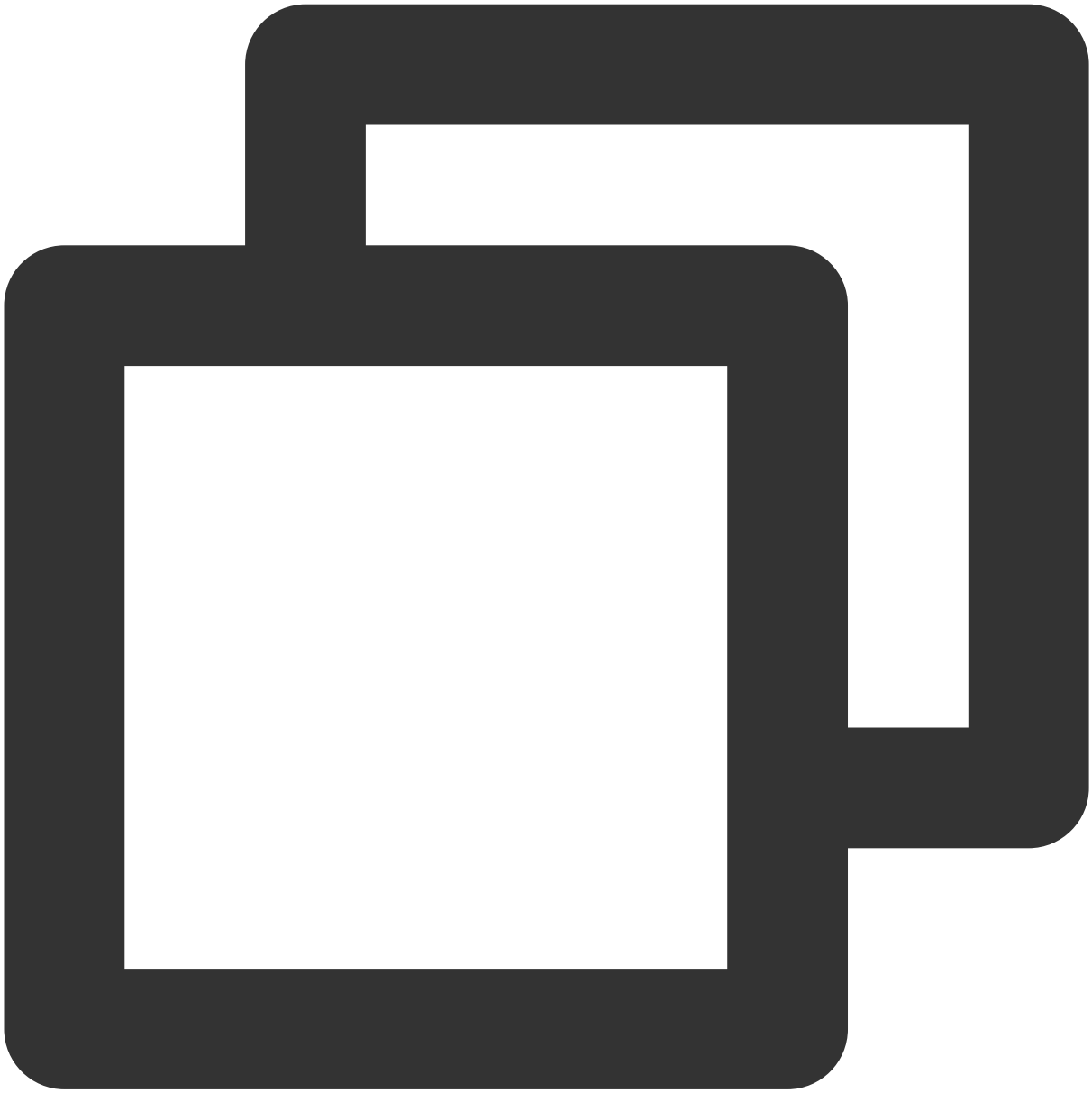

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 18 Jul 2022 19:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjc=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileHashCode</Tag>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/deer.jpg</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <FileHashCodeConfig>
                <Type>MD5</Type>
                <AddToHeader>true</AddToHeader>
            </FileHashCodeConfig>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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Querying Hash Calculation Result

Last updated：2024-06-12 15:27:03

Overview

This API is used to query the result of a specified hash calculation job.

Request

Sample request

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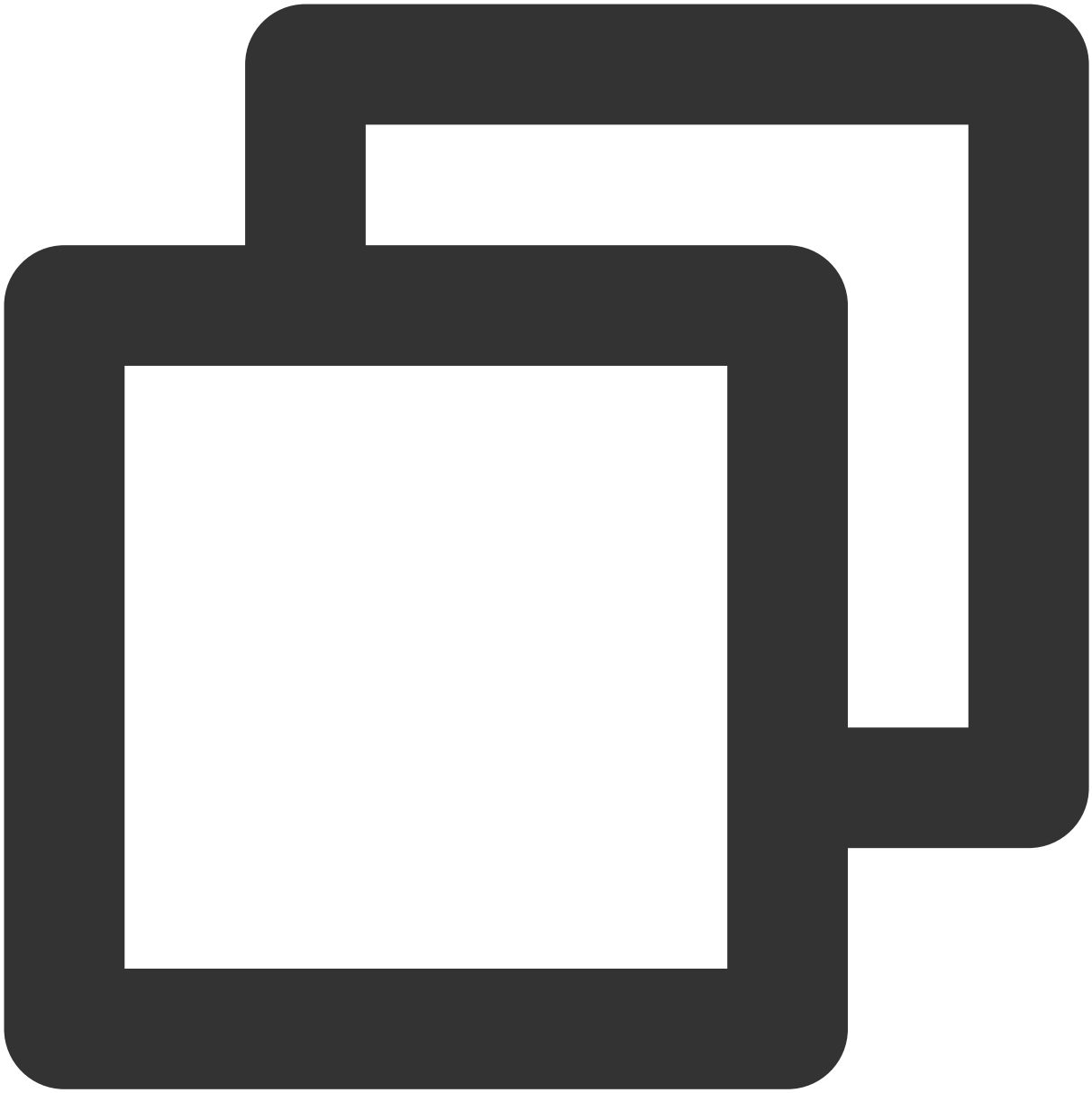

```
GET /file_jobs/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (See Request Signature for details.)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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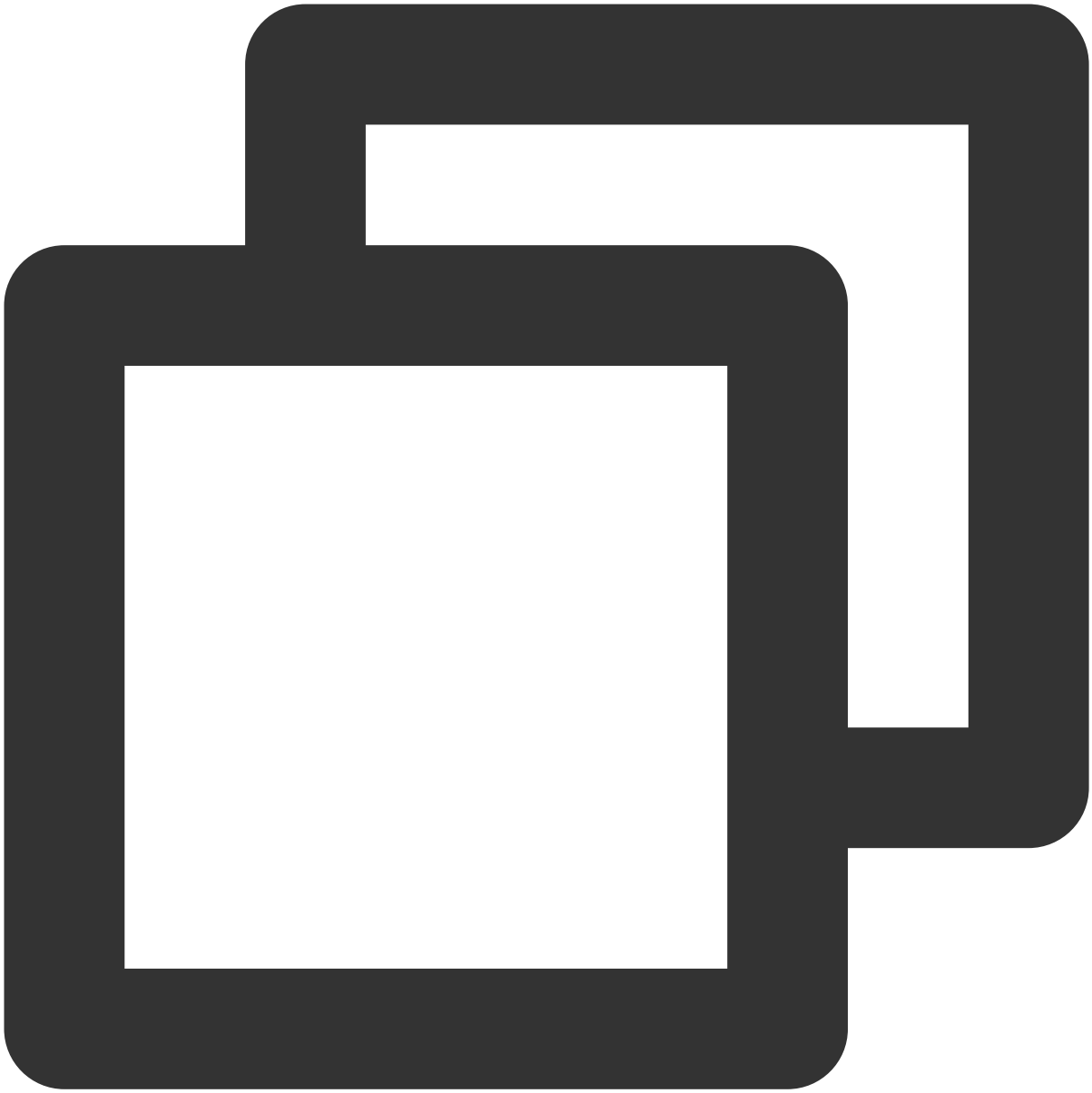

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileHashCode</Tag>
```

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```
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/test.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <FileHashCodeConfig>
                <Type>MD5</Type>
                <AddToHeader>true</AddToHeader>
            </FileHashCodeConfig>
            <FileHashCodeResult>
                <MD5>xxxxxxxx</MD5>
                <FileSize>123</FileSize>
                <LastModified>2022-06-27T15:23:11+0800</LastModified>
                <Etag>xxxxxx</Etag>
            </FileHashCodeResult>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container
NonExistJobIds	Response	List of non-existing job IDs queried. If all jobs exist, this node is not returned.	String

For specific parameter values, see `JobsDetail` in Hash Calculation.

Error codes

No special error message will be returned for this request. For the common error messages, see Error Codes.

Examples

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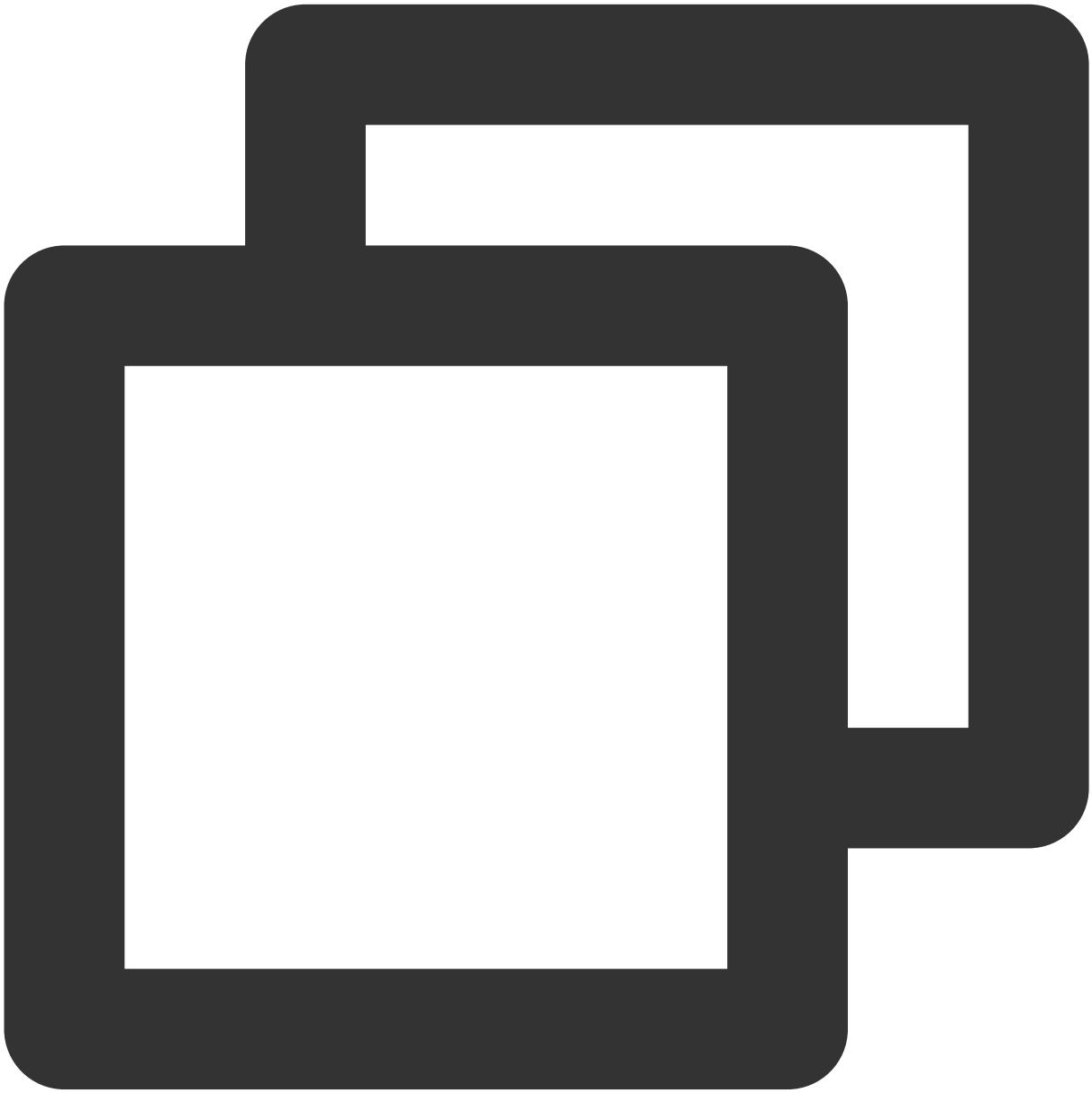
Request



```
GET /file_jobs/f93984788066911ed89ed352d4d9d2084 HTTP/1.1
Accept: */*
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response

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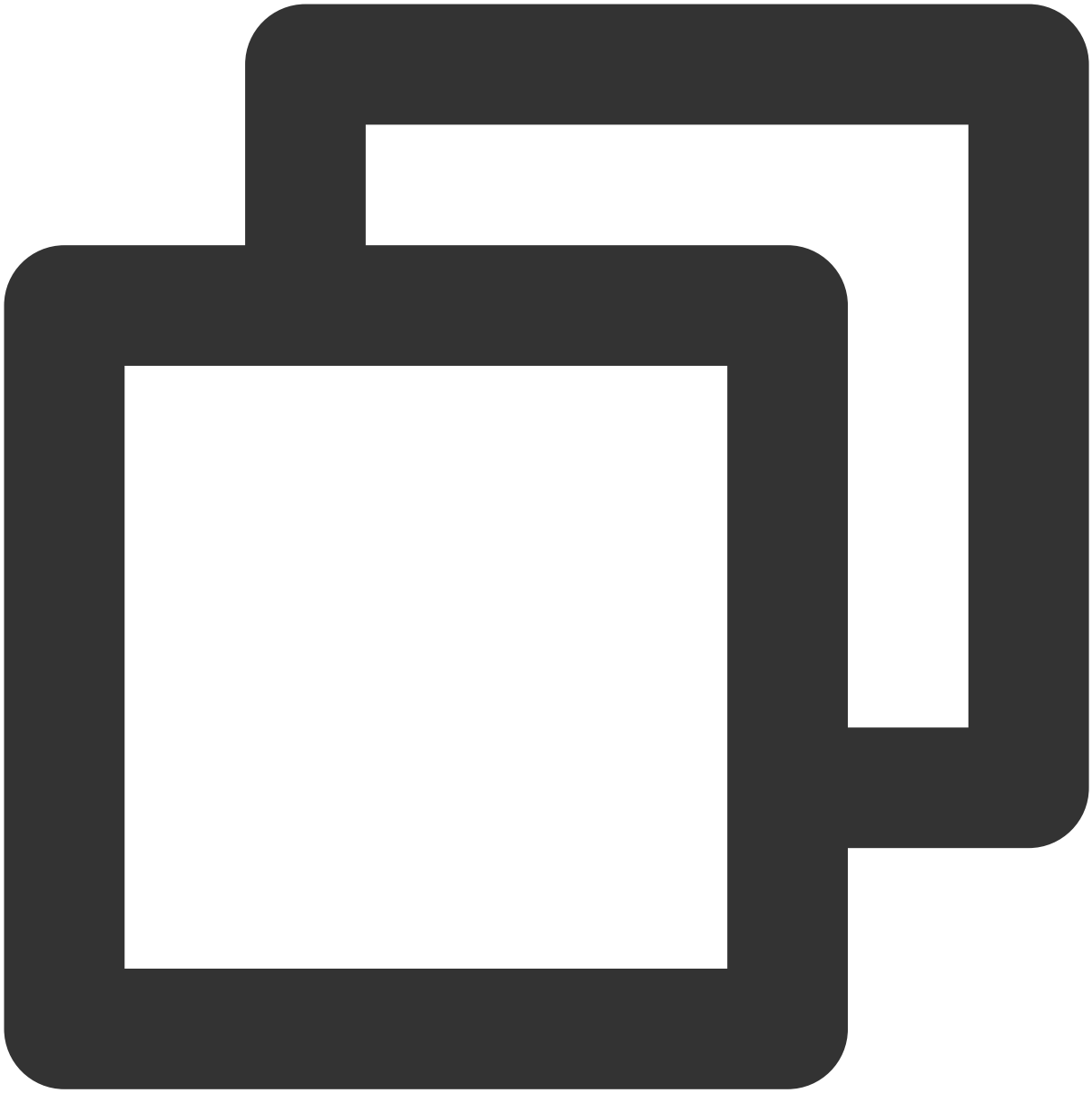

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 18 Jul 2022 19:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjc=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileHashCode</Tag>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/test.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <FileHashCodeConfig>
                <Type>MD5</Type>
                <AddToHeader>true</AddToHeader>
            </FileHashCodeConfig>
            <FileHashCodeResult>
                <MD5>xxxxxxxx</MD5>
                <FileSize>123</FileSize>
                <LastModified>2022-06-27T15:23:11+0800</LastModified>
                <Etag>xxxxxx</Etag>
            </FileHashCodeResult>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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File Decompression
Submitting File Decompression Job

Last updated：2024-06-12 15:27:03

Overview

This API adopts a POST request method. You can submit a job to perform file decompression and asynchronously return decompressed files.

Billing Description

Calling the API will incur file decompression fees and COS read request fees as described in Request Fees.
If the files are stored in COS STANDARD_IA storage class, calling the API will incur STANDARD_IA data retrieval fees as described in Data Retrieval Fees.
Decompression is not supported for files stored in the ARCHIVE or DEEP ARCHIVE storage classes. To decompress these files, you first need to restore them as instructed in POST Object restore.

Restrictions

Supported file size: Decompression on a file that is less than 5 TB is supported.
File decompression adopts streaming decompression. The system outputs the decompressed files while decompressing them. If some files are corrupted during the decompression, the decompression operation stops, and some decompressed files are retained.
Calling the API requires a signature. For more information, see Request Signature.
This API can be used in Beijing, Shanghai, Guangzhou, Chengdu, Hong Kong (China), Singapore, and Silicon Valley regions.

Request

Sample request

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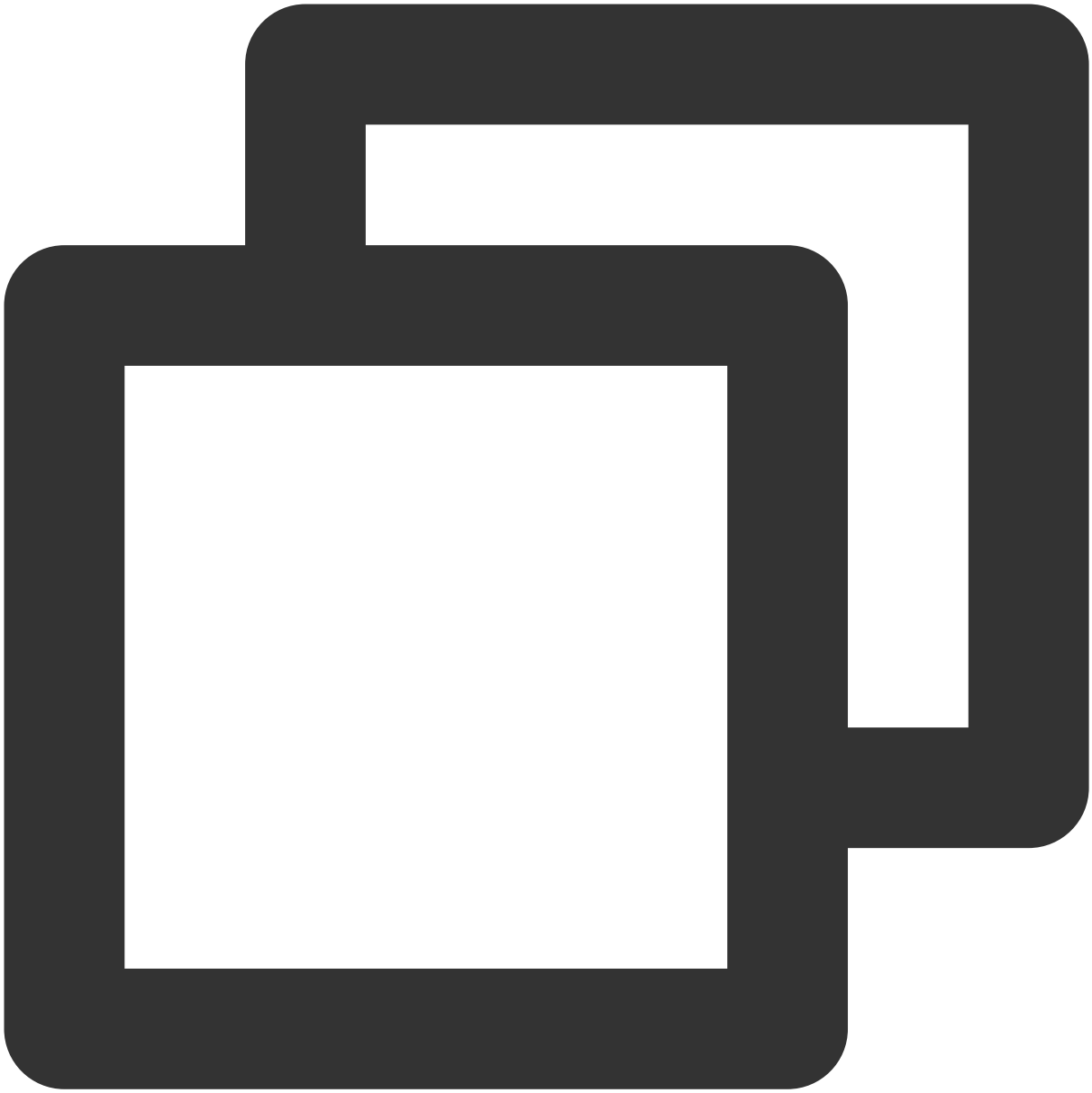

```
POST /file_jobs HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (For more information, see Request Signature.)

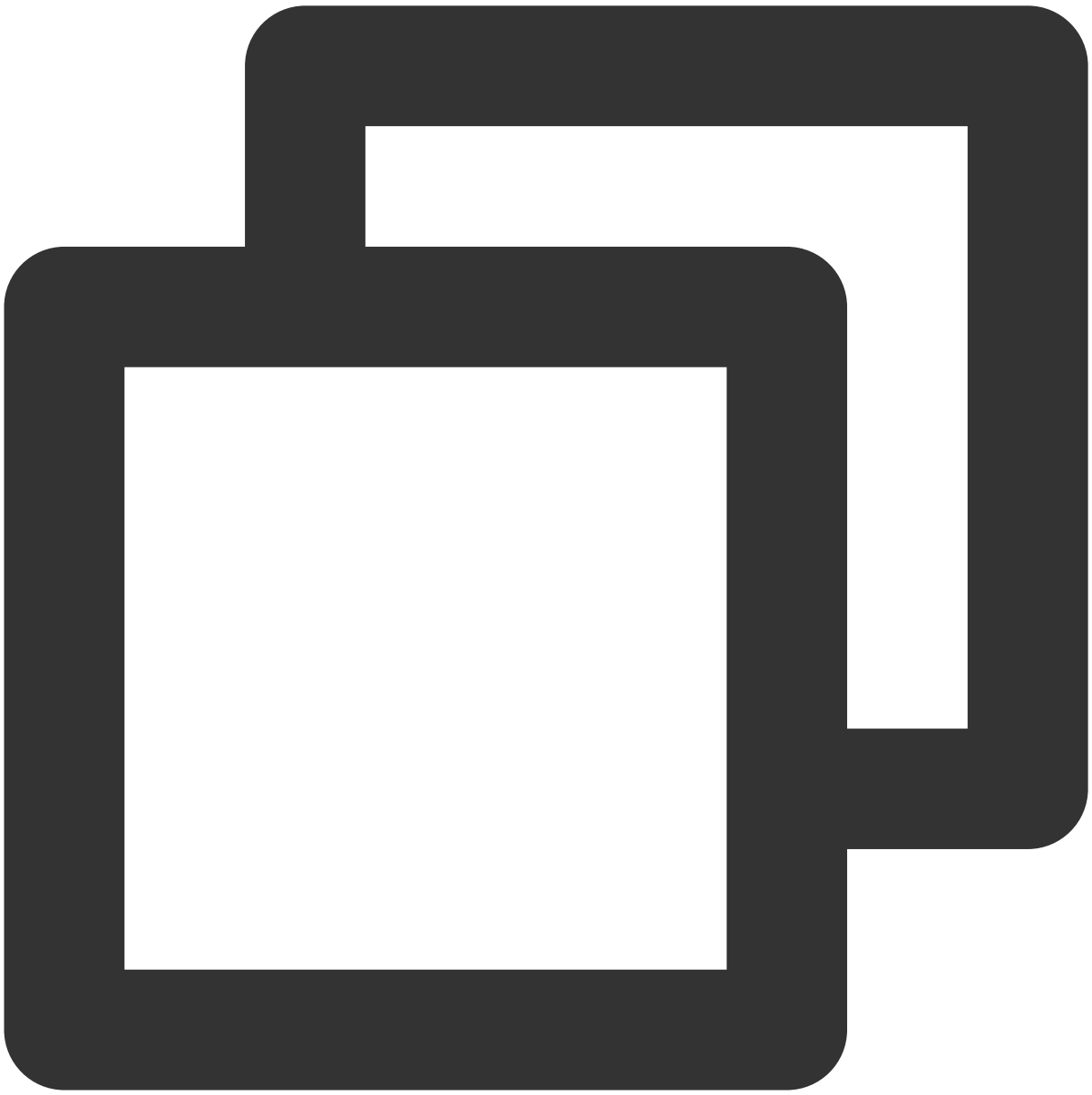
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>FileUncompress</Tag>
    <Input>
        <Object>input/test.zip</Object>
    </Input>
    <Operation>
        <FileUncompressConfig>
            <Prefix>output/</Prefix>
            <PrefixReplaced>1</PrefixReplaced>
        </FileUncompressConfig>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-1234567890</Bucket>
        </Output>
        <UserData>This is my data.</UserData>
    </Operation>
    <QueueId>p2911917386e148639319e13c285cc774</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job type. It is `FileUncompress` for file decompression by default.	String	Yes
Input	Request	Information about the file to be operated	Container	Yes
Operation	Request	File decompression rule.	Container	Yes
QueueId	Request	ID of the queue where the job is in	String	Yes
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default) or `TDMQ`. It takes priority over that of the	String	No

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		queue.		
CallBack	Request	Job callback address. It takes priority over that of the queue.	String	No
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure > CallBackMqConfig, which is required if `CallBackType` is `TDMQ`.	Container	No

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	File name, which is the full name of the file in the bucket.	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
FileUncompressConfig	Request.Operation	File decompression rule	Container	Yes
UserData	Request.Operation	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No
Output	Request.Operation	Information about the bucket where the decompressed file is stored	Container	Yes

`FileUncompressConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Prefix	Request.Operation.FileUncompressConfig	Prefix of the input file after decompression. If this parameter is left empty, the file is stored in the root directory of the bucket by default.	String	No

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PrefixReplaced	Request.Operation.FileUncompressConfig	Whether to replace the prefix of the directory of the decompressed file. Valid values: `0` : No additional prefix is added. The decompressed files are saved in the directory specified by `Prefix` (the name of the compressed package is not retained, and the file in the compressed package is saved to the specified directory only). `1` : The name of the compressed package is used as the prefix. The decompressed files are saved in the directory specified by `Prefix` . `2` : The full directory of the compressed package is used as the prefix. If `Prefix` is not specified, the file is decompressed to the current directory (including the name of the compressed package) of the compressed package. Default value: `0`	String	No

Sample:

If the compressed package is named `test.zip` , contains the `image.jpg` file, and is stored in the `123` directory in bucket A, the full directory of the compressed package is `123/test.zip` .

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Decompress the package to bucket A with `Prefix` set to `456`. The storage directory of the decompressed file varies depending on the value of `PrefixReplaced`:
`0`: The `image.jpg` file is stored in the `456` directory and its full directory is `456/image.jpg`.
`1`: The `image.jpg` file is stored in the `456` directory with prefix `test` and its full directory is `456/test/image.jpg`.
`2`: The `image.jpg` file is stored in the `456` directory with prefix `123/test` and its full directory is `456/123/test/image.jpg`.
`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Region	Request.Operation.Output	Bucket region	String	Yes
Bucket	Request.Operation.Output	Bucket where the decompressed files are stored	String	Yes

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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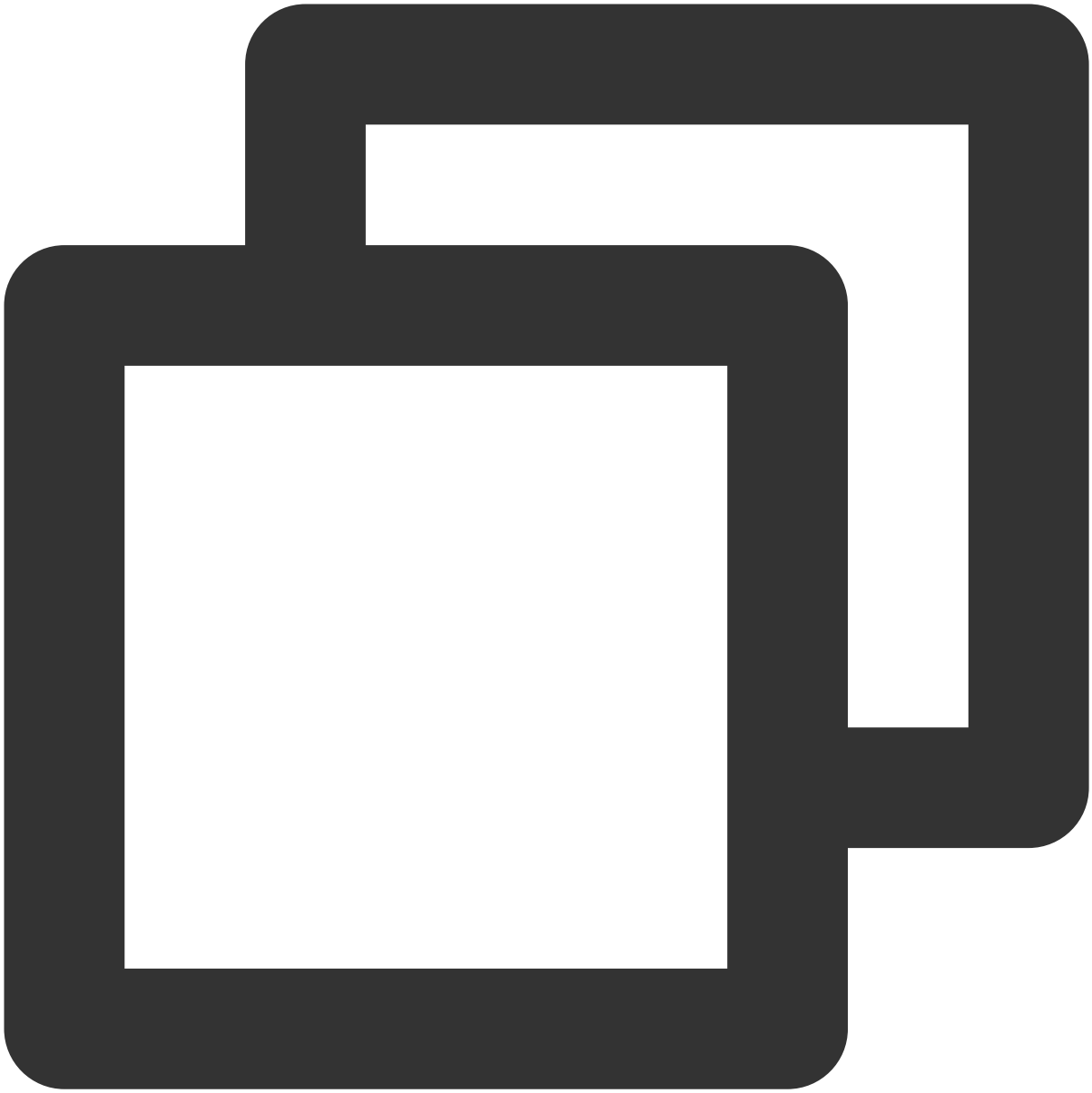

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileUncompress</Tag>
```

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```
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/test.zip</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <FileUncompressConfig>
                <Prefix>output/</Prefix>
                <PrefixReplaced>1</PrefixReplaced>
            </FileUncompressConfig>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is returned only if `State` is `Failed`	String
Message	Response.JobsDetail	Error message, which is returned only if `State` is `Failed`	String
JobId	Response.JobsDetail	Job ID	String
Tag	Response.JobsDetail	Job type. It is `FileUncompress` for file decompression by default.	String

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State	Response.JobsDetail	Job status. Valid values: `Submitted` (submitted), `Running` (running), `Success` (successful), `Failed` (failed), `Pause` (paused), `Cancel` (canceled)	String
CreationTime	Response.JobsDetail	Job creation time	String
StartTime	Response.JobsDetail	Job start time	String
EndTime	Response.JobsDetail	Job end time	String
QueueId	Response.JobsDetail	ID of the queue where the job is in	String
Input	Response.JobsDetail	Information about the file to be decompressed	Container
Operation	Response.JobsDetail	File decompression rule	Container

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.JobsDetail.Input	Region of the bucket	String
Bucket	Response.JobsDetail.Input	Bucket where the file resides	String
Object	Response.JobsDetail.Input	Name of the file to be decompressed	String

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
UserData	Response.JobsDetail.Operation	The user information passed through.
Output	Response.JobsDetail.Operation	Same as `Request.Operation.Output` in the request.
FileUncompressConfig	Response.JobsDetail.Operation	Same as `Request.Operation.FileUncompressConf` in the request.
FileUncompressResult	Response.JobsDetail.Operation	File decompression result, which will not be returned when the job is not completed.

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`FileUncompressResult` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.JobsDetail.Operation.FileUncompressResult	Region of the bucket where the decompressed file is stored	String
Bucket	Response.JobsDetail.Operation.FileUncompressResult	Bucket where the decompressed file is stored	String
FileCount	Response.JobsDetail.Operation.FileUncompressResult	Number of decompressed files	String

Error codes

There are no specific error messages for this request operation. For common error messages, see Error Codes.

Examples

Request

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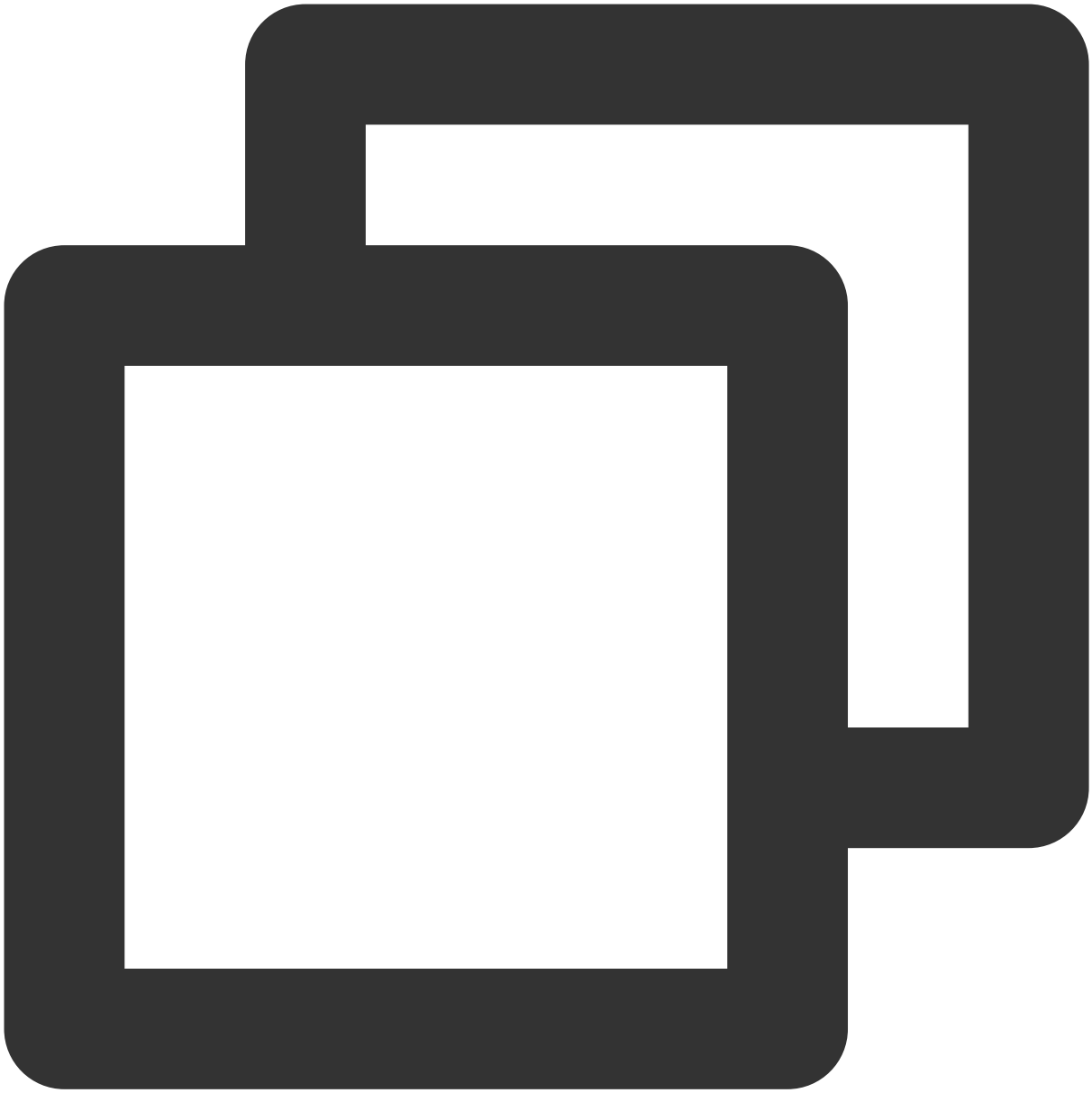

```
POST /file_jobs HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Tag>FileUncompress</Tag>
    <Input>
        <Object>input/test.zip</Object>
    </Input>
```

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```
    <Operation>
        <FileUncompressConfig>
            <Prefix>output/</Prefix>
            <PrefixReplaced>1</PrefixReplaced>
        </FileUncompressConfig>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-1234567890</Bucket>
        </Output>
        <UserData>This is my data.</UserData>
    </Operation>
    <QueueId>p2911917386e148639319e13c285cc774</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

Response

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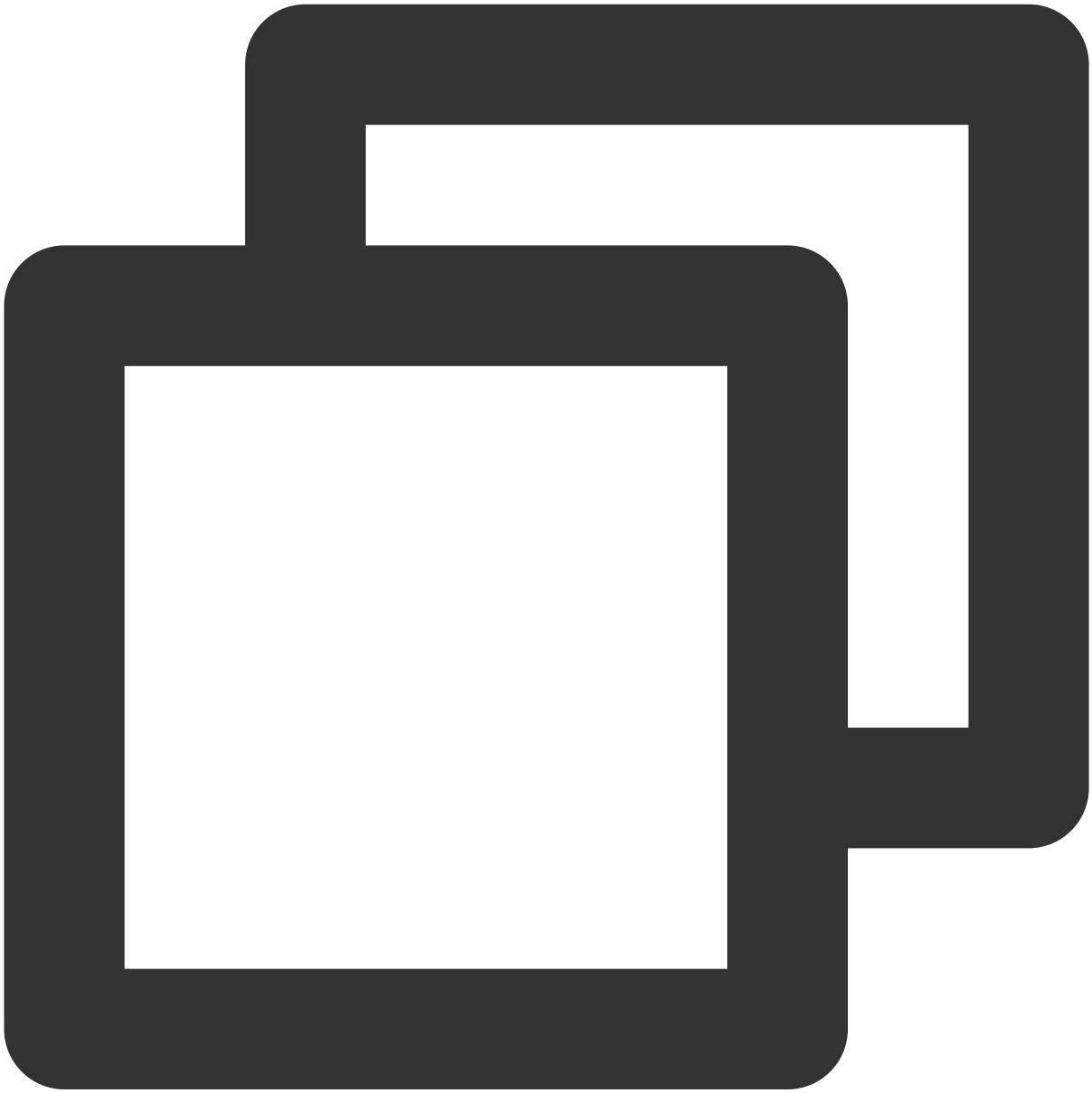

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 18 Jul 2022 19:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjc=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileUncompress</Tag>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/test.zip</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <FileUncompressConfig>
                <Prefix>output/</Prefix>
                <PrefixReplaced>1</PrefixReplaced>
            </FileUncompressConfig>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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Querying File Decompression Result

Last updated：2024-06-12 15:27:03

Overview

This API is used to query the result of a specified file decompression job.

Request

Sample request

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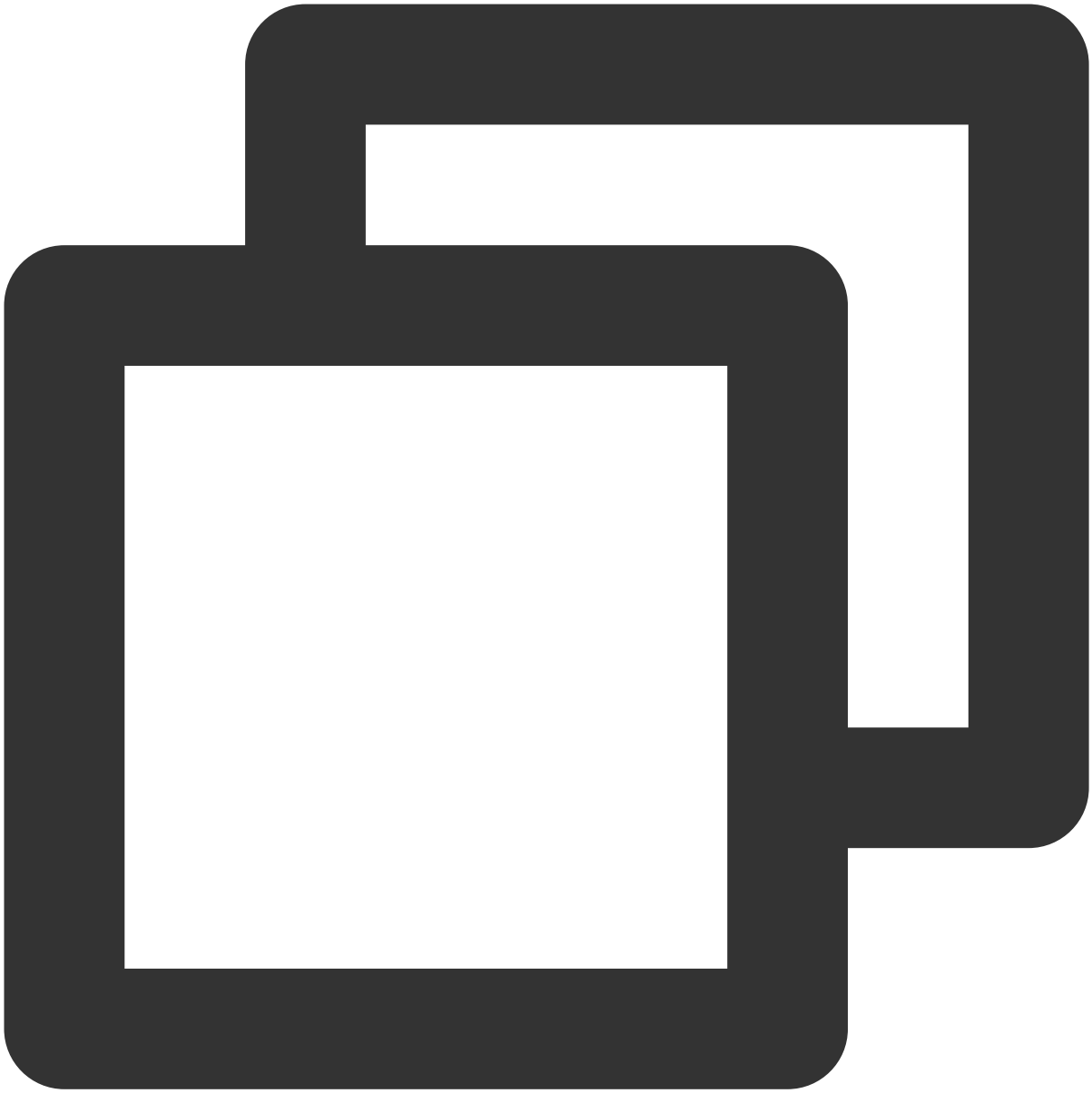

```
GET /file_jobs/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (For more information, see Request Signature.)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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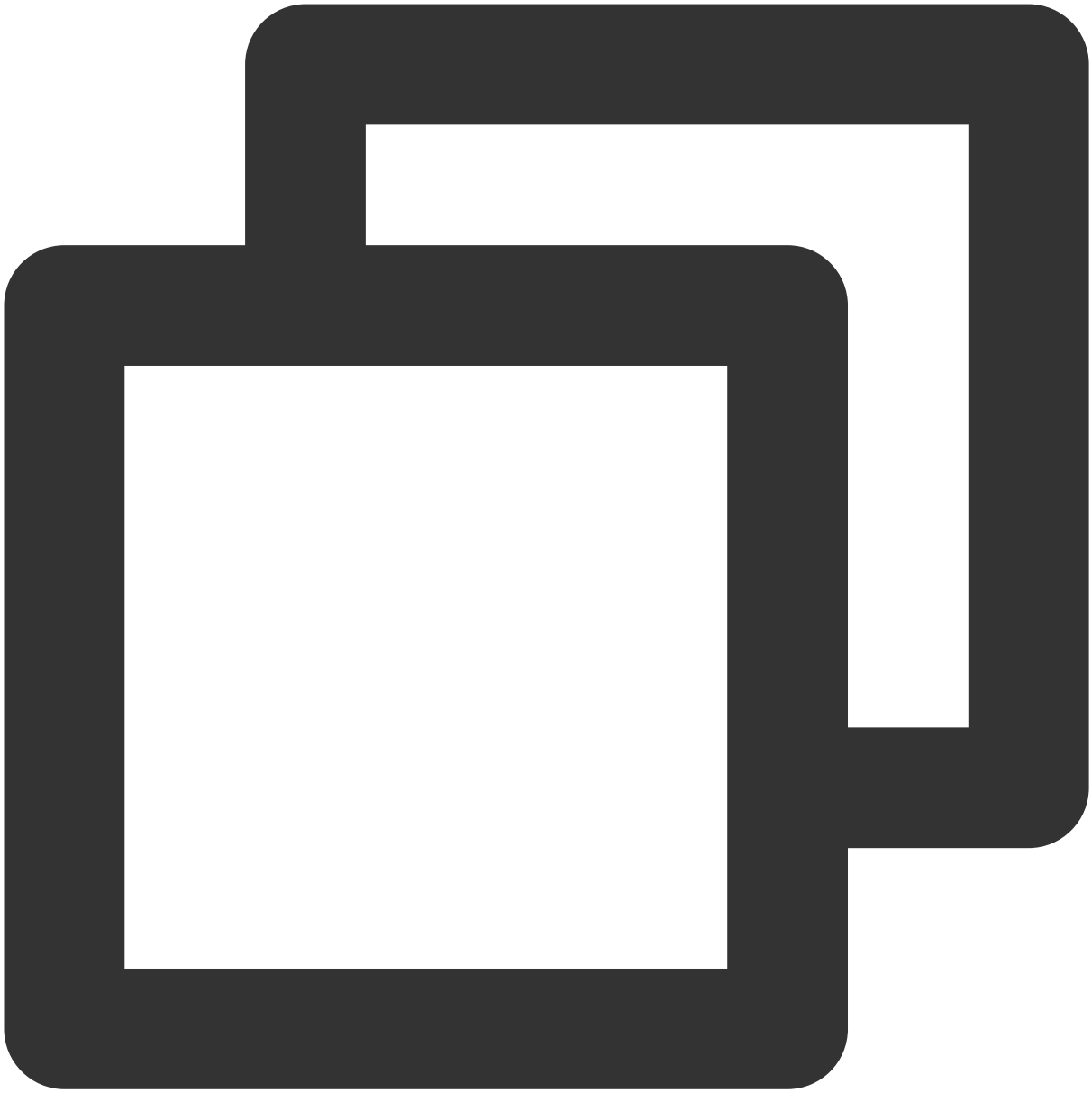

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileUncompress</Tag>
```

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```
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/test.zip</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <FileUncompressConfig>
                <Prefix>output/</Prefix>
                <PrefixReplaced>1</PrefixReplaced>
            </FileUncompressConfig>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container
NonExistJobIds	Response	List of non-existing job IDs queried. If all jobs exist, this node is not returned.	String

For specific parameter values, see `JobsDetail` in File Decompression.

Error codes

No special error message will be returned for this request. For the common error messages, see Error Codes.

Examples

Request

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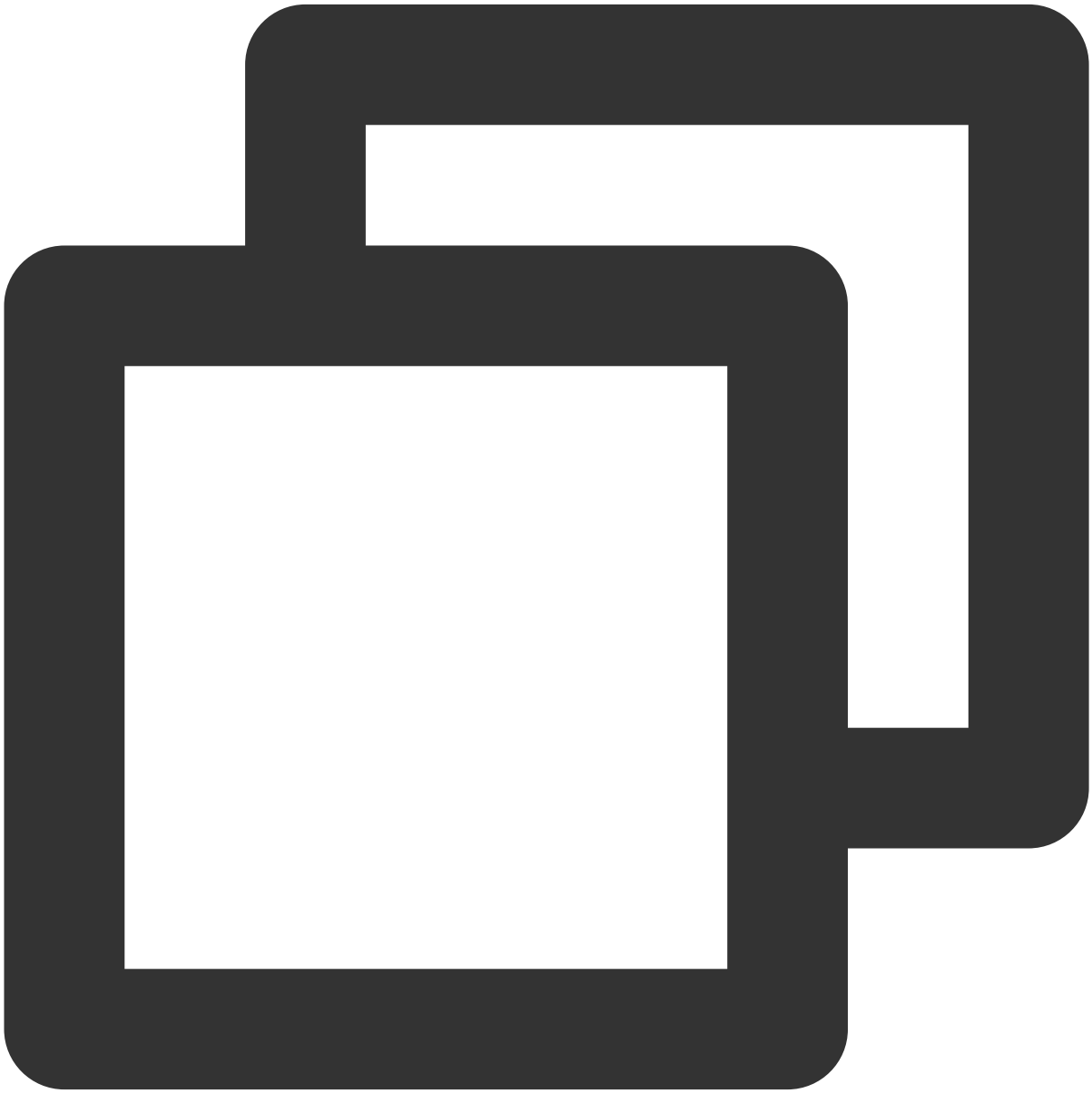

```
GET /file_jobs/f93984788066911ed89ed352d4d9d2084 HTTP/1.1
Accept: */*
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response

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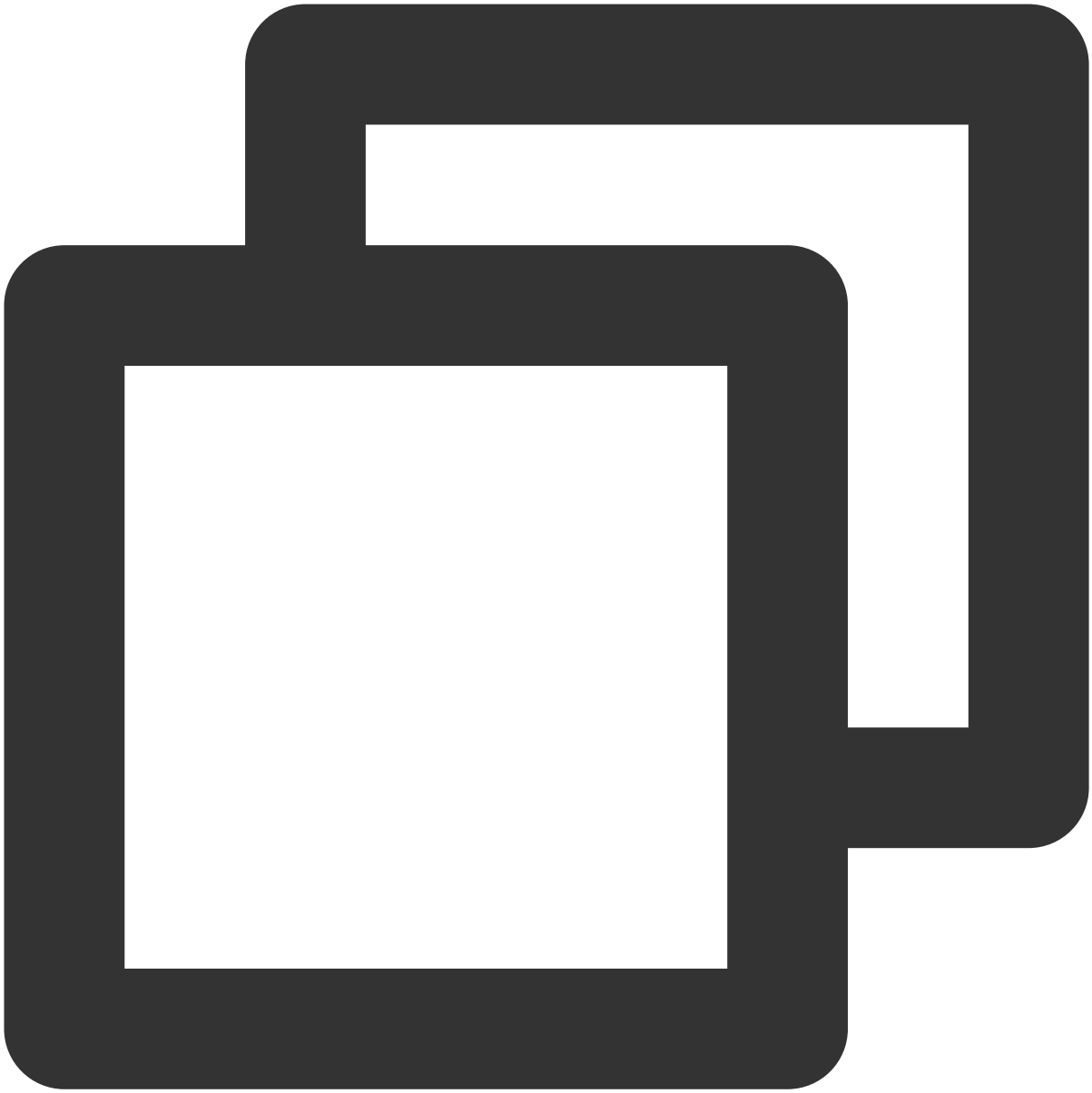

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 18 Jul 2022 19:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjc=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileUncompress</Tag>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/test.zip</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <FileUncompressConfig>
                <Prefix>output/</Prefix>
                <PrefixReplaced>1</PrefixReplaced>
            </FileUncompressConfig>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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Multi-File Zipping
Submitting Multi-File Zipping Job

Last updated：2024-06-12 15:27:04

Overview

The multi-file zipping feature uses a POST request to zip multiple files into a compressed file such as a ZIP file. You can submit a job to zip multiple files and asynchronously return the compressed file.

Billing Description

Calling the API will incur multi-file zipping fees and COS read request fees as described in Request Fees.
If the files are stored in COS STANDARD_IA storage class, calling the API will incur STANDARD_IA data retrieval fees as described in Data Retrieval Fees.
Zipping is not supported for files stored in the ARCHIVE or DEEP ARCHIVE storage classes. To zip these files, you first need to restore them as instructed in POST Object restore.

Restrictions

Supported file quantity: At most 10,000 files can be zipped.
Supported file size: The total size of the compressed file is less than 50 GB.
Calling the API requires a signature. For more information, see Request Signature.

Request

Sample request

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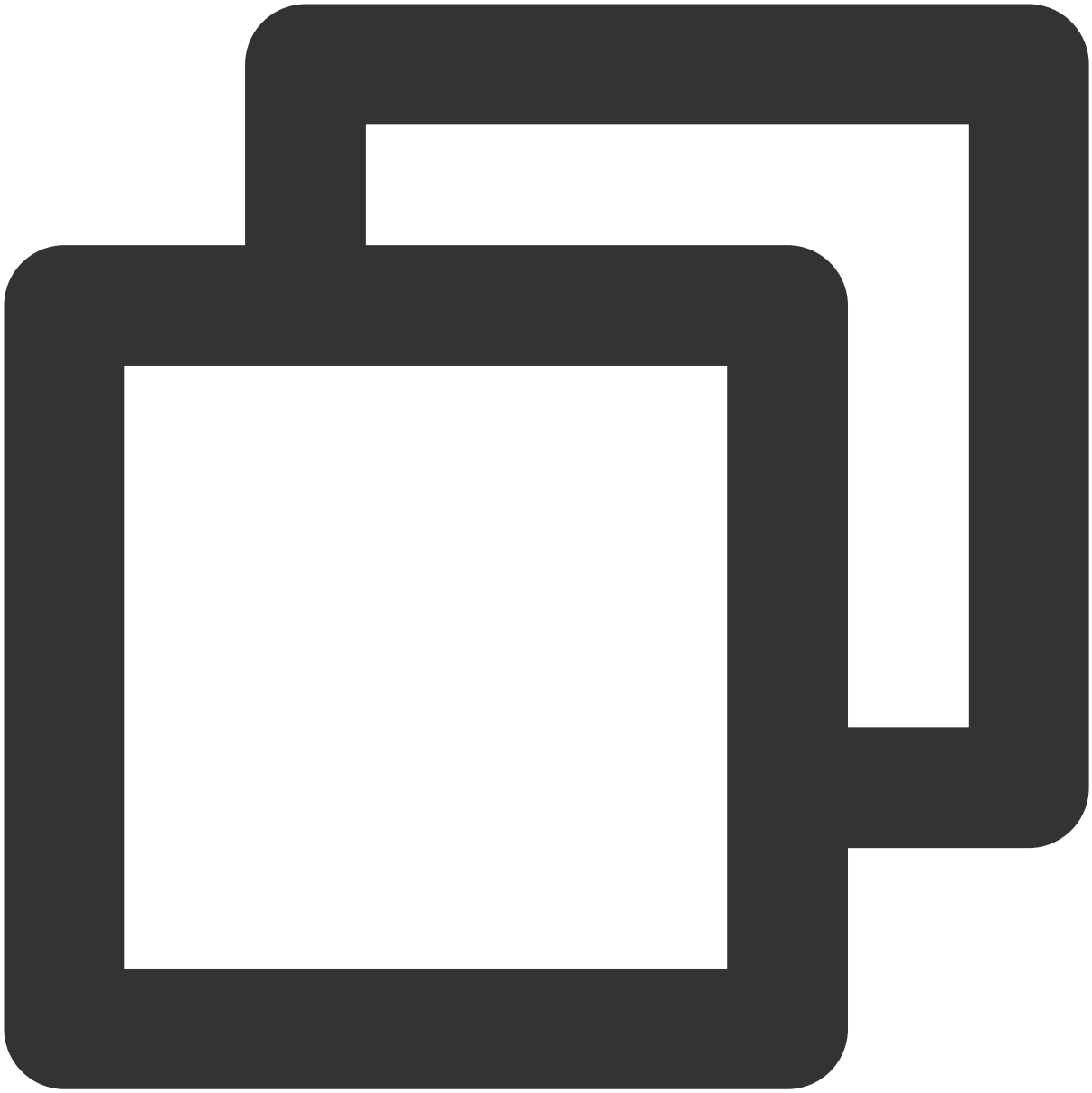

```
POST /file_jobs HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (For more information, see Request Signature.)

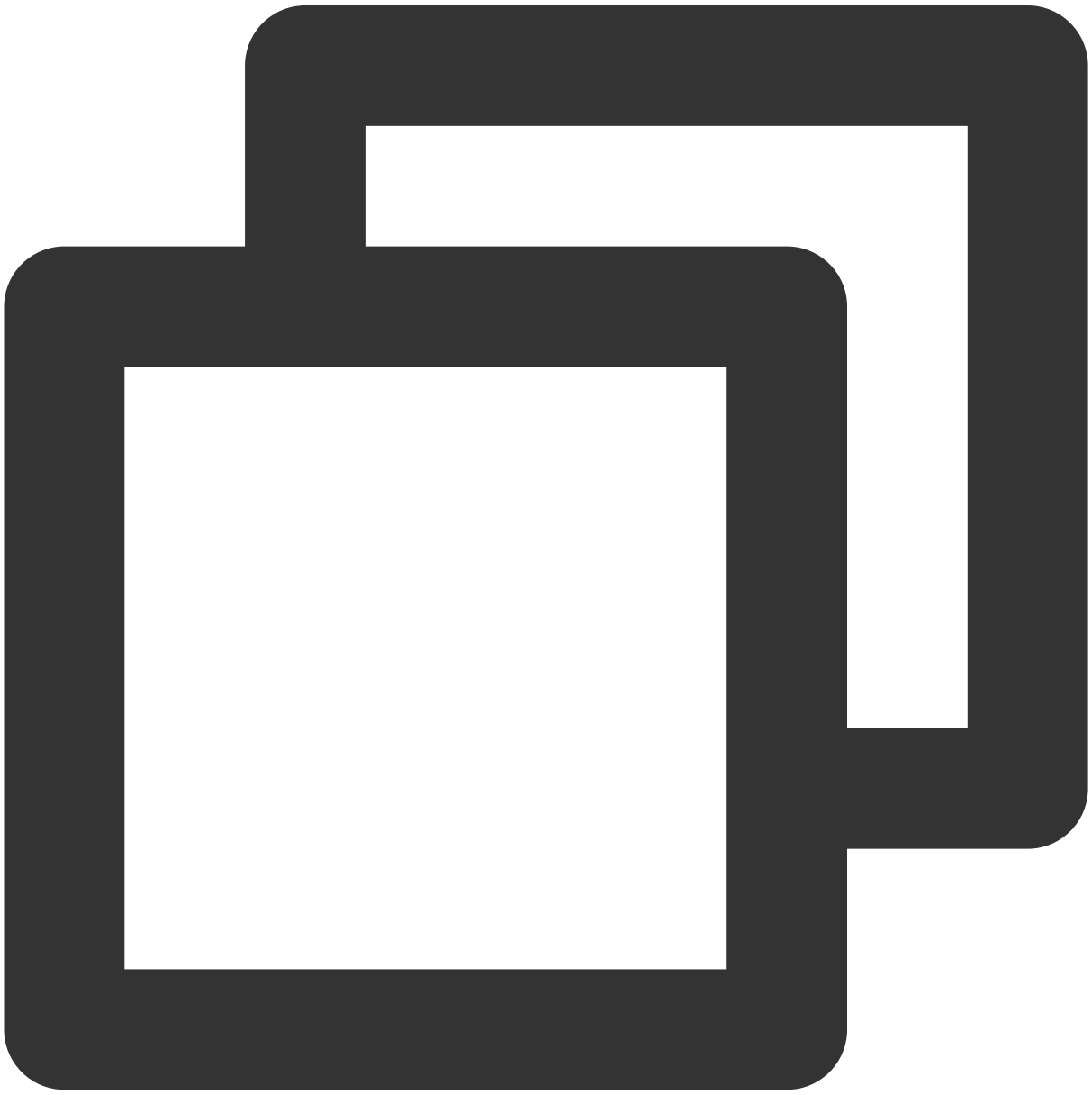
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>FileCompress</Tag>
    <Operation>
        <FileCompressConfig>
            <Prefix>test/</Prefix>
            <Format>zip</Format>
            <Flatten>0</Flatten>
        </FileCompressConfig>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-1234567890</Bucket>
            <Object>output/test.zip</Object>
        </Output>
        <UserData>This is my data.</UserData>
    </Operation>
    <QueueId>p2911917386e148639319e13c285cc774</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job type. It is `FileCompress` for multi-file zipping by default.	String	Yes
Operation	Request	File zipping rule.	Container	Yes
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default) or `TDMQ` . It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address. It takes higher priority over that of the queue.	String	No

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CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure > CallBackMqConfig, which is required if `CallBackType` is `TDMQ`.	Container	No

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
FileCompressConfig	Request.Operation	File zipping rule	Container	Yes
UserData	Request.Operation	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No
Output	Request.Operation	Address where the compressed file is stored	Container	Yes

`FileCompressConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Flatten	Request.Operation.FileCompressConfig	Whether to remove the directory structure of the original file during file zipping. Valid values: - `0`: No. After file zipping, the original directory structure is retained. - `1`: Yes. After file zipping, the original directory structure is removed and all files are at the same level. Assume that the original file URL is `https://domain/source/test.mp4` and the original file directory is `source/test.mp4`. If this parameter is set to `1`, the file directory in the ZIP file is `test.mp4`. If this parameter is set to `0`, the file directory in the ZIP file is `source/test.mp4`.	String
Format	Request.Operation.FileCompressConfig	Zipping type. Valid values: `zip`, `tar`, `tar.gz`	String

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UrlList	Request.Operation.FileCompressConfig	Files to be zipped can be sorted into an index file. The backend zips the files into a compressed file according to the file URL provided in the index file. The index file must be saved in the current bucket, and this field must provide the object address of the index file, for example, `/test/index.csv`. Index file format: Only CVS files in which one URL occupies one row (only files in the bucket are supported) are supported. If there are multiple columns, the first column is used as the URL by default. The number of files cannot exceed 10,000 and the total size cannot exceed 50 GB. Otherwise, the job will fail.	String
Prefix	Request.Operation.FileCompressConfig	Files with a specified prefix in the bucket can be zipped. To zip files in a specified directory, add / to the directory. For example, to zip files in the `test` directory, set this parameter to `test/`. The number of files cannot exceed 10,000 and the total size cannot exceed 50 GB. Otherwise, the job will fail.	String
Key	Request.Operation.FileCompressConfig	Multiple files in the bucket can be zipped. The number of files cannot exceed 1,000 and the total size cannot exceed 50 GB. Otherwise, the job will fail.	String array

Note:

Only one of UrlList, Prefix, and Key can be selected. They cannot all be empty or do not take effect at the same time. If multiple parameters are specified, the parameter with the highest priority prevails according to the priority UrlList > Prefix > Key.

`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Region	Request.Operation.Output	Bucket region	String	Yes
Bucket	Request.Operation.Output	Bucket where the compressed file is stored	String	Yes
Object	Request.Operation.Output	Name of the compressed file	String	Yes

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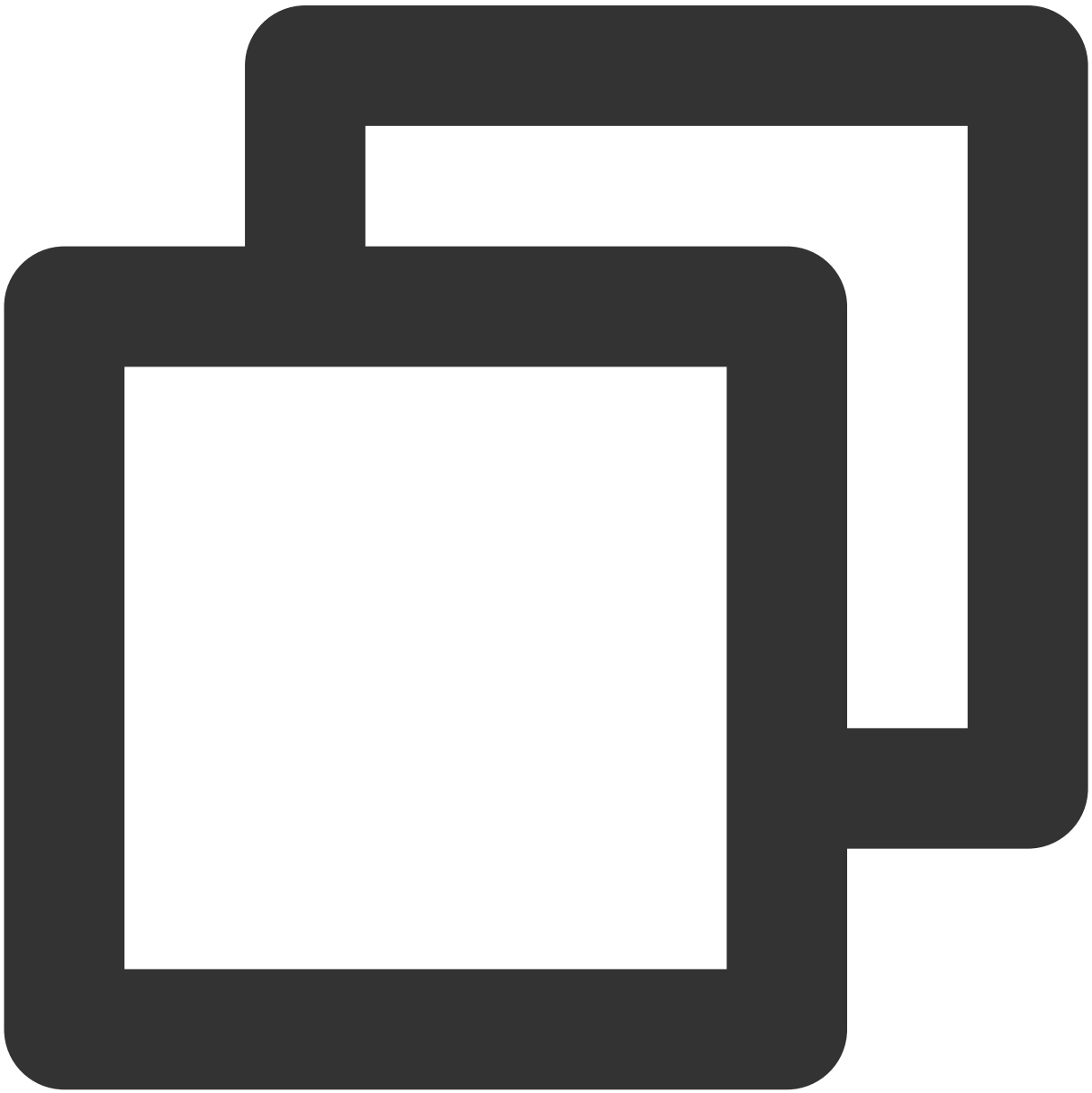
Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <JobsDetail>
```

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```
        <Code>Success</Code>
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileCompress</Tag>
        <Operation>
            <FileCompressConfig>
                <Prefix>test/</Prefix>
                <Format>zip</Format>
                <Flatten>0</Flatten>
            </FileCompressConfig>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>output/test.zip</Object>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is returned only if `State` is `Failed`	String
Message	Response.JobsDetail	Error message, which is returned only if `State` is `Failed`	String

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JobId	Response.JobsDetail	Job ID	String
Tag	Response.JobsDetail	Job type. It is `FileCompress` for multi-file zipping by default.	String
State	Response.JobsDetail	Job status. Valid values: `Submitted` (submitted), `Running` (running), `Success` (successful), `Failed` (failed), `Pause` (paused), `Cancel` (canceled)	String
CreationTime	Response.JobsDetail	Job creation time	String
StartTime	Response.JobsDetail	Job start time	String
EndTime	Response.JobsDetail	Job end time	String
QueueId	Response.JobsDetail	ID of the queue where the job is in	String
Operation	Response.JobsDetail	Multi-file zipping rule	Container

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
UserData	Response.JobsDetail.Operation	The user information passed through.
Output	Response.JobsDetail.Operation	Same as `Request.Operation.Output` in the request.
FileCompressConfig	Response.JobsDetail.Operation	Same as `Request.Operation.FileCompressConfig` in the request.
FileCompressResult	Response.JobsDetail.Operation	Multi-file zipping result, which will not be returned when the job is not completed.

`FileCompressResult` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.JobsDetail.Operation.FileCompressResult	Region of the bucket where the compressed file is stored	String

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Bucket	Response.JobsDetail.Operation.FileCompressResult	Bucket where the compressed file is stored	String
Object	Response.JobsDetail.Operation.FileCompressResult	Name of the compressed file	String

Error codes

There are no specific error messages for this request operation. For common error messages, see Error Codes.

Examples

Request

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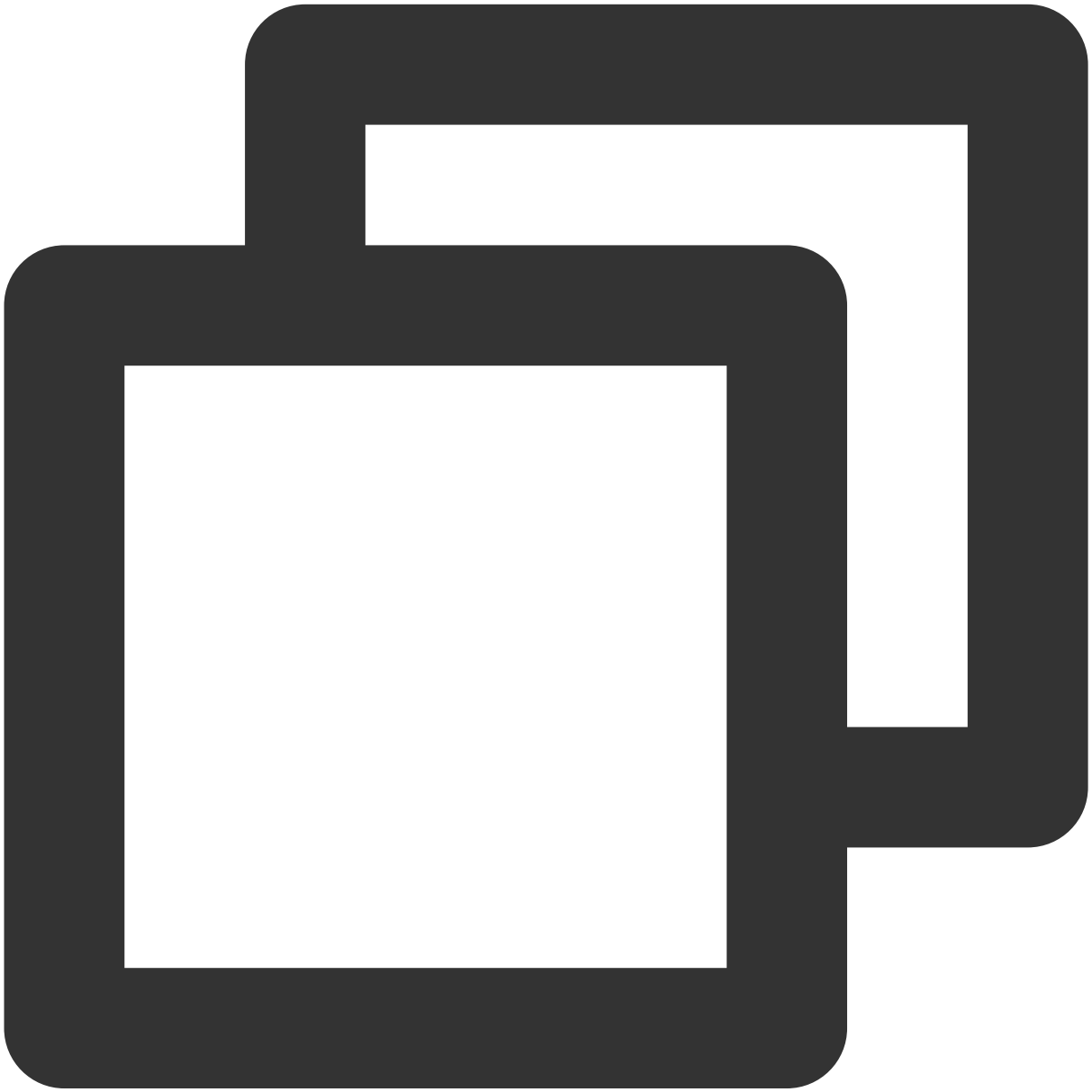

```
POST /file_jobs HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Tag>FileCompress</Tag>
    <Operation>
        <FileCompressConfig>
            <Prefix>test/</Prefix>
```

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```
            <Format>zip</Format>
            <Flatten>0</Flatten>
        </FileCompressConfig>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-1234567890</Bucket>
            <Object>output/test.zip</Object>
        </Output>
        <UserData>This is my data.</UserData>
    </Operation>
    <QueueId>p2911917386e148639319e13c285cc774</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

Response

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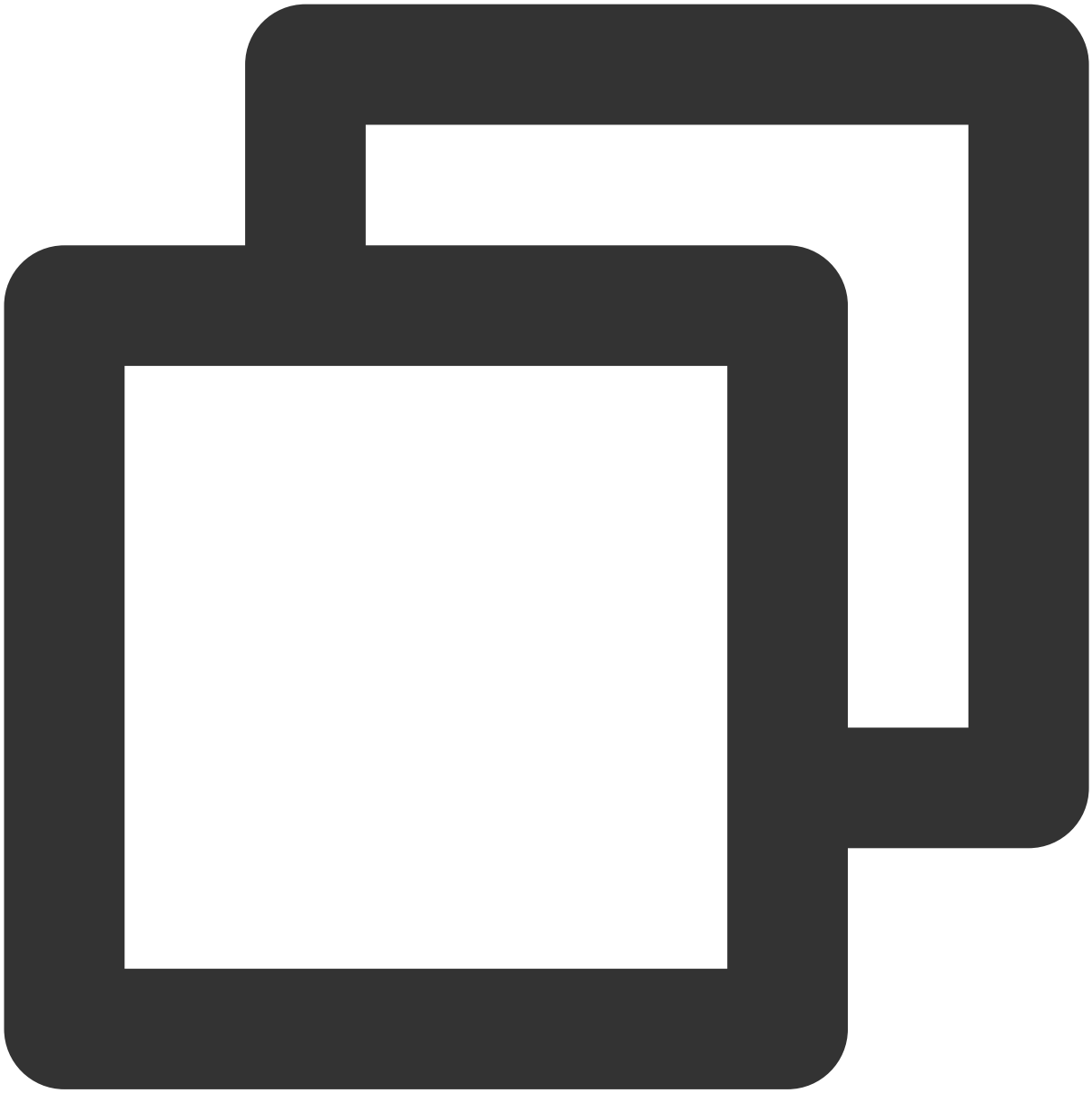

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 18 Jul 2022 19:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjc=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileCompress</Tag>
        <Operation>
            <FileCompressConfig>
                <Prefix>test/</Prefix>
                <Format>zip</Format>
                <Flatten>0</Flatten>
            </FileCompressConfig>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>output/test.zip</Object>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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Querying Multi-File Zipping Result

Last updated：2024-06-12 15:27:04

Overview

This API is used to query the result of a specified multi-file zipping job.

Request

Sample request

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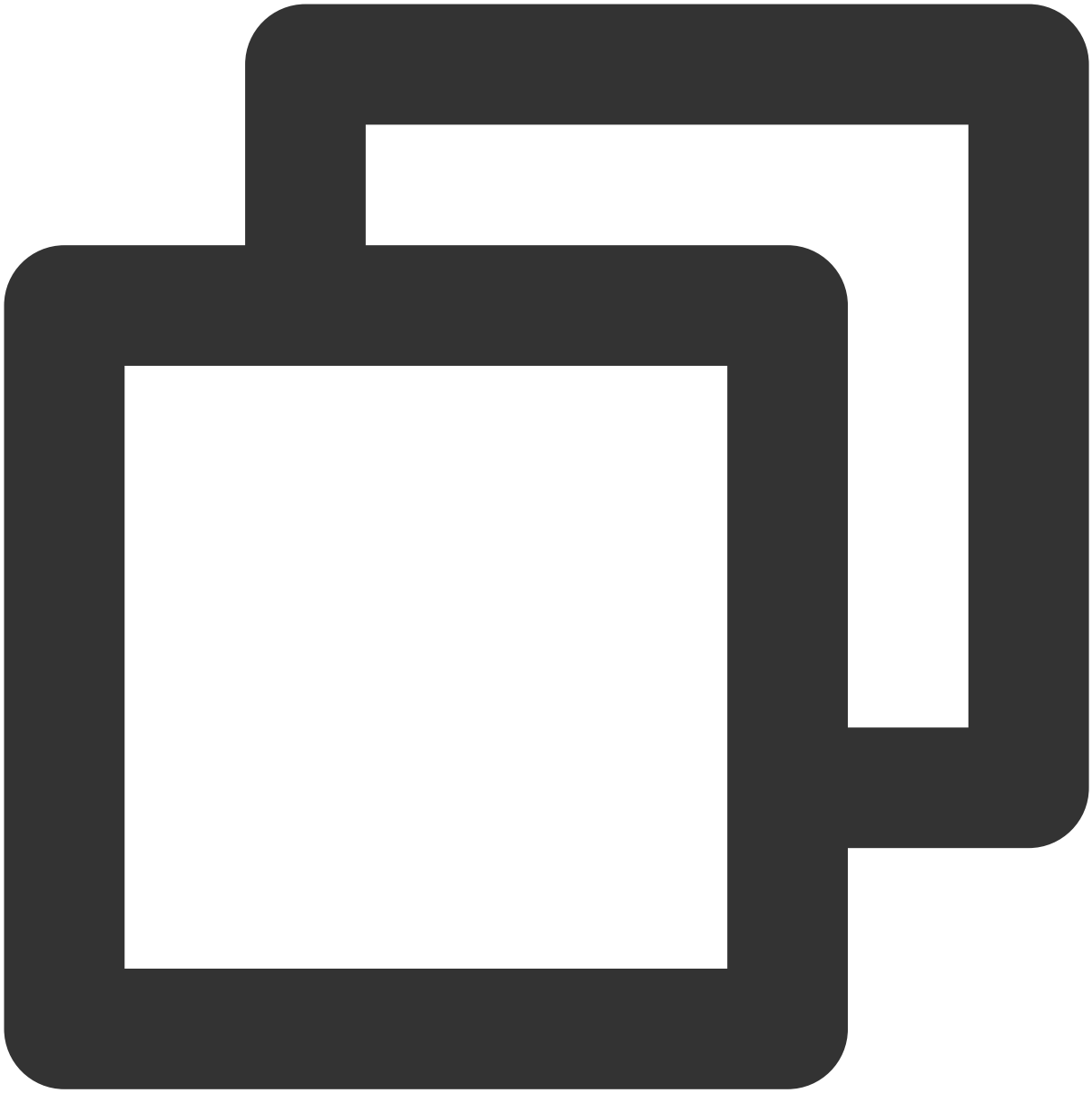

```
GET /file_jobs/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (For more information, see Request Signature.)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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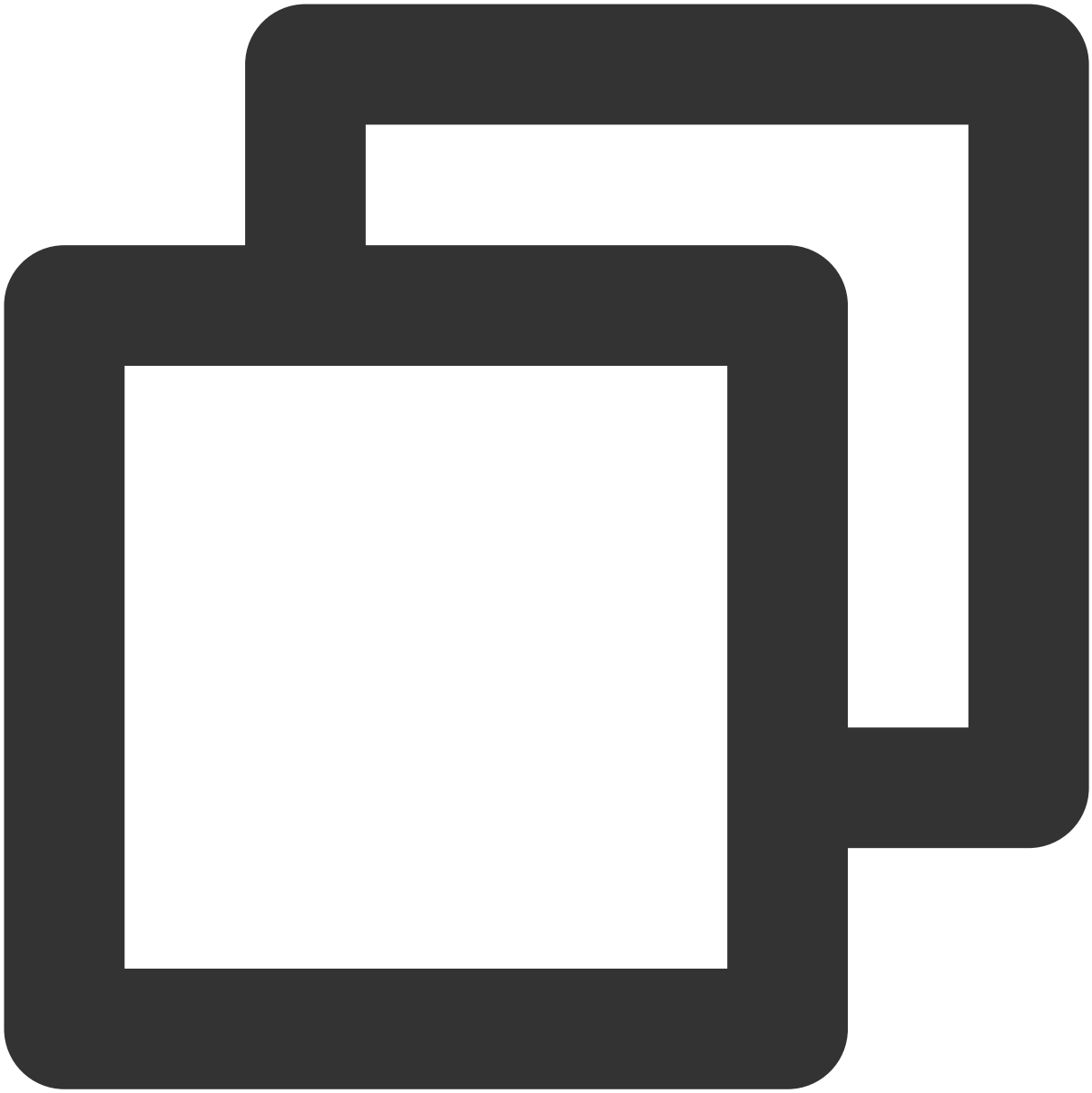

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileCompress</Tag>
```

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```
        <Operation>
            <FileCompressConfig>
                <Prefix>test/</Prefix>
                <Format>zip</Format>
                <Flatten>0</Flatten>
            </FileCompressConfig>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>output/test.zip</Object>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container
NonExistJobIds	Response	List of non-existing job IDs queried. If all jobs exist, this node is not returned.	String

For specific parameter values, see `JobsDetail` in Multi-File Zipping.

Error codes

No special error message will be returned for this request. For the common error messages, see Error Codes.

Examples

Request

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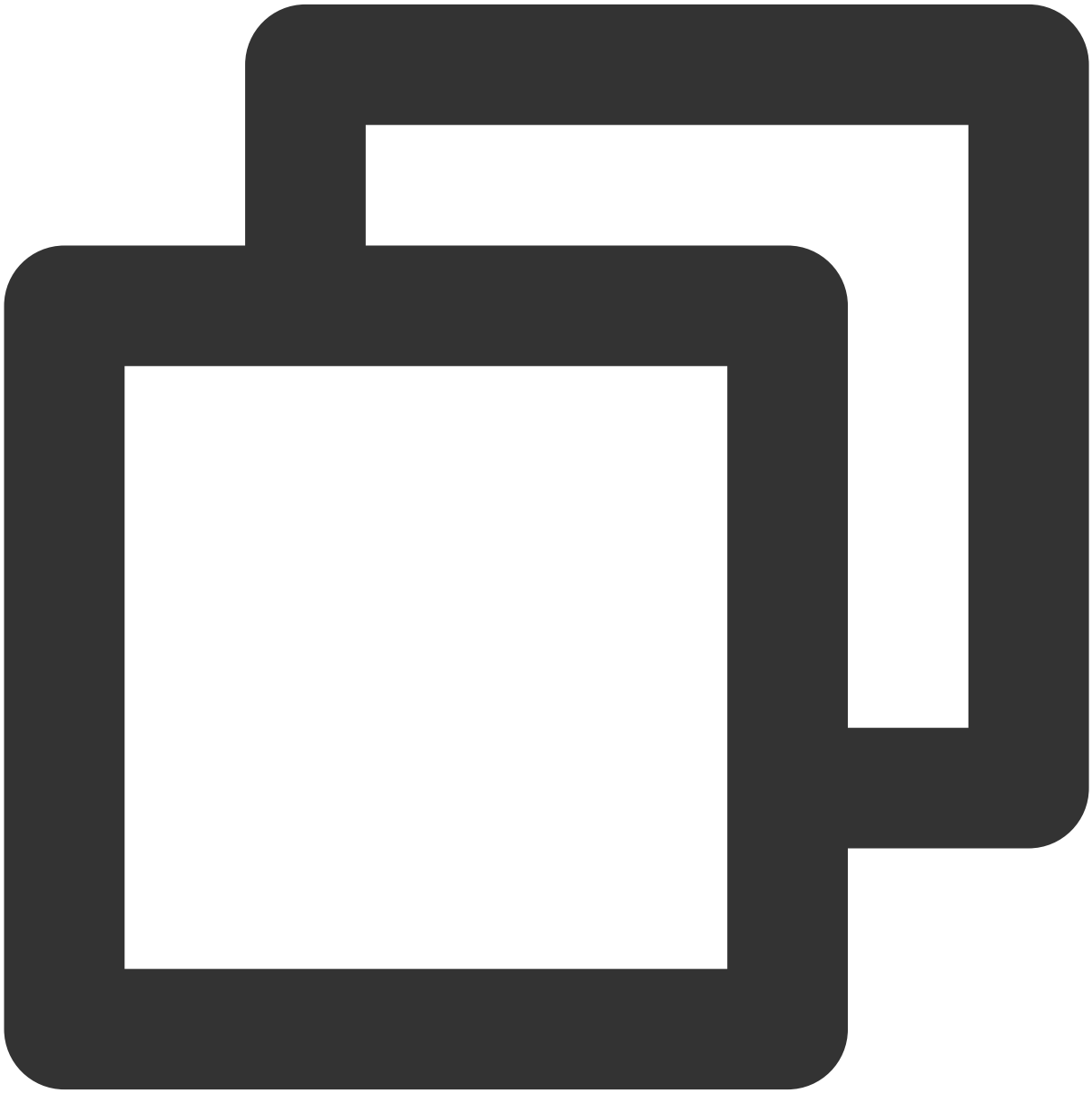

```
GET /file_jobs/f93984788066911ed89ed352d4d9d2084 HTTP/1.1
Accept: */*
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response

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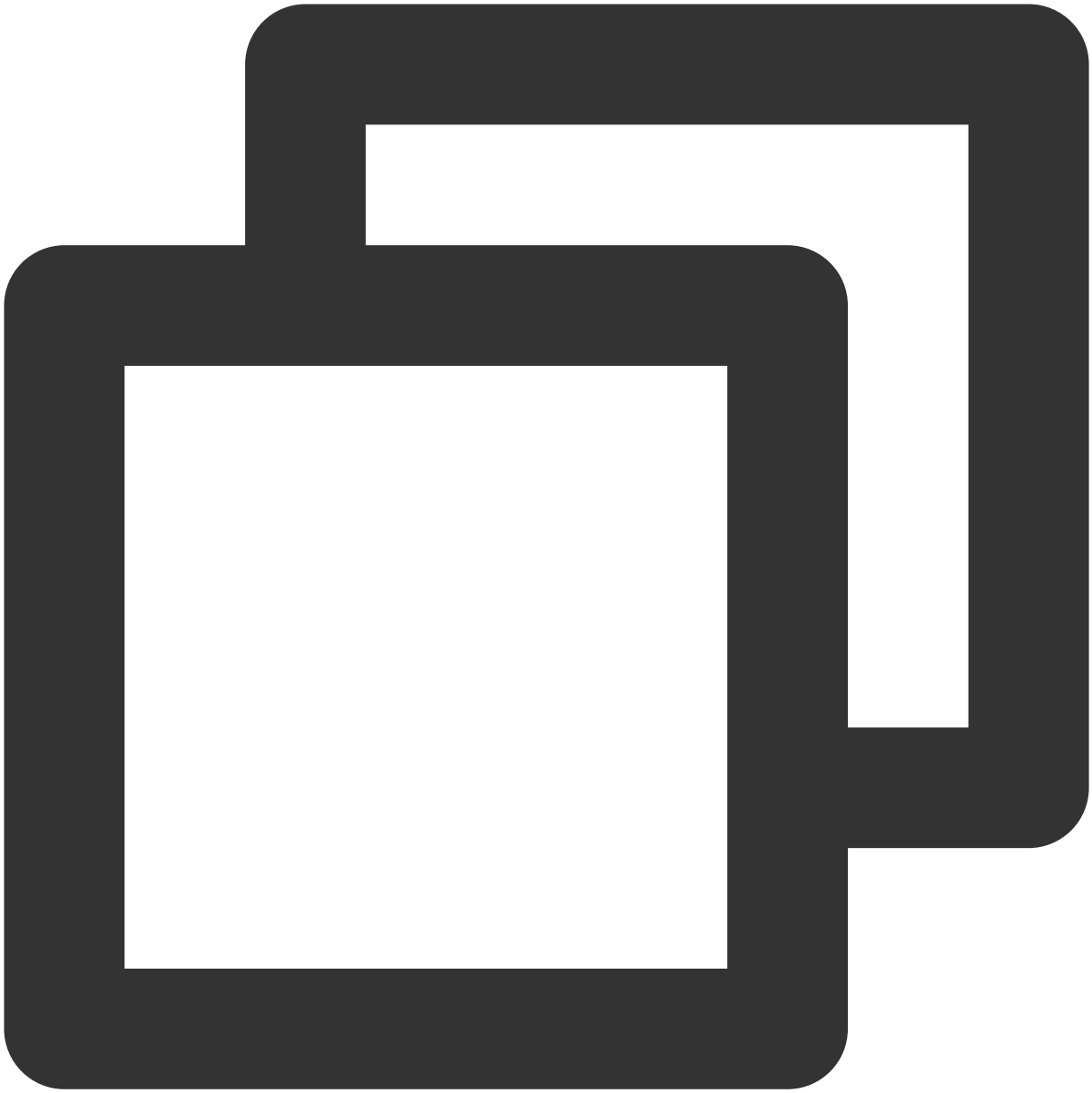

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 18 Jul 2022 19:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjc=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>f93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>FileCompress</Tag>
        <Operation>
            <FileCompressConfig>
                <Prefix>test/</Prefix>
                <Format>zip</Format>
                <Flatten>0</Flatten>
            </FileCompressConfig>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>output/test.zip</Object>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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Job and Workflow
Common Request Headers

Last updated：2024-06-12 15:31:54

Overview

This document describes common request headers that may be used in API requests. The headers mentioned below will not be addressed again in related API documents.

Request Headers

Header	Description	Type	Required
Authorization	Carries the authentication information, i.e., signing information, used to verify the validity of a request	string	Yes
Content-Length	Length in bytes of the content of an HTTP request defined in RFC 2616	integer	NoRequired for PUT and POST requests
Content-Type	Content type (MIME) of an HTTP request as defined in RFC 2616, such as application/xml	string	NoRequired for PUT and POST requests with a request body
Content-MD5	Base64-encoded MD5 hash value of the request body content as defined in RFC 1864, such as ZzD3iDJdrMAAb00lgLLeig==. The value is used to verify whether the request body experienced any changes during transfer.	string	No
Date	Current time in GMT as defined in RFC 1123, such as Wed, 29 May 2019 04:10:12 GMT	string	No
Host	Requested host in the format of <BucketName-APPID>.ci.<Region>.myqcloud.com	string	Yes
x-ci-security-token	Security token field required when using temporary security credentials	string	NoRequired when a temporary key is used and the

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			authentication information is carried through Authorization

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Common Response Headers

Last updated：2024-06-12 15:31:54

Overview

This document describes common response headers that may be used in API requests. The headers mentioned below will not be addressed again in related API documents.

Response Headers

Header	Description	Type
Content-Length	HTTP response length in bytes as defined in RFC 2616	string
Content-Type	HTTP response type (MIME) as defined in RFC 2616	string
Connection	Indicates whether the network connection will be turned off after the response is complete, defined in RFC 2616. Enumerated values: `keep-alive`, `close`.	Enum
Date	Server response time in GMT format as defined in RFC 1123, such asWed, 29 May 2019 04:10:12 GMT	string
Server	Name of the server that accepts the request and returns the response. Default value: tencent-ci	string
x-ci-request-id	ID automatically generated by the server for each request when the request is sent	string
x-ci-trace-id	ID automatically generated by the server for each error when a request fails. This header will be included in the response only if the request has failed.	string

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Error Codes

Last updated：2024-06-12 15:31:54

Overview

This document describes the error codes and the error messages returned when requests fail.

Error Response

Content-Type: application/xml

HTTP status code: 3XX, 4XX, or 5XX.

Response body

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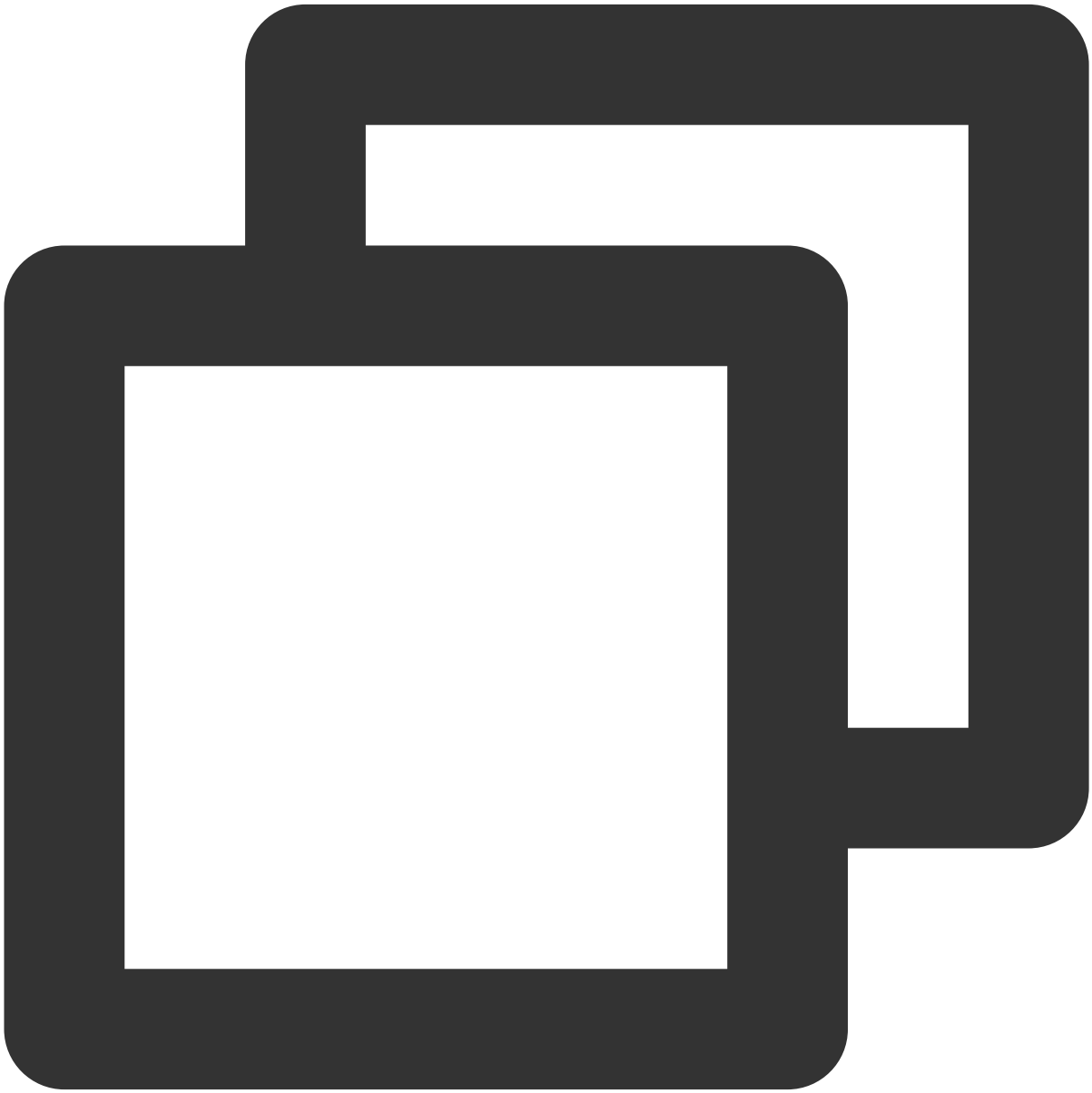

```
<?xml version='1.0' encoding='utf-8' ?>
<Error>
    <Code>string</Code>
    <Message>string</Message>
    <RequestId>string</RequestId>
    <TraceId>string</TraceId>
</Error>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type

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Error	None	All error messages	Container

`Error` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Error	Error code, which uniquely identifies an error condition and determines the error scenario. Error codes are described in detail below.	string
Message	Error	Specific error message	string
RequestId	Error	ID automatically generated by the server for a request when the request is sent, which can be used to facilitate fault locating	string
TraceId	Error	ID automatically generated by the server for a request when a request error occurs, which can be used to facilitate fault locating	string

Error Codes

3XX errors

Error Code	Description	HTTP Status Code
PermanentRedirect	The resource has been permanently relocated. Please use the `HTTP Location` response header to get redirected to the correct location	301 Moved Permanently
TemporaryRedirect	The resource has been temporarily relocated. Please use the `HTTP Location` response header to get redirected to the correct location	307 Temporary Redirect

4xx errors

Error Code	Description	HTTP Status Code
InvalidArgument	Some parameters of the request do not meet requirements.	400 Bad Request
MissingContent	Packet missing.	400 Bad Request
InvalidContent	The packet sent is in incorrect format or is inconsistent with the value of Content-MD5.	400 Bad Request

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InvalidHost	Host authentication failed.	400 Bad Request
ResourceNotFound	The specified input resource does not exist.	400 Bad Request
ResourceAccessDenied	You have no permission to operate the specified resource. Check whether the permission is granted.	400 Bad Request
ResourceDownloadFailed	Downloading the specified input resource failed.	400 Bad Request
CIRoleNotExist	The CI role `CI_QCSRole` does not exist.	400 Bad Request
ResourceNotSupported	The file is faulty or unsupported.	400 Bad Request
MissingAuthorization	Authorization missing.	401 Unauthorized
InvalidAuthorization	Incorrect format of Authorization.	401 Unauthorized
AccessDenied	No permission.	401 Unauthorized
SecretidNotExist	The key does not exist.	401 Unauthorized
SignatureExpired	The signature has expired.	401 Unauthorized
AccessDenied	The operation is prohibited.	403 Forbidden
MediaBucketAlreadyBinded	The bucket is already bound.	403 Forbidden
QueueSaturated	The queue is full.	403 Forbidden
QueuePaused	The queue is suspended.	403 Forbidden
InvalidUrl	The request URL format is incorrect.	404 Not Found
AuditingJobNotFound	The audit job does not exist.	404 Not Found
MissingContentLength	The Content-Length request header is missing.	411 Length Required
InvalidContent	The sent packet is too large.	413 Payload Too Large
SlowDown	Please decrease the access frequency.	429 Too Many Requests
UnavailableForLegalReasons	Unavailable due to legal reasons. Please submit a ticket.	451 Unavailable For Legal Reasons

5xx errors

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Error Code	Description	HTTP Status Code
InternalError	Internal server error.	500 Internal Server
NotImplemented	The request has not been implemented.	501 Not Implemented
ServiceUnavailable	The service is temporarily unavailable. Please try again.	503 Service Unavailable

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Workflow APIs

Create a workflow

Last updated：2024-06-12 15:31:54

Overview

Create a workflow

Request

Sample request

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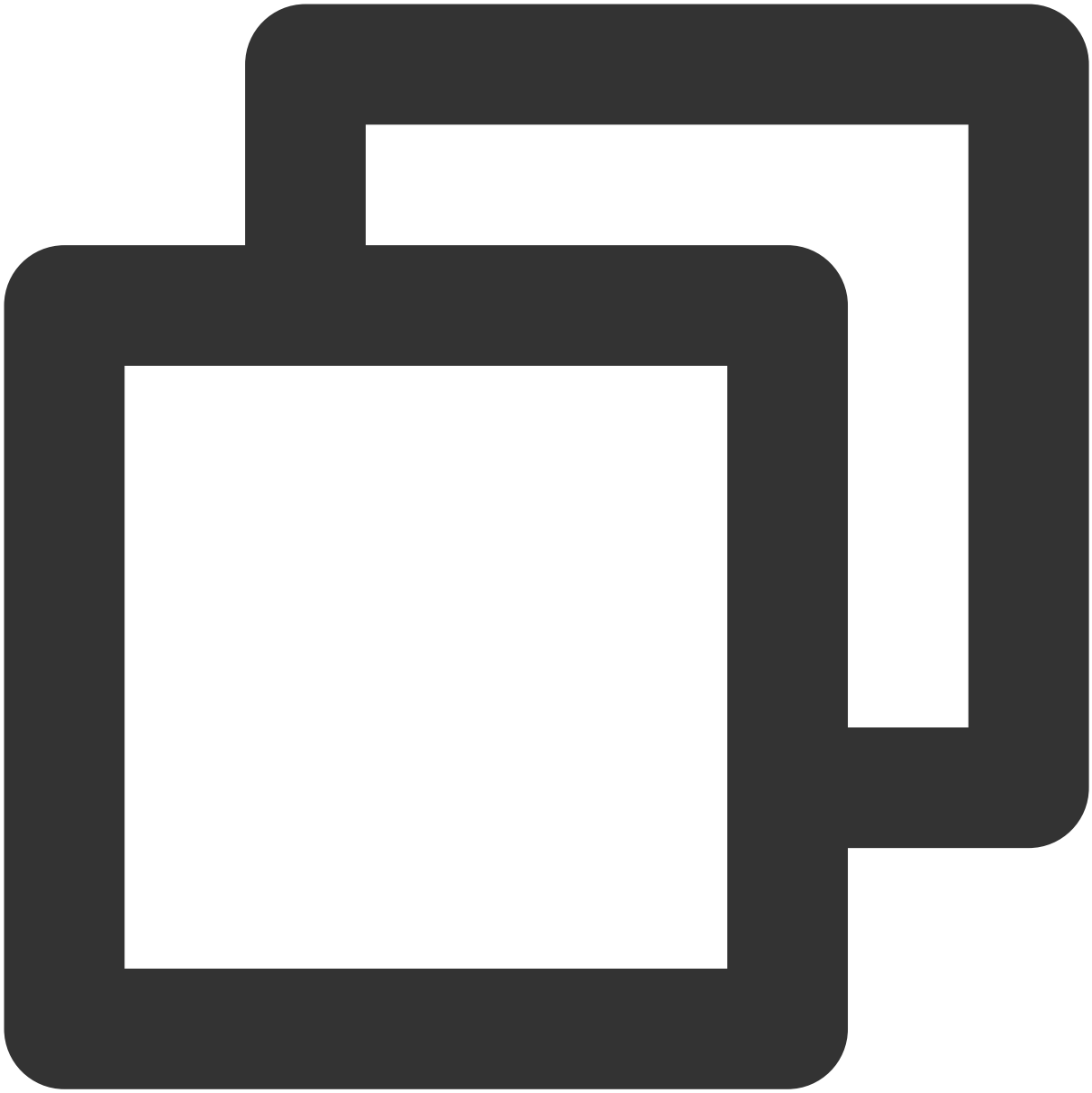

```
POST /workflow HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (See Request Signature for details.)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:

Request body 1

Request body 2

Screencapturing and transcoding the input video file, performing remuxing and intelligent thumbnail generation on the output file, and then performing image processing on the generated thumbnail.

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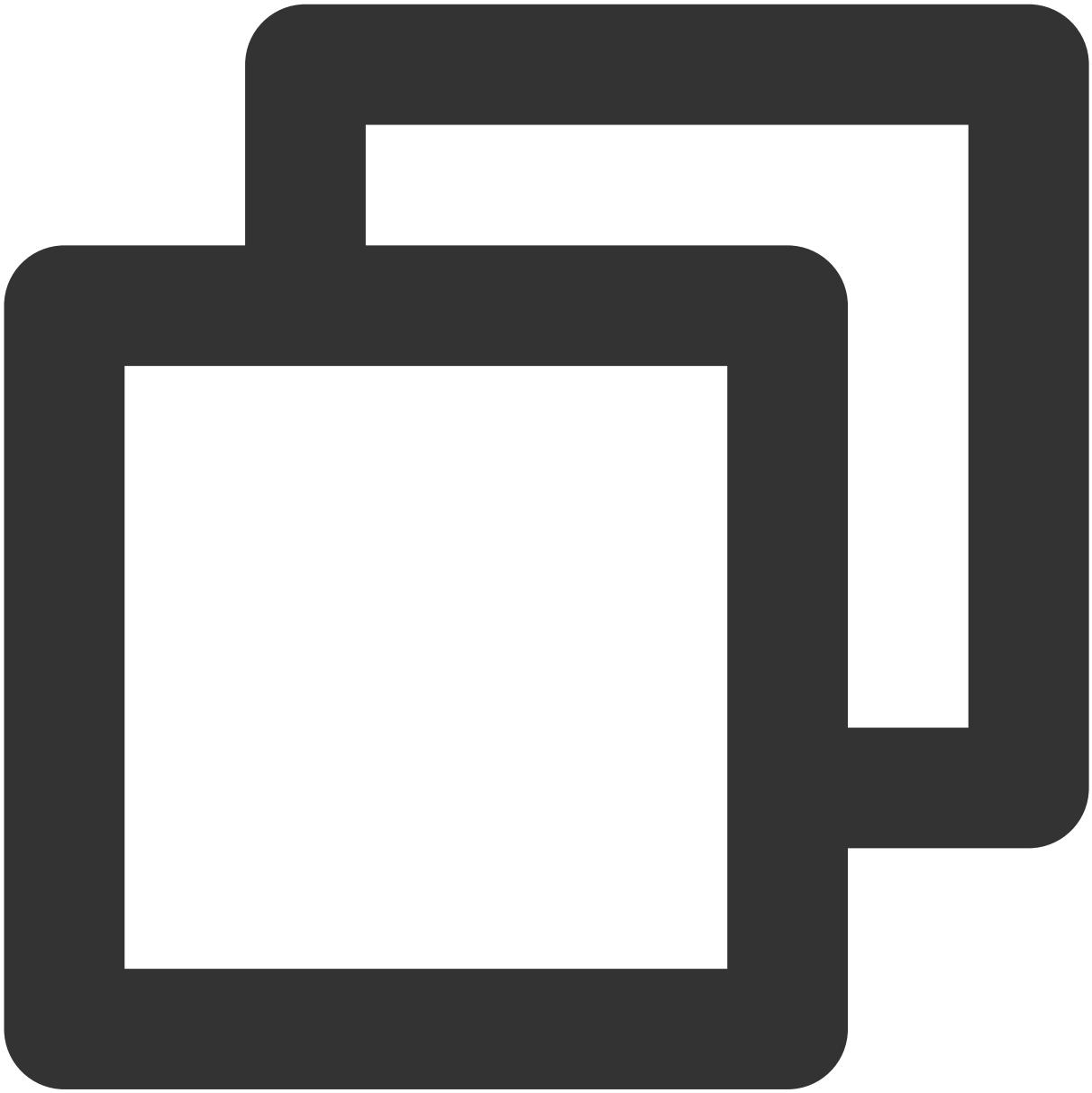

```
<Request>
    <MediaWorkflow>
        <Name>workflow-1</Name>
        <State>Active</State>
        <Topology>
            <Dependencies>
                <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
                <Segment_15816659605667>End</Segment_15816659605667>
                <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
```

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```
            <PicProcess_15816659605668>End</PicProcess_15816659605668>
        </Dependencies>
        <Nodes>
            <Start>
                <Type>Start</Type>
                <Input>
                    <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                    <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                    <ObjectPrefix>input/workflow-1</ObjectPrefix>
                    <NotifyConfig>
                        <State>On</State>
                        <Url>http://www.callback.com</Url>
                        <Event>TaskFinish,WorkflowFinish</Event>
                        <Type>Url</Type>
                        <ResultFormat>JSON</ResultFormat>
                    </NotifyConfig>
                    <ExtFilter>
                        <State>On</State>
                        <Video>true</Video>
                        <Audio>false</Audio>
                        <Image>false</Image>
                        <Custom>false</Custom>
                        <AllFile>false</AllFile>
                    </ExtFilter>
                </Input>
            </Start>
            <Snapshot_1581665960536>
                <Type>Snapshot</Type>
                <Operation>
                    <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                        <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                    </Output>
                </Operation>
            </Snapshot_1581665960536>
            <Transcode_1581665960538>
                <Type>Transcode</Type>
                <Operation>
                    <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>bcd/${RunId}/trans.{Ext}</Object>
                    </Output>
```

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```
                    </Operation>
                </Transcode_1581665960538>
                <Segment_15816659605667>
                    <Type>Segment</Type>
                    <Operation>
                        <Segment>
                            <Format>mkv</Format>
                            <Duration>20</Duration>
                        </Segment>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>test-trans${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </Segment_15816659605667>
                <SmartCover_1581665960539>
                    <Type>SmartCover</Type>
                    <Operation>
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </SmartCover_1581665960539>
                <PicProcess_15816659605668>
                    <Type>PicProcess</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Request>
```

Adaptive bitrate streaming

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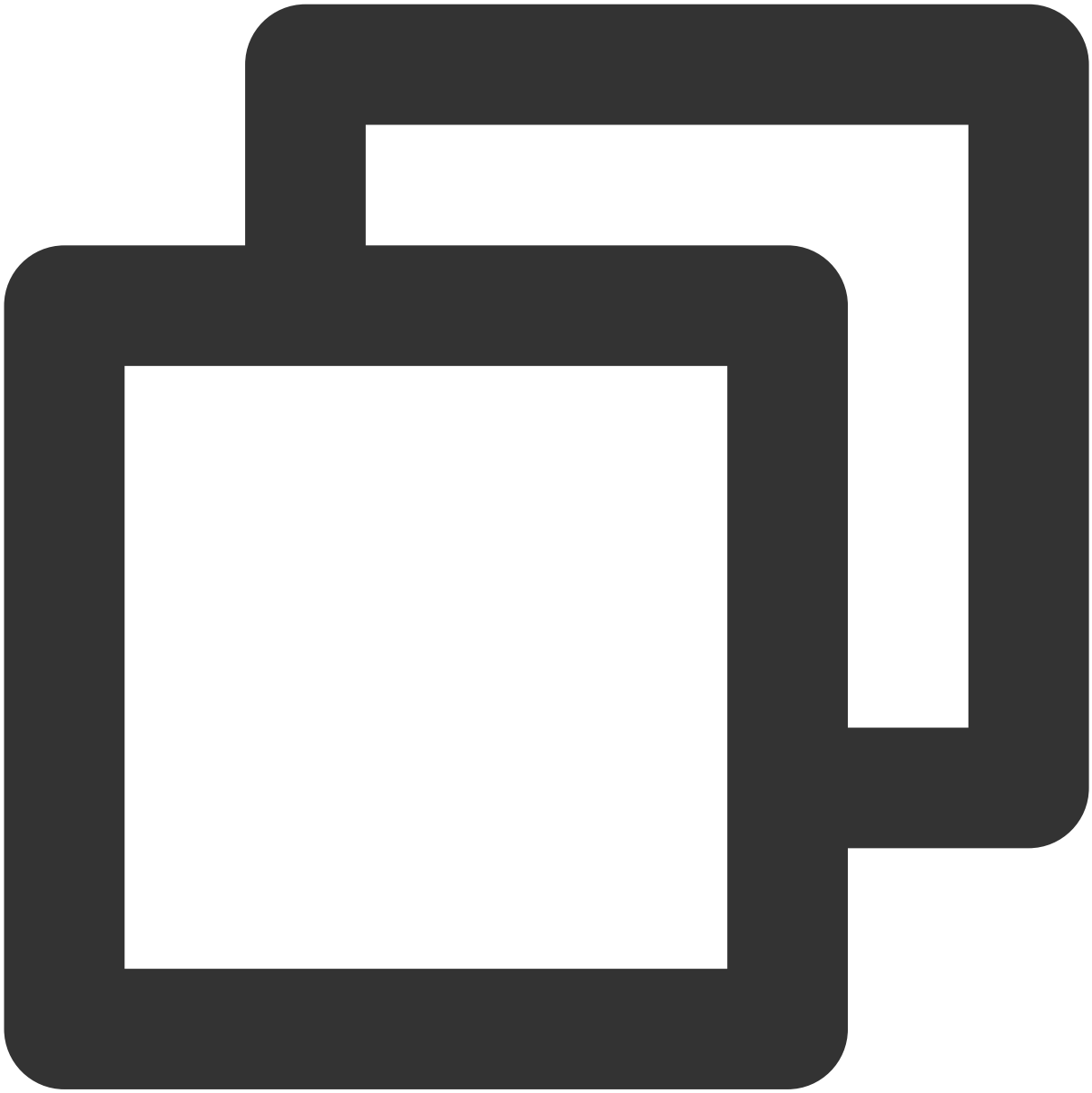

```
<Request>
    <MediaWorkflow>
        <Name>workflow-2</Name>
        <State>Active</State>
        <Topology>
            <Dependencies>
                <Start>StreamPackConfig_1581665960532</Start>
                <StreamPackConfig_1581665960532>VideoStream_1581665960536,VideoStre
                <VideoStream_1581665960536>StreamPack_1581665960538</VideoStream_15
                <VideoStream_1581665960537>StreamPack_1581665960538</VideoStream_15
                <StreamPack_1581665960538>End</StreamPack_1581665960538>
```

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```
        </Dependencies>
        <Nodes>
            <Start>
                <Type>Start</Type>
                <Input>
                    <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                    <ObjectPrefix>input/workflow-2</ObjectPrefix>
                    <NotifyConfig>
                        <State>On</State>
                        <Url>http://www.callback.com</Url>
                        <Event>TaskFinish,WorkflowFinish</Event>
                        <Type>Url</Type>
                        <ResultFormat>JSON</ResultFormat>
                    </NotifyConfig>
                    <ExtFilter>
                        <State>On</State>
                        <Video>true</Video>
                        <Audio>false</Audio>
                        <Image>false</Image>
                        <Custom>false</Custom>
                        <AllFile>false</AllFile>
                    </ExtFilter>
                </Input>
            </Start>
            <StreamPackConfig_1581665960532>
                <Type>StreamPackConfig</Type>
                <Operation>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>${InputPath}/${InputName}._${RunId}.${ext}</Obj
                    </Output>
                    <StreamPackConfig>
                        <PackType>HLS</PackType>
                        <IgnoreFailedStream>true</IgnoreFailedStream>
                    </StreamPackConfig>
                </Operation>
            </StreamPackConfig_1581665960532>
            <VideoStream_1581665960536>
                <Type>VideoStream</Type>
                <Operation>
                    <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>${RunId}_Substream_1/video.m3u8</Object>
                    </Output>
```

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```
                    </Operation>
                </VideoStream_1581665960536>
                <VideoStream_1581665960537>
                    <Type>VideoStream</Type>
                    <Operation>
                        <TemplateId>t1460606bgfdg2148c4ab182f55163ba7bj</TemplateId
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${RunId}_Substream_2/video.m3u8</Object>
                        </Output>
                    </Operation>
                </VideoStream_1581665960537>
                <StreamPack_1581665960538>
                    <Type>StreamPack</Type>
                    <Operation>
                        <StreamPackInfo>
                            <VideoStreamConfig>
                                <VideoStreamName>VideoStream_1581665960536</VideoSt
                                <BandWidth>200000000</BandWidth>
                            </VideoStreamConfig>
                            <VideoStreamConfig>
                                <VideoStreamName>VideoStream_1581665960537</VideoSt
                                <BandWidth>200000000</BandWidth>
                            </VideoStreamConfig>
                        </StreamPackInfo>
                    </Operation>
                </StreamPack_1581665960538>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
MediaWorkflow	Request	Workflow node	Container	Yes

`MediaWorkflow` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Name	Request.MediaWorkflow	Workflow name	String	Yes	The value can be up to 128 characters in length and contain Chinese characters, letters, digits, dashes (-), and underscores (_).
State	Request.MediaWorkflow	Workflow status	String	No	Paused/Active
Topology	Request.MediaWorkflow	Topology information	Container	Yes	None

`Topology` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Dependencies	Request.MediaWorkflow.Topology	Node dependencies.	Container	Yes	None
Nodes	Request.MediaWorkflow.Topology	Node list.	Container	Yes	None

`Nodes` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Require
Start	Request.MediaWorkflow.Topology.Nodes	Start node	Container	Support
Animation_***	Request.MediaWorkflow.Topology.Nodes	Animated image type node	Container	No
Snapshot_***	Request.MediaWorkflow.Topology.Nodes	Screenshot type node	Container	No

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SmartCover_***	Request.MediaWorkflow.Topology.Nodes	Intelligent thumbnail node	Container	No
Transcode_***	Request.MediaWorkflow.Topology.Nodes	Transcoding node	Container	No
Concat_***	Request.MediaWorkflow.Topology.Nodes	Audio/Video splicing node	Container	No
VoiceSeparate_***	Request.MediaWorkflow.Topology.Nodes	Voice/Sound separation node	Container	No
VideoMontage_***	Request.MediaWorkflow.Topology.Nodes	Video montage node	Container	No
StreamPackConfig_***	Request.MediaWorkflow.Topology.Nodes	Adaptive bitrate streaming node	Container	No

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VideoStream_***	Request.MediaWorkflow.Topology.Nodes	Video substream node	Container	No
StreamPack_***	Request.MediaWorkflow.Topology.Nodes	Adaptive bitrate streaming packaging node	Container	No
SDRtoHDR_***	Request.MediaWorkflow.Topology.Nodes	SDR-to-HDR node	Container	No
VideoProcess_***	Request.MediaWorkflow.Topology.Nodes	Video processing node	Container	No
SCF_***	Request.MediaWorkflow.Topology.Nodes	SCF function node	Container	No

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SuperResolution_***	Request.MediaWorkflow.Topology.Nodes	Super resolution node	Container	No
Segment_***	Request.MediaWorkflow.Topology.Nodes	Audio/Video remuxing node	Container	No
PicProcess_***	Request.MediaWorkflow.Topology.Nodes	Image processing node	Container	No
Tts_***	Request.MediaWorkflow.Topology.Nodes	Text-to-speech node	Container	No
SpeechRecognition_***	Request.MediaWorkflow.Topology.Nodes	Speech recognition node	Container	No
VideoEnhance_***	Request.MediaWorkflow.Topology.Nodes	Video enhancement node	Container	No
Condition_***	Request.MediaWorkflow.Topology.Nodes	Conditional judgment node	Container	No
MediaInfo_***	Request.MediaWorkflow.Topology.Nodes	Media	Container	No

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		information acquisition node		
AIRecognition_***	Request.MediaWorkflow.Topology.Nodes	AI recognition node	Container	No
SegmentVideoBody_***	Request.MediaWorkflow.Topology.Nodes	Video portrait matting	Container	No

`Start` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Requ
Type	Request.MediaWorkflow.Topology.Nodes.Start	Node type	String	Yes
Input	Request.MediaWorkflow.Topology.Nodes.Start	Input information. For more information, see Structure > MediaWorkflow_Topology_Nodes_Start_Input.	Container	Yes

`Animation\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.Animation_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.Animation_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_Animation_***_Operation.

`Snapshot\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description

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Type	Request.MediaWorkflow.Topology.Nodes.Snapshot_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.Snapshot_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_Snapshot_***_Operation.

SmartCover_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.SmartCover_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.SmartCover_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_SmartCover_***_Operation.

Transcode_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.Transcode_***	Node type
Operation	Request.MediaWorkflow.、Topology.Nodes.Transcode_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_Transcode_***_Operation.

`Concat\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Type	Request.MediaWorkflow.Topology.Nodes.Concat_***	Node type	Strin
Operation	Request.MediaWorkflow.Topology.Nodes.Concat_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_Concat_***_Operation.	Cont

`VoiceSeparate\\_\\*\\*\\*` has the following sub-nodes:

Node Name	Parent Node	Description

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(Keyword)		
Type	Request.MediaWorkflow.Topology.Nodes.VoiceSeparate_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.VoiceSeparate_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_VoiceSeparate_***_Oper

`VideoMontage\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.VideoMontage_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.VideoMontage_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_VideoMontage_***_Oper

StreamPackConfig_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.StreamPackConfig_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.StreamPackConfig_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_StreamPackConfig_*

`VideoStream\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.VideoStream_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.VideoStream_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_VideoStream_***_Operatic

StreamPack_*** has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.StreamPack_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.StreamPack_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_VideoStream_***_Operatio

`SDRtoHDR\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.SDRtoHDR_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.SDRtoHDR_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_SDRtoHDR_***_Operation.

`VideoProcess\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.VideoProcess_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.VideoProcess_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_VideoProcess_***_Opera

`SCF\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Type	Request.MediaWorkflow.Topology.Nodes.SCF_***	Node type	String
Operation	Request.MediaWorkflow.Topology.Nodes.SCF_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_SCF_***_Operation.	Container

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`SuperResolution\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.SuperResolution_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.SuperResolution_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_SuperResolution_***_C

`Segment\\_\\*\\*\\*` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	T
Type	Request.MediaWorkflow.Topology.Nodes.Segment_***	Node type	S
Operation	Request.MediaWorkflow.Topology.Nodes.Segment_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_Segment_***_Operation.	C

PicProcess_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.PicProcess_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.PicProcess_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_PicProcess_***_Operation.

Tts_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Type	Request.MediaWorkflow.Topology.Nodes.Tts_***	Node type	String
Operation	Request.MediaWorkflow.Topology.Nodes.Tts_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_Tts_***_Operation.	Container

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SpeechRecognition_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Type	Request.MediaWorkflow.Topology.Nodes.SpeechRecognition_***	Node type
Operation	Request.MediaWorkflow.Topology.Nodes.SpeechRecognition_***	Operation rule. For more information, see Structure > MediaWorkflow_Topology_Nodes_SpeechRecognition_

VideoEnhance_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Type	Request.MediaWorkflow.Topology.Nodes.VideoEnhance_***	Node type	String	Yes	VideoEnhance
Operation	Request.MediaWorkflow.Topology.Nodes.VideoEnhance_***	Operation rule. For more information, see Structure.	Container	Yes	None

Condition_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Type	Request.MediaWorkflow.Topology.Nodes.Condition_***	Node type	String	Yes	Condition
Operation	Request.MediaWorkflow.Topology.Nodes.Condition_***	Operation rule. For more information, see Structure.	Container	Yes	None

MediaInfo_*** has the following sub-nodes:

Node Name	Parent Node	Description	Type	Required	Constraints

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(Keyword)					
Type	Request.MediaWorkflow.Topology.Nodes.MediaInfo_***	Node type	String	Yes	MediaInfo

AIRecognition_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Type	Request.MediaWorkflow.Topology.Nodes.AIRecognition_***	Node type	String	Yes	AIRecognition

SegmentVideoBody_*** has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Type	Request.MediaWorkflow.Topology.Nodes.SegmentVideoBody_***	Node type	String	Yes	SegmentV
Operation	Request.MediaWorkflow.Topology.Nodes.SegmentVideoBody_***	Operation rule. For more information, see Structure.	Container	Yes	None

The dependencies of workflow nodes are as follows:

Workflow Node Type	Linkable Node Types
Start	Snapshot,Animation,SmartCover,Transcode,Concat,VoiceSeparate,VideoMontage,Stream
Snapshot	PicProcess,SCF,End
Animation	SCF,End
SmartCover	PicProcess,SCF,End
Transcode	Snapshot,Animation,SmartCover,Concat,VideoMontage,SDRtoHDR,VideoProcess,SCF,Se
Concat	Transcode,Snapshot,Animation,SmartCover,SDRtoHDR,VideoProcess,SCF,Segment,Vide

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VoiceSeparate	SCF,SpeechRecognition,End
VideoMontage	Snapshot,Animation,SDRtoHDR,VideoProcess,SCF,SuperResolution,VideoEnhance,Segm
StreamPackConfig	VideoStream
VideoStream	StreamPack
StreamPack	End
SDRtoHDR	Transcode,Concat,VideoMontage,VoiceSeparate,SmartCover,Animation,VideoProcess,SC
VideoProcess	Transcode,Concat,VideoMontage,VoiceSeparate,SmartCover,Animation,SDRtoHDR,SCF,
SCF	SDRtoHDR,Snapshot,Transcode,Concat,VideoMontage,VoiceSeparate,SmartCover,Anima
SuperResolution	VideoMontage,Transcode,SmartCover,Animation,Snapshot,SCF,Segment,SDRtoHDR,Vid
Segment	VideoEnhance,SegmentVideoBody, End
PicProcess	SCF,End
Tts	SCF,Transcode,End
SpeechRecognition	SCF,Tts,End
VideoEnhance	Transcode,VideoMontage,SmartCover,Animation,Snapshot,SCF,Segment,SpeechRecogni
MediaInfo	Condition,End
Condition	Transcode,HighSpeedHd,SuperResolution,VideoProcess,Animation,Snapshot,VideoMonta
AIRecognition	End
SegmentVideoBody	End

Wildcards supported by workflow are as follows:

Wildcard	Description
${InputPath}	Input file path (excluding the filename)
${InputName}	Input filename (excluding the extension)
${InputNameAndExt}	Input filename (including the extension)
${RunId}	Instance ID
${Ext}	Codec extension

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${Jobid}	Job ID
${Number}	Product index counting from 0. It is supported only for `Snapshot`, `SmartCover`, and `Segment` nodes.
${Time}	Screenshot time point in milliseconds. It is supported only for the `Snapshot` node.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

Response body 1

Response body 2

Screencapturing and transcoding the input video file, performing remuxing and intelligent thumbnail generation on the output file, and then performing image processing on the generated thumbnail.

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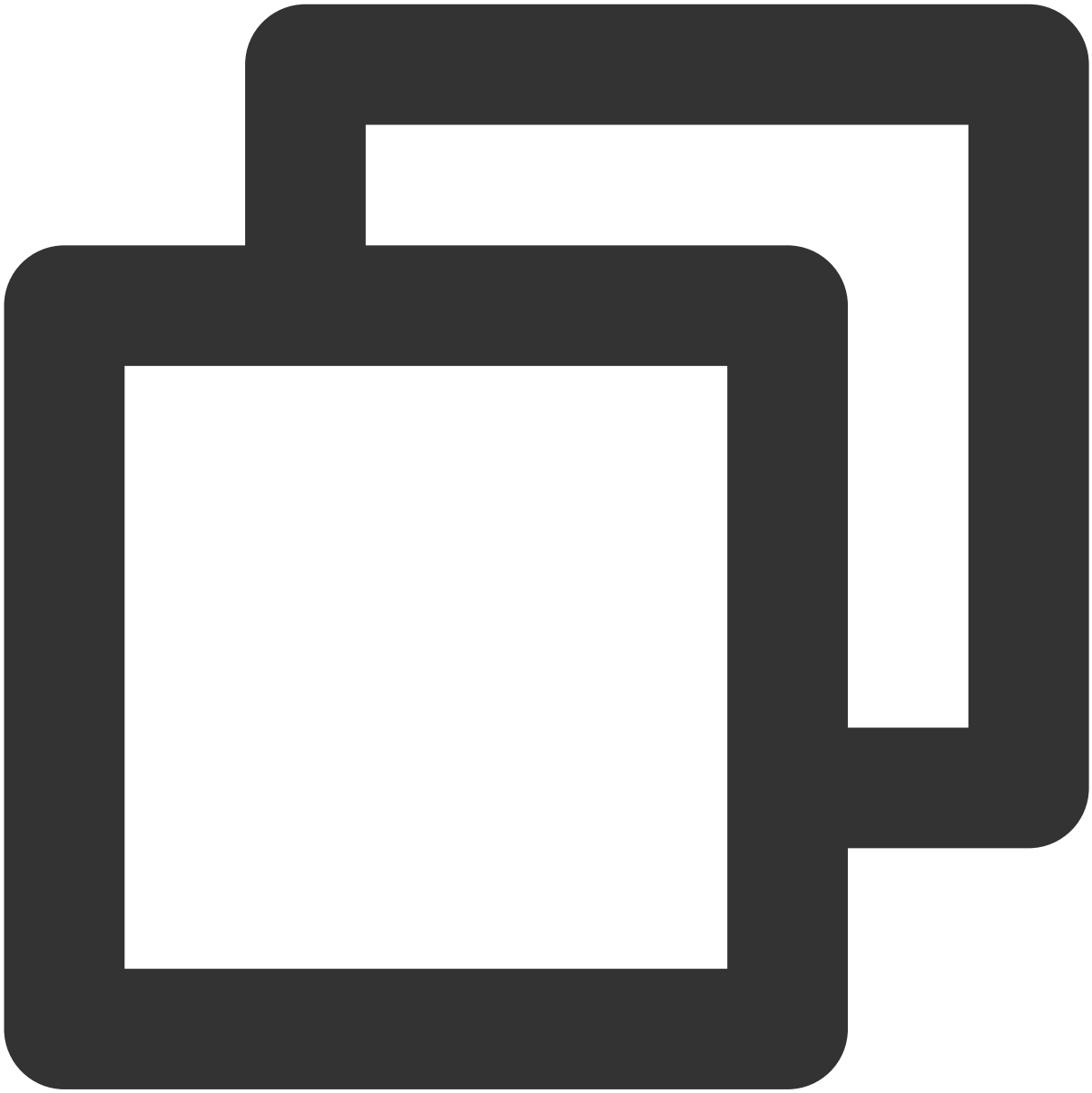

```
<Response>
    <RequestId>NjJmMWQxYjNfOTBmYTUwNjRfNWYyY18x</RequestId>
    <MediaWorkflow>
        <Name>workflow-1</Name>
        <State>Active</State>
        <WorkflowId>wc666d0b9f9dd47ae9137a096252d49f7</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-07-14T12:37:28+0800</CreateTime>
        <UpdateTime>2022-07-14T12:37:28+0800</UpdateTime>
        <Topology>
            <Dependencies>
```

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```
            <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
            <Snapshot_1581665960536>End</Snapshot_1581665960536>
            <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
            <Segment_15816659605667>End</Segment_15816659605667>
            <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
            <PicProcess_15816659605668>End</PicProcess_15816659605668>
        </Dependencies>
        <Nodes>
            <Start>
                <Type>Start</Type>
                <Input>
                    <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                    <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                    <ObjectPrefix>input/workflow-1</ObjectPrefix>
                    <NotifyConfig>
                        <State>On</State>
                        <Url>http://www.callback.com</Url>
                        <Event>TaskFinish,WorkflowFinish</Event>
                        <Type>Url</Type>
                        <ResultFormat>JSON</ResultFormat>
                    </NotifyConfig>
                    <ExtFilter>
                        <State>On</State>
                        <Video>true</Video>
                        <Audio>false</Audio>
                        <Image>false</Image>
                        <Custom>false</Custom>
                        <AllFile>false</AllFile>
                    </ExtFilter>
                </Input>
            </Start>
            <Snapshot_1581665960536>
                <Type>Snapshot</Type>
                <Operation>
                    <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                        <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                    </Output>
                </Operation>
            </Snapshot_1581665960536>
            <Transcode_1581665960538>
                <Type>Transcode</Type>
                <Operation>
                    <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
```

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```
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/trans.{Ext}</Object>
                        </Output>
                    </Operation>
                </Transcode_1581665960538>
                <Segment_15816659605667>
                    <Type>Segment</Type>
                    <Operation>
                        <Segment>
                            <Format>mkv</Format>
                            <Duration>20</Duration>
                        </Segment>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>test-trans${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </Segment_15816659605667>
                <SmartCover_1581665960539>
                    <Type>SmartCover</Type>
                    <Operation>
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </SmartCover_1581665960539>
                <PicProcess_15816659605668>
                    <Type>PicProcess</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Response>
```

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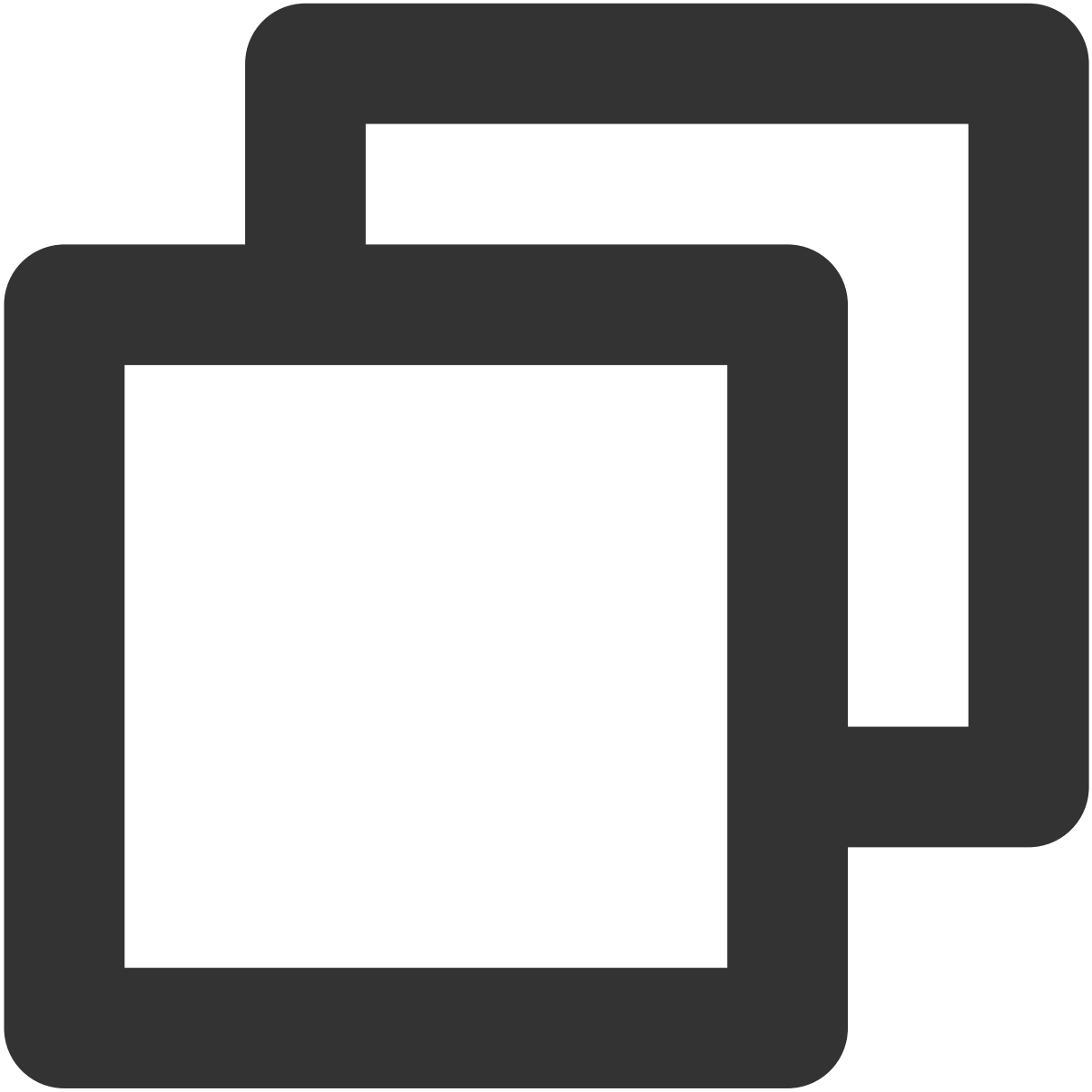
Adaptive bitrate streaming



```
<Response>
    <MediaWorkflow>
        <Name>workflow-2</Name>
        <State>Active</State>
        <WorkflowId>w93aa43ba105347169fa093ed857b2a90</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-07-14T12:37:28+0800</CreateTime>
        <UpdateTime>2022-07-14T12:37:28+0800</UpdateTime>
        <Topology>
```

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```
<Dependencies>
    <Start>StreamPackConfig_1581665960532</Start>
    <StreamPackConfig_1581665960532>VideoStream_1581665960536,VideoStre
    <VideoStream_1581665960536>StreamPack_1581665960538</VideoStream_15
    <VideoStream_1581665960537>StreamPack_1581665960538</VideoStream_15
    <StreamPack_1581665960538>End</StreamPack_1581665960538>
</Dependencies>
<Nodes>
    <Start>
        <Type>Start</Type>
        <Input>
            <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
            <ObjectPrefix>input/workflow-2</ObjectPrefix>
            <NotifyConfig>
                <State>On</State>
                <Url>http://www.callback.com</Url>
                <Event>TaskFinish,WorkflowFinish</Event>
                <Type>Url</Type>
                <ResultFormat>JSON</ResultFormat>
            </NotifyConfig>
            <ExtFilter>
                <State>On</State>
                <Video>true</Video>
                <Audio>false</Audio>
                <Image>false</Image>
                <Custom>false</Custom>
                <AllFile>false</AllFile>
            </ExtFilter>
        </Input>
    </Start>
    <StreamPackConfig_1581665960532>
        <Type>StreamPackConfig</Type>
        <Operation>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>${InputPath}/${InputName}._${RunId}.${ext}</Obj
            </Output>
            <StreamPackConfig>
                <PackType>HLS</PackType>
                <IgnoreFailedStream>true</IgnoreFailedStream>
            </StreamPackConfig>
        </Operation>
    </StreamPackConfig_1581665960532>
    <VideoStream_1581665960536>
        <Type>VideoStream</Type>
        <Operation>
```

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```
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${RunId}_Substream_1/video.m3u8</Object>
                        </Output>
                    </Operation>
                </VideoStream_1581665960536>
                <VideoStream_1581665960537>
                    <Type>VideoStream</Type>
                    <Operation>
                        <TemplateId>t1460606bgfdg2148c4ab182f55163ba7bj</TemplateId
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${RunId}_Substream_2/video.m3u8</Object>
                        </Output>
                    </Operation>
                </VideoStream_1581665960537>
                <StreamPack_1581665960538>
                    <Type>StreamPack</Type>
                    <Operation>
                        <StreamPackInfo>
                            <VideoStreamConfig>
                                <VideoStreamName>VideoStream_1581665960536</VideoSt
                                <BandWidth>200000000</BandWidth>
                            </VideoStreamConfig>
                            <VideoStreamConfig>
                                <VideoStreamName>VideoStream_1581665960537</VideoSt
                                <BandWidth>200000000</BandWidth>
                            </VideoStreamConfig>
                        </StreamPackInfo>
                    </Operation>
                </StreamPack_1581665960538>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Response>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
MediaWorkflow	Response	Workflow array.	Container

`MediaWorkflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Name	Response.MediaWorkflow	Workflow name.	String
WorkflowId	Response.MediaWorkflow	Workflow ID	String
State	Response.MediaWorkflow	Workflow status.	String
CreateTime	Response.MediaWorkflow	Creation time.	String
UpdateTime	Response.MediaWorkflow	Update time.	String
Topology	Response.MediaWorkflow	Topology information, which is the same as `Request.MediaWorkflow.Topology` in the request.	Container

Error codes

No special error message will be returned for this request. For the common error messages, please see Error Codes.

Examples

Request 1

Response 1

Request 2

Response 2

Screencapturing and transcoding the input video file, performing remuxing and intelligent thumbnail generation on the output file, and then performing image processing on the generated thumbnail.

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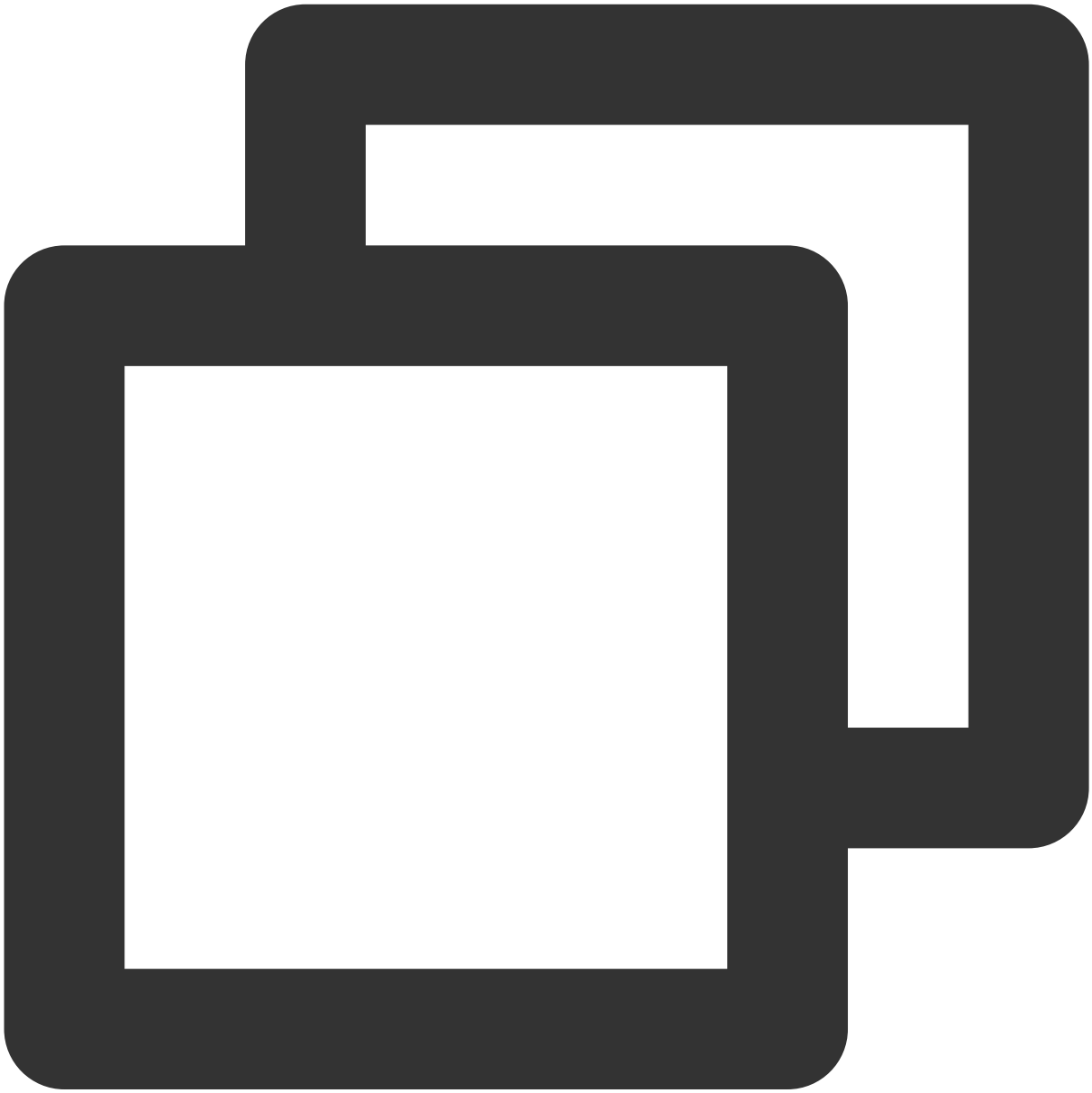

```
POST /workflow HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <MediaWorkflow>
        <Name>workflow-1</Name>
        <State>Active</State>
        <Topology>
```

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```
            <Dependencies>
                <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
                <Segment_15816659605667>End</Segment_15816659605667>
                <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
                <PicProcess_15816659605668>End</PicProcess_15816659605668>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                        <ObjectPrefix>input/workflow-1</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <Snapshot_1581665960536>
                    <Type>Snapshot</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                            <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                        </Output>
                    </Operation>
                </Snapshot_1581665960536>
                <Transcode_1581665960538>
                    <Type>Transcode</Type>
                    <Operation>
```

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```
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/trans.{Ext}</Object>
                        </Output>
                    </Operation>
                </Transcode_1581665960538>
                <Segment_15816659605667>
                    <Type>Segment</Type>
                    <Operation>
                        <Segment>
                            <Format>mkv</Format>
                            <Duration>20</Duration>
                        </Segment>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>test-trans${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </Segment_15816659605667>
                <SmartCover_1581665960539>
                    <Type>SmartCover</Type>
                    <Operation>
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </SmartCover_1581665960539>
                <PicProcess_15816659605668>
                    <Type>PicProcess</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflow>
```

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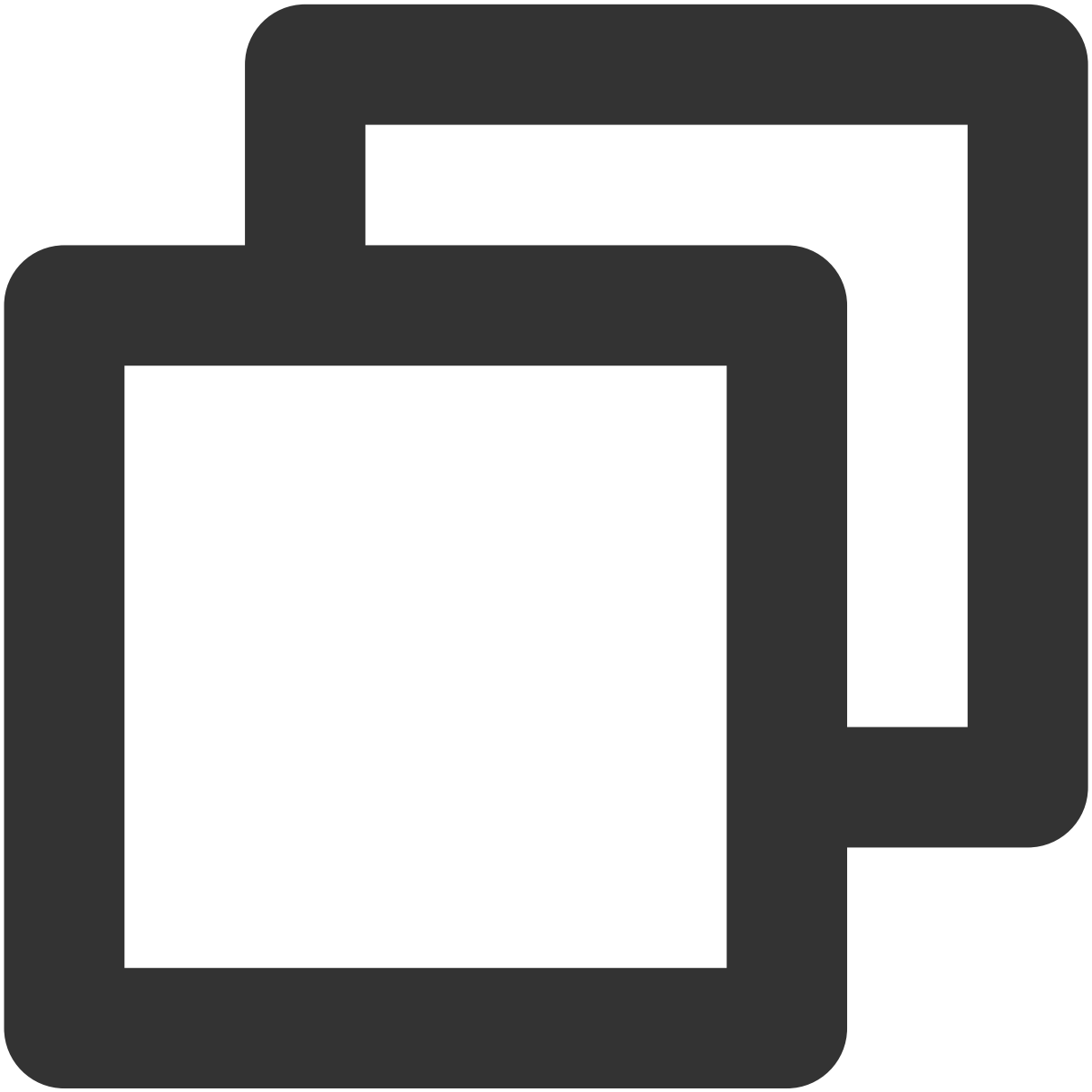
```
</Request>
```



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjJmMWQxYjNfOTBmYTUwNjRfNWYyY18x

<Response>
```

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```
<RequestId>NjJmMWQxYjNfOTBmYTUwNjRfNWYyY18x</RequestId>
<MediaWorkflow>
    <Name>workflow-1</Name>
    <State>Active</State>
    <WorkflowId>wc666d0b9f9dd47ae9137a096252d49f7</WorkflowId>
    <BucketId>test-1234567890</BucketId>
    <CreateTime>2022-07-14T12:37:28+0800</CreateTime>
    <UpdateTime>2022-07-14T12:37:28+0800</UpdateTime>
    <Topology>
        <Dependencies>
            <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
            <Snapshot_1581665960536>End</Snapshot_1581665960536>
            <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
            <Segment_15816659605667>End</Segment_15816659605667>
            <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
            <PicProcess_15816659605668>End</PicProcess_15816659605668>
        </Dependencies>
        <Nodes>
            <Start>
                <Type>Start</Type>
                <Input>
                    <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                    <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                    <ObjectPrefix>input/workflow-1</ObjectPrefix>
                    <NotifyConfig>
                        <State>On</State>
                        <Url>http://www.callback.com</Url>
                        <Event>TaskFinish,WorkflowFinish</Event>
                        <Type>Url</Type>
                        <ResultFormat>JSON</ResultFormat>
                    </NotifyConfig>
                    <ExtFilter>
                        <State>On</State>
                        <Video>true</Video>
                        <Audio>false</Audio>
                        <Image>false</Image>
                        <Custom>false</Custom>
                        <AllFile>false</AllFile>
                    </ExtFilter>
                </Input>
            </Start>
            <Snapshot_1581665960536>
                <Type>Snapshot</Type>
                <Operation>
                    <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
```

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```
                    <Bucket>test-1234567890</Bucket>
                    <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                    <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                </Output>
            </Operation>
        </Snapshot_1581665960536>
        <Transcode_1581665960538>
            <Type>Transcode</Type>
            <Operation>
                <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>bcd/${RunId}/trans.{Ext}</Object>
                </Output>
            </Operation>
        </Transcode_1581665960538>
        <Segment_15816659605667>
            <Type>Segment</Type>
            <Operation>
                <Segment>
                    <Format>mkv</Format>
                    <Duration>20</Duration>
                </Segment>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>test-trans${Number}.{Ext}</Object>
                </Output>
            </Operation>
        </Segment_15816659605667>
        <SmartCover_1581665960539>
            <Type>SmartCover</Type>
            <Operation>
                <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                </Output>
            </Operation>
        </SmartCover_1581665960539>
        <PicProcess_15816659605668>
            <Type>PicProcess</Type>
            <Operation>
                <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                <Output>
```

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```
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Response>
```

Adaptive bitrate streaming

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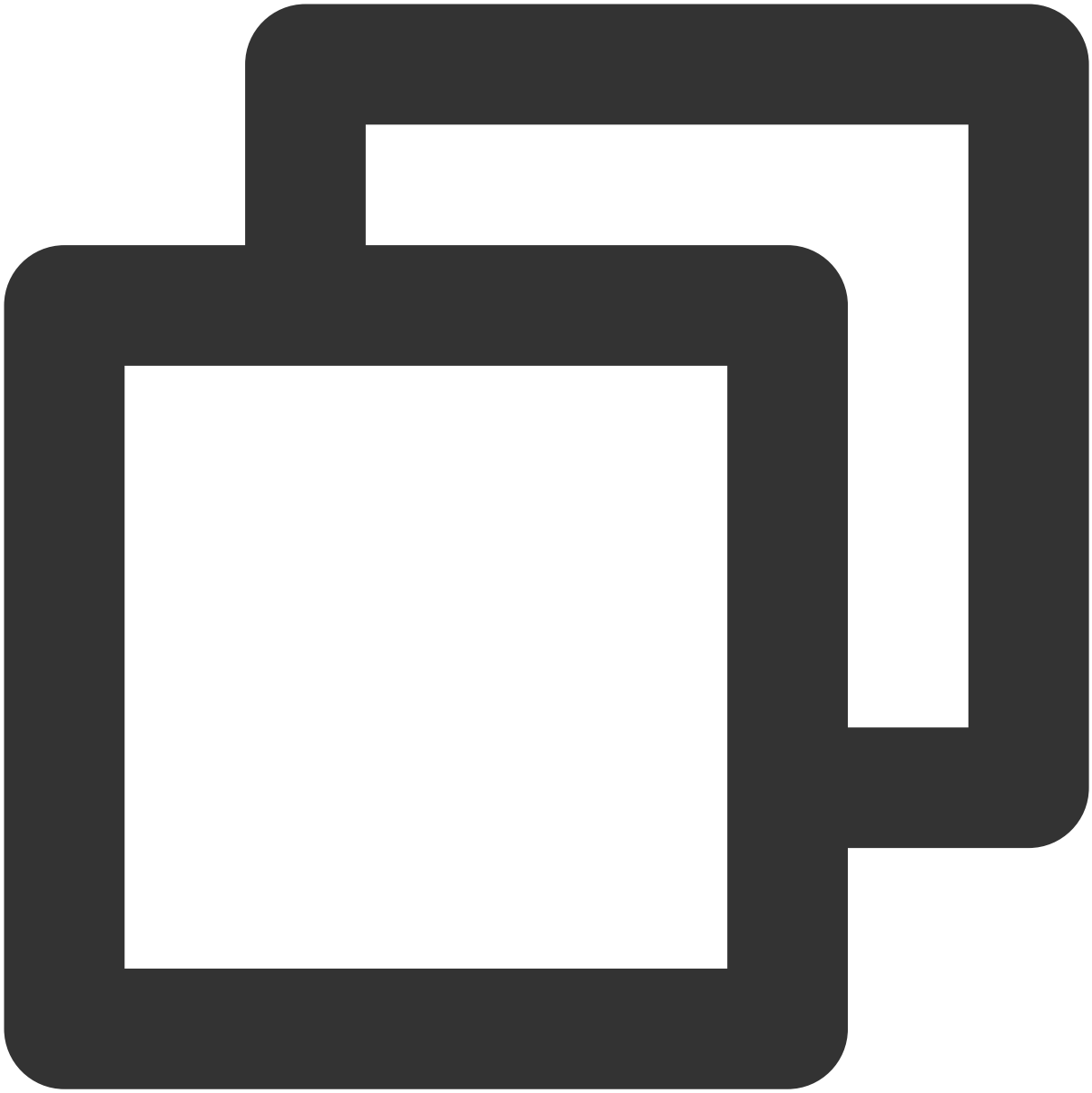

```
POST /workflow HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <MediaWorkflow>
        <Name>workflow-2</Name>
        <State>Active</State>
        <Topology>
```

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```
<Dependencies>
    <Start>StreamPackConfig_1581665960532</Start>
    <StreamPackConfig_1581665960532>VideoStream_1581665960536,VideoStre
    <VideoStream_1581665960536>StreamPack_1581665960538</VideoStream_15
    <VideoStream_1581665960537>StreamPack_1581665960538</VideoStream_15
    <StreamPack_1581665960538>End</StreamPack_1581665960538>
</Dependencies>
<Nodes>
    <Start>
        <Type>Start</Type>
        <Input>
            <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
            <ObjectPrefix>input/workflow-2</ObjectPrefix>
            <NotifyConfig>
                <State>On</State>
                <Url>http://www.callback.com</Url>
                <Event>TaskFinish,WorkflowFinish</Event>
                <Type>Url</Type>
                <ResultFormat>JSON</ResultFormat>
            </NotifyConfig>
            <ExtFilter>
                <State>On</State>
                <Video>true</Video>
                <Audio>false</Audio>
                <Image>false</Image>
                <Custom>false</Custom>
                <AllFile>false</AllFile>
            </ExtFilter>
        </Input>
    </Start>
    <StreamPackConfig_1581665960532>
        <Type>StreamPackConfig</Type>
        <Operation>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>${InputPath}/${InputName}._${RunId}.${ext}</Obj
            </Output>
            <StreamPackConfig>
                <PackType>HLS</PackType>
                <IgnoreFailedStream>true</IgnoreFailedStream>
            </StreamPackConfig>
        </Operation>
    </StreamPackConfig_1581665960532>
    <VideoStream_1581665960536>
        <Type>VideoStream</Type>
        <Operation>
```

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```
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${RunId}_Substream_1/video.m3u8</Object>
                        </Output>
                    </Operation>
                </VideoStream_1581665960536>
                <VideoStream_1581665960537>
                    <Type>VideoStream</Type>
                    <Operation>
                        <TemplateId>t1460606bgfdg2148c4ab182f55163ba7bj</TemplateId
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${RunId}_Substream_2/video.m3u8</Object>
                        </Output>
                    </Operation>
                </VideoStream_1581665960537>
                <StreamPack_1581665960538>
                    <Type>StreamPack</Type>
                    <Operation>
                        <StreamPackInfo>
                            <VideoStreamConfig>
                                <VideoStreamName>VideoStream_1581665960536</VideoSt
                                <BandWidth>200000000</BandWidth>
                            </VideoStreamConfig>
                            <VideoStreamConfig>
                                <VideoStreamName>VideoStream_1581665960537</VideoSt
                                <BandWidth>200000000</BandWidth>
                            </VideoStreamConfig>
                        </StreamPackInfo>
                    </Operation>
                </StreamPack_1581665960538>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Request>
```

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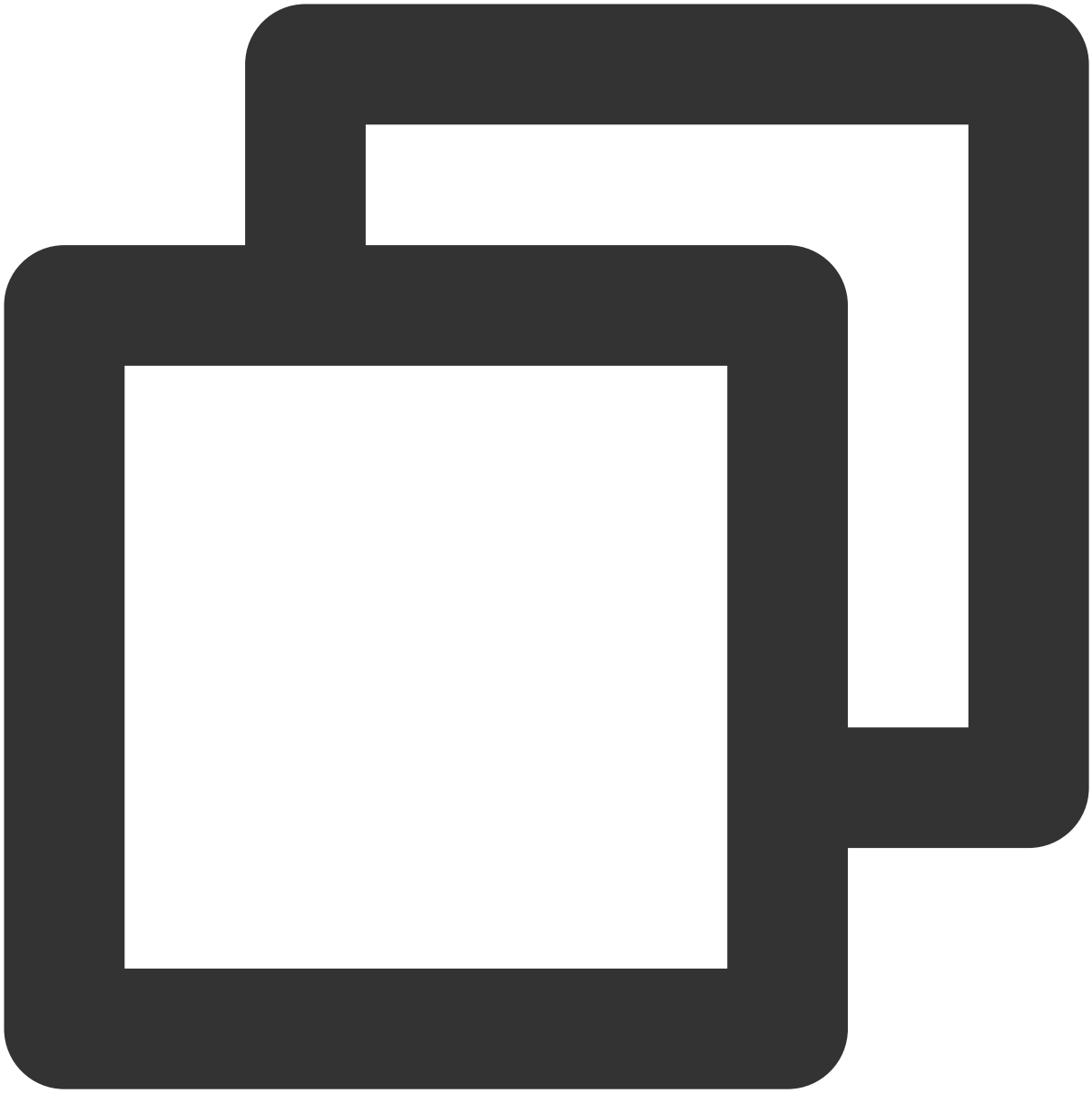

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf95s=

<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf95s=</RequestId>
    <MediaWorkflow>
```

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```
        <Name>workflow-2</Name>
        <State>Active</State>
        <WorkflowId>w93aa43ba105347169fa093ed857b2a90</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-07-14T12:37:28+0800</CreateTime>
        <UpdateTime>2022-07-14T12:37:28+0800</UpdateTime>
        <Topology>
            <Dependencies>
                <Start>StreamPackConfig_1581665960532</Start>
                <StreamPackConfig_1581665960532>VideoStream_1581665960536,VideoStre
                <VideoStream_1581665960536>StreamPack_1581665960538</VideoStream_15
                <VideoStream_1581665960537>StreamPack_1581665960538</VideoStream_15
                <StreamPack_1581665960538>End</StreamPack_1581665960538>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <ObjectPrefix>input/workflow-2</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <StreamPackConfig_1581665960532>
                    <Type>StreamPackConfig</Type>
                    <Operation>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${InputPath}/${InputName}._${RunId}.${ext}</Obj
                        </Output>
                        <StreamPackConfig>
                            <PackType>HLS</PackType>
```

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```
                        <IgnoreFailedStream>true</IgnoreFailedStream>
                    </StreamPackConfig>
                </Operation>
            </StreamPackConfig_1581665960532>
            <VideoStream_1581665960536>
                <Type>VideoStream</Type>
                <Operation>
                    <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>${RunId}_Substream_1/video.m3u8</Object>
                    </Output>
                </Operation>
            </VideoStream_1581665960536>
            <VideoStream_1581665960537>
                <Type>VideoStream</Type>
                <Operation>
                    <TemplateId>t1460606bgfdg2148c4ab182f55163ba7bj</TemplateId
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>${RunId}_Substream_2/video.m3u8</Object>
                    </Output>
                </Operation>
            </VideoStream_1581665960537>
            <StreamPack_1581665960538>
                <Type>StreamPack</Type>
                <Operation>
                    <StreamPackInfo>
                        <VideoStreamConfig>
                            <VideoStreamName>VideoStream_1581665960536</VideoSt
                            <BandWidth>200000000</BandWidth>
                        </VideoStreamConfig>
                        <VideoStreamConfig>
                            <VideoStreamName>VideoStream_1581665960537</VideoSt
                            <BandWidth>200000000</BandWidth>
                        </VideoStreamConfig>
                    </StreamPackInfo>
                </Operation>
            </StreamPack_1581665960538>
        </Nodes>
    </Topology>
</MediaWorkflow>
</Response>
```

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Querying Workflow

Last updated：2024-06-12 15:31:54

Feature Description

This API is used to query a workflow.

Request

Sample request

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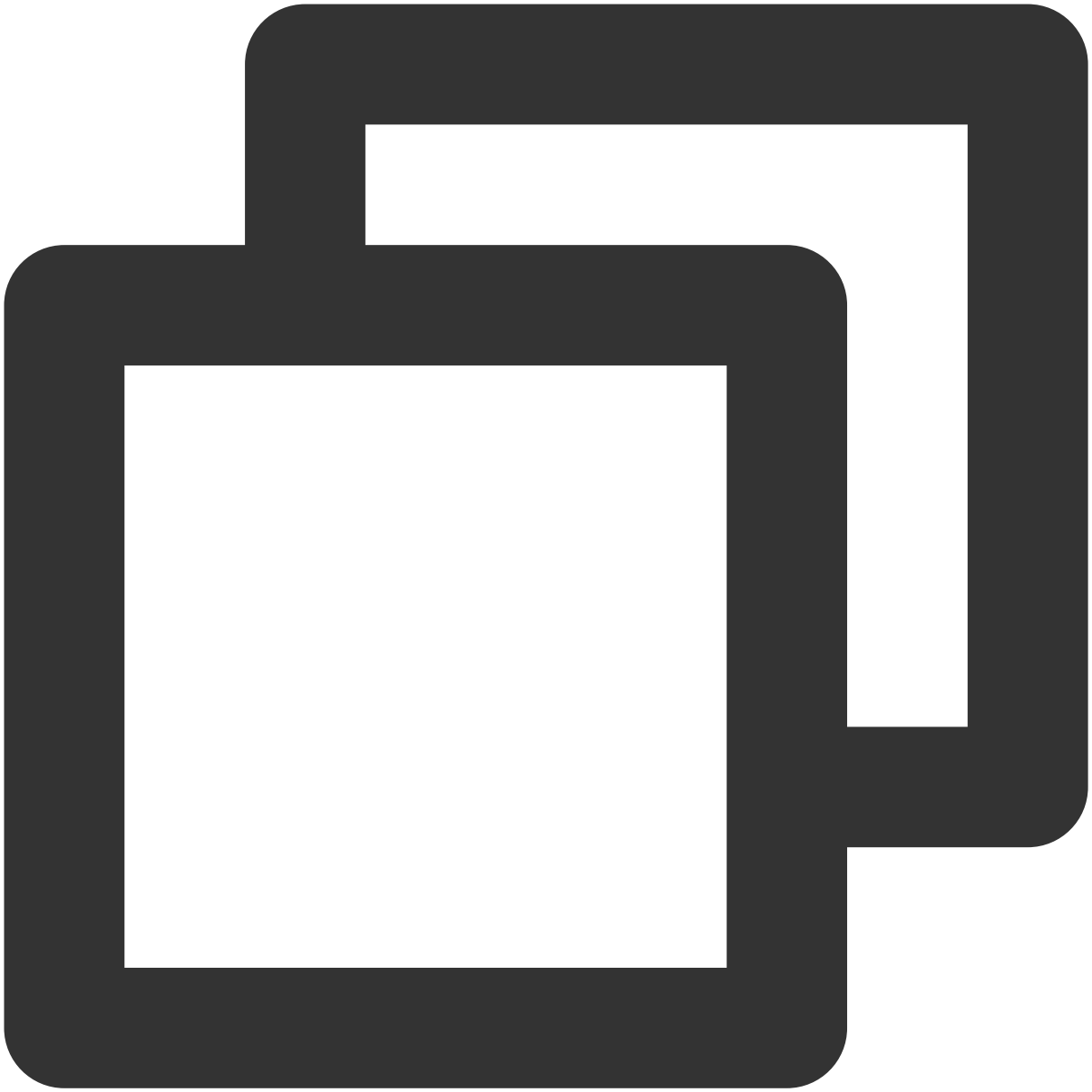

```
GET /workflow HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

Parameter (Keyword)	Description	Type	Required
ids	Workflow ID. If you enter multiple IDs, separate them by comma.	string	No
name	Workflow name	string	No
pageNumber	Page number.	string	No
pageSize	Number of entries per page.	string	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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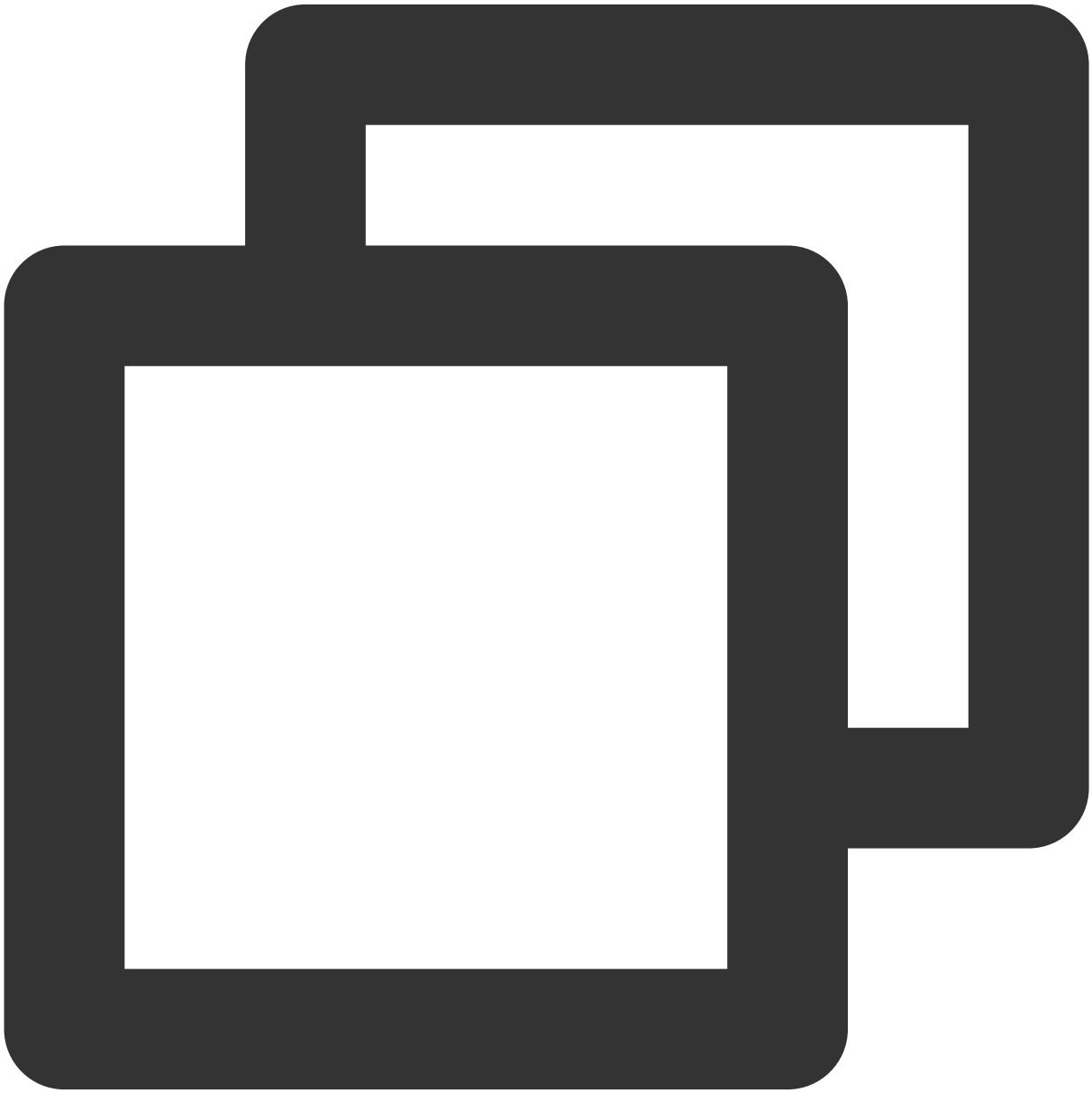

```
<Response>
    <RequestId>NjJmMWZiZTFfOTBmYTUwNjRfNjVmNl8x</RequestId>
    <TotalCount>2</TotalCount>
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <MediaWorkflowList>
        <Name>workflow-1</Name>
        <State>Active</State>
        <WorkflowId>wc666d0b9f9dd47ae9137a096252d49f7</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-06-29T14:37:44+0800</CreateTime>
```

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```
        <UpdateTime>2022-06-29T14:37:44+0800</UpdateTime>
        <Topology>
            <Dependencies>
                <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
                <Segment_15816659605667>End</Segment_15816659605667>
                <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
                <PicProcess_15816659605668>End</PicProcess_15816659605668>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                        <ObjectPrefix>input/workflow-1</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish,WorkflowStart</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <Snapshot_1581665960536>
                    <Type>Snapshot</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                            <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                        </Output>
                    </Operation>
                </Snapshot_1581665960536>
                <Transcode_1581665960538>
```

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```
                    <Type>Transcode</Type>
                    <Operation>
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/trans.{Ext}</Object>
                        </Output>
                    </Operation>
                </Transcode_1581665960538>
                <Segment_15816659605667>
                    <Type>Segment</Type>
                    <Operation>
                        <Segment>
                            <Format>mkv</Format>
                            <Duration>20</Duration>
                        </Segment>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>test-trans${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </Segment_15816659605667>
                <SmartCover_1581665960539>
                    <Type>SmartCover</Type>
                    <Operation>
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </SmartCover_1581665960539>
                <PicProcess_15816659605668>
                    <Type>PicProcess</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
```

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```
        </Topology>
    </MediaWorkflowList>
    <MediaWorkflowList>
        <Name>workflow-2</Name>
        <State>Active</State>
        <WorkflowId>w93aa43ba105347169fa093ed857b2a90</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-06-29T14:37:44+0800</CreateTime>
        <UpdateTime>2022-06-29T14:37:44+0800</UpdateTime>
        <Topology>
            <Dependencies>
                <Start>StreamPackConfig_1581665960532</Start>
                <StreamPackConfig_1581665960532>VideoStream_1581665960536,VideoStre
                <VideoStream_1581665960536>StreamPack_1581665960538</VideoStream_15
                <VideoStream_1581665960537>StreamPack_1581665960538</VideoStream_15
                <StreamPack_1581665960538>End</StreamPack_1581665960538>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <ObjectPrefix>input/workflow-2</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish,WorkflowStart</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <StreamPackConfig_1581665960532>
                    <Type>StreamPackConfig</Type>
                    <Operation>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${InputPath}/${InputName}._${RunId}.${ext}</Obj
```

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```
                    </Output>
                    <StreamPackConfig>
                        <PackType>HLS</PackType>
                        <IgnoreFailedStream>true</IgnoreFailedStream>
                    </StreamPackConfig>
                </Operation>
            </StreamPackConfig_1581665960532>
            <VideoStream_1581665960536>
                <Type>VideoStream</Type>
                <Operation>
                    <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>${RunId}_Substream_1/video.m3u8</Object>
                    </Output>
                </Operation>
            </VideoStream_1581665960536>
            <VideoStream_1581665960537>
                <Type>VideoStream</Type>
                <Operation>
                    <TemplateId>t1460606bgfdg2148c4ab182f55163ba7bj</TemplateId
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>${RunId}_Substream_2/video.m3u8</Object>
                    </Output>
                </Operation>
            </VideoStream_1581665960537>
            <StreamPack_1581665960538>
                <Type>StreamPack</Type>
                <Operation>
                    <StreamPackInfo>
                        <VideoStreamConfig>
                            <VideoStreamName>VideoStream_1581665960536</VideoSt
                            <BandWidth>200000000</BandWidth>
                        </VideoStreamConfig>
                        <VideoStreamConfig>
                            <VideoStreamName>VideoStream_1581665960537</VideoSt
                            <BandWidth>200000000</BandWidth>
                        </VideoStreamConfig>
                    </StreamPackInfo>
                </Operation>
            </StreamPack_1581665960538>
        </Nodes>
    </Topology>
</MediaWorkflowList>
```

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```
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
TotalCount	Response	Total number of workflows	Int
PageNumber	Response	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Response	Number of entries per page, which is the same as `pageSize` in the request.	Int
MediaWorkflowList	Response	Workflow array	Container

`MediaWorkflowList` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Name	Response.MediaWorkflowList	Workflow name.	String	Yes	The value can contain up to 128 letters, digits, hyphens, and underscores.
WorkflowId	Response.MediaWorkflowList	Workflow ID	String	Yes	Unique workflow ID
State	Response.MediaWorkflowList	Workflow status	String	Yes	1. Active 2. Paused
CreateTime	Response.MediaWorkflowList	Creation time	String	Yes	None
UpdateTime	Response.MediaWorkflowList	Update	String	Yes	None

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		time			
Topology	Response.MediaWorkflowList	Topology information	Container	Yes	Same as Topology in the workflow creation API.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request 1: Workflow ID

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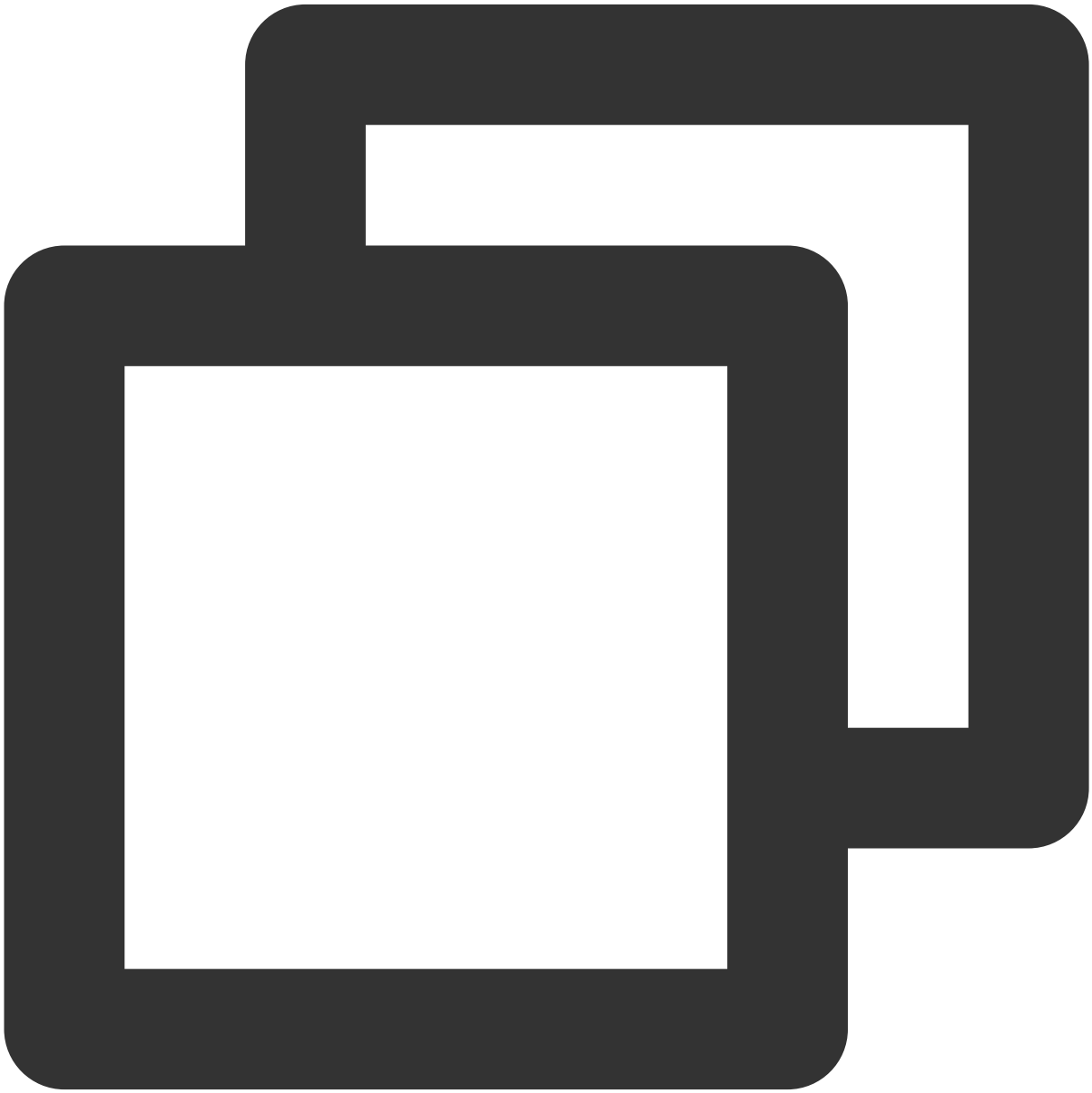

```
GET /workflow?ids=wc666d0b9f9dd47ae9137a096252d49f7,A,B HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response 1

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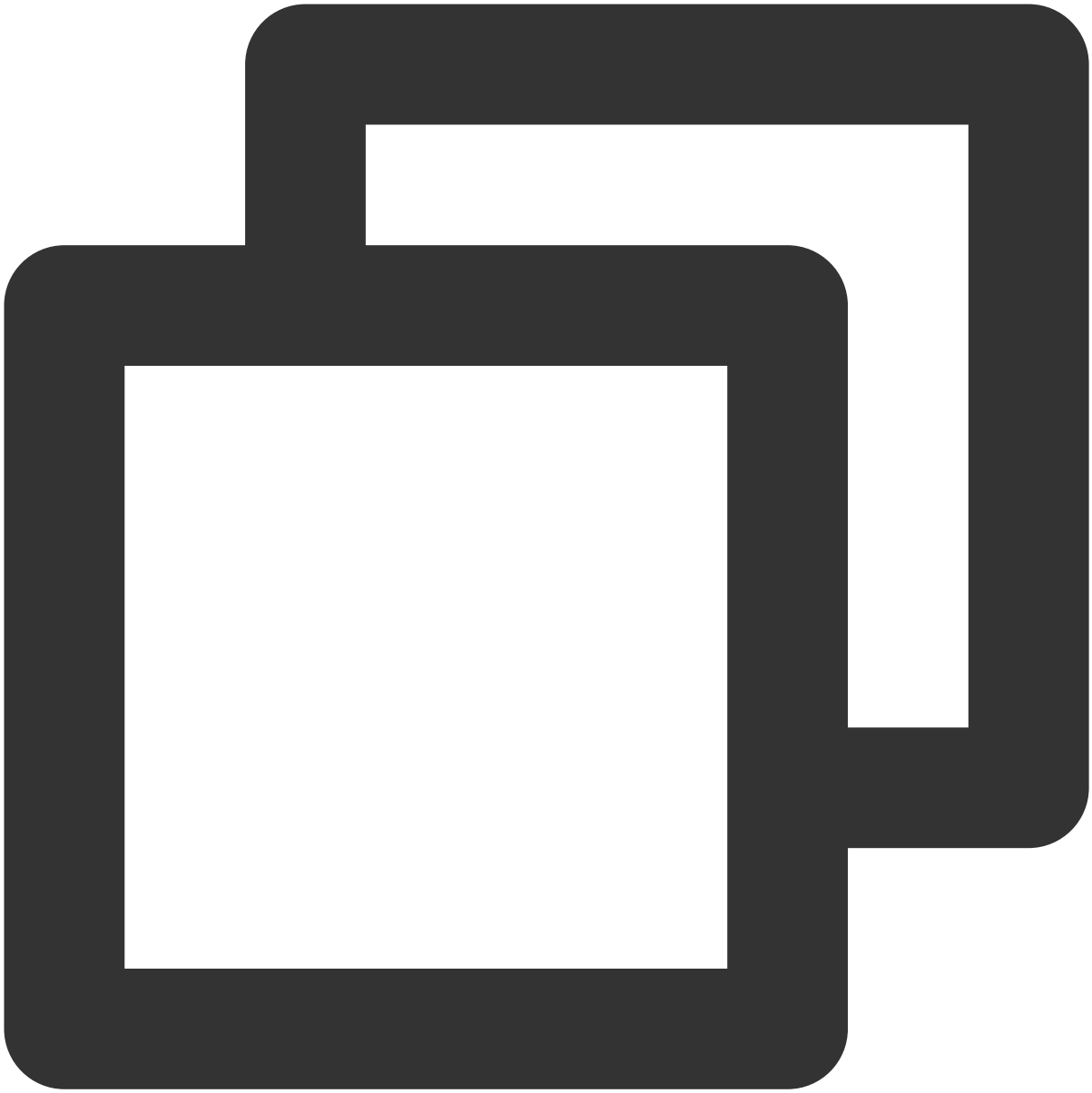

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjJmMWZmMzRfOTBmYTUwNjRfNjVmOF8x

<Response>
    <RequestId>NjJmMWZmMzRfOTBmYTUwNjRfNjVmOF8x</RequestId>
        <MediaWorkflowList>
```

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```
        <Name>workflow-1</Name>
        <State>Active</State>
        <WorkflowId>wc666d0b9f9dd47ae9137a096252d49f7</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-06-29T14:37:44+0800</CreateTime>
        <UpdateTime>2022-06-29T14:37:44+0800</UpdateTime>
        <Topology>
            <Dependencies>
                <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
                <Segment_15816659605667>End</Segment_15816659605667>
                <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
                <PicProcess_15816659605668>End</PicProcess_15816659605668>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                        <ObjectPrefix>input/workflow-1</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish,WorkflowStart</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <Snapshot_1581665960536>
                    <Type>Snapshot</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
```

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```
                    <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                </Output>
            </Operation>
        </Snapshot_1581665960536>
        <Transcode_1581665960538>
            <Type>Transcode</Type>
            <Operation>
                <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>bcd/${RunId}/trans.{Ext}</Object>
                </Output>
            </Operation>
        </Transcode_1581665960538>
        <Segment_15816659605667>
            <Type>Segment</Type>
            <Operation>
                <Segment>
                    <Format>mkv</Format>
                    <Duration>20</Duration>
                </Segment>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>test-trans${Number}.{Ext}</Object>
                </Output>
            </Operation>
        </Segment_15816659605667>
        <SmartCover_1581665960539>
            <Type>SmartCover</Type>
            <Operation>
                <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                </Output>
            </Operation>
        </SmartCover_1581665960539>
        <PicProcess_15816659605668>
            <Type>PicProcess</Type>
            <Operation>
                <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
```

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```
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflowList>
    <NonExistIDs>A</NonExistIDs>
    <NonExistIDs>B</NonExistIDs>
</Response>
```

Request 2: Workflow list

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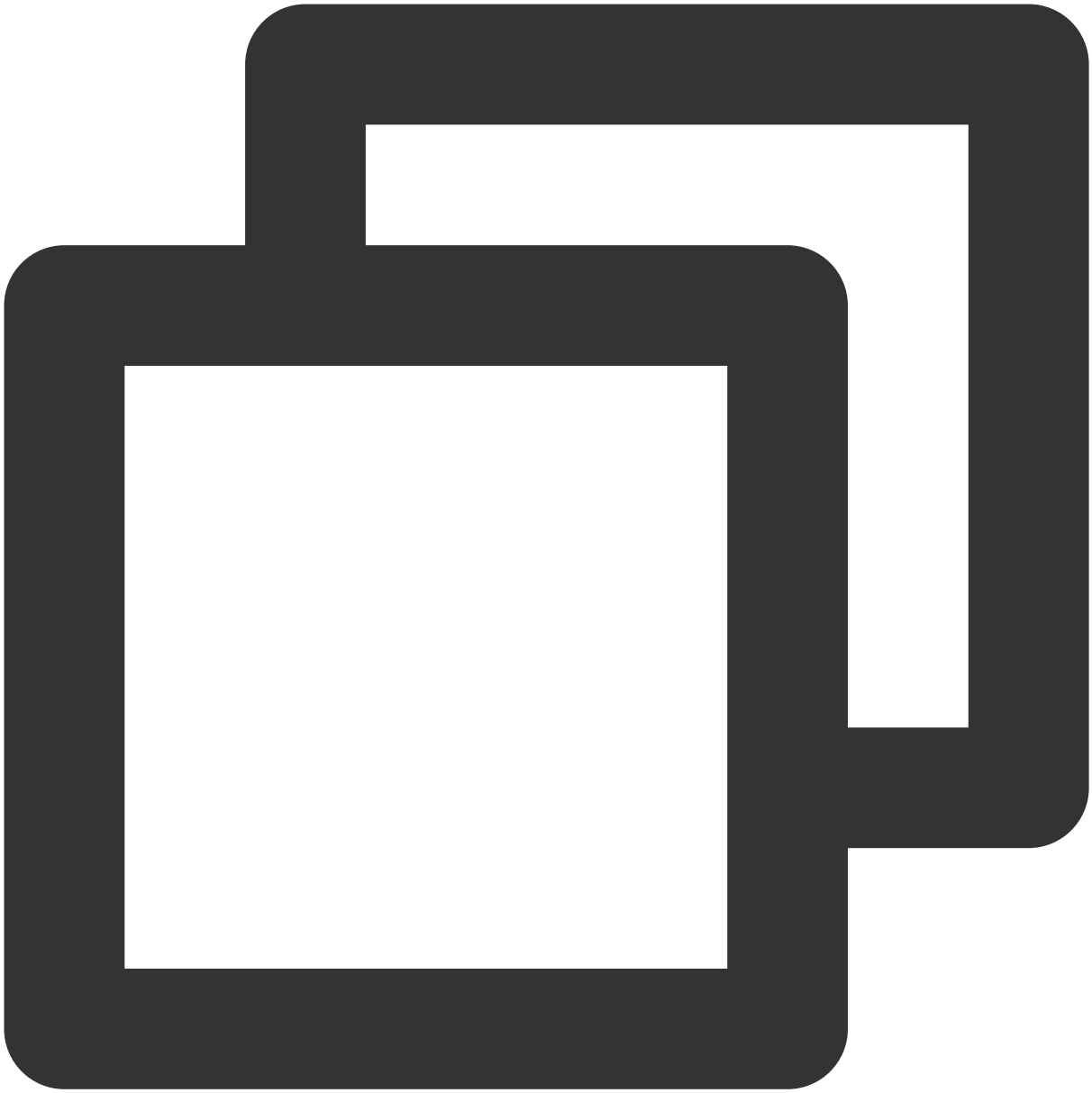

```
GET /workflow?pageNumber=1&pageSize=10 HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0**********&q-sig
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response 2

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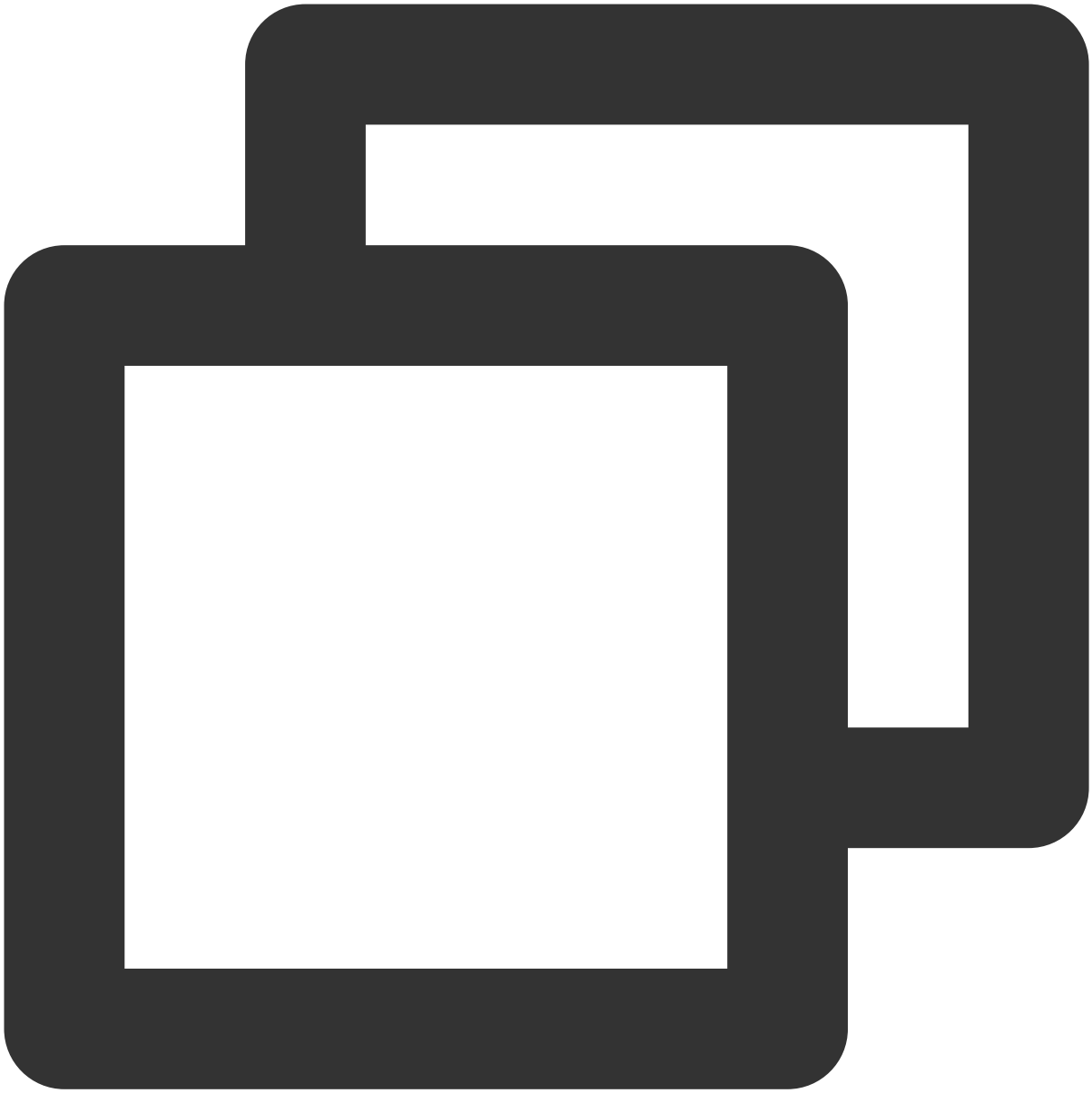

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhfMjc=

<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhfMjc=</RequestId>
    <TotalCount>2</TotalCount>
```

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```
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <MediaWorkflowList>
        <Name>workflow-1</Name>
        <State>Active</State>
        <WorkflowId>wc666d0b9f9dd47ae9137a096252d49f7</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-06-29T14:37:44+0800</CreateTime>
        <UpdateTime>2022-06-29T14:37:44+0800</UpdateTime>
        <Topology>
            <Dependencies>
                <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
                <Segment_15816659605667>End</Segment_15816659605667>
                <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
                <PicProcess_15816659605668>End</PicProcess_15816659605668>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                        <ObjectPrefix>input/workflow-1</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish,WorkflowStart</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <Snapshot_1581665960536>
                    <Type>Snapshot</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
```

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```
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                    <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                </Output>
            </Operation>
        </Snapshot_1581665960536>
        <Transcode_1581665960538>
            <Type>Transcode</Type>
            <Operation>
                <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>bcd/${RunId}/trans.{Ext}</Object>
                </Output>
            </Operation>
        </Transcode_1581665960538>
        <Segment_15816659605667>
            <Type>Segment</Type>
            <Operation>
                <Segment>
                    <Format>mkv</Format>
                    <Duration>20</Duration>
                </Segment>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>test-trans${Number}.{Ext}</Object>
                </Output>
            </Operation>
        </Segment_15816659605667>
        <SmartCover_1581665960539>
            <Type>SmartCover</Type>
            <Operation>
                <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                </Output>
            </Operation>
        </SmartCover_1581665960539>
        <PicProcess_15816659605668>
            <Type>PicProcess</Type>
            <Operation>
                <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflowList>
    <MediaWorkflowList>
        <Name>workflow-2</Name>
        <State>Active</State>
        <WorkflowId>w93aa43ba105347169fa093ed857b2a90</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-06-29T14:37:44+0800</CreateTime>
        <UpdateTime>2022-06-29T14:37:44+0800</UpdateTime>
        <Topology>
            <Dependencies>
                <Start>StreamPackConfig_1581665960532</Start>
                <StreamPackConfig_1581665960532>VideoStream_1581665960536,VideoStre
                <VideoStream_1581665960536>StreamPack_1581665960538</VideoStream_15
                <VideoStream_1581665960537>StreamPack_1581665960538</VideoStream_15
                <StreamPack_1581665960538>End</StreamPack_1581665960538>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <ObjectPrefix>input/workflow-2</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish,WorkflowStart</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
```

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```
                </Start>
                <StreamPackConfig_1581665960532>
                    <Type>StreamPackConfig</Type>
                    <Operation>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${InputPath}/${InputName}._${RunId}.${ext}</Obj
                        </Output>
                        <StreamPackConfig>
                            <PackType>HLS</PackType>
                            <IgnoreFailedStream>true</IgnoreFailedStream>
                        </StreamPackConfig>
                    </Operation>
                </StreamPackConfig_1581665960532>
                <VideoStream_1581665960536>
                    <Type>VideoStream</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${RunId}_Substream_1/video.m3u8</Object>
                        </Output>
                    </Operation>
                </VideoStream_1581665960536>
                <VideoStream_1581665960537>
                    <Type>VideoStream</Type>
                    <Operation>
                        <TemplateId>t1460606bgfdg2148c4ab182f55163ba7bj</TemplateId
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>${RunId}_Substream_2/video.m3u8</Object>
                        </Output>
                    </Operation>
                </VideoStream_1581665960537>
                <StreamPack_1581665960538>
                    <Type>StreamPack</Type>
                    <Operation>
                        <StreamPackInfo>
                            <VideoStreamConfig>
                                <VideoStreamName>VideoStream_1581665960536</VideoSt
                                <BandWidth>200000000</BandWidth>
                            </VideoStreamConfig>
                            <VideoStreamConfig>
                                <VideoStreamName>VideoStream_1581665960537</VideoSt
```

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```
                                <BandWidth>200000000</BandWidth>
                            </VideoStreamConfig>
                        </StreamPackInfo>
                    </Operation>
                </StreamPack_1581665960538>
            </Nodes>
        </Topology>
    </MediaWorkflowList>
</Response>
```

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Deleting Workflow

Last updated：2024-06-12 15:31:54

Feature Description

This API is used to delete a workflow.

Request

Sample request

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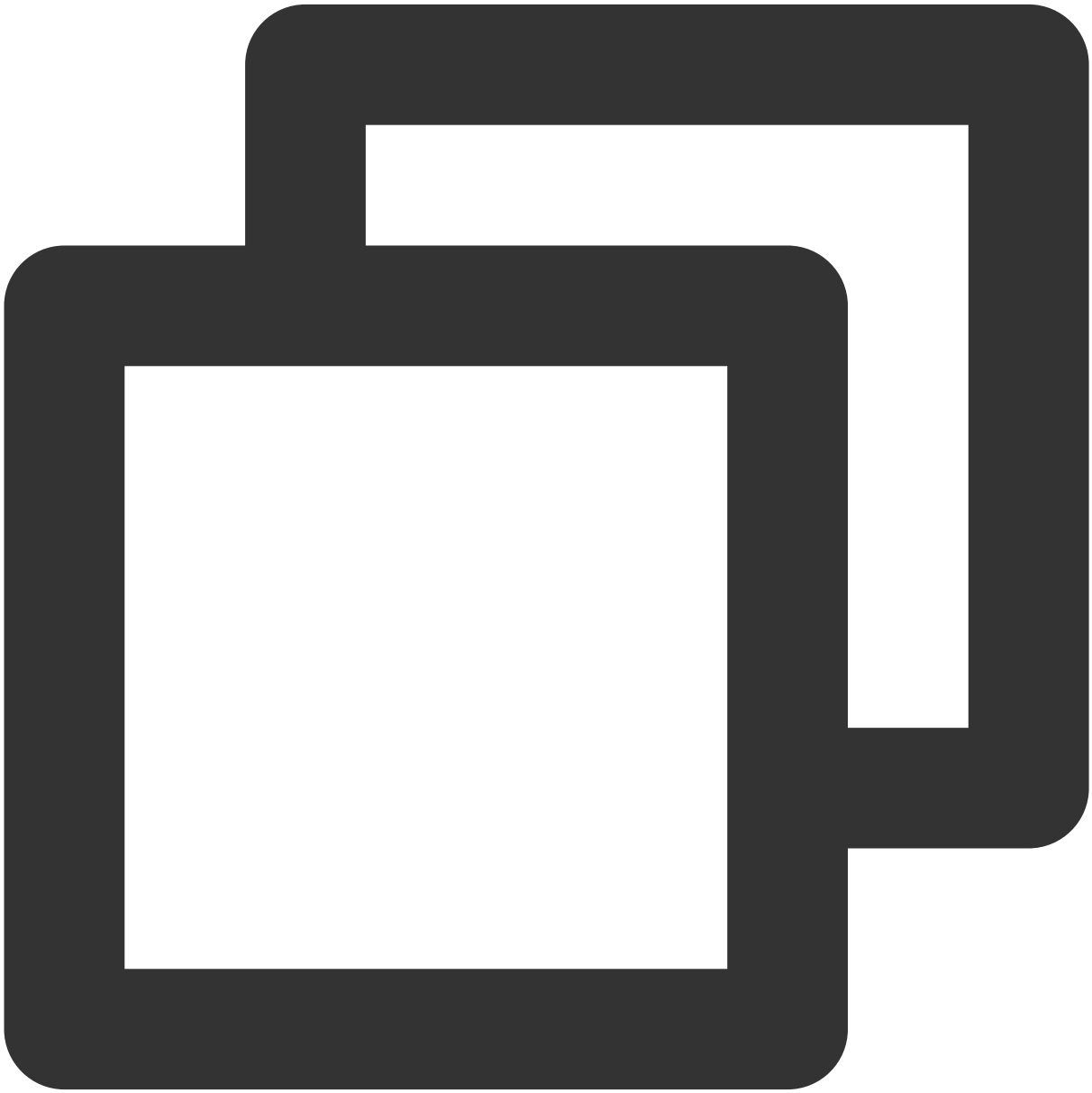

```
DELETE /workflow/<WorkflowId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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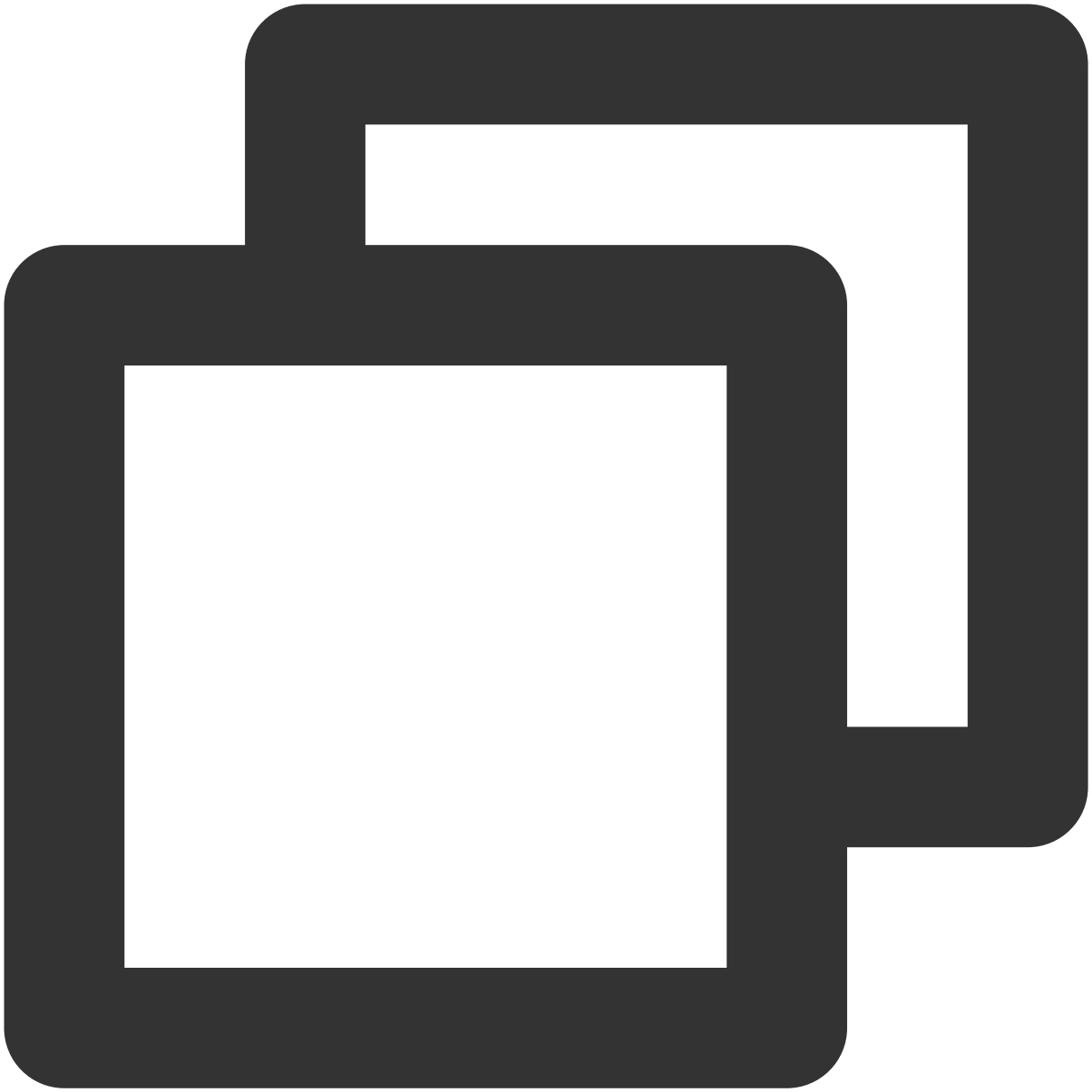

```
<Response>
    <RequestId>NjJmMWZmMzRfOTBmYTUwNjRfNjVmOF8x</RequestId>
    <WorkflowId>A</WorkflowId>
<Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
WorkflowId	Response	ID of the deleted workflow	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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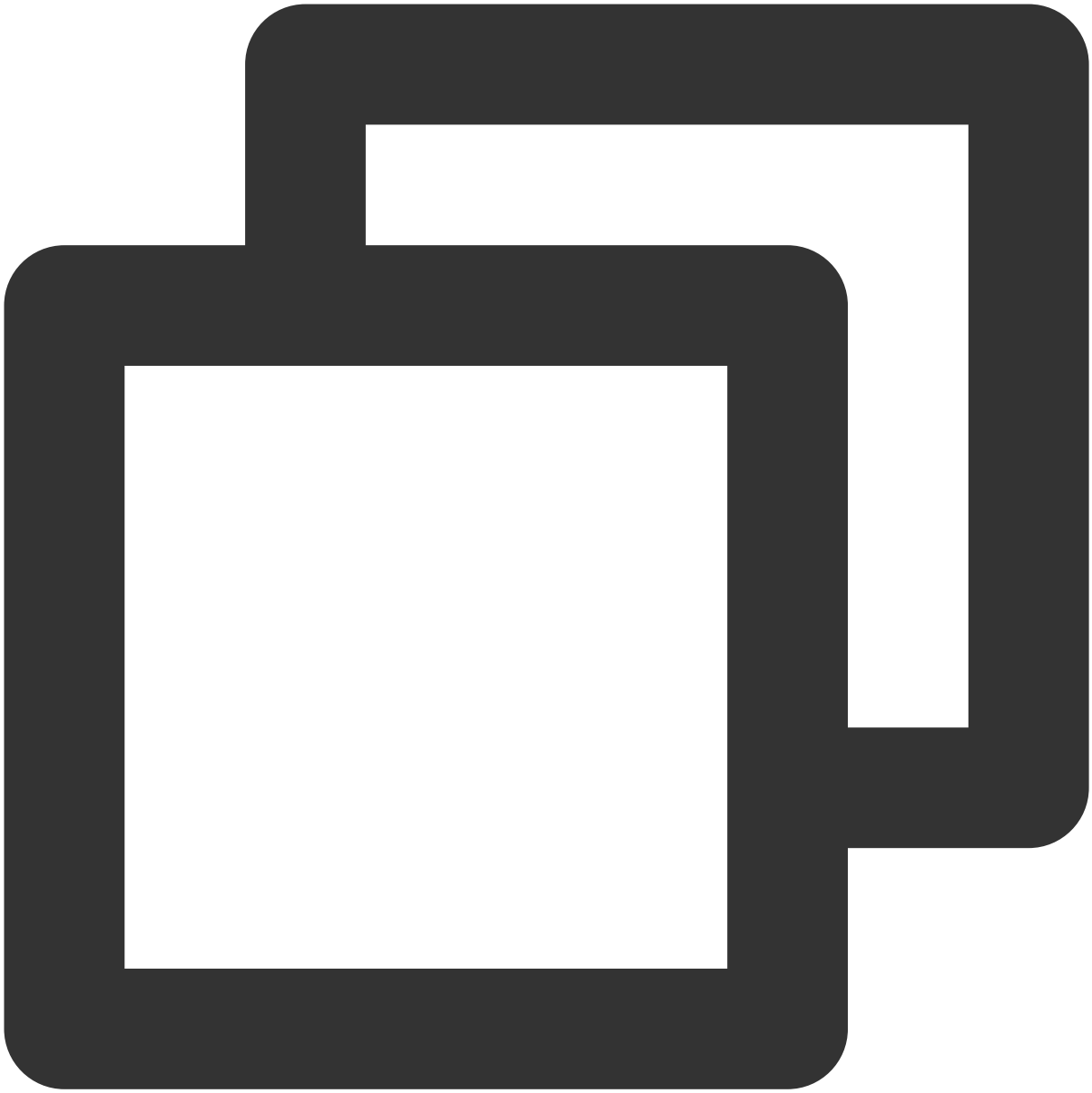

```
DELETE /workflow/we59a9648e62e48ffb25e4b41f3721799 HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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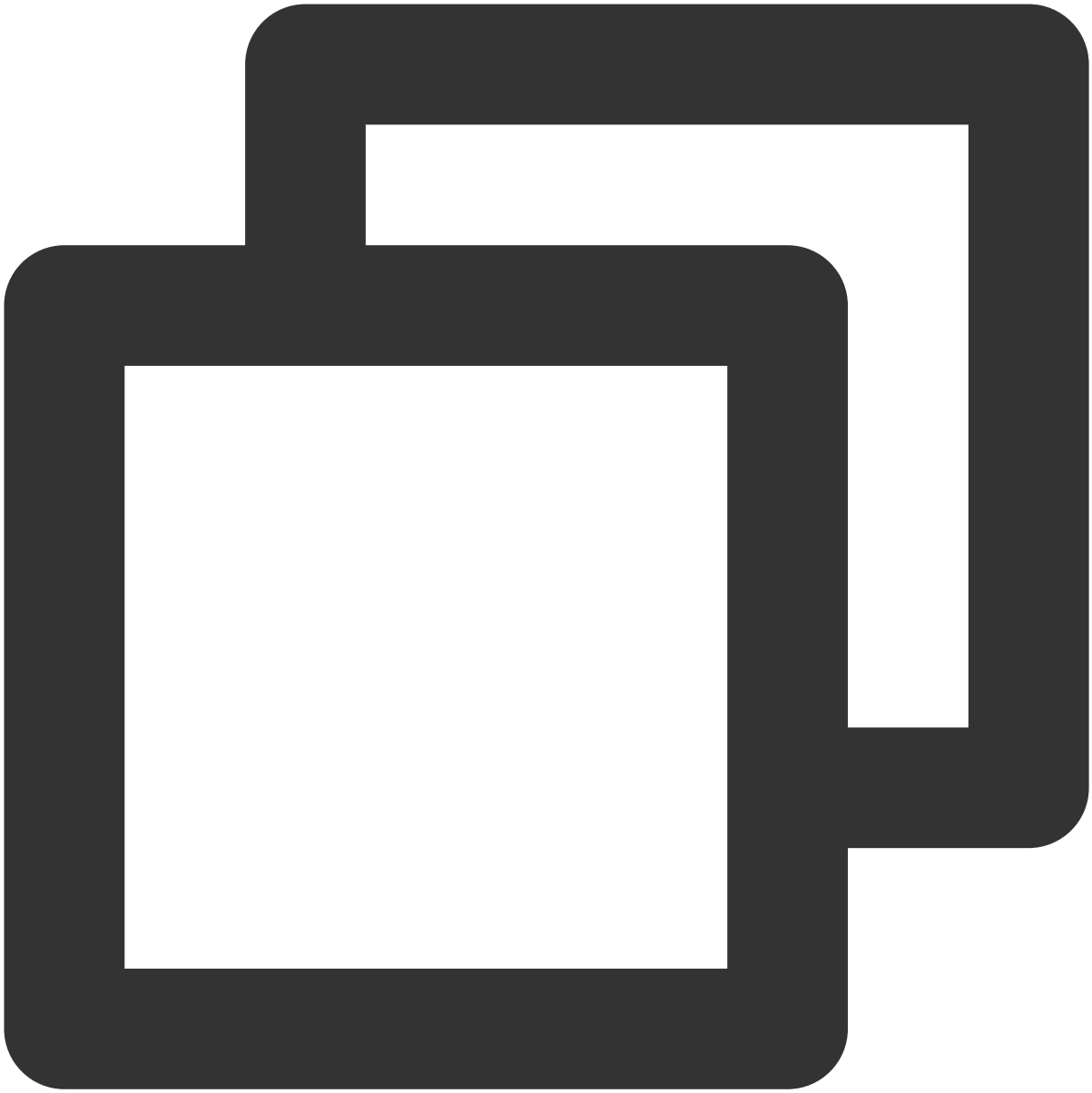

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjJmMWZmMzRfOTBmYTUwNjRfNjVmOF8x

<Response>
    <RequestId>NjJmMWZmMzRfOTBmYTUwNjRfNjVmOF8x</RequestId>
    <WorkflowId>we59a9648e62e48ffb25e4b41f3721799</WorkflowId>
```

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```
<Response>
```

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Updating Workflow

Last updated：2024-06-12 15:31:54

Feature Description

This API is used to update a workflow.

Request

Sample request

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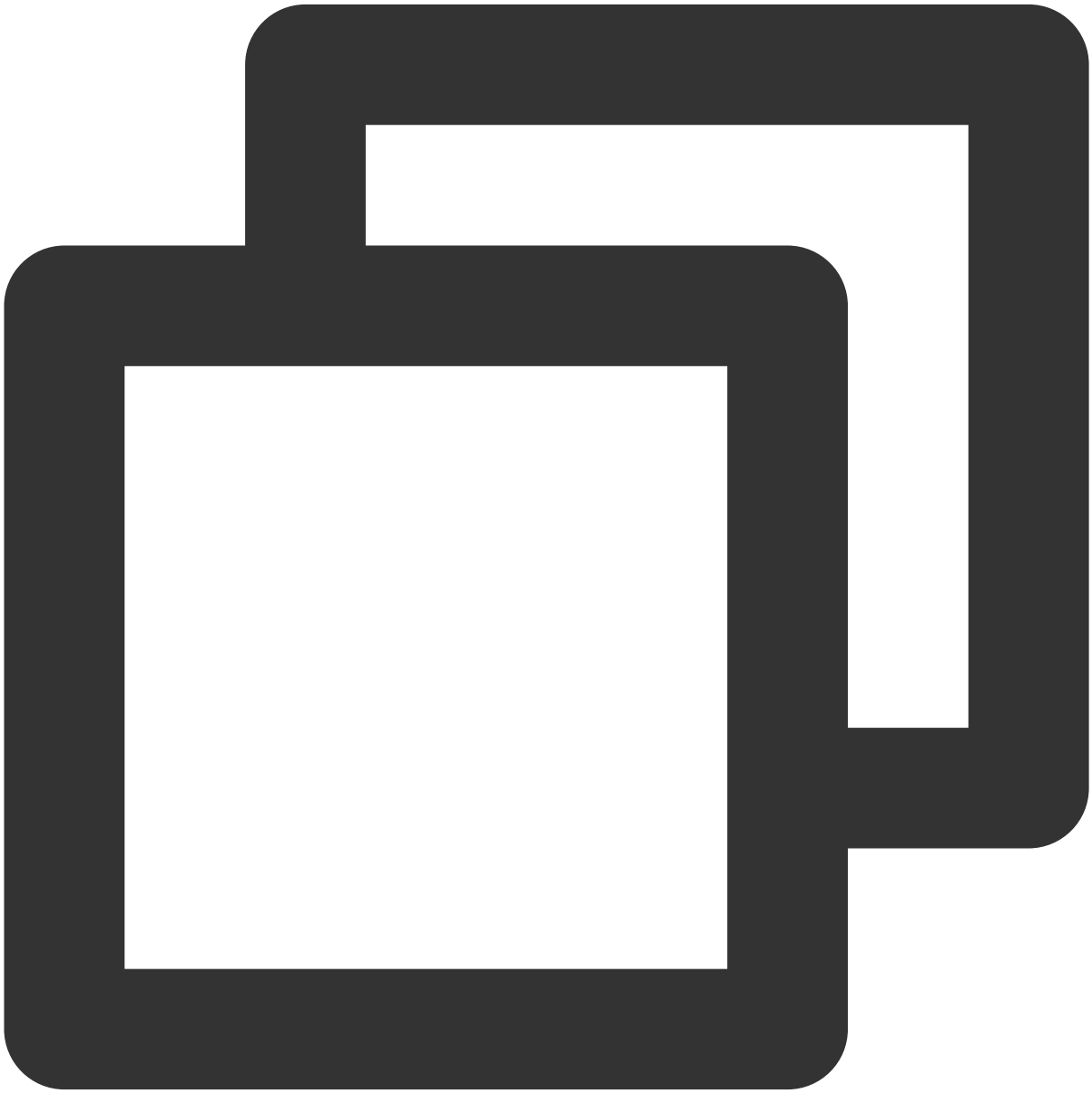

```
PUT /workflow/<WorkflowId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

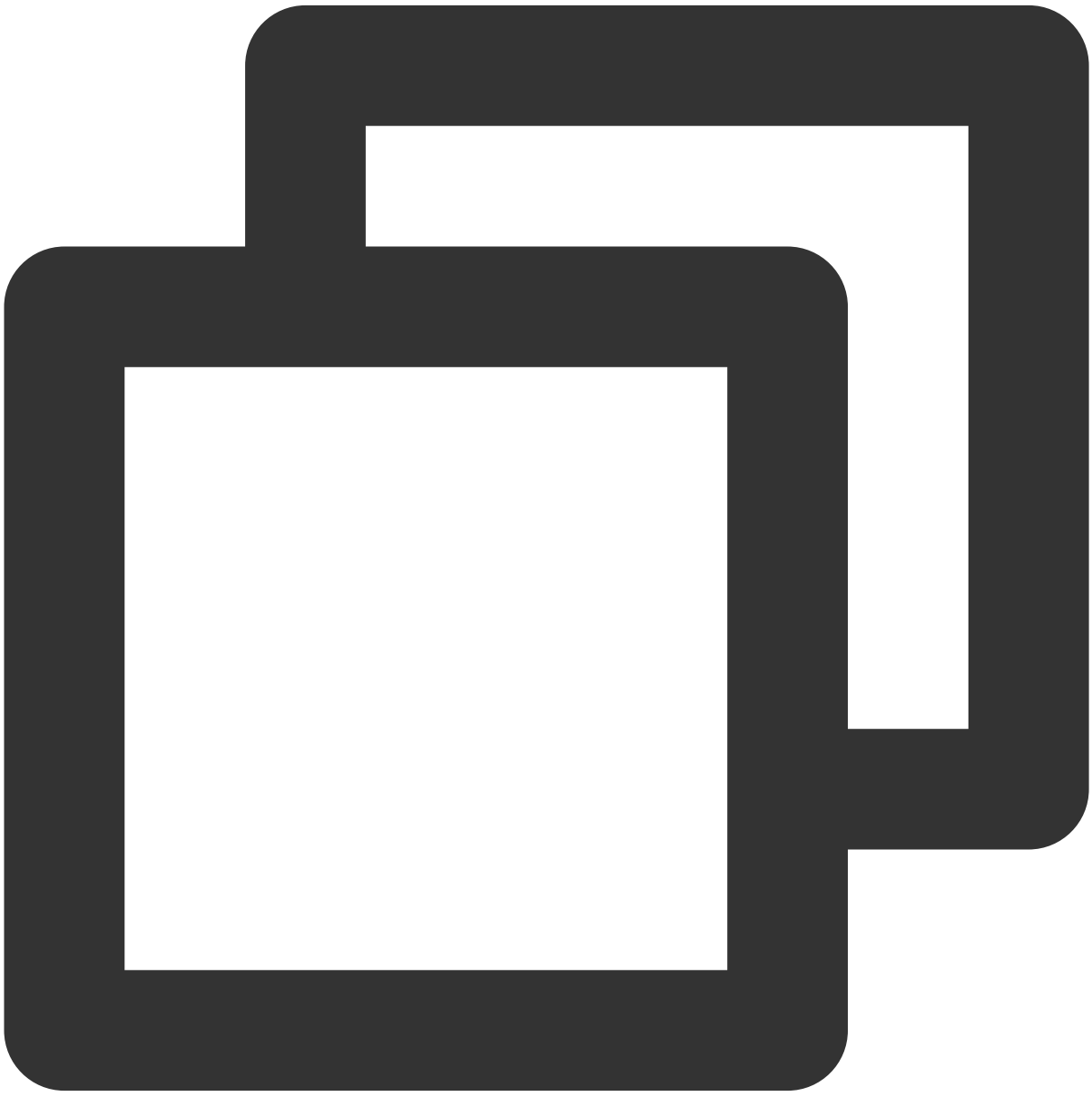
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <MediaWorkflow>
        <Name>workflow-1</Name>
        <State>Active</State>
        <Topology>
            <Dependencies>
                <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
                <Segment_15816659605667>End</Segment_15816659605667>
                <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
                <PicProcess_15816659605668>End</PicProcess_15816659605668>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                        <ObjectPrefix>input/workflow-1</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <Snapshot_1581665960536>
                    <Type>Snapshot</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                            <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
```

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```
            </Output>
        </Operation>
    </Snapshot_1581665960536>
    <Transcode_1581665960538>
        <Type>Transcode</Type>
        <Operation>
            <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>bcd/${RunId}/trans.{Ext}</Object>
            </Output>
        </Operation>
    </Transcode_1581665960538>
    <Segment_15816659605667>
        <Type>Segment</Type>
        <Operation>
            <Segment>
                <Format>mkv</Format>
                <Duration>25</Duration>
            </Segment>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>test-trans${Number}.{Ext}</Object>
            </Output>
        </Operation>
    </Segment_15816659605667>
    <SmartCover_1581665960539>
        <Type>SmartCover</Type>
        <Operation>
            <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
            </Output>
        </Operation>
    </SmartCover_1581665960539>
    <PicProcess_15816659605668>
        <Type>PicProcess</Type>
        <Operation>
            <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>bcd/${RunId}/pic.{Ext}</Object>
```

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```
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the workflow creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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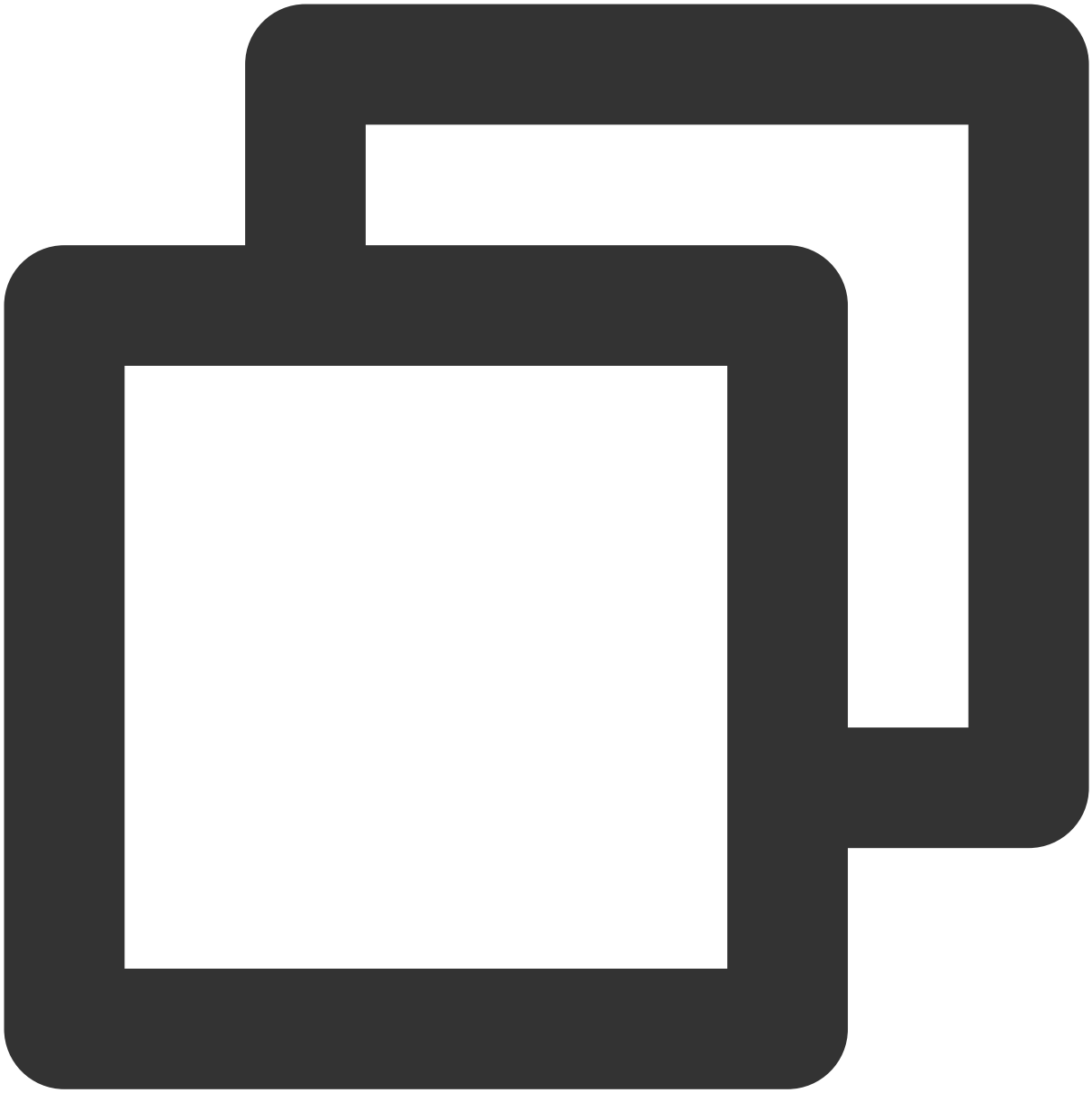

```
<Response>
    <RequestId>NjJmMWQxYjNfOTBmYTUwNjRfNWYyY18x</RequestId>
    <MediaWorkflow>
        <Name>workflow-1</Name>
        <State>Active</State>
        <WorkflowId>wc666d0b9f9dd47ae9137a096252d49f7</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-07-14T12:37:28+0800</CreateTime>
        <UpdateTime>2022-07-14T12:37:28+0800</UpdateTime>
        <Topology>
            <Dependencies>
```

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```
            <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
            <Snapshot_1581665960536>End</Snapshot_1581665960536>
            <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
            <Segment_15816659605667>End</Segment_15816659605667>
            <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
            <PicProcess_15816659605668>End</PicProcess_15816659605668>
        </Dependencies>
        <Nodes>
            <Start>
                <Type>Start</Type>
                <Input>
                    <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                    <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                    <ObjectPrefix>input/workflow-1</ObjectPrefix>
                    <NotifyConfig>
                        <State>On</State>
                        <Url>http://www.callback.com</Url>
                        <Event>TaskFinish,WorkflowFinish</Event>
                        <Type>Url</Type>
                        <ResultFormat>JSON</ResultFormat>
                    </NotifyConfig>
                    <ExtFilter>
                        <State>On</State>
                        <Video>true</Video>
                        <Audio>false</Audio>
                        <Image>false</Image>
                        <Custom>false</Custom>
                        <AllFile>false</AllFile>
                    </ExtFilter>
                </Input>
            </Start>
            <Snapshot_1581665960536>
                <Type>Snapshot</Type>
                <Operation>
                    <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                        <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                    </Output>
                </Operation>
            </Snapshot_1581665960536>
            <Transcode_1581665960538>
                <Type>Transcode</Type>
                <Operation>
                    <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
```

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```
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/trans.{Ext}</Object>
                        </Output>
                    </Operation>
                </Transcode_1581665960538>
                <Segment_15816659605667>
                    <Type>Segment</Type>
                    <Operation>
                        <Segment>
                            <Format>mkv</Format>
                            <Duration>25</Duration>
                        </Segment>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>test-trans${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </Segment_15816659605667>
                <SmartCover_1581665960539>
                    <Type>SmartCover</Type>
                    <Operation>
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </SmartCover_1581665960539>
                <PicProcess_15816659605668>
                    <Type>PicProcess</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Response>
```

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The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
Response	None	Same as Response in the workflow creation API.	Container	Yes

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request 1: Updating the workflow configuration

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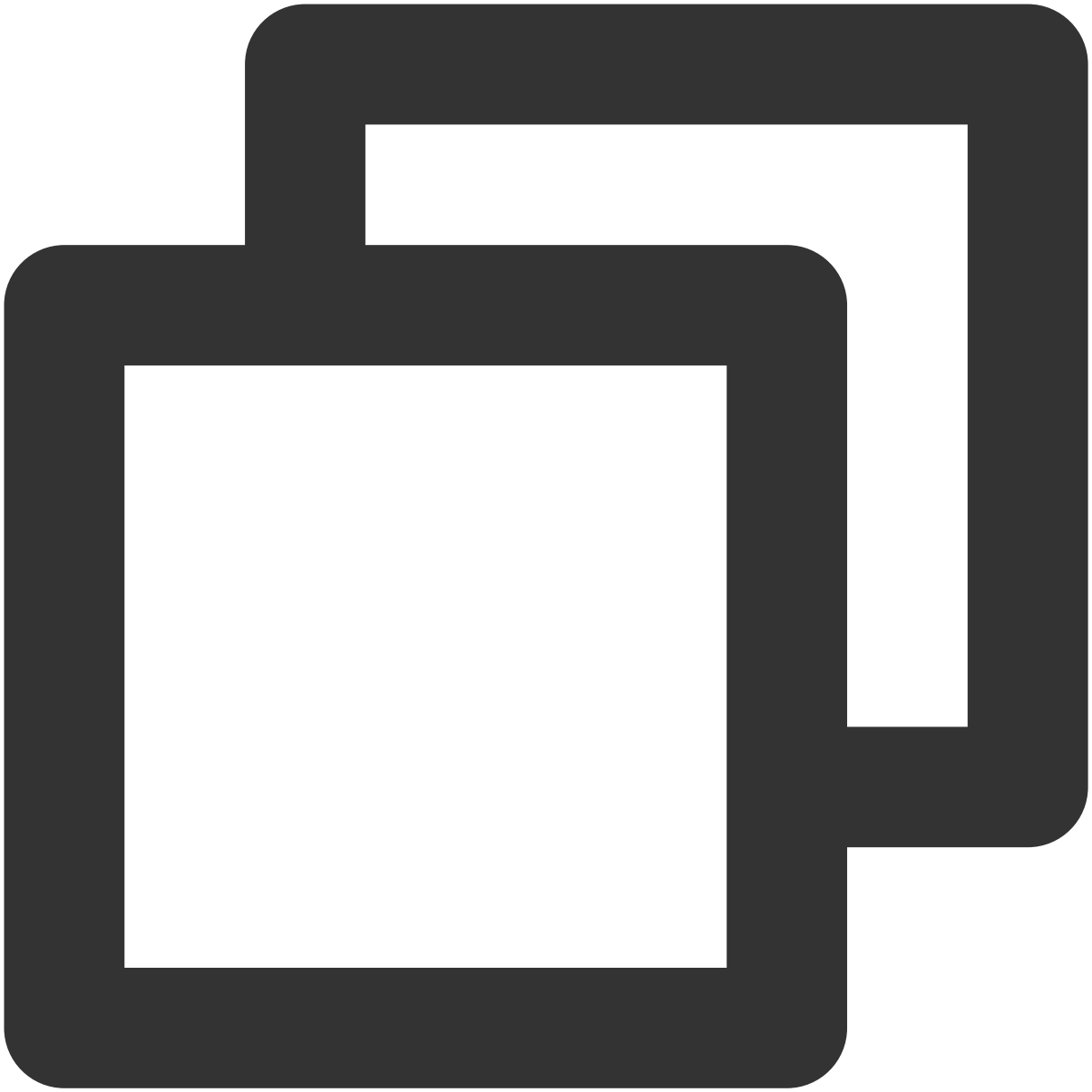

```
PUT /workflow/wc666d0b9f9dd47ae9137a096252d49f7 HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <MediaWorkflow>
        <Name>workflow-1</Name>
        <State>Active</State>
        <Topology>
```

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```
            <Dependencies>
                <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
                <Segment_15816659605667>End</Segment_15816659605667>
                <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
                <PicProcess_15816659605668>End</PicProcess_15816659605668>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                        <ObjectPrefix>input/workflow-1</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <Snapshot_1581665960536>
                    <Type>Snapshot</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                            <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                        </Output>
                    </Operation>
                </Snapshot_1581665960536>
                <Transcode_1581665960538>
                    <Type>Transcode</Type>
                    <Operation>
```

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```
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/trans.{Ext}</Object>
                        </Output>
                    </Operation>
                </Transcode_1581665960538>
                <Segment_15816659605667>
                    <Type>Segment</Type>
                    <Operation>
                        <Segment>
                            <Format>mkv</Format>
                            <Duration>25</Duration>
                        </Segment>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>test-trans${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </Segment_15816659605667>
                <SmartCover_1581665960539>
                    <Type>SmartCover</Type>
                    <Operation>
                        <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                        </Output>
                    </Operation>
                </SmartCover_1581665960539>
                <PicProcess_15816659605668>
                    <Type>PicProcess</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflow>
```

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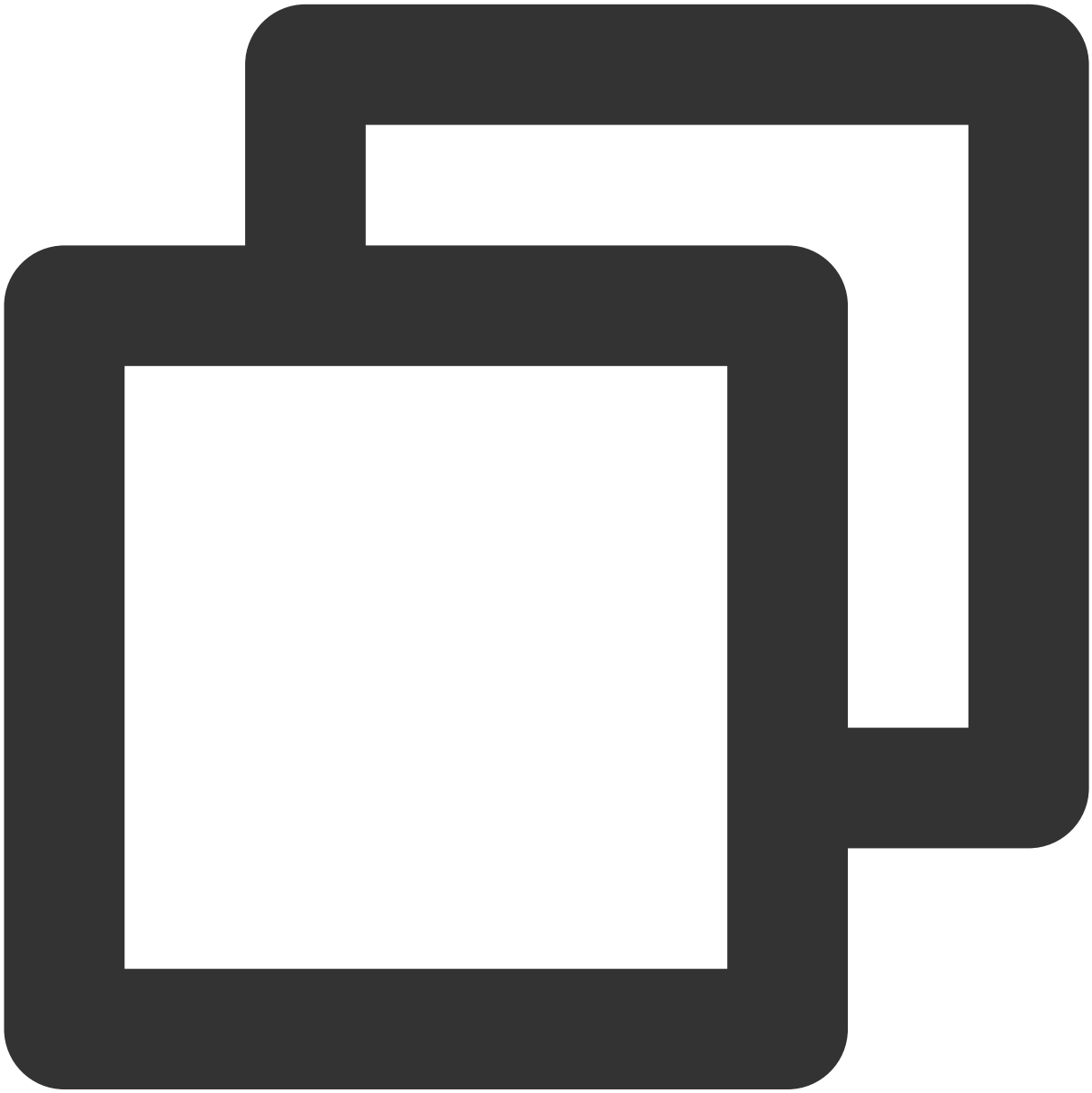
```
</Request>
```

Response 1



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjJmMWQxYjNfOTBmYTUwNjRfNWYyY18x
```

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```
<Response>
    <RequestId>NjJmMWQxYjNfOTBmYTUwNjRfNWYyY18x</RequestId>
    <MediaWorkflow>
        <Name>workflow-1</Name>
        <State>Active</State>
        <WorkflowId>wc666d0b9f9dd47ae9137a096252d49f7</WorkflowId>
        <BucketId>test-1234567890</BucketId>
        <CreateTime>2022-07-14T12:37:28+0800</CreateTime>
        <UpdateTime>2022-07-14T12:37:28+0800</UpdateTime>
        <Topology>
            <Dependencies>
                <Start>Snapshot_1581665960536,Transcode_1581665960538</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960538>Segment_15816659605667,SmartCover_15816659
                <Segment_15816659605667>End</Segment_15816659605667>
                <SmartCover_1581665960539>PicProcess_15816659605668</SmartCover_158
                <PicProcess_15816659605668>End</PicProcess_15816659605668>
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                        <ObjectPrefix>input/workflow-1</ObjectPrefix>
                        <NotifyConfig>
                            <State>On</State>
                            <Url>http://www.callback.com</Url>
                            <Event>TaskFinish,WorkflowFinish</Event>
                            <Type>Url</Type>
                            <ResultFormat>JSON</ResultFormat>
                        </NotifyConfig>
                        <ExtFilter>
                            <State>On</State>
                            <Video>true</Video>
                            <Audio>false</Audio>
                            <Image>false</Image>
                            <Custom>false</Custom>
                            <AllFile>false</AllFile>
                        </ExtFilter>
                    </Input>
                </Start>
                <Snapshot_1581665960536>
                    <Type>Snapshot</Type>
                    <Operation>
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>abc/${RunId}/snapshot-${number}.${Ext}</Object>
                    <SpriteObject>abc/${RunId}/sprite-${number}.${Ext}</Spr
                </Output>
            </Operation>
        </Snapshot_1581665960536>
        <Transcode_1581665960538>
            <Type>Transcode</Type>
            <Operation>
                <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>bcd/${RunId}/trans.{Ext}</Object>
                </Output>
            </Operation>
        </Transcode_1581665960538>
        <Segment_15816659605667>
            <Type>Segment</Type>
            <Operation>
                <Segment>
                    <Format>mkv</Format>
                    <Duration>25</Duration>
                </Segment>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>test-trans${Number}.{Ext}</Object>
                </Output>
            </Operation>
        </Segment_15816659605667>
        <SmartCover_1581665960539>
            <Type>SmartCover</Type>
            <Operation>
                <TemplateId>t16e81a29fe48c4e23acefc247a7792b63</TemplateId>
                <Output>
                    <Region>ap-chongqing</Region>
                    <Bucket>test-1234567890</Bucket>
                    <Object>abc/${RunId}/cover-${Number}.{Ext}</Object>
                </Output>
            </Operation>
        </SmartCover_1581665960539>
        <PicProcess_15816659605668>
            <Type>PicProcess</Type>
            <Operation>
```

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```
                        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>bcd/${RunId}/pic.{Ext}</Object>
                        </Output>
                    </Operation>
                </PicProcess_15816659605668>
            </Nodes>
        </Topology>
    </MediaWorkflow>
</Response>
```

Request 2: Disabling a workflow

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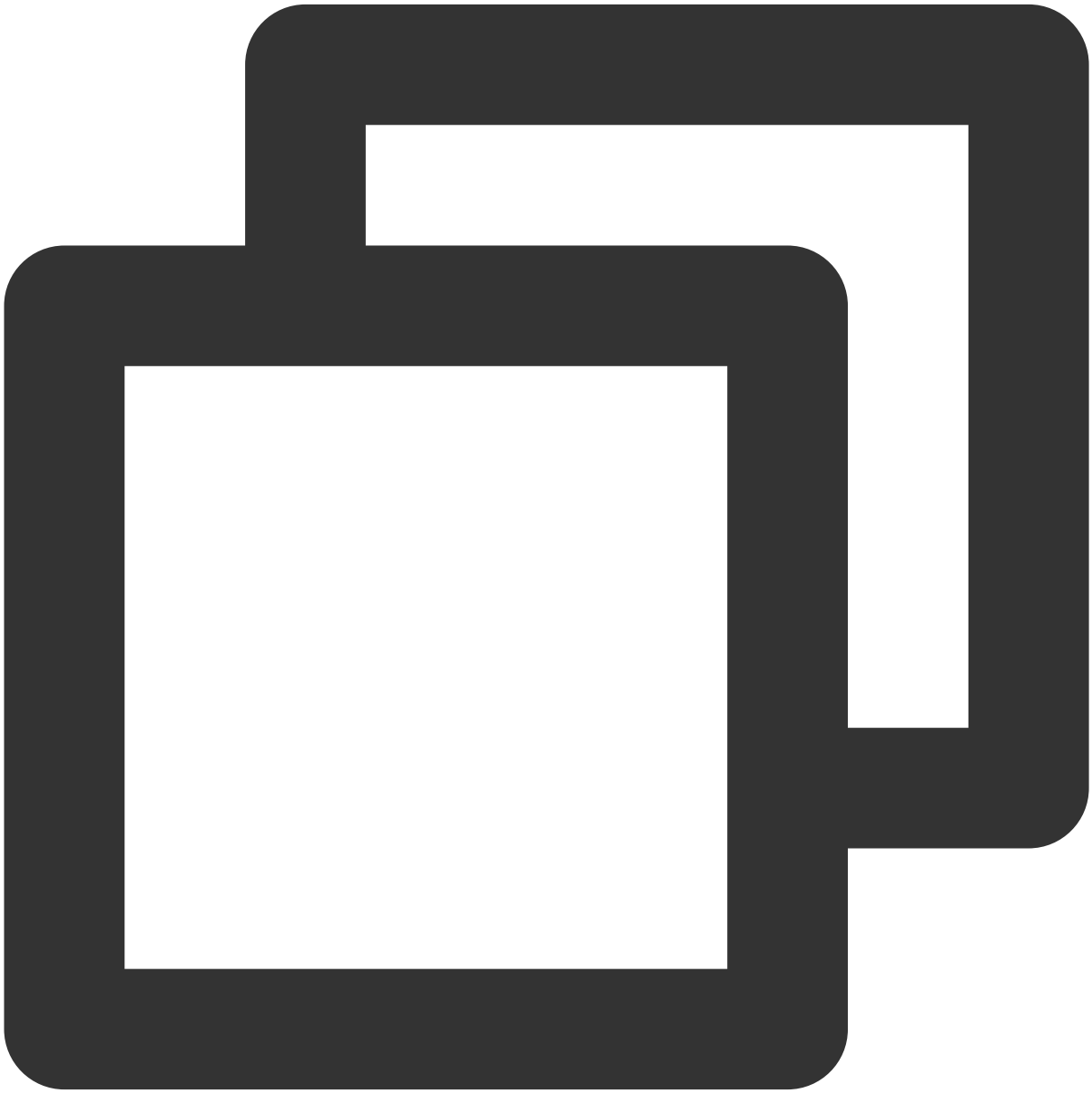

```
PUT /workflow/wc666d0b9f9dd47ae9137a096252d49f7?paused HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response 2

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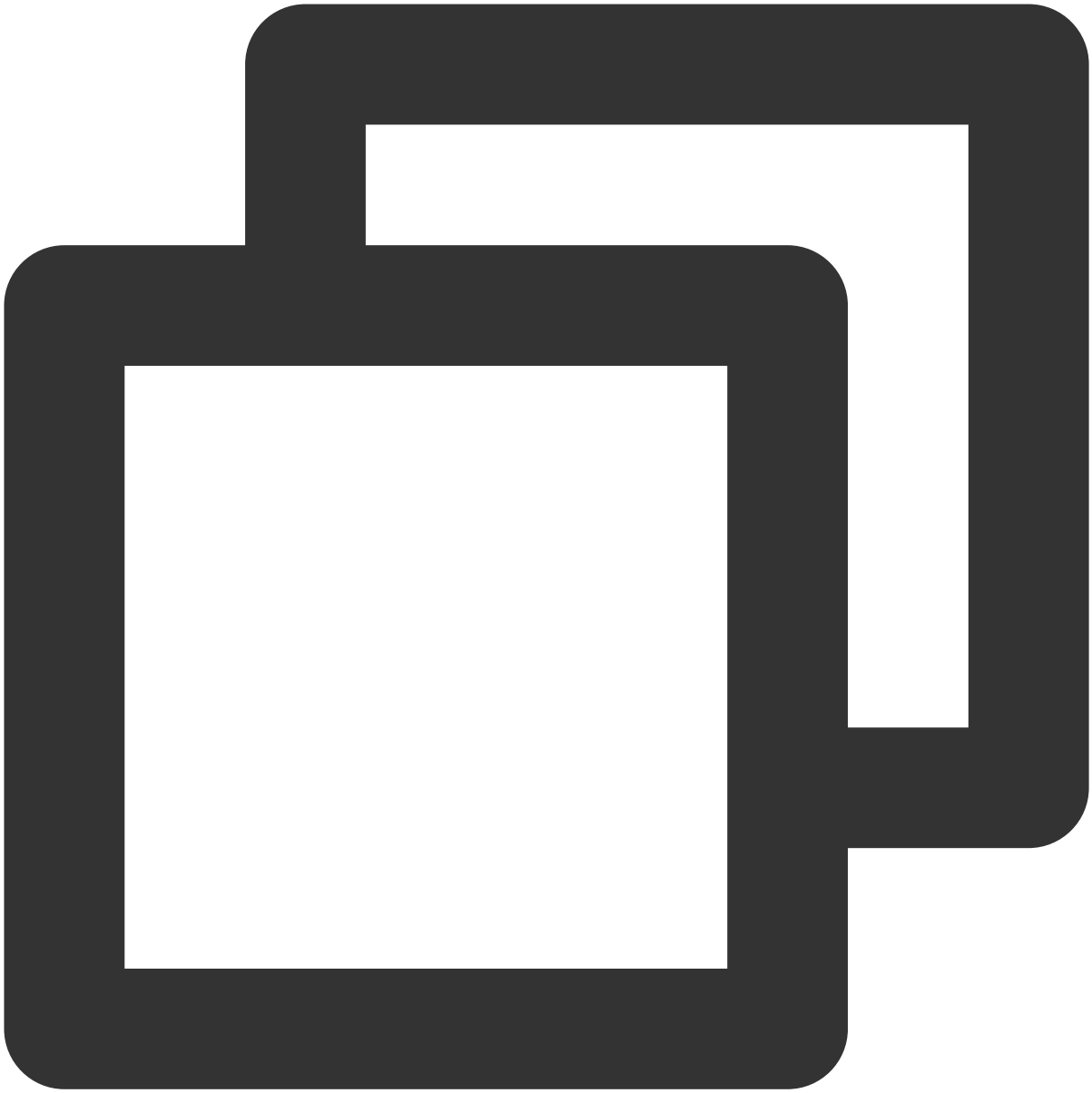

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjJmMWRiMDlfOTBmYTUwNjRfNWYzMl80
```

Request 3: Enabling a workflow

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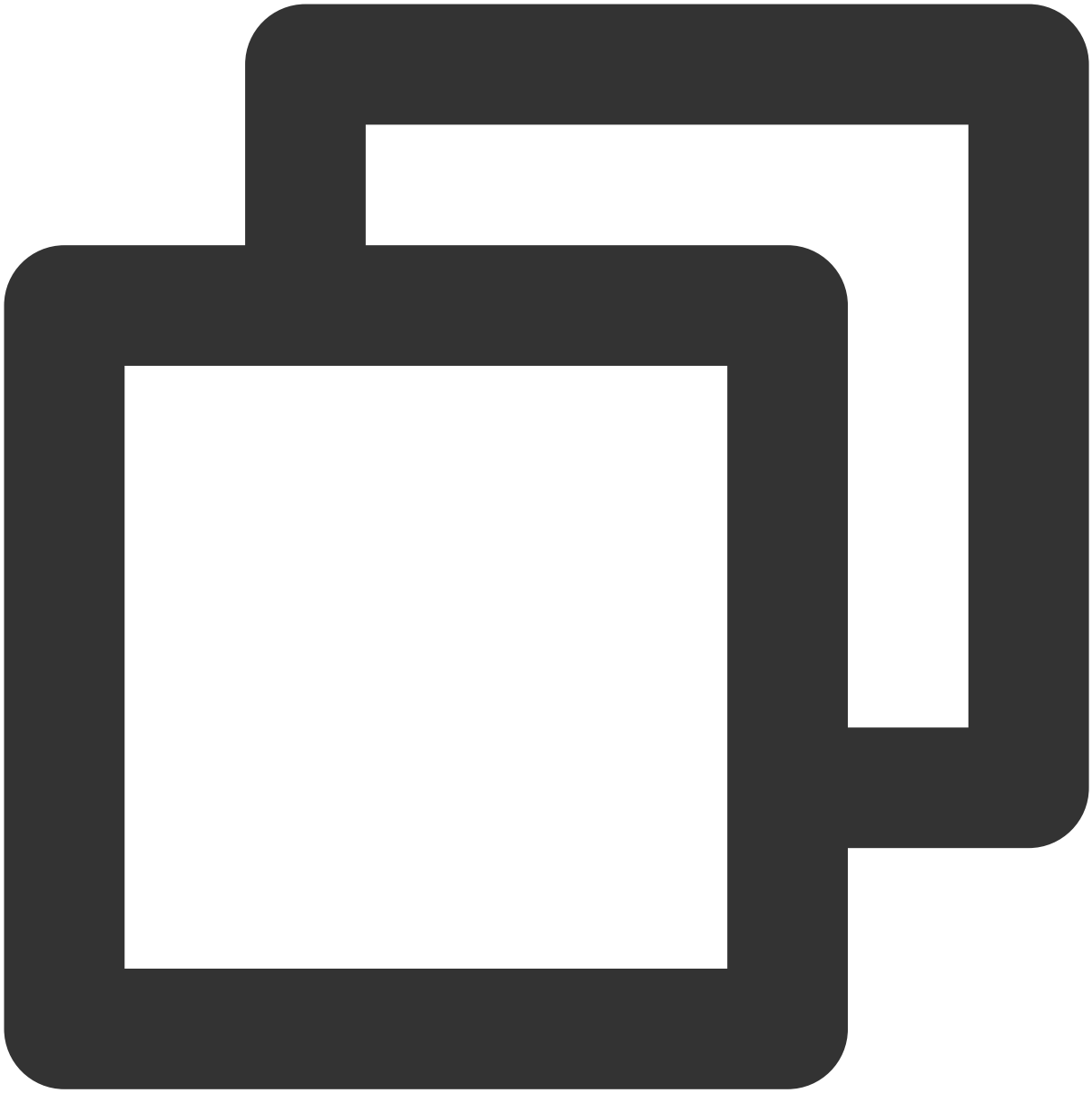

```
PUT /workflow/wc666d0b9f9dd47ae9137a096252d49f7?active HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response 3

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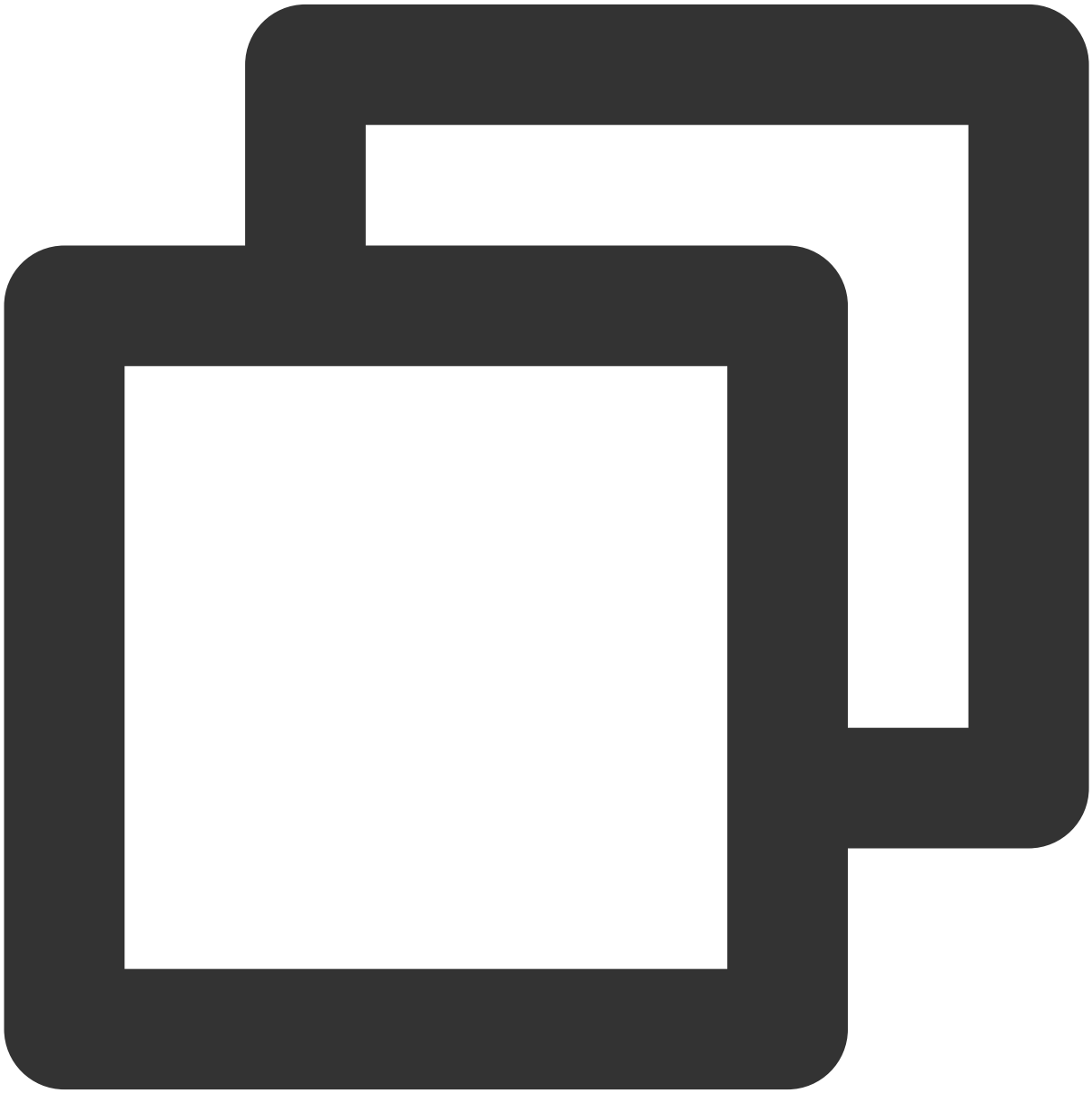

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjJmMWRiMDlfOTBmYTUwNjRfNWYzMl80
```

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Testing Workflow

Last updated：2024-06-12 15:31:54

Feature Description

This API is used to test a workflow.

Request

Sample request

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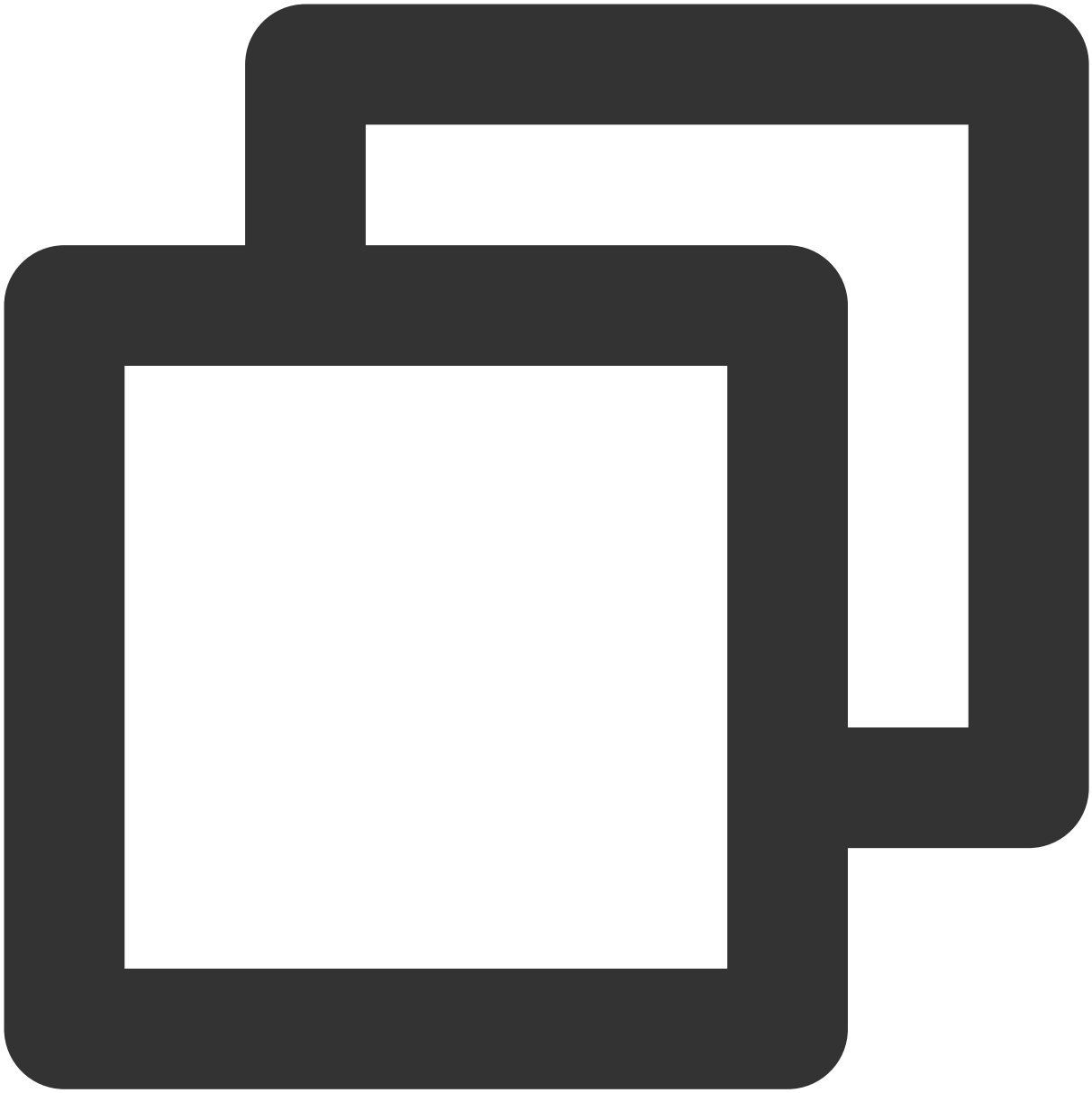

```
POST /triggerworkflow?workflowId=xxx&object=xxx HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request parameters

Field	Description	Type	Required
workflowId	ID of the workflow to trigger	String	Yes
object	Name of the object that requires workflow processing, which needs to be URL-encoded.	String	Yes
name	Batch data processing job name, which can contain up to 128 letters, digits, hyphens, and underscores and is empty by default	String	No

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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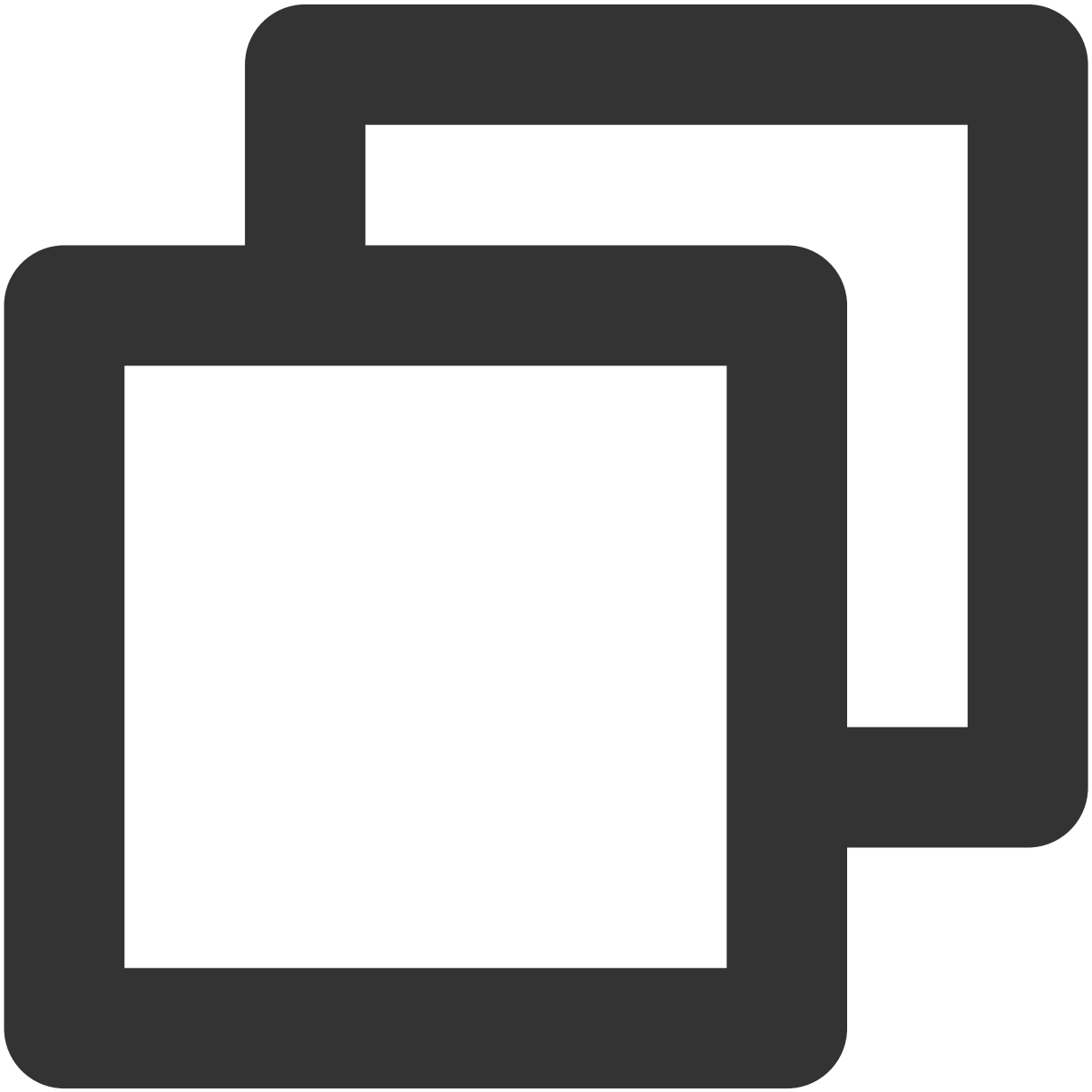

```
<Response>
    <RequestId>NjJmMWZmMzRfOTBmYTUwNjRfNjVmOF8x</RequestId>
    <InstanceId>i6fc78ca77d6011eba0ac5254008618d9=</InstanceId>
<Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
InstanceId	Response	Instance ID	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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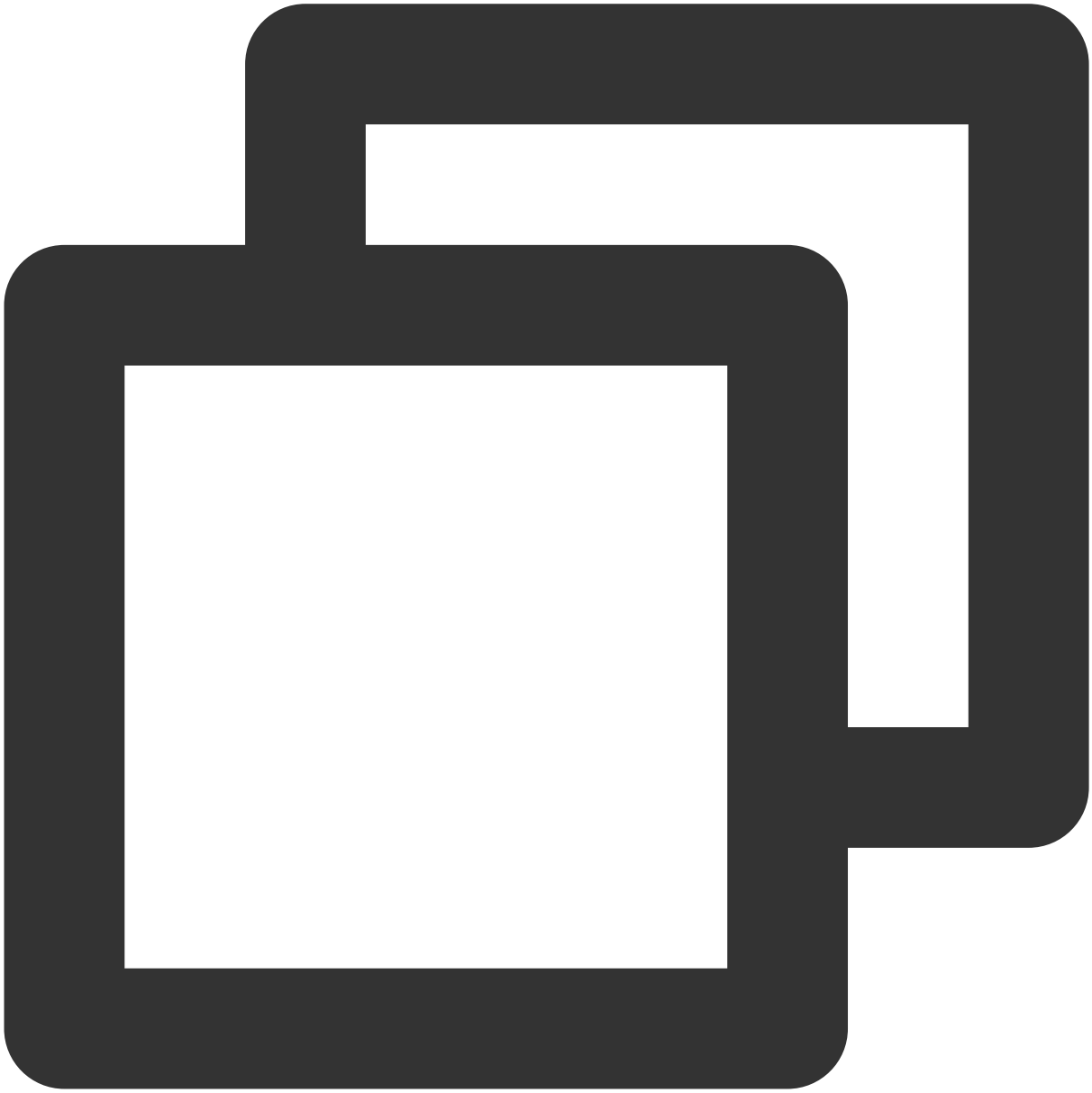

```
POST /triggerworkflow?workflowId=we59a9648e62e48ffb25e4b41f3721799&object=test.mp4
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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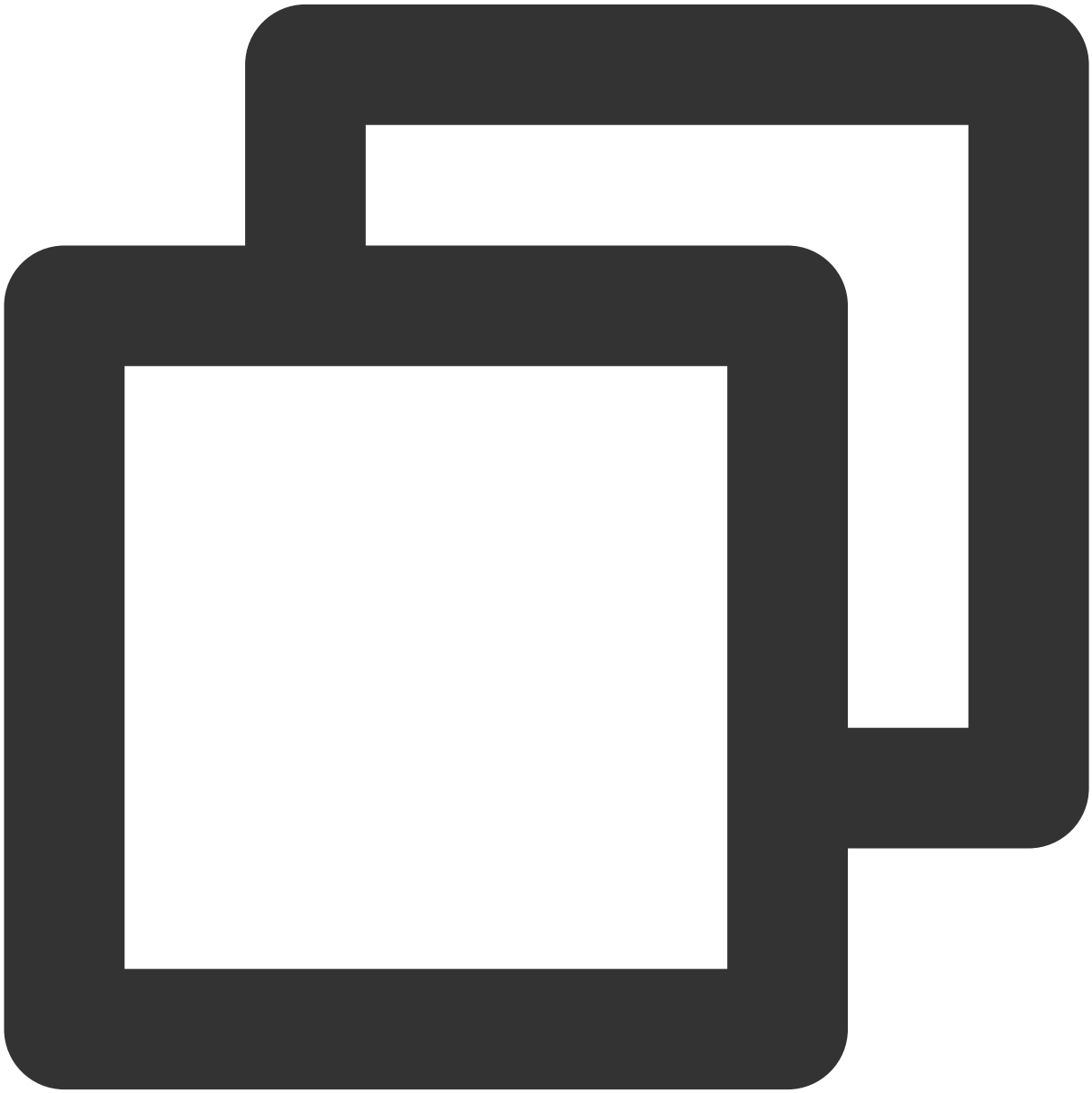

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjJmMWZmMzRfOTBmYTUwNjRfNjVmOF8x

<Response>
    <RequestId>NjJmMWZmMzRfOTBmYTUwNjRfNjVmOF8x</RequestId>
    <InstanceId>i6fc78ca77d6011eba0ac5254008618d9=</InstanceId>
```

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```
<Response>
```

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Workflow Callback

Last updated：2024-06-12 15:31:54

Feature Description

CI supports user-defined callback URLs. With a workflow enabled, after each instance is executed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the workflow instance so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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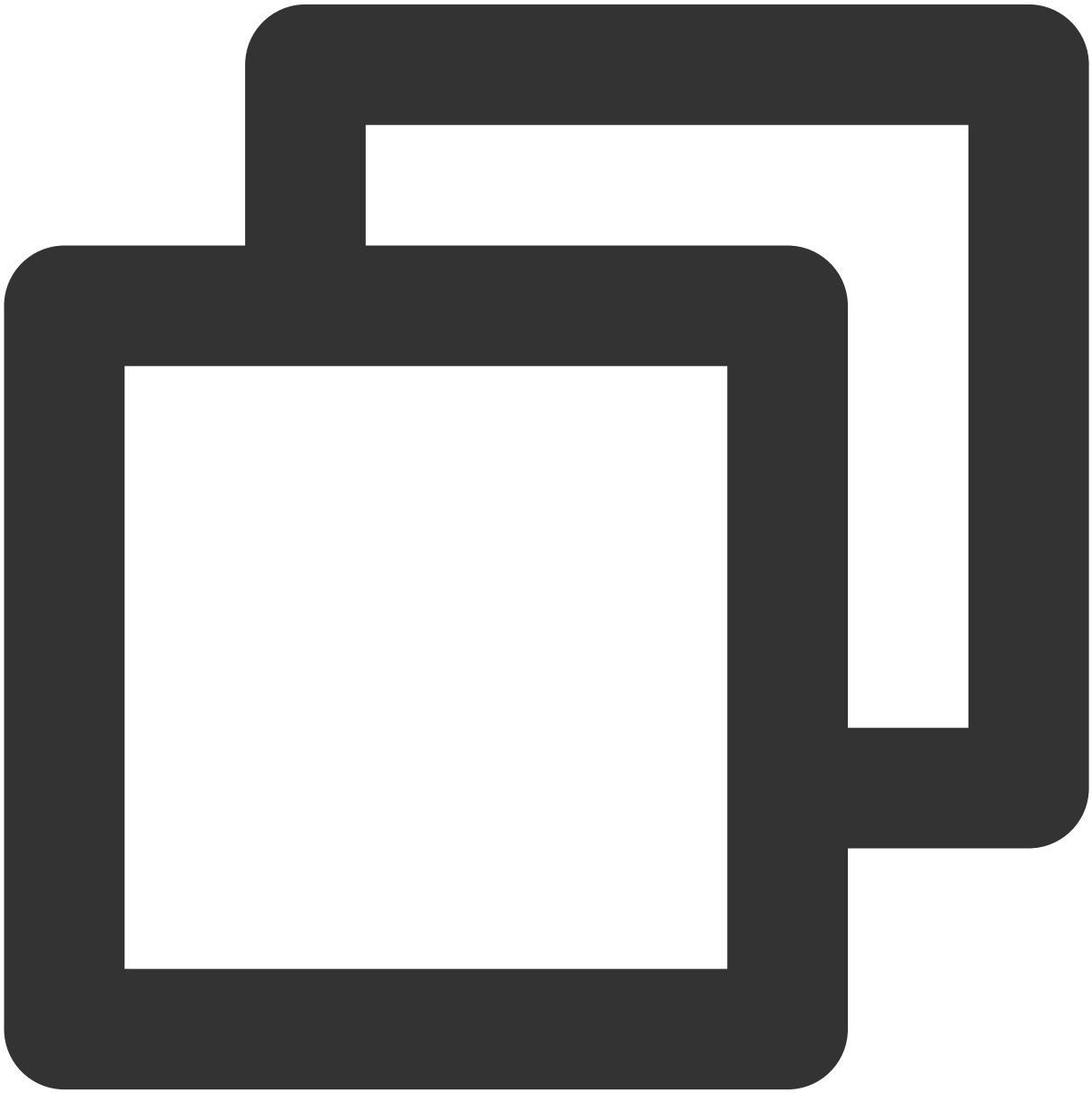

```
<Response>
    <EventName>WorkflowFinish</EventName>
    <WorkflowExecution>
        <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
        <WorkflowName>workflow-3</WorkflowName>
        <RunId>i166ee19017b011eda8a5525400c540df</RunId>
        <State>Success</State>
        <BucketId>test-1234567890</BucketId>
        <Object>wk-test/game.mp4</Object>
        <CreateTime>2022-08-09 14:54:17+0800</CreateTime>
        <CosHeaders>
```

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```
            <Key>Content-Type</Key>
            <Value>video/mp4</Value>
        </CosHeaders>
        <CosHeaders>
            <Key>x-cos-request-id</Key>
            <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
        </CosHeaders>
        <Tasks>
            <Type>Snapshot</Type>
            <CreateTime>2022-08-09 14:54:40+0800</CreateTime>
            <EndTime>2022-08-09 14:54:42+0800</EndTime>
            <State>Success</State>
            <JobId>j23c11e1e17b011edaab4ab15ec33d076</JobId>
            <Name>Snapshot_1581665960536</Name>
            <TemplateId>t07740e32081b44ad7a0aea03adcffd54a</TemplateId>
            <TemplateName>snapshot_1280*720_3</TemplateName>
        </Tasks>
        <Tasks>
            <Type>Transcode</Type>
            <CreateTime>2022-08-09 14:54:18+0800</CreateTime>
            <EndTime>2022-08-09 14:54:39+0800</EndTime>
            <State>Success</State>
            <JobId>j168668b217b011ed8efb27bb229e2d11</JobId>
            <Name>Transcode_1581665960537</Name>
            <TemplateId>t01e57db1c2d154d2fb57aa5de9313a897</TemplateId>
            <TemplateName>MP4-265-SD</TemplateName>
        </Tasks>
    </WorkflowExecution>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `WorkflowFinish` .	String
WorkflowExecution	Response	Workflow details	Container

`WorkflowExecution` has the following sub-nodes:

Node Name	Parent Node	Description	Type

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(Keyword)			
WorkflowId	Response.WorkflowExecution	Workflow ID	String
WorkflowName	Response.WorkflowExecution	Workflow name	String
RunId	Response.WorkflowExecution	Workflow instance ID	String
State	Response.WorkflowExecution	Instance status. The value can be `Success` or `Failed`. As long as one job is in `Failed` status, the instance is regarded as `Failed`.	String
BucketId	Response.WorkflowExecution	Bucket of the processed file	String
Object	Response.WorkflowExecution	Name of the file processed by the instance	String
CreateTime	Response.WorkflowExecution	Instance creation time	String
CosHeaders	Response.WorkflowExecution	List of custom headers configured during object upload. If no list is configured, this node will not be included.	Container array
Tasks	Response.WorkflowExecution	Job information list	Container array

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.WorkflowExecution.CosHeaders	Name of the custom header	String
Value	Response.WorkflowExecution.CosHeaders	Value of the custom header	String

`Tasks` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Type	Response.WorkflowExecution.Tasks	Job type	String
Createtime	Response.WorkflowExecution.Tasks	Job creation time	String
StartTime	Response.WorkflowExecution.Tasks	Job start time	String
EndTime	Response.WorkflowExecution.Tasks	Job end time	String

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State	Response.WorkflowExecution.Tasks	Job status. Valid values: `Success`, `Failed`.	String
JobId	Response.WorkflowExecution.Tasks	Job ID	String
Name	Response.WorkflowExecution.Tasks	Name of the job node in the workflow	String
TemplateId	Response.WorkflowExecution.Tasks	Job template ID	String
TemplateName	Response.WorkflowExecution.Tasks	Job template name	String

Samples

Sample 1 (XML)

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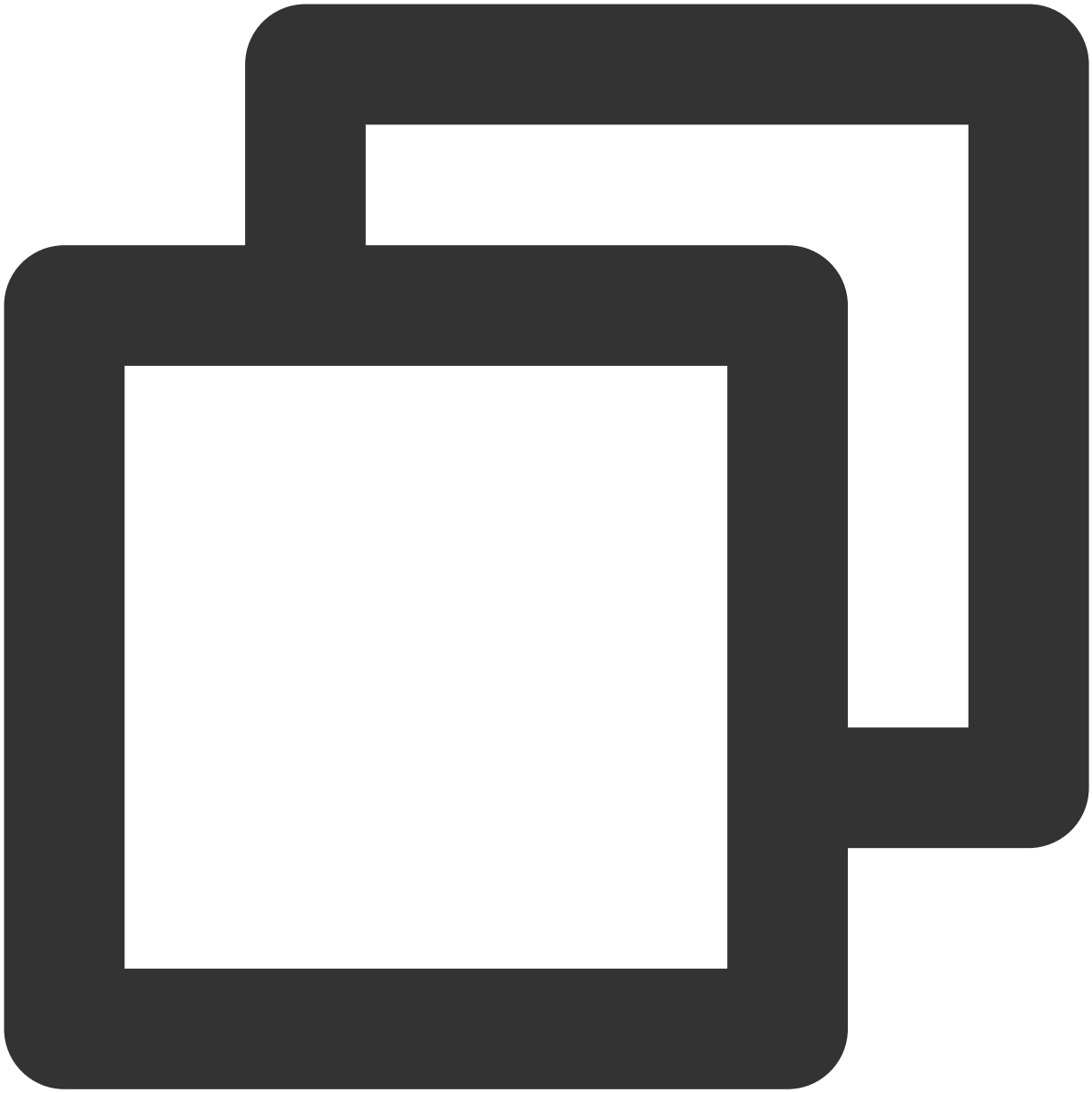

```
<Response>
    <EventName>WorkflowFinish</EventName>
    <WorkflowExecution>
        <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
        <WorkflowName>workflow-3</WorkflowName>
        <RunId>i166ee19017b011eda8a5525400c540df</RunId>
        <State>Success</State>
        <BucketId>test-1234567890</BucketId>
        <Object>wk-test/game.mp4</Object>
        <CreateTime>2022-08-09 14:54:17+0800</CreateTime>
        <CosHeaders>
```

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```
            <Key>Content-Type</Key>
            <Value>video/mp4</Value>
        </CosHeaders>
        <CosHeaders>
            <Key>x-cos-request-id</Key>
            <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
        </CosHeaders>
        <Tasks>
            <Type>Snapshot</Type>
            <CreateTime>2022-08-09 14:54:40+0800</CreateTime>
            <EndTime>2022-08-09 14:54:42+0800</EndTime>
            <State>Success</State>
            <JobId>j23c11e1e17b011edaab4ab15ec33d076</JobId>
            <Name>Snapshot_1581665960536</Name>
            <TemplateId>t07740e32081b44ad7a0aea03adcffd54a</TemplateId>
            <TemplateName>snapshot_1280*720_3</TemplateName>
        </Tasks>
        <Tasks>
            <Type>Transcode</Type>
            <CreateTime>2022-08-09 14:54:18+0800</CreateTime>
            <EndTime>2022-08-09 14:54:39+0800</EndTime>
            <State>Success</State>
            <JobId>j168668b217b011ed8efb27bb229e2d11</JobId>
            <Name>Transcode_1581665960537</Name>
            <TemplateId>t01e57db1c2d154d2fb57aa5de9313a897</TemplateId>
            <TemplateName>MP4-265-SD</TemplateName>
        </Tasks>
    </WorkflowExecution>
</Response>
```

Sample 2 (JSON)

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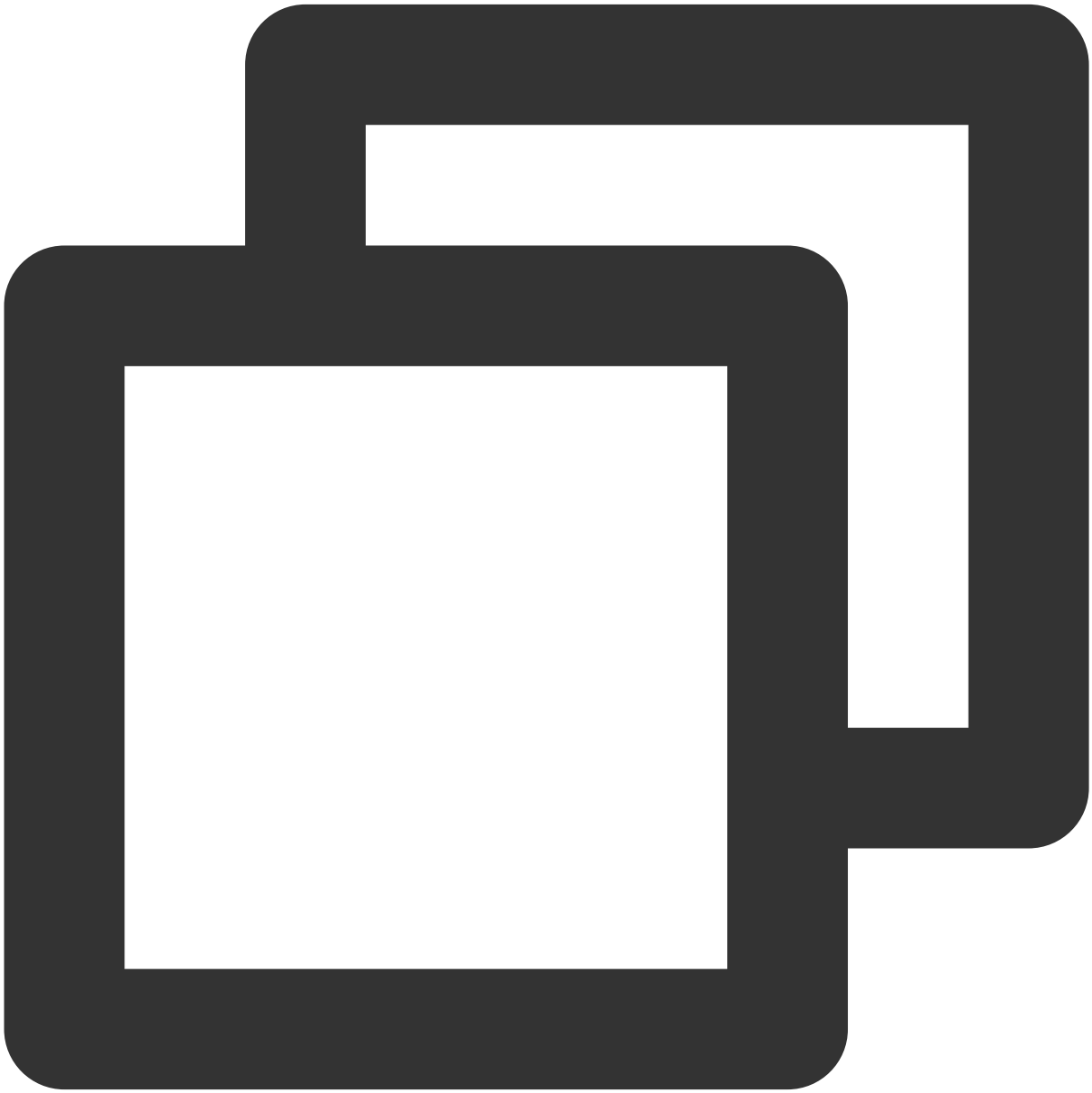


```
{
    "EventName": "WorkflowFinish",
    "WorkflowExecution": {
        "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
        "WorkflowName": "workflow-3",
        "RunId": "i166ee19017b011eda8a5525400c540df",
        "State": "Success",
        "BucketId": "test-1234567890",
        "Object": "wk-test/game.mp4",
        "CreateTime": "2022-08-09 14:54:17+0800",
        "CosHeaders": [{
```


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```
                "Key": "Content-Type",
                "Value": "video/mp4"
            },
            {
                "Key": "x-cos-request-id",
                "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
            }
        ],
        "Tasks": [{
                "Type": "Snapshot",
                "CreateTime": "2022-08-09 14:54:40+0800",
                "EndTime": "2022-08-09 14:54:42+0800",
                "State": "Success",
                "JobId": "j23c11e1e17b011edaab4ab15ec33d076",
                "Name": "Snapshot_1581665960536",
                "TemplateId": "t07740e32081b44ad7a0aea03adcffd54a",
                "TemplateName": "snapshot_1280*720_3"
            },
            {
                "Type": "Transcode",
                "CreateTime": "2022-08-09 14:54:18+0800",
                "EndTime": "2022-08-09 14:54:39+0800",
                "State": "Success",
                "JobId": "j168668b217b011ed8efb27bb229e2d11",
                "Name": "Transcode_1581665960537",
                "TemplateId": "t01e57db1c2d154d2fb57aa5de9313a897",
                "TemplateName": "MP4-265-SD"
            }
        ]
    }
}
```


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Workflow Instance
Getting Workflow Instance Details

Last updated：2024-06-12 15:31:54

Feature Description

This API is used to get the details of a workflow instance.

Request

Sample request

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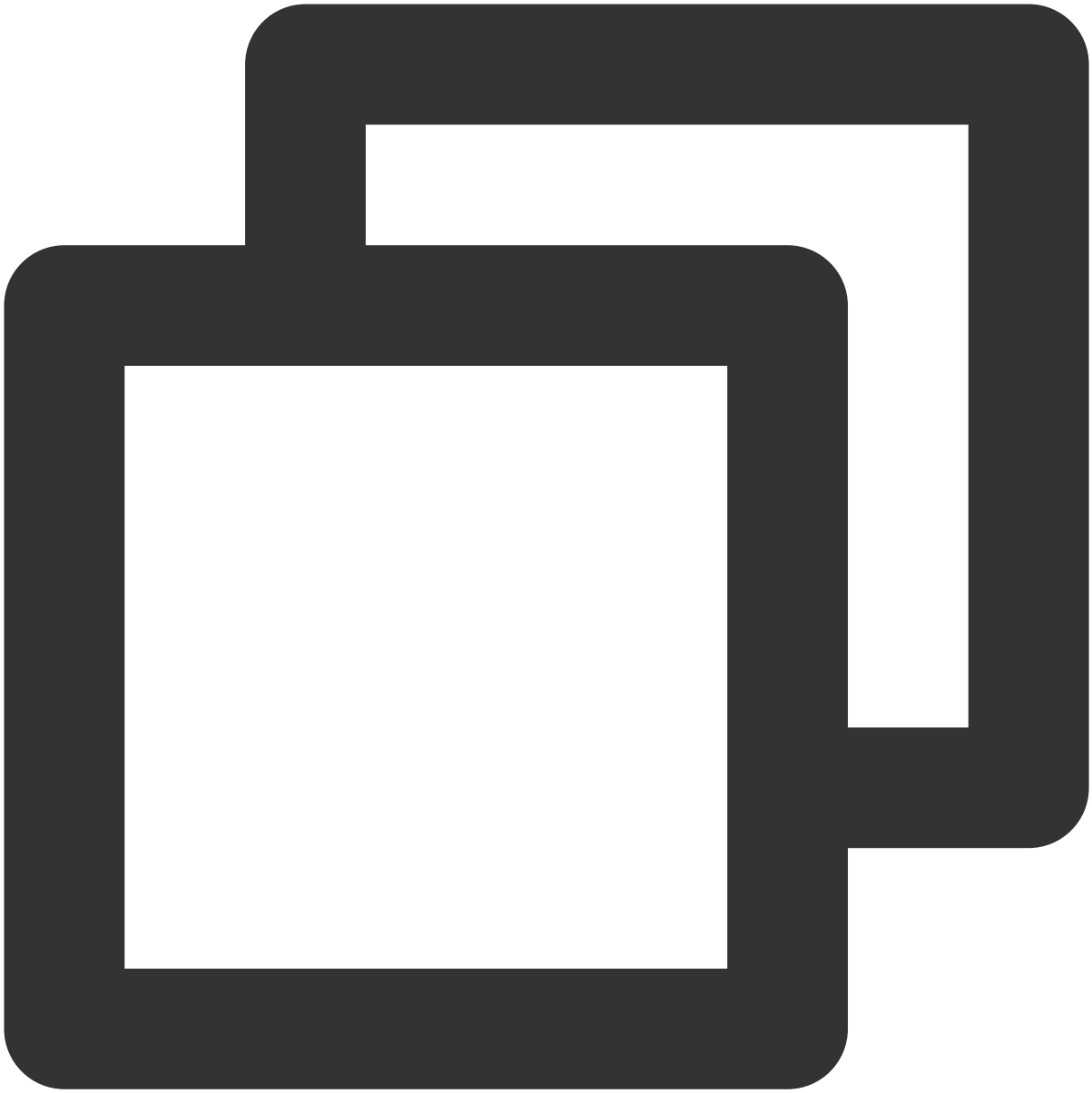

```
GET /workflowexecution/<RunId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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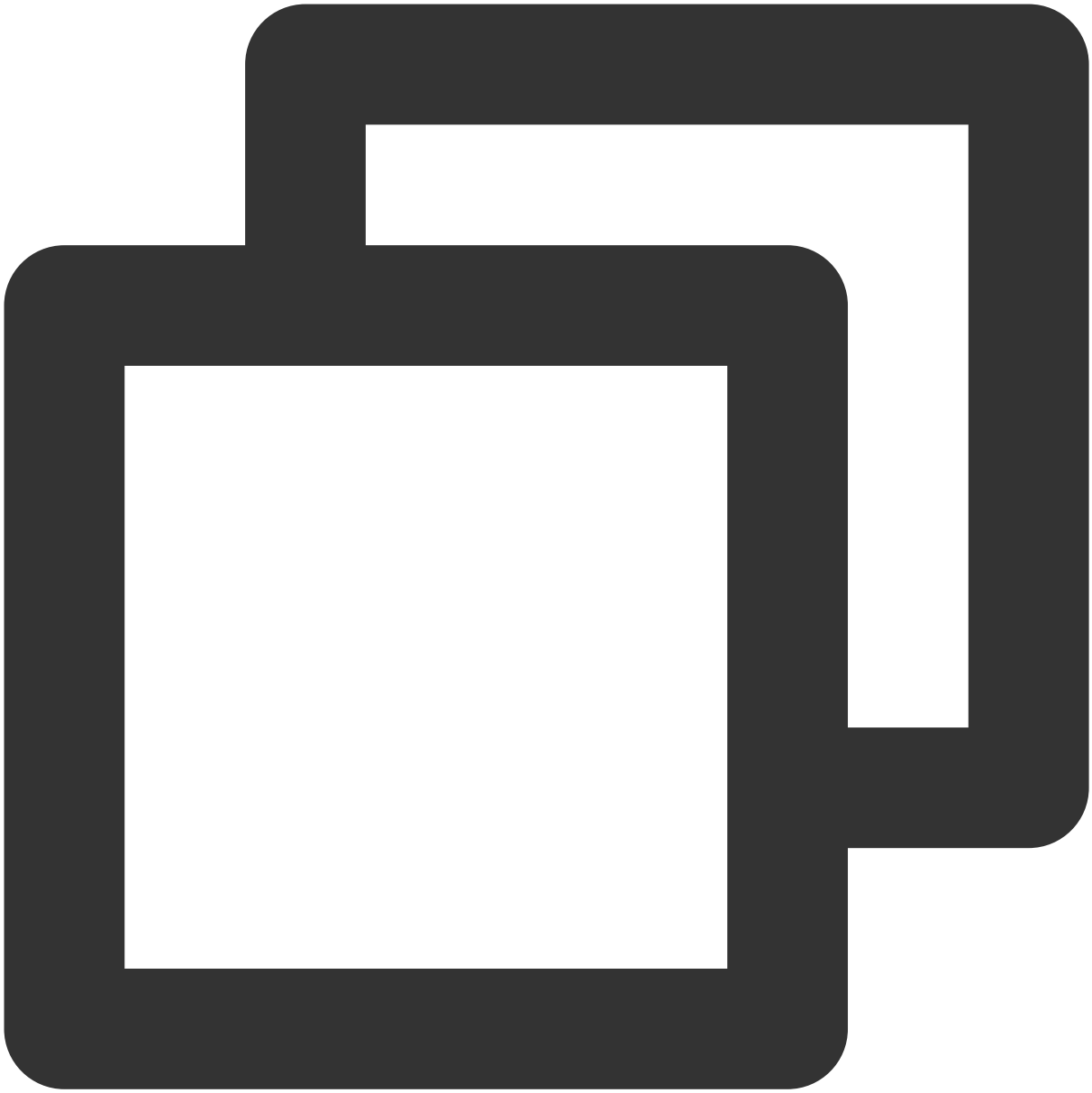

```
<Response>
    <RequestId>NjJmMjA5MjZfZWM0YTYyNjRfN2U3ZF8yNzk1</RequestId>
    <WorkflowExecution>
        <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
        <Name>workflow-1</Name>
        <RunId>i166ee19017b011eda8a5525400c540df</RunId>
        <CreateTime>2022-08-09T14:54:17+08:00</CreateTime>
        <Object>wk-test/game.mp4</Object>
        <State>Success</State>
        <Topology>
            <Dependencies>
```

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```
            <Start>Transcode_1581665960537</Start>
            <Snapshot_1581665960536>End</Snapshot_1581665960536>
            <Transcode_1581665960537>Snapshot_1581665960536</Transcode_15816659
        </Dependencies>
        <Nodes>
            <Start>
                <Type>Start</Type>
                <Input>
                    <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                    <ObjectPrefix>/wk-test</ObjectPrefix>
                    <ExtFilter>
                        <State>On</State>
                        <Video>false</Video>
                        <Audio>false</Audio>
                        <ContentType>false</ContentType>
                        <Custom>true</Custom>
                        <CustomExts>mp4</CustomExts>
                        <AllFile>false</AllFile>
                        <Image>false</Image>
                    </ExtFilter>
                    <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                </Input>
            </Start>
            <Snapshot_1581665960536>
                <Type>Snapshot</Type>
                <Operation>
                    <TemplateId>t07740e32081b44ad7a0aea03adcffd54a</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>snapshot-${number}.jpg</Object>
                    </Output>
                </Operation>
            </Snapshot_1581665960536>
            <Transcode_1581665960537>
                <Type>Transcode</Type>
                <Operation>
                    <TemplateId>t01e57db1c2d154d2fb57aa5de9313a897</TemplateId>
                    <Output>
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>trans1.mp4</Object>
                    </Output>
                </Operation>
            </Transcode_1581665960537>
        </Nodes>
    </Topology>
```

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```
        <Tasks>
            <Type>Snapshot</Type>
            <JobId>j23c11e1e17b011edaab4ab15ec33d076</JobId>
            <CreateTime>2022-08-09T14:54:40+08:00</CreateTime>
            <Name>Snapshot_1581665960536</Name>
            <State>Success</State>
            <StartTime>2022-08-09T14:54:40+08:00</StartTime>
            <EndTime>2022-08-09T14:54:42+08:00</EndTime>
            <Code>Success</Code>
            <Message></Message>
        </Tasks>
        <Tasks>
            <Type>Transcode</Type>
            <JobId>j168668b217b011ed8efb27bb229e2d11</JobId>
            <CreateTime>2022-08-09T14:54:18+08:00</CreateTime>
            <Name>Transcode_1581665960537</Name>
            <State>Success</State>
            <StartTime>2022-08-09T14:54:18+08:00</StartTime>
            <EndTime>2022-08-09T14:54:39+08:00</EndTime>
            <Code>Success</Code>
            <Message>success</Message>
        </Tasks>
    </WorkflowExecution>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Request ID	String
WorkflowExecution	Response	Workflow instance details	Container

`WorkflowExecution` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
WorkflowId	Response.WorkflowExecution	Workflow ID	String
WorkflowName	Response.WorkflowExecution	Workflow name	String

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RunId	Response.WorkflowExecution	Workflow instance ID	String
CreateTime	Response.WorkflowExecution	Creation time	String
Object	Response.WorkflowExecution	COS object address	String
State	Response.WorkflowExecution	Workflow instance status	String
Topology	Response.WorkflowExecution	Same as Topology in the workflow creation API.	Container
Tasks	Response.WorkflowExecution	Workflow instance job	Container array

`Tasks` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Type	Response.WorkflowExecution.Tasks	Job node type	String
State	Response.WorkflowExecution.Tasks	Job status	String
JobId	Response.WorkflowExecution.Tasks	Job ID	String
CreateTime	Response.WorkflowExecution.Tasks	Job creation time	String
StartTime	Response.WorkflowExecution.Tasks	Job start time	String
EndTime	Response.WorkflowExecution.Tasks	Job end time	String
Code	Response.WorkflowExecution.Tasks	Job error code	String
Message	Response.WorkflowExecution.Tasks	Job error message	String
Name	Response.WorkflowExecution.Tasks	Workflow node name	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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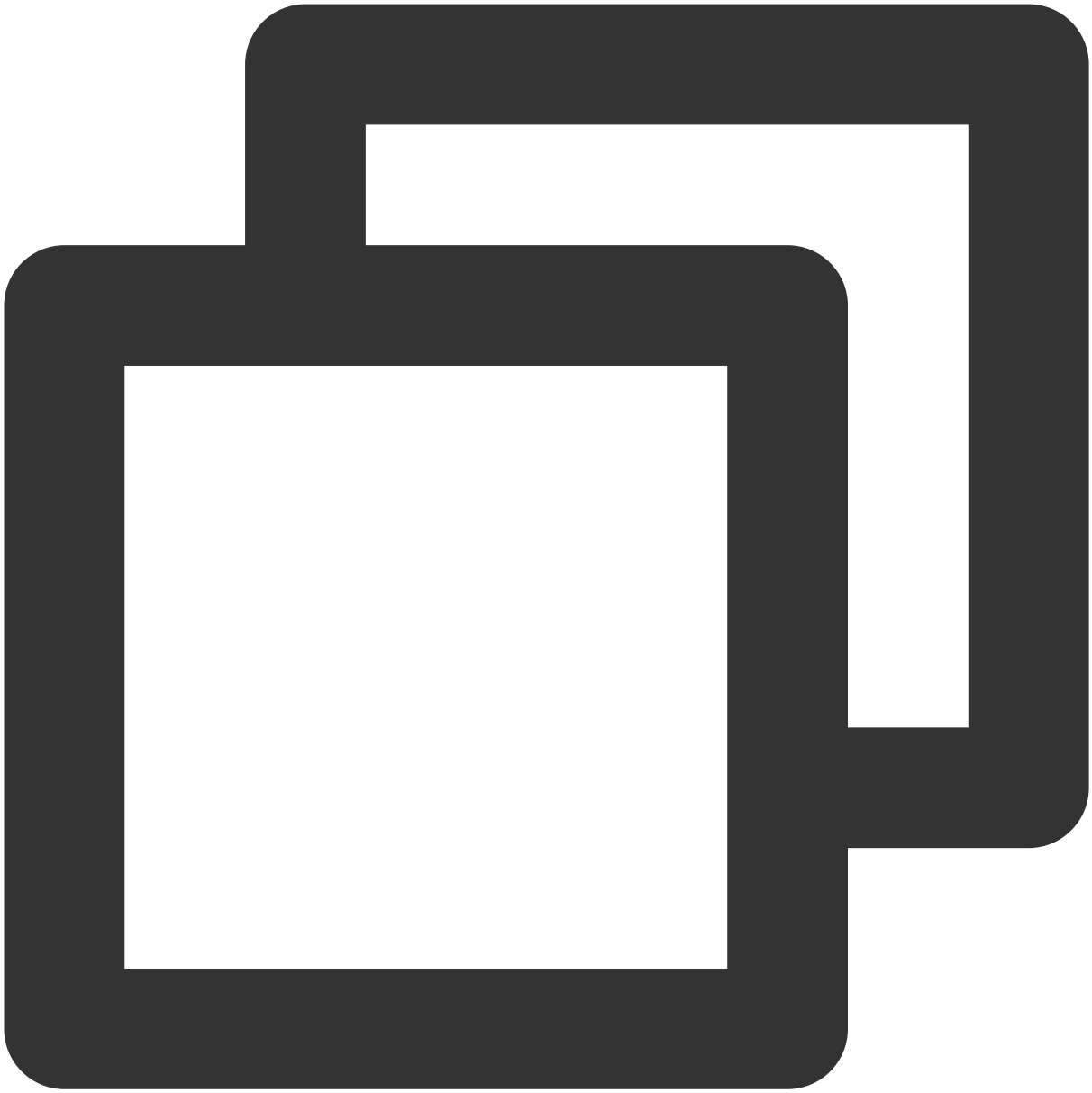

```
GET /workflowexecution/i166ee19017b011eda8a5525400c540df HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response

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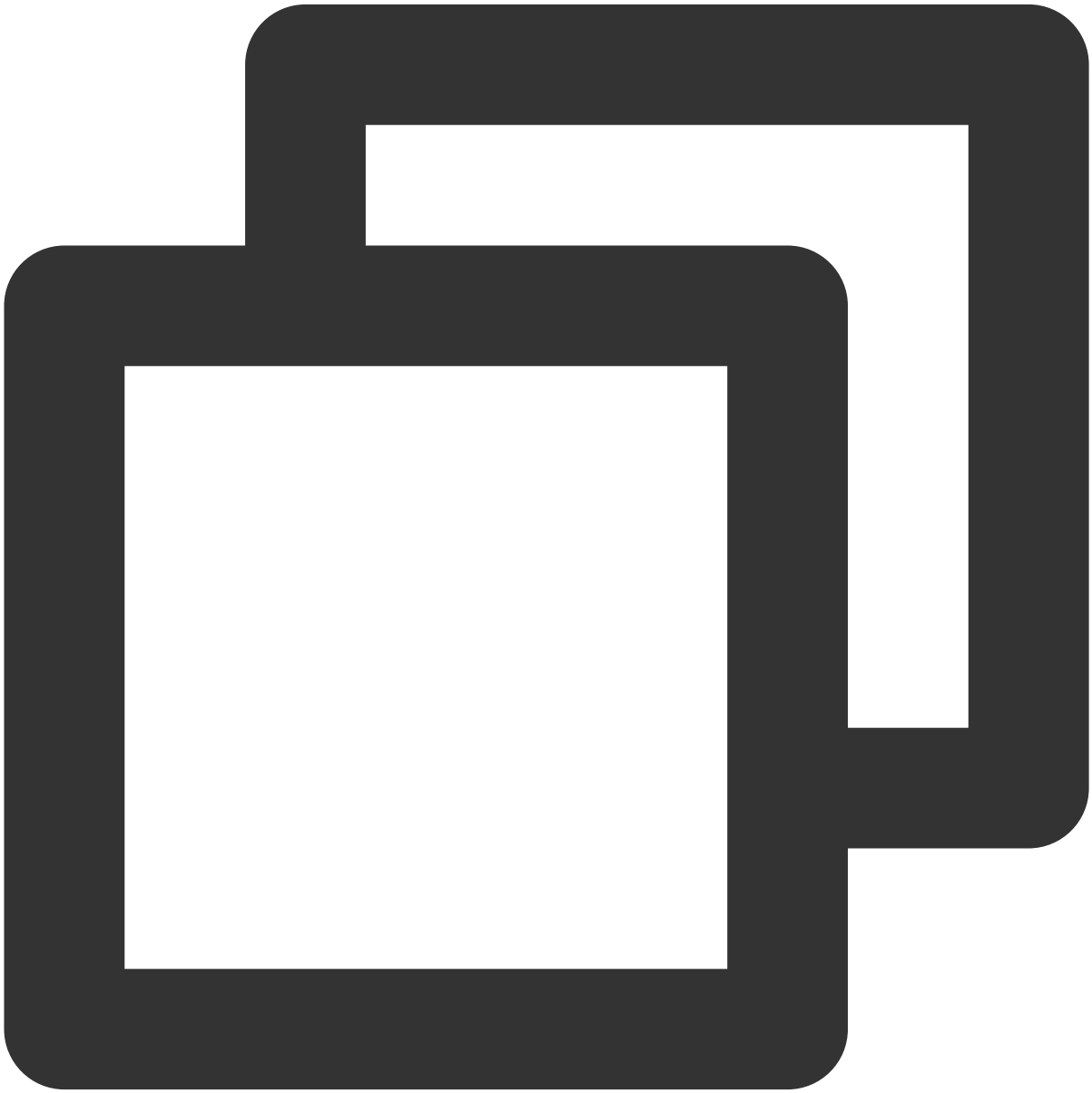

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 09 Aug 2022 16:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <RequestId>NjJmMjA5MjZfZWM0YTYyNjRfN2U3ZF8yNzk1</RequestId>
    <WorkflowExecution>
```

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```
        <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
        <Name>workflow-1</Name>
        <RunId>i166ee19017b011eda8a5525400c540df</RunId>
        <CreateTime>2022-08-09T14:54:17+08:00</CreateTime>
        <Object>wk-test/game.mp4</Object>
        <State>Success</State>
        <Topology>
            <Dependencies>
                <Start>Transcode_1581665960537</Start>
                <Snapshot_1581665960536>End</Snapshot_1581665960536>
                <Transcode_1581665960537>Snapshot_1581665960536</Transcode_15816659
            </Dependencies>
            <Nodes>
                <Start>
                    <Type>Start</Type>
                    <Input>
                        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
                        <ObjectPrefix>/wk-test</ObjectPrefix>
                        <ExtFilter>
                            <State>On</State>
                            <Video>false</Video>
                            <Audio>false</Audio>
                            <ContentType>false</ContentType>
                            <Custom>true</Custom>
                            <CustomExts>mp4</CustomExts>
                            <AllFile>false</AllFile>
                            <Image>false</Image>
                        </ExtFilter>
                        <PicProcessQueueId>p2911917386e148639319e13c285cc774</PicPr
                    </Input>
                </Start>
                <Snapshot_1581665960536>
                    <Type>Snapshot</Type>
                    <Operation>
                        <TemplateId>t07740e32081b44ad7a0aea03adcffd54a</TemplateId>
                        <Output>
                            <Region>ap-chongqing</Region>
                            <Bucket>test-1234567890</Bucket>
                            <Object>snapshot-${number}.jpg</Object>
                        </Output>
                    </Operation>
                </Snapshot_1581665960536>
                <Transcode_1581665960537>
                    <Type>Transcode</Type>
                    <Operation>
                        <TemplateId>t01e57db1c2d154d2fb57aa5de9313a897</TemplateId>
                        <Output>
```

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```
                        <Region>ap-chongqing</Region>
                        <Bucket>test-1234567890</Bucket>
                        <Object>trans1.mp4</Object>
                    </Output>
                </Operation>
            </Transcode_1581665960537>
        </Nodes>
    </Topology>
    <Tasks>
        <Type>Snapshot</Type>
        <JobId>j23c11e1e17b011edaab4ab15ec33d076</JobId>
        <CreateTime>2022-08-09T14:54:40+08:00</CreateTime>
        <Name>Snapshot_1581665960536</Name>
        <State>Success</State>
        <StartTime>2022-08-09T14:54:40+08:00</StartTime>
        <EndTime>2022-08-09T14:54:42+08:00</EndTime>
        <Code>Success</Code>
        <Message></Message>
    </Tasks>
    <Tasks>
        <Type>Transcode</Type>
        <JobId>j168668b217b011ed8efb27bb229e2d11</JobId>
        <CreateTime>2022-08-09T14:54:18+08:00</CreateTime>
        <Name>Transcode_1581665960537</Name>
        <State>Success</State>
        <StartTime>2022-08-09T14:54:18+08:00</StartTime>
        <EndTime>2022-08-09T14:54:39+08:00</EndTime>
        <Code>Success</Code>
        <Message>success</Message>
    </Tasks>
</WorkflowExecution>
```

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Getting Workflow Instance List

Last updated：2024-06-12 15:31:54

Feature Description

This API is used to get the list of workflow instances.

Request

Sample request

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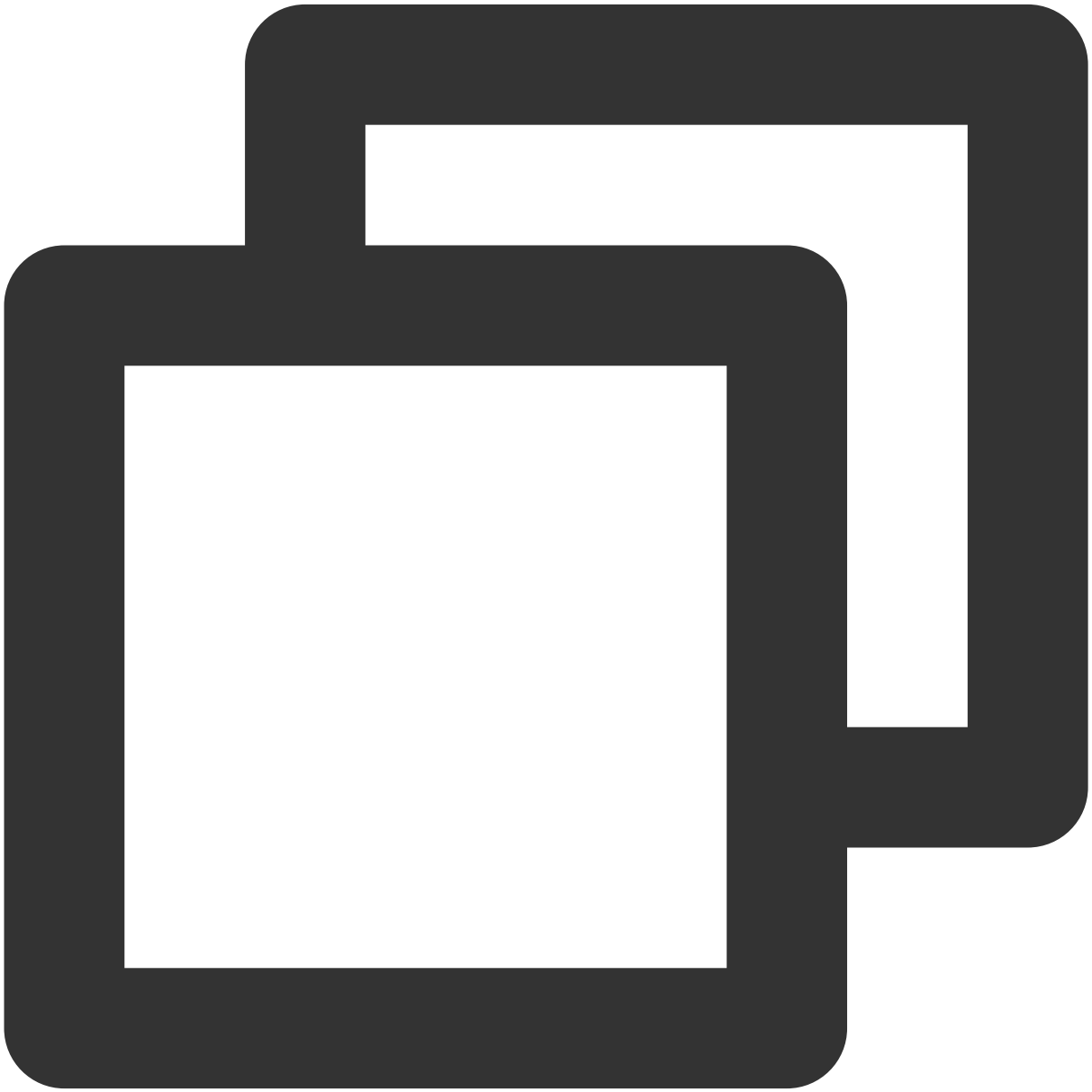

```
GET /workflowexecution HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

Parameter (Keyword)	Description	Type	Required
workflowId	Workflow ID	String	Yes
name	Filename	String	No
orderByTime	`Desc` (default) or `Asc`	String	No
size	Maximum number of jobs that can be pulled. Default value: `10` ; maximum value: `100` .	String	No
states	Workflow instance status. If you enter multiple statuses, separate them by comma. Valid values: `All` , `Success` , `Failed` , `Running` , `Cancel` . Default value: `All` .	String	No
startCreationTime	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`	String	No
endCreationTime	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`	String	No
nextToken	Context token for pagination	String	No
jobId	Batch data processing job ID, which is used to scan the workflow instance executed accordingly.	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

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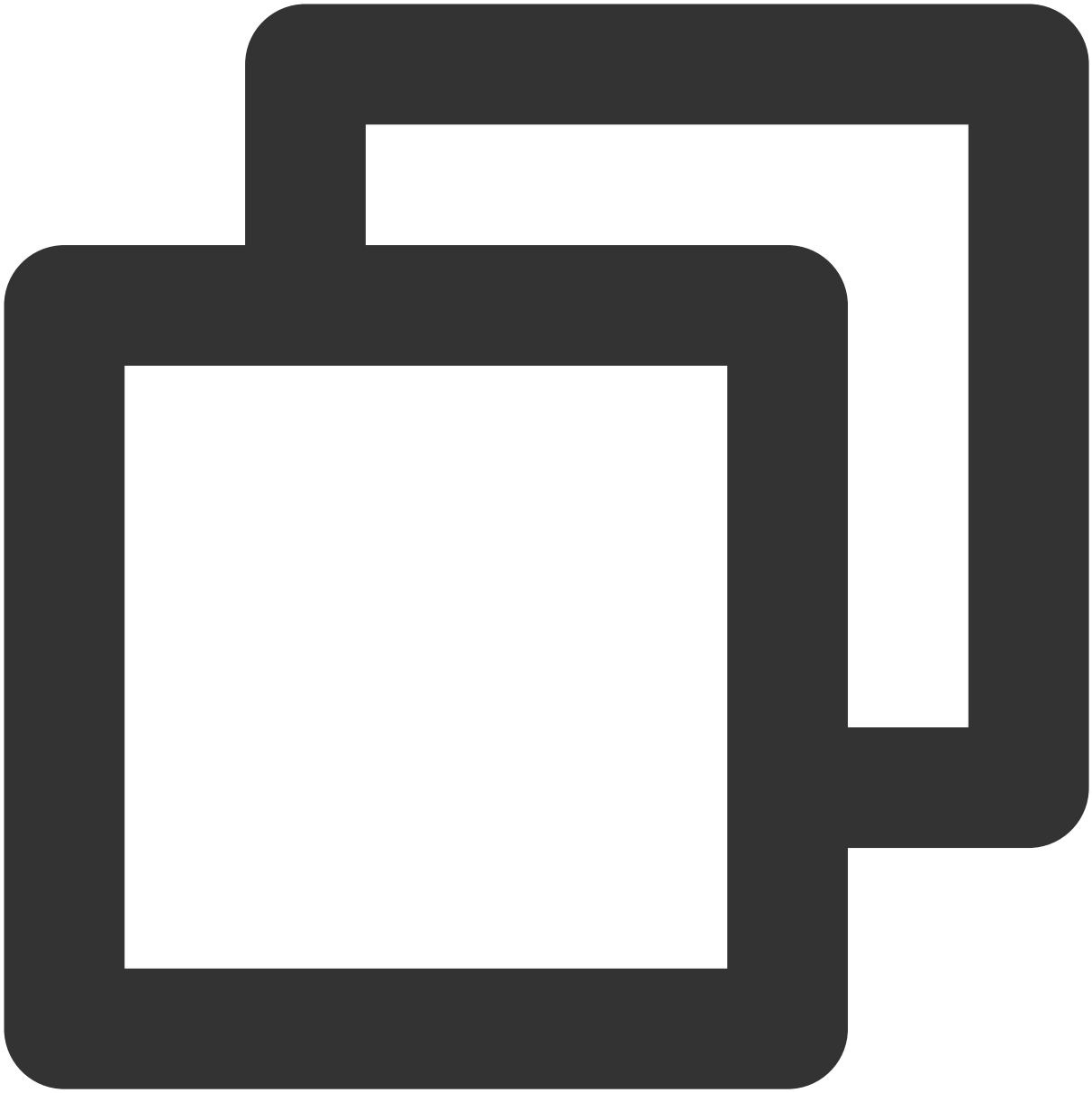
Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <RequestId>NjJmMjEyMmFfZWM0YTYyNjRfN2U2NV8yNmI0</RequestId>
    <WorkflowExecutionList>
        <RunId>i166ee19017b011eda8a5525400c540df</RunId>
        <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
        <Object>wk-test/game.mp4</Object>
        <CreateTime>2022-08-09T14:54:17+08:00</CreateTime>
        <State>Success</State>
```

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```
    </WorkflowExecutionList>
    <WorkflowExecutionList>
        <RunId>i769bd26517af11ed917f525400a3c59f</RunId>
        <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
        <Object>wk-test/game.mp4</Object>
        <CreateTime>2022-08-09T14:49:49+08:00</CreateTime>
        <State>Success</State>
    </WorkflowExecutionList>
    <NextToken>115716</NextToken>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
WorkflowExecutionList	Response	Workflow instance details	Container
RequestId	Response	Request ID	String
NextToken	Response	Context token for pagination	String

`WorkflowExecutionList` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.WorkflowExecutionList	Workflow instance ID	String
WorkflowId	Response.WorkflowExecutionList	Workflow ID	String
State	Response.WorkflowExecutionList	Workflow instance status	String
CreateTime	Response.WorkflowExecutionList	Creation time	String
Object	Response.WorkflowExecutionList	COS object address	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

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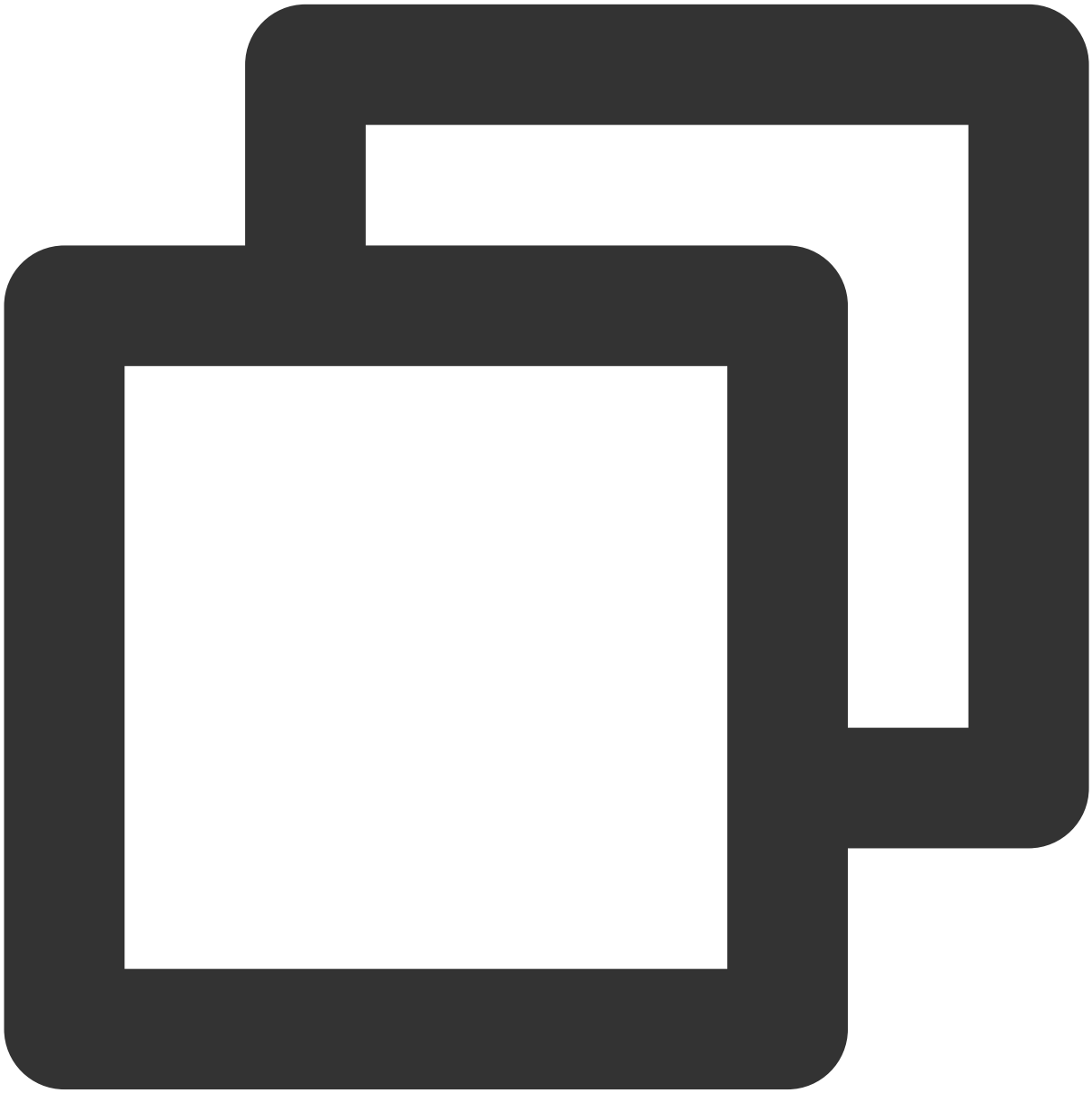
Request



```
GET /workflowexecution?workflowId=web6ac56c1ef54dbfa44d7f4103203be9 HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response

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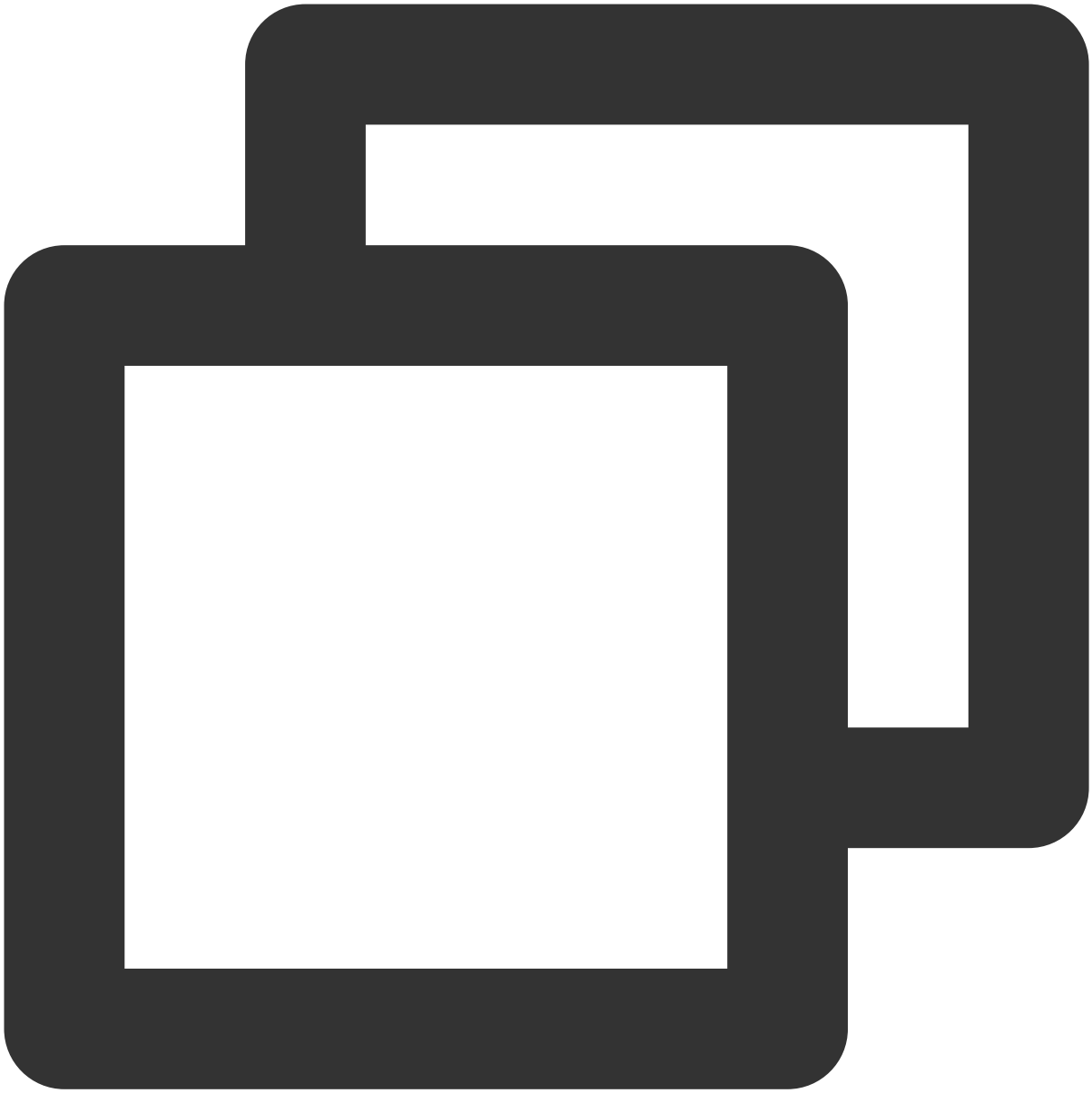

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 09 Aug 2022 16:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjJmMjEyMmFfZWM0YTYyNjRfN2U2NV8yNmI0

<Response>
    <RequestId>NjJmMjEyMmFfZWM0YTYyNjRfN2U2NV8yNmI0</RequestId>
    <WorkflowExecutionList>
```

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```
        <RunId>i166ee19017b011eda8a5525400c540df</RunId>
        <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
        <Object>wk-test/game.mp4</Object>
        <CreateTime>2022-08-09T14:54:17+08:00</CreateTime>
        <State>Success</State>
    </WorkflowExecutionList>
    <WorkflowExecutionList>
        <RunId>i769bd26517af11ed917f525400a3c59f</RunId>
        <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
        <Object>wk-test/game.mp4</Object>
        <CreateTime>2022-08-09T14:49:49+08:00</CreateTime>
        <State>Success</State>
    </WorkflowExecutionList>
    <NextToken>115716</NextToken>
</Response>
```

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Job APIs
Media Processing
Canceling Media Processing Job
CancelMediaJob

Last updated：2024-06-12 15:36:13

Feature Description

This API is used to cancel a job. Only pending jobs can be canceled.

Request

Sample request

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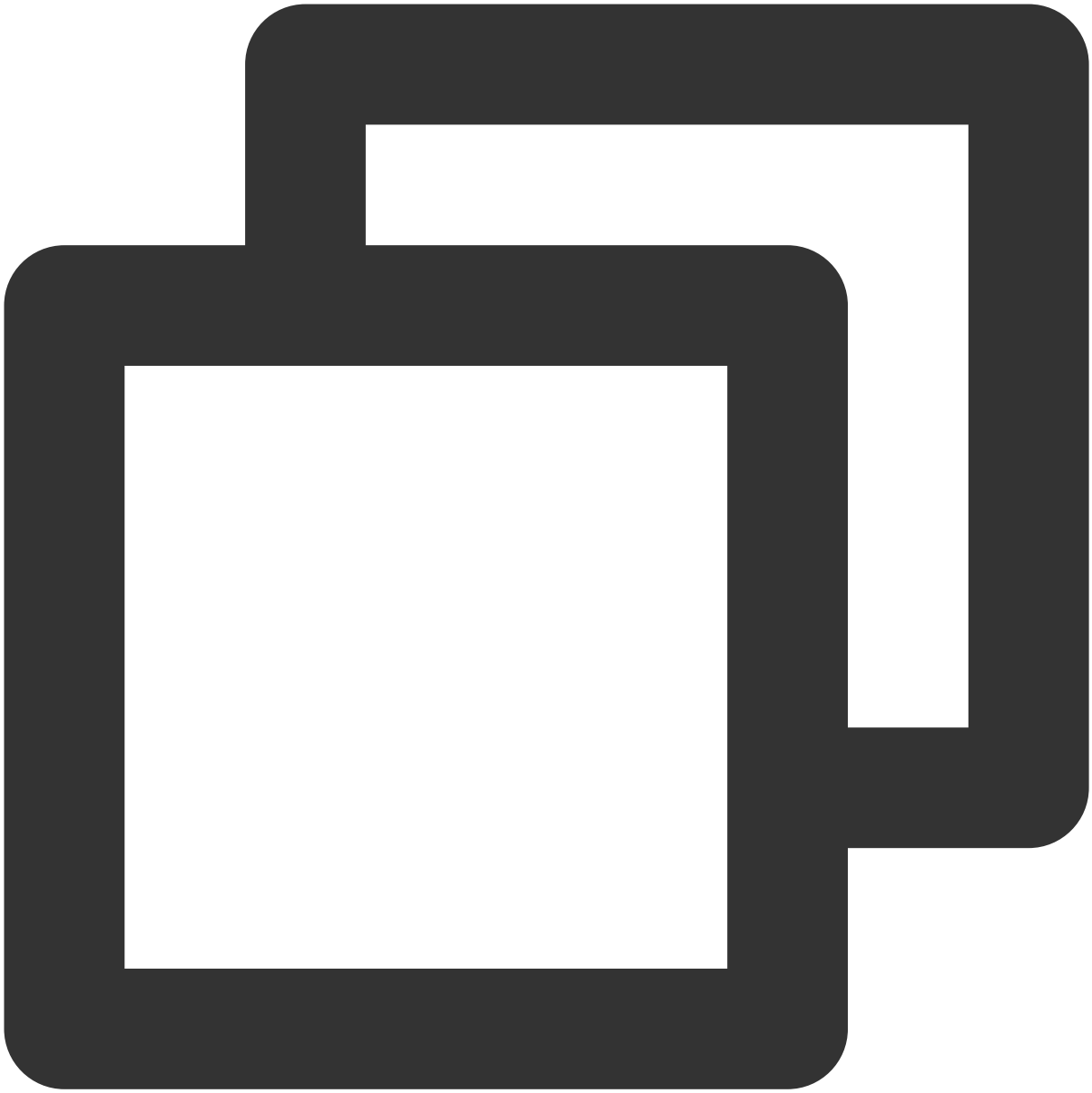

```
PUT /jobs/<jobId>?cancel HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

This request has no response body.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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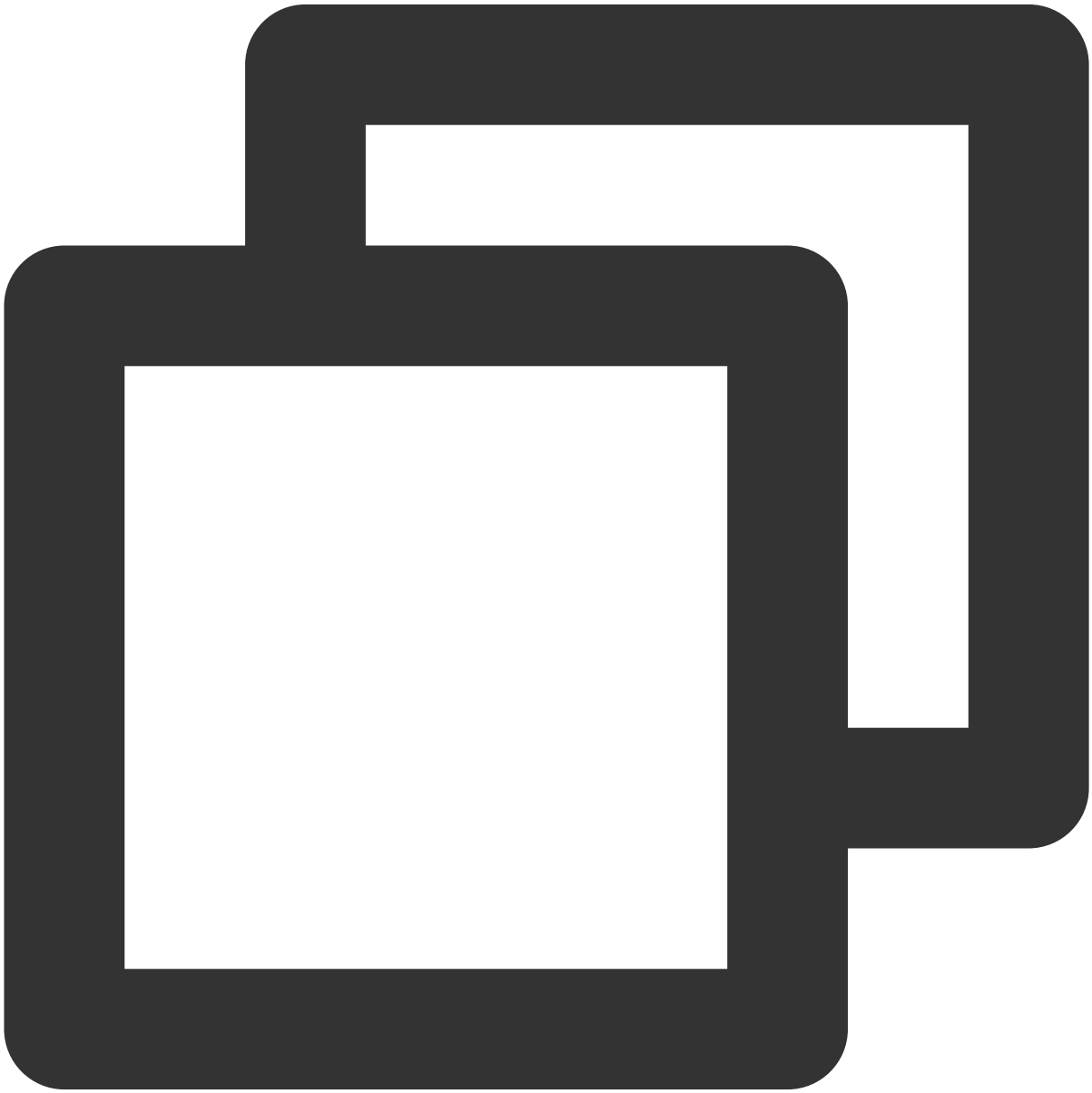

```
PUT /jobs/jb57da17e29c111eda218713081fe2b05?cancel HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response

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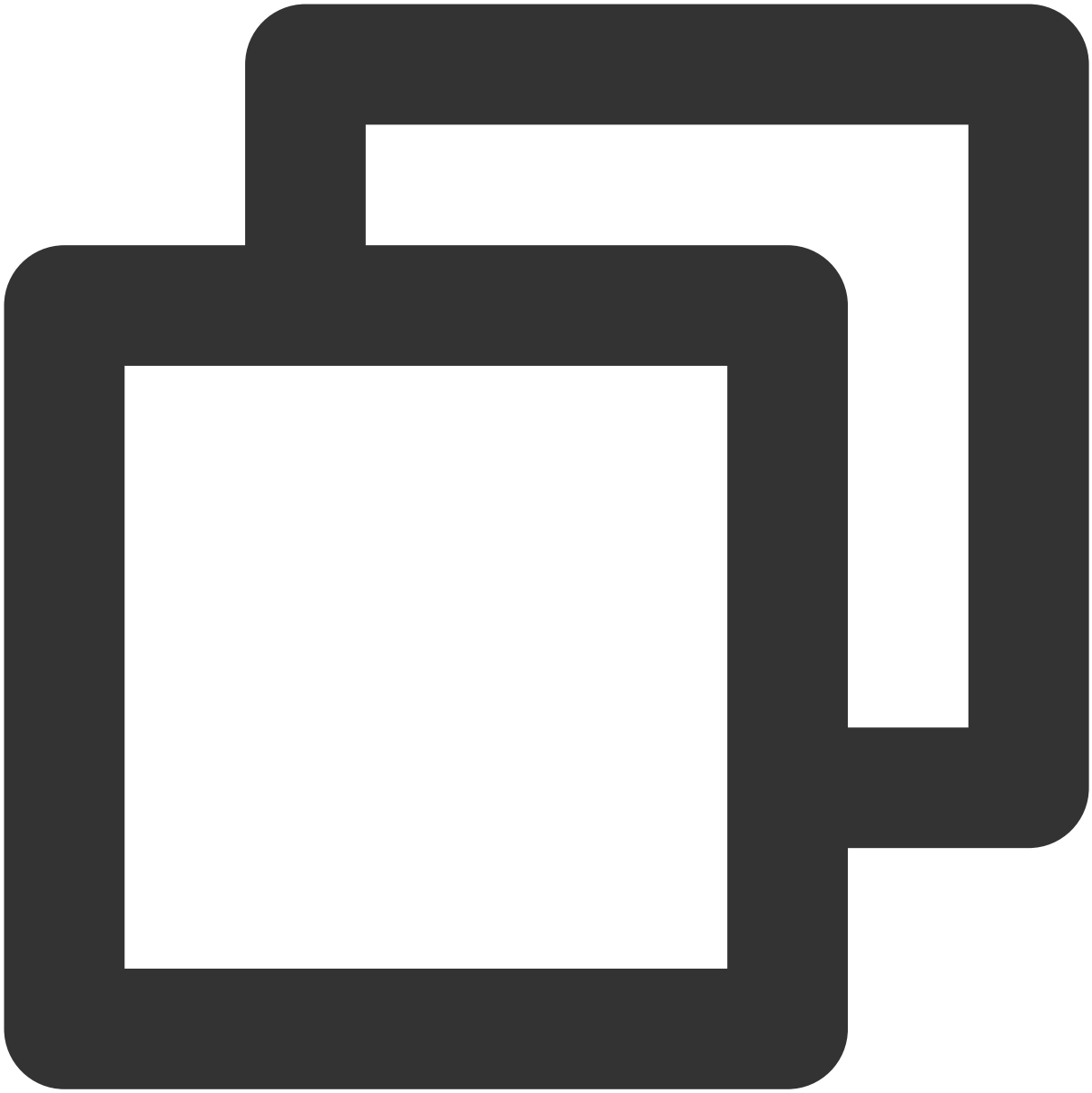

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjY=
```

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Querying Media Processing Job DescribeMediaJob

Last updated：2024-06-12 15:36:13

Feature Description

This API is used to query a specified job.

Request

Sample request

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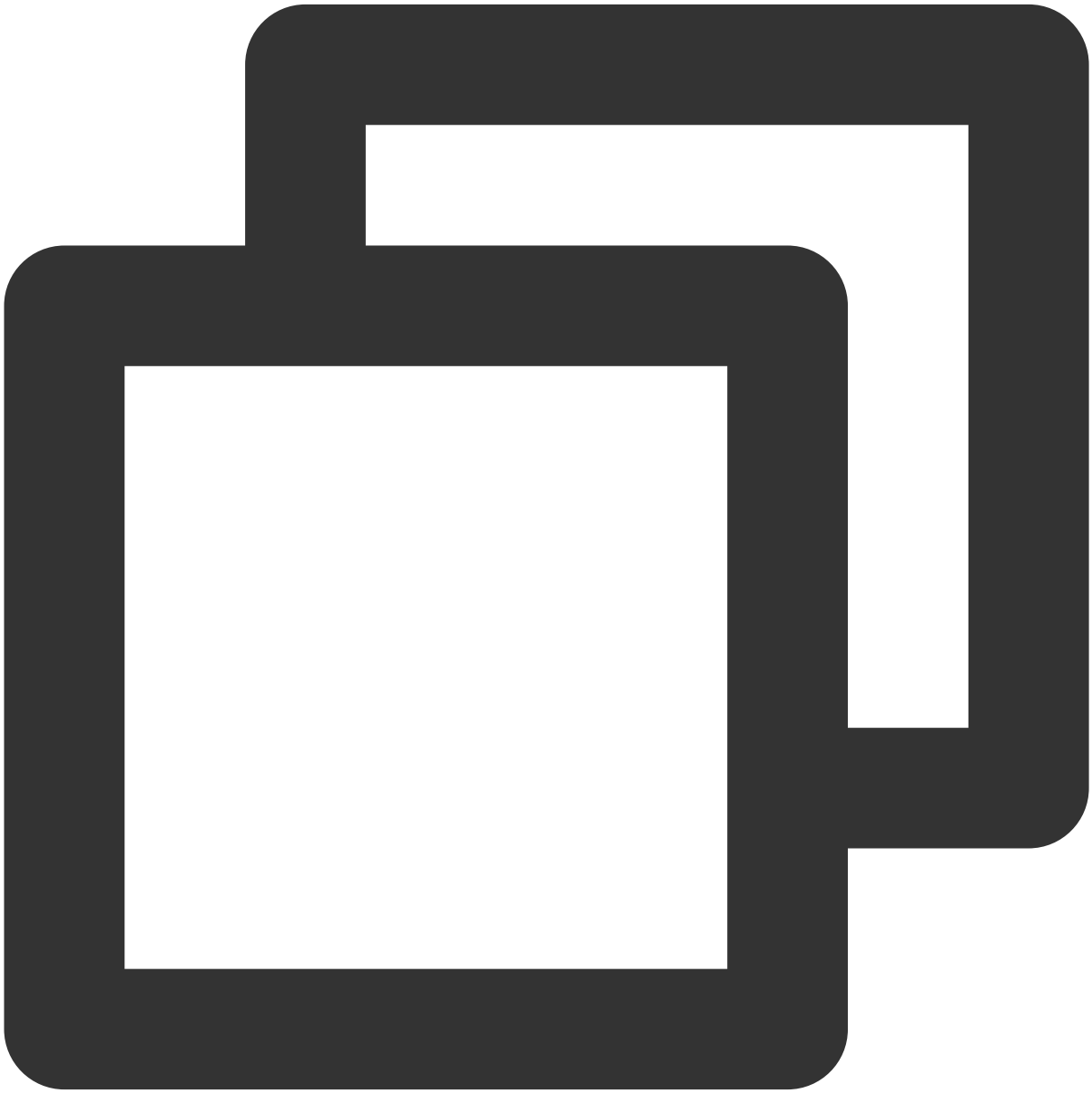

```
GET /jobs/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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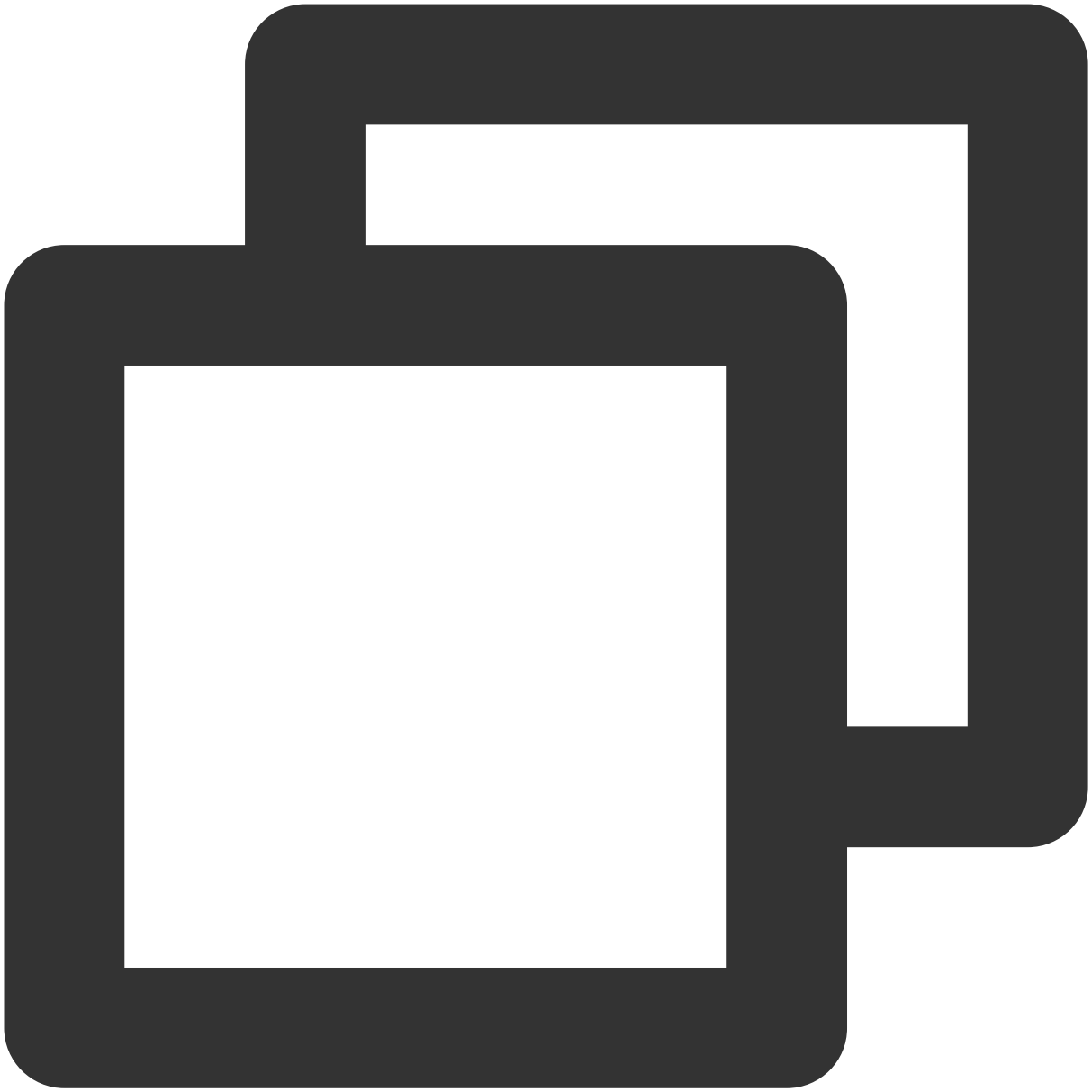

```
<Response>
    <JobsDetail>
    </JobsDetail>
    <NonExistJobIds></NonExistJobIds>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container
NonExistJobIds	Response	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String

The content of `JobsDetail` varies by job type. For more information, see the following documents:

Submitting Video Transcoding Job
Submitting Top Speed Codec Transcoding Job
Submitting Video-to-Animated Image Conversion Job
Submitting Video Frame Capturing Job
Submitting Intelligent Thumbnail Job
Submitting Video Splicing Job
Submitting Voice/Sound Separation Job
Submitting Video Montage Job
Submitting SDR-to-HDR Job
Submitting Video Enhancement Job
Submitting Super Resolution Job
Submitting Remuxing Job
Submitting Digital Watermark Adding Job
Submitting Digital Watermark Extracting Job
Submitting Video Tagging Job
Submitting Media Information Query Job
Submitting Stream Separation Job
Submitting Video Quality Scoring Job
Submitting Text-to-Speech Job
Submitting Audio Noise Cancellation Job

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request 1: Querying an ongoing job

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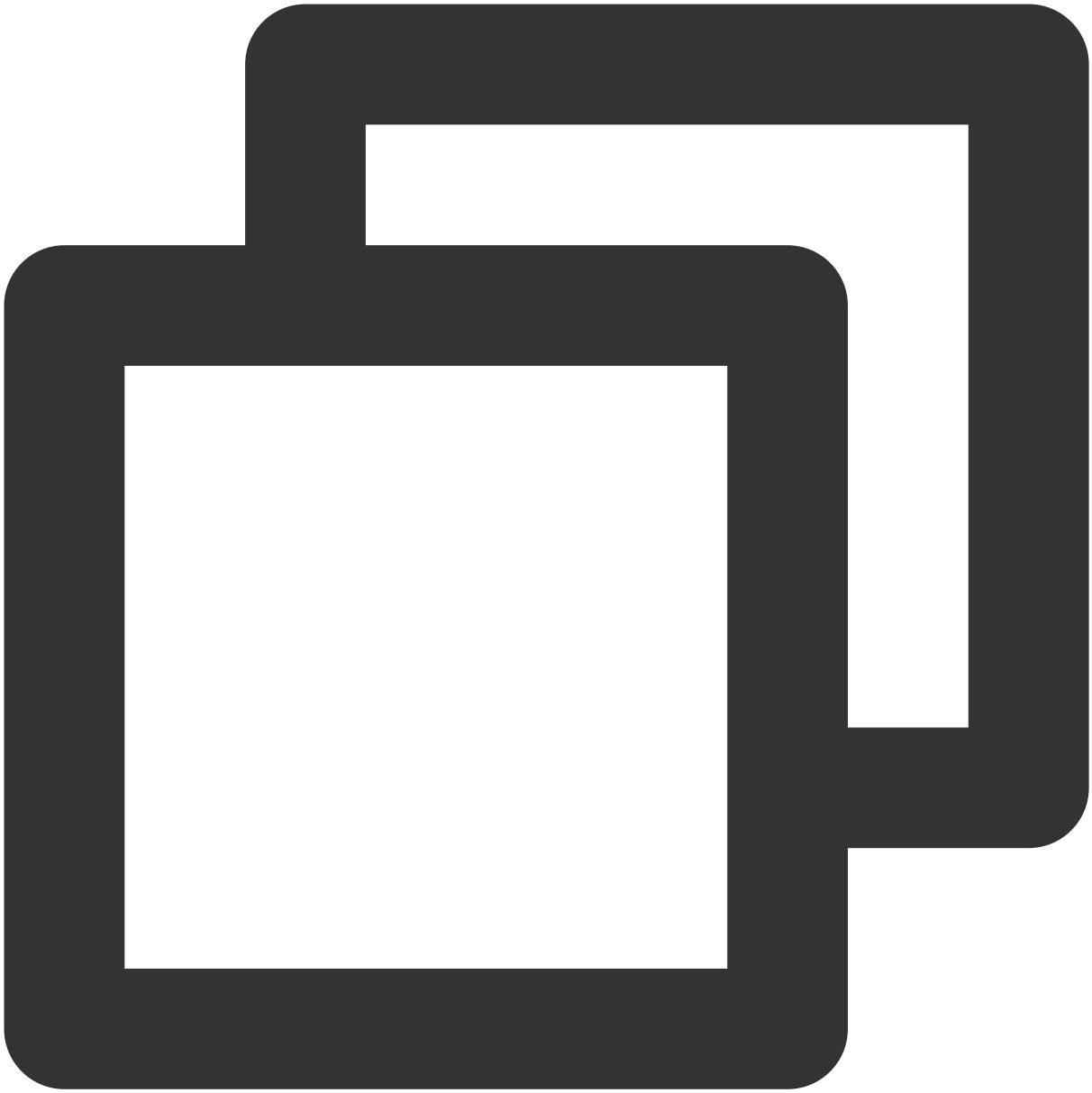

```
GET /jobs/j8d121820f5e411ec926ef19d53ba9c6f HTTP/1.1
Accept: */*
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response

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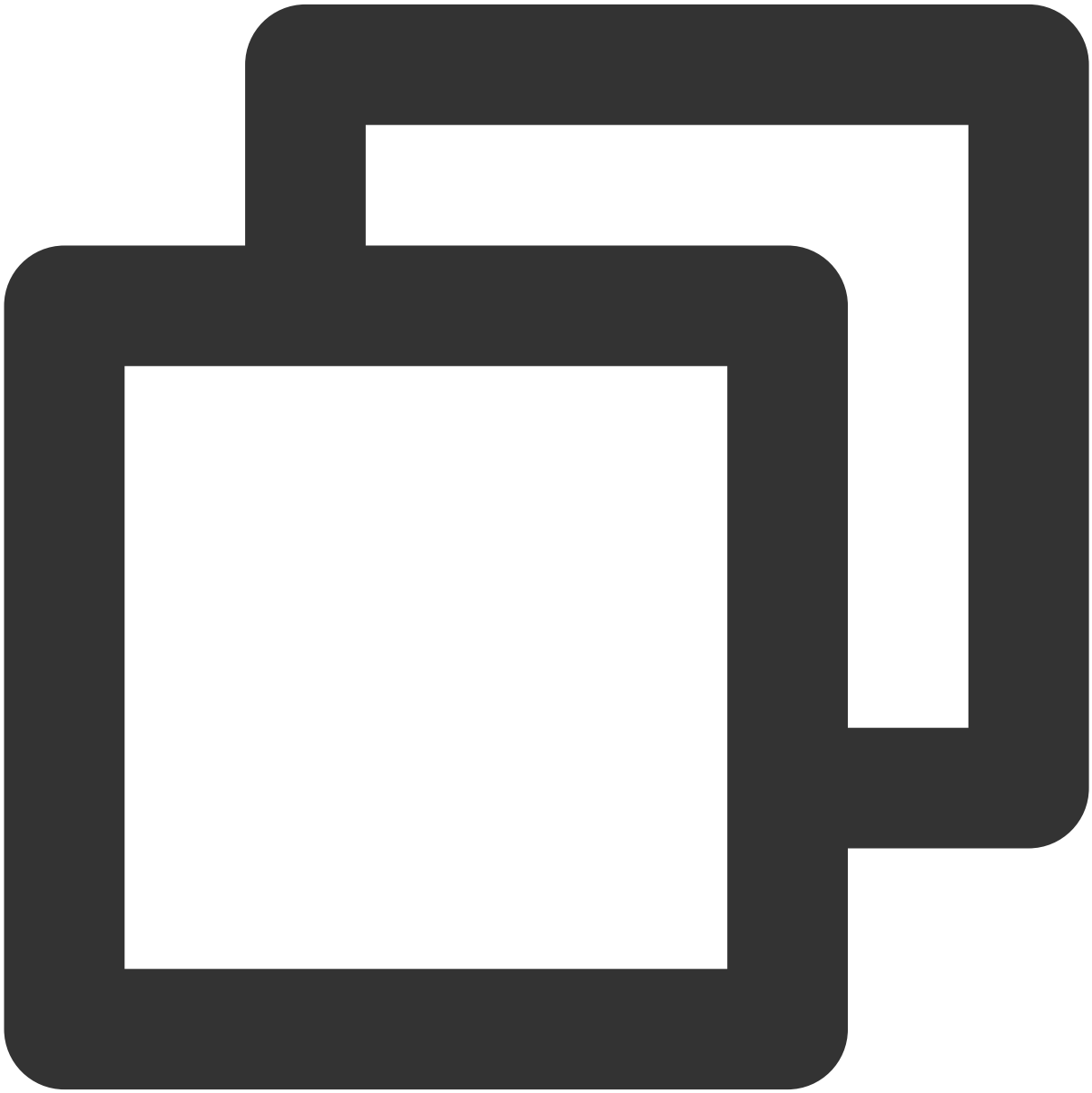

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjc=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        </Message>
        <JobId>j8d121820f5e411ec926ef19d53ba9c6f</JobId>
        <State>Running</State>
        <Progress>30</Progress>
        <CreationTime>2022-06-27T15:23:12+0800</CreationTime>
        <StartTime>2022-06-27T15:23:13+0800</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Tag>Transcode</Tag>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe22</WatermarkTempl
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe23</WatermarkTempl
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe24</WatermarkTempl
            <RemoveWatermark>
                <Dx>150</Dx>
                <Dy>150</Dy>
                <Width>75</Width>
                <Height>75</Height>
            </RemoveWatermark>
            <DigitalWatermark>
                <Type>Text</Type>
                <Message>123456789ab</Message>
                <Version>V1</Version>
                <IgnoreError>false</IgnoreError>
                <State>Running</State>
            </DigitalWatermark>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/out.mp4</Object>
            </Output>
            <UserData>This is my data.</UserData>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
</Response>
```

Request 2: Querying a successfully completed job

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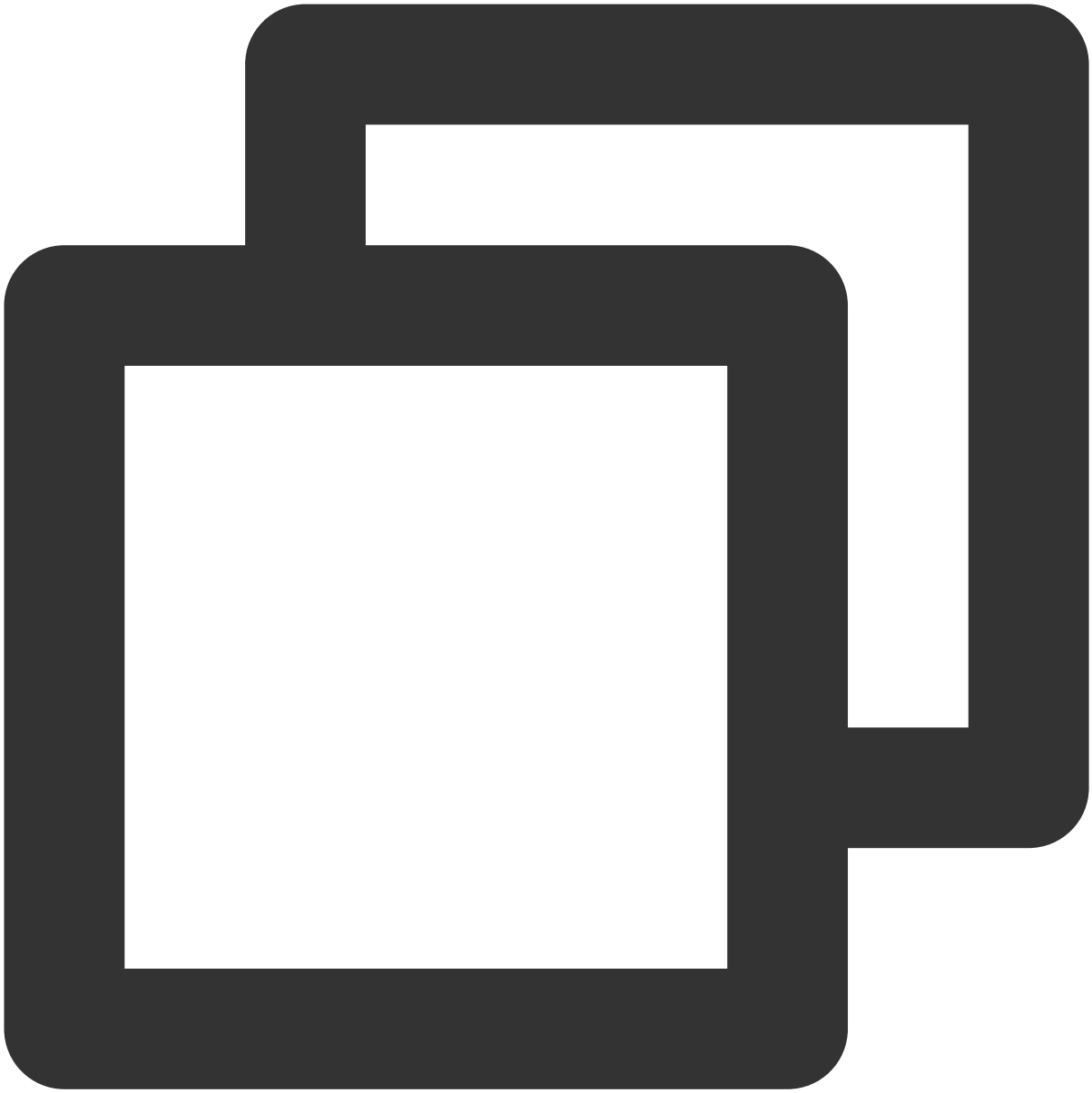

```
GET /jobs/j9c0a4726f6ac11ec96aaa9b64ab18d00 HTTP/1.1
Accept: */*
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
```

Response

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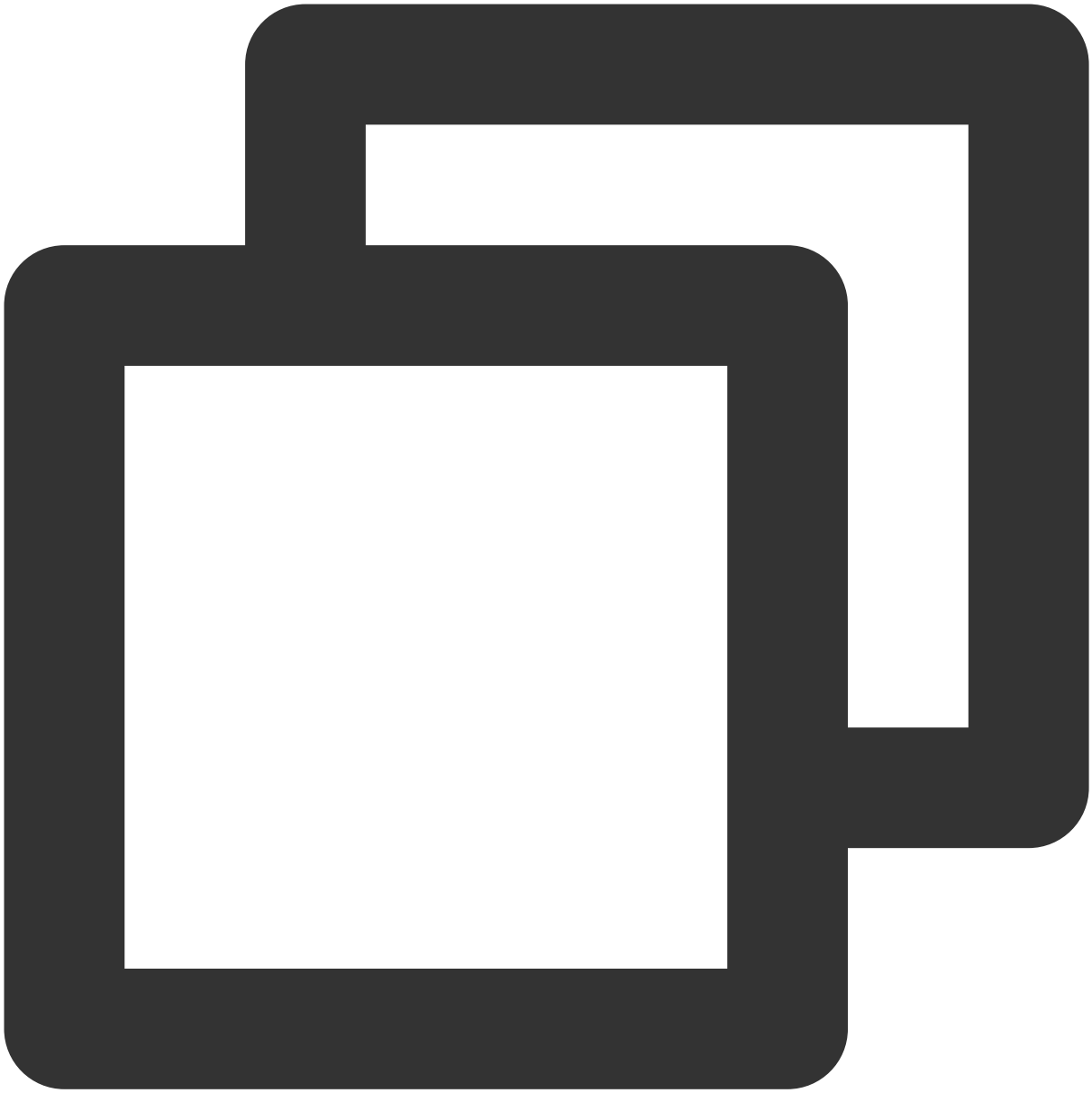

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:25:22 GMT
Server: tencent-ci
x-ci-request-id: NjMxMDJhYTNfMThhYTk0MGFfYmU1OV8zZjY=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        </Message>
        <JobId>j9c0a4726f6ac11ec96aaa9b64ab18d00</JobId>
        <State>Success</State>
        <Progress>100</Progress>
        <CreationTime>2022-06-27T15:23:12+0800</CreationTime>
        <StartTime>2022-06-27T15:23:13+0800</StartTime>
        <EndTime>2022-06-27T15:24:33+0800</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Tag>Transcode</Tag>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe22</WatermarkTempl
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe23</WatermarkTempl
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe24</WatermarkTempl
            <RemoveWatermark>
                <Dx>150</Dx>
                <Dy>150</Dy>
                <Width>75</Width>
                <Height>75</Height>
            </RemoveWatermark>
            <DigitalWatermark>
                <Type>Text</Type>
                <Message>123456789ab</Message>
                <Version>V1</Version>
                <IgnoreError>false</IgnoreError>
                <State>Running</State>
            </DigitalWatermark>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/out.mp4</Object>
            </Output>
            <UserData>This is my data.</UserData>
            <JobLevel>0</JobLevel>
            <MediaInfo>
                <Format>
                    <Bitrate>834.736000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
```

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```
                <Size>1424687</Size>
                <StartTime>0.000000</StartTime>
            </Format>
            <Stream>
                <Audio>
                    <Bitrate>104.047000</Bitrate>
                    <Channel>2</Channel>
                    <ChannelLayout>stereo</ChannelLayout>
                    <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                    <CodecName>aac</CodecName>
                    <CodecTag>0x6134706d</CodecTag>
                    <CodecTagString>mp4a</CodecTagString>
                    <CodecTimeBase>1/44100</CodecTimeBase>
                    <Duration>13.653311</Duration>
                    <Index>1</Index>
                    <Language>und</Language>
                    <SampleFmt>fltp</SampleFmt>
                    <SampleRate>44100</SampleRate>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/44100</Timebase>
                </Audio>
                <Subtitle/>
                <Video>
                    <AvgFps>25.000000</AvgFps>
                    <Bitrate>763.774000</Bitrate>
                    <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                    <CodecName>h264</CodecName>
                    <CodecTag>0x31637661</CodecTag>
                    <CodecTagString>avc1</CodecTagString>
                    <CodecTimeBase>1/12800</CodecTimeBase>
                    <ColorPrimaries>bt470bg</ColorPrimaries>
                    <ColorRange>tv</ColorRange>
                    <ColorTransfer>smpte170m</ColorTransfer>
                    <Duration>12.960000</Duration>
                    <Fps>25.000000</Fps>
                    <HasBFrame>0</HasBFrame>
                    <Height>960</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>10</Level>
                    <NumFrames>324</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>High</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12800</Timebase>
```

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```
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Region>ap-chongqing</Region>
                    <ObjectName>output/out.mp4</ObjectName>
                    <Md5Info>
                            <Md5>3df1f845d2ffd20a525a93ec40014d90</Md5>
                            <ObjectName>output/out.mp4</ObjectName>
                    </Md5Info>
                </OutputFile>
            </MediaResult>
        </Operation>
    </JobsDetail>
</Response>
```

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DescribeMediaJobs

Last updated：2024-06-12 15:36:13

Feature Description

The API (`DescribeMediaJobs`) is used to pull jobs that meet specified conditions.

Request

Sample request

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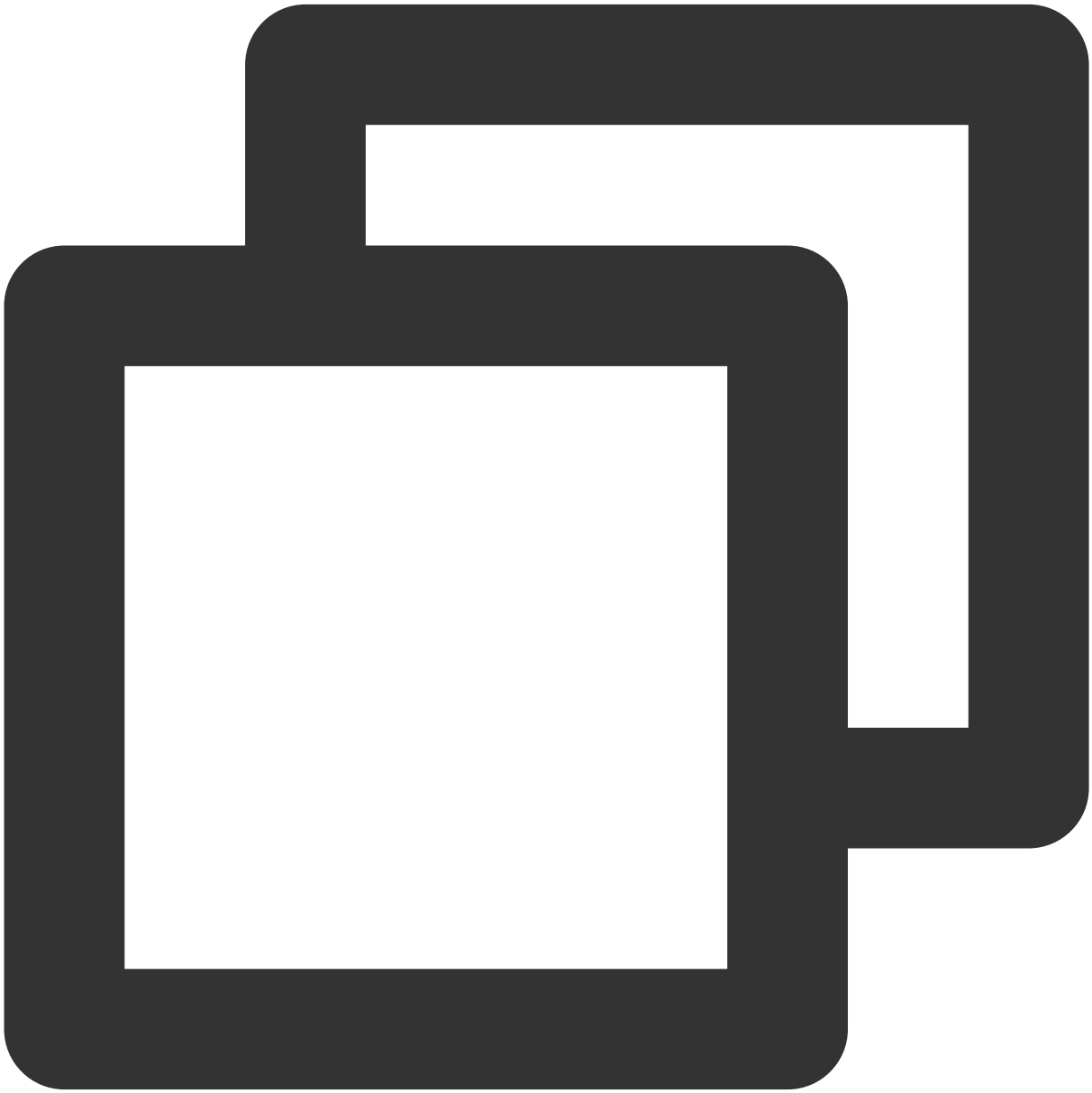

```
GET /jobs?size=&states=&queueId=&startCreationTime=&endCreationTime= HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request parameters

The parameters are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
queueId	None	ID of the queue from which jobs are pulled.	String	Yes
tag	None	Job tag	String	Yes
workflowId	None	ID of the workflow triggering this job	String	No
inventoryTriggerJobId	None	ID of the batch data processing job triggering this job	String	No
inputObject	None	Name of the input file for this job, which currently supports only exact match.	String	No
orderByTime	None	`Desc` (default) or `Asc`	String	No
nextToken	None	Context token for pagination	String	No
size	None	Maximum number of jobs that can be pulled. The default value is 10. The maximum value is 100.	Integer	No
states	None	Status of the jobs to pull. If you enter multiple job statuses, separate them by comma. Valid values: `All` (default), `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String	No
startCreationTime	None	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`, such as `2001-01-01T00:00:00+0800`	String	No
endCreationTime	None	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`, such as `2001-01-01T23:59:59+0800`	String	No

Supported `tag` types are as follows:

Job type	`tag`
Audio/Video transcoding	Transcode
Video-to-animated image conversion	Animation

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Screenshot	Snapshot
Intelligent thumbnail	SmartCover
Audio/Video splicing	Concat
Voice/Sound separation	VoiceSeparate
Video montage	VideoMontage
SDR to HDR	SDRtoHDR
Video enhancement	VideoProcess
Super resolution	SuperResolution
Audio/Video remuxing	Segment
Digital watermark	DigitalWatermark
Digital watermark extraction	ExtractDigitalWatermark
Video tagging	VideoTag
Media information query	MediaInfo
Audio/Video stream separation	StreamExtract
Video quality analysis	QualityEstimate
Text to speech	Tts
Audio noise cancellation	NoiseReduction

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

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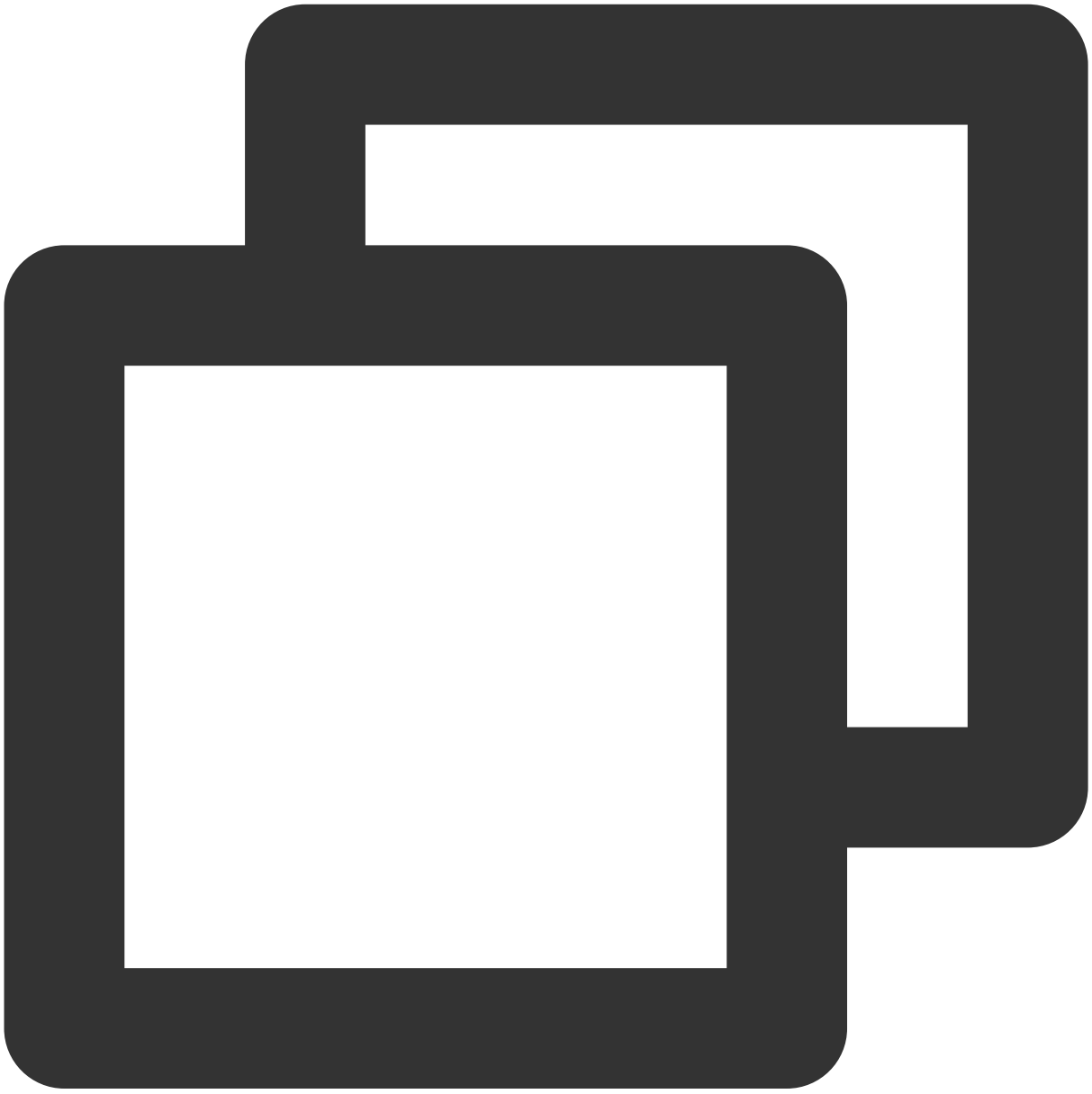
Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <JobsDetail>
        ...
    </JobsDetail>
    <NextToken></NextToken>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container array
NextToken	Response	Context token for pagination	String

The content of `JobsDetail` varies by job type. For more information, see the following documents:

Submitting Video Transcoding Job
Submitting Video-to-Animated Image Conversion Job
Submitting Video Frame Capturing Job
Submitting Intelligent Thumbnail Job
Submitting Video Splicing Job
Submitting Voice/Sound Separation Job
Submitting Video Montage Job
Submitting SDR-to-HDR Job
Submitting Video Enhancement Job
Submitting Super Resolution Job
Submitting Remuxing Job
Submitting Digital Watermark Adding Job
Submitting Digital Watermark Extracting Job
Submitting Video Tagging Job
Submitting Media Information Query Job
Submitting Stream Separation Job
Submitting Video Quality Scoring Job
Submitting Text-to-Speech Job
Submitting Audio Noise Cancellation Job

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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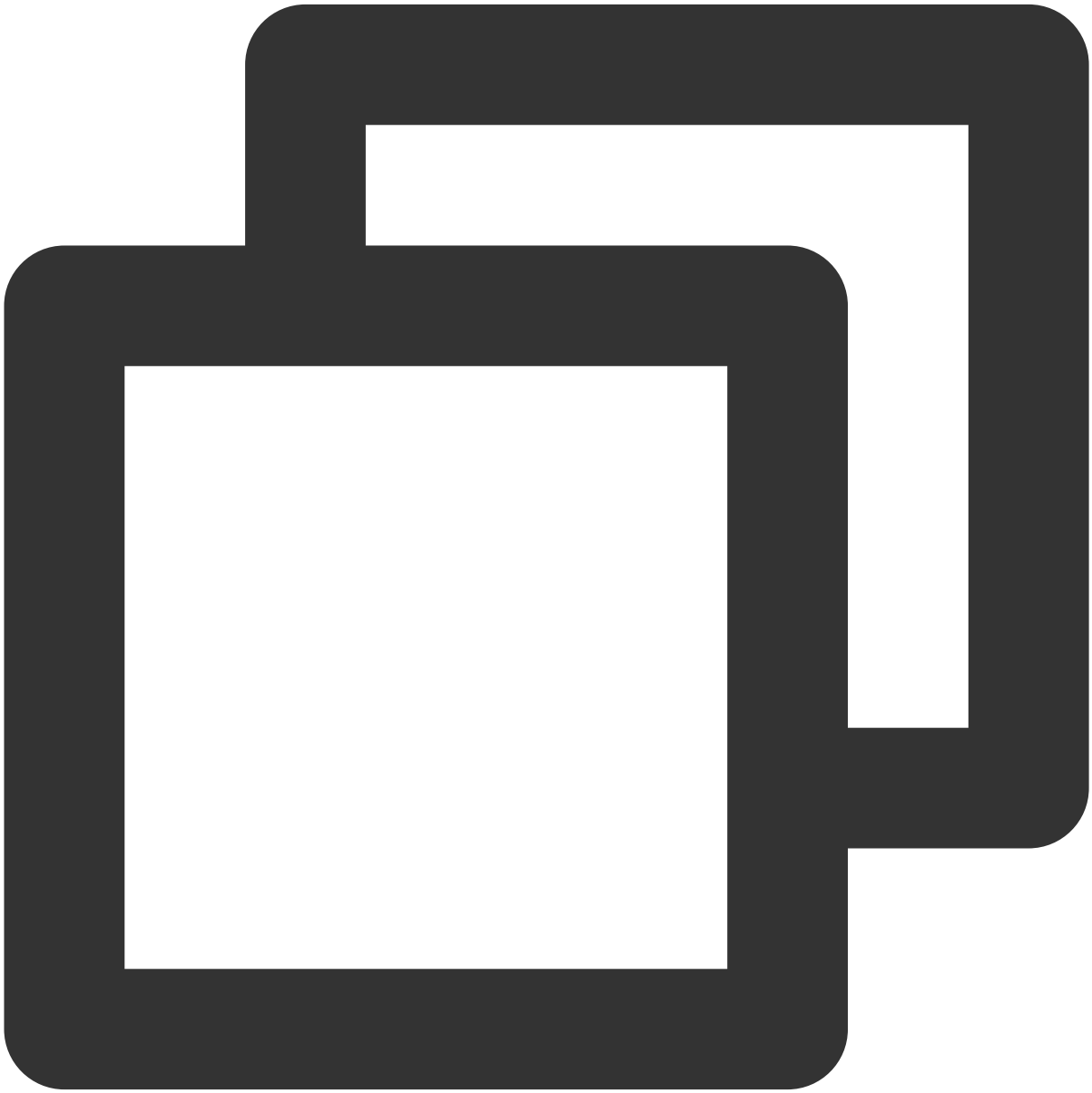

```
GET /jobs?queueId=p2242ab62c7c94486915508540933a2c6&tag=Transcode HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0**********&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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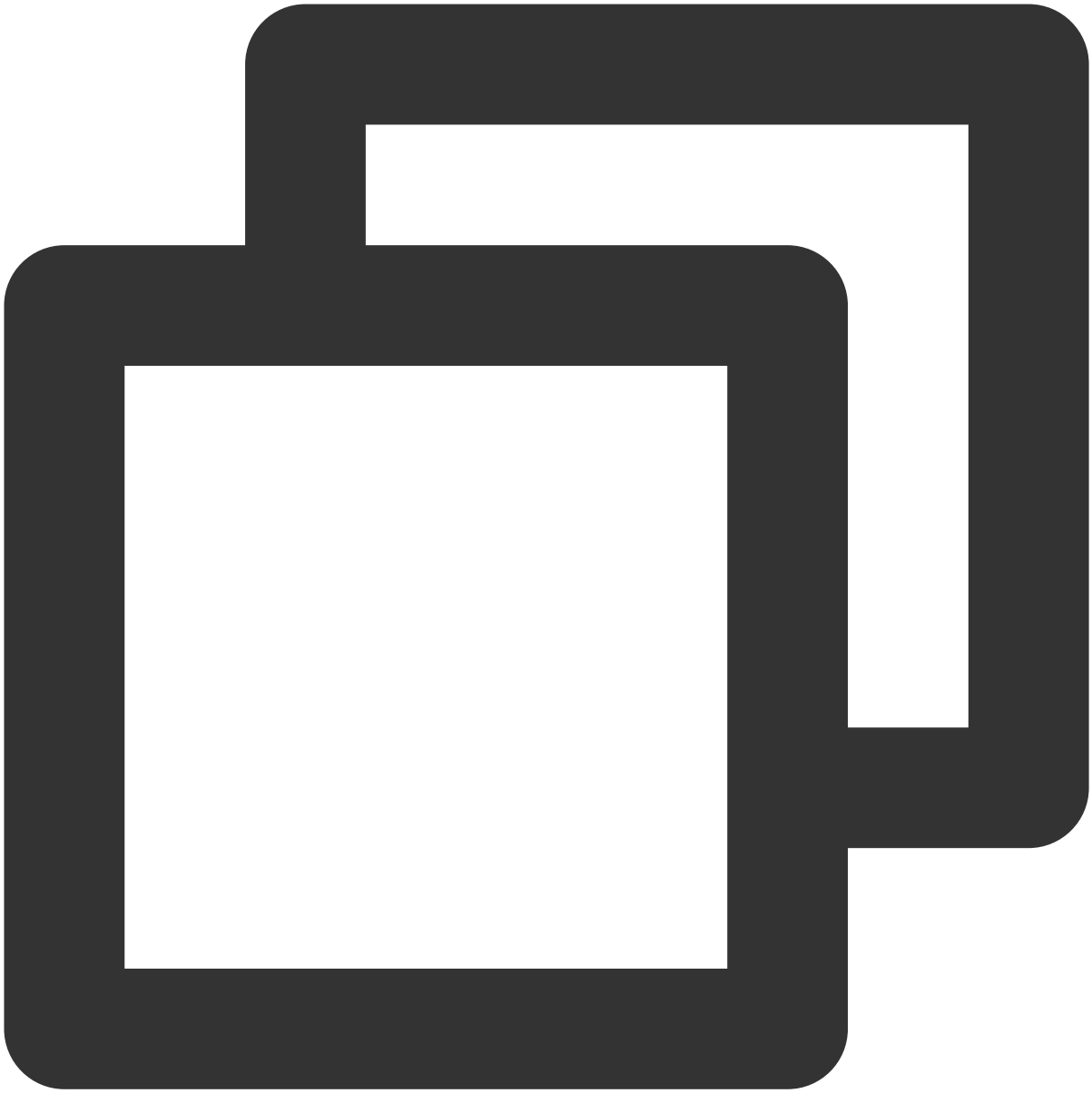

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        </Message>
        <JobId>j8d121820f5e411ec926ef19d53ba9c6f</JobId>
        <State>Running</State>
        <Progress>30</Progress>
        <CreationTime>2022-06-27T15:23:12+0800</CreationTime>
        <StartTime>2022-06-27T15:23:13+0800</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Tag>Transcode</Tag>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe22</WatermarkTempl
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe23</WatermarkTempl
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe24</WatermarkTempl
            <RemoveWatermark>
                <Dx>150</Dx>
                <Dy>150</Dy>
                <Width>75</Width>
                <Height>75</Height>
            </RemoveWatermark>
            <DigitalWatermark>
                <Type>Text</Type>
                <Message>123456789ab</Message>
                <Version>V1</Version>
                <IgnoreError>false</IgnoreError>
                <State>Running</State>
            </DigitalWatermark>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/out.mp4</Object>
            </Output>
            <UserData>This is my data.</UserData>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
    <JobsDetail>
        <Code>Success</Code>
        </Message>
        <JobId>j9c0a4726f6ac11ec96aaa9b64ab18d00</JobId>
        <State>Success</State>
        <Progress>100</Progress>
```

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```
        <CreationTime>2022-06-27T15:23:12+0800</CreationTime>
        <StartTime>2022-06-27T15:23:13+0800</StartTime>
        <EndTime>2022-06-27T15:24:33+0800</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Tag>Transcode</Tag>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe22</WatermarkTempl
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe23</WatermarkTempl
            <WatermarkTemplateId>t1318c5f428d474afba1797f84091cbe24</WatermarkTempl
            <RemoveWatermark>
                <Dx>150</Dx>
                <Dy>150</Dy>
                <Width>75</Width>
                <Height>75</Height>
            </RemoveWatermark>
            <DigitalWatermark>
                <Type>Text</Type>
                <Message>123456789ab</Message>
                <Version>V1</Version>
                <IgnoreError>false</IgnoreError>
                <State>Running</State>
            </DigitalWatermark>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/out.mp4</Object>
            </Output>
            <UserData>This is my data.</UserData>
            <JobLevel>0</JobLevel>
            <MediaInfo>
                <Format>
                    <Bitrate>834.736000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>1424687</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
```

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```
                <Audio>
                    <Bitrate>104.047000</Bitrate>
                    <Channel>2</Channel>
                    <ChannelLayout>stereo</ChannelLayout>
                    <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                    <CodecName>aac</CodecName>
                    <CodecTag>0x6134706d</CodecTag>
                    <CodecTagString>mp4a</CodecTagString>
                    <CodecTimeBase>1/44100</CodecTimeBase>
                    <Duration>13.653311</Duration>
                    <Index>1</Index>
                    <Language>und</Language>
                    <SampleFmt>fltp</SampleFmt>
                    <SampleRate>44100</SampleRate>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/44100</Timebase>
                </Audio>
                <Subtitle/>
                <Video>
                    <AvgFps>25.000000</AvgFps>
                    <Bitrate>763.774000</Bitrate>
                    <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                    <CodecName>h264</CodecName>
                    <CodecTag>0x31637661</CodecTag>
                    <CodecTagString>avc1</CodecTagString>
                    <CodecTimeBase>1/12800</CodecTimeBase>
                    <ColorPrimaries>bt470bg</ColorPrimaries>
                    <ColorRange>tv</ColorRange>
                    <ColorTransfer>smpte170m</ColorTransfer>
                    <Duration>12.960000</Duration>
                    <Fps>25.000000</Fps>
                    <HasBFrame>0</HasBFrame>
                    <Height>960</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>10</Level>
                    <NumFrames>324</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>High</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12800</Timebase>
                    <Width>544</Width>
                </Video>
            </Stream>
        </MediaInfo>
```

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```
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Region>ap-chongqing</Region>
                    <ObjectName>output/out.mp4</ObjectName>
                    <Md5Info>
                            <Md5>3df1f845d2ffd20a525a93ec40014d90</Md5>
                            <ObjectName>output/out.mp4</ObjectName>
                    </Md5Info>
                </OutputFile>
            </MediaResult>
        </Operation>
    </JobsDetail>
    <NextToken>225508</NextToken>
</Response>
```

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Media Processing Job Callback
Video-to-Animated Image Conversion

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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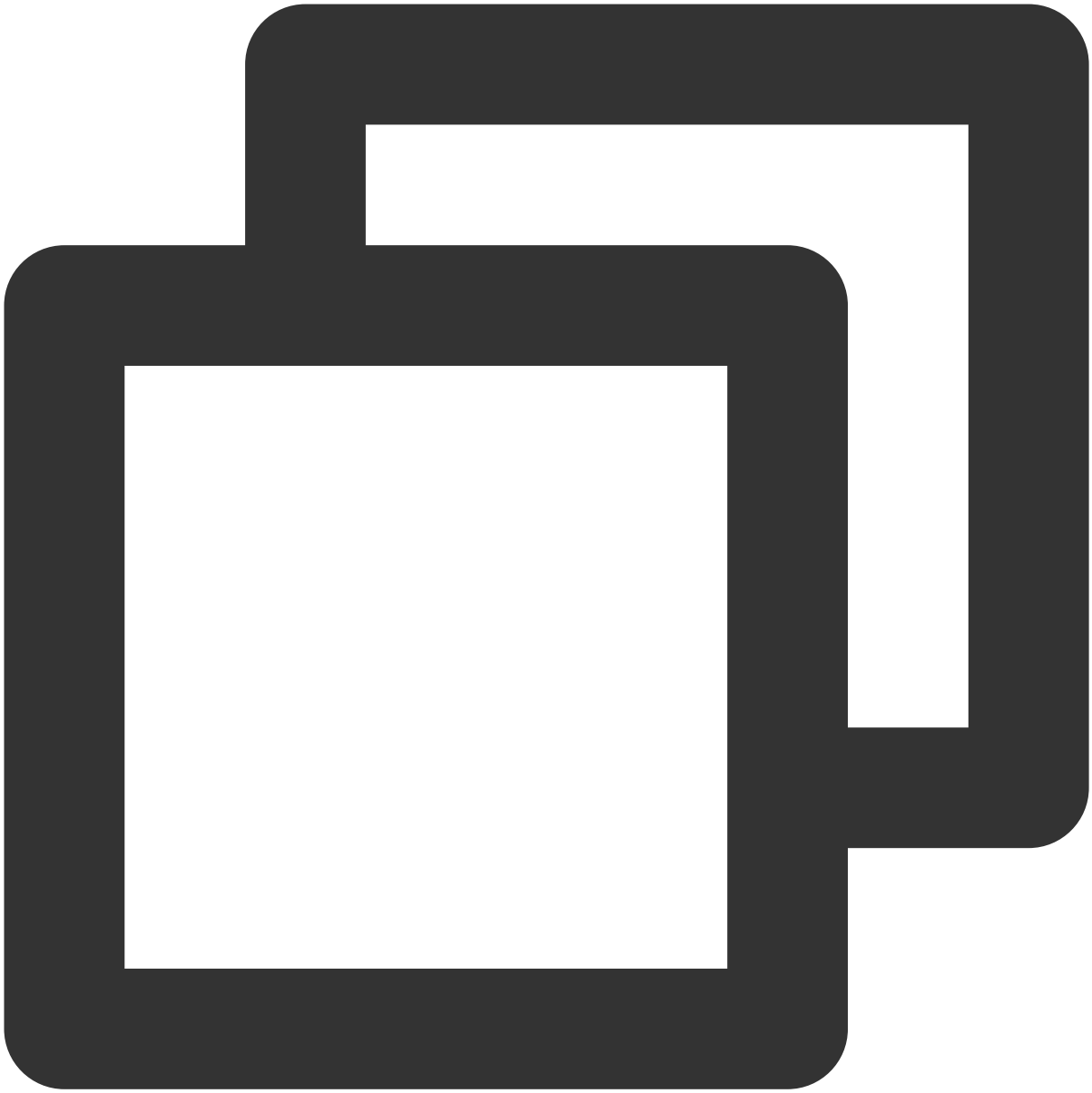

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:29:48+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j682b9662f84611ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>97624.424000</Bitrate>
                    <Duration>0.870000</Duration>
                    <FormatLongName>CompuServe Graphics Interchange Format (GIF)</F
                    <FormatName>gif</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>1</NumStream>
                    <Size>10616656</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video>
                        <AvgFps>14.666667</AvgFps>
                        <CodecLongName>CompuServe GIF (Graphics Interchange Format)
                        <CodecName>gif</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/100</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Duration>0.870000</Duration>
                        <Fps>15.083333</Fps>
                        <HasBFrame>0</HasBFrame>
                        <Height>2258</Height>
                        <Index>0</Index>
                        <Level>-99</Level>
                        <NumFrames>7</NumFrames>
                        <PixFormat>bgra</PixFormat>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/100</Timebase>
                        <Width>1280</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
```

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```
                        <Md5>3df1f845d2ffd20a525a93ec40014d90</Md5>
                        <ObjectName>output/animation.gif</ObjectName>
                    </Md5Info>
                    <ObjectName>output/animation.gif</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/animation.gif</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
            <TemplateName>template_name1512456</TemplateName>
            <UserData>This is my Animation job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:43+0800</StartTime>
        <State>Success</State>
        <Tag>Animation</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the animated image job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type

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Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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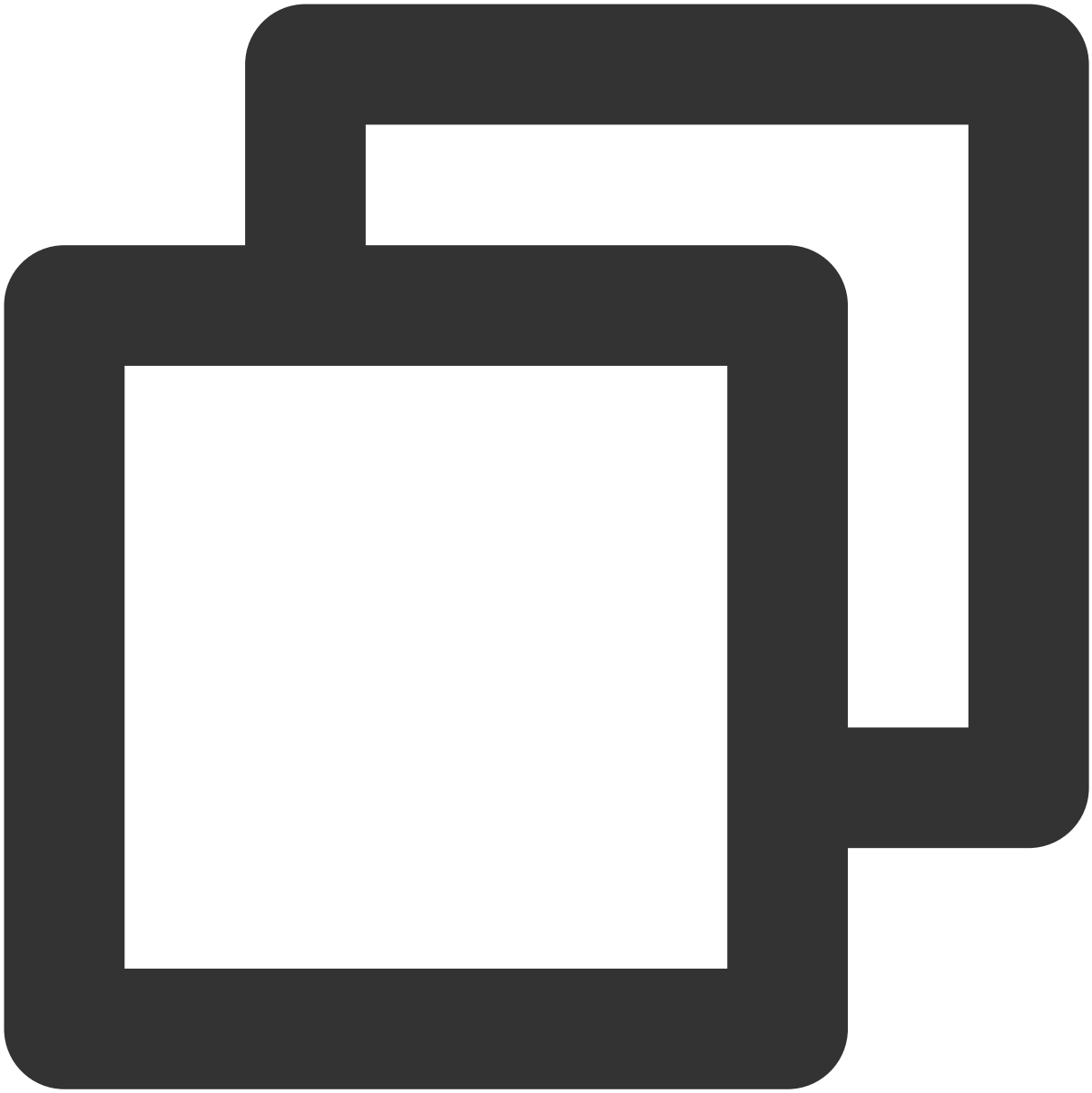

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:29:48+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j682b9662f84611ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>97624.424000</Bitrate>
                    <Duration>0.870000</Duration>
                    <FormatLongName>CompuServe Graphics Interchange Format (GIF)</F
                    <FormatName>gif</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>1</NumStream>
                    <Size>10616656</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video>
                        <AvgFps>14.666667</AvgFps>
                        <CodecLongName>CompuServe GIF (Graphics Interchange Format)
                        <CodecName>gif</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/100</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Duration>0.870000</Duration>
                        <Fps>15.083333</Fps>
                        <HasBFrame>0</HasBFrame>
                        <Height>2258</Height>
                        <Index>0</Index>
                        <Level>-99</Level>
                        <NumFrames>7</NumFrames>
                        <PixFormat>bgra</PixFormat>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/100</Timebase>
                        <Width>1280</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
```

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```
                        <Md5>3df1f845d2ffd20a525a93ec40014d90</Md5>
                        <ObjectName>output/animation.gif</ObjectName>
                    </Md5Info>
                    <ObjectName>output/animation.gif</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/animation.gif</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
            <TemplateName>template_name1512456</TemplateName>
            <UserData>This is my Animation job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:43+0800</StartTime>
        <State>Success</State>
        <Tag>Animation</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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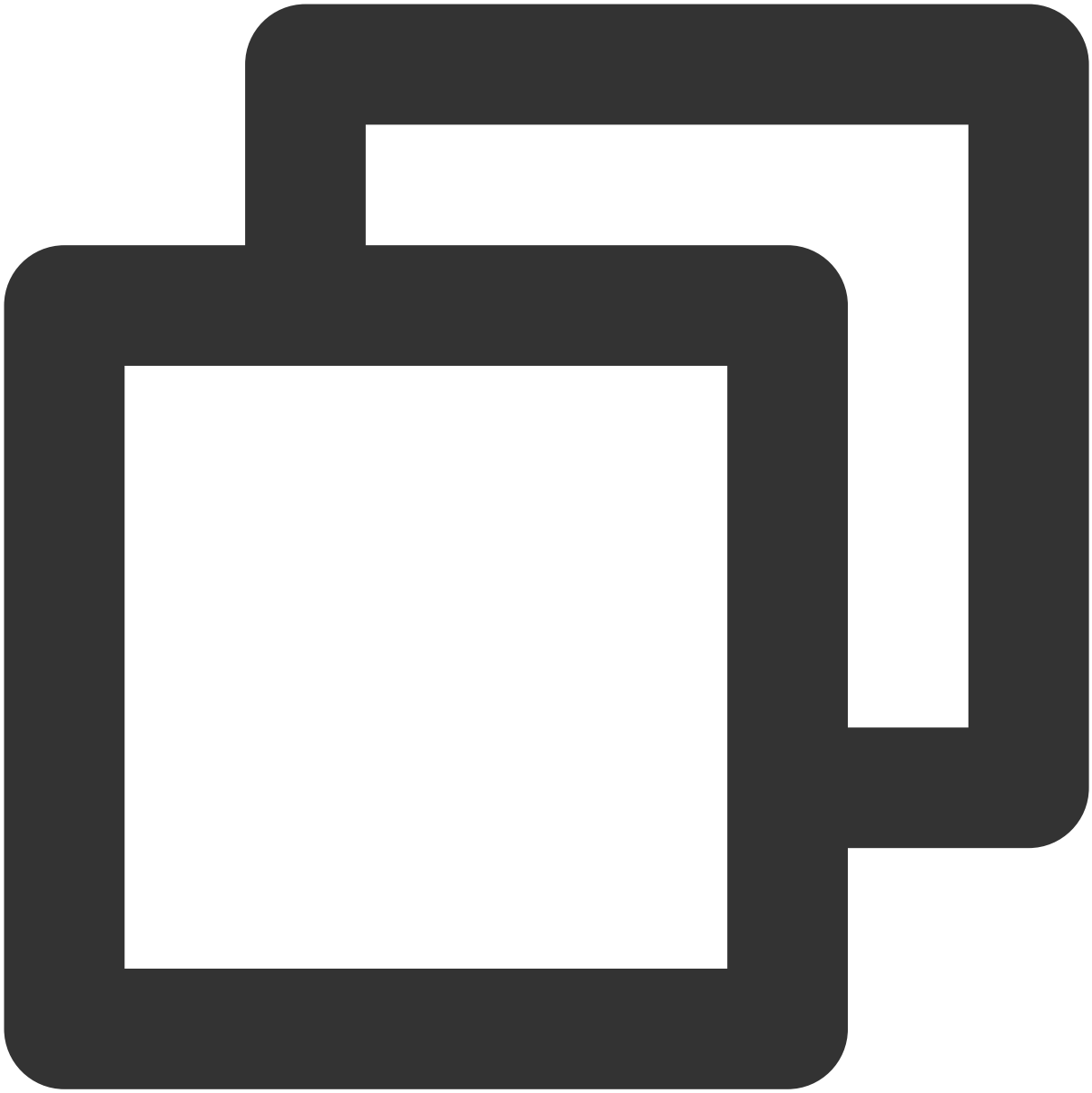

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:29:48+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>j682b9662f84611ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>97624.424000</Bitrate>
                    <Duration>0.870000</Duration>
                    <FormatLongName>CompuServe Graphics Interchange Format (GIF)</F
                    <FormatName>gif</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>1</NumStream>
                    <Size>10616656</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video>
                        <AvgFps>14.666667</AvgFps>
                        <CodecLongName>CompuServe GIF (Graphics Interchange Format)
                        <CodecName>gif</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/100</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Duration>0.870000</Duration>
                        <Fps>15.083333</Fps>
                        <HasBFrame>0</HasBFrame>
                        <Height>2258</Height>
```


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```
                        <Index>0</Index>
                        <Level>-99</Level>
                        <NumFrames>7</NumFrames>
                        <PixFormat>bgra</PixFormat>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/100</Timebase>
                        <Width>1280</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>3df1f845d2ffd20a525a93ec40014d90</Md5>
                        <ObjectName>output/animation.gif</ObjectName>
                    </Md5Info>
                    <ObjectName>output/animation.gif</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/animation.gif</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
            <TemplateName>template_name1512456</TemplateName>
            <UserData>This is my Animation job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:43+0800</StartTime>
        <State>Success</State>
        <Tag>Animation</Tag>
        <Workflow>
            <Name>Animation_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

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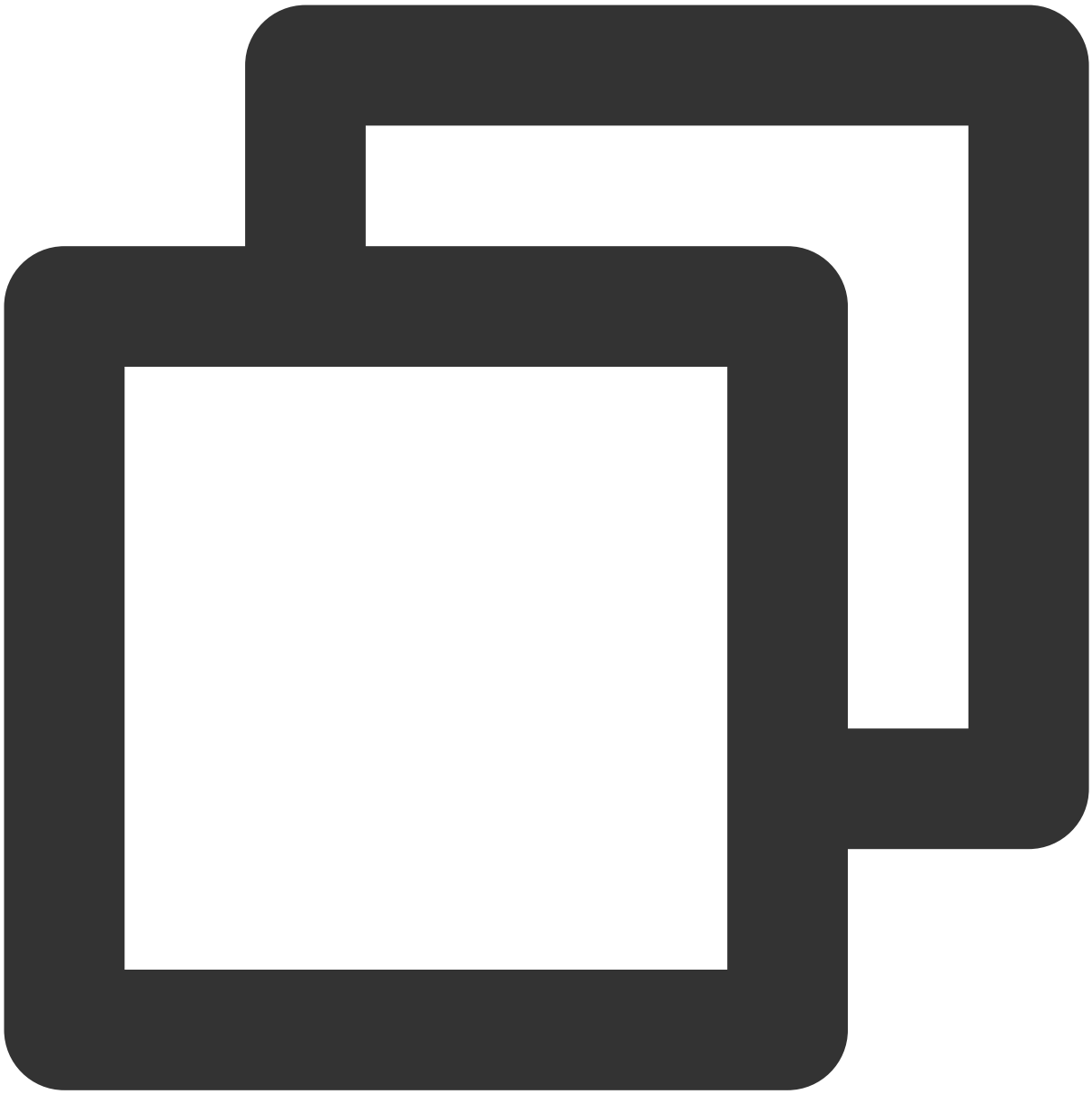
Sample 3: Job callback in JSON format triggered by a workflow



```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T15:29:42+0800",
        "EndTime": "2022-06-30T15:29:48+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
```

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```
            "Region": "ap-chongqing",
            "CosHeaders": [{
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "j682b9662f84611ecb8546d80f2baf56f",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "97624.424000",
                    "Duration": "0.870000",
                    "FormatLongName": "CompuServe Graphics Interchange Format (GIF)
                    "FormatName": "gif",
                    "NumProgram": "0",
                    "NumStream": "1",
                    "Size": "10616656",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Video": {
                        "AvgFps": "14.666667",
                        "CodecLongName": "CompuServe GIF (Graphics Interchange Form
                        "CodecName": "gif",
                        "CodecTag": "0x0000",
                        "CodecTagString": "[0][0][0][0]",
                        "CodecTimeBase": "1/100",
                        "ColorPrimaries": "unknown",
                        "ColorRange": "unknown",
                        "ColorTransfer": "unknown",
                        "Duration": "0.870000",
                        "Fps": "15.083333",
                        "HasBFrame": "0",
                        "Height": "2258",
```


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```
                        "Index": "0",
                        "Level": "-99",
                        "NumFrames": "7",
                        "PixFormat": "bgra",
                        "RefFrames": "1",
                        "Rotation": "0.000000",
                        "StartTime": "0.000000",
                        "Timebase": "1/100",
                        "Width": "1280"
                    }
                }
            },
            "MediaResult": {
                "OutputFile": {
                    "Bucket": "test-123456789",
                    "Md5Info": {
                        "Md5": "3df1f845d2ffd20a525a93ec40014d90",
                        "ObjectName": "output/animation.gif"
                    },
                    "ObjectName": "output/animation.gif",
                    "Region": "ap-chongqing"
                }
            },
            "Output": {
                "Bucket": "test-123456789",
                "Object": "output/animation.gif",
                "Region": "ap-chongqing"
            },
            "TemplateId": "t1f16e1dfbdc994105b31292d45710642a",
            "TemplateName": "template_name1512456",
            "UserData": "This is my Animation job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T15:29:43+0800",
        "State": "Success",
        "Tag": "Animation",
        "Workflow": {
            "Name": "Animation_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Audio/Video Splicing

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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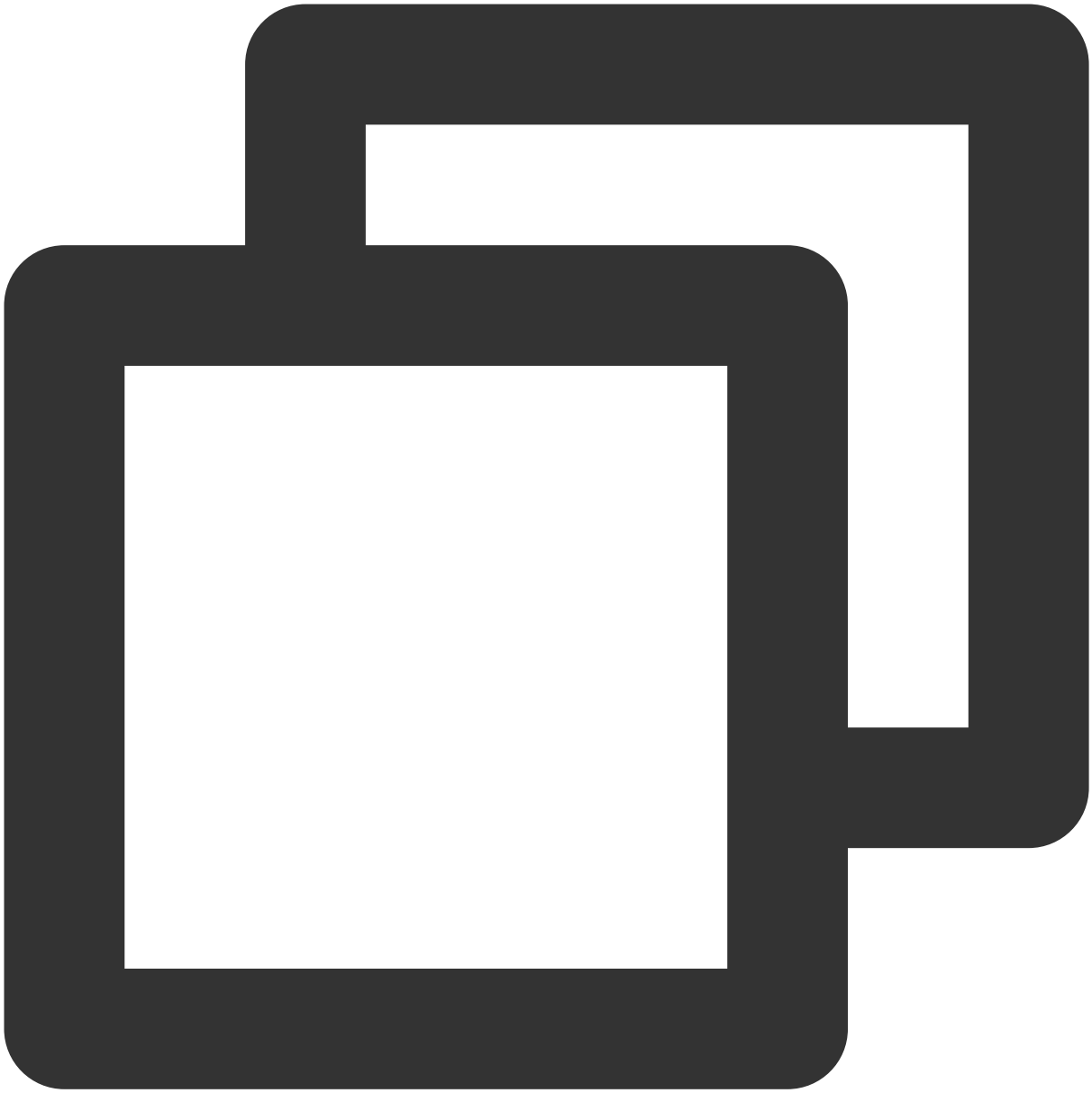

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:33:07+0800</CreationTime>
        <EndTime>2022-06-30T18:33:20+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j07f6263af86011ecbdf419856486c0ab</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>830.482000</Bitrate>
                    <Duration>70.413000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>7309593</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>32.020000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>70.412857</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>14.990016</AvgFps>
                        <Bitrate>803.112000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/90000</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Dar>4:3</Dar>
                        <Duration>69.779778</Duration>
                        <Fps>15.000000</Fps>
```

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```
                        <HasBFrame>2</HasBFrame>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>32</Level>
                        <NumFrames>1046</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <Sar>1:1</Sar>
                        <StartTime>0.046000</StartTime>
                        <Timebase>1/90000</Timebase>
                        <Width>1280</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>96322f8638d38480683e069e6b2ba1e9</Md5>
                        <ObjectName>output/concat.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/concat.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/concat.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t140325e8918ac423da53b7d78dbbab564</TemplateId>
            <TemplateName>template_name3544697</TemplateName>
            <UserData>This is my Concat job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:33:08+0800</StartTime>
        <State>Success</State>
        <Tag>Concat</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the splicing job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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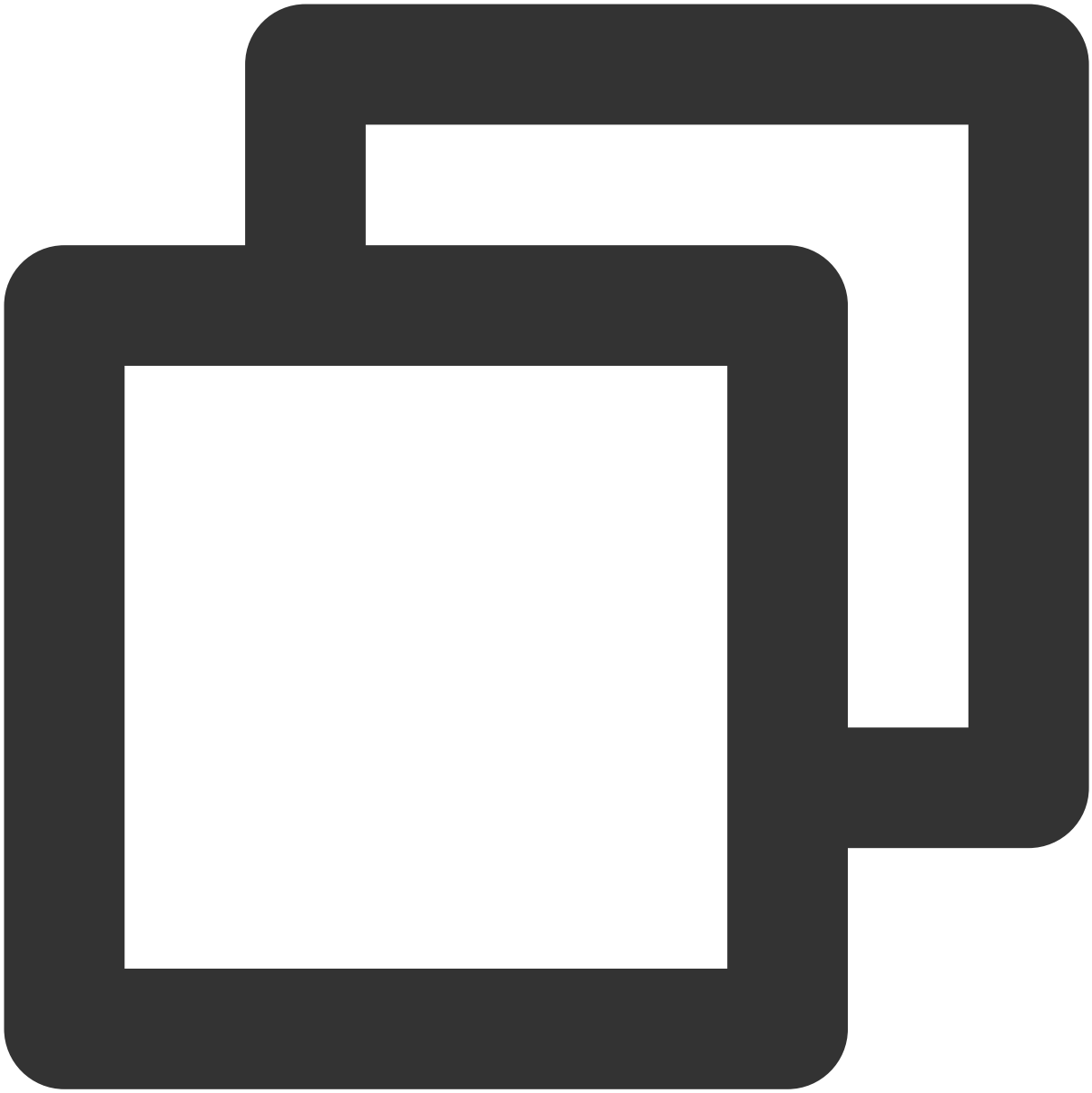

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:33:07+0800</CreationTime>
        <EndTime>2022-06-30T18:33:20+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j07f6263af86011ecbdf419856486c0ab</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>830.482000</Bitrate>
                    <Duration>70.413000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>7309593</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>32.020000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>70.412857</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>14.990016</AvgFps>
                        <Bitrate>803.112000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/90000</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Dar>4:3</Dar>
                        <Duration>69.779778</Duration>
                        <Fps>15.000000</Fps>
```

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```
                        <HasBFrame>2</HasBFrame>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>32</Level>
                        <NumFrames>1046</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <Sar>1:1</Sar>
                        <StartTime>0.046000</StartTime>
                        <Timebase>1/90000</Timebase>
                        <Width>1280</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>96322f8638d38480683e069e6b2ba1e9</Md5>
                        <ObjectName>output/concat.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/concat.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/concat.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t140325e8918ac423da53b7d78dbbab564</TemplateId>
            <TemplateName>template_name3544697</TemplateName>
            <UserData>This is my Concat job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:33:08+0800</StartTime>
        <State>Success</State>
        <Tag>Concat</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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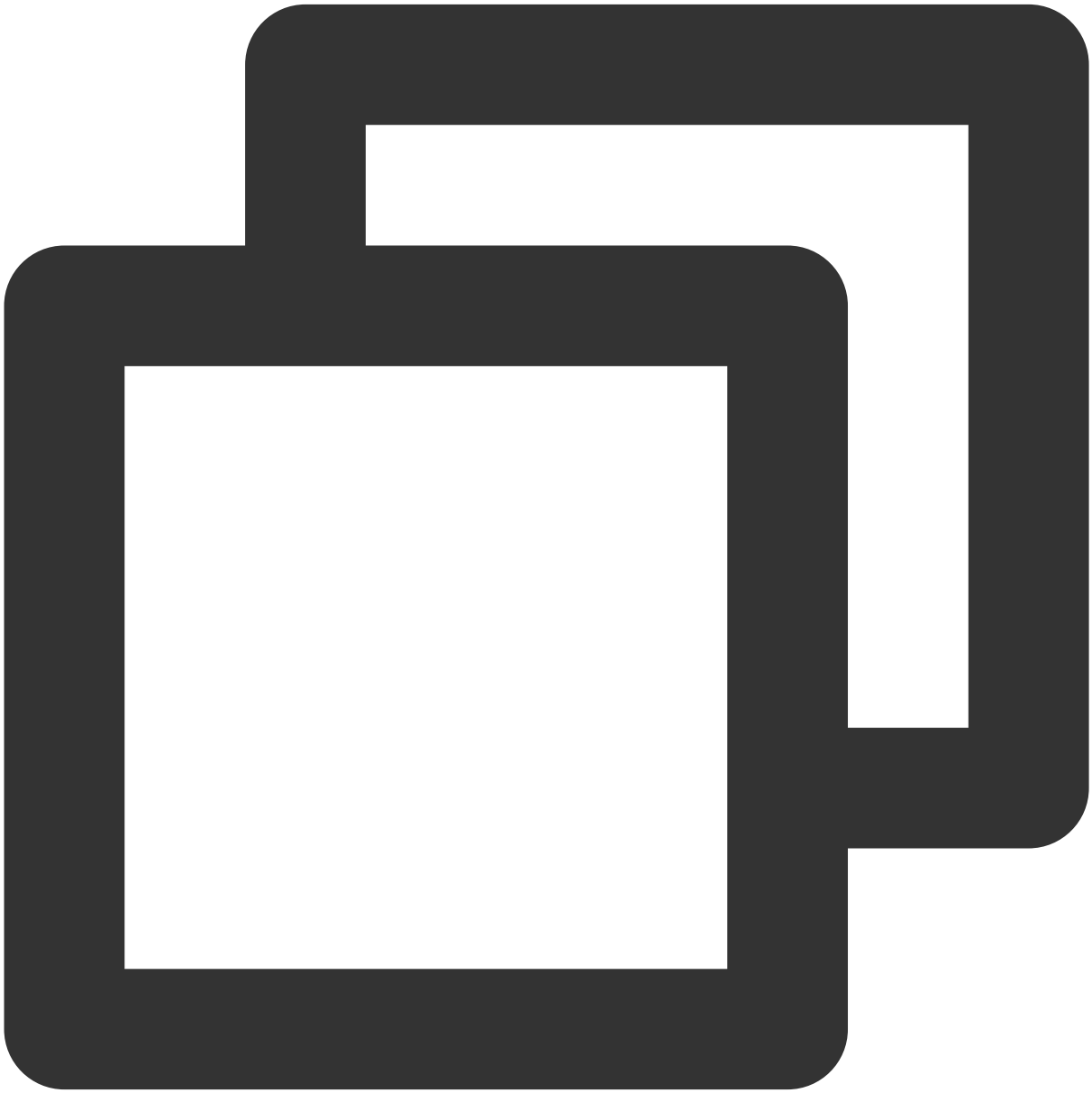

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:33:07+0800</CreationTime>
        <EndTime>2022-06-30T18:33:20+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>j07f6263af86011ecbdf419856486c0ab</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>830.482000</Bitrate>
                    <Duration>70.413000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>7309593</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>32.020000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>70.412857</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
```

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```
                </Audio>
                <Subtitle/>
                <Video>
                    <AvgFps>14.990016</AvgFps>
                    <Bitrate>803.112000</Bitrate>
                    <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                    <CodecName>h264</CodecName>
                    <CodecTag>0x31637661</CodecTag>
                    <CodecTagString>avc1</CodecTagString>
                    <CodecTimeBase>1/90000</CodecTimeBase>
                    <ColorPrimaries>unknown</ColorPrimaries>
                    <ColorRange>unknown</ColorRange>
                    <ColorTransfer>unknown</ColorTransfer>
                    <Dar>4:3</Dar>
                    <Duration>69.779778</Duration>
                    <Fps>15.000000</Fps>
                    <HasBFrame>2</HasBFrame>
                    <Height>960</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>32</Level>
                    <NumFrames>1046</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>High</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <Sar>1:1</Sar>
                    <StartTime>0.046000</StartTime>
                    <Timebase>1/90000</Timebase>
                    <Width>1280</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>96322f8638d38480683e069e6b2ba1e9</Md5>
                    <ObjectName>output/concat.mp4</ObjectName>
                </Md5Info>
                <ObjectName>output/concat.mp4</ObjectName>
                <ObjectPrefix/>
                <Region>ap-chongqing</Region>
            </OutputFile>
        </MediaResult>
        <Output>
            <Bucket>test-123456789</Bucket>
```


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```
                <Object>output/concat.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t140325e8918ac423da53b7d78dbbab564</TemplateId>
            <TemplateName>template_name3544697</TemplateName>
            <UserData>This is my Concat job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:33:08+0800</StartTime>
        <State>Success</State>
        <Tag>Concat</Tag>
        <Workflow>
            <Name>Concat_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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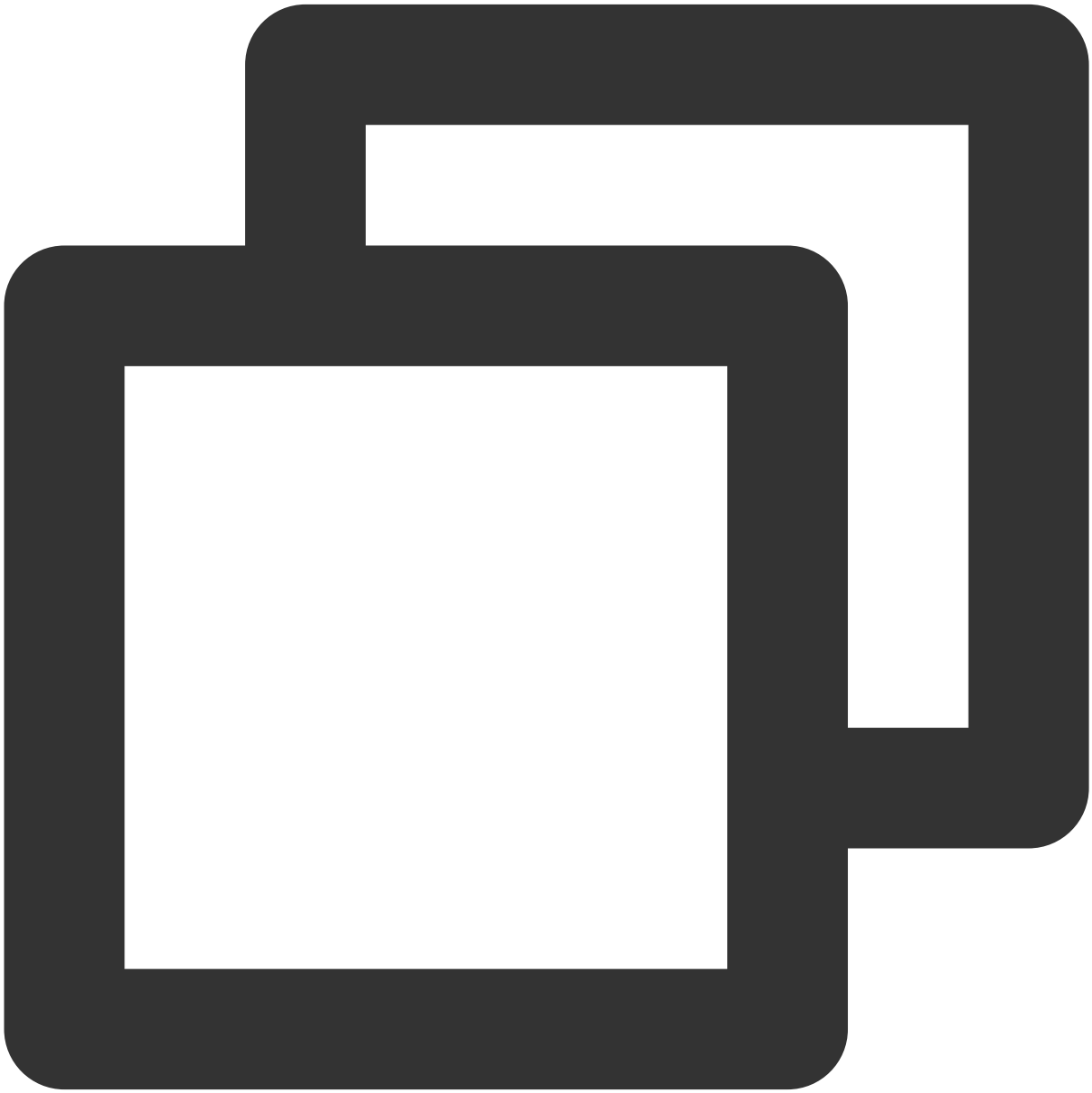

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T18:33:07+0800",
        "EndTime": "2022-06-30T18:33:20+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```

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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "j07f6263af86011ecbdf419856486c0ab",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "830.482000",
                    "Duration": "70.413000",
                    "FormatLongName": "QuickTime / MOV",
                    "FormatName": "mov,mp4,m4a,3gp,3g2,mj2",
                    "NumProgram": "0",
                    "NumStream": "2",
                    "Size": "7309593",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "32.020000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/44100",
                        "Duration": "70.412857",
                        "Index": "1",
                        "Language": "und",
                        "SampleFmt": "fltp",
                        "SampleRate": "44100",
                        "StartTime": "0.000000",
                        "Timebase": "1/44100"
```


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```
                },
                "Video": {
                    "AvgFps": "14.990016",
                    "Bitrate": "803.112000",
                    "CodecLongName": "H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
                    "CodecName": "h264",
                    "CodecTag": "0x31637661",
                    "CodecTagString": "avc1",
                    "CodecTimeBase": "1/90000",
                    "ColorPrimaries": "unknown",
                    "ColorRange": "unknown",
                    "ColorTransfer": "unknown",
                    "Dar": "4:3",
                    "Duration": "69.779778",
                    "Fps": "15.000000",
                    "HasBFrame": "2",
                    "Height": "960",
                    "Index": "0",
                    "Language": "und",
                    "Level": "32",
                    "NumFrames": "1046",
                    "PixFormat": "yuv420p",
                    "Profile": "High",
                    "RefFrames": "1",
                    "Rotation": "0.000000",
                    "Sar": "1:1",
                    "StartTime": "0.046000",
                    "Timebase": "1/90000",
                    "Width": "1280"
                }
            }
        },
        "MediaResult": {
            "OutputFile": {
                "Bucket": "test-123456789",
                "Md5Info": {
                    "Md5": "96322f8638d38480683e069e6b2ba1e9",
                    "ObjectName": "output/concat.mp4"
                },
                "ObjectName": "output/concat.mp4",
                "Region": "ap-chongqing"
            }
        },
        "Output": {
            "Bucket": "test-123456789",
            "Object": "output/concat.mp4",
            "Region": "ap-chongqing"
```


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```
            },
            "TemplateId": "t140325e8918ac423da53b7d78dbbab564",
            "TemplateName": "template_name3544697",
            "UserData": "This is my Concat job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T18:33:08+0800",
        "State": "Success",
        "Tag": "Concat",
        "Workflow": {
            "Name": "Concat_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Adding Digital Watermark

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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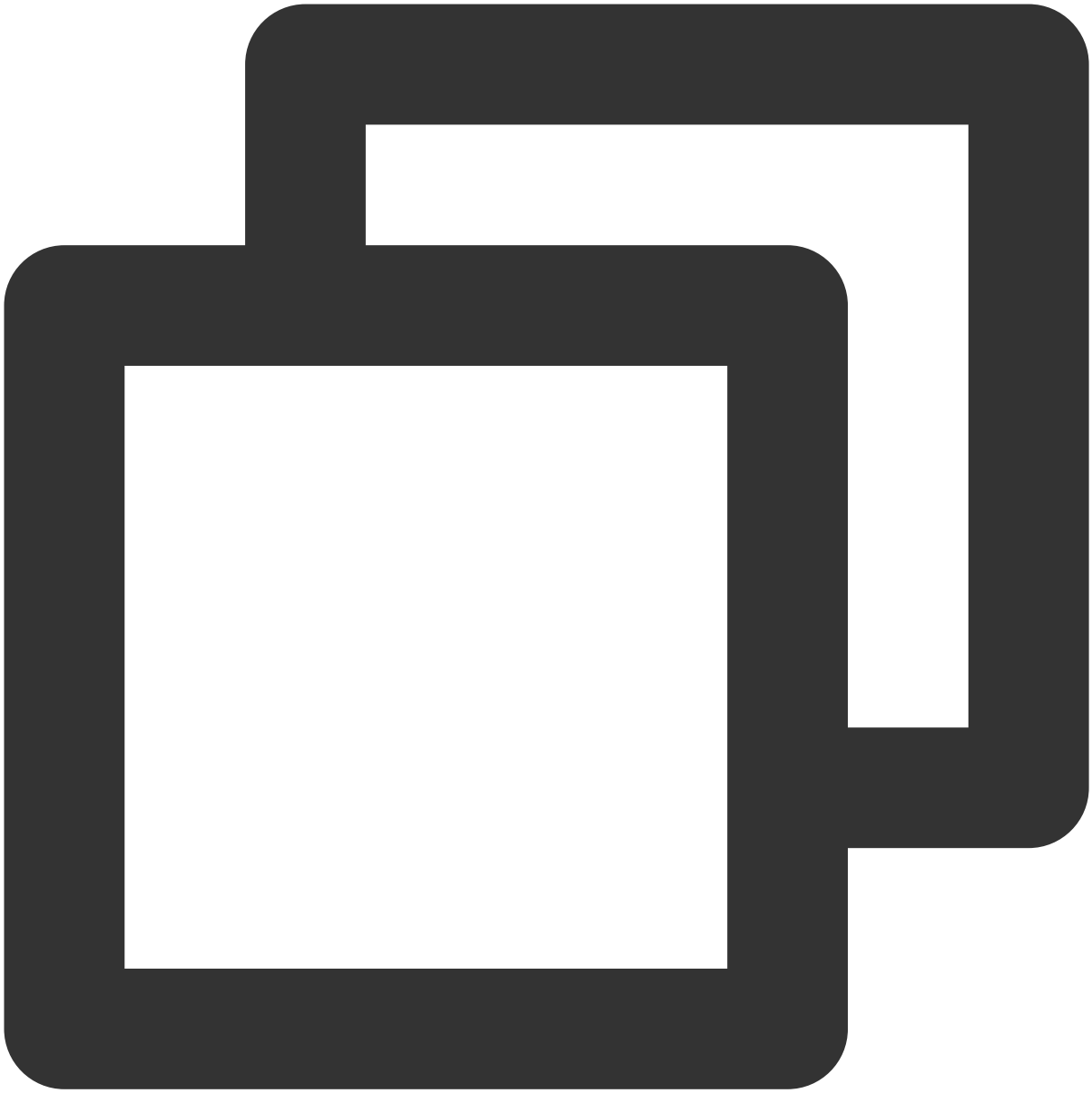

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:37:37+0800</CreationTime>
        <EndTime>2022-06-30T18:39:08+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>ja8de3b46f86011ec9452c1c27f56a659</JobId>
        <Message/>
        <Operation>
            <DigitalWatermark>
                <Message>123456789ab</Message>
                <Type>Text</Type>
                <Version>V1</Version>
            </DigitalWatermark>
            <MediaInfo>
                <Format>
                    <Bitrate>2533.526000</Bitrate>
                    <Duration>215.638000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>68290577</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>256.050000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/48000</CodecTimeBase>
                        <Duration>215.637000</Duration>
                        <Index>1</Index>
                        <Language>eng</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>48000</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/48000</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>24.000000</AvgFps>
                        <Bitrate>2272.528000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/12288</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
```

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```
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Duration>215.583333</Duration>
                        <Fps>24.000000</Fps>
                        <HasBFrame>2</HasBFrame>
                        <Height>1080</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>40</Level>
                        <NumFrames>5174</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12288</Timebase>
                        <Width>1920</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>043221daee3f4e15ff13f42329f15eb1</Md5>
                        <ObjectName>output/digital.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/digital.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/digital.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <UserData>This is my DigitalWatermark job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:37:38+0800</StartTime>
        <State>Success</State>
        <SubTag>DigitalWatermark</SubTag>
        <Tag>DigitalWatermark</Tag>
    </JobsDetail>
</Response>
```

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The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the digital watermark job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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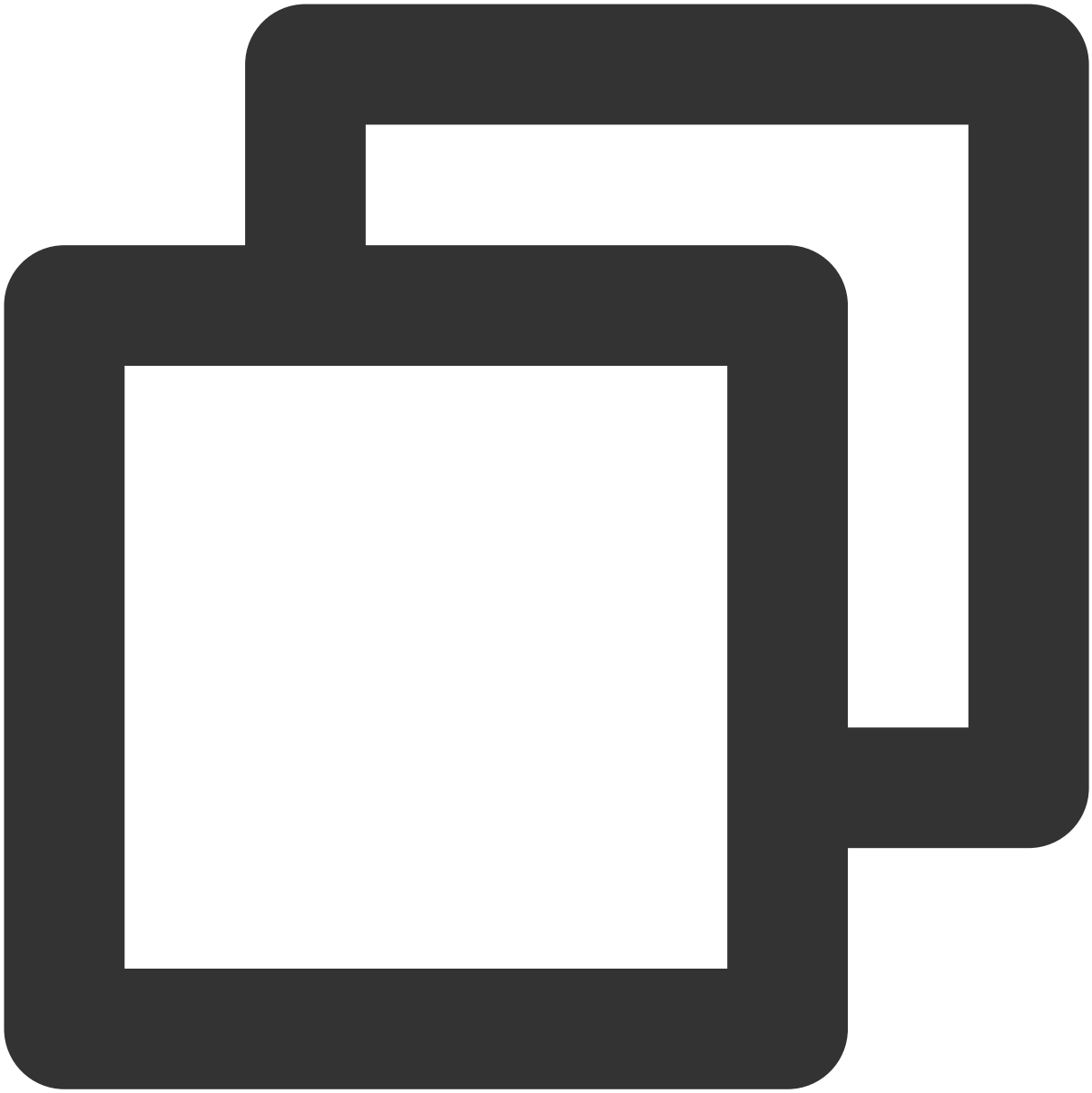

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:37:37+0800</CreationTime>
        <EndTime>2022-06-30T18:39:08+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>ja8de3b46f86011ec9452c1c27f56a659</JobId>
        <Message/>
        <Operation>
            <DigitalWatermark>
                <Message>123456789ab</Message>
                <Type>Text</Type>
                <Version>V1</Version>
            </DigitalWatermark>
            <MediaInfo>
                <Format>
                    <Bitrate>2533.526000</Bitrate>
                    <Duration>215.638000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>68290577</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>256.050000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/48000</CodecTimeBase>
                        <Duration>215.637000</Duration>
                        <Index>1</Index>
                        <Language>eng</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>48000</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/48000</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>24.000000</AvgFps>
                        <Bitrate>2272.528000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/12288</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
```

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```
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Duration>215.583333</Duration>
                        <Fps>24.000000</Fps>
                        <HasBFrame>2</HasBFrame>
                        <Height>1080</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>40</Level>
                        <NumFrames>5174</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12288</Timebase>
                        <Width>1920</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>043221daee3f4e15ff13f42329f15eb1</Md5>
                        <ObjectName>output/digital.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/digital.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/digital.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <UserData>This is my DigitalWatermark job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:37:38+0800</StartTime>
        <State>Success</State>
        <SubTag>DigitalWatermark</SubTag>
        <Tag>DigitalWatermark</Tag>
    </JobsDetail>
</Response>
```

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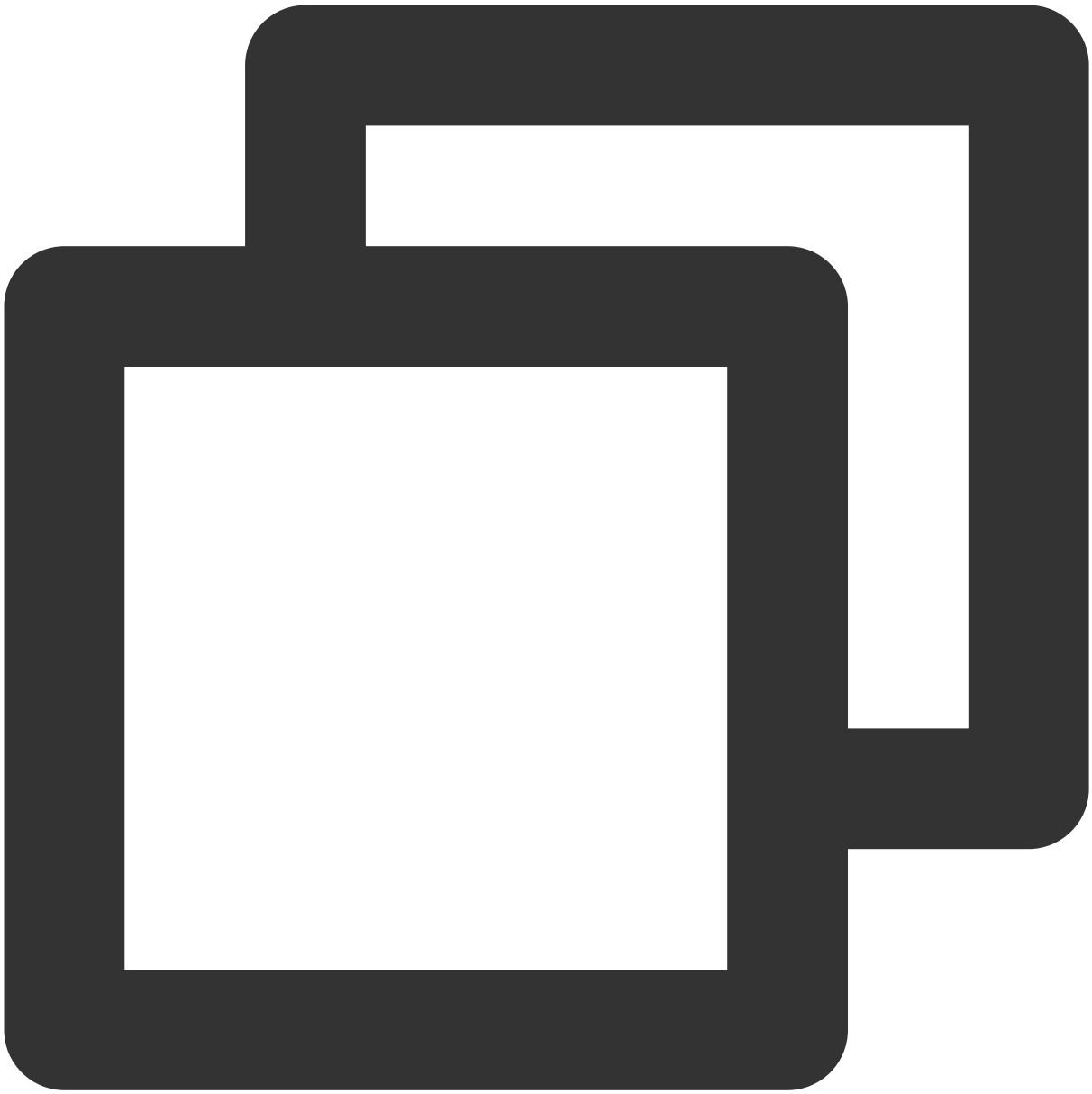
Sample 2: Job callback in JSON format triggered by a job API



```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T18:37:37+0800",
        "EndTime": "2022-06-30T18:39:08+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
```

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```
            "Region": "ap-chongqing"
        },
        "JobId": "ja8de3b46f86011ec9452c1c27f56a659",
        "Operation": {
            "DigitalWatermark": {
                "Message": "123456789ab",
                "Type": "Text",
                "Version": "V1"
            },
            "MediaInfo": {
                "Format": {
                    "Bitrate": "2533.526000",
                    "Duration": "215.638000",
                    "FormatLongName": "QuickTime / MOV",
                    "FormatName": "mov,mp4,m4a,3gp,3g2,mj2",
                    "NumProgram": "0",
                    "NumStream": "2",
                    "Size": "68290577",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "256.050000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/48000",
                        "Duration": "215.637000",
                        "Index": "1",
                        "Language": "eng",
                        "SampleFmt": "fltp",
                        "SampleRate": "48000",
                        "StartTime": "0.000000",
                        "Timebase": "1/48000"
                    },
                    "Video": {
                        "AvgFps": "24.000000",
                        "Bitrate": "2272.528000",
                        "CodecLongName": "H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
                        "CodecName": "h264",
                        "CodecTag": "0x31637661",
                        "CodecTagString": "avc1",
                        "CodecTimeBase": "1/12288",
                        "ColorPrimaries": "unknown",
```


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```
                        "ColorRange": "unknown",
                        "ColorTransfer": "unknown",
                        "Duration": "215.583333",
                        "Fps": "24.000000",
                        "HasBFrame": "2",
                        "Height": "1080",
                        "Index": "0",
                        "Language": "und",
                        "Level": "40",
                        "NumFrames": "5174",
                        "PixFormat": "yuv420p",
                        "Profile": "High",
                        "RefFrames": "1",
                        "Rotation": "0.000000",
                        "StartTime": "0.000000",
                        "Timebase": "1/12288",
                        "Width": "1920"
                    }
                }
            },
            "MediaResult": {
                "OutputFile": {
                    "Bucket": "test-123456789",
                    "Md5Info": {
                        "Md5": "043221daee3f4e15ff13f42329f15eb1",
                        "ObjectName": "output/digital.mp4"
                    },
                    "ObjectName": "output/digital.mp4",
                    "Region": "ap-chongqing"
                }
            },
            "Output": {
                "Bucket": "test-123456789",
                "Object": "output/digital.mp4",
                "Region": "ap-chongqing"
            },
            "UserData": "This is my DigitalWatermark job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T18:37:38+0800",
        "State": "Success",
        "SubTag": "DigitalWatermark",
        "Tag": "DigitalWatermark"
    }
}
```


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Extracting Digital Watermark

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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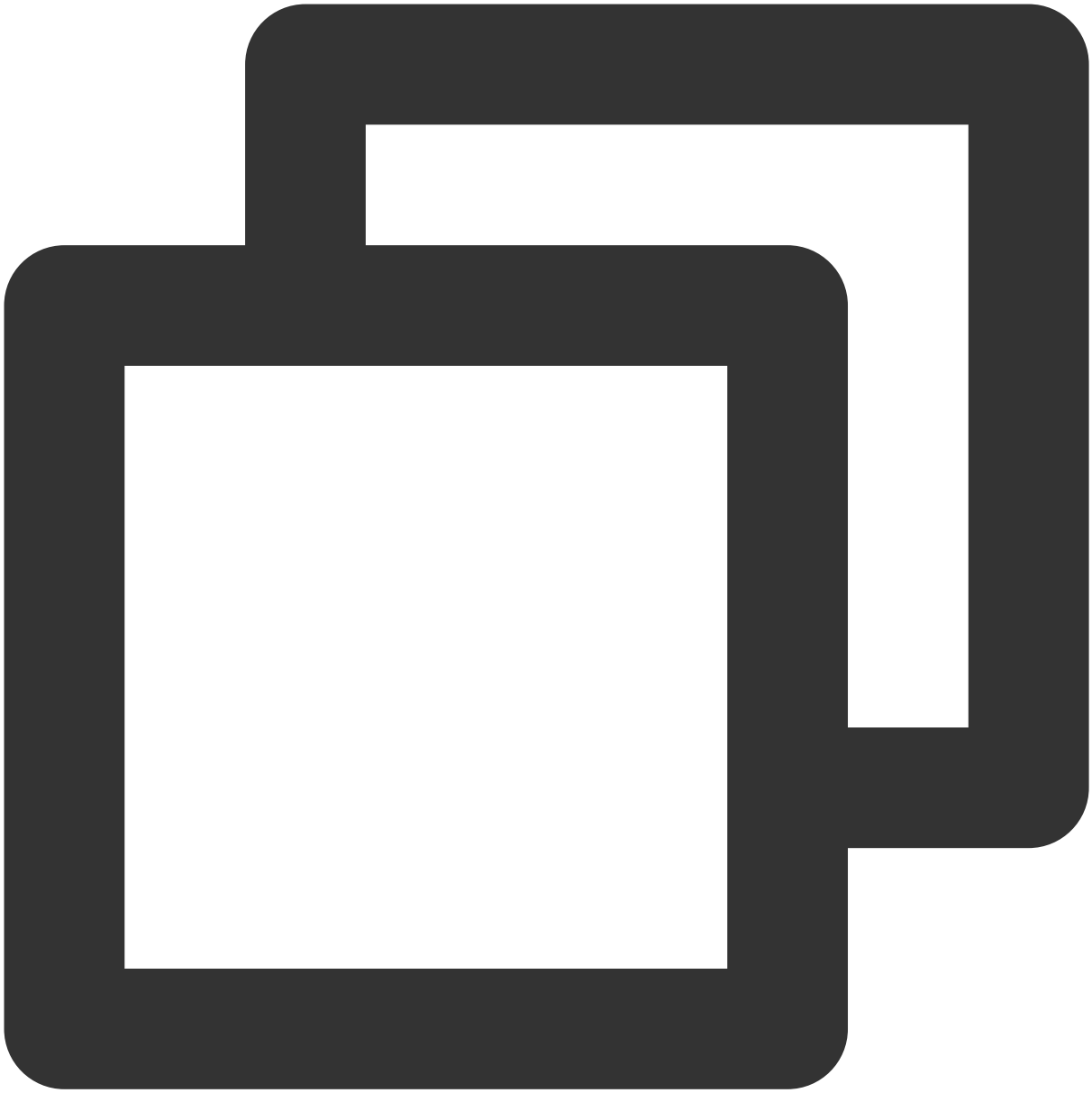

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:42:20+0800</CreationTime>
        <EndTime>2022-06-30T18:42:54+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>output/digital.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j515a494af86111ecb8546d80f2baf56f</JobId>
        <Message>done</Message>
        <Operation>
            <ExtractDigitalWatermark>
                <Message>123456789ab</Message>
                <Type>Text</Type>
                <Version>V1</Version>
            </ExtractDigitalWatermark>
            <UserData>This is my ExtractDigitalWatermark job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:42:21+0800</StartTime>
        <State>Success</State>
        <Tag>ExtractDigitalWatermark</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the digital watermark extracting job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

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`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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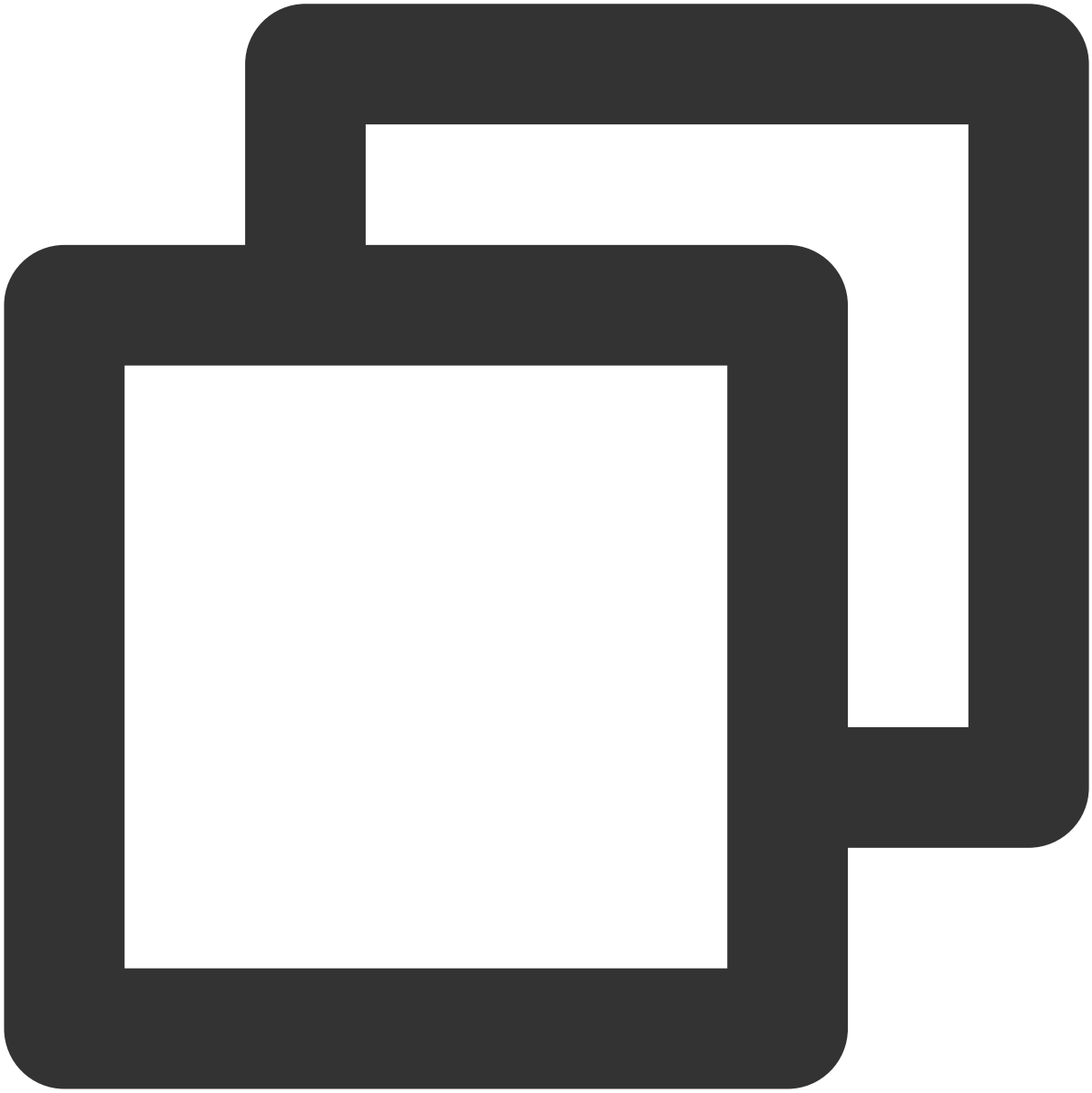

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:42:20+0800</CreationTime>
        <EndTime>2022-06-30T18:42:54+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>output/digital.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j515a494af86111ecb8546d80f2baf56f</JobId>
        <Message>done</Message>
        <Operation>
            <ExtractDigitalWatermark>
                <Message>123456789ab</Message>
                <Type>Text</Type>
                <Version>V1</Version>
            </ExtractDigitalWatermark>
            <UserData>This is my ExtractDigitalWatermark job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:42:21+0800</StartTime>
        <State>Success</State>
        <Tag>ExtractDigitalWatermark</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback in JSON format triggered by a job API

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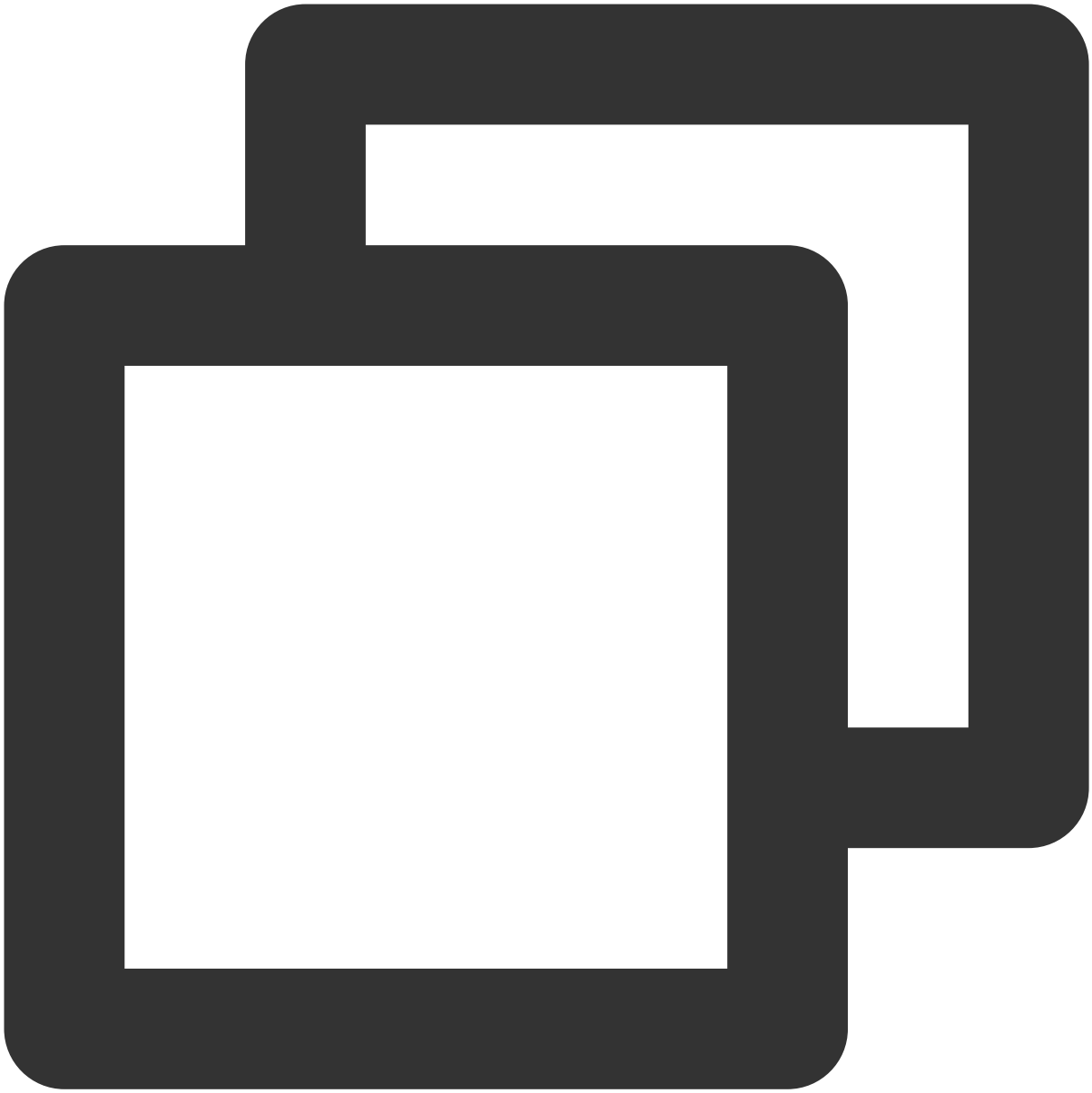


```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T18:42:20+0800",
        "EndTime": "2022-06-30T18:42:54+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "output/digital.mp4",
            "Region": "ap-chongqing"
        },
```


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```
        "JobId": "j515a494af86111ecb8546d80f2baf56f",
        "Message": "done",
        "Operation": {
            "ExtractDigitalWatermark": {
                "Message": "123456789ab",
                "Type": "Text",
                "Version": "V1"
            },
            "UserData": "This is my ExtractDigitalWatermark job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T18:42:21+0800",
        "State": "Success",
        "Tag": "ExtractDigitalWatermark"
    }
}
```


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Getting Media Information

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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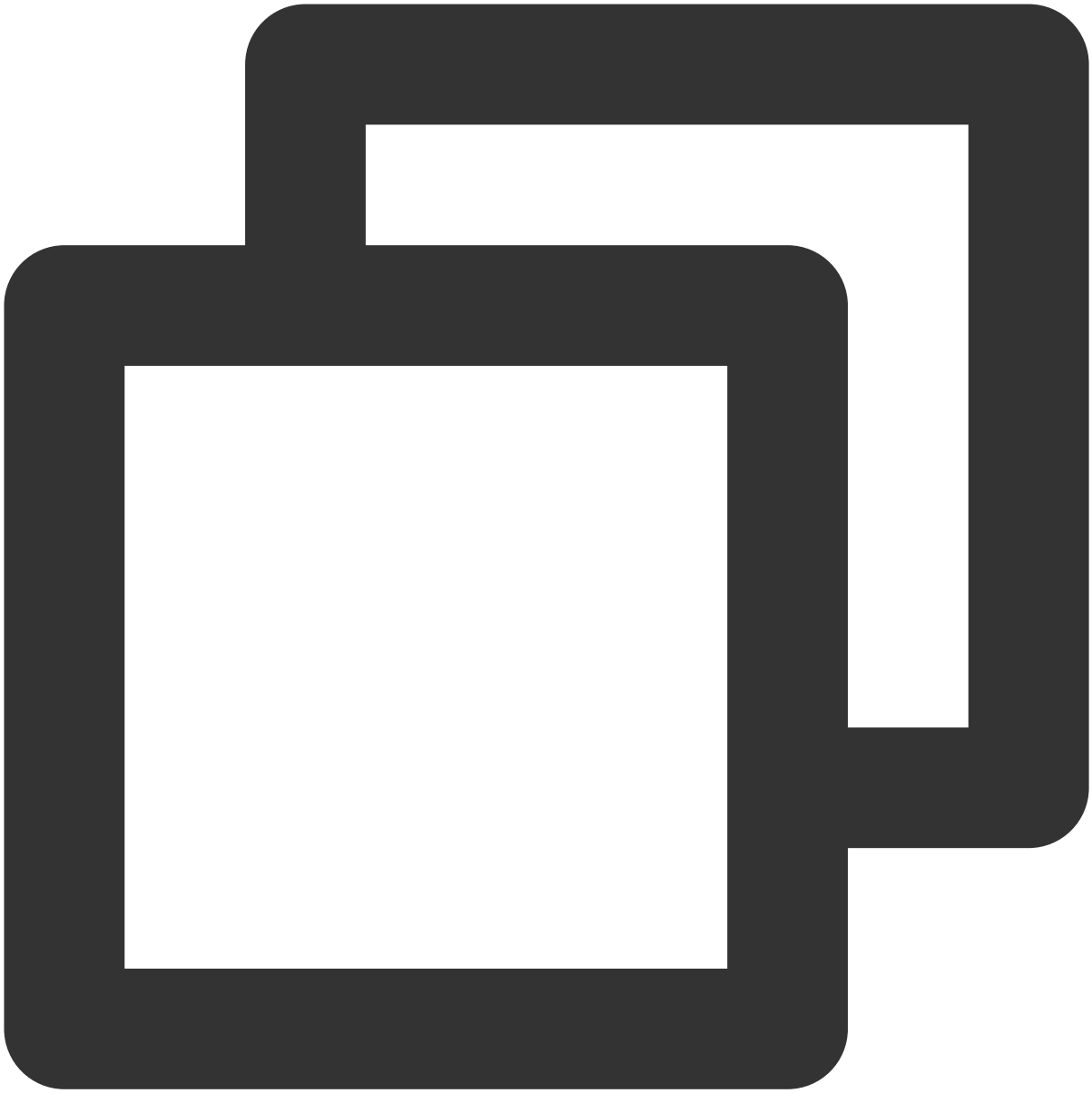

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:45:14+0800</CreationTime>
        <EndTime>2022-06-30T18:45:15+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>jb976c9e0f86111ec9452c1c27f56a659</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>834.736000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>1424687</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>104.047000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.653311</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>25.000000</AvgFps>
                        <Bitrate>763.774000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/12800</CodecTimeBase>
                        <ColorPrimaries>bt470bg</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>12.960000</Duration>
                        <Fps>25.000000</Fps>
                        <HasBFrame>0</HasBFrame>
```

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```
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>10</Level>
                        <NumFrames>324</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <UserData>This is my MediaInfo job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:45:15+0800</StartTime>
        <State>Success</State>
        <Tag>MediaInfo</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the media information query job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type

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Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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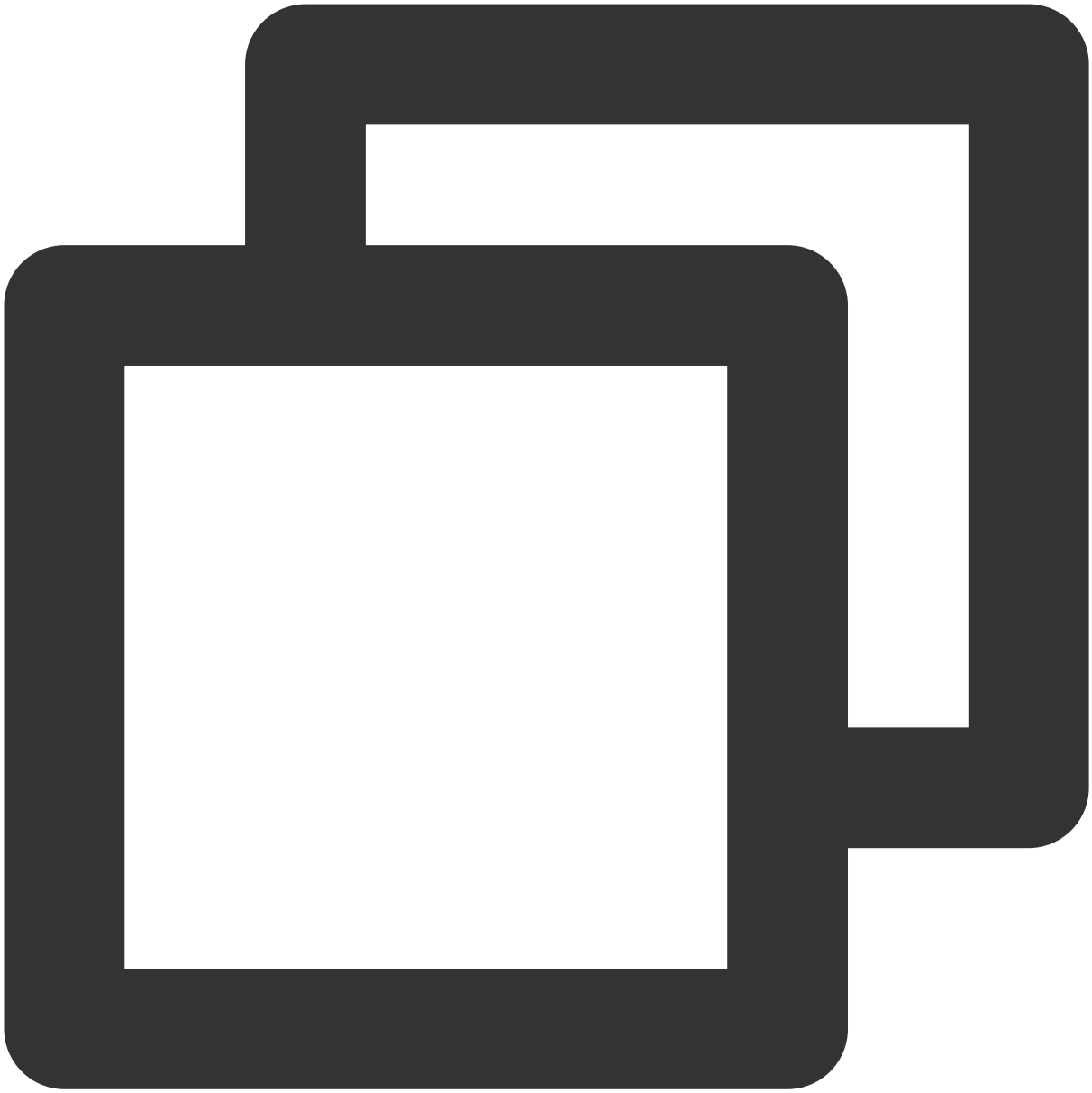

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:45:14+0800</CreationTime>
        <EndTime>2022-06-30T18:45:15+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>jb976c9e0f86111ec9452c1c27f56a659</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>834.736000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>1424687</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>104.047000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.653311</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>25.000000</AvgFps>
                        <Bitrate>763.774000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/12800</CodecTimeBase>
                        <ColorPrimaries>bt470bg</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>12.960000</Duration>
                        <Fps>25.000000</Fps>
                        <HasBFrame>0</HasBFrame>
```

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```
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>10</Level>
                        <NumFrames>324</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <UserData>This is my MediaInfo job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:45:15+0800</StartTime>
        <State>Success</State>
        <Tag>MediaInfo</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback in JSON format triggered by a job API

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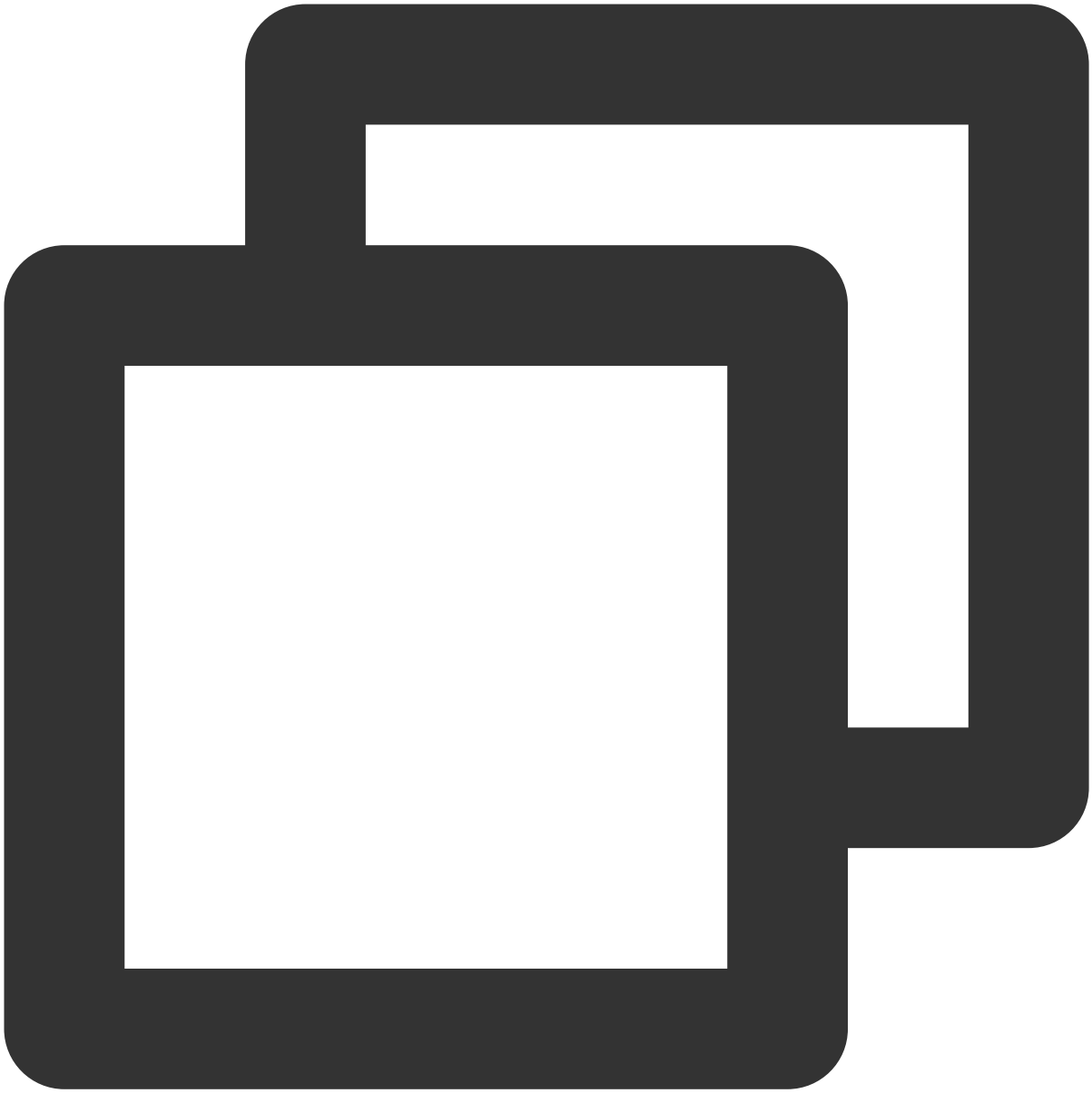

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T18:45:14+0800",
        "EndTime": "2022-06-30T18:45:15+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing"
        },
```

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```
        "JobId": "jb976c9e0f86111ec9452c1c27f56a659",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "834.736000",
                    "Duration": "13.654000",
                    "FormatLongName": "QuickTime / MOV",
                    "FormatName": "mov,mp4,m4a,3gp,3g2,mj2",
                    "NumProgram": "0",
                    "NumStream": "2",
                    "Size": "1424687",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "104.047000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/44100",
                        "Duration": "13.653311",
                        "Index": "1",
                        "Language": "und",
                        "SampleFmt": "fltp",
                        "SampleRate": "44100",
                        "StartTime": "0.000000",
                        "Timebase": "1/44100"
                    },
                    "Video": {
                        "AvgFps": "25.000000",
                        "Bitrate": "763.774000",
                        "CodecLongName": "H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
                        "CodecName": "h264",
                        "CodecTag": "0x31637661",
                        "CodecTagString": "avc1",
                        "CodecTimeBase": "1/12800",
                        "ColorPrimaries": "bt470bg",
                        "ColorRange": "tv",
                        "ColorTransfer": "smpte170m",
                        "Duration": "12.960000",
                        "Fps": "25.000000",
                        "HasBFrame": "0",
                        "Height": "960",
                        "Index": "0",
```


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```
                        "Language": "und",
                        "Level": "10",
                        "NumFrames": "324",
                        "PixFormat": "yuv420p",
                        "Profile": "High",
                        "RefFrames": "1",
                        "Rotation": "0.000000",
                        "StartTime": "0.000000",
                        "Timebase": "1/12800",
                        "Width": "544"
                    }
                }
            },
            "UserData": "This is my MediaInfo job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T18:45:15+0800",
        "State": "Success",
        "Tag": "MediaInfo"
    }
}
```


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Noise Cancellation

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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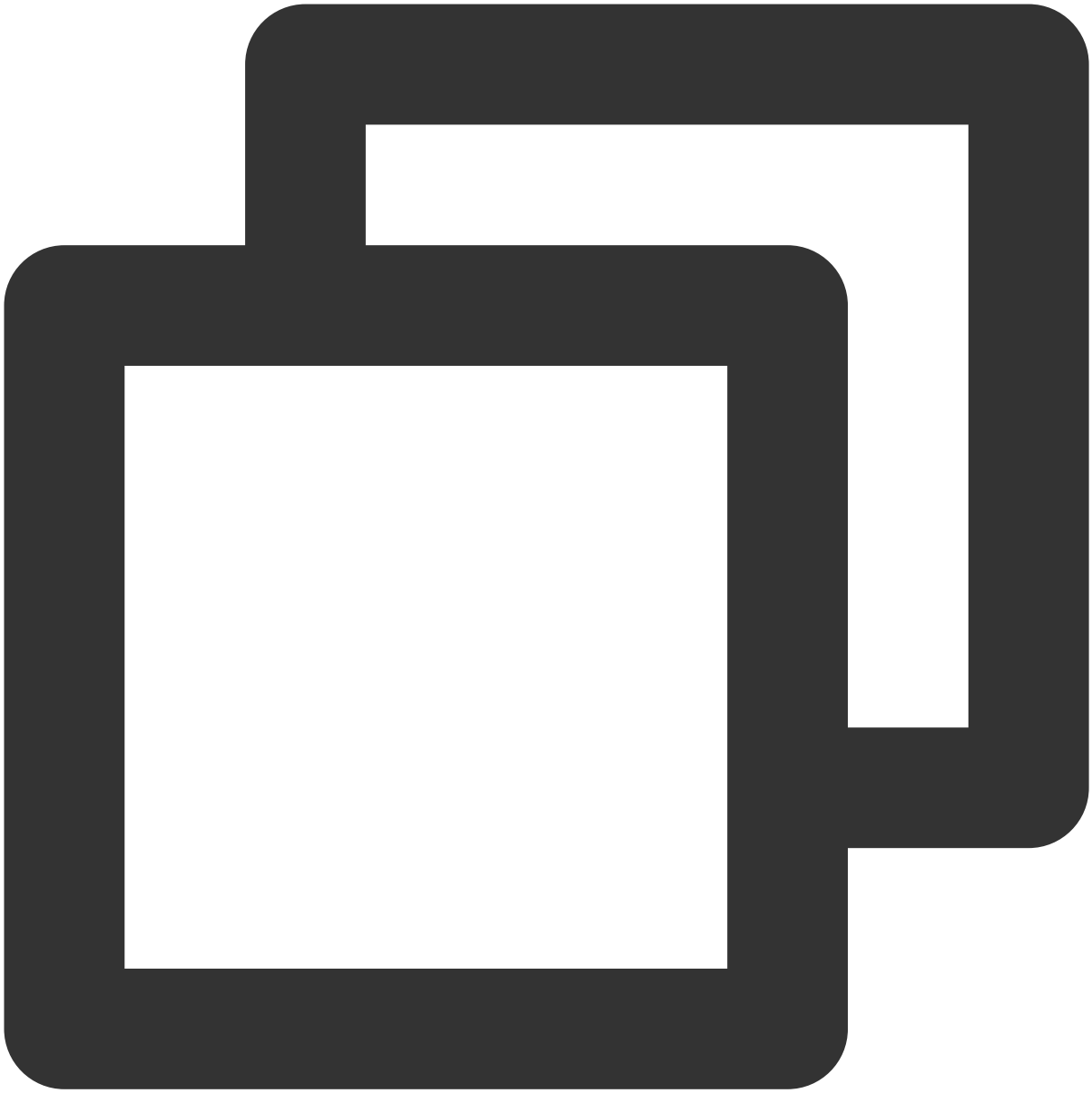

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:47:18+0800</CreationTime>
        <EndTime>2022-06-30T18:47:30+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp3</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j035aca66f86211ec8a5a87e016101404</JobId>
        <Message>SUCCESS</Message>
        <Operation>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/nr.wav</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <UserData>This is my NoiseReduction job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:47:20+0800</StartTime>
        <State>Success</State>
        <Tag>NoiseReduction</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the audio noise cancellation job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

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`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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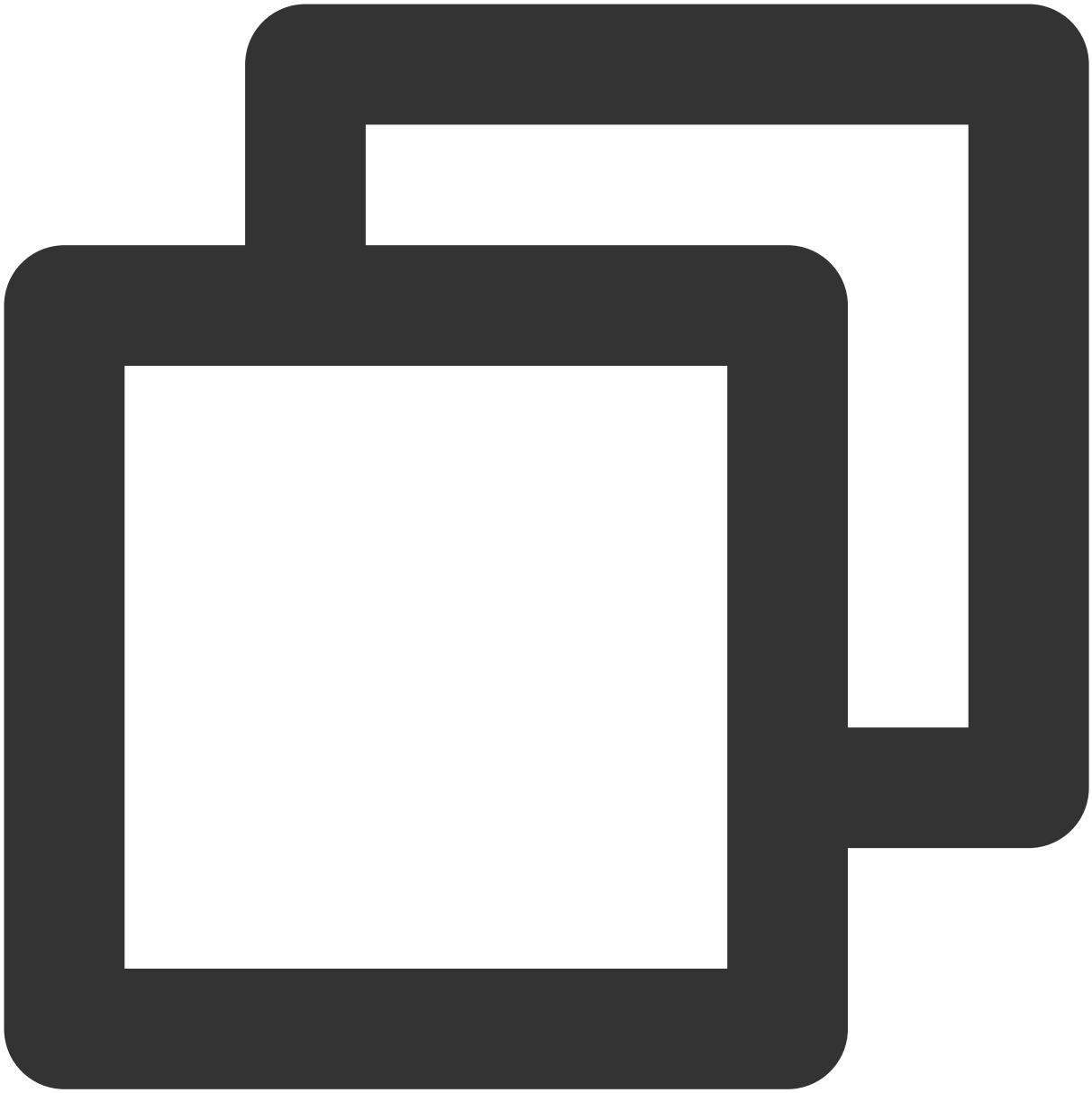

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T18:47:18+0800</CreationTime>
        <EndTime>2022-06-30T18:47:30+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp3</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j035aca66f86211ec8a5a87e016101404</JobId>
        <Message>SUCCESS</Message>
        <Operation>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/nr.wav</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <UserData>This is my NoiseReduction job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T18:47:20+0800</StartTime>
        <State>Success</State>
        <Tag>NoiseReduction</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback in JSON format triggered by a job API

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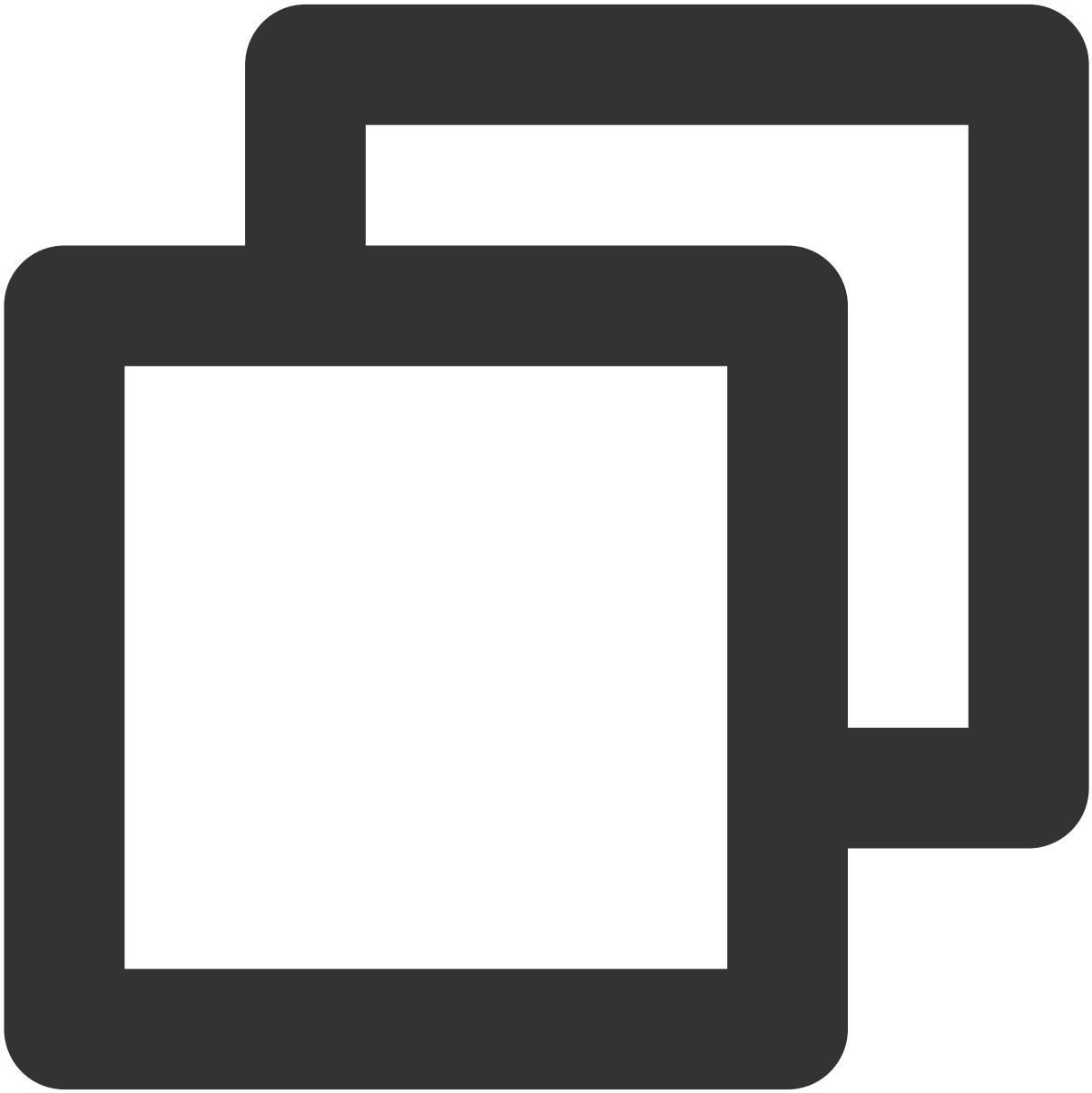


```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T18:47:18+0800",
        "EndTime": "2022-06-30T18:47:30+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp3",
            "Region": "ap-chongqing"
        },
```


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```
        "JobId": "j035aca66f86211ec8a5a87e016101404",
        "Message": "SUCCESS",
        "Operation": {
            "Output": {
                "Bucket": "test-123456789",
                "Object": "output/nr.wav",
                "Region": "ap-chongqing"
            },
            "UserData": "This is my NoiseReduction job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T18:47:20+0800",
        "State": "Success",
        "Tag": "NoiseReduction"
    }
}
```


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Video Quality Scoring

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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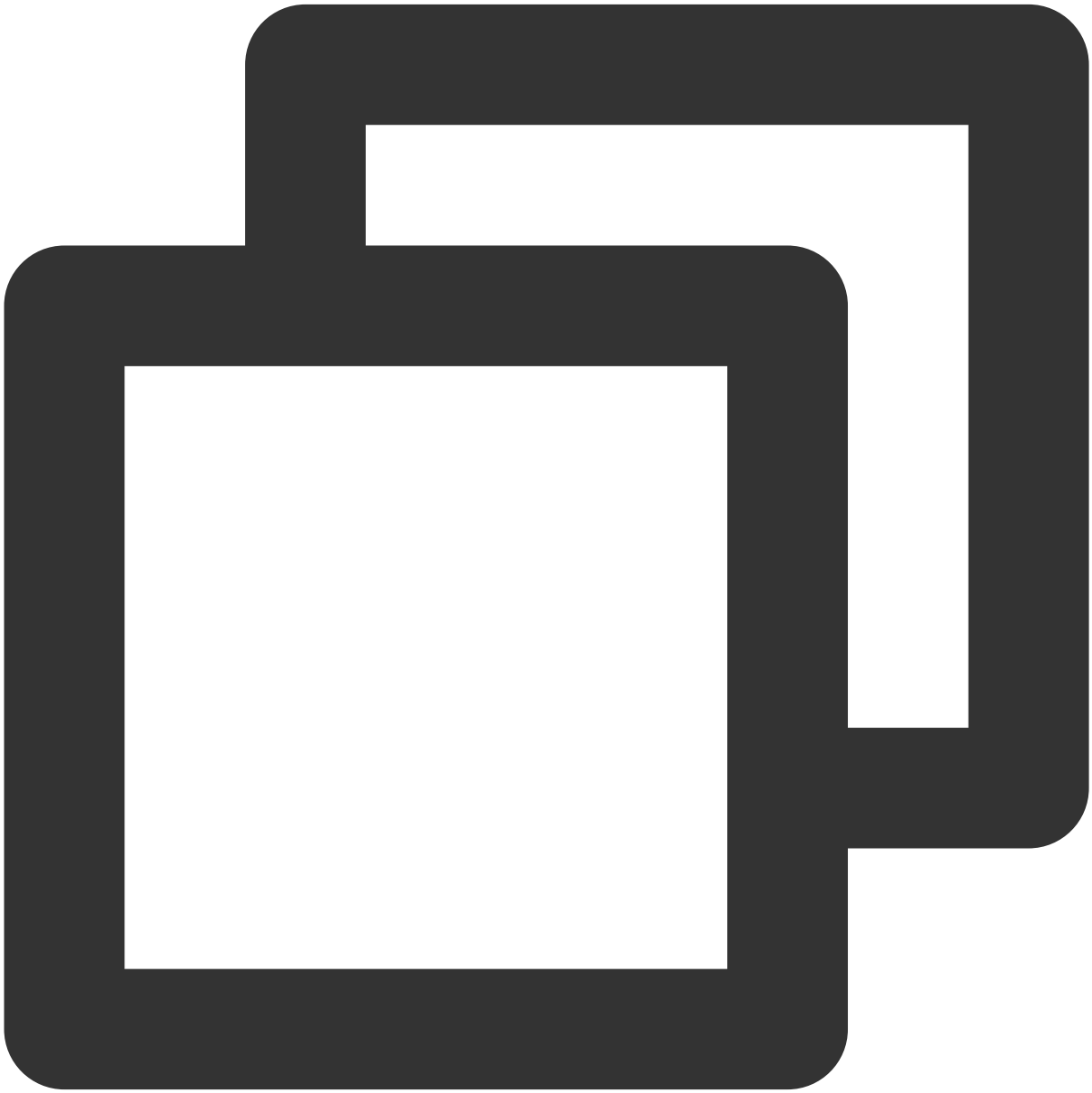

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:06:27+0800</CreationTime>
        <EndTime>2022-06-30T19:06:34+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>jb01fe2f2f86411ec9ca1073b78d316d3</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>834736</Bitrate>
                    <Duration>13.654</Duration>
                    <NumStream>1</NumStream>
                    <Size>1424687</Size>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>104047</Bitrate>
                        <Channel>2</Channel>
                        <CodecName>aac</CodecName>
                        <Duration>13.653</Duration>
                        <Index>1</Index>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>25.000</AvgFps>
                        <Bitrate>763774</Bitrate>
                        <CodecName>h264</CodecName>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>12.960</Duration>
                        <Fps>25.000</Fps>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Level>1.000</Level>
                        <NumFrames>324</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <Rotation>0</Rotation>
                        <StartTime>0.000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile/>
            </MediaResult>
            <QualityEstimate>
```

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```
                <Score>6.460358</Score>
            </QualityEstimate>
            <UserData>This is my QualityEstimate job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:06:28+0800</StartTime>
        <State>Success</State>
        <Tag>QualityEstimate</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the video quality analysis job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String

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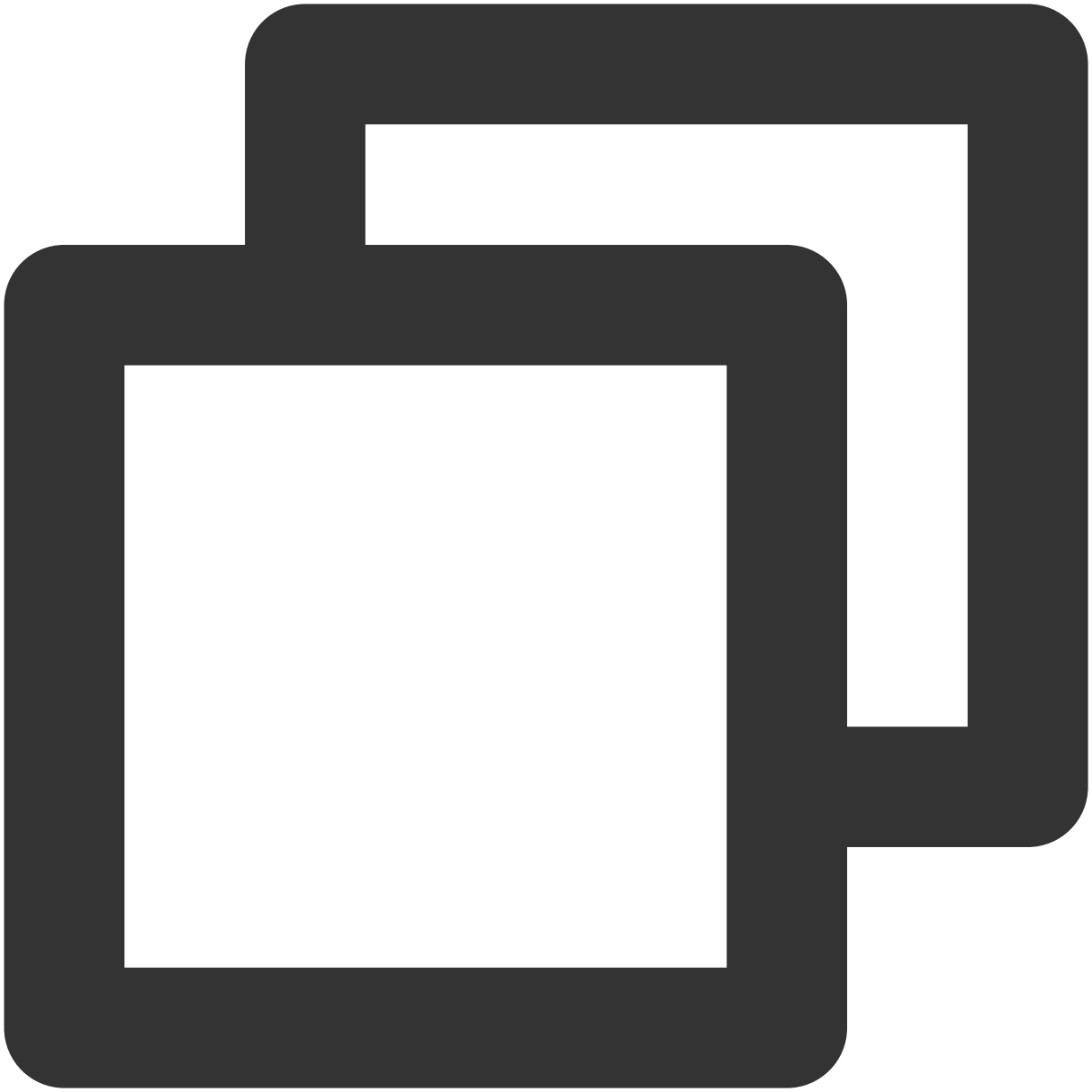
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API



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```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:06:27+0800</CreationTime>
        <EndTime>2022-06-30T19:06:34+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <JobId>jb01fe2f2f86411ec9ca1073b78d316d3</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>834736</Bitrate>
                    <Duration>13.654</Duration>
                    <NumStream>1</NumStream>
                    <Size>1424687</Size>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>104047</Bitrate>
                        <Channel>2</Channel>
                        <CodecName>aac</CodecName>
                        <Duration>13.653</Duration>
                        <Index>1</Index>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>25.000</AvgFps>
                        <Bitrate>763774</Bitrate>
                        <CodecName>h264</CodecName>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>12.960</Duration>
                        <Fps>25.000</Fps>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Level>1.000</Level>
                        <NumFrames>324</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
```

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```
                        <Rotation>0</Rotation>
                        <StartTime>0.000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile/>
            </MediaResult>
            <QualityEstimate>
                <Score>6.460358</Score>
            </QualityEstimate>
            <UserData>This is my QualityEstimate job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:06:28+0800</StartTime>
        <State>Success</State>
        <Tag>QualityEstimate</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback in JSON format triggered by a job API

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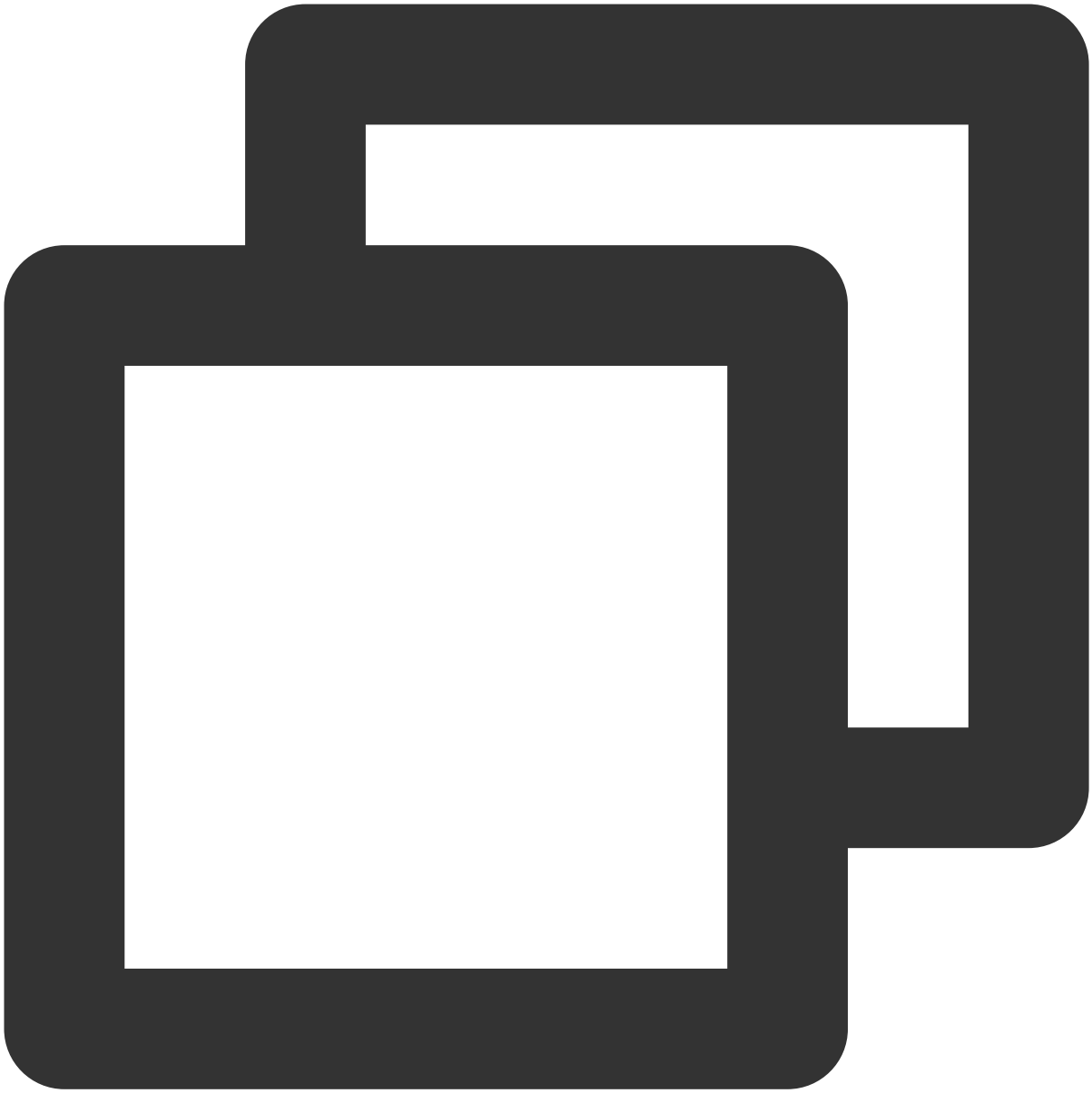


```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T19:06:27+0800",
        "EndTime": "2022-06-30T19:06:34+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing"
        },
```


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```
        "JobId": "jb01fe2f2f86411ec9ca1073b78d316d3",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "834736",
                    "Duration": "13.654",
                    "NumStream": "1",
                    "Size": "1424687"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "104047",
                        "Channel": "2",
                        "CodecName": "aac",
                        "Duration": "13.653",
                        "Index": "1",
                        "SampleFmt": "fltp",
                        "SampleRate": "44100"
                    },
                    "Video": {
                        "AvgFps": "25.000",
                        "Bitrate": "763774",
                        "CodecName": "h264",
                        "ColorPrimaries": "unknown",
                        "ColorRange": "tv",
                        "ColorTransfer": "smpte170m",
                        "Duration": "12.960",
                        "Fps": "25.000",
                        "Height": "960",
                        "Index": "0",
                        "Level": "1.000",
                        "NumFrames": "324",
                        "PixFormat": "yuv420p",
                        "Profile": "High",
                        "Rotation": "0",
                        "StartTime": "0.000",
                        "Timebase": "1/12800",
                        "Width": "544"
                    }
                }
            },
            "MediaResult": {

            },
            "QualityEstimate": {
                "Score": "6.460358"
            },
```


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```
            "UserData": "This is my QualityEstimate job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T19:06:28+0800",
        "State": "Success",
        "Tag": "QualityEstimate"
    }
}
```


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SDRtoHDR

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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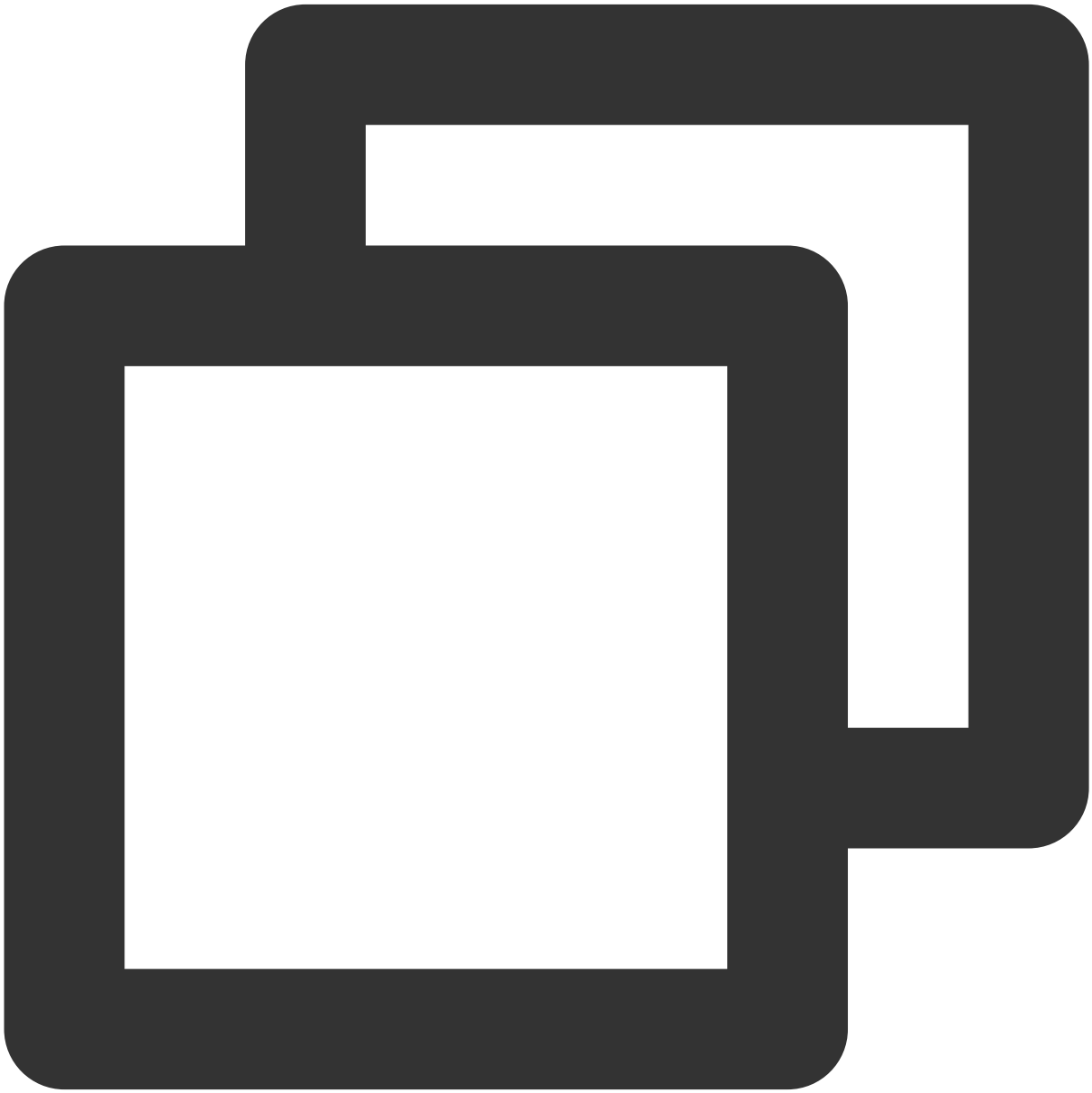

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:20:45+0800</CreationTime>
        <EndTime>2022-06-30T19:21:06+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>jafa709a2f86611ec9452c1c27f56a659</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>9514.268000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>16238478</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.652993</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>24.922840</AvgFps>
                        <Bitrate>9878.900000</Bitrate>
                        <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                        <CodecName>hevc</CodecName>
                        <CodecTag>0x31637668</CodecTag>
                        <CodecTagString>hvc1</CodecTagString>
                        <CodecTimeBase>1/12800</CodecTimeBase>
                        <ColorPrimaries>bt2020</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte2084</ColorTransfer>
                        <Duration>12.960000</Duration>
                        <FieldOrder>progressive</FieldOrder>
                        <Fps>25.000000</Fps>
```

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```
                        <HasBFrame>2</HasBFrame>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>93</Level>
                        <NumFrames>323</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>Main</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>ed8b5615687d789d6293bd58fa1ea1c0</Md5>
                        <ObjectName>output/sdr2hdr.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/sdr2hdr.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/sdr2hdr.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <SDRtoHDR>
                <HdrMode>HDR10</HdrMode>
            </SDRtoHDR>
            <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
            <UserData>This is my SDRtoHDR job.</UserData>
            <WatermarkTemplateId>t143ae6e040af6431aa772c9ec3f0a3f36</WatermarkTempl
            <WatermarkTemplateId>t12a74d11687d444deba8a6cc52051ac27</WatermarkTempl
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:20:46+0800</StartTime>
        <State>Success</State>
        <Tag>SDRtoHDR</Tag>
    </JobsDetail>
</Response>
```


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The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the SDR-to-HDR job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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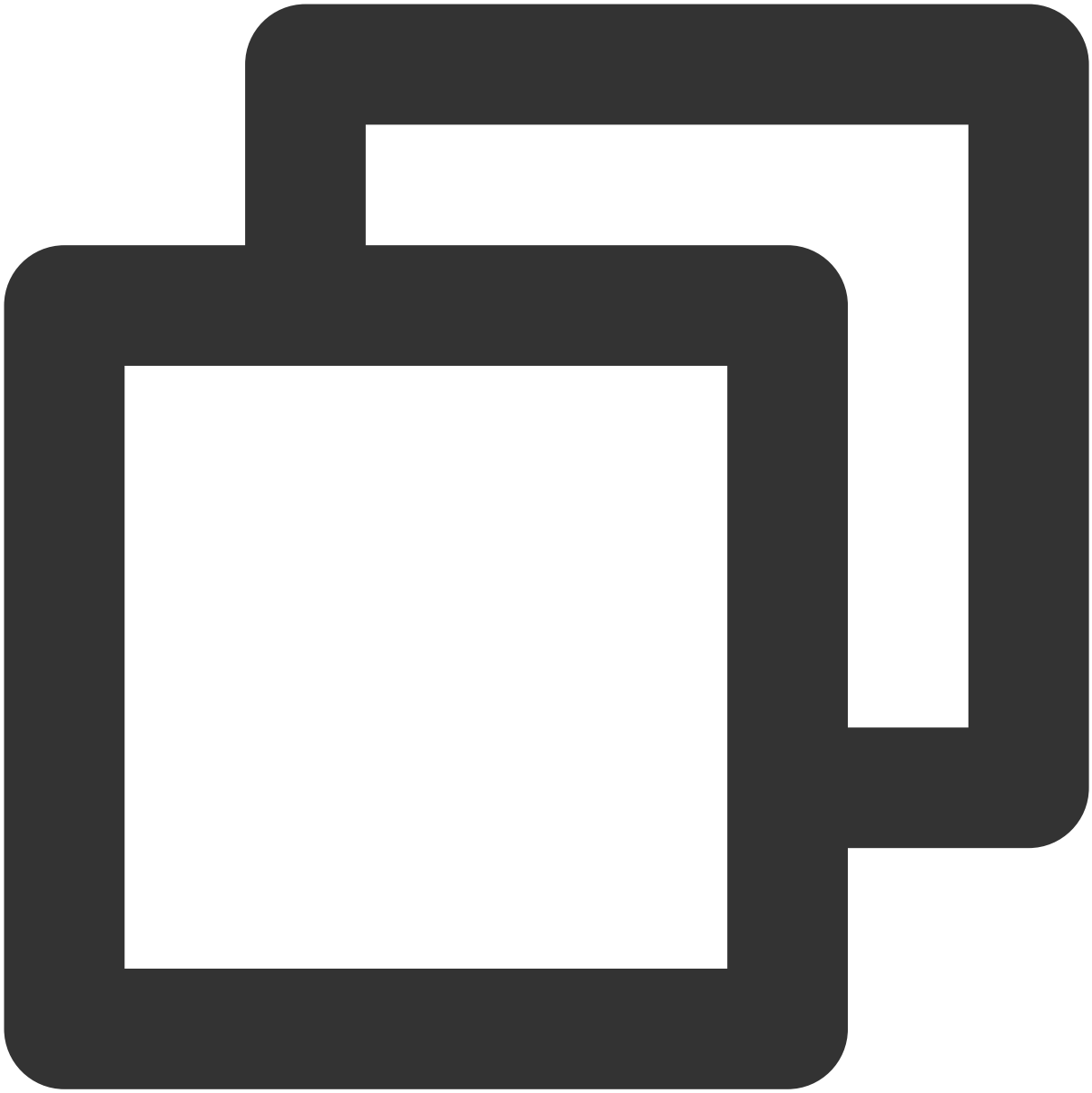

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:20:45+0800</CreationTime>
        <EndTime>2022-06-30T19:21:06+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>jafa709a2f86611ec9452c1c27f56a659</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>9514.268000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>16238478</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.652993</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>24.922840</AvgFps>
                        <Bitrate>9878.900000</Bitrate>
                        <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                        <CodecName>hevc</CodecName>
                        <CodecTag>0x31637668</CodecTag>
                        <CodecTagString>hvc1</CodecTagString>
                        <CodecTimeBase>1/12800</CodecTimeBase>
                        <ColorPrimaries>bt2020</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte2084</ColorTransfer>
                        <Duration>12.960000</Duration>
                        <FieldOrder>progressive</FieldOrder>
                        <Fps>25.000000</Fps>
```

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```
                        <HasBFrame>2</HasBFrame>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>93</Level>
                        <NumFrames>323</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>Main</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>ed8b5615687d789d6293bd58fa1ea1c0</Md5>
                        <ObjectName>output/sdr2hdr.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/sdr2hdr.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/sdr2hdr.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <SDRtoHDR>
                <HdrMode>HDR10</HdrMode>
            </SDRtoHDR>
            <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
            <UserData>This is my SDRtoHDR job.</UserData>
            <WatermarkTemplateId>t143ae6e040af6431aa772c9ec3f0a3f36</WatermarkTempl
            <WatermarkTemplateId>t12a74d11687d444deba8a6cc52051ac27</WatermarkTempl
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:20:46+0800</StartTime>
        <State>Success</State>
        <Tag>SDRtoHDR</Tag>
    </JobsDetail>
</Response>
```


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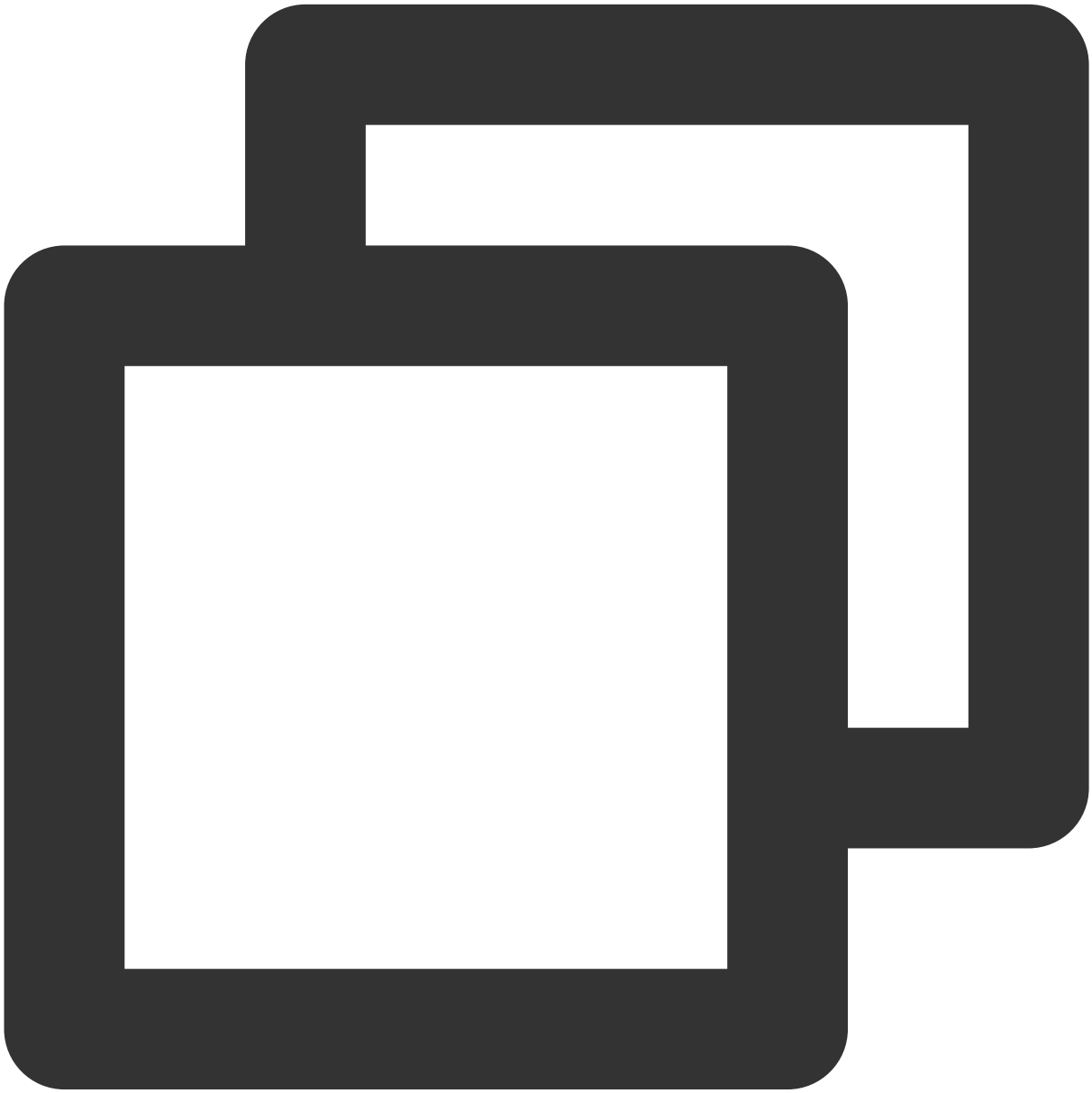
Sample 2: Job callback triggered by a workflow



```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:20:45+0800</CreationTime>
        <EndTime>2022-06-30T19:21:06+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
```

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```
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>jafa709a2f86611ec9452c1c27f56a659</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>9514.268000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>16238478</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.652993</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
```

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```
                    <SampleRate>44100</SampleRate>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/44100</Timebase>
                </Audio>
                <Subtitle/>
                <Video>
                    <AvgFps>24.922840</AvgFps>
                    <Bitrate>9878.900000</Bitrate>
                    <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                    <CodecName>hevc</CodecName>
                    <CodecTag>0x31637668</CodecTag>
                    <CodecTagString>hvc1</CodecTagString>
                    <CodecTimeBase>1/12800</CodecTimeBase>
                    <ColorPrimaries>bt2020</ColorPrimaries>
                    <ColorRange>tv</ColorRange>
                    <ColorTransfer>smpte2084</ColorTransfer>
                    <Duration>12.960000</Duration>
                    <FieldOrder>progressive</FieldOrder>
                    <Fps>25.000000</Fps>
                    <HasBFrame>2</HasBFrame>
                    <Height>960</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>93</Level>
                    <NumFrames>323</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>Main</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12800</Timebase>
                    <Width>544</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>ed8b5615687d789d6293bd58fa1ea1c0</Md5>
                    <ObjectName>output/sdr2hdr.mp4</ObjectName>
                </Md5Info>
                <ObjectName>output/sdr2hdr.mp4</ObjectName>
                <ObjectPrefix/>
                <Region>ap-chongqing</Region>
            </OutputFile>
        </MediaResult>
```


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```
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/sdr2hdr.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <SDRtoHDR>
                <HdrMode>HDR10</HdrMode>
            </SDRtoHDR>
            <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
            <UserData>This is my SDRtoHDR job.</UserData>
            <WatermarkTemplateId>t143ae6e040af6431aa772c9ec3f0a3f36</WatermarkTempl
            <WatermarkTemplateId>t12a74d11687d444deba8a6cc52051ac27</WatermarkTempl
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:20:46+0800</StartTime>
        <State>Success</State>
        <Tag>SDRtoHDR</Tag>
        <Workflow>
            <Name>SDRtoHDR_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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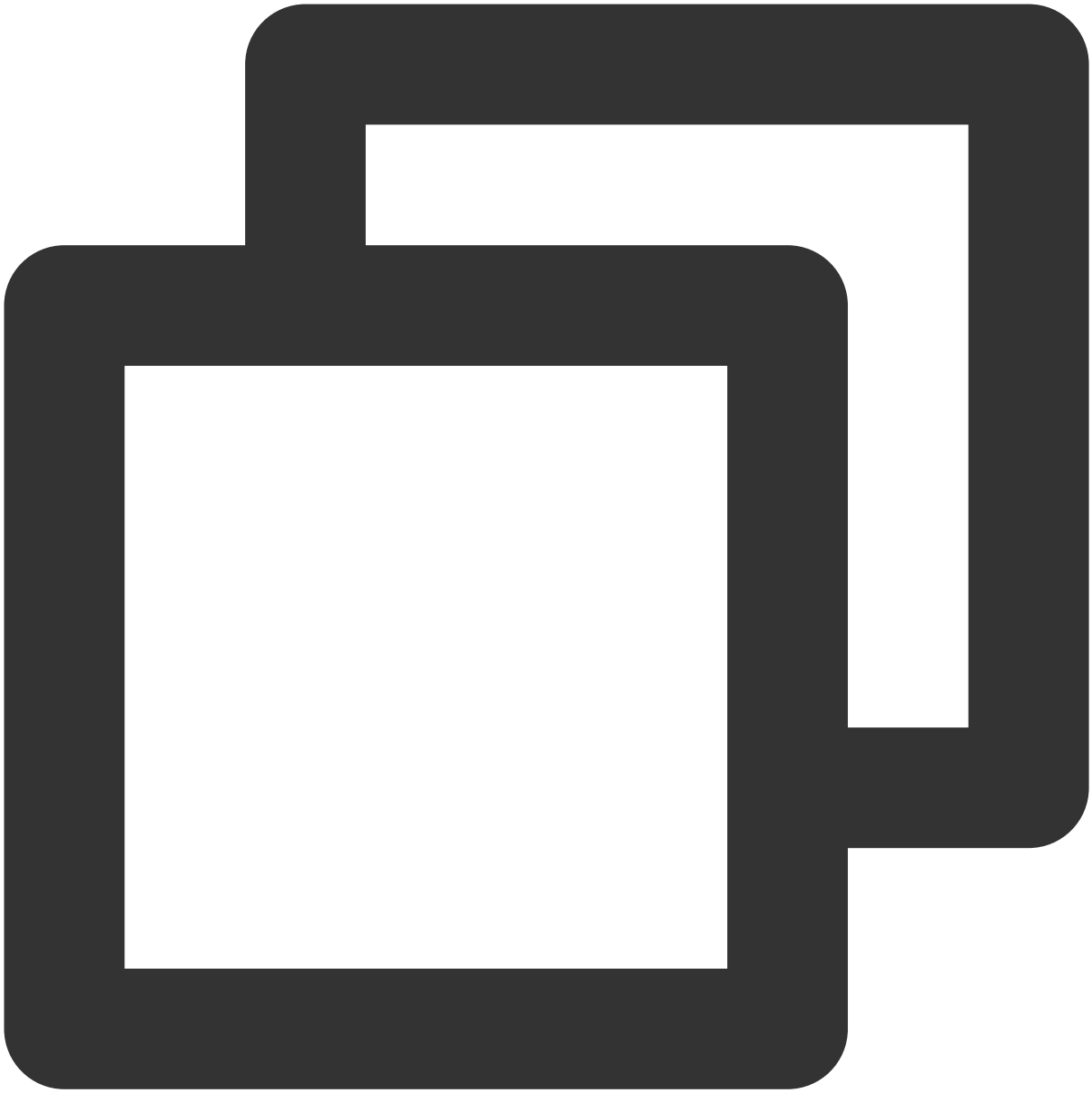


```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T19:20:45+0800",
        "EndTime": "2022-06-30T19:21:06+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```


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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "jafa709a2f86611ec9452c1c27f56a659",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "9514.268000",
                    "Duration": "13.654000",
                    "FormatLongName": "QuickTime / MOV",
                    "FormatName": "mov,mp4,m4a,3gp,3g2,mj2",
                    "NumProgram": "0",
                    "NumStream": "2",
                    "Size": "16238478",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "128.726000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/44100",
                        "Duration": "13.652993",
                        "Index": "1",
                        "Language": "und",
                        "SampleFmt": "fltp",
                        "SampleRate": "44100",
                        "StartTime": "0.000000",
                        "Timebase": "1/44100"
```


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```
                },
                "Video": {
                    "AvgFps": "24.922840",
                    "Bitrate": "9878.900000",
                    "CodecLongName": "H.265 / HEVC (High Efficiency Video Codin
                    "CodecName": "hevc",
                    "CodecTag": "0x31637668",
                    "CodecTagString": "hvc1",
                    "CodecTimeBase": "1/12800",
                    "ColorPrimaries": "bt2020",
                    "ColorRange": "tv",
                    "ColorTransfer": "smpte2084",
                    "Duration": "12.960000",
                    "FieldOrder": "progressive",
                    "Fps": "25.000000",
                    "HasBFrame": "2",
                    "Height": "960",
                    "Index": "0",
                    "Language": "und",
                    "Level": "93",
                    "NumFrames": "323",
                    "PixFormat": "yuv420p",
                    "Profile": "Main",
                    "RefFrames": "1",
                    "Rotation": "0.000000",
                    "StartTime": "0.000000",
                    "Timebase": "1/12800",
                    "Width": "544"
                }
            }
        },
        "MediaResult": {
            "OutputFile": {
                "Bucket": "test-123456789",
                "Md5Info": {
                    "Md5": "ed8b5615687d789d6293bd58fa1ea1c0",
                    "ObjectName": "output/sdr2hdr.mp4"
                },
                "ObjectName": "output/sdr2hdr.mp4",
                "Region": "ap-chongqing"
            }
        },
        "Output": {
            "Bucket": "test-123456789",
            "Object": "output/sdr2hdr.mp4",
            "Region": "ap-chongqing"
        },
```


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```
            "SDRtoHDR": {
                "HdrMode": "HDR10"
            },
            "TranscodeTemplateId": "t156c107210e7243c5817354565d81b578",
            "UserData": "This is my SDRtoHDR job.",
            "WatermarkTemplateId": [
                "t143ae6e040af6431aa772c9ec3f0a3f36",
                "t12a74d11687d444deba8a6cc52051ac27"
            ]
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T19:20:46+0800",
        "State": "Success",
        "Tag": "SDRtoHDR",
        "Workflow": {
            "Name": "SDRtoHDR_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Remuxing (Audio/Video Segmentation)

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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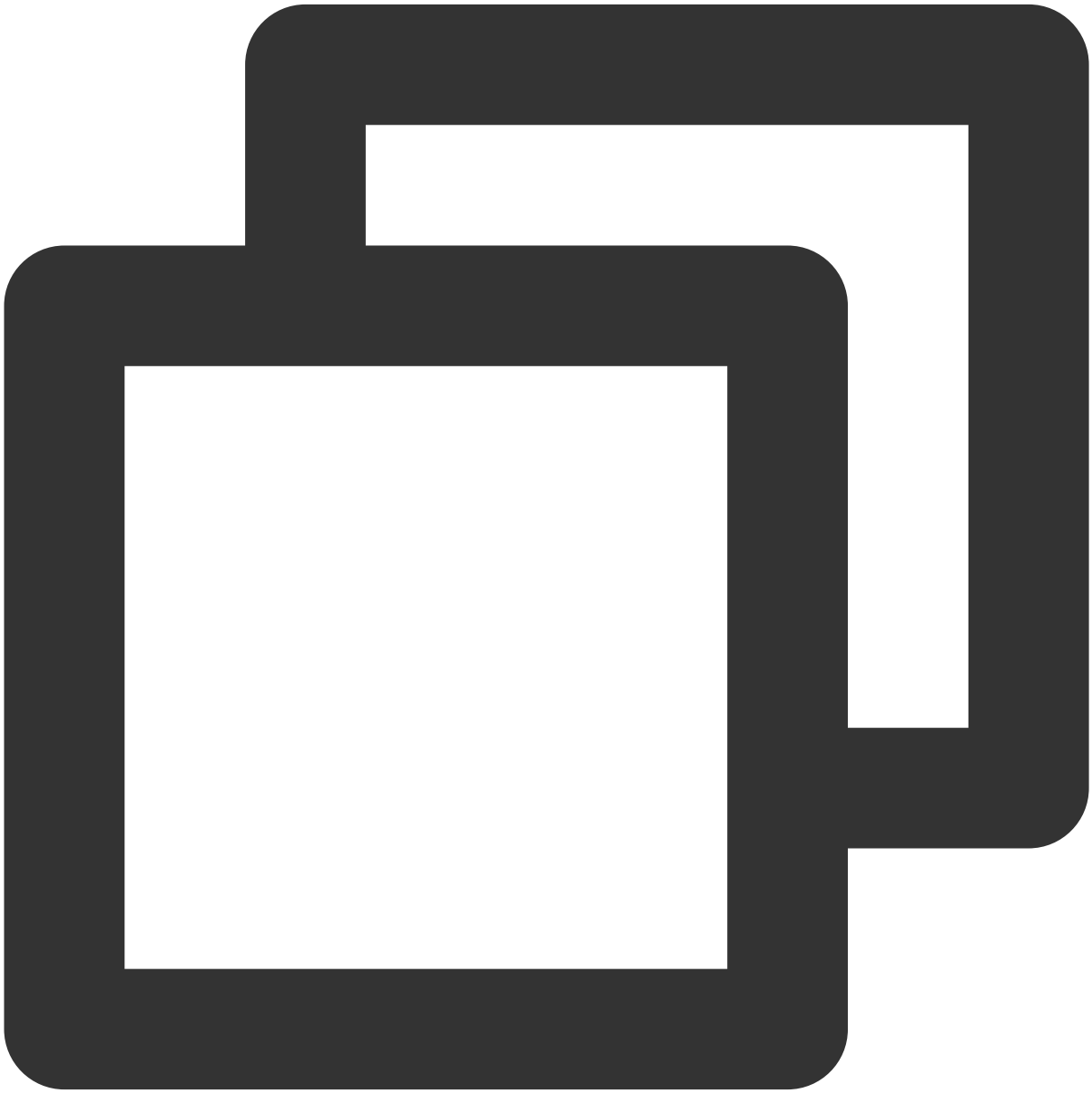

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:14:31+0800</CreationTime>
        <EndTime>2022-06-30T19:14:36+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>jd0c0da74f86511ec8a5a87e016101404</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>2629.749000</Bitrate>
                    <Duration>215.680000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>70898041</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>256.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/48000</CodecTimeBase>
                        <Duration>215.637000</Duration>
                        <Index>1</Index>
                        <Language>eng</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>48000</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/48000</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>24.000000</AvgFps>
                        <Bitrate>2369.296000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/12288</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Duration>215.583333</Duration>
                        <Fps>24.000000</Fps>
                        <HasBFrame>2</HasBFrame>
```

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```
                    <Height>1080</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>40</Level>
                    <NumFrames>5174</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>High</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12288</Timebase>
                    <Width>1920</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>59a4edd95c6ddca43277d82cf33edc0d</Md5>
                    <ObjectName>output/segment-0</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>7fdacd7f2e2dbdc1dc3ccc00f96893b5</Md5>
                    <ObjectName>output/segment-1</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>4c377ddb6f65021f6741dbd45bbff654</Md5>
                    <ObjectName>output/segment-2</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>59317dbc9db6d4d6fb723e3005809c01</Md5>
                    <ObjectName>output/segment-3</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>a81091e57005eece211b5f60bfbddea1</Md5>
                    <ObjectName>output/segment-4</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>7b87e88264a983a06b17558c8a3a2bd8</Md5>
                    <ObjectName>output/segment-5</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>607b2abc29ed11ad1d2f678b594c6ffa</Md5>
                    <ObjectName>output/segment-6</ObjectName>
                </Md5Info>
                <Md5Info>
```

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```
                        <Md5>4fe2d33dc9d08a5ea9d5d6db0f724008</Md5>
                        <ObjectName>output/segment-7</ObjectName>
                    </Md5Info>
                    <Md5Info>
                        <Md5>a84dd4f738ce81f4e3da55b393b2fae4</Md5>
                        <ObjectName>output/segment-8</ObjectName>
                    </Md5Info>
                    <ObjectName>0</ObjectName>
                    <ObjectName>1</ObjectName>
                    <ObjectName>2</ObjectName>
                    <ObjectName>3</ObjectName>
                    <ObjectName>4</ObjectName>
                    <ObjectName>5</ObjectName>
                    <ObjectName>6</ObjectName>
                    <ObjectName>7</ObjectName>
                    <ObjectName>8</ObjectName>
                    <ObjectPrefix>output/segment-</ObjectPrefix>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/segment-${number}</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <Segment>
                <Duration>25</Duration>
                <Format>mp4</Format>
                <HlsEncrypt>
                    <IsHlsEncrypt>false</IsHlsEncrypt>
                    <UriKey/>
                </HlsEncrypt>
            </Segment>
            <UserData>This is my Segment job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:14:32+0800</StartTime>
        <State>Success</State>
        <Tag>Segment</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the remuxing job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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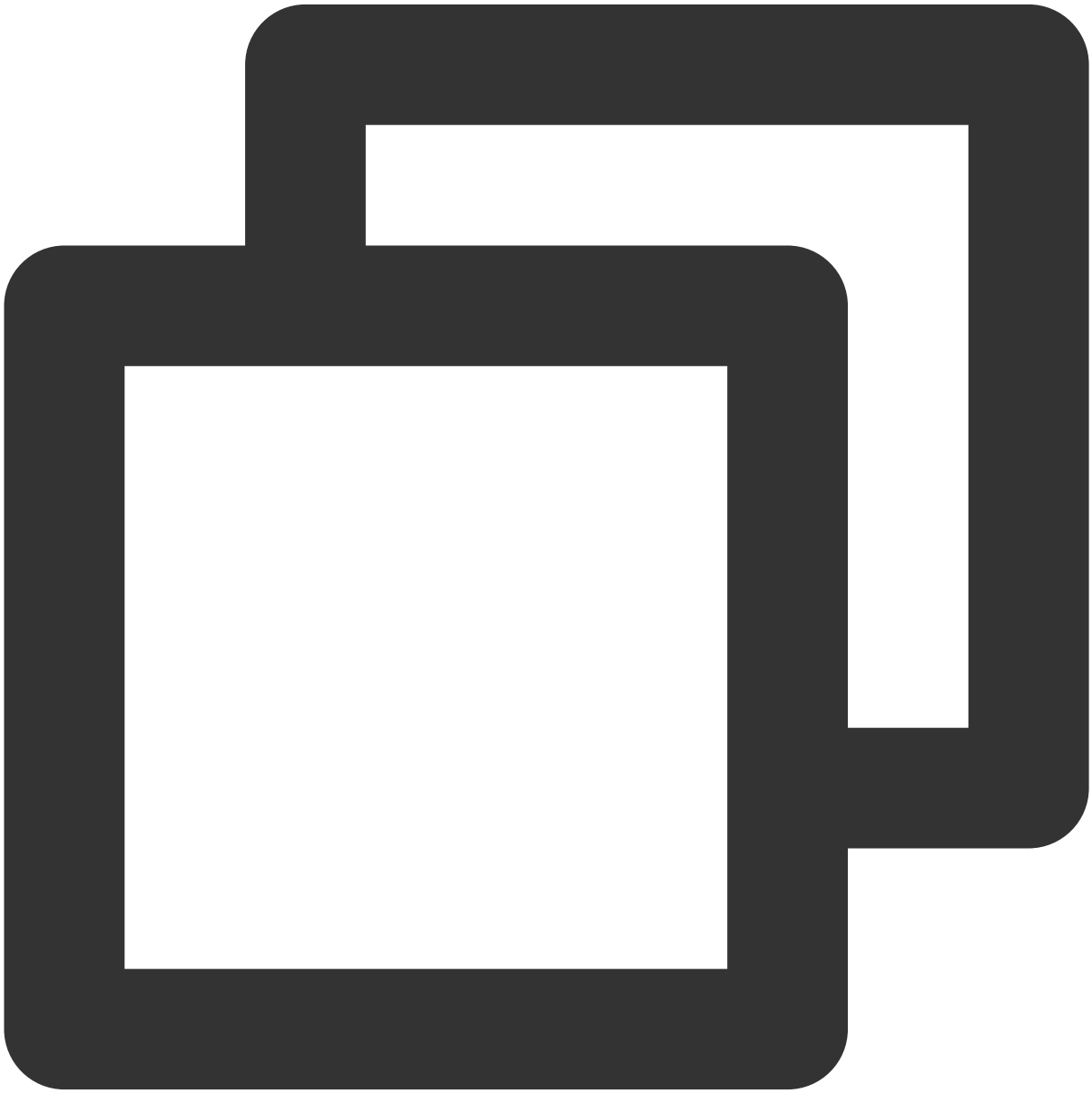

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:14:31+0800</CreationTime>
        <EndTime>2022-06-30T19:14:36+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>jd0c0da74f86511ec8a5a87e016101404</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>2629.749000</Bitrate>
                    <Duration>215.680000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>70898041</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>256.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/48000</CodecTimeBase>
                        <Duration>215.637000</Duration>
                        <Index>1</Index>
                        <Language>eng</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>48000</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/48000</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>24.000000</AvgFps>
                        <Bitrate>2369.296000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/12288</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Duration>215.583333</Duration>
                        <Fps>24.000000</Fps>
                        <HasBFrame>2</HasBFrame>
```

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```
                    <Height>1080</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>40</Level>
                    <NumFrames>5174</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>High</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12288</Timebase>
                    <Width>1920</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>59a4edd95c6ddca43277d82cf33edc0d</Md5>
                    <ObjectName>output/segment-0</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>7fdacd7f2e2dbdc1dc3ccc00f96893b5</Md5>
                    <ObjectName>output/segment-1</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>4c377ddb6f65021f6741dbd45bbff654</Md5>
                    <ObjectName>output/segment-2</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>59317dbc9db6d4d6fb723e3005809c01</Md5>
                    <ObjectName>output/segment-3</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>a81091e57005eece211b5f60bfbddea1</Md5>
                    <ObjectName>output/segment-4</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>7b87e88264a983a06b17558c8a3a2bd8</Md5>
                    <ObjectName>output/segment-5</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>607b2abc29ed11ad1d2f678b594c6ffa</Md5>
                    <ObjectName>output/segment-6</ObjectName>
                </Md5Info>
                <Md5Info>
```

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```
                        <Md5>4fe2d33dc9d08a5ea9d5d6db0f724008</Md5>
                        <ObjectName>output/segment-7</ObjectName>
                    </Md5Info>
                    <Md5Info>
                        <Md5>a84dd4f738ce81f4e3da55b393b2fae4</Md5>
                        <ObjectName>output/segment-8</ObjectName>
                    </Md5Info>
                    <ObjectName>0</ObjectName>
                    <ObjectName>1</ObjectName>
                    <ObjectName>2</ObjectName>
                    <ObjectName>3</ObjectName>
                    <ObjectName>4</ObjectName>
                    <ObjectName>5</ObjectName>
                    <ObjectName>6</ObjectName>
                    <ObjectName>7</ObjectName>
                    <ObjectName>8</ObjectName>
                    <ObjectPrefix>output/segment-</ObjectPrefix>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/segment-${number}</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <Segment>
                <Duration>25</Duration>
                <Format>mp4</Format>
                <HlsEncrypt>
                    <IsHlsEncrypt>false</IsHlsEncrypt>
                    <UriKey/>
                </HlsEncrypt>
            </Segment>
            <UserData>This is my Segment job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:14:32+0800</StartTime>
        <State>Success</State>
        <Tag>Segment</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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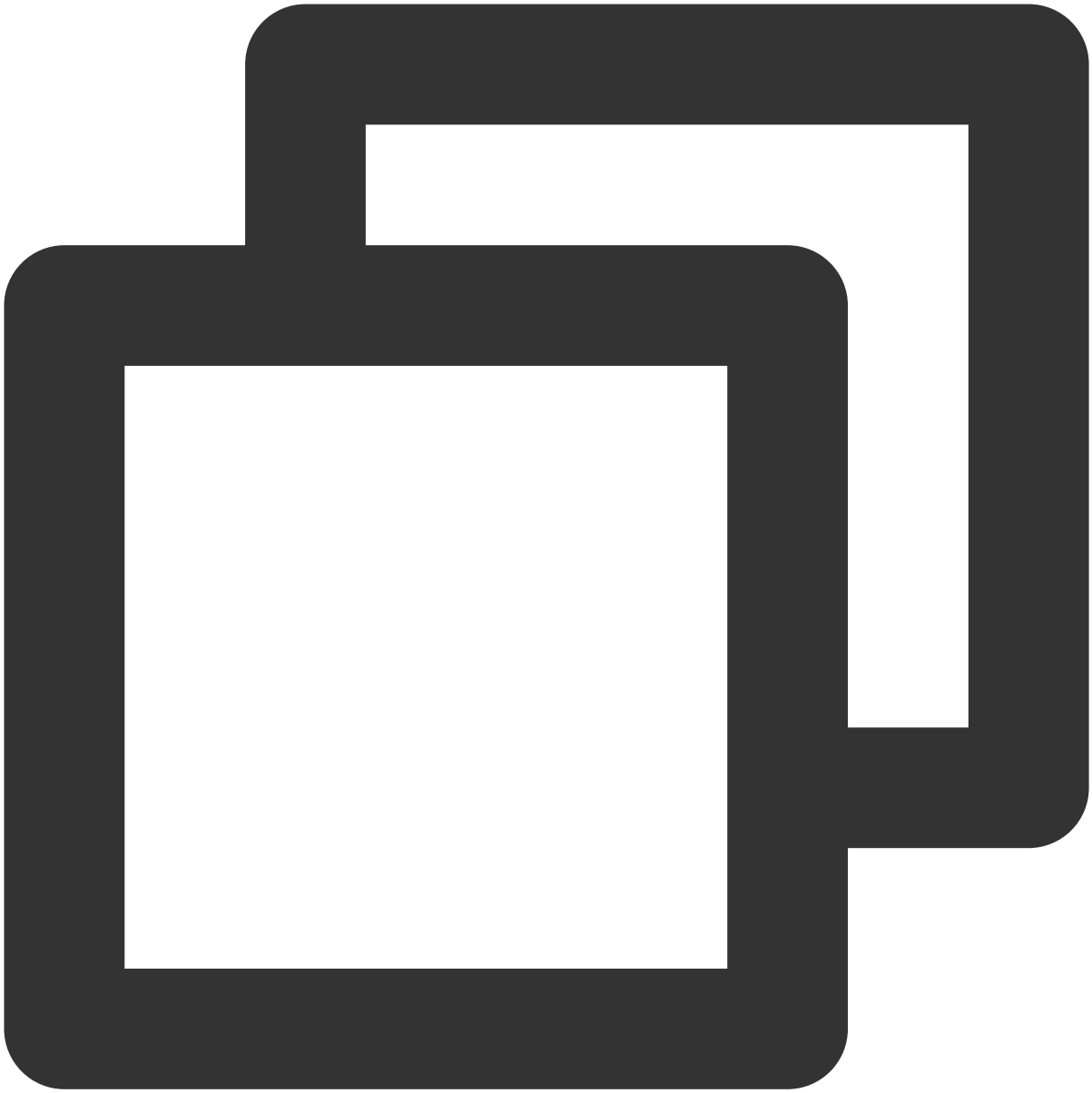

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:14:31+0800</CreationTime>
        <EndTime>2022-06-30T19:14:36+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>jd0c0da74f86511ec8a5a87e016101404</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>2629.749000</Bitrate>
                    <Duration>215.680000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>70898041</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>256.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/48000</CodecTimeBase>
                        <Duration>215.637000</Duration>
                        <Index>1</Index>
                        <Language>eng</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>48000</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/48000</Timebase>
```

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```
                </Audio>
                <Subtitle/>
                <Video>
                    <AvgFps>24.000000</AvgFps>
                    <Bitrate>2369.296000</Bitrate>
                    <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                    <CodecName>h264</CodecName>
                    <CodecTag>0x31637661</CodecTag>
                    <CodecTagString>avc1</CodecTagString>
                    <CodecTimeBase>1/12288</CodecTimeBase>
                    <ColorPrimaries>unknown</ColorPrimaries>
                    <ColorRange>unknown</ColorRange>
                    <ColorTransfer>unknown</ColorTransfer>
                    <Duration>215.583333</Duration>
                    <Fps>24.000000</Fps>
                    <HasBFrame>2</HasBFrame>
                    <Height>1080</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>40</Level>
                    <NumFrames>5174</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>High</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12288</Timebase>
                    <Width>1920</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>59a4edd95c6ddca43277d82cf33edc0d</Md5>
                    <ObjectName>output/segment-0</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>7fdacd7f2e2dbdc1dc3ccc00f96893b5</Md5>
                    <ObjectName>output/segment-1</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>4c377ddb6f65021f6741dbd45bbff654</Md5>
                    <ObjectName>output/segment-2</ObjectName>
                </Md5Info>
                <Md5Info>
```


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```
                    <Md5>59317dbc9db6d4d6fb723e3005809c01</Md5>
                    <ObjectName>output/segment-3</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>a81091e57005eece211b5f60bfbddea1</Md5>
                    <ObjectName>output/segment-4</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>7b87e88264a983a06b17558c8a3a2bd8</Md5>
                    <ObjectName>output/segment-5</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>607b2abc29ed11ad1d2f678b594c6ffa</Md5>
                    <ObjectName>output/segment-6</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>4fe2d33dc9d08a5ea9d5d6db0f724008</Md5>
                    <ObjectName>output/segment-7</ObjectName>
                </Md5Info>
                <Md5Info>
                    <Md5>a84dd4f738ce81f4e3da55b393b2fae4</Md5>
                    <ObjectName>output/segment-8</ObjectName>
                </Md5Info>
                <ObjectName>0</ObjectName>
                <ObjectName>1</ObjectName>
                <ObjectName>2</ObjectName>
                <ObjectName>3</ObjectName>
                <ObjectName>4</ObjectName>
                <ObjectName>5</ObjectName>
                <ObjectName>6</ObjectName>
                <ObjectName>7</ObjectName>
                <ObjectName>8</ObjectName>
                <ObjectPrefix>output/segment-</ObjectPrefix>
                <Region>ap-chongqing</Region>
            </OutputFile>
        </MediaResult>
        <Output>
            <Bucket>test-123456789</Bucket>
            <Object>output/segment-${number}</Object>
            <Region>ap-chongqing</Region>
        </Output>
        <Segment>
            <Duration>25</Duration>
            <Format>mp4</Format>
            <HlsEncrypt>
                <IsHlsEncrypt>false</IsHlsEncrypt>
                <UriKey/>
```

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```
                </HlsEncrypt>
            </Segment>
            <UserData>This is my Segment job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:14:32+0800</StartTime>
        <State>Success</State>
        <Tag>Segment</Tag>
        <Workflow>
            <Name>Segment_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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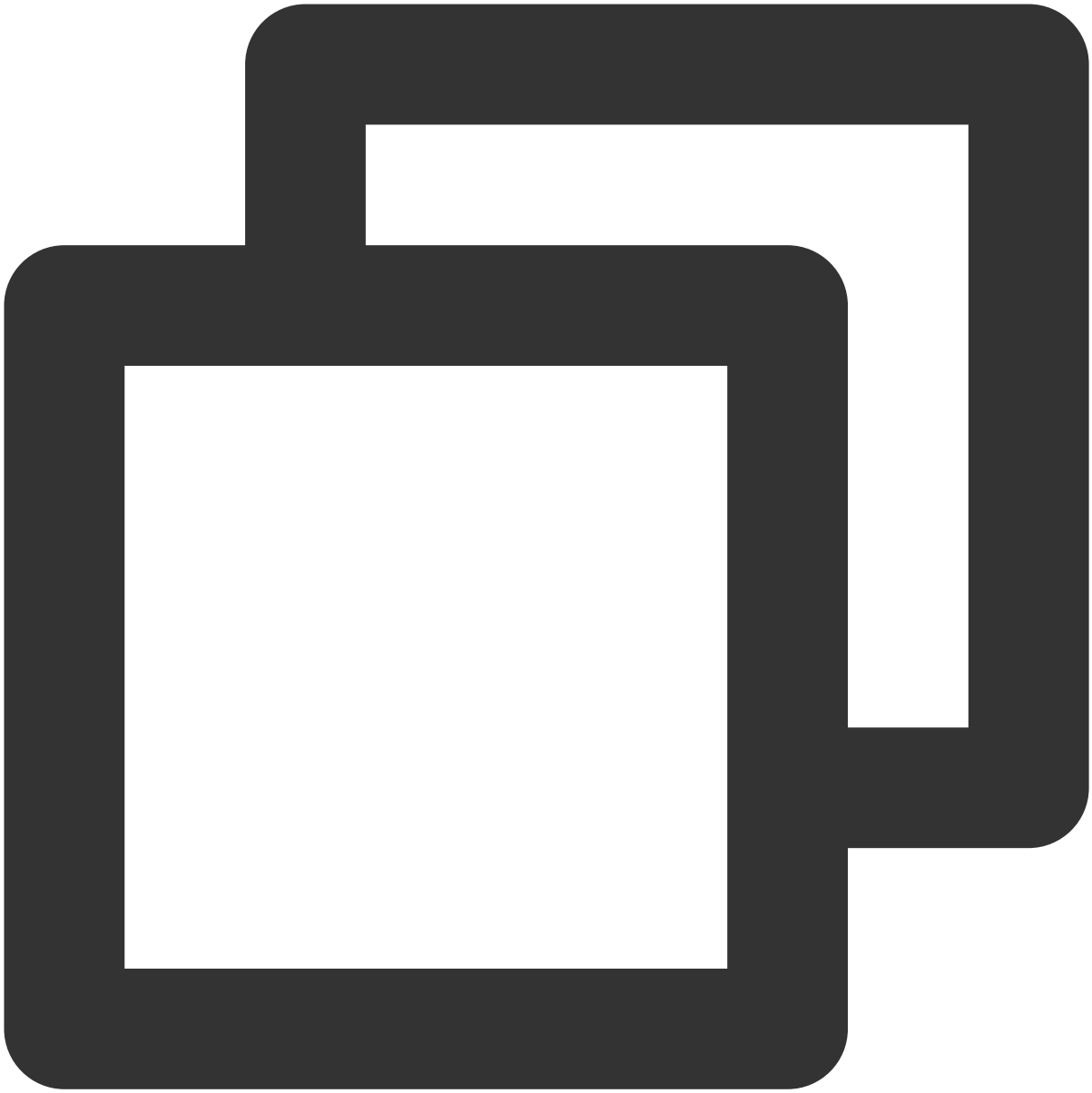

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T19:14:31+0800",
        "EndTime": "2022-06-30T19:14:36+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```

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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "jd0c0da74f86511ec8a5a87e016101404",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "2629.749000",
                    "Duration": "215.680000",
                    "FormatLongName": "QuickTime / MOV",
                    "FormatName": "mov,mp4,m4a,3gp,3g2,mj2",
                    "NumProgram": "0",
                    "NumStream": "2",
                    "Size": "70898041",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "256.000000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/48000",
                        "Duration": "215.637000",
                        "Index": "1",
                        "Language": "eng",
                        "SampleFmt": "fltp",
                        "SampleRate": "48000",
                        "StartTime": "0.000000",
                        "Timebase": "1/48000"
```


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```
                },
                "Video": {
                    "AvgFps": "24.000000",
                    "Bitrate": "2369.296000",
                    "CodecLongName": "H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
                    "CodecName": "h264",
                    "CodecTag": "0x31637661",
                    "CodecTagString": "avc1",
                    "CodecTimeBase": "1/12288",
                    "ColorPrimaries": "unknown",
                    "ColorRange": "unknown",
                    "ColorTransfer": "unknown",
                    "Duration": "215.583333",
                    "Fps": "24.000000",
                    "HasBFrame": "2",
                    "Height": "1080",
                    "Index": "0",
                    "Language": "und",
                    "Level": "40",
                    "NumFrames": "5174",
                    "PixFormat": "yuv420p",
                    "Profile": "High",
                    "RefFrames": "1",
                    "Rotation": "0.000000",
                    "StartTime": "0.000000",
                    "Timebase": "1/12288",
                    "Width": "1920"
                }
            }
        },
        "MediaResult": {
            "OutputFile": {
                "Bucket": "test-123456789",
                "Md5Info": [{
                        "Md5": "59a4edd95c6ddca43277d82cf33edc0d",
                        "ObjectName": "output/segment-0"
                    },
                    {
                        "Md5": "7fdacd7f2e2dbdc1dc3ccc00f96893b5",
                        "ObjectName": "output/segment-1"
                    },
                    {
                        "Md5": "4c377ddb6f65021f6741dbd45bbff654",
                        "ObjectName": "output/segment-2"
                    },
                    {
                        "Md5": "59317dbc9db6d4d6fb723e3005809c01",
```


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```
                        "ObjectName": "output/segment-3"
                    },
                    {
                        "Md5": "a81091e57005eece211b5f60bfbddea1",
                        "ObjectName": "output/segment-4"
                    },
                    {
                        "Md5": "7b87e88264a983a06b17558c8a3a2bd8",
                        "ObjectName": "output/segment-5"
                    },
                    {
                        "Md5": "607b2abc29ed11ad1d2f678b594c6ffa",
                        "ObjectName": "output/segment-6"
                    },
                    {
                        "Md5": "4fe2d33dc9d08a5ea9d5d6db0f724008",
                        "ObjectName": "output/segment-7"
                    },
                    {
                        "Md5": "a84dd4f738ce81f4e3da55b393b2fae4",
                        "ObjectName": "output/segment-8"
                    }
                ],
                "ObjectName": [
                    "0",
                    "1",
                    "2",
                    "3",
                    "4",
                    "5",
                    "6",
                    "7",
                    "8"
                ],
                "ObjectPrefix": "output/segment-",
                "Region": "ap-chongqing"
            }
        },
        "Output": {
            "Bucket": "test-123456789",
            "Object": "output/segment-${number}",
            "Region": "ap-chongqing"
        },
        "Segment": {
            "Duration": "25",
            "Format": "mp4",
            "HlsEncrypt": {
```

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```
                    "IsHlsEncrypt": "false"
                }
            },
            "UserData": "This is my Segment job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T19:14:32+0800",
        "State": "Success",
        "Tag": "Segment",
        "Workflow": {
            "Name": "Segment_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Intelligent Thumbnail

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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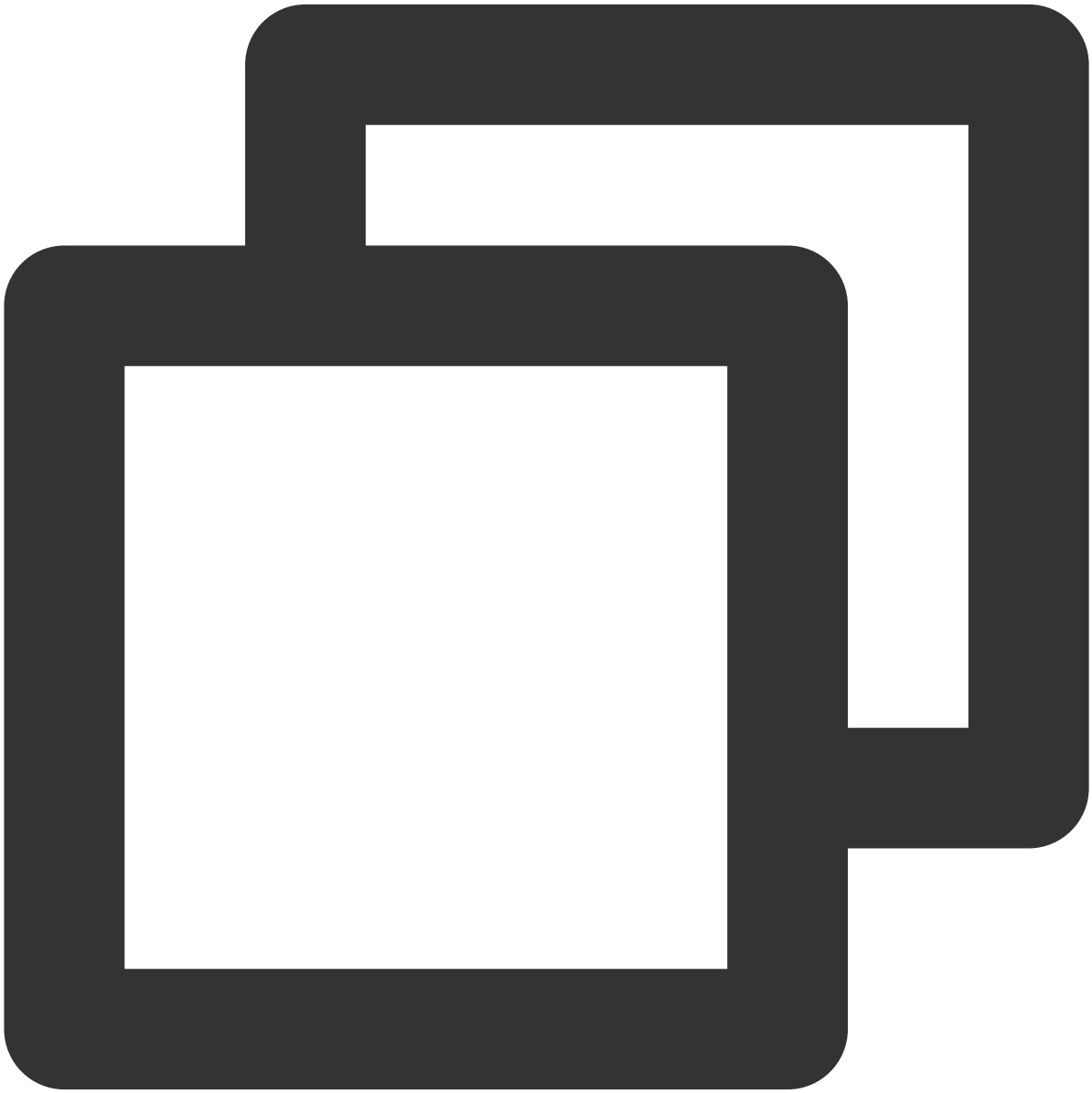

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:29:48+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j6842765cf84611ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format/>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info/>
                    <ObjectName>output/smartcover-0.jpg</ObjectName>
                    <ObjectName>output/smartcover-1.jpg</ObjectName>
                    <ObjectName>output/smartcover-2.jpg</ObjectName>
                    <ObjectName>output/smartcover-3.jpg</ObjectName>
                    <ObjectName>output/smartcover-4.jpg</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/smartcover-${Number}.jpg</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <SmartCover>
                <Count>5</Count>
                <DeleteDuplicates>false</DeleteDuplicates>
                <Format>jpg</Format>
                <Height>960</Height>
                <Width>1280</Width>
            </SmartCover>
            <UserData>This is my SmartCover job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:43+0800</StartTime>
        <State>Success</State>
        <Tag>SmartCover</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the intelligent thumbnail job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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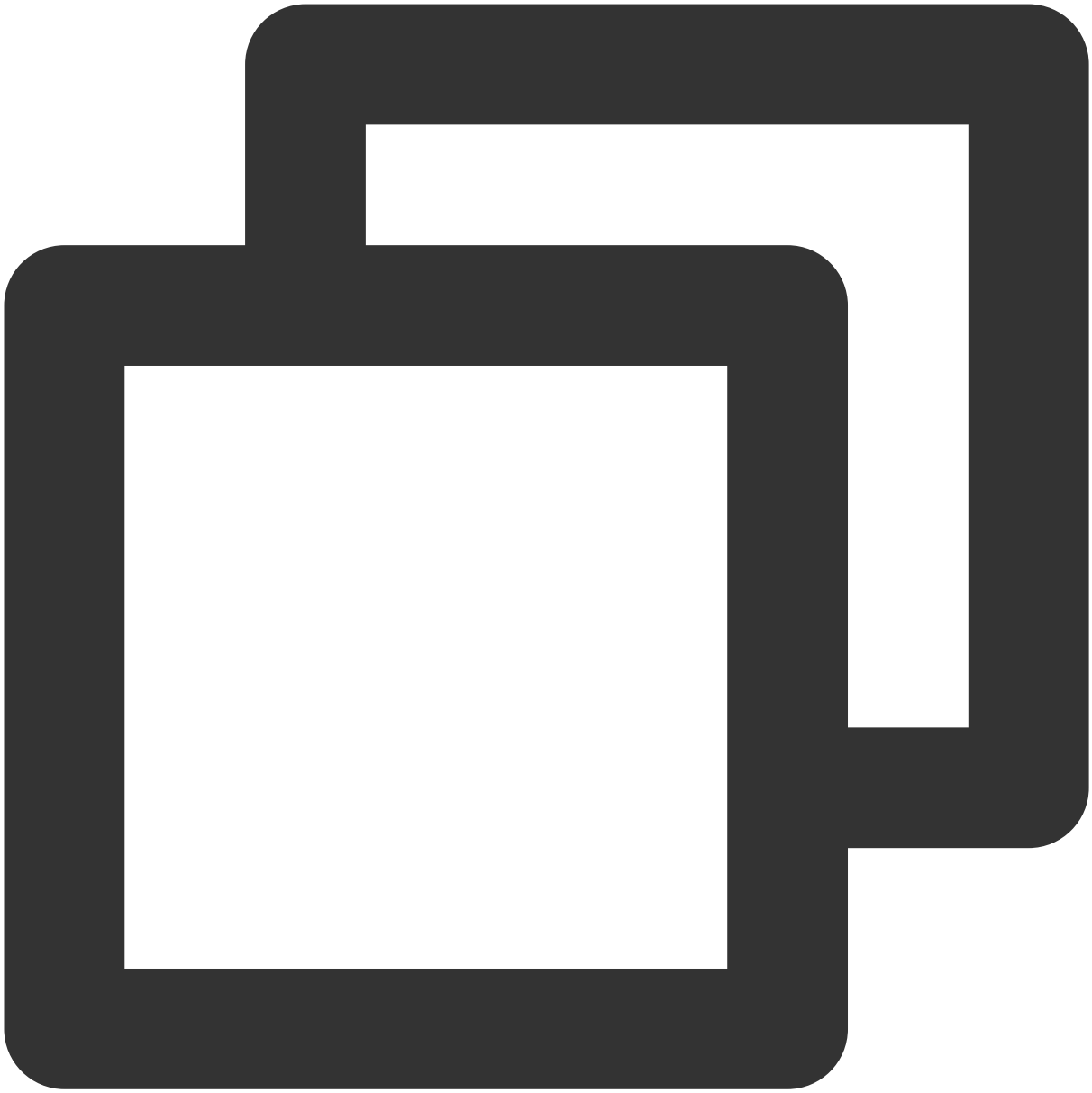

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:29:48+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j6842765cf84611ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format/>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info/>
                    <ObjectName>output/smartcover-0.jpg</ObjectName>
                    <ObjectName>output/smartcover-1.jpg</ObjectName>
                    <ObjectName>output/smartcover-2.jpg</ObjectName>
                    <ObjectName>output/smartcover-3.jpg</ObjectName>
                    <ObjectName>output/smartcover-4.jpg</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/smartcover-${Number}.jpg</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <SmartCover>
                <Count>5</Count>
                <DeleteDuplicates>false</DeleteDuplicates>
                <Format>jpg</Format>
                <Height>960</Height>
                <Width>1280</Width>
            </SmartCover>
            <UserData>This is my SmartCover job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:43+0800</StartTime>
        <State>Success</State>
        <Tag>SmartCover</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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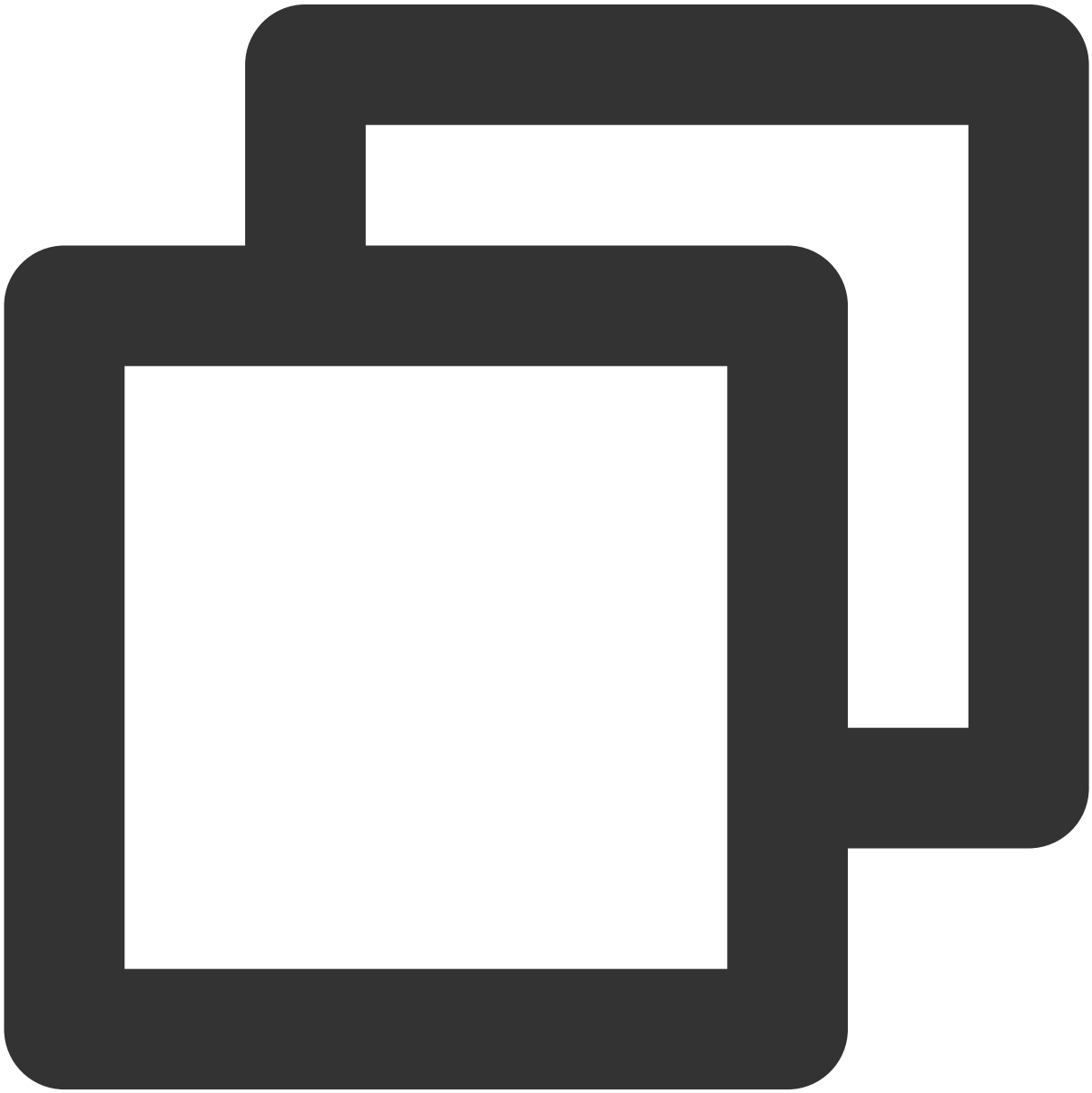

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:29:48+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>j6842765cf84611ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format/>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info/>
                    <ObjectName>output/smartcover-0.jpg</ObjectName>
                    <ObjectName>output/smartcover-1.jpg</ObjectName>
                    <ObjectName>output/smartcover-2.jpg</ObjectName>
                    <ObjectName>output/smartcover-3.jpg</ObjectName>
                    <ObjectName>output/smartcover-4.jpg</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/smartcover-${Number}.jpg</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <SmartCover>
                <Count>5</Count>
```

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```
                <DeleteDuplicates>false</DeleteDuplicates>
                <Format>jpg</Format>
                <Height>960</Height>
                <Width>1280</Width>
            </SmartCover>
            <UserData>This is my SmartCover job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:43+0800</StartTime>
        <State>Success</State>
        <Tag>SmartCover</Tag>
        <Workflow>
            <Name>SmartCover_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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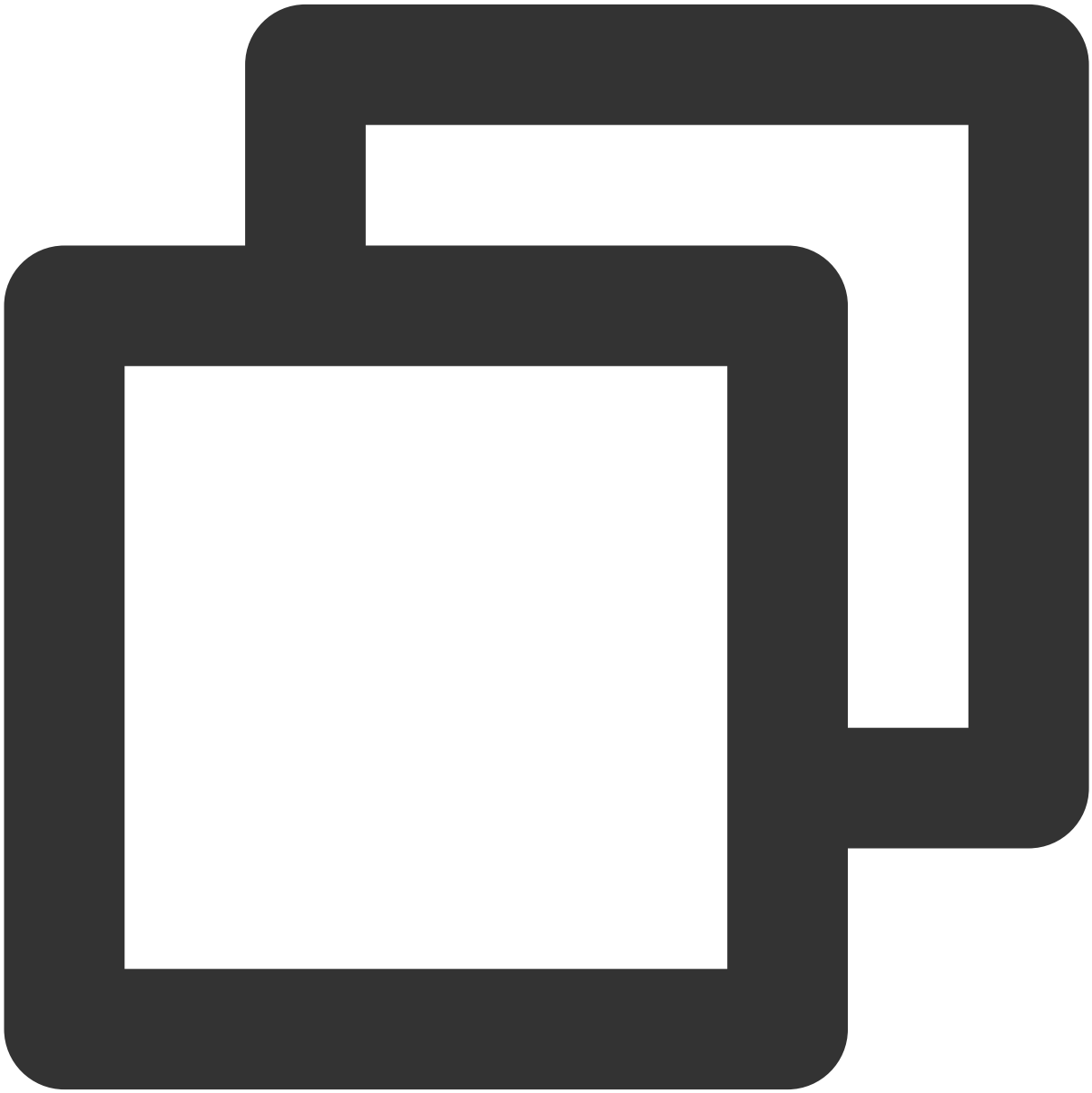

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T15:29:42+0800",
        "EndTime": "2022-06-30T15:29:48+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```

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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "j6842765cf84611ecb8546d80f2baf56f",
        "Operation": {
            "MediaInfo": {
                "Stream": {

                }
            },
            "MediaResult": {
                "OutputFile": {
                    "Bucket": "test-123456789",
                    "ObjectName": [
                        "output/smartcover-0.jpg",
                        "output/smartcover-1.jpg",
                        "output/smartcover-2.jpg",
                        "output/smartcover-3.jpg",
                        "output/smartcover-4.jpg"
                    ],
                    "Region": "ap-chongqing"
                }
            },
            "Output": {
                "Bucket": "test-123456789",
                "Object": "output/smartcover-${Number}.jpg",
                "Region": "ap-chongqing"
            },
            "SmartCover": {
                "Count": "5",
                "DeleteDuplicates": "false",
                "Format": "jpg",
                "Height": "960",
```


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```
                "Width": "1280"
            },
            "UserData": "This is my SmartCover job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T15:29:43+0800",
        "State": "Success",
        "Tag": "SmartCover",
        "Workflow": {
            "Name": "SmartCover_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Frame Capturing

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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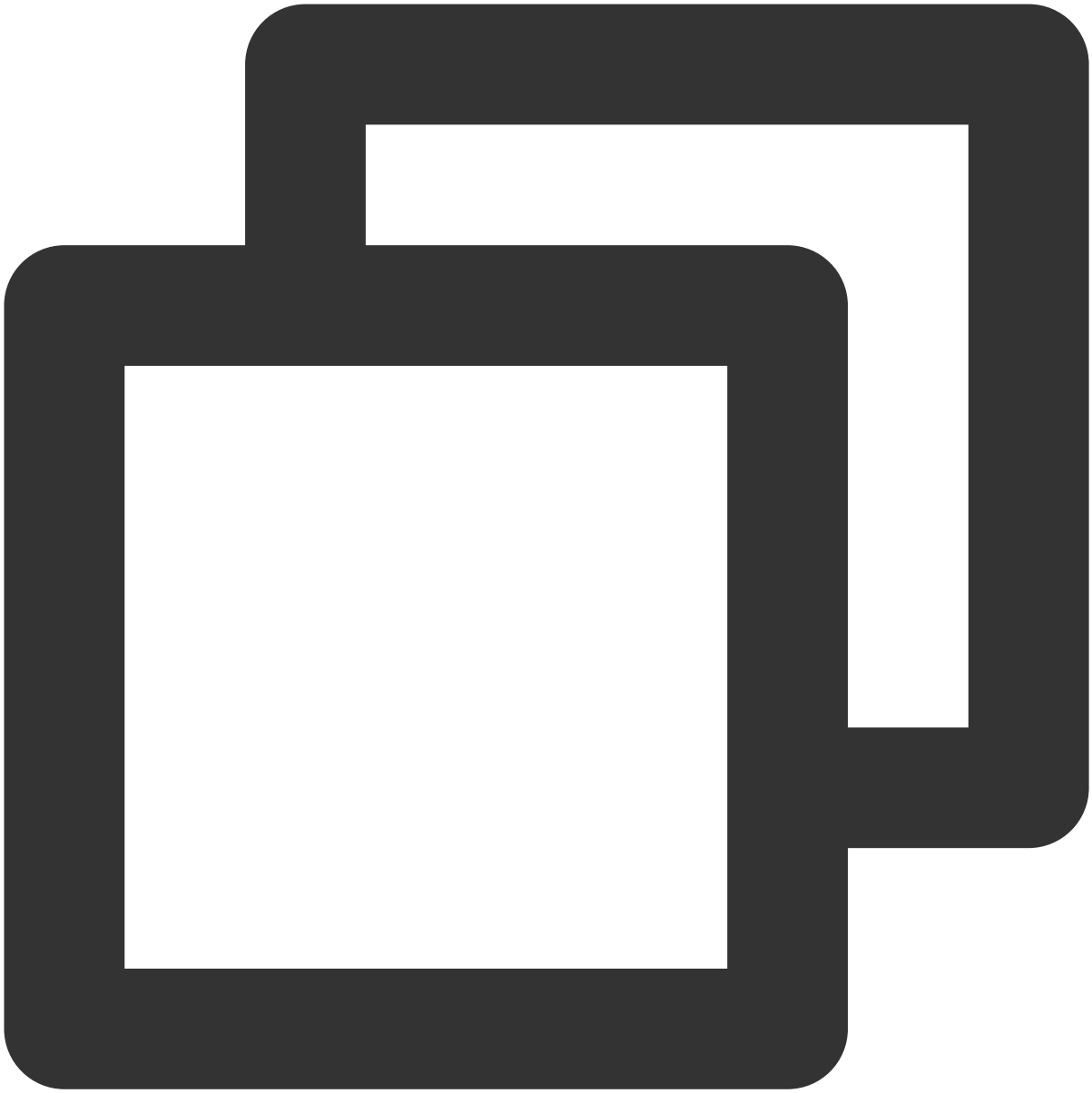

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:25:11+0800</CreationTime>
        <EndTime>2022-06-30T19:25:14+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j4e431ba0f86711ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format/>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info/>
                    <ObjectName>0.jpg</ObjectName>
                    <ObjectName>1.jpg</ObjectName>
                    <ObjectName>2.jpg</ObjectName>
                    <ObjectName>3.jpg</ObjectName>
                    <ObjectName>4.jpg</ObjectName>
                    <ObjectName>5.jpg</ObjectName>
                    <ObjectPrefix>output/snapshot-</ObjectPrefix>
                    <Region>ap-chongqing</Region>
                    <SpriteOutputFile>
                        <Bucket>test-123456789</Bucket>
                        <Md5Info/>
                        <ObjectName>0.jpg</ObjectName>
                        <ObjectPrefix>output/sprite-</ObjectPrefix>
                        <Region>ap-chongqing</Region>
                    </SpriteOutputFile>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/snapshot-${Number}.jpg</Object>
                <Region>ap-chongqing</Region>
                <SpriteObject>output/sprite-${Number}.jpg</SpriteObject>
            </Output>
            <TemplateId>t1f16e1dfbdc9ds4105b31632d45710642a</TemplateId>
            <TemplateName>template_snapshot</TemplateName>
            <UserData>This is my Snapshot job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:25:12+0800</StartTime>
        <State>Success</State>
        <Tag>Snapshot</Tag>
    </JobsDetail>
```

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```
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the screenshot job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

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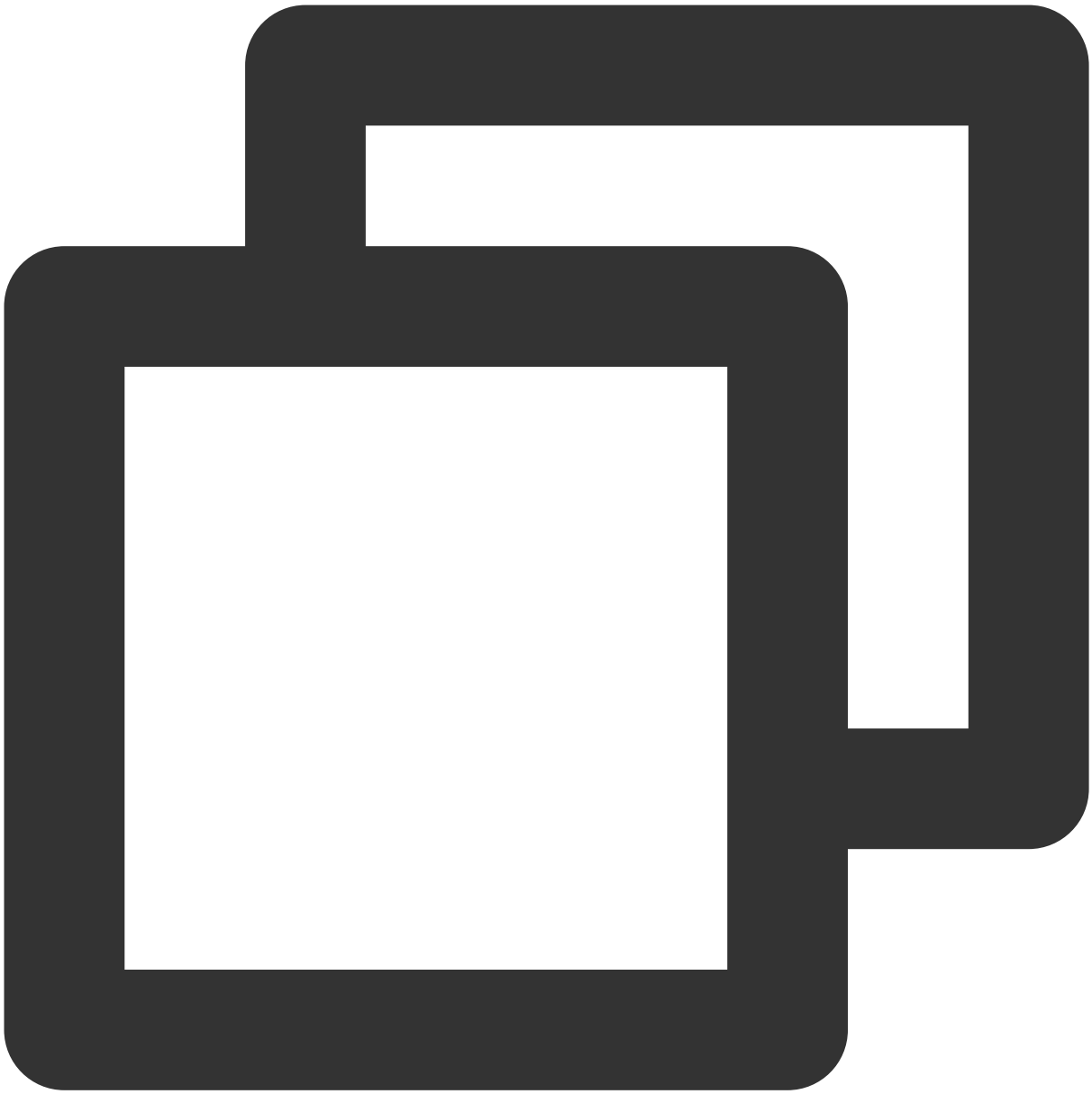
Sample 1: Job callback triggered by a job API



```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:25:11+0800</CreationTime>
        <EndTime>2022-06-30T19:25:14+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
```

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```
            <Region>ap-chongqing</Region>
        </Input>
        <JobId>j4e431ba0f86711ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format/>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info/>
                    <ObjectName>0.jpg</ObjectName>
                    <ObjectName>1.jpg</ObjectName>
                    <ObjectName>2.jpg</ObjectName>
                    <ObjectName>3.jpg</ObjectName>
                    <ObjectName>4.jpg</ObjectName>
                    <ObjectName>5.jpg</ObjectName>
                    <ObjectPrefix>output/snapshot-</ObjectPrefix>
                    <Region>ap-chongqing</Region>
                    <SpriteOutputFile>
                        <Bucket>test-123456789</Bucket>
                        <Md5Info/>
                        <ObjectName>0.jpg</ObjectName>
                        <ObjectPrefix>output/sprite-</ObjectPrefix>
                        <Region>ap-chongqing</Region>
                    </SpriteOutputFile>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/snapshot-${Number}.jpg</Object>
                <Region>ap-chongqing</Region>
                <SpriteObject>output/sprite-${Number}.jpg</SpriteObject>
            </Output>
            <TemplateId>t1f16e1dfbdc9ds4105b31632d45710642a</TemplateId>
            <TemplateName>template_snapshot</TemplateName>
            <UserData>This is my Snapshot job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:25:12+0800</StartTime>
        <State>Success</State>
```

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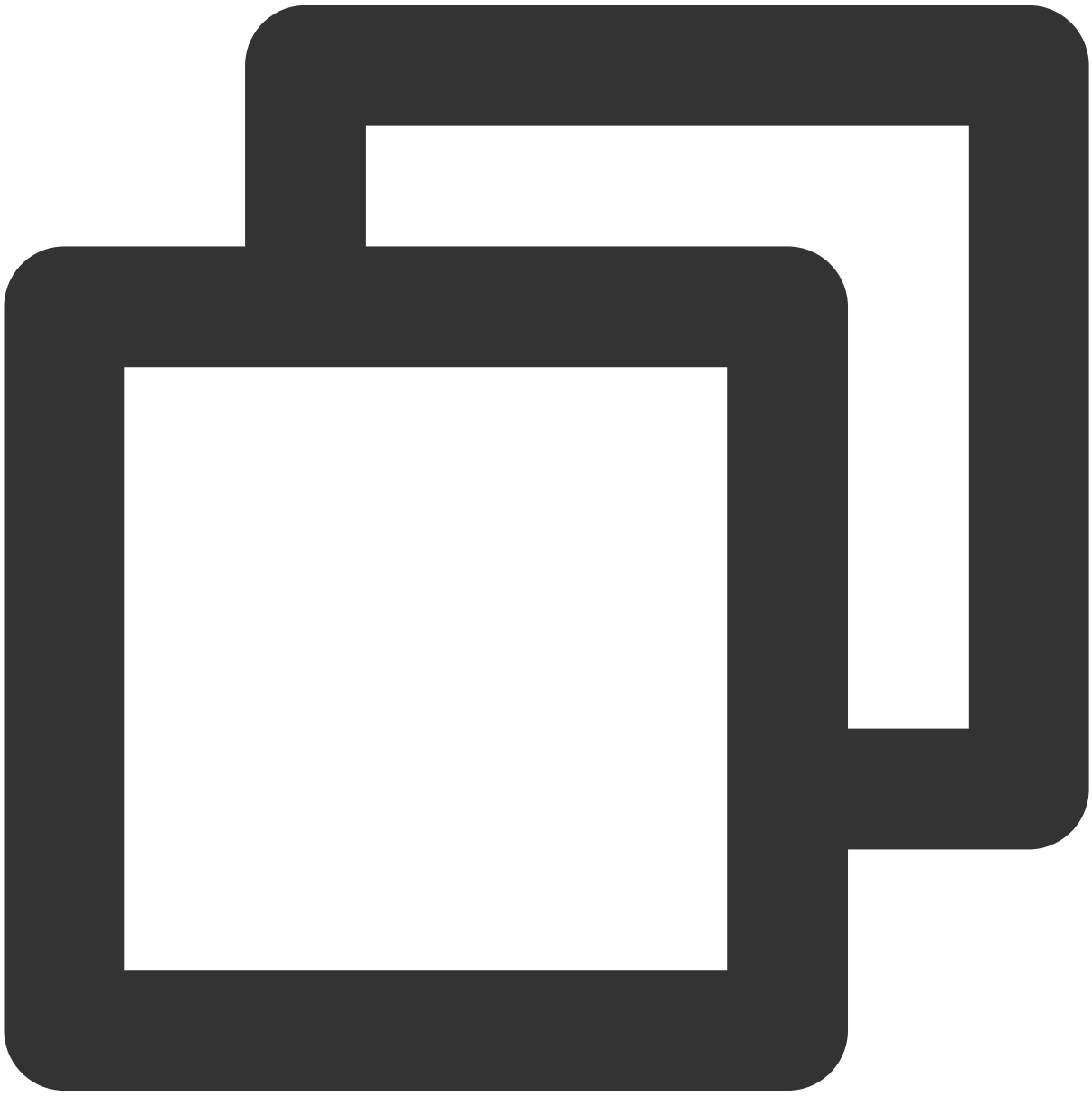
```
        <Tag>Snapshot</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow



```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <CreationTime>2022-06-30T19:25:11+0800</CreationTime>
        <EndTime>2022-06-30T19:25:14+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>j4e431ba0f86711ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format/>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info/>
                    <ObjectName>0.jpg</ObjectName>
                    <ObjectName>1.jpg</ObjectName>
                    <ObjectName>2.jpg</ObjectName>
                    <ObjectName>3.jpg</ObjectName>
                    <ObjectName>4.jpg</ObjectName>
                    <ObjectName>5.jpg</ObjectName>
                    <ObjectPrefix>output/snapshot-</ObjectPrefix>
                    <Region>ap-chongqing</Region>
                    <SpriteOutputFile>
```

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```
                        <Bucket>test-123456789</Bucket>
                        <Md5Info/>
                        <ObjectName>0.jpg</ObjectName>
                        <ObjectPrefix>output/sprite-</ObjectPrefix>
                        <Region>ap-chongqing</Region>
                    </SpriteOutputFile>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/snapshot-${Number}.jpg</Object>
                <Region>ap-chongqing</Region>
                <SpriteObject>output/sprite-${Number}.jpg</SpriteObject>
            </Output>
            <TemplateId>t1f16e1dfbdc9ds4105b31632d45710642a</TemplateId>
            <TemplateName>template_snapshot</TemplateName>
            <UserData>This is my Snapshot job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:25:12+0800</StartTime>
        <State>Success</State>
        <Tag>Snapshot</Tag>
        <Workflow>
            <Name>Snapshot_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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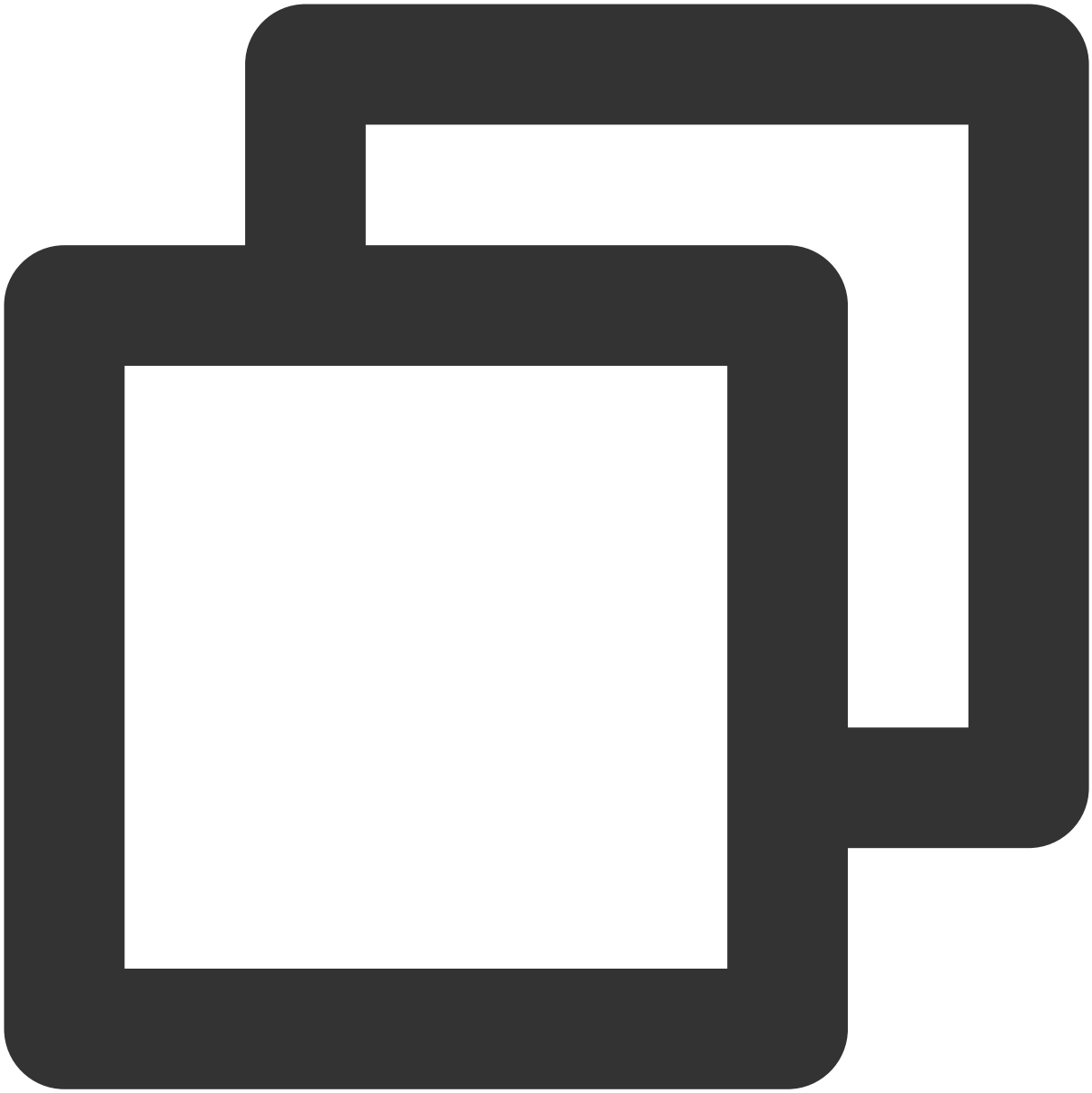

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T19:25:11+0800",
        "EndTime": "2022-06-30T19:25:14+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```

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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "j4e431ba0f86711ecb8546d80f2baf56f",
        "Operation": {
            "MediaInfo": {
                "Stream": {

                }
            },
            "MediaResult": {
                "OutputFile": {
                    "Bucket": "test-123456789",
                    "ObjectName": [
                        "0.jpg",
                        "1.jpg",
                        "2.jpg",
                        "3.jpg",
                        "4.jpg",
                        "5.jpg"
                    ],
                    "ObjectPrefix": "output/snapshot-",
                    "Region": "ap-chongqing",
                    "SpriteOutputFile": {
                        "Bucket": "test-123456789",
                        "ObjectName": "0.jpg",
                        "ObjectPrefix": "output/sprite-",
                        "Region": "ap-chongqing"
                    }
                }
            },
            "Output": {
                "Bucket": "test-123456789",
```


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```
                "Object": "output/snapshot-${Number}.jpg",
                "Region": "ap-chongqing",
                "SpriteObject": "output/sprite-${Number}.jpg"
            },
            "TemplateId": "t1f16e1dfbdc9ds4105b31632d45710642a",
            "TemplateName": "template_snapshot",
            "UserData": "This is my Snapshot job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T19:25:12+0800",
        "State": "Success",
        "Tag": "Snapshot",
        "Workflow": {
            "Name": "Snapshot_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Stream Separation

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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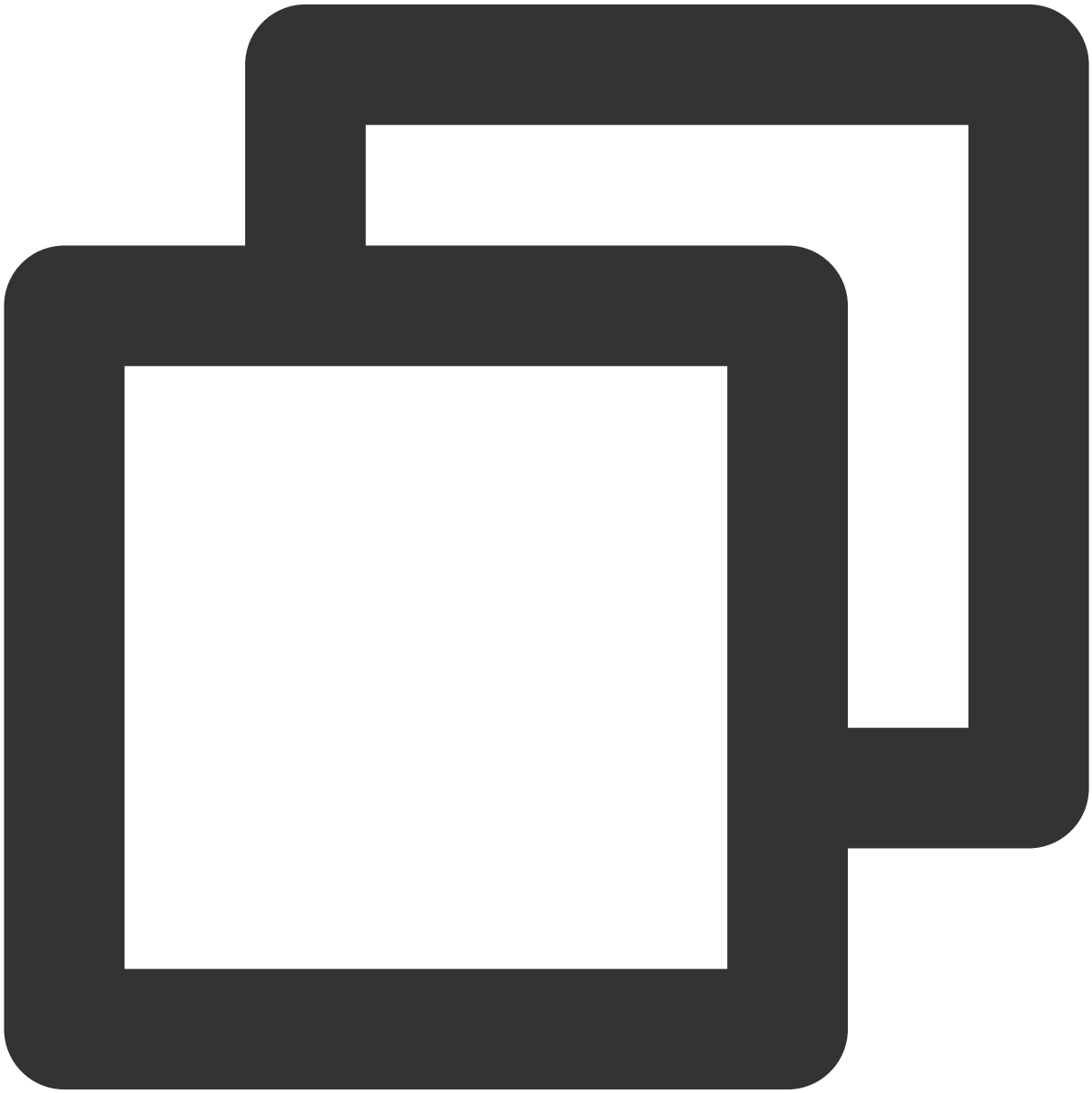

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:27:39+0800</CreationTime>
        <EndTime>2022-06-30T19:27:42+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>ja66d6204f86711ec9ca1073b78d316d3</JobId>
        <Message/>
        <Operation>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>e8c802ed78ba7f4c6a2fb5144cba7cbc</Md5>
                        <ObjectName>output/out0.mp4</ObjectName>
                    </Md5Info>
                    <Md5Info>
                        <Md5>f5883c1380524eecd1a925657ab17b4c</Md5>
                        <ObjectName>output/out1.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/out0.mp4</ObjectName>
                    <ObjectName>output/out1.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Region>ap-chongqing</Region>
                <StreamExtract>
                    <Index>0</Index>
                    <Output>output/out0.mp4</Output>
                </StreamExtract>
                <StreamExtract>
                    <Index>1</Index>
                    <Output>output/out1.mp4</Output>
                </StreamExtract>
                <StreamExtract>
                    <Index>2</Index>
                    <Output>output/out2.mp4</Output>
                </StreamExtract>
            </Output>
            <UserData>This is my StreamExtract job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:27:40+0800</StartTime>
        <State>Success</State>
        <Tag>StreamExtract</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the stream separation job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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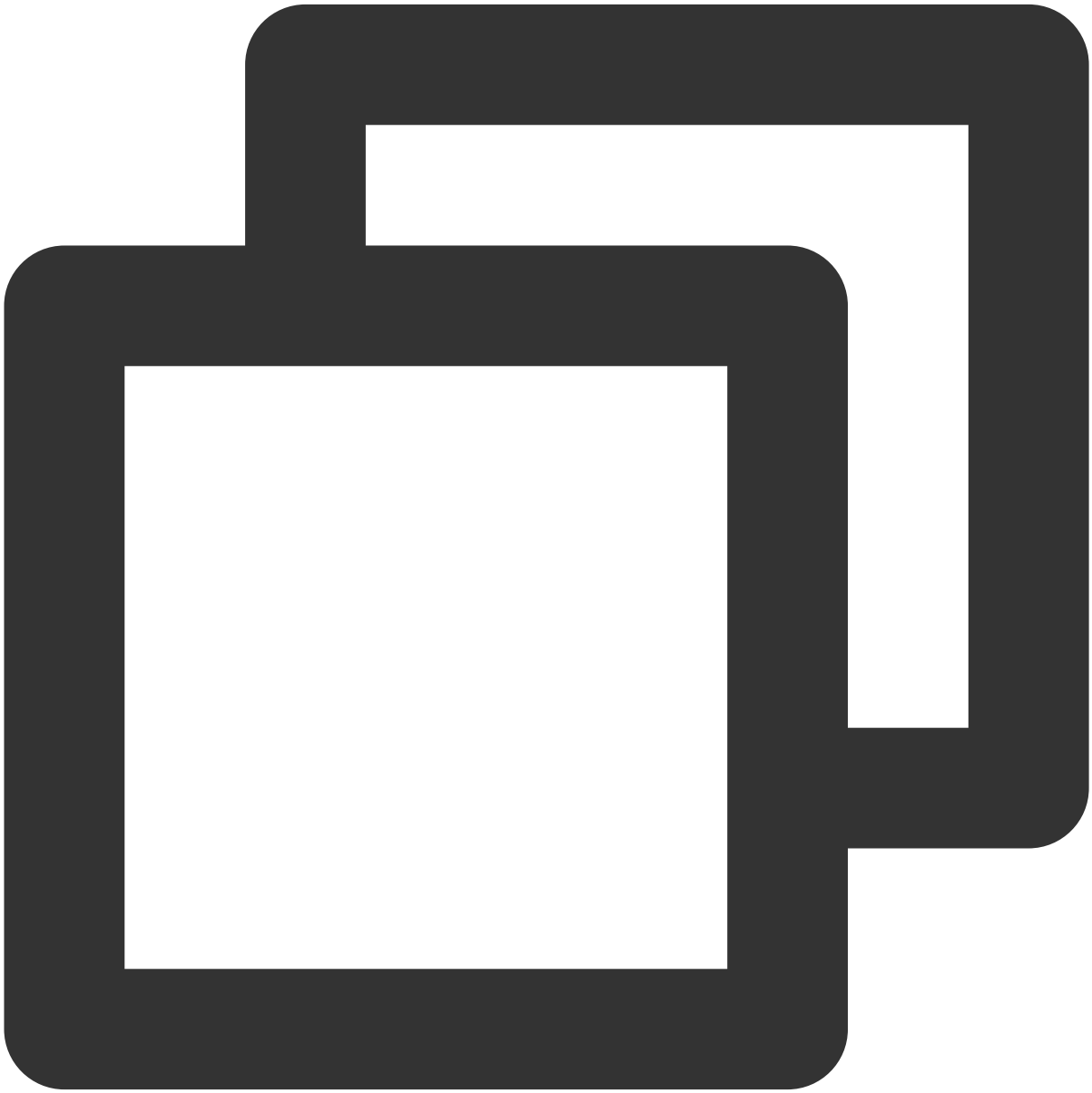

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:27:39+0800</CreationTime>
        <EndTime>2022-06-30T19:27:42+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>ja66d6204f86711ec9ca1073b78d316d3</JobId>
        <Message/>
        <Operation>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>e8c802ed78ba7f4c6a2fb5144cba7cbc</Md5>
                        <ObjectName>output/out0.mp4</ObjectName>
                    </Md5Info>
                    <Md5Info>
                        <Md5>f5883c1380524eecd1a925657ab17b4c</Md5>
                        <ObjectName>output/out1.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/out0.mp4</ObjectName>
                    <ObjectName>output/out1.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Region>ap-chongqing</Region>
                <StreamExtract>
                    <Index>0</Index>
                    <Output>output/out0.mp4</Output>
                </StreamExtract>
                <StreamExtract>
                    <Index>1</Index>
                    <Output>output/out1.mp4</Output>
                </StreamExtract>
                <StreamExtract>
                    <Index>2</Index>
                    <Output>output/out2.mp4</Output>
                </StreamExtract>
            </Output>
            <UserData>This is my StreamExtract job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:27:40+0800</StartTime>
        <State>Success</State>
        <Tag>StreamExtract</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback in JSON format triggered by a job API

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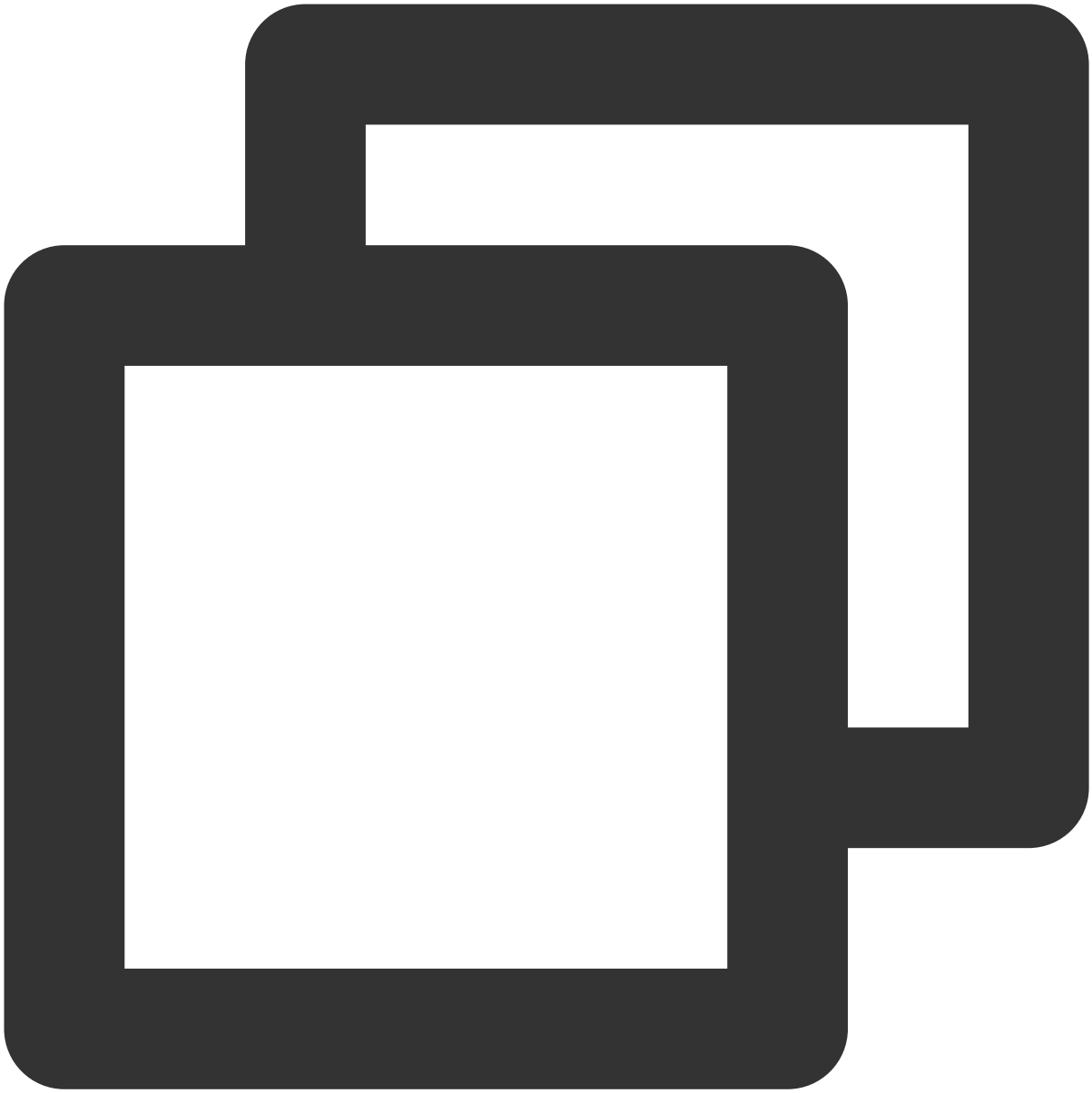


```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T19:27:39+0800",
        "EndTime": "2022-06-30T19:27:42+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing"
        },
```


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```
        "JobId": "ja66d6204f86711ec9ca1073b78d316d3",
        "Operation": {
            "MediaResult": {
                "OutputFile": {
                    "Bucket": "test-123456789",
                    "Md5Info": [{
                            "Md5": "e8c802ed78ba7f4c6a2fb5144cba7cbc",
                            "ObjectName": "output/out0.mp4"
                        },
                        {
                            "Md5": "f5883c1380524eecd1a925657ab17b4c",
                            "ObjectName": "output/out1.mp4"
                        }
                    ],
                    "ObjectName": [
                        "output/out0.mp4",
                        "output/out1.mp4"
                    ],
                    "Region": "ap-chongqing"
                }
            },
            "Output": {
                "Bucket": "test-123456789",
                "Region": "ap-chongqing",
                "StreamExtract": [{
                        "Index": "0",
                        "Output": "output/out0.mp4"
                    },
                    {
                        "Index": "1",
                        "Output": "output/out1.mp4"
                    },
                    {
                        "Index": "2",
                        "Output": "output/out2.mp4"
                    }
                ]
            },
            "UserData": "This is my StreamExtract job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T19:27:40+0800",
        "State": "Success",
        "Tag": "StreamExtract"
    }
}
```


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Super Resolution

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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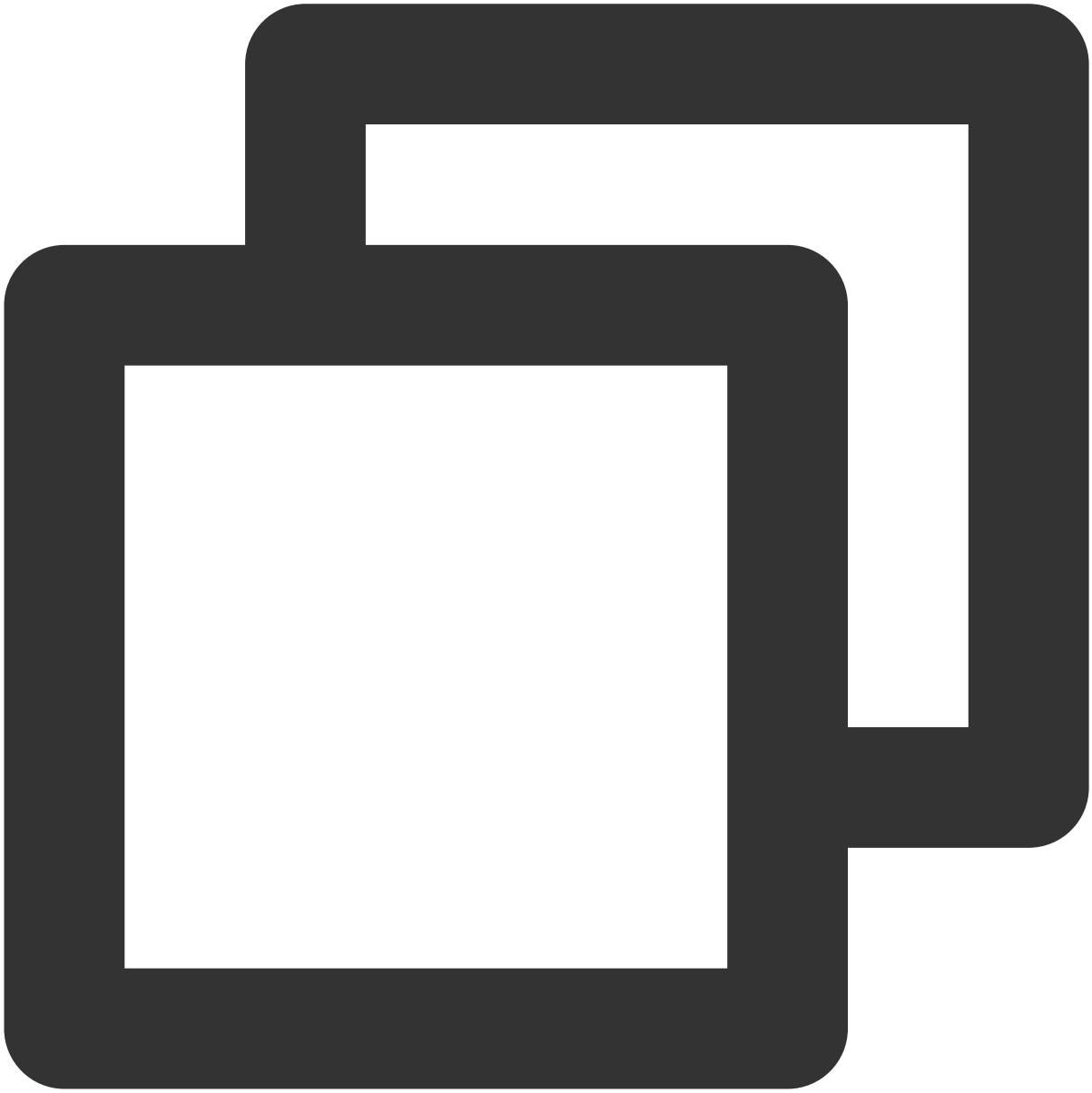

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:30:20+0800</CreationTime>
        <EndTime>2022-06-30T19:31:56+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j06668dc0f86811ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <DigitalWatermark>
                <IgnoreError>false</IgnoreError>
                <Message>123456789ab</Message>
                <State>Failed</State>
                <Type>Text</Type>
                <Version>V1</Version>
            </DigitalWatermark>
            <MediaInfo>
                <Format>
                    <Bitrate>8867.172000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>15134046</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.652993</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>25.000000</AvgFps>
                        <Bitrate>9197.180000</Bitrate>
                        <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                        <CodecName>hevc</CodecName>
                        <CodecTag>0x31766568</CodecTag>
                        <CodecTagString>hev1</CodecTagString>
```

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```
                    <CodecTimeBase>1/12800</CodecTimeBase>
                    <ColorPrimaries>bt470bg</ColorPrimaries>
                    <ColorRange>tv</ColorRange>
                    <ColorTransfer>smpte170m</ColorTransfer>
                    <Duration>12.960000</Duration>
                    <FieldOrder>progressive</FieldOrder>
                    <Fps>25.000000</Fps>
                    <HasBFrame>2</HasBFrame>
                    <Height>1920</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>120</Level>
                    <NumFrames>324</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>Main</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12800</Timebase>
                    <Width>1088</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>852883012a6ba726e6ed8d9b984edfdf</Md5>
                    <ObjectName>output/super_resolution.mp4</ObjectName>
                </Md5Info>
                <ObjectName>output/super_resolution.mp4</ObjectName>
                <ObjectPrefix/>
                <Region>ap-chongqing</Region>
            </OutputFile>
        </MediaResult>
        <Output>
            <Bucket>test-123456789</Bucket>
            <Object>output/super_resolution.mp4</Object>
            <Region>ap-chongqing</Region>
        </Output>
        <TemplateId>t1f1ae1dfsdc9ds41dsb31632d45710642a</TemplateId>
        <TemplateName>template_superresolution</TemplateName>
        <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
        <UserData>This is my SuperResolution job.</UserData>
        <WatermarkTemplateId>t143ae6e040af6431aa772c9ec3f0a3f36</WatermarkTempl
        <WatermarkTemplateId>t12a74d11687d444deba8a6cc52051ac27</WatermarkTempl
    </Operation>
```

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```
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:30:21+0800</StartTime>
        <State>Success</State>
        <SubTag>DigitalWatermark</SubTag>
        <Tag>SuperResolution</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish` .	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the super resolution job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String

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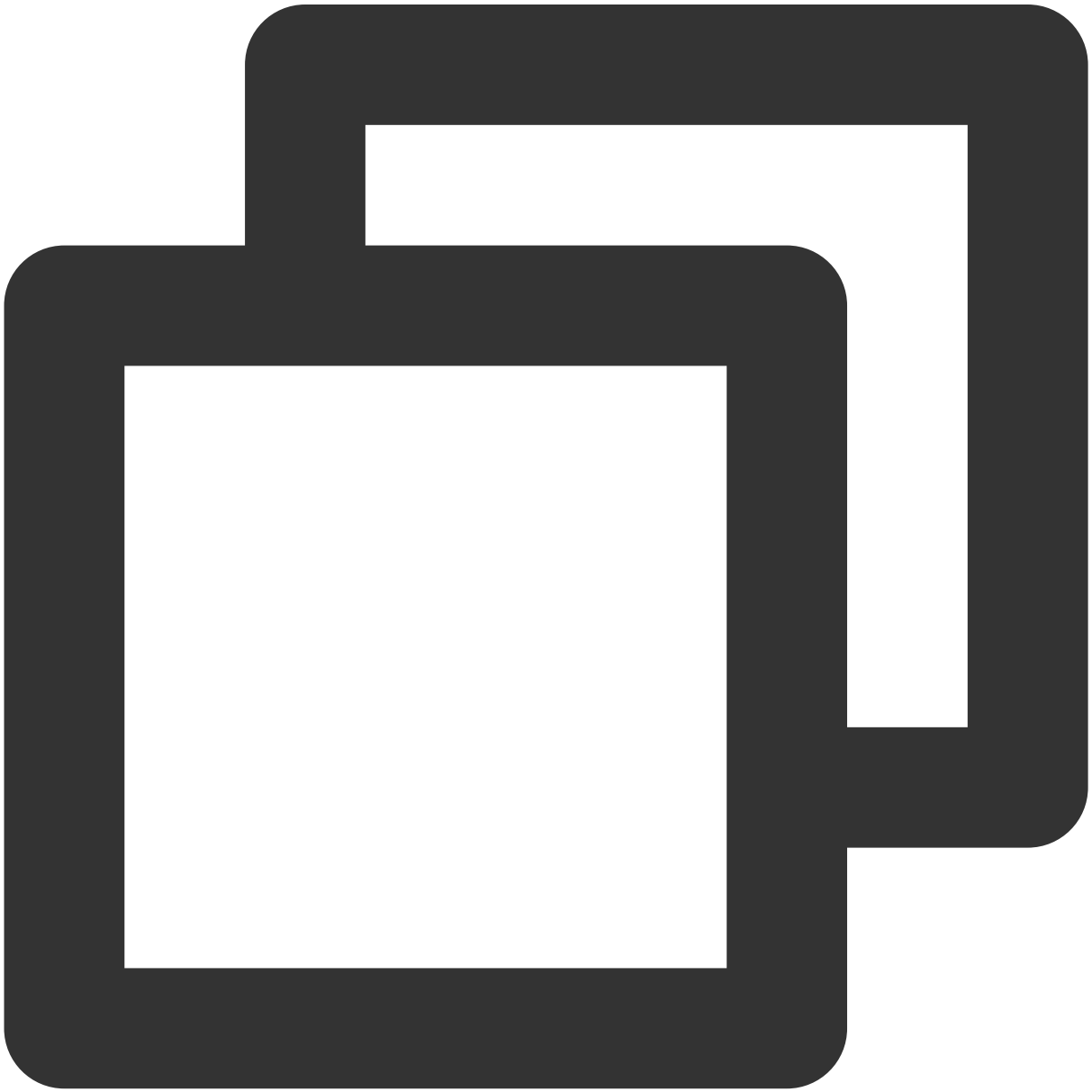
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API



```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
```

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```
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:30:20+0800</CreationTime>
        <EndTime>2022-06-30T19:31:56+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <JobId>j06668dc0f86811ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <DigitalWatermark>
                <IgnoreError>false</IgnoreError>
                <Message>123456789ab</Message>
                <State>Failed</State>
                <Type>Text</Type>
                <Version>V1</Version>
            </DigitalWatermark>
            <MediaInfo>
                <Format>
                    <Bitrate>8867.172000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>15134046</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.652993</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
```

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```
                    <Subtitle/>
                    <Video>
                        <AvgFps>25.000000</AvgFps>
                        <Bitrate>9197.180000</Bitrate>
                        <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                        <CodecName>hevc</CodecName>
                        <CodecTag>0x31766568</CodecTag>
                        <CodecTagString>hev1</CodecTagString>
                        <CodecTimeBase>1/12800</CodecTimeBase>
                        <ColorPrimaries>bt470bg</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>12.960000</Duration>
                        <FieldOrder>progressive</FieldOrder>
                        <Fps>25.000000</Fps>
                        <HasBFrame>2</HasBFrame>
                        <Height>1920</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>120</Level>
                        <NumFrames>324</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>Main</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>1088</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>852883012a6ba726e6ed8d9b984edfdf</Md5>
                        <ObjectName>output/super_resolution.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/super_resolution.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/super_resolution.mp4</Object>
                <Region>ap-chongqing</Region>
```


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```
            </Output>
            <TemplateId>t1f1ae1dfsdc9ds41dsb31632d45710642a</TemplateId>
            <TemplateName>template_superresolution</TemplateName>
            <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
            <UserData>This is my SuperResolution job.</UserData>
            <WatermarkTemplateId>t143ae6e040af6431aa772c9ec3f0a3f36</WatermarkTempl
            <WatermarkTemplateId>t12a74d11687d444deba8a6cc52051ac27</WatermarkTempl
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:30:21+0800</StartTime>
        <State>Success</State>
        <SubTag>DigitalWatermark</SubTag>
        <Tag>SuperResolution</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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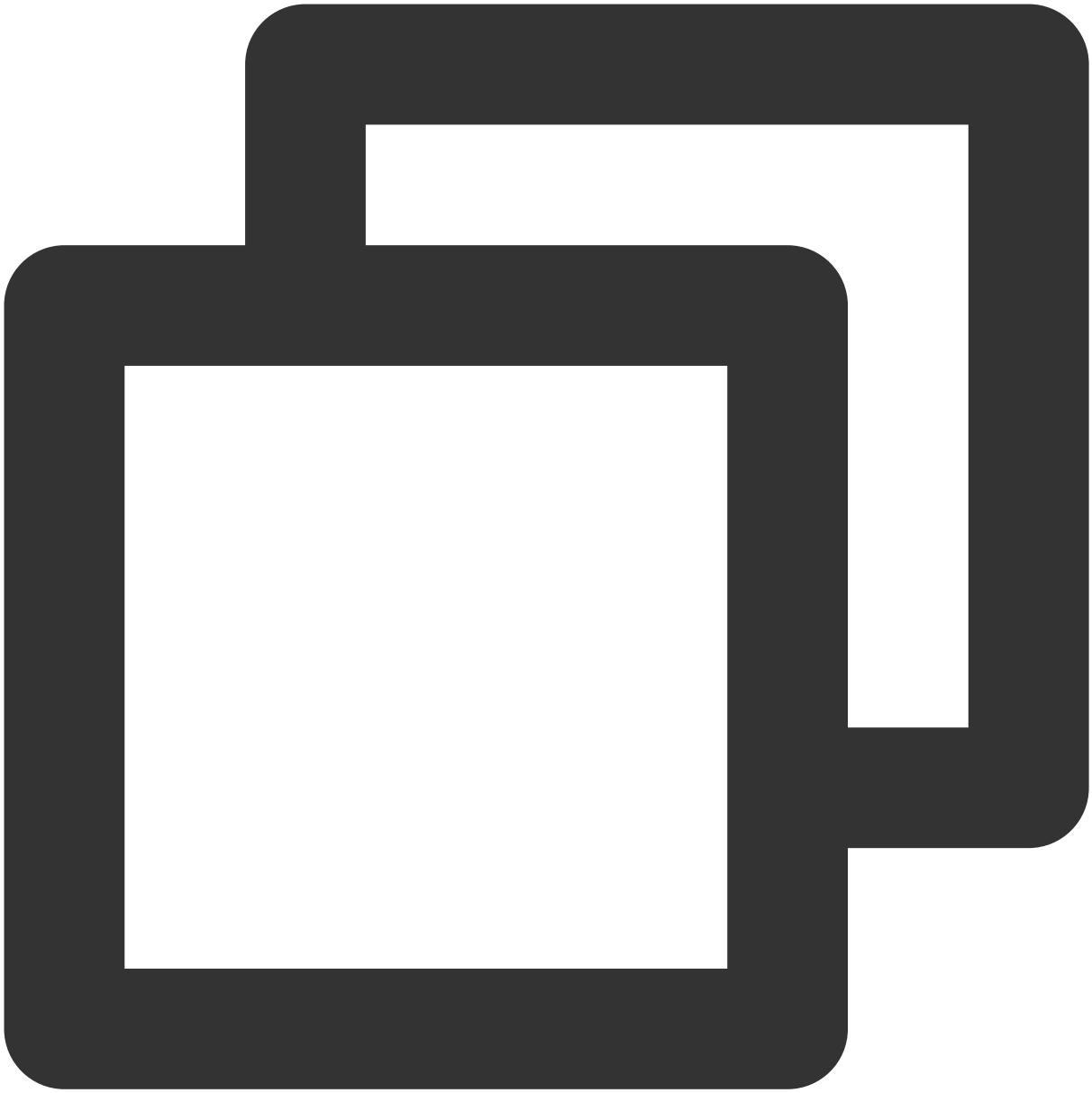

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:30:20+0800</CreationTime>
        <EndTime>2022-06-30T19:31:56+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>j06668dc0f86811ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <DigitalWatermark>
                <IgnoreError>false</IgnoreError>
                <Message>123456789ab</Message>
                <State>Failed</State>
                <Type>Text</Type>
                <Version>V1</Version>
            </DigitalWatermark>
            <MediaInfo>
                <Format>
                    <Bitrate>8867.172000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>15134046</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
```

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```
                    <Duration>13.652993</Duration>
                    <Index>1</Index>
                    <Language>und</Language>
                    <SampleFmt>fltp</SampleFmt>
                    <SampleRate>44100</SampleRate>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/44100</Timebase>
                </Audio>
                <Subtitle/>
                <Video>
                    <AvgFps>25.000000</AvgFps>
                    <Bitrate>9197.180000</Bitrate>
                    <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                    <CodecName>hevc</CodecName>
                    <CodecTag>0x31766568</CodecTag>
                    <CodecTagString>hev1</CodecTagString>
                    <CodecTimeBase>1/12800</CodecTimeBase>
                    <ColorPrimaries>bt470bg</ColorPrimaries>
                    <ColorRange>tv</ColorRange>
                    <ColorTransfer>smpte170m</ColorTransfer>
                    <Duration>12.960000</Duration>
                    <FieldOrder>progressive</FieldOrder>
                    <Fps>25.000000</Fps>
                    <HasBFrame>2</HasBFrame>
                    <Height>1920</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>120</Level>
                    <NumFrames>324</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>Main</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12800</Timebase>
                    <Width>1088</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>852883012a6ba726e6ed8d9b984edfdf</Md5>
                    <ObjectName>output/super_resolution.mp4</ObjectName>
                </Md5Info>
                <ObjectName>output/super_resolution.mp4</ObjectName>
```


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```
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/super_resolution.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t1f1ae1dfsdc9ds41dsb31632d45710642a</TemplateId>
            <TemplateName>template_superresolution</TemplateName>
            <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
            <UserData>This is my SuperResolution job.</UserData>
            <WatermarkTemplateId>t143ae6e040af6431aa772c9ec3f0a3f36</WatermarkTempl
            <WatermarkTemplateId>t12a74d11687d444deba8a6cc52051ac27</WatermarkTempl
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:30:21+0800</StartTime>
        <State>Success</State>
        <SubTag>DigitalWatermark</SubTag>
        <Tag>SuperResolution</Tag>
        <Workflow>
            <Name>SuperResolution_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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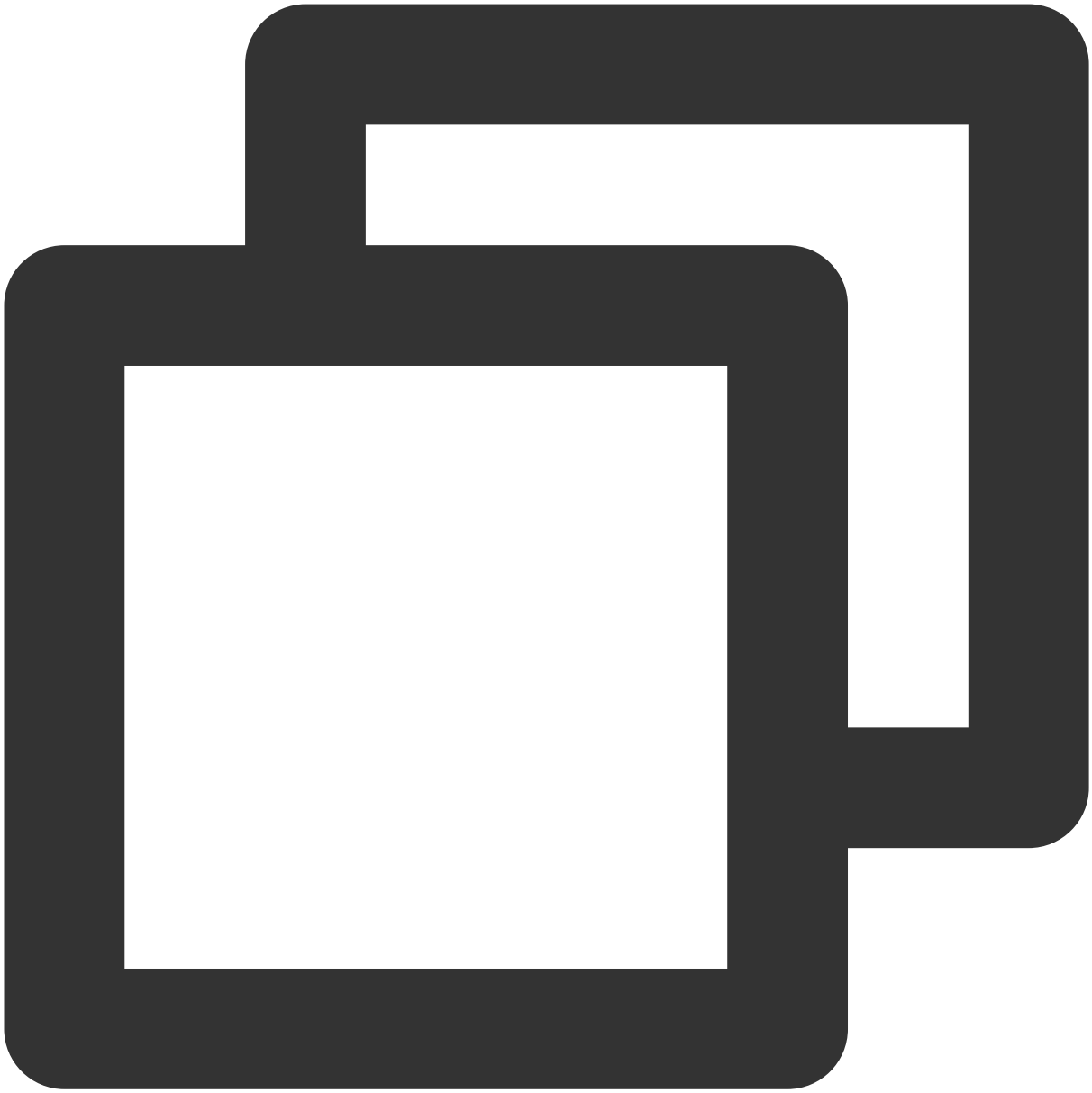


```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T19:30:20+0800",
        "EndTime": "2022-06-30T19:31:56+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```


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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "j06668dc0f86811ecb90d0b03267ce0e5",
        "Operation": {
            "DigitalWatermark": {
                "IgnoreError": "false",
                "Message": "123456789ab",
                "State": "Failed",
                "Type": "Text",
                "Version": "V1"
            },
            "MediaInfo": {
                "Format": {
                    "Bitrate": "8867.172000",
                    "Duration": "13.654000",
                    "FormatLongName": "QuickTime / MOV",
                    "FormatName": "mov,mp4,m4a,3gp,3g2,mj2",
                    "NumProgram": "0",
                    "NumStream": "2",
                    "Size": "15134046",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "128.726000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/44100",
```


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```
                    "Duration": "13.652993",
                    "Index": "1",
                    "Language": "und",
                    "SampleFmt": "fltp",
                    "SampleRate": "44100",
                    "StartTime": "0.000000",
                    "Timebase": "1/44100"
                },
                "Video": {
                    "AvgFps": "25.000000",
                    "Bitrate": "9197.180000",
                    "CodecLongName": "H.265 / HEVC (High Efficiency Video Codin
                    "CodecName": "hevc",
                    "CodecTag": "0x31766568",
                    "CodecTagString": "hev1",
                    "CodecTimeBase": "1/12800",
                    "ColorPrimaries": "bt470bg",
                    "ColorRange": "tv",
                    "ColorTransfer": "smpte170m",
                    "Duration": "12.960000",
                    "FieldOrder": "progressive",
                    "Fps": "25.000000",
                    "HasBFrame": "2",
                    "Height": "1920",
                    "Index": "0",
                    "Language": "und",
                    "Level": "120",
                    "NumFrames": "324",
                    "PixFormat": "yuv420p",
                    "Profile": "Main",
                    "RefFrames": "1",
                    "Rotation": "0.000000",
                    "StartTime": "0.000000",
                    "Timebase": "1/12800",
                    "Width": "1088"
                }
            }
        },
        "MediaResult": {
            "OutputFile": {
                "Bucket": "test-123456789",
                "Md5Info": {
                    "Md5": "852883012a6ba726e6ed8d9b984edfdf",
                    "ObjectName": "output/super_resolution.mp4"
                },
                "ObjectName": "output/super_resolution.mp4",
                "Region": "ap-chongqing"
```


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```
                }
            },
            "Output": {
                "Bucket": "test-123456789",
                "Object": "output/super_resolution.mp4",
                "Region": "ap-chongqing"
            },
            "TemplateId": "t1f1ae1dfsdc9ds41dsb31632d45710642a",
            "TemplateName": "template_superresolution",
            "TranscodeTemplateId": "t156c107210e7243c5817354565d81b578",
            "UserData": "This is my SuperResolution job.",
            "WatermarkTemplateId": [
                "t143ae6e040af6431aa772c9ec3f0a3f36",
                "t12a74d11687d444deba8a6cc52051ac27"
            ]
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T19:30:21+0800",
        "State": "Success",
        "SubTag": "DigitalWatermark",
        "Tag": "SuperResolution",
        "Workflow": {
            "Name": "SuperResolution_1581665960537_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Audio/Video Transcoding

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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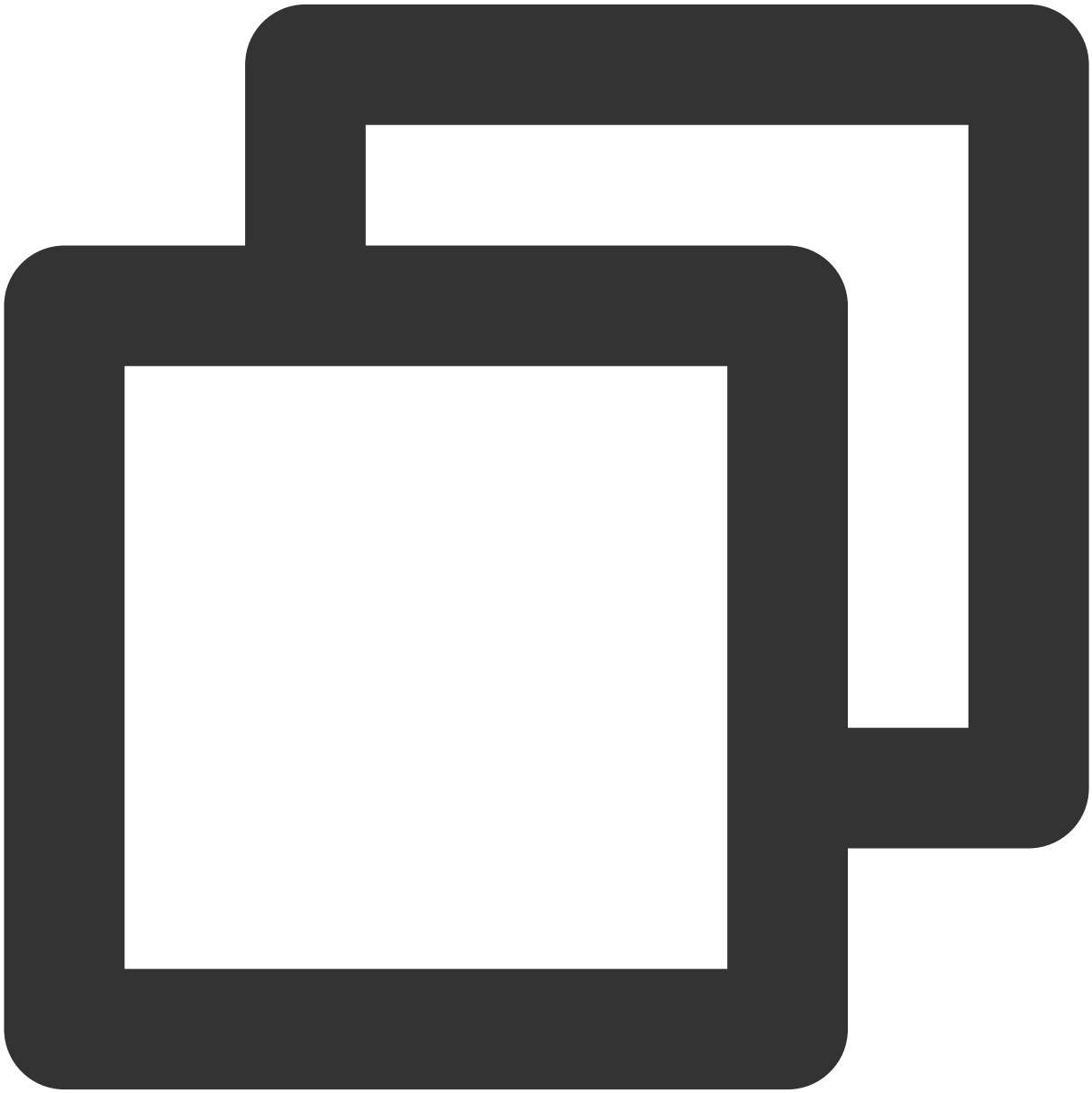

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:30:08+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j68427030f84611ecb8546d80f2baf56f</JobId>
        <Message>success</Message>
        <Operation>
            <MediaInfo>
                <Format>
                    <Duration>13</Duration>
                    <NumStream>1</NumStream>
                    <Size>1909389</Size>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.653</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>50.000</AvgFps>
                        <Bitrate>1031968</Bitrate>
                        <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                        <CodecName>hevc</CodecName>
                        <CodecTag>0x31637668</CodecTag>
                        <CodecTagString>hvc1</CodecTagString>
                        <CodecTimeBase>1/50</CodecTimeBase>
                        <ColorPrimaries>bt470bg</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>12.960</Duration>
                        <FieldOrder>Unknown</FieldOrder>
                        <Fps>50/1</Fps>
                        <HasBFrame>4</HasBFrame>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>4</Level>
```

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```
                        <NumFrames>648</NumFrames>
                        <PixFormat>hvc1</PixFormat>
                        <Profile>Main</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>540</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>2db78d168edf2f883adce89a1b4ca033</Md5>
                        <ObjectName>output/transcode.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/transcode.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/transcode.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t1995d523e42df4c5e858f244b4174360c</TemplateId>
            <TemplateName>trans_993874</TemplateName>
            <UserData>This is my Transcode job.</UserData>
        </Operation>
        <Progress>100</Progress>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:42+0800</StartTime>
        <State>Success</State>
        <Tag>Transcode</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the transcoding job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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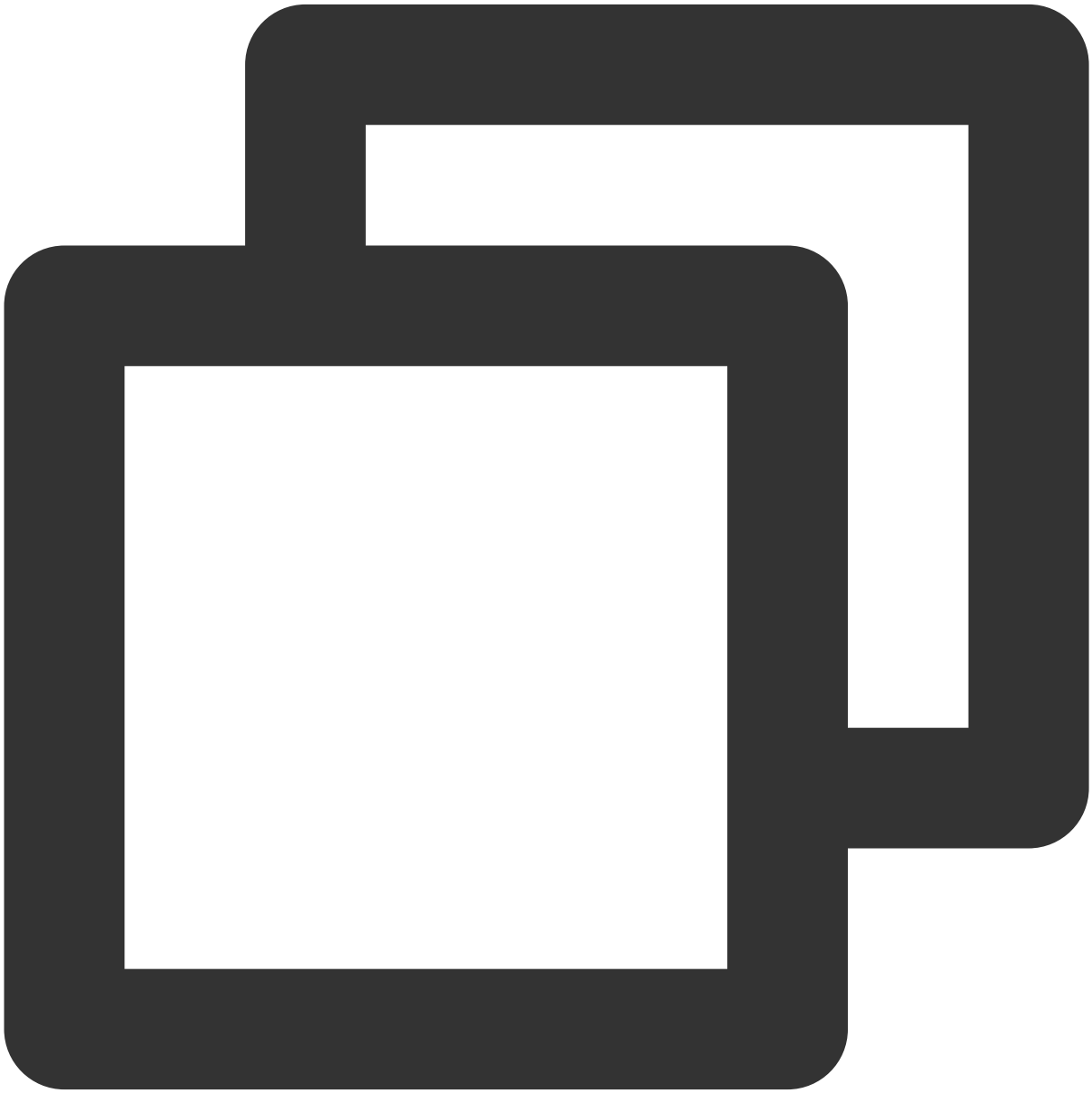

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:29:48+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j682b9662f84611ecb8546d80f2baf56f</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>97624.424000</Bitrate>
                    <Duration>0.870000</Duration>
                    <FormatLongName>CompuServe Graphics Interchange Format (GIF)</F
                    <FormatName>gif</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>1</NumStream>
                    <Size>10616656</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio/>
                    <Subtitle/>
                    <Video>
                        <AvgFps>14.666667</AvgFps>
                        <CodecLongName>CompuServe GIF (Graphics Interchange Format)
                        <CodecName>gif</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/100</CodecTimeBase>
                        <ColorPrimaries>unknown</ColorPrimaries>
                        <ColorRange>unknown</ColorRange>
                        <ColorTransfer>unknown</ColorTransfer>
                        <Duration>0.870000</Duration>
                        <Fps>15.083333</Fps>
                        <HasBFrame>0</HasBFrame>
                        <Height>2258</Height>
                        <Index>0</Index>
                        <Level>-99</Level>
                        <NumFrames>7</NumFrames>
                        <PixFormat>bgra</PixFormat>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/100</Timebase>
                        <Width>1280</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
```

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```
                        <Md5>3df1f845d2ffd20a525a93ec40014d90</Md5>
                        <ObjectName>output/animation.gif</ObjectName>
                    </Md5Info>
                    <ObjectName>output/animation.gif</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/animation.gif</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
            <TemplateName>template_name1512456</TemplateName>
            <UserData>This is my Animation job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:43+0800</StartTime>
        <State>Success</State>
        <Tag>Animation</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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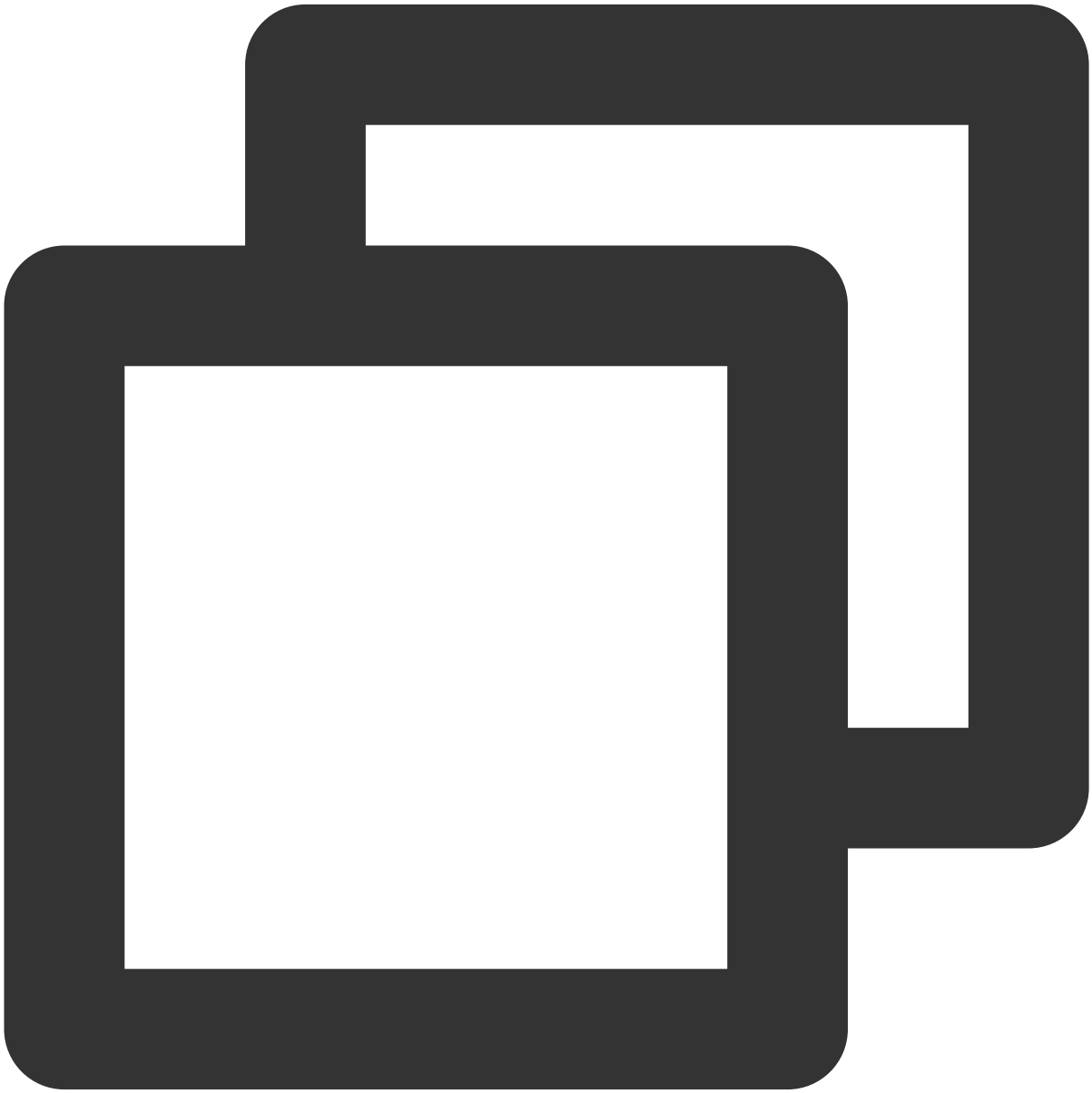

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T15:29:42+0800</CreationTime>
        <EndTime>2022-06-30T15:30:08+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>j68427030f84611ecb8546d80f2baf56f</JobId>
        <Message>success</Message>
        <Operation>
            <MediaInfo>
                <Format>
                    <Duration>13</Duration>
                    <NumStream>1</NumStream>
                    <Size>1909389</Size>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.653</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>50.000</AvgFps>
                        <Bitrate>1031968</Bitrate>
```

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```
                    <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                    <CodecName>hevc</CodecName>
                    <CodecTag>0x31637668</CodecTag>
                    <CodecTagString>hvc1</CodecTagString>
                    <CodecTimeBase>1/50</CodecTimeBase>
                    <ColorPrimaries>bt470bg</ColorPrimaries>
                    <ColorRange>tv</ColorRange>
                    <ColorTransfer>smpte170m</ColorTransfer>
                    <Duration>12.960</Duration>
                    <FieldOrder>Unknown</FieldOrder>
                    <Fps>50/1</Fps>
                    <HasBFrame>4</HasBFrame>
                    <Height>960</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>4</Level>
                    <NumFrames>648</NumFrames>
                    <PixFormat>hvc1</PixFormat>
                    <Profile>Main</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12800</Timebase>
                    <Width>540</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>2db78d168edf2f883adce89a1b4ca033</Md5>
                    <ObjectName>output/transcode.mp4</ObjectName>
                </Md5Info>
                <ObjectName>output/transcode.mp4</ObjectName>
                <ObjectPrefix/>
                <Region>ap-chongqing</Region>
            </OutputFile>
        </MediaResult>
        <Output>
            <Bucket>test-123456789</Bucket>
            <Object>output/transcode.mp4</Object>
            <Region>ap-chongqing</Region>
        </Output>
        <TemplateId>t1995d523e42df4c5e858f244b4174360c</TemplateId>
        <TemplateName>trans_993874</TemplateName>
        <UserData>This is my Transcode job.</UserData>
```

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```
        </Operation>
        <Progress>100</Progress>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T15:29:42+0800</StartTime>
        <State>Success</State>
        <Tag>Transcode</Tag>
        <Workflow>
            <Name>Transcode_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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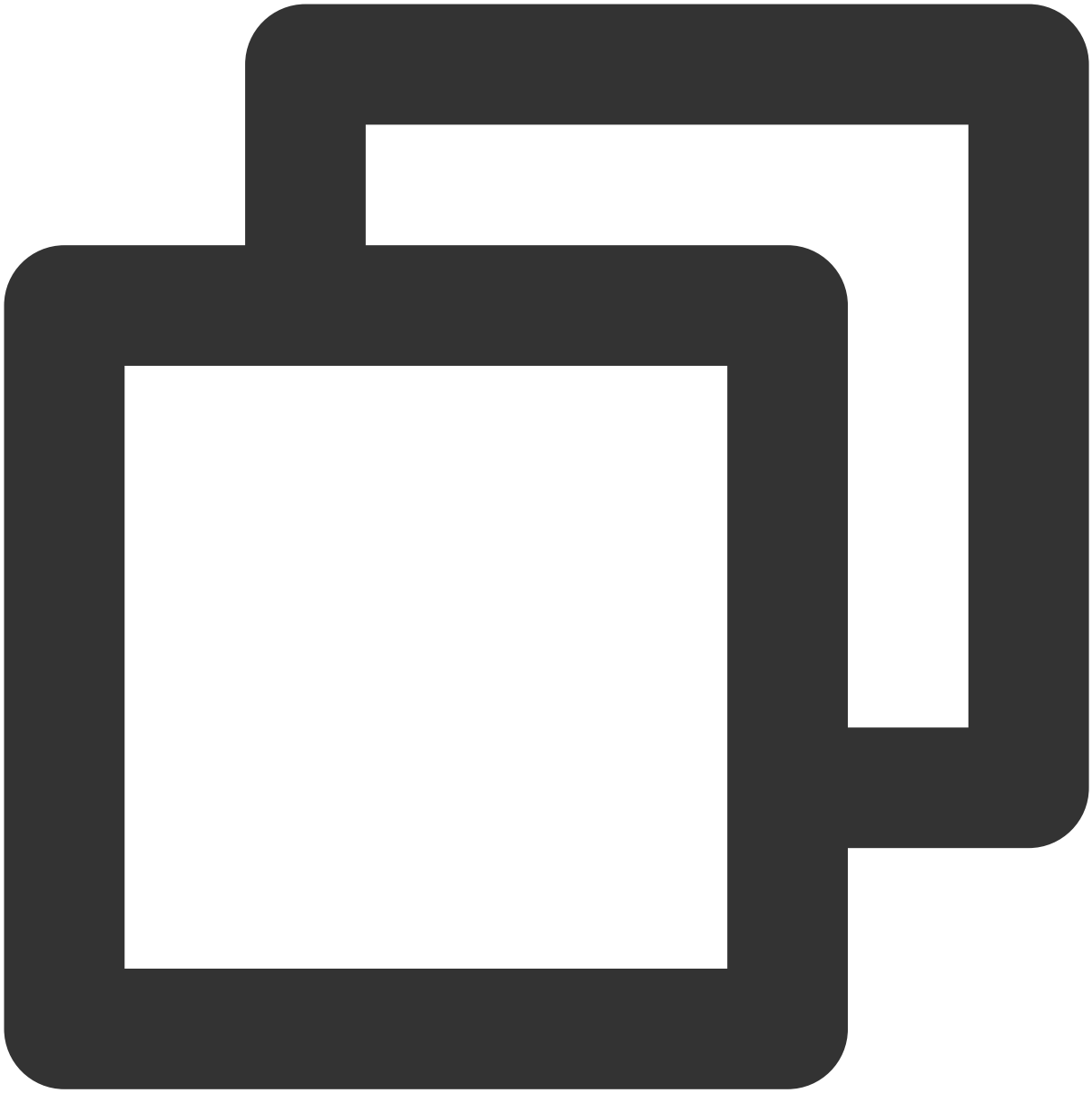

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T15:29:42+0800",
        "EndTime": "2022-06-30T15:30:08+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```

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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "j68427030f84611ecb8546d80f2baf56f",
        "Message": "success",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Duration": "13",
                    "NumStream": "1",
                    "Size": "1909389"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "128000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/44100",
                        "Duration": "13.653",
                        "Index": "1",
                        "Language": "und",
                        "SampleFmt": "fltp",
                        "SampleRate": "44100",
                        "StartTime": "0.000000",
                        "Timebase": "1/44100"
                    },
                    "Video": {
                        "AvgFps": "50.000",
                        "Bitrate": "1031968",
```


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```
                    "CodecLongName": "H.265 / HEVC (High Efficiency Video Codin
                    "CodecName": "hevc",
                    "CodecTag": "0x31637668",
                    "CodecTagString": "hvc1",
                    "CodecTimeBase": "1/50",
                    "ColorPrimaries": "bt470bg",
                    "ColorRange": "tv",
                    "ColorTransfer": "smpte170m",
                    "Duration": "12.960",
                    "FieldOrder": "Unknown",
                    "Fps": "50/1",
                    "HasBFrame": "4",
                    "Height": "960",
                    "Index": "0",
                    "Language": "und",
                    "Level": "4",
                    "NumFrames": "648",
                    "PixFormat": "hvc1",
                    "Profile": "Main",
                    "RefFrames": "1",
                    "Rotation": "0",
                    "StartTime": "0.000000",
                    "Timebase": "1/12800",
                    "Width": "540"
                }
            }
        },
        "MediaResult": {
            "OutputFile": {
                "Bucket": "test-123456789",
                "Md5Info": {
                    "Md5": "2db78d168edf2f883adce89a1b4ca033",
                    "ObjectName": "output/transcode.mp4"
                },
                "ObjectName": "output/transcode.mp4",
                "Region": "ap-chongqing"
            }
        },
        "Output": {
            "Bucket": "test-123456789",
            "Object": "output/transcode.mp4",
            "Region": "ap-chongqing"
        },
        "TemplateId": "t1995d523e42df4c5e858f244b4174360c",
        "TemplateName": "trans_993874",
        "UserData": "This is my Transcode job."
    },
```


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```
        "Progress": "100",
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T15:29:42+0800",
        "State": "Success",
        "Tag": "Transcode",
        "Workflow": {
            "Name": "Transcode_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Text to Speech

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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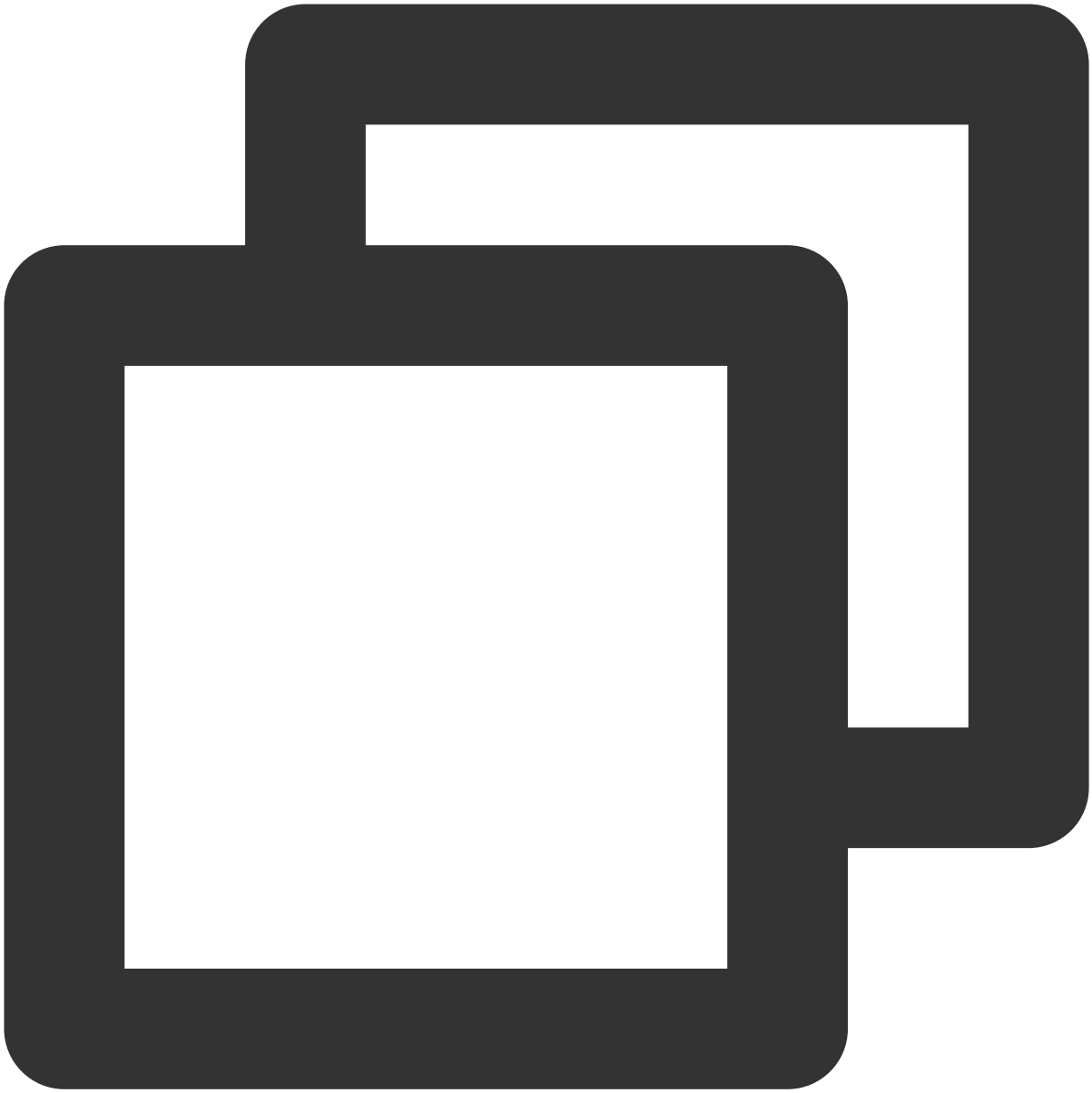

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:33:18+0800</CreationTime>
        <EndTime>2022-06-30T19:33:24+0800</EndTime>
        <JobId>j707f4864f86811ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format/>
```

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```
                <Stream>
                    <Audio>
                        <CodecName>mp3</CodecName>
                        <SampleRate>16000</SampleRate>
                    </Audio>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>5b2ca33cd7357abb1e0ea29f57544df9</Md5>
                        <ObjectName>/output/aixiaonan.mp3</ObjectName>
                    </Md5Info>
                    <ObjectName>/output/aixiaonan.mp3</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/aixiaonan.mp3</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TtsConfig>
                <Input>Hi, I'm Aixiaonan. Nice to meet you.</Input>
                <InputType>Text</InputType>
            </TtsConfig>
            <TemplateId>t1f1ae1dfsdc9ds41dsb31632d457ds6s2a</TemplateId>
            <TemplateName>template_tts</TemplateName>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:33:19+0800</StartTime>
        <State>Success</State>
        <Tag>Tts</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the text-to-speech job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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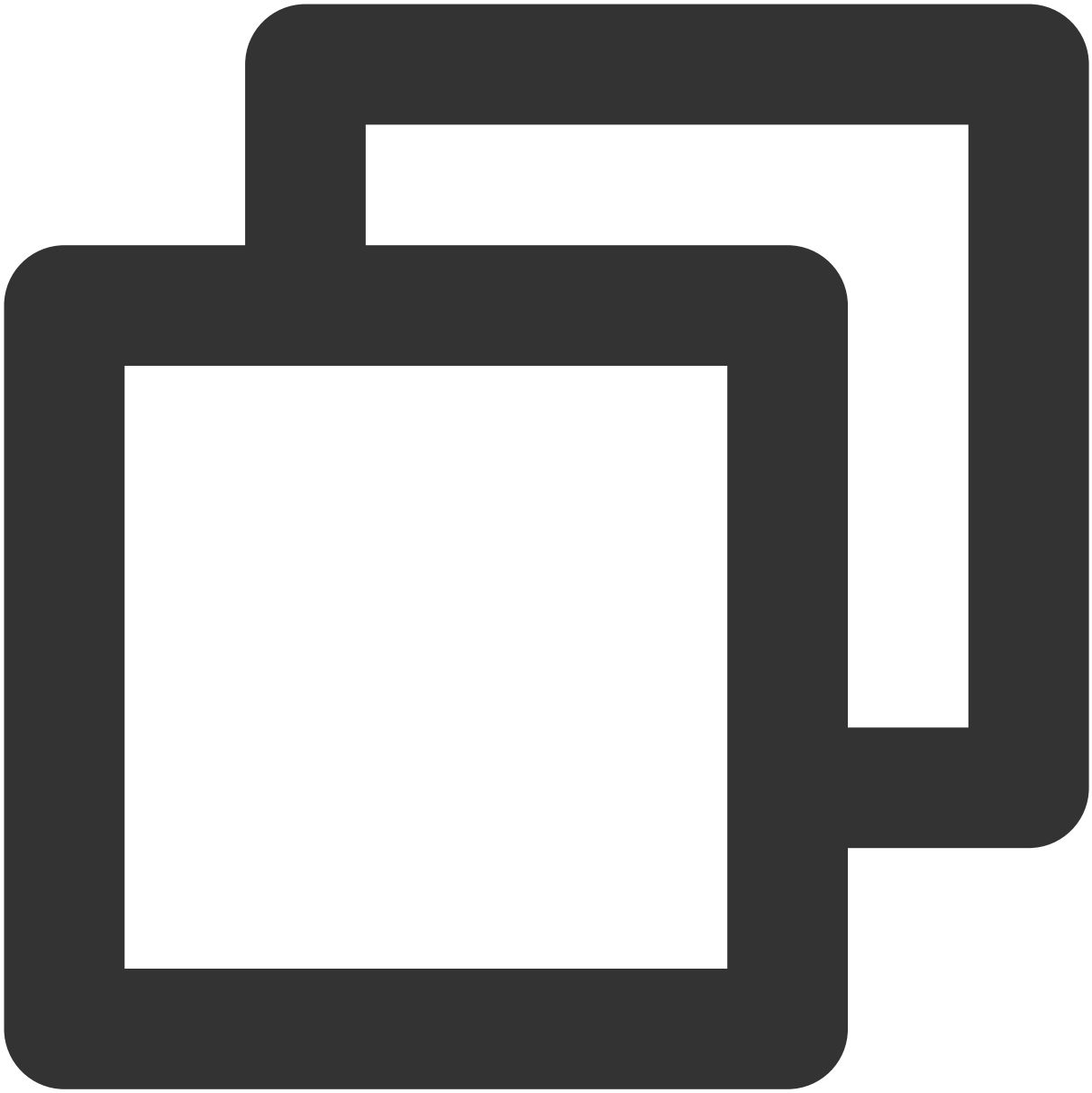

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:33:18+0800</CreationTime>
        <EndTime>2022-06-30T19:33:24+0800</EndTime>
        <JobId>j707f4864f86811ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format/>
```

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```
                <Stream>
                    <Audio>
                        <CodecName>mp3</CodecName>
                        <SampleRate>16000</SampleRate>
                    </Audio>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>5b2ca33cd7357abb1e0ea29f57544df9</Md5>
                        <ObjectName>/output/aixiaonan.mp3</ObjectName>
                    </Md5Info>
                    <ObjectName>/output/aixiaonan.mp3</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/aixiaonan.mp3</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TtsConfig>
                <Input>Hi, I'm Aixiaonan. Nice to meet you.</Input>
                <InputType>Text</InputType>
            </TtsConfig>
            <TemplateId>t1f1ae1dfsdc9ds41dsb31632d457ds6s2a</TemplateId>
            <TemplateName>template_tts</TemplateName>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:33:19+0800</StartTime>
        <State>Success</State>
        <Tag>Tts</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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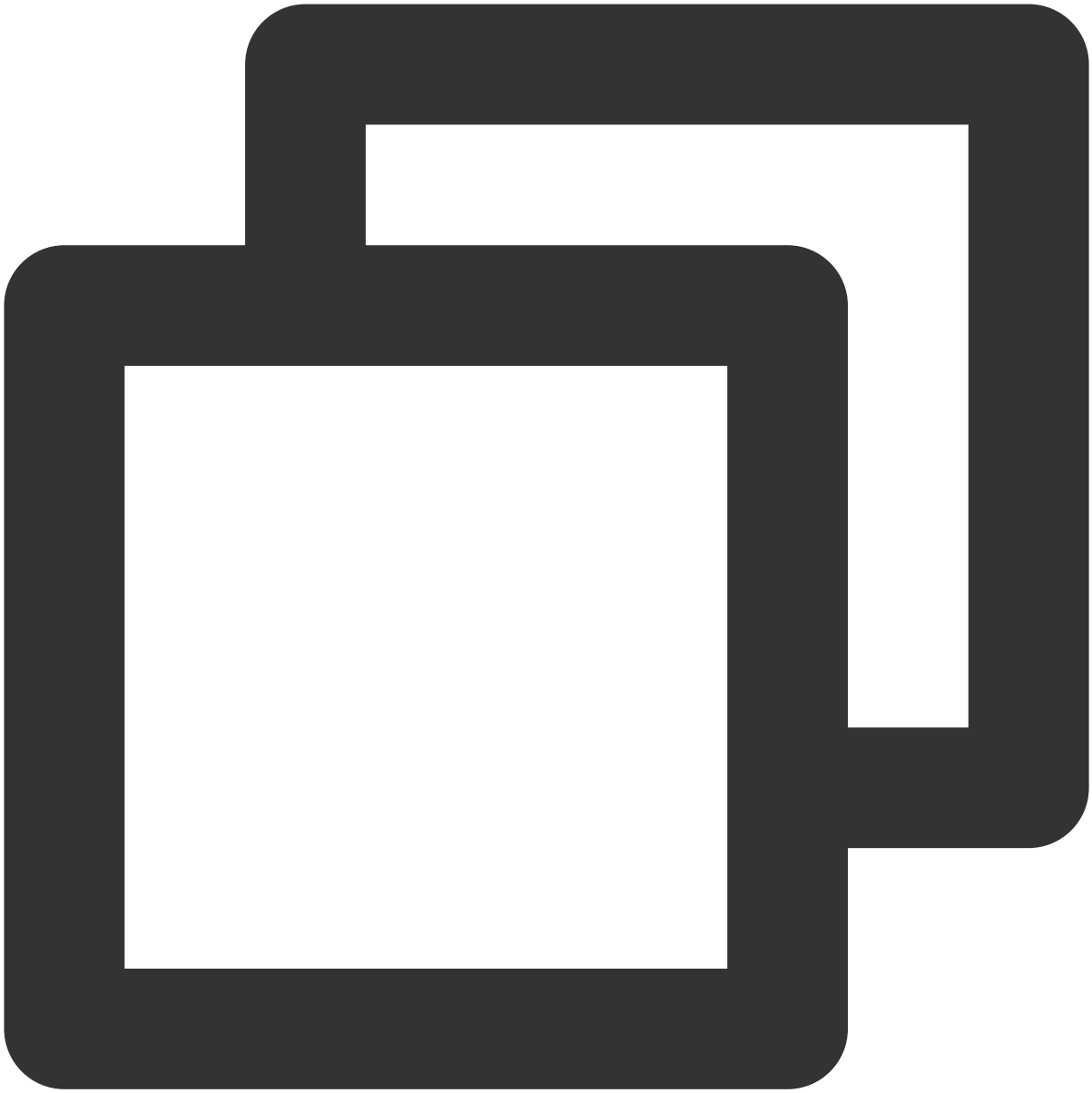

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:33:18+0800</CreationTime>
        <EndTime>2022-06-30T19:33:24+0800</EndTime>
        <JobId>j707f4864f86811ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <Input>
                <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>application/octet-stream</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>265</Value>
            </CosHeaders>
        </Input>
        <MediaInfo>
            <Format/>
            <Stream>
                <Audio>
                    <CodecName>mp3</CodecName>
                    <SampleRate>16000</SampleRate>
                </Audio>
                <Subtitle/>
                <Video/>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>5b2ca33cd7357abb1e0ea29f57544df9</Md5>
                    <ObjectName>/output/aixiaonan.mp3</ObjectName>
                </Md5Info>
                <ObjectName>/output/aixiaonan.mp3</ObjectName>
                <ObjectPrefix/>
                <Region>ap-chongqing</Region>
            </OutputFile>
        </MediaResult>
        <Output>
            <Bucket>test-123456789</Bucket>
            <Object>output/aixiaonan.mp3</Object>
            <Region>ap-chongqing</Region>
        </Output>
        <TtsConfig>
            <Input>https://test-123456789.cos.ap-chongqing.myqcloud.com/input/t
            <InputType>Url</InputType>
```

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```
            </TtsConfig>
            <TemplateId>t1f1ae1dfsdc9ds41dsb31632d457ds6s2a</TemplateId>
            <TemplateName>template_tts</TemplateName>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T19:33:19+0800</StartTime>
        <State>Success</State>
        <Tag>Tts</Tag>
        <Workflow>
            <Name>Tts_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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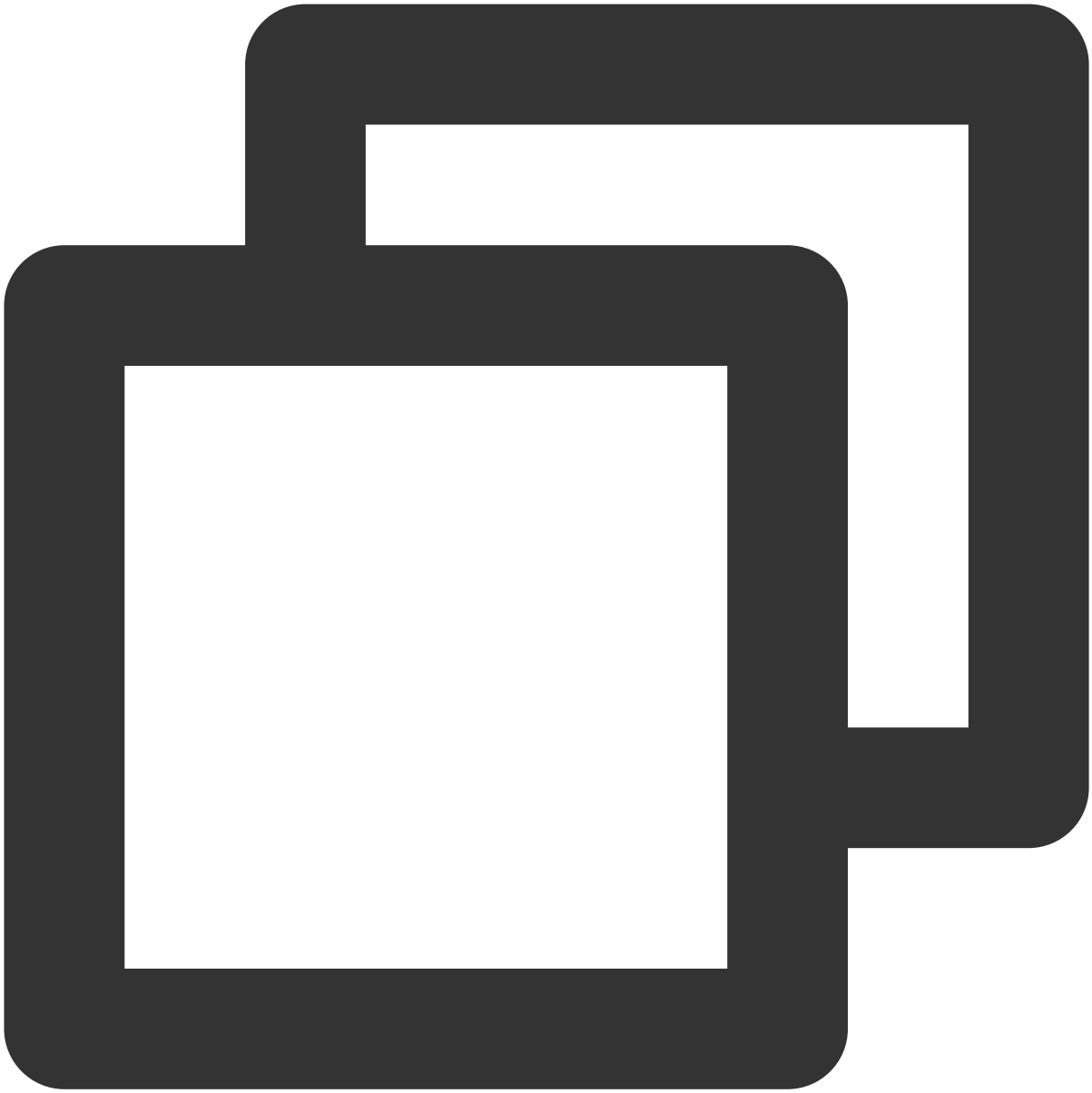

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T19:33:18+0800",
        "EndTime": "2022-06-30T19:33:24+0800",
        "JobId": "j707f4864f86811ecb90d0b03267ce0e5",
        "Operation": {
            "Input": {
                "CosHeaders": [{
                        "Key": "Content-Type",
```

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```
                        "Value": "application/octet-stream"
                    },
                    {
                        "Key": "x-cos-request-id",
                        "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                    },
                    {
                        "Key": "EventName",
                        "Value": "cos:ObjectCreated:Put"
                    },
                    {
                        "Key": "Size",
                        "Value": "265"
                    }
                ]
            },
            "MediaInfo": {
                "Stream": {
                    "Audio": {
                        "CodecName": "mp3",
                        "SampleRate": "16000"
                    }
                }
            },
            "MediaResult": {
                "OutputFile": {
                    "Bucket": "test-123456789",
                    "Md5Info": {
                        "Md5": "5b2ca33cd7357abb1e0ea29f57544df9",
                        "ObjectName": "/output/aixiaonan.mp3"
                    },
                    "ObjectName": "/output/aixiaonan.mp3",
                    "Region": "ap-chongqing"
                }
            },
            "Output": {
                "Bucket": "test-123456789",
                "Object": "output/aixiaonan.mp3",
                "Region": "ap-chongqing"
            },
            "TtsConfig": {
                "Input": "https://test-123456789.cos.ap-chongqing.myqcloud.com/inpu
                "InputType": "Url"
            },
            "TemplateId": "t1f1ae1dfsdc9ds41dsb31632d457ds6s2a",
            "TemplateName": "template_tts"
        },
```


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```
            "QueueId": "p2242ab62c7c94486915508540933a2c6",
            "StartTime": "2022-06-30T19:33:19+0800",
            "State": "Success",
            "Tag": "Tts",
            "Workflow": {
                "Name": "Tts_1581665960537",
                "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
                "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
                "WorkflowName": "workflow-test"
            }
        }
    }
```


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Video Montage

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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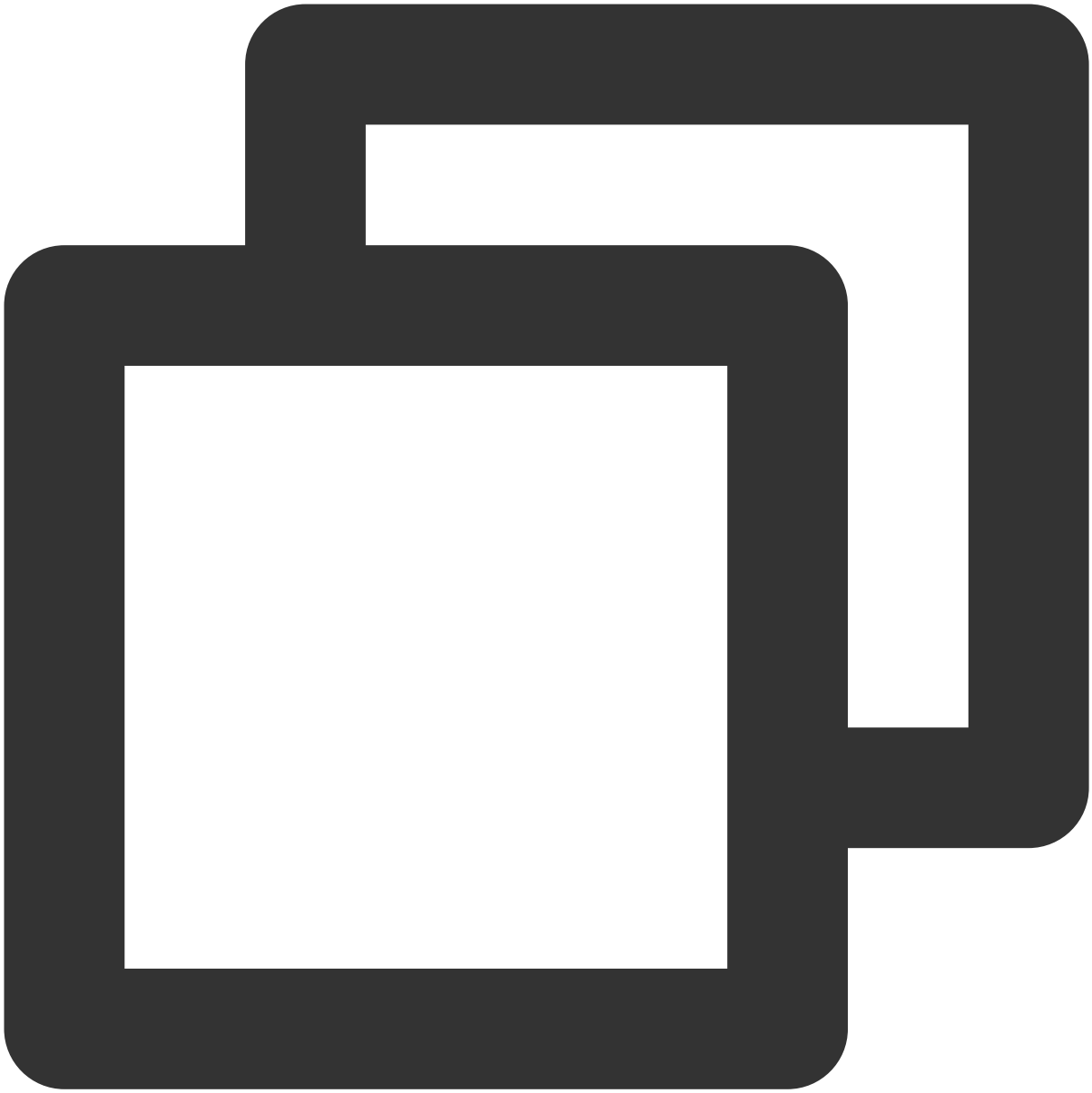

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:55:05+0800</CreationTime>
        <EndTime>2022-06-30T19:55:19+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j7b0dfbe2f86b11ec995acf5cffaf6664</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>14044.868000</Bitrate>
                    <Duration>2.067000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>3628843</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>126.400000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>2.066576</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>25.000000</AvgFps>
                        <Bitrate>14664.836000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/90000</CodecTimeBase>
                        <ColorPrimaries>bt470bg</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>1.960000</Duration>
                        <Fps>25.000000</Fps>
                        <HasBFrame>2</HasBFrame>
```

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```
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>41</Level>
                        <NumFrames>49</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.086000</StartTime>
                        <Timebase>1/90000</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>6080b31ea94defa6c19cc4def539a291</Md5>
                        <ObjectName>output/videoMontage.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/videoMontage.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/videoMontage.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t164ac18da8bdc403fa27ac4b077a962a1</TemplateId>
            <TemplateName>videoMontage</TemplateName>
            <UserData>This is my VideoMontage job.</UserData>
        </Operation>
        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
        <StartTime>2022-06-30T19:55:05+0800</StartTime>
        <State>Success</State>
        <Tag>VideoMontage</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the video montage job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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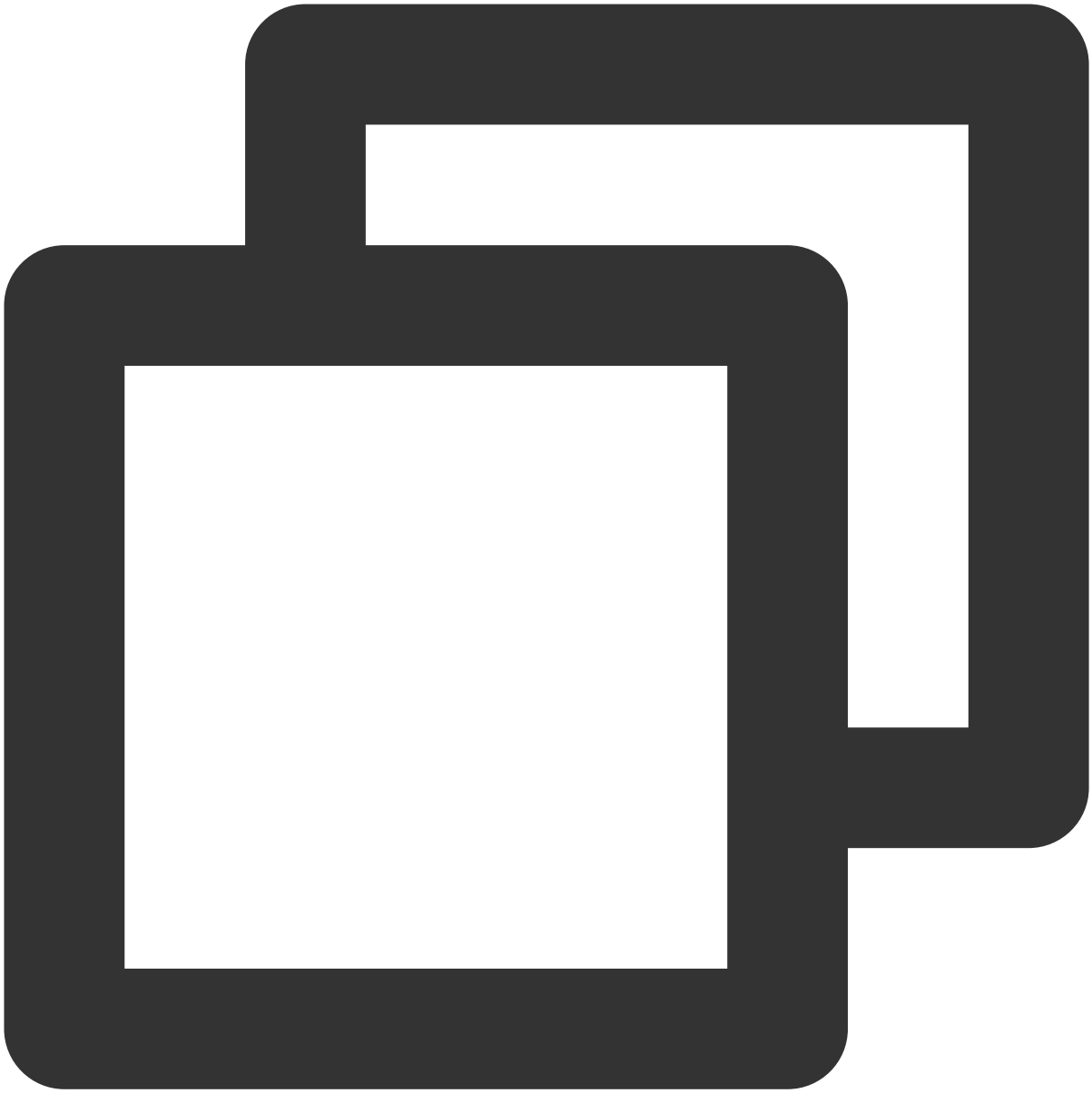

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:55:05+0800</CreationTime>
        <EndTime>2022-06-30T19:55:19+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j7b0dfbe2f86b11ec995acf5cffaf6664</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>14044.868000</Bitrate>
                    <Duration>2.067000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>3628843</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>126.400000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>2.066576</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>25.000000</AvgFps>
                        <Bitrate>14664.836000</Bitrate>
                        <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                        <CodecName>h264</CodecName>
                        <CodecTag>0x31637661</CodecTag>
                        <CodecTagString>avc1</CodecTagString>
                        <CodecTimeBase>1/90000</CodecTimeBase>
                        <ColorPrimaries>bt470bg</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>1.960000</Duration>
                        <Fps>25.000000</Fps>
                        <HasBFrame>2</HasBFrame>
```

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```
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>41</Level>
                        <NumFrames>49</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>High</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.086000</StartTime>
                        <Timebase>1/90000</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>6080b31ea94defa6c19cc4def539a291</Md5>
                        <ObjectName>output/videoMontage.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/videoMontage.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/videoMontage.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t164ac18da8bdc403fa27ac4b077a962a1</TemplateId>
            <TemplateName>videoMontage</TemplateName>
            <UserData>This is my VideoMontage job.</UserData>
        </Operation>
        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
        <StartTime>2022-06-30T19:55:05+0800</StartTime>
        <State>Success</State>
        <Tag>VideoMontage</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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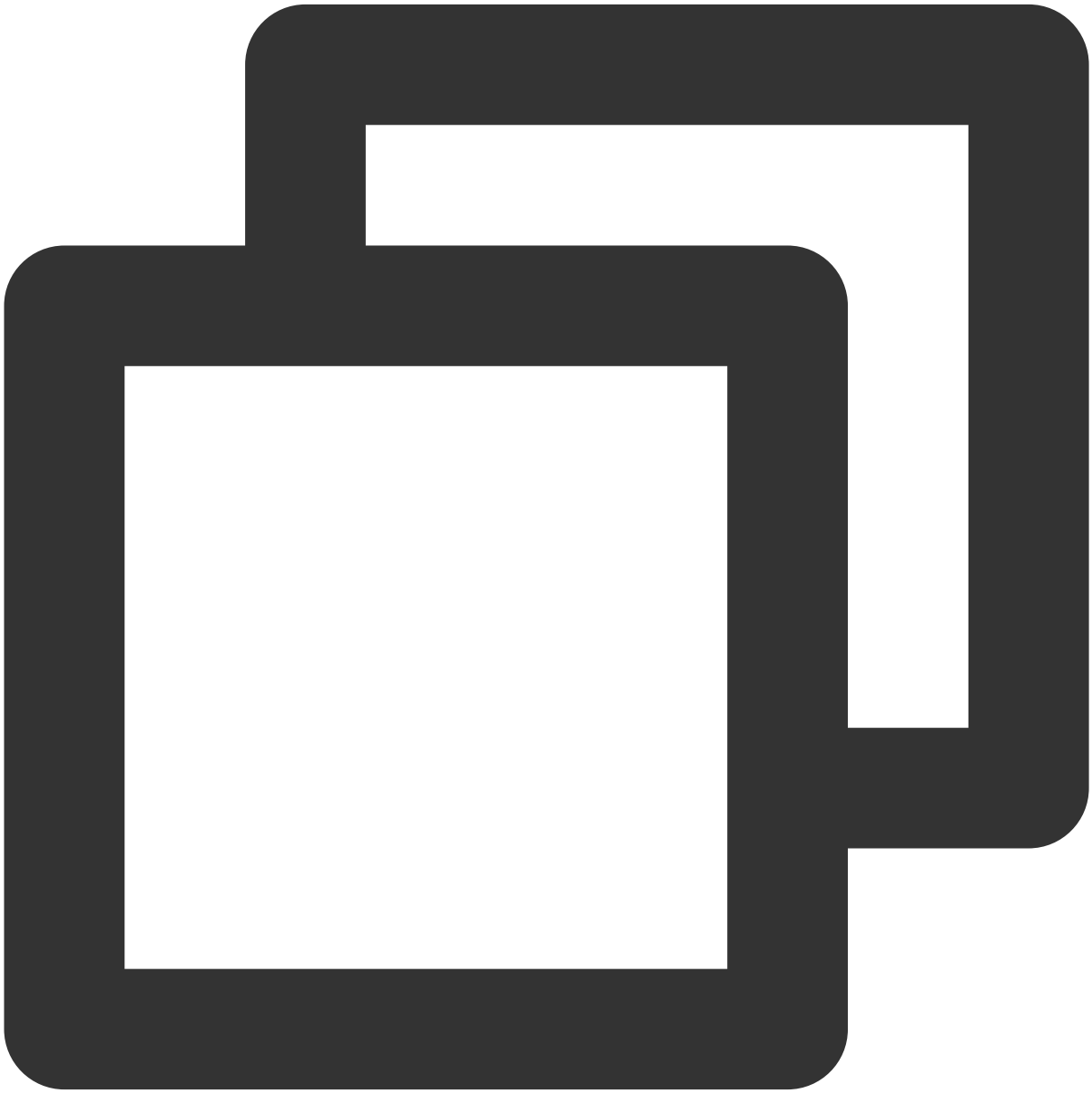

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T19:55:05+0800</CreationTime>
        <EndTime>2022-06-30T19:55:19+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>j7b0dfbe2f86b11ec995acf5cffaf6664</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>14044.868000</Bitrate>
                    <Duration>2.067000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>3628843</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>126.400000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>2.066576</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
```

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```
                </Audio>
                <Subtitle/>
                <Video>
                    <AvgFps>25.000000</AvgFps>
                    <Bitrate>14664.836000</Bitrate>
                    <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</C
                    <CodecName>h264</CodecName>
                    <CodecTag>0x31637661</CodecTag>
                    <CodecTagString>avc1</CodecTagString>
                    <CodecTimeBase>1/90000</CodecTimeBase>
                    <ColorPrimaries>bt470bg</ColorPrimaries>
                    <ColorRange>tv</ColorRange>
                    <ColorTransfer>smpte170m</ColorTransfer>
                    <Duration>1.960000</Duration>
                    <Fps>25.000000</Fps>
                    <HasBFrame>2</HasBFrame>
                    <Height>960</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>41</Level>
                    <NumFrames>49</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>High</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.086000</StartTime>
                    <Timebase>1/90000</Timebase>
                    <Width>544</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>6080b31ea94defa6c19cc4def539a291</Md5>
                    <ObjectName>output/videoMontage.mp4</ObjectName>
                </Md5Info>
                <ObjectName>output/videoMontage.mp4</ObjectName>
                <ObjectPrefix/>
                <Region>ap-chongqing</Region>
            </OutputFile>
        </MediaResult>
        <Output>
            <Bucket>test-123456789</Bucket>
            <Object>output/videoMontage.mp4</Object>
            <Region>ap-chongqing</Region>
```

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```
            </Output>
            <TemplateId>t164ac18da8bdc403fa27ac4b077a962a1</TemplateId>
            <TemplateName>videoMontage</TemplateName>
            <UserData>This is my VideoMontage job.</UserData>
        </Operation>
        <QueueId>p09d709939fef48a0a5c247ef39d90cec</QueueId>
        <StartTime>2022-06-30T19:55:05+0800</StartTime>
        <State>Success</State>
        <Tag>VideoMontage</Tag>
        <Workflow>
            <Name>VideoMontage_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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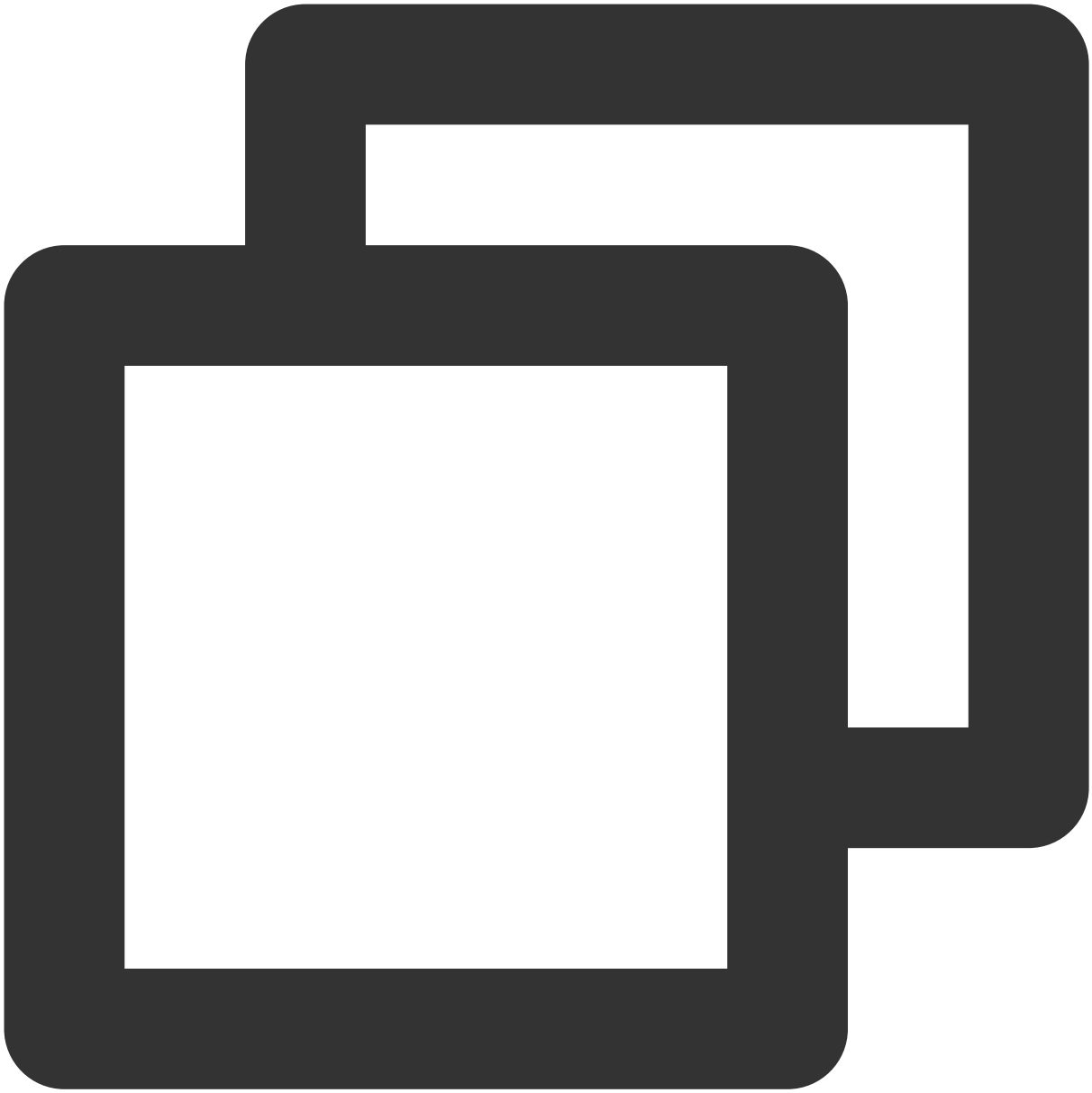


```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T19:55:05+0800",
        "EndTime": "2022-06-30T19:55:19+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```


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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "j7b0dfbe2f86b11ec995acf5cffaf6664",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "14044.868000",
                    "Duration": "2.067000",
                    "FormatLongName": "QuickTime / MOV",
                    "FormatName": "mov,mp4,m4a,3gp,3g2,mj2",
                    "NumProgram": "0",
                    "NumStream": "2",
                    "Size": "3628843",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "126.400000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/44100",
                        "Duration": "2.066576",
                        "Index": "1",
                        "Language": "und",
                        "SampleFmt": "fltp",
                        "SampleRate": "44100",
                        "StartTime": "0.000000",
                        "Timebase": "1/44100"
```


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```
                },
                "Video": {
                    "AvgFps": "25.000000",
                    "Bitrate": "14664.836000",
                    "CodecLongName": "H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
                    "CodecName": "h264",
                    "CodecTag": "0x31637661",
                    "CodecTagString": "avc1",
                    "CodecTimeBase": "1/90000",
                    "ColorPrimaries": "bt470bg",
                    "ColorRange": "tv",
                    "ColorTransfer": "smpte170m",
                    "Duration": "1.960000",
                    "Fps": "25.000000",
                    "HasBFrame": "2",
                    "Height": "960",
                    "Index": "0",
                    "Language": "und",
                    "Level": "41",
                    "NumFrames": "49",
                    "PixFormat": "yuv420p",
                    "Profile": "High",
                    "RefFrames": "1",
                    "Rotation": "0.000000",
                    "StartTime": "0.086000",
                    "Timebase": "1/90000",
                    "Width": "544"
                }
            }
        },
        "MediaResult": {
            "OutputFile": {
                "Bucket": "test-123456789",
                "Md5Info": {
                    "Md5": "6080b31ea94defa6c19cc4def539a291",
                    "ObjectName": "output/videoMontage.mp4"
                },
                "ObjectName": "output/videoMontage.mp4",
                "Region": "ap-chongqing"
            }
        },
        "Output": {
            "Bucket": "test-123456789",
            "Object": "output/videoMontage.mp4",
            "Region": "ap-chongqing"
        },
        "TemplateId": "t164ac18da8bdc403fa27ac4b077a962a1",
```


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```
            "TemplateName": "videoMontage",
            "UserData": "This is my VideoMontage job."
        },
        "QueueId": "p09d709939fef48a0a5c247ef39d90cec",
        "StartTime": "2022-06-30T19:55:05+0800",
        "State": "Success",
        "Tag": "VideoMontage",
        "Workflow": {
            "Name": "VideoMontage_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Video Enhancement

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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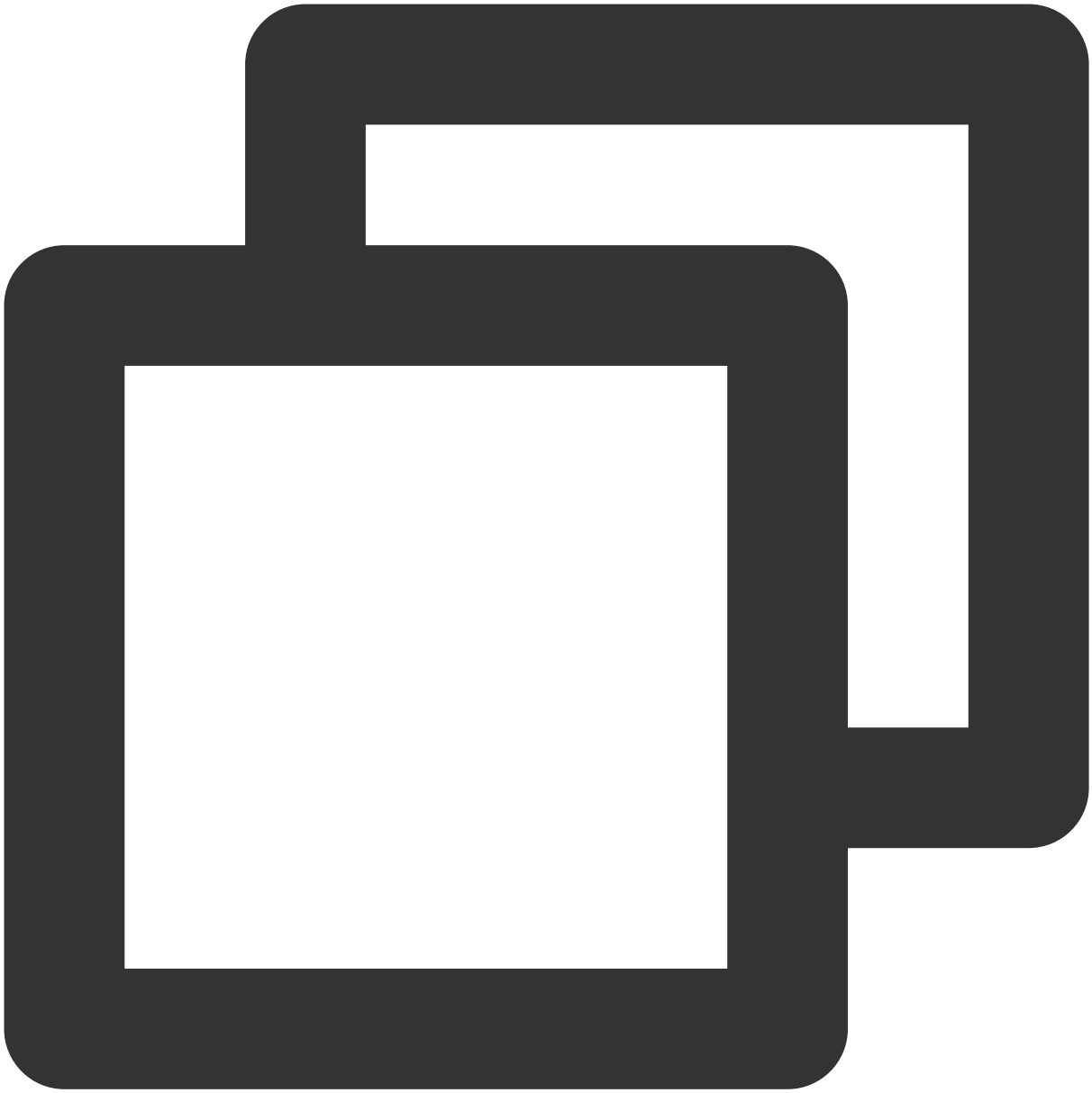

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T20:02:17+0800</CreationTime>
        <EndTime>2022-06-30T20:02:34+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j7d0eafdaf86c11ecbdf419856486c0ab</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>10269.090000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>17526771</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.652993</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>24.922840</AvgFps>
                        <Bitrate>10674.365000</Bitrate>
                        <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                        <CodecName>hevc</CodecName>
                        <CodecTag>0x31766568</CodecTag>
                        <CodecTagString>hev1</CodecTagString>
                        <CodecTimeBase>1/12800</CodecTimeBase>
                        <ColorPrimaries>bt470bg</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>12.960000</Duration>
                        <FieldOrder>progressive</FieldOrder>
                        <Fps>25.000000</Fps>
```

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```
                        <HasBFrame>2</HasBFrame>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>93</Level>
                        <NumFrames>323</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>Main</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>a825aa6c59371509995a47b570c29297</Md5>
                        <ObjectName>output/video-process.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/video-process.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/video-process.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
            <TemplateId>t1f4ac18da8bdc403fa27ac4bfn77a62a1</TemplateId>
            <TemplateName>videoProcess_12654</TemplateName>
            <UserData>This is my VideoProcess job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T20:02:18+0800</StartTime>
        <State>Success</State>
        <Tag>VideoProcess</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the video enhancement job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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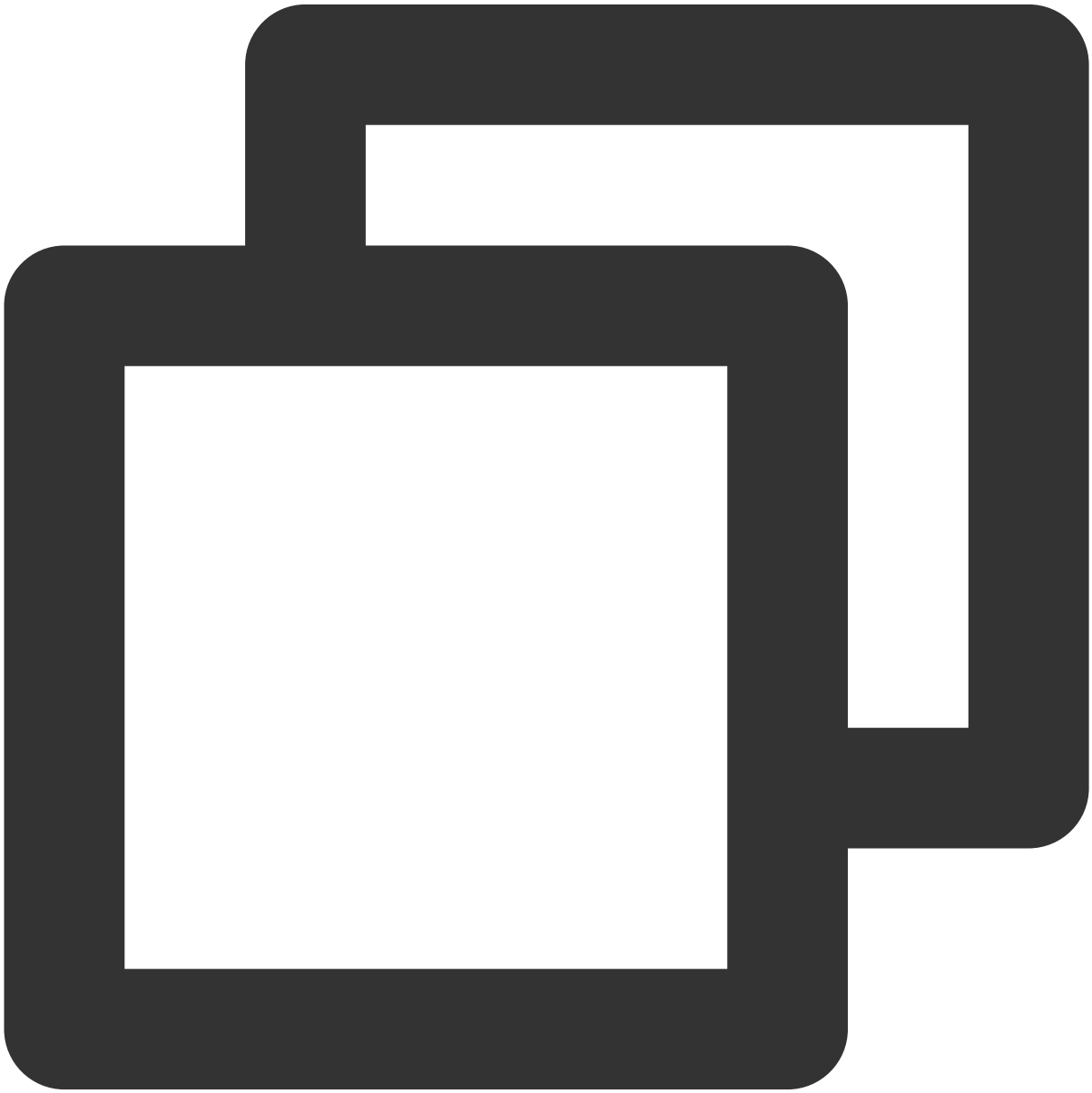

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T20:02:17+0800</CreationTime>
        <EndTime>2022-06-30T20:02:34+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j7d0eafdaf86c11ecbdf419856486c0ab</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>10269.090000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>17526771</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.652993</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video>
                        <AvgFps>24.922840</AvgFps>
                        <Bitrate>10674.365000</Bitrate>
                        <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                        <CodecName>hevc</CodecName>
                        <CodecTag>0x31766568</CodecTag>
                        <CodecTagString>hev1</CodecTagString>
                        <CodecTimeBase>1/12800</CodecTimeBase>
                        <ColorPrimaries>bt470bg</ColorPrimaries>
                        <ColorRange>tv</ColorRange>
                        <ColorTransfer>smpte170m</ColorTransfer>
                        <Duration>12.960000</Duration>
                        <FieldOrder>progressive</FieldOrder>
                        <Fps>25.000000</Fps>
```

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```
                        <HasBFrame>2</HasBFrame>
                        <Height>960</Height>
                        <Index>0</Index>
                        <Language>und</Language>
                        <Level>93</Level>
                        <NumFrames>323</NumFrames>
                        <PixFormat>yuv420p</PixFormat>
                        <Profile>Main</Profile>
                        <RefFrames>1</RefFrames>
                        <Rotation>0.000000</Rotation>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/12800</Timebase>
                        <Width>544</Width>
                    </Video>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>a825aa6c59371509995a47b570c29297</Md5>
                        <ObjectName>output/video-process.mp4</ObjectName>
                    </Md5Info>
                    <ObjectName>output/video-process.mp4</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>test-123456789</Bucket>
                <Object>output/video-process.mp4</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
            <TemplateId>t1f4ac18da8bdc403fa27ac4bfn77a62a1</TemplateId>
            <TemplateName>videoProcess_12654</TemplateName>
            <UserData>This is my VideoProcess job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T20:02:18+0800</StartTime>
        <State>Success</State>
        <Tag>VideoProcess</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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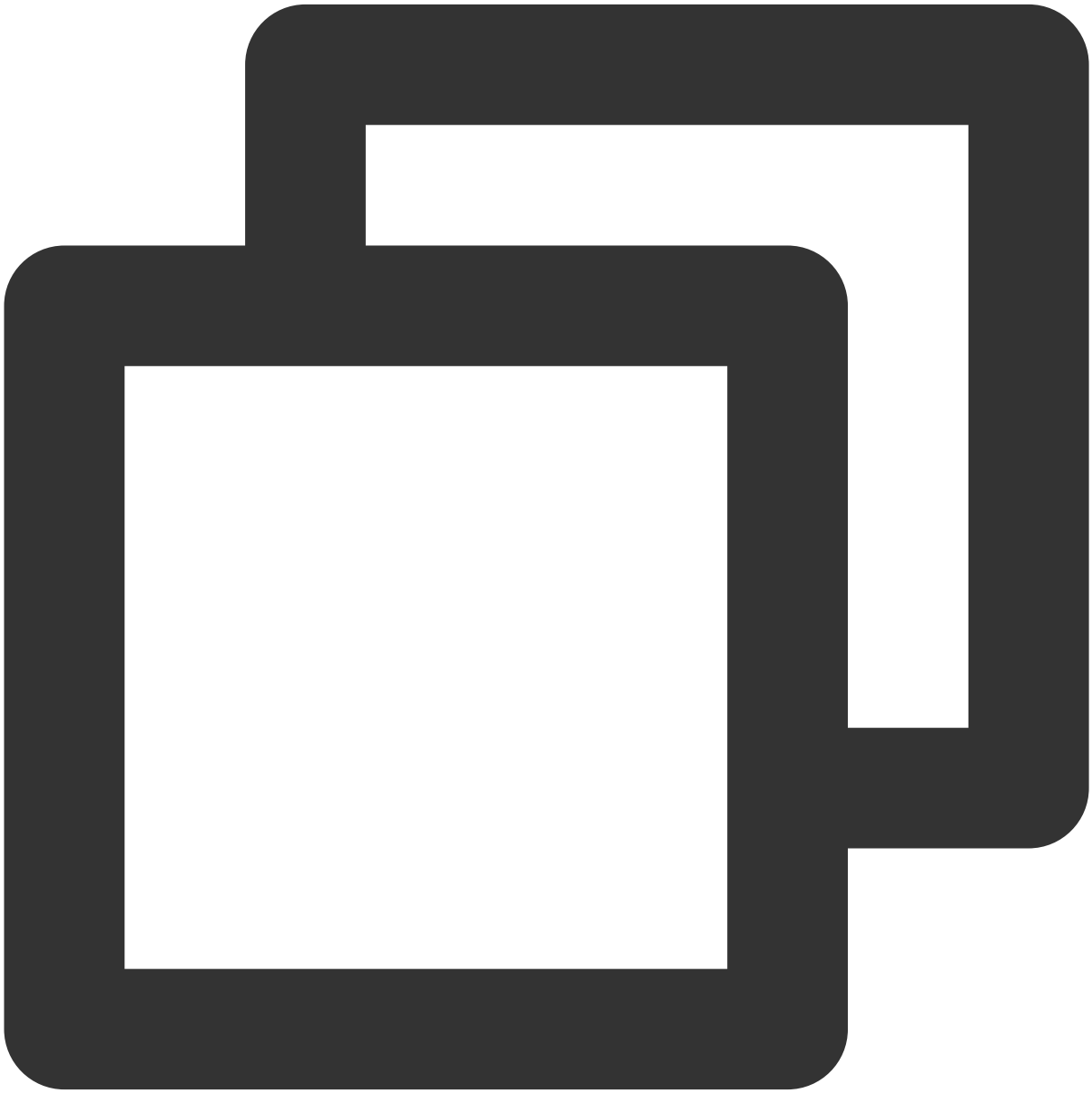

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-06-30T20:02:17+0800</CreationTime>
        <EndTime>2022-06-30T20:02:34+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp4</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1424687</Value>
            </CosHeaders>
        </Input>
        <JobId>j7d0eafdaf86c11ecbdf419856486c0ab</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>10269.090000</Bitrate>
                    <Duration>13.654000</Duration>
                    <FormatLongName>QuickTime / MOV</FormatLongName>
                    <FormatName>mov,mp4,m4a,3gp,3g2,mj2</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>2</NumStream>
                    <Size>17526771</Size>
                    <StartTime>0.000000</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.726000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
                        <CodecName>aac</CodecName>
                        <CodecTag>0x6134706d</CodecTag>
                        <CodecTagString>mp4a</CodecTagString>
                        <CodecTimeBase>1/44100</CodecTimeBase>
                        <Duration>13.652993</Duration>
                        <Index>1</Index>
                        <Language>und</Language>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.000000</StartTime>
                        <Timebase>1/44100</Timebase>
```

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```
                </Audio>
                <Subtitle/>
                <Video>
                    <AvgFps>24.922840</AvgFps>
                    <Bitrate>10674.365000</Bitrate>
                    <CodecLongName>H.265 / HEVC (High Efficiency Video Coding)<
                    <CodecName>hevc</CodecName>
                    <CodecTag>0x31766568</CodecTag>
                    <CodecTagString>hev1</CodecTagString>
                    <CodecTimeBase>1/12800</CodecTimeBase>
                    <ColorPrimaries>bt470bg</ColorPrimaries>
                    <ColorRange>tv</ColorRange>
                    <ColorTransfer>smpte170m</ColorTransfer>
                    <Duration>12.960000</Duration>
                    <FieldOrder>progressive</FieldOrder>
                    <Fps>25.000000</Fps>
                    <HasBFrame>2</HasBFrame>
                    <Height>960</Height>
                    <Index>0</Index>
                    <Language>und</Language>
                    <Level>93</Level>
                    <NumFrames>323</NumFrames>
                    <PixFormat>yuv420p</PixFormat>
                    <Profile>Main</Profile>
                    <RefFrames>1</RefFrames>
                    <Rotation>0.000000</Rotation>
                    <StartTime>0.000000</StartTime>
                    <Timebase>1/12800</Timebase>
                    <Width>544</Width>
                </Video>
            </Stream>
        </MediaInfo>
        <MediaResult>
            <OutputFile>
                <Bucket>test-123456789</Bucket>
                <Md5Info>
                    <Md5>a825aa6c59371509995a47b570c29297</Md5>
                    <ObjectName>output/video-process.mp4</ObjectName>
                </Md5Info>
                <ObjectName>output/video-process.mp4</ObjectName>
                <ObjectPrefix/>
                <Region>ap-chongqing</Region>
            </OutputFile>
        </MediaResult>
        <Output>
            <Bucket>test-123456789</Bucket>
            <Object>output/video-process.mp4</Object>
```

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```
                <Region>ap-chongqing</Region>
            </Output>
            <TranscodeTemplateId>t156c107210e7243c5817354565d81b578</TranscodeTempl
            <TemplateId>t1f4ac18da8bdc403fa27ac4bfn77a62a1</TemplateId>
            <TemplateName>videoProcess_12654</TemplateName>
            <UserData>This is my VideoProcess job.</UserData>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-06-30T20:02:18+0800</StartTime>
        <State>Success</State>
        <Tag>VideoProcess</Tag>
        <Workflow>
            <Name>VideoProcess_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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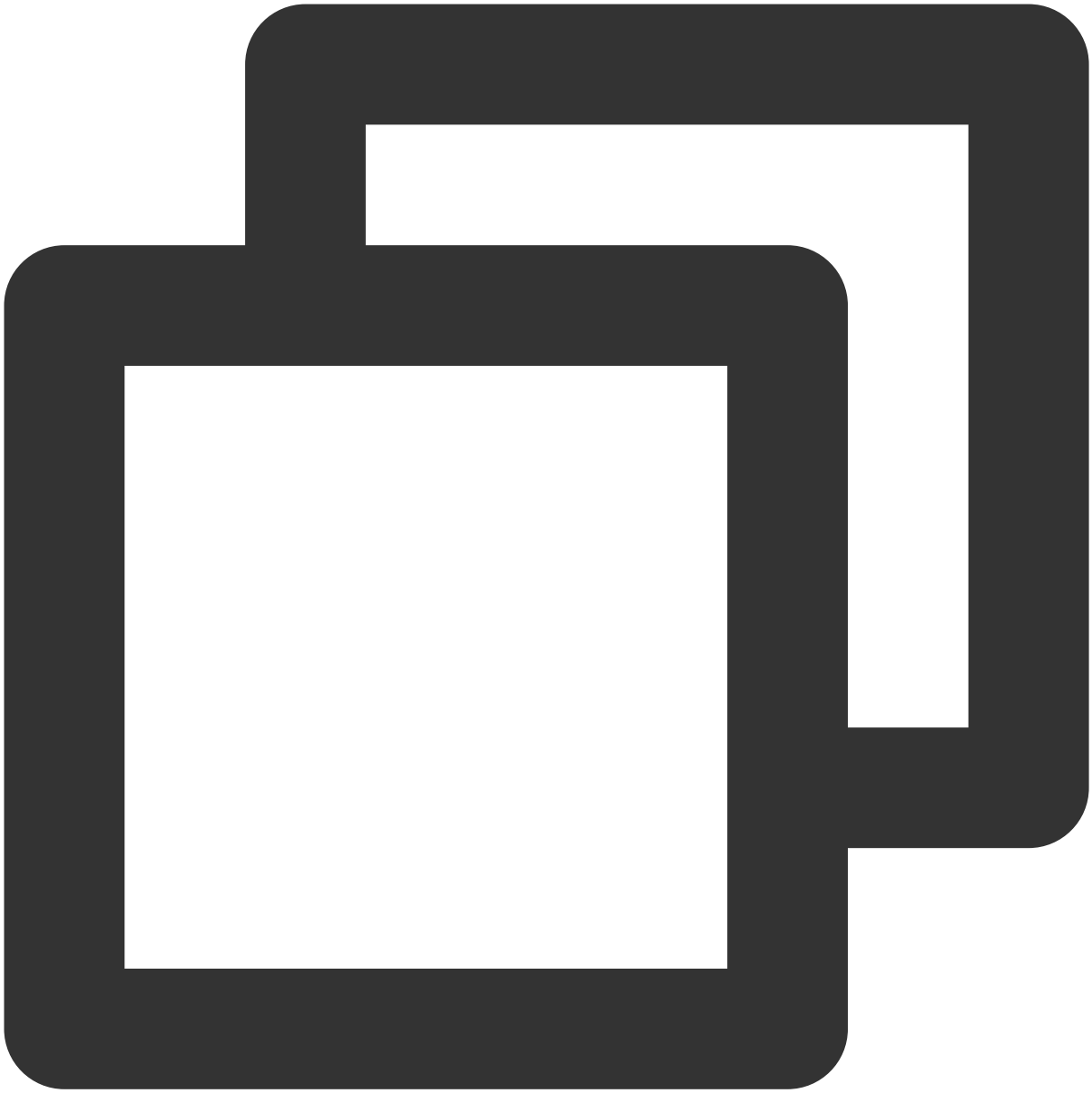

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-06-30T20:02:17+0800",
        "EndTime": "2022-06-30T20:02:34+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```

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```
                    "Key": "Content-Type",
                    "Value": "video/mp4"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1424687"
                }
            ]
        },
        "JobId": "j7d0eafdaf86c11ecbdf419856486c0ab",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "10269.090000",
                    "Duration": "13.654000",
                    "FormatLongName": "QuickTime / MOV",
                    "FormatName": "mov,mp4,m4a,3gp,3g2,mj2",
                    "NumProgram": "0",
                    "NumStream": "2",
                    "Size": "17526771",
                    "StartTime": "0.000000"
                },
                "Stream": {
                    "Audio": {
                        "Bitrate": "128.726000",
                        "Channel": "2",
                        "ChannelLayout": "stereo",
                        "CodecLongName": "AAC (Advanced Audio Coding)",
                        "CodecName": "aac",
                        "CodecTag": "0x6134706d",
                        "CodecTagString": "mp4a",
                        "CodecTimeBase": "1/44100",
                        "Duration": "13.652993",
                        "Index": "1",
                        "Language": "und",
                        "SampleFmt": "fltp",
                        "SampleRate": "44100",
                        "StartTime": "0.000000",
                        "Timebase": "1/44100"
```


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```
                },
                "Video": {
                    "AvgFps": "24.922840",
                    "Bitrate": "10674.365000",
                    "CodecLongName": "H.265 / HEVC (High Efficiency Video Codin
                    "CodecName": "hevc",
                    "CodecTag": "0x31766568",
                    "CodecTagString": "hev1",
                    "CodecTimeBase": "1/12800",
                    "ColorPrimaries": "bt470bg",
                    "ColorRange": "tv",
                    "ColorTransfer": "smpte170m",
                    "Duration": "12.960000",
                    "FieldOrder": "progressive",
                    "Fps": "25.000000",
                    "HasBFrame": "2",
                    "Height": "960",
                    "Index": "0",
                    "Language": "und",
                    "Level": "93",
                    "NumFrames": "323",
                    "PixFormat": "yuv420p",
                    "Profile": "Main",
                    "RefFrames": "1",
                    "Rotation": "0.000000",
                    "StartTime": "0.000000",
                    "Timebase": "1/12800",
                    "Width": "544"
                }
            }
        },
        "MediaResult": {
            "OutputFile": {
                "Bucket": "test-123456789",
                "Md5Info": {
                    "Md5": "a825aa6c59371509995a47b570c29297",
                    "ObjectName": "output/video-process.mp4"
                },
                "ObjectName": "output/video-process.mp4",
                "Region": "ap-chongqing"
            }
        },
        "Output": {
            "Bucket": "test-123456789",
            "Object": "output/video-process.mp4",
            "Region": "ap-chongqing"
        },
```


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```
            "TranscodeTemplateId": "t156c107210e7243c5817354565d81b578",
            "TemplateId": "t1f4ac18da8bdc403fa27ac4bfn77a62a1",
            "TemplateName": "videoProcess_12654",
            "UserData": "This is my VideoProcess job."
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-06-30T20:02:18+0800",
        "State": "Success",
        "Tag": "VideoProcess",
        "Workflow": {
            "Name": "VideoProcess_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```


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Video Tagging

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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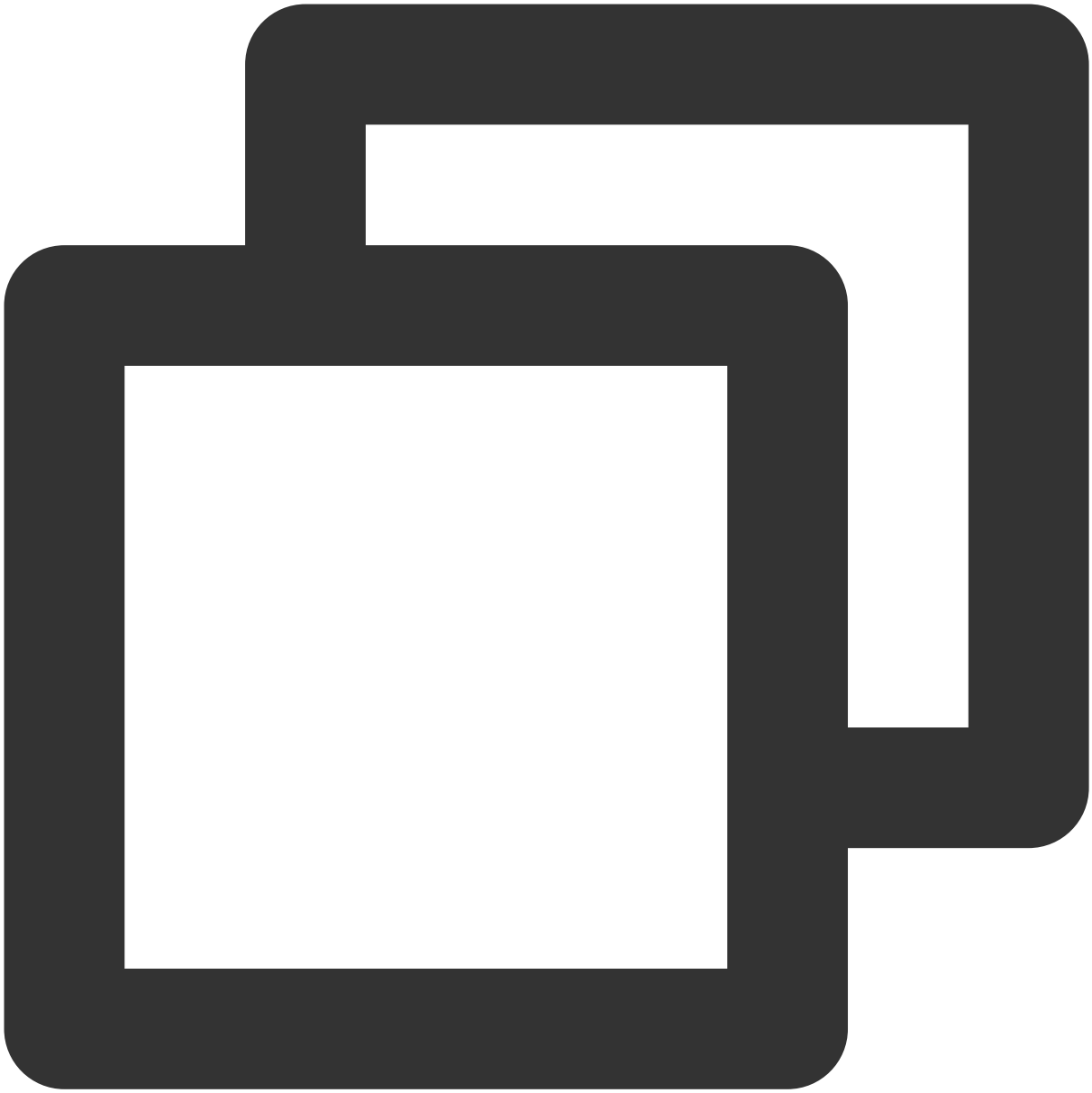

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-01T10:05:48+0800</CreationTime>
        <EndTime>2022-07-01T10:06:02+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j535b10a4f8e211ec9452c1c27f56a659</JobId>
        <Message>Success</Message>
        <Operation>
            <UserData>This is my VideoTag job.</UserData>
            <VideoTag>
                <Scenario>Stream</Scenario>
            </VideoTag>
            <VideoTagResult>
                <StreamData>
                    <Data>
                        <ActionTags>
                            <EndTime>11</EndTime>
                            <StartTime>0</StartTime>
                            <Tags>
                                <Confidence>0.421531</Confidence>
                                <Tag>Speak</Tag>
                                <TagCls>Speak</TagCls>
                            </Tags>
                        </ActionTags>
                        <ActionTags>
                            <EndTime>12.88</EndTime>
                            <StartTime>11.04</StartTime>
                            <Tags/>
                        </ActionTags>
                        <ObjectTags>
                            <Objects>
                                <BBox>
                                    <X1>0.10181817412376404</X1>
                                    <X2>0.8069194555282593</X2>
                                    <Y1>0.6880248785018921</Y1>
                                    <Y2>0.8779844045639038</Y2>
                                </BBox>
                                <Confidence>0.808393</Confidence>
                                <Name>Keyboard</Name>
                            </Objects>
                            <TimeStamp>11</TimeStamp>
                        </ObjectTags>
                        <PersonTags/>
                        <PlaceTags>
                            <ClipFrameResult>Office: 0.55</ClipFrameResult>
                            <ClipFrameResult>Office: 0.55</ClipFrameResult>
                            <ClipFrameResult>Office: 0.59</ClipFrameResult>
                            <ClipFrameResult>Office: 0.54</ClipFrameResult>
                            <ClipFrameResult>Office: 0.42</ClipFrameResult>
                            <ClipFrameResult>Office: 0.43</ClipFrameResult>
                            <ClipFrameResult>Office: 0.33</ClipFrameResult>
                            <ClipFrameResult>Office: 0.29</ClipFrameResult>
```

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```
                        <ClipFrameResult>Office: 0.15</ClipFrameResult>
                        <ClipFrameResult>Entertainment venue: 0.42</ClipFrameRe
                        <ClipFrameResult>Office: 0.33</ClipFrameResult>
                        <EndIndex>275</EndIndex>
                        <EndTime>11</EndTime>
                        <StartIndex>0</StartIndex>
                        <StartTime>0</StartTime>
                        <Tags>
                            <Confidence>0.591724</Confidence>
                            <Tag>Office</Tag>
                            <TagCls>Work</TagCls>
                        </Tags>
                        <Tags>
                            <Confidence>0.175342</Confidence>
                            <Tag>Supermarket/Convenience store/Store</Tag>
                            <TagCls>Business</TagCls>
                        </Tags>
                    </PlaceTags>
                    <PlaceTags>
                        <ClipFrameResult>Other: 0.09</ClipFrameResult>
                        <ClipFrameResult>Other: 0.21</ClipFrameResult>
                        <ClipFrameResult>Other: 0.19</ClipFrameResult>
                        <ClipFrameResult>Sky: 0.28</ClipFrameResult>
                        <ClipFrameResult>Sky: 0.25</ClipFrameResult>
                        <ClipFrameResult>Other: 0.30</ClipFrameResult>
                        <ClipFrameResult>Other: 0.28</ClipFrameResult>
                        <ClipFrameResult>Other: 0.49</ClipFrameResult>
                        <ClipFrameResult>Other: 0.56</ClipFrameResult>
                        <ClipFrameResult>Other: 0.58</ClipFrameResult>
                        <EndIndex>322</EndIndex>
                        <EndTime>12.88</EndTime>
                        <StartIndex>276</StartIndex>
                        <StartTime>11.04</StartTime>
                        <Tags>
                            <Confidence>0.581444</Confidence>
                            <Tag>Other</Tag>
                            <TagCls>Other</TagCls>
                        </Tags>
                        <Tags>
                            <Confidence>0.283301</Confidence>
                            <Tag>Sky</Tag>
                            <TagCls>Nature/Outdoor</TagCls>
                        </Tags>
                    </PlaceTags>
                    <Tags>
                        <Confidence>0.355083</Confidence>
                        <Tag>MOBA - Arena of Valor</Tag>
```

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```
                        </Tags>
                        <Tags>
                            <Confidence>0.587103</Confidence>
                            <Tag>Game</Tag>
                        </Tags>
                        <Tags>
                            <Confidence>0.544651</Confidence>
                            <Tag>Office</Tag>
                        </Tags>
                        <Tags>
                            <Confidence>0.182886</Confidence>
                            <Tag>Supermarket/Convenience store/Store</Tag>
                        </Tags>
                    </Data>
                    <SubErrCode>0</SubErrCode>
                    <SubErrMsg>ok</SubErrMsg>
                </StreamData>
            </VideoTagResult>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-07-01T10:05:50+0800</StartTime>
        <State>Success</State>
        <Tag>VideoTag</Tag>
        <VideoTag/>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish` .	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the video tagging job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

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`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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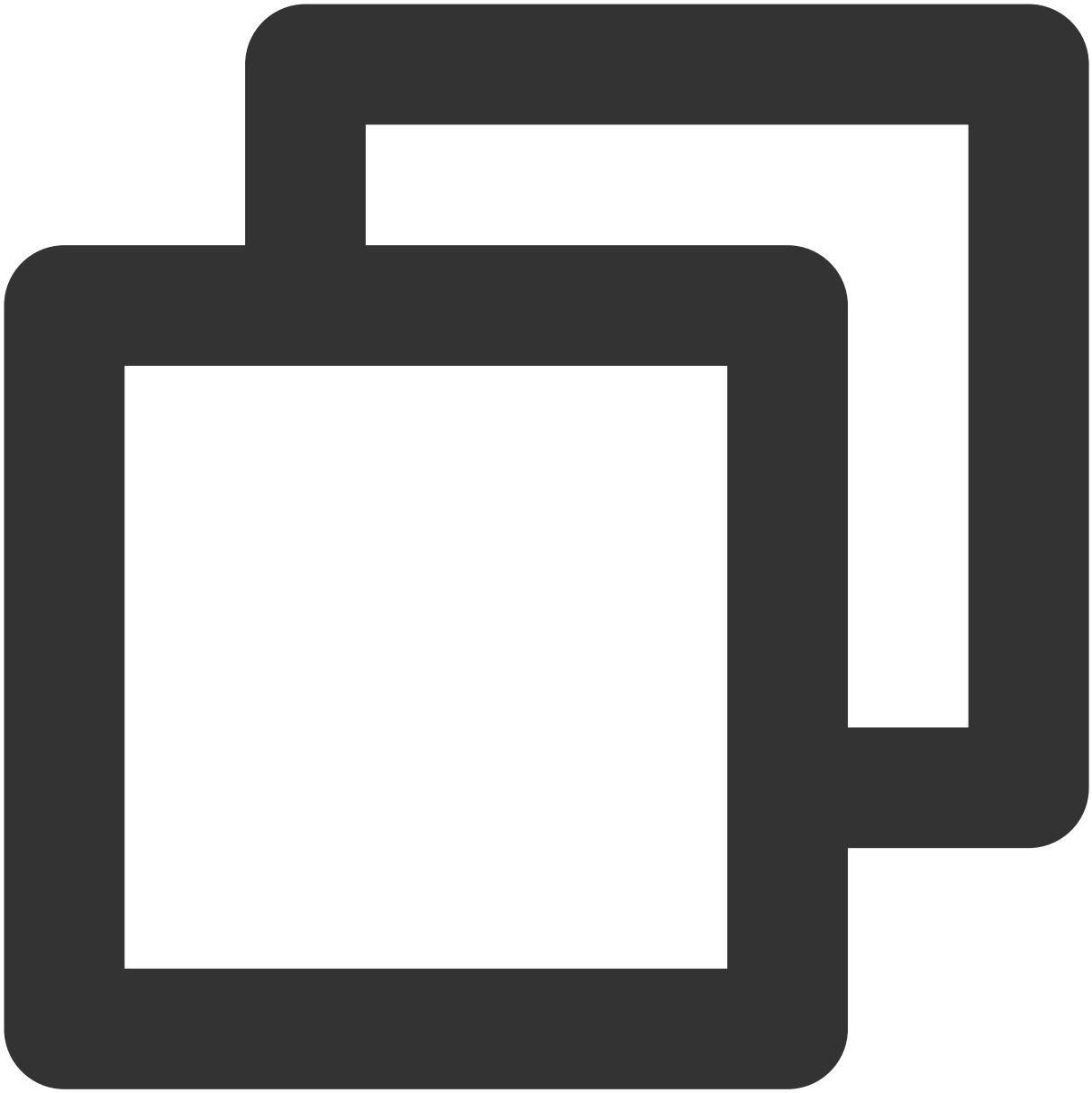

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-01T10:05:48+0800</CreationTime>
        <EndTime>2022-07-01T10:06:02+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j535b10a4f8e211ec9452c1c27f56a659</JobId>
        <Message>Success</Message>
        <Operation>
            <UserData>This is my VideoTag job.</UserData>
            <VideoTag>
                <Scenario>Stream</Scenario>
            </VideoTag>
            <VideoTagResult>
                <StreamData>
                    <Data>
                        <ActionTags>
                            <EndTime>11</EndTime>
                            <StartTime>0</StartTime>
                            <Tags>
                                <Confidence>0.421531</Confidence>
                                <Tag>Speak</Tag>
                                <TagCls>Speak</TagCls>
                            </Tags>
                        </ActionTags>
                        <ActionTags>
                            <EndTime>12.88</EndTime>
                            <StartTime>11.04</StartTime>
                            <Tags/>
                        </ActionTags>
                        <ObjectTags>
                            <Objects>
                                <BBox>
                                    <X1>0.10181817412376404</X1>
                                    <X2>0.8069194555282593</X2>
                                    <Y1>0.6880248785018921</Y1>
                                    <Y2>0.8779844045639038</Y2>
                                </BBox>
                                <Confidence>0.808393</Confidence>
                                <Name>Keyboard</Name>
                            </Objects>
                            <TimeStamp>11</TimeStamp>
                        </ObjectTags>
                        <PersonTags/>
                        <PlaceTags>
                            <ClipFrameResult>Office: 0.55</ClipFrameResult>
                            <ClipFrameResult>Office: 0.55</ClipFrameResult>
                            <ClipFrameResult>Office: 0.59</ClipFrameResult>
                            <ClipFrameResult>Office: 0.54</ClipFrameResult>
                            <ClipFrameResult>Office: 0.42</ClipFrameResult>
                            <ClipFrameResult>Office: 0.43</ClipFrameResult>
                            <ClipFrameResult>Office: 0.33</ClipFrameResult>
                            <ClipFrameResult>Office: 0.29</ClipFrameResult>
```

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```
                        <ClipFrameResult>Office: 0.15</ClipFrameResult>
                        <ClipFrameResult>Entertainment venue: 0.42</ClipFrameRe
                        <ClipFrameResult>Office: 0.33</ClipFrameResult>
                        <EndIndex>275</EndIndex>
                        <EndTime>11</EndTime>
                        <StartIndex>0</StartIndex>
                        <StartTime>0</StartTime>
                        <Tags>
                            <Confidence>0.591724</Confidence>
                            <Tag>Office</Tag>
                            <TagCls>Work</TagCls>
                        </Tags>
                        <Tags>
                            <Confidence>0.175342</Confidence>
                            <Tag>Supermarket/Convenience store/Store</Tag>
                            <TagCls>Business</TagCls>
                        </Tags>
                    </PlaceTags>
                    <PlaceTags>
                        <ClipFrameResult>Other: 0.09</ClipFrameResult>
                        <ClipFrameResult>Other: 0.21</ClipFrameResult>
                        <ClipFrameResult>Other: 0.19</ClipFrameResult>
                        <ClipFrameResult>Sky: 0.28</ClipFrameResult>
                        <ClipFrameResult>Sky: 0.25</ClipFrameResult>
                        <ClipFrameResult>Other: 0.30</ClipFrameResult>
                        <ClipFrameResult>Other: 0.28</ClipFrameResult>
                        <ClipFrameResult>Other: 0.49</ClipFrameResult>
                        <ClipFrameResult>Other: 0.56</ClipFrameResult>
                        <ClipFrameResult>Other: 0.58</ClipFrameResult>
                        <EndIndex>322</EndIndex>
                        <EndTime>12.88</EndTime>
                        <StartIndex>276</StartIndex>
                        <StartTime>11.04</StartTime>
                        <Tags>
                            <Confidence>0.581444</Confidence>
                            <Tag>Other</Tag>
                            <TagCls>Other</TagCls>
                        </Tags>
                        <Tags>
                            <Confidence>0.283301</Confidence>
                            <Tag>Sky</Tag>
                            <TagCls>Nature/Outdoor</TagCls>
                        </Tags>
                    </PlaceTags>
                    <Tags>
                        <Confidence>0.355083</Confidence>
                        <Tag>MOBA - Arena of Valor</Tag>
```

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```
                        </Tags>
                        <Tags>
                            <Confidence>0.587103</Confidence>
                            <Tag>Game</Tag>
                        </Tags>
                        <Tags>
                            <Confidence>0.544651</Confidence>
                            <Tag>Office</Tag>
                        </Tags>
                        <Tags>
                            <Confidence>0.182886</Confidence>
                            <Tag>Supermarket/Convenience store/Store</Tag>
                        </Tags>
                    </Data>
                    <SubErrCode>0</SubErrCode>
                    <SubErrMsg>ok</SubErrMsg>
                </StreamData>
            </VideoTagResult>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-07-01T10:05:50+0800</StartTime>
        <State>Success</State>
        <Tag>VideoTag</Tag>
        <VideoTag/>
    </JobsDetail>
</Response>
```

Sample 2: Job callback in JSON format triggered by a job API

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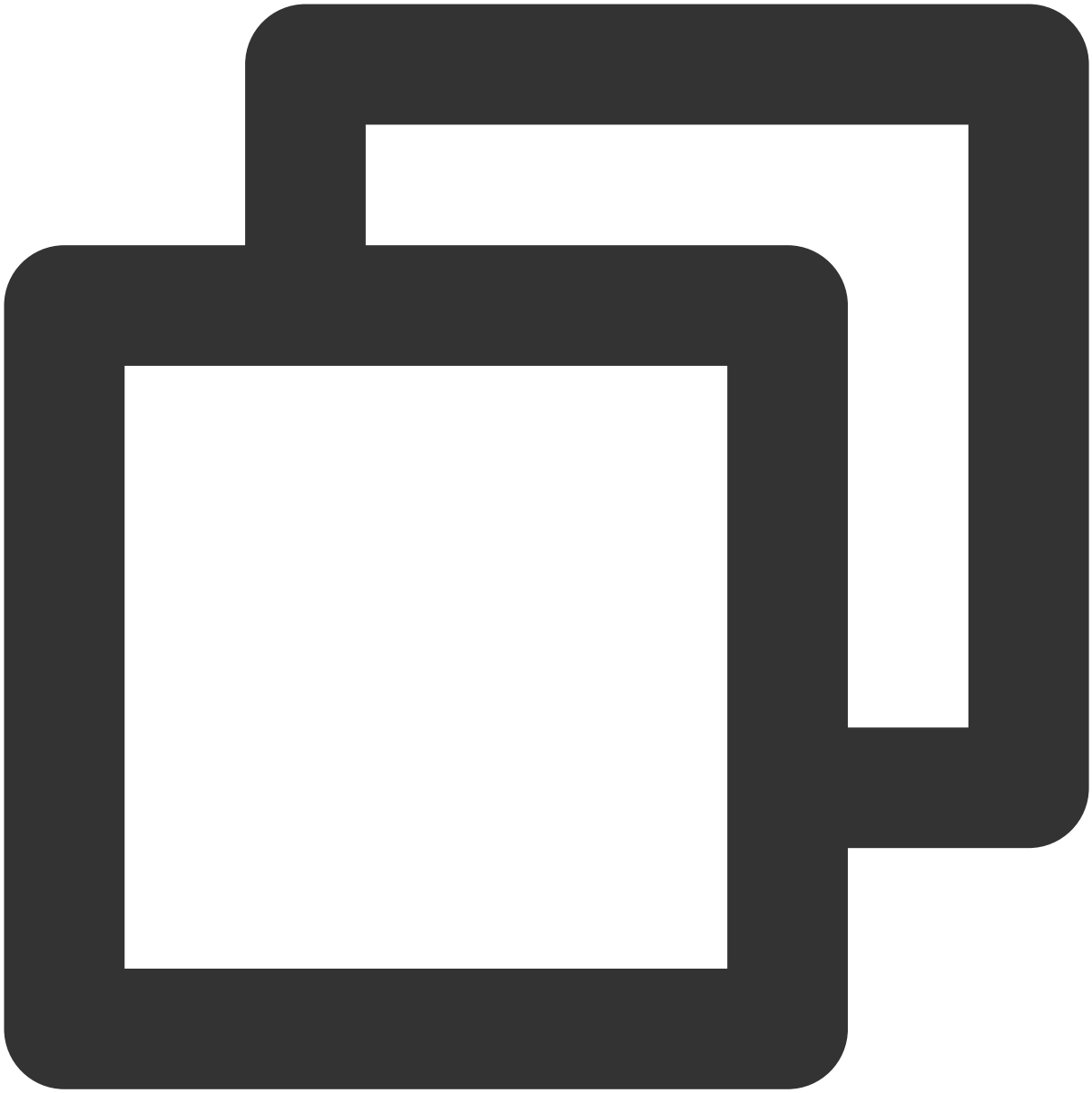

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-07-01T10:05:48+0800",
        "EndTime": "2022-07-01T10:06:02+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp4",
            "Region": "ap-chongqing"
        },
```

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```
        "JobId": "j535b10a4f8e211ec9452c1c27f56a659",
        "Message": "Success",
        "Operation": {
            "UserData": "This is my VideoTag job.",
            "VideoTag": {
                "Scenario": "Stream"
            },
            "VideoTagResult": {
                "StreamData": {
                    "Data": {
                        "ActionTags": [{
                                "EndTime": "11",
                                "StartTime": "0",
                                "Tags": {
                                    "Confidence": "0.421531",
                                    "Tag": "Speak",
                                    "TagCls": "Speak"
                                }
                            },
                            {
                                "EndTime": "12.88",
                                "StartTime": "11.04"
                            }
                        ],
                        "ObjectTags": {
                            "Objects": {
                                "BBox": {
                                    "X1": "0.10181817412376404",
                                    "X2": "0.8069194555282593",
                                    "Y1": "0.6880248785018921",
                                    "Y2": "0.8779844045639038"
                                },
                                "Confidence": "0.808393",
                                "Name": "Keyboard"
                            },
                            "TimeStamp": "11"
                        },
                        "PlaceTags": [{
                                "ClipFrameResult": [
                                    "Office: 0.55",
                                    "Office: 0.55",
                                    "Office: 0.59",
                                    "Office: 0.54",
                                    "Office: 0.42",
                                    "Office: 0.43",
                                    "Office: 0.33",
                                    "Office: 0.29",
```


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```
                "Office: 0.15",
                "Entertainment venue: 0.42",
                "Office: 0.33"
            ],
            "EndIndex": "275",
            "EndTime": "11",
            "StartIndex": "0",
            "StartTime": "0",
            "Tags": [{
                    "Confidence": "0.591724",
                    "Tag": "Office",
                    "TagCls": "Work"
                },
                {
                    "Confidence": "0.175342",
                    "Tag": "Supermarket/Convenience store/Store
                    "TagCls": "Business"
                }
            ]
        },
        {
            "ClipFrameResult": [
                "Other: 0.09",
                "Other: 0.21",
                "Other: 0.19",
                "Sky: 0.28",
                "Sky: 0.25",
                "Other: 0.30",
                "Other: 0.28",
                "Other: 0.49",
                "Other: 0.56",
                "Other: 0.58"
            ],
            "EndIndex": "322",
            "EndTime": "12.88",
            "StartIndex": "276",
            "StartTime": "11.04",
            "Tags": [{
                    "Confidence": "0.581444",
                    "Tag": "Other",
                    "TagCls": "Other"
                },
                {
                    "Confidence": "0.283301",
                    "Tag": "Sky",
                    "TagCls": "Nature/Outdoor"
                }
```


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```
                                ]
                            }
                        ],
                        "Tags": [{
                                "Confidence": "0.355083",
                                "Tag": "MOBA - Arena of Valor"
                            },
                            {
                                "Confidence": "0.587103",
                                "Tag": "Game"
                            },
                            {
                                "Confidence": "0.544651",
                                "Tag": "Office"
                            },
                            {
                                "Confidence": "0.182886",
                                "Tag": "Supermarket/Convenience store/Store"
                            }
                        ]
                    },
                    "SubErrCode": "0",
                    "SubErrMsg": "ok"
                }
            }
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-07-01T10:05:50+0800",
        "State": "Success",
        "Tag": "VideoTag"
    }
}
```


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Voice/Sound Separation

Last updated：2024-06-12 15:36:13

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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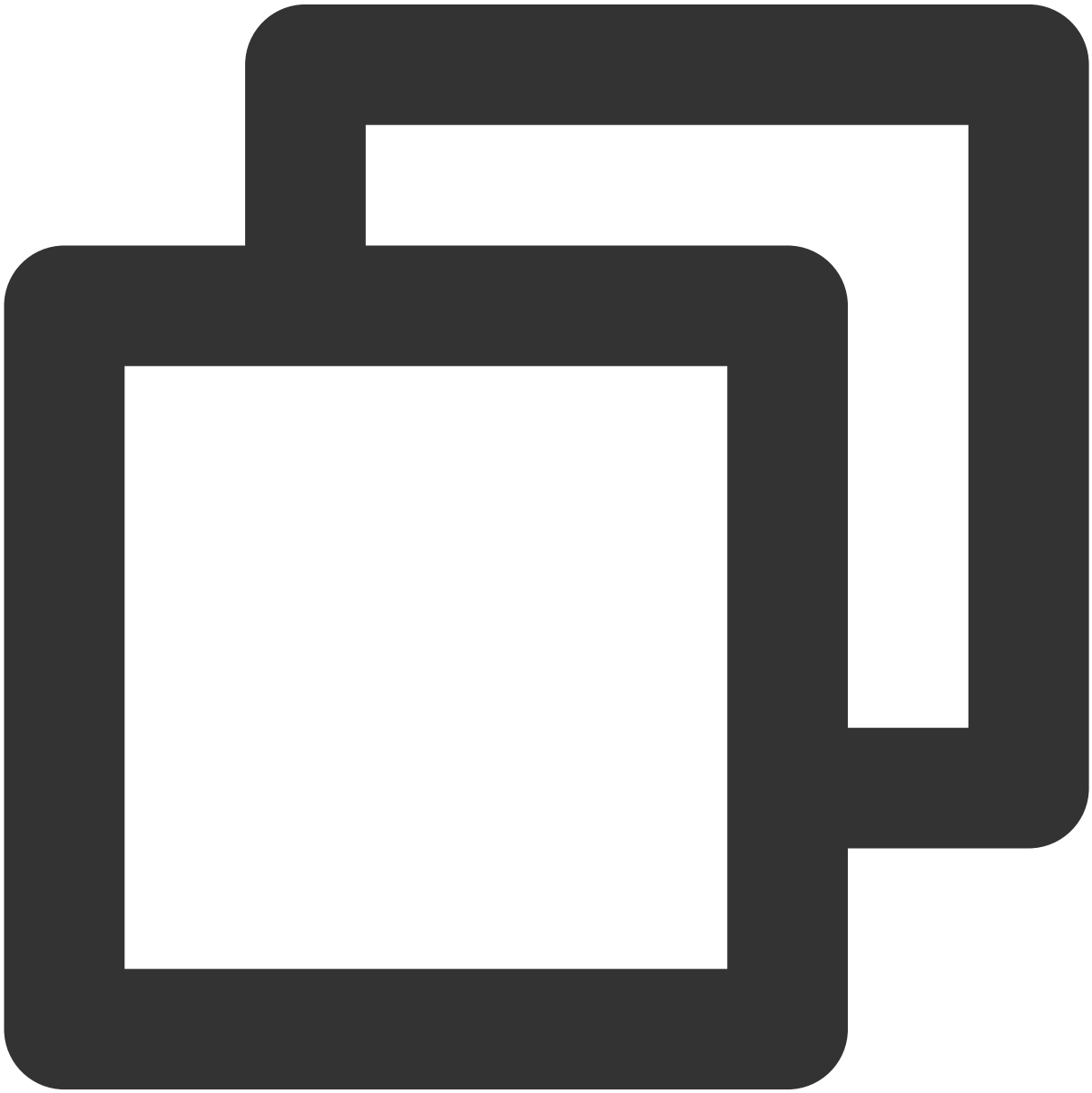

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-01T10:12:26+0800</CreationTime>
        <EndTime>2022-07-01T10:12:32+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp3</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j40644e92f8e311ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>128.147000</Bitrate>
                    <Duration>13.688163</Duration>
                    <FormatLongName>MP2/3 (MPEG audio layer 2/3)</FormatLongName>
                    <FormatName>mp3</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>1</NumStream>
                    <Size>219263</Size>
                    <StartTime>0.025057</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>MP3 (MPEG audio layer 3)</CodecLongName>
                        <CodecName>mp3</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/14112000</CodecTimeBase>
                        <Duration>13.688163</Duration>
                        <Index>0</Index>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.025057</StartTime>
                        <Timebase>1/14112000</Timebase>
                    </Audio>
                    <Audio>
                        <Bitrate>128.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>MP3 (MPEG audio layer 3)</CodecLongName>
                        <CodecName>mp3</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/14112000</CodecTimeBase>
                        <Duration>13.688163</Duration>
                        <Index>0</Index>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.025057</StartTime>
                        <Timebase>1/14112000</Timebase>
                    </Audio>
```

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```
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>3b883c0462ba845acdf3eb7e30db1a1c</Md5>
                        <ObjectName>output/audio.mp3</ObjectName>
                    </Md5Info>
                    <Md5Info>
                        <Md5>62de6bb513d6105eeeb1a6ab0077cb5a</Md5>
                        <ObjectName>output/backgroud.mp3</ObjectName>
                    </Md5Info>
                    <ObjectName>output/audio.mp3</ObjectName>
                    <ObjectName>output/backgroud.mp3</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <AuObject>output/audio.mp3</AuObject>
                <Bucket>test-123456789</Bucket>
                <Object>output/backgroud.mp3</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <UserData>This is my VoiceSeparate job.</UserData>
            <TemplateId>t1f6ac18da8bdc403fa27ac4ffnd7a6sa1</TemplateId>
            <TemplateName>videoseparate_12654</TemplateName>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-07-01T10:12:27+0800</StartTime>
        <State>Success</State>
        <Tag>VoiceSeparate</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type

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EventName	Response	Fixed value: `TaskFinish` .	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the voice/sound separation job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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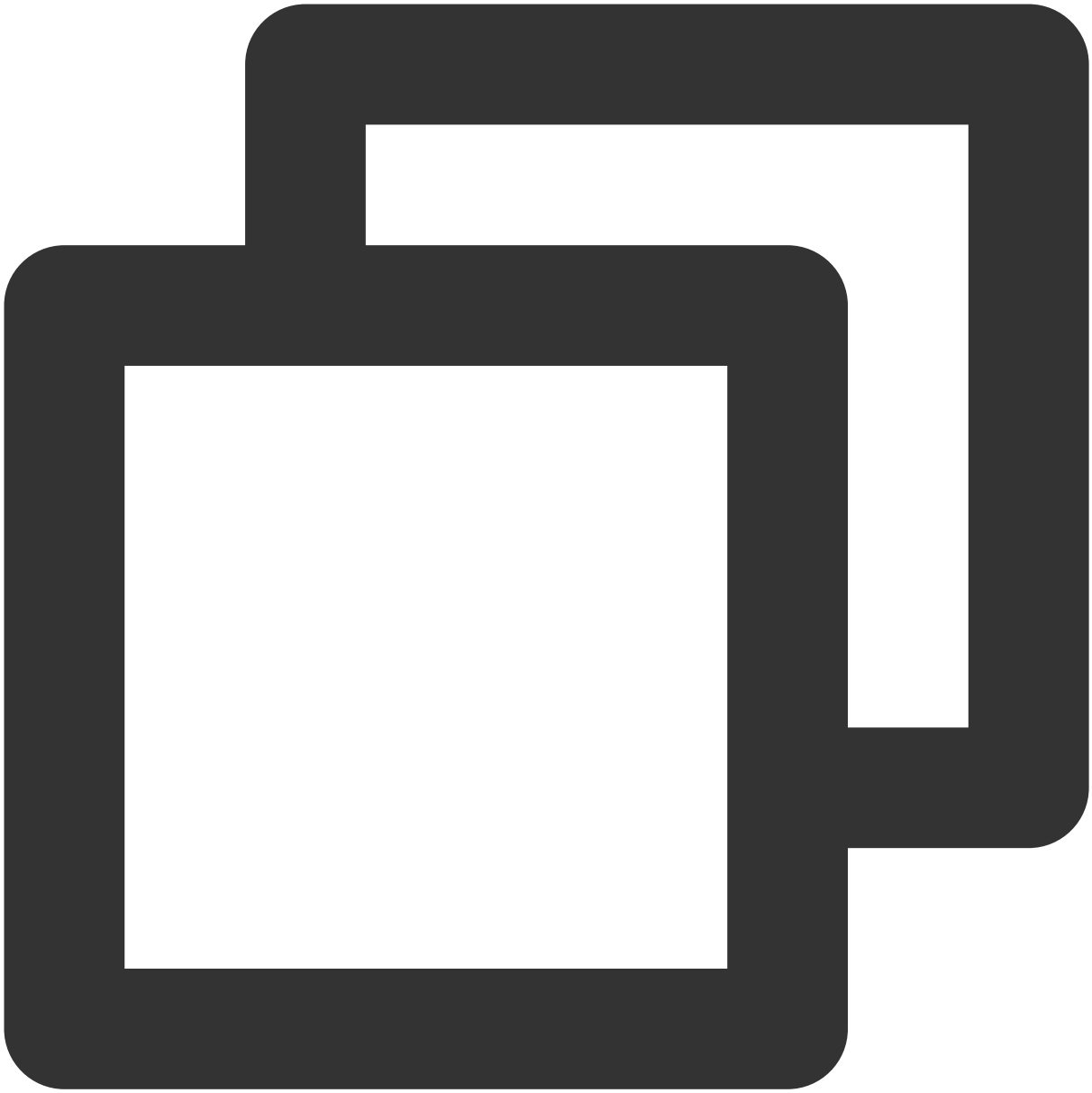

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-01T10:12:26+0800</CreationTime>
        <EndTime>2022-07-01T10:12:32+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp3</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>j40644e92f8e311ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>128.147000</Bitrate>
                    <Duration>13.688163</Duration>
                    <FormatLongName>MP2/3 (MPEG audio layer 2/3)</FormatLongName>
                    <FormatName>mp3</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>1</NumStream>
                    <Size>219263</Size>
                    <StartTime>0.025057</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>MP3 (MPEG audio layer 3)</CodecLongName>
                        <CodecName>mp3</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/14112000</CodecTimeBase>
                        <Duration>13.688163</Duration>
                        <Index>0</Index>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.025057</StartTime>
                        <Timebase>1/14112000</Timebase>
                    </Audio>
                    <Audio>
                        <Bitrate>128.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>MP3 (MPEG audio layer 3)</CodecLongName>
                        <CodecName>mp3</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/14112000</CodecTimeBase>
                        <Duration>13.688163</Duration>
                        <Index>0</Index>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.025057</StartTime>
                        <Timebase>1/14112000</Timebase>
                    </Audio>
```

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```
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>3b883c0462ba845acdf3eb7e30db1a1c</Md5>
                        <ObjectName>output/audio.mp3</ObjectName>
                    </Md5Info>
                    <Md5Info>
                        <Md5>62de6bb513d6105eeeb1a6ab0077cb5a</Md5>
                        <ObjectName>output/backgroud.mp3</ObjectName>
                    </Md5Info>
                    <ObjectName>output/audio.mp3</ObjectName>
                    <ObjectName>output/backgroud.mp3</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <AuObject>output/audio.mp3</AuObject>
                <Bucket>test-123456789</Bucket>
                <Object>output/backgroud.mp3</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <UserData>This is my VoiceSeparate job.</UserData>
            <TemplateId>t1f6ac18da8bdc403fa27ac4ffnd7a6sa1</TemplateId>
            <TemplateName>videoseparate_12654</TemplateName>
        </Operation>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-07-01T10:12:27+0800</StartTime>
        <State>Success</State>
        <Tag>VoiceSeparate</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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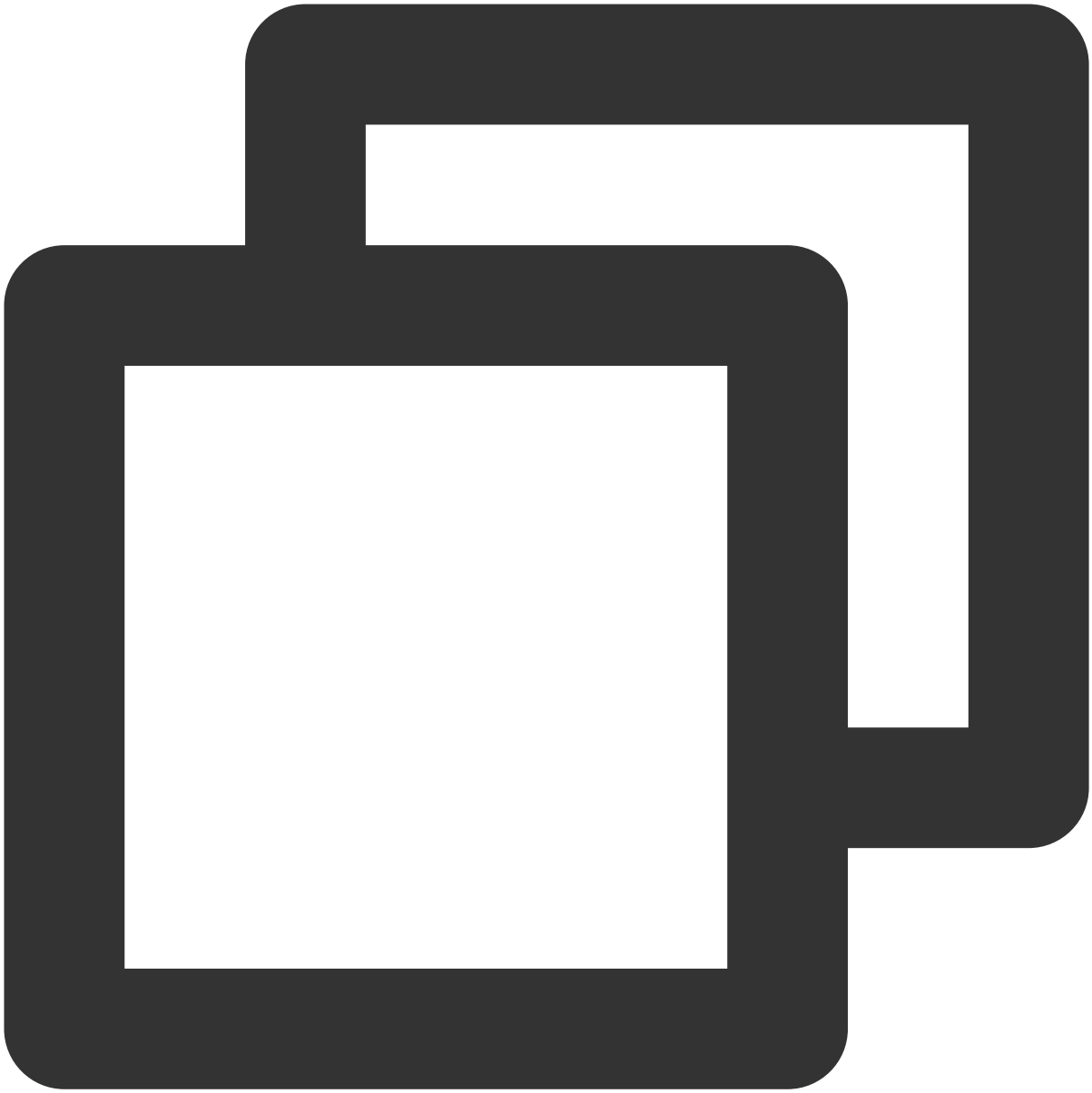

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-01T10:12:26+0800</CreationTime>
        <EndTime>2022-07-01T10:12:32+0800</EndTime>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp3</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
                <Key>Content-Type</Key>
                <Value>video/mp3</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-request-id</Key>
                <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>EventName</Key>
                <Value>cos:ObjectCreated:Put</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>Size</Key>
                <Value>1326515</Value>
            </CosHeaders>
        </Input>
        <JobId>j40644e92f8e311ecb90d0b03267ce0e5</JobId>
        <Message/>
        <Operation>
            <MediaInfo>
                <Format>
                    <Bitrate>128.147000</Bitrate>
                    <Duration>13.688163</Duration>
                    <FormatLongName>MP2/3 (MPEG audio layer 2/3)</FormatLongName>
                    <FormatName>mp3</FormatName>
                    <NumProgram>0</NumProgram>
                    <NumStream>1</NumStream>
                    <Size>219263</Size>
                    <StartTime>0.025057</StartTime>
                </Format>
                <Stream>
                    <Audio>
                        <Bitrate>128.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>MP3 (MPEG audio layer 3)</CodecLongName>
                        <CodecName>mp3</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/14112000</CodecTimeBase>
                        <Duration>13.688163</Duration>
                        <Index>0</Index>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.025057</StartTime>
                        <Timebase>1/14112000</Timebase>
                    </Audio>
```

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```
                    <Audio>
                        <Bitrate>128.000000</Bitrate>
                        <Channel>2</Channel>
                        <ChannelLayout>stereo</ChannelLayout>
                        <CodecLongName>MP3 (MPEG audio layer 3)</CodecLongName>
                        <CodecName>mp3</CodecName>
                        <CodecTag>0x0000</CodecTag>
                        <CodecTagString>[0][0][0][0]</CodecTagString>
                        <CodecTimeBase>1/14112000</CodecTimeBase>
                        <Duration>13.688163</Duration>
                        <Index>0</Index>
                        <SampleFmt>fltp</SampleFmt>
                        <SampleRate>44100</SampleRate>
                        <StartTime>0.025057</StartTime>
                        <Timebase>1/14112000</Timebase>
                    </Audio>
                    <Subtitle/>
                    <Video/>
                </Stream>
            </MediaInfo>
            <MediaResult>
                <OutputFile>
                    <Bucket>test-123456789</Bucket>
                    <Md5Info>
                        <Md5>3b883c0462ba845acdf3eb7e30db1a1c</Md5>
                        <ObjectName>output/audio.mp3</ObjectName>
                    </Md5Info>
                    <Md5Info>
                        <Md5>62de6bb513d6105eeeb1a6ab0077cb5a</Md5>
                        <ObjectName>output/backgroud.mp3</ObjectName>
                    </Md5Info>
                    <ObjectName>output/audio.mp3</ObjectName>
                    <ObjectName>output/backgroud.mp3</ObjectName>
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <AuObject>output/audio.mp3</AuObject>
                <Bucket>test-123456789</Bucket>
                <Object>output/backgroud.mp3</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <UserData>This is my VoiceSeparate job.</UserData>
            <TemplateId>t1f6ac18da8bdc403fa27ac4ffnd7a6sa1</TemplateId>
            <TemplateName>videoseparate_12654</TemplateName>
        </Operation>
```

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```
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <StartTime>2022-07-01T10:12:27+0800</StartTime>
        <State>Success</State>
        <Tag>VoiceSeparate</Tag>
        <Workflow>
            <Name>VoiceSeparate_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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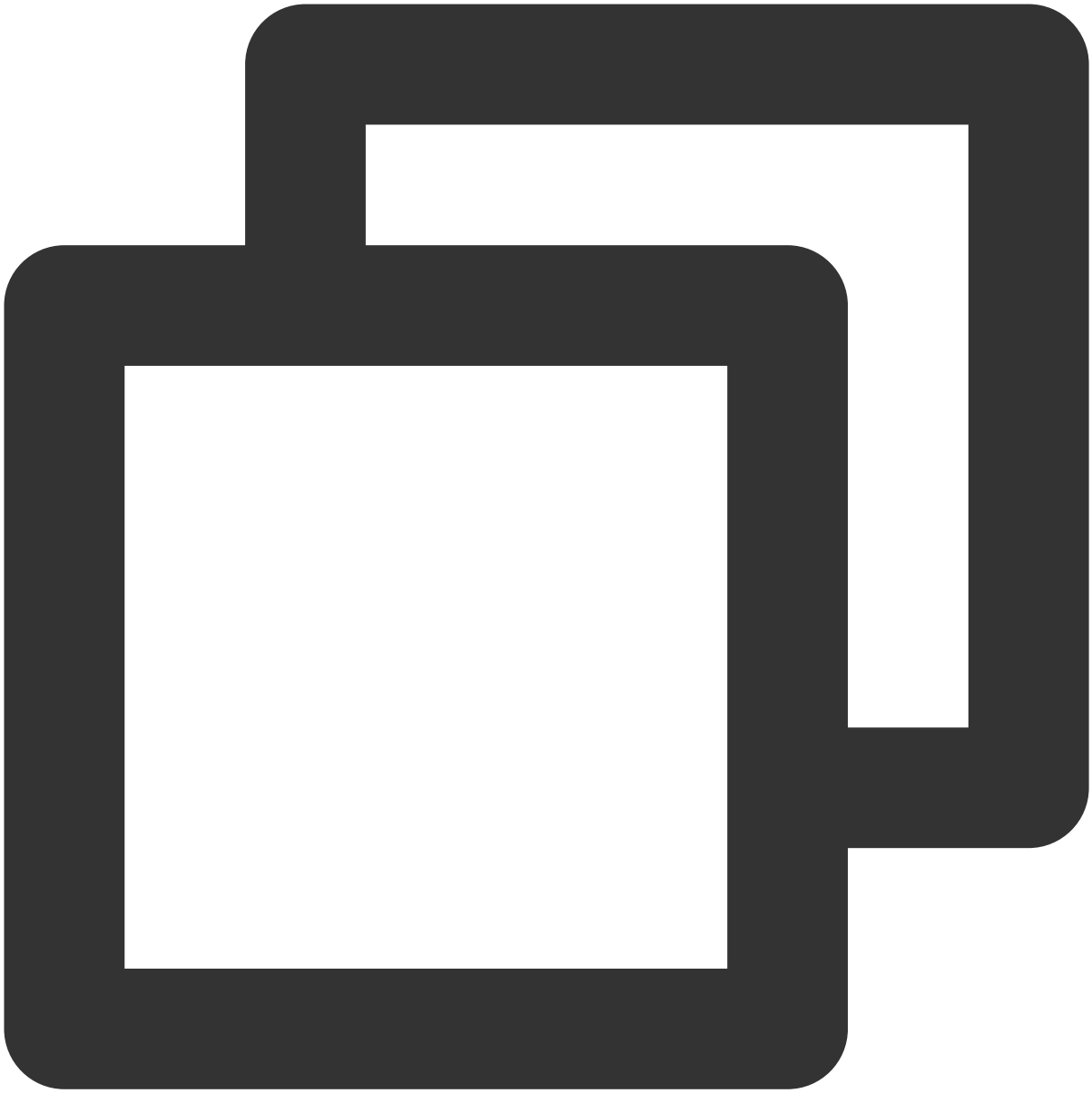


```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-07-01T10:12:26+0800",
        "EndTime": "2022-07-01T10:12:32+0800",
        "Input": {
            "BucketId": "test-123456789",
            "Object": "input/demo.mp3",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```


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```
                    "Key": "Content-Type",
                    "Value": "video/mp3"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1326515"
                }
            ]
        },
        "JobId": "j40644e92f8e311ecb90d0b03267ce0e5",
        "Operation": {
            "MediaInfo": {
                "Format": {
                    "Bitrate": "128.147000",
                    "Duration": "13.688163",
                    "FormatLongName": "MP2/3 (MPEG audio layer 2/3)",
                    "FormatName": "mp3",
                    "NumProgram": "0",
                    "NumStream": "1",
                    "Size": "219263",
                    "StartTime": "0.025057"
                },
                "Stream": {
                    "Audio": [{
                            "Bitrate": "128.000000",
                            "Channel": "2",
                            "ChannelLayout": "stereo",
                            "CodecLongName": "MP3 (MPEG audio layer 3)",
                            "CodecName": "mp3",
                            "CodecTag": "0x0000",
                            "CodecTagString": "[0][0][0][0]",
                            "CodecTimeBase": "1/14112000",
                            "Duration": "13.688163",
                            "Index": "0",
                            "SampleFmt": "fltp",
                            "SampleRate": "44100",
                            "StartTime": "0.025057",
                            "Timebase": "1/14112000"
                        },
```


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```
                {
                    "Bitrate": "128.000000",
                    "Channel": "2",
                    "ChannelLayout": "stereo",
                    "CodecLongName": "MP3 (MPEG audio layer 3)",
                    "CodecName": "mp3",
                    "CodecTag": "0x0000",
                    "CodecTagString": "[0][0][0][0]",
                    "CodecTimeBase": "1/14112000",
                    "Duration": "13.688163",
                    "Index": "0",
                    "SampleFmt": "fltp",
                    "SampleRate": "44100",
                    "StartTime": "0.025057",
                    "Timebase": "1/14112000"
                }
            ]
        }
    },
    "MediaResult": {
        "OutputFile": {
            "Bucket": "test-123456789",
            "Md5Info": [{
                    "Md5": "3b883c0462ba845acdf3eb7e30db1a1c",
                    "ObjectName": "output/audio.mp3"
                },
                {
                    "Md5": "62de6bb513d6105eeeb1a6ab0077cb5a",
                    "ObjectName": "output/backgroud.mp3"
                }
            ],
            "ObjectName": [
                "output/audio.mp3",
                "output/backgroud.mp3"
            ],
            "Region": "ap-chongqing"
        }
    },
    "Output": {
        "AuObject": "output/audio.mp3",
        "Bucket": "test-123456789",
        "Object": "output/backgroud.mp3",
        "Region": "ap-chongqing"
    },
    "UserData": "This is my VoiceSeparate job.",
    "TemplateId": "t1f6ac18da8bdc403fa27ac4ffnd7a6sa1",
    "TemplateName": "videoseparate_12654"
```


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```
        },
        "QueueId": "p2242ab62c7c94486915508540933a2c6",
        "StartTime": "2022-07-01T10:12:27+0800",
        "State": "Success",
        "Tag": "VoiceSeparate",
        "Workflow": {
            "Name": "VoiceSeparate_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```

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Image Processing
Submit Image Processing Job
CreatePicJobs

Last updated：2024-06-12 15:47:04

Feature Description

This API (`CreatePicJobs`) is used to submit an image processing job.

Request

Sample request

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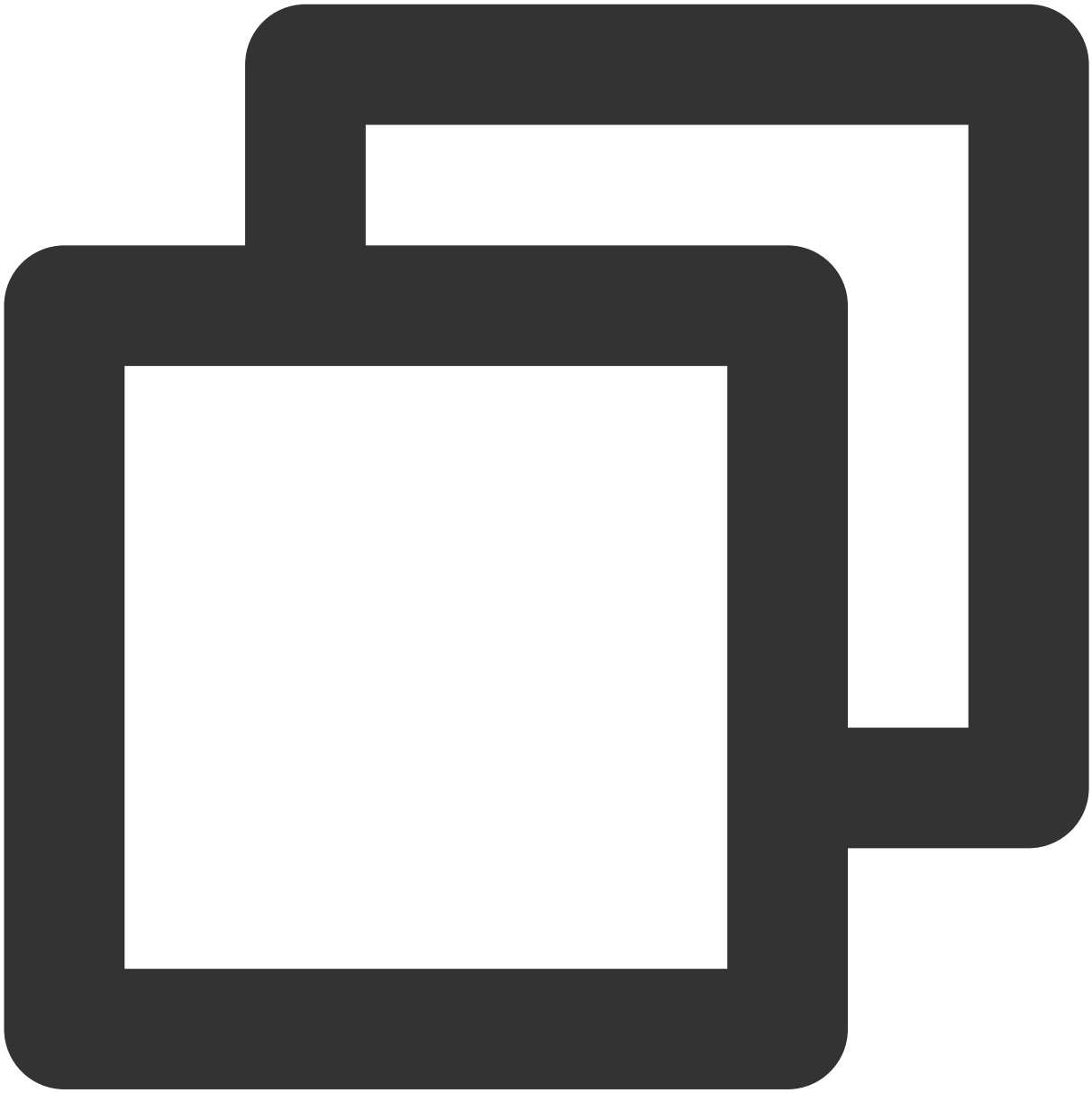

```
POST /pic_jobs HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

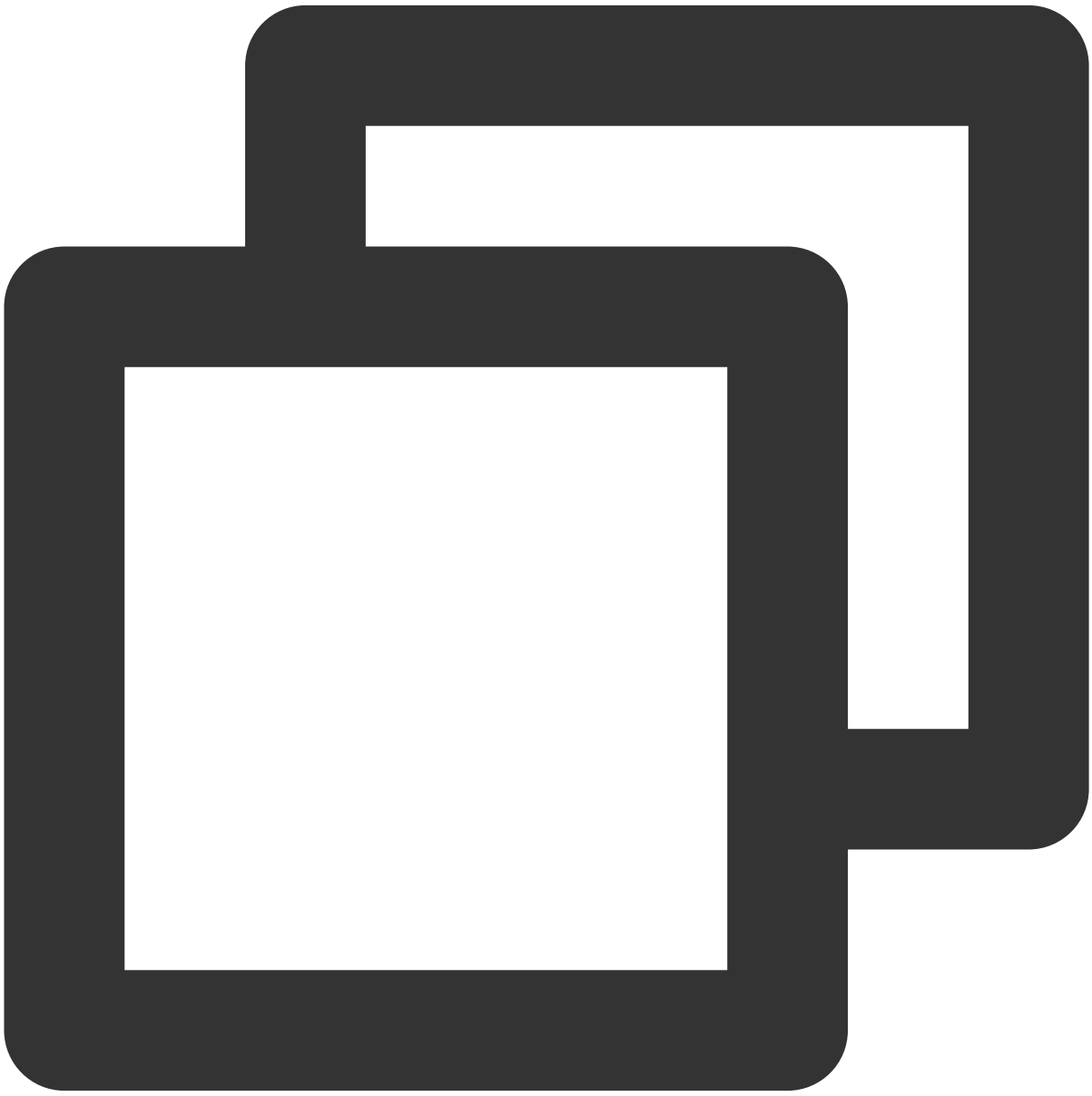
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>PicProcess</Tag>
    <Input>
        <Object>input/deer.jpg</Object>
    <Operation>
        <TemplateId>t10461fe2bd5a649db9022452ec71e0381</TemplateId>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/out.jpg</Object>
        </Output>
        <UserData>This is my data.</UserData>
    </Operation>
    <QueueId>p2911917386e148639319e13c285cc774</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job type: PicProcess	String	Yes
Input	Request	Information of the media file to be processed	Container	Yes
Operation	Request	Operation rule	Container	Yes
QueueId	Request	Queue ID of the job	String	Yes
CallBack	Request	Job callback address, which has a higher priority than that of the queue. If it is set to `no`, no callbacks will be generated at the callback address of the queue.	String	No
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It has a higher priority	String	No

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		than that of the queue.		

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
PicProcess	Request.Operation	Job type parameter. Same as `Request.PicProcess` in the image processing template creation API `CreateMediaTemplate`.	Container	No
TemplateId	Request.Operation	Template ID	String	No
Output	Request.Operation	Result output address	Container	Yes

Note:

`TemplateId` is used first. If `TemplateId` is unavailable, the corresponding job type parameter is used.

`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Region	Request.Operation.Output	Bucket region	String	Yes
Bucket	Request.Operation.Output	Result storage bucket	String	Yes
Object	Request.Operation.Output	Result filename.	String	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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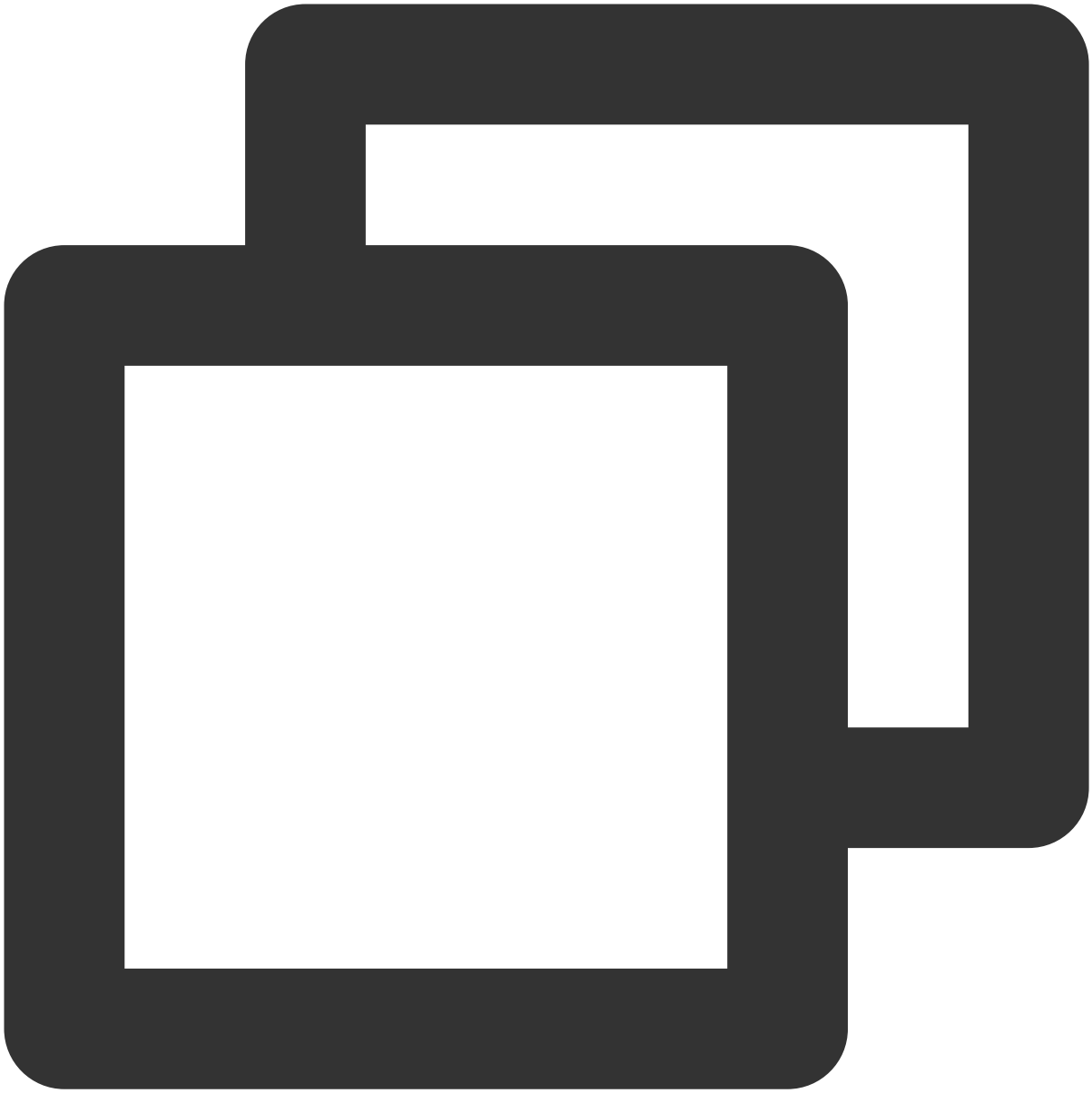

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>c93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>PicProcess</Tag>
```

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```
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/deer.jpg</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Output>
                <Bucket>test-1234567890</Bucket>
                <Object>output/out.jpg</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t10461fe2bd5a649db9022452ec71e0381</TemplateId>
            <TemplateName>test</TemplateName>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is returned only if `State` is `Failed`	String
Message	Response.JobsDetail	Error message, which is returned only if `State` is `Failed`	String
JobId	Response.JobsDetail	Job ID	String
Tag	Response.JobsDetail	Job type: PicProcess	String

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State	Response.JobsDetail	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Response.JobsDetail	Job creation time	String
StartTime	Response.JobsDetail	Job start time	String
EndTime	Response.JobsDetail	Job end time	String
QueueId	Response.JobsDetail	ID of the queue which the job is in	String
Input	Response.JobsDetail	Input resource address of the job	Container
Operation	Response.JobsDetail	Operation rule	Container

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.JobsDetail.Input	Bucket region	String
Bucket	Response.JobsDetail.Input	Result storage bucket	String
Object	Response.JobsDetail.Input	Output result filename	String

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.JobsDetail.Operation	Job template ID	String
TemplateName	Response.JobsDetail.Operation	Job template name, which will be returned if `TemplateId` exists.	String
PicProcess	Response.JobsDetail.Operation	Same as `Request.Operation.PicProcess` in the request.	Container
Output	Response.JobsDetail.Operation	Same as `Request.Operation.Output` in the request.	Container
PicProcessResult	Response.JobsDetail.Operation	Output image information. This node will not be returned when there is no output.	Container
UserData	Response.JobsDetail.Operation	The user information passed through.	String

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`PicProcessResult` has the following sub-nodes:

Same as the `UploadResult` node in the persistent image processing API.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request 1: Using the image processing template ID

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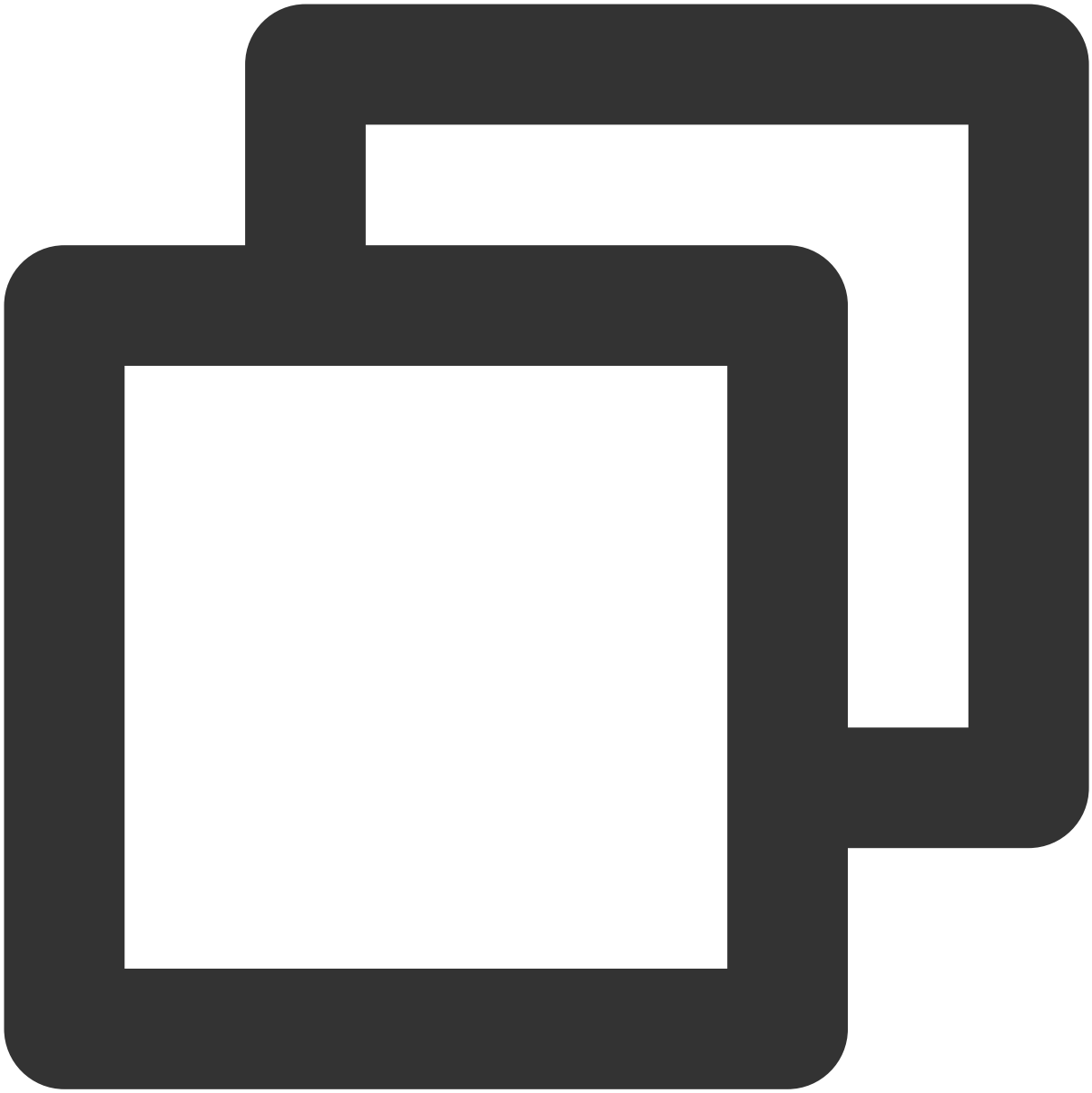

```
POST /pic_jobs HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Tag>PicProcess</Tag>
    <Input>
        <Object>input/deer.jpg</Object>
    <Operation>
```

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```
        <TemplateId>t10461fe2bd5a649db9022452ec71e0381</TemplateId>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/out.jpg</Object>
        </Output>
        <UserData>This is my data.</UserData>
    </Operation>
    <QueueId>p2911917386e148639319e13c285cc774</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

Response

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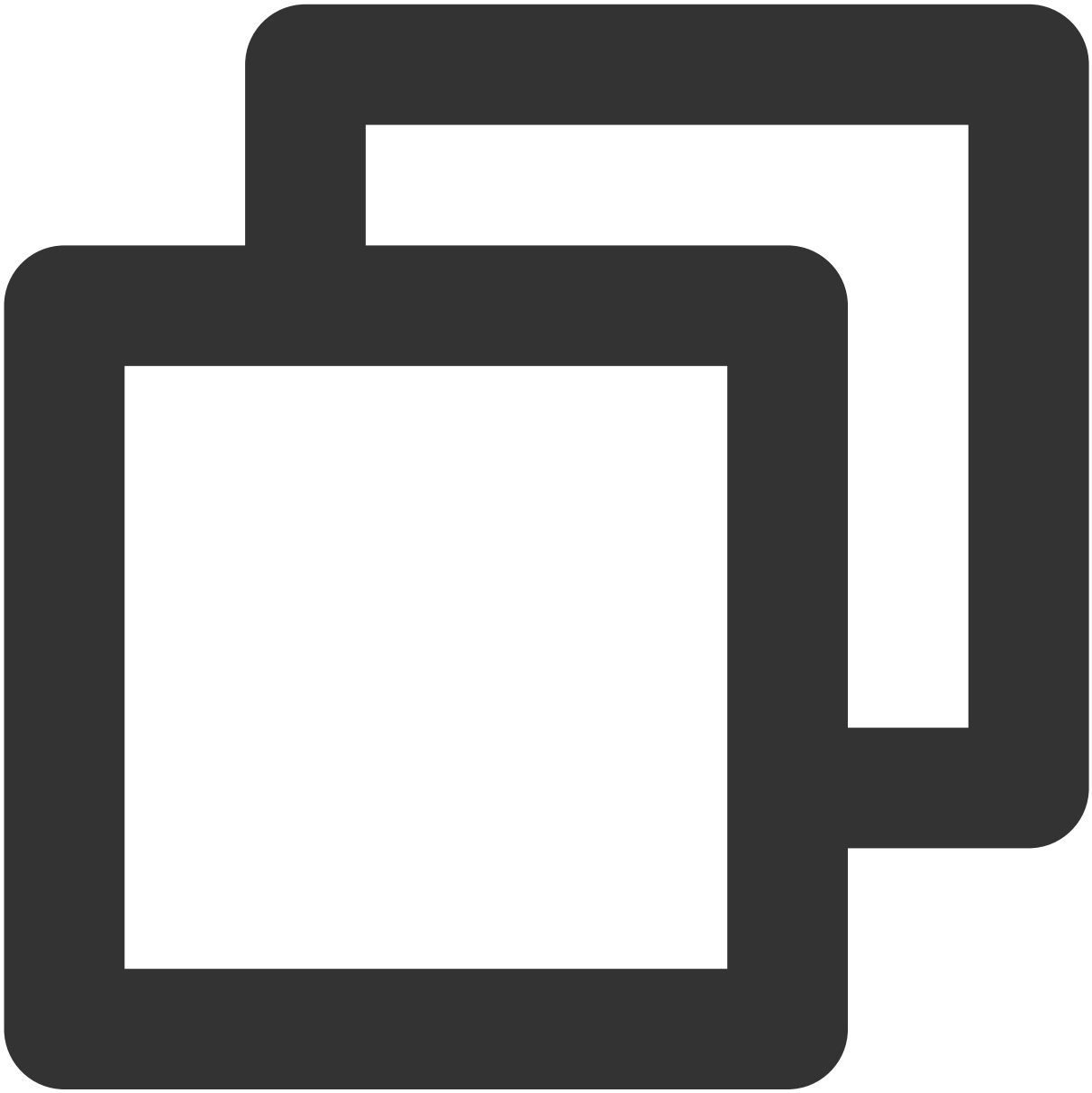

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 18 Jul 2022 19:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>c93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>PicProcess</Tag>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/deer.jpg</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Output>
                <Bucket>test-1234567890</Bucket>
                <Object>output/out.jpg</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t10461fe2bd5a649db9022452ec71e0381</TemplateId>
            <TemplateName>test</TemplateName>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

Request 2: Using the image processing parameter

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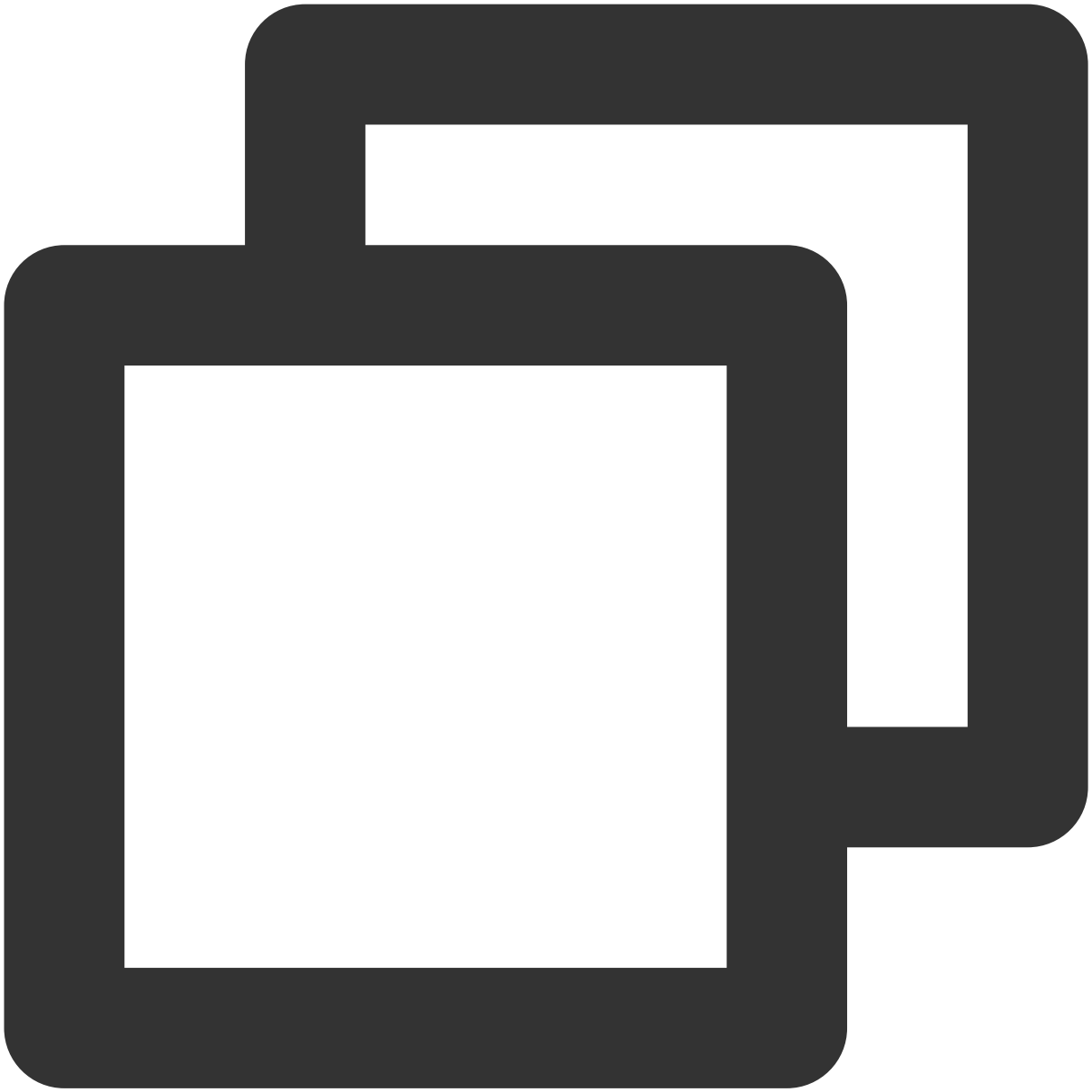

```
POST /pic_jobs HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Tag>PicProcess</Tag>
    <Input>
        <Object>input/deer.jpg</Object>
    <Operation>
```

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```
          <PicProcess>
             <IsPicInfo>true</IsPicInfo>
             <ProcessRule>imageMogr2/rotate/90</ProcessRule>
          </PicProcess>
          <Output>
             <Region>ap-chongqing</Region>
             <Bucket>test-123456789</Bucket>
             <Object>output/out.jpg</Object>
          </Output>
          <UserData>This is my data.</UserData>
      </Operation>
      <QueueId>p2911917386e148639319e13c285cc774</QueueId>
      <CallBack>http://callback.demo.com</CallBack>
      <CallBackFormat>JSON<CallBackFormat>
  </Request>
```

Response

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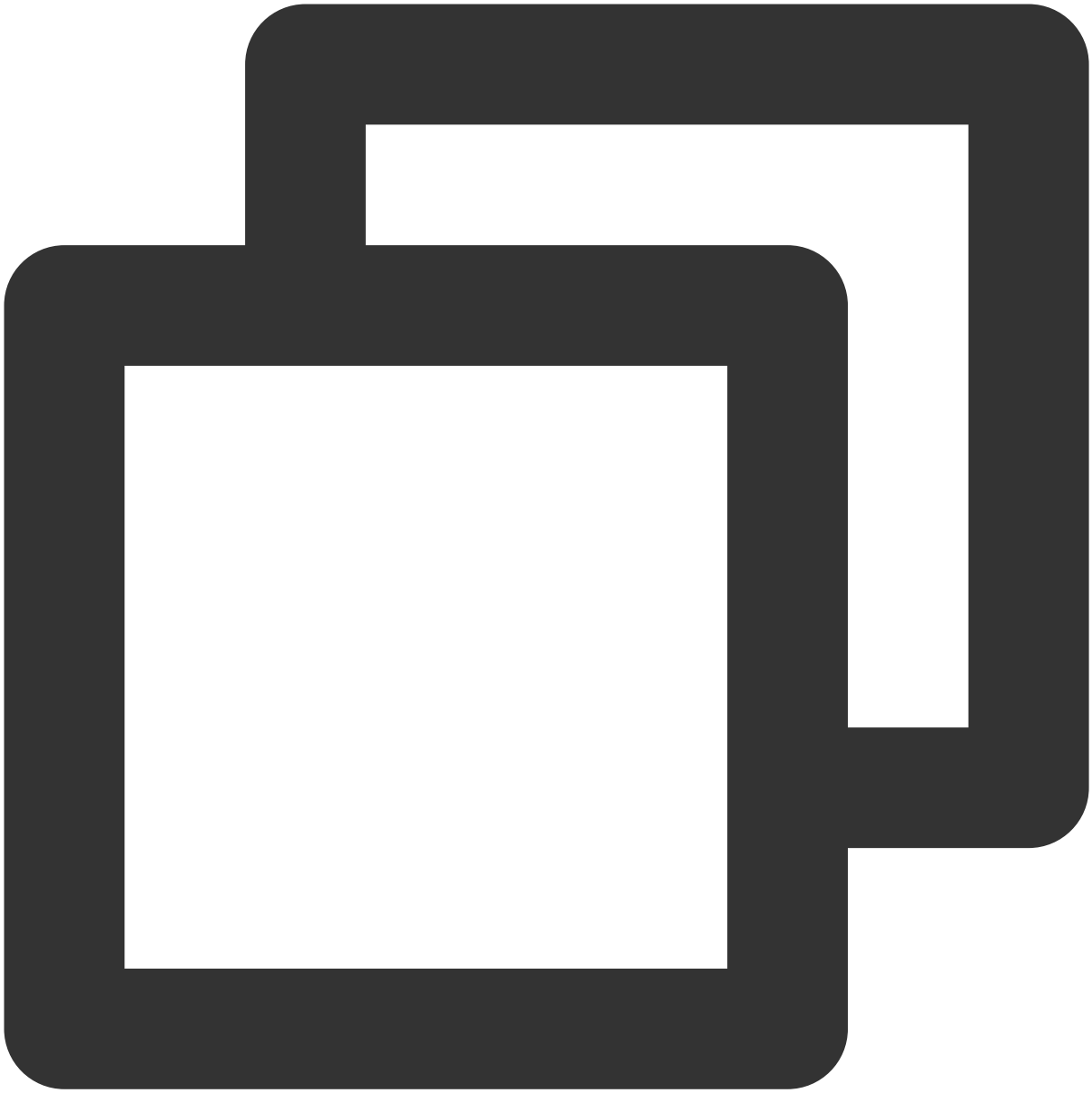

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 18 Jul 2022 19:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>c93984788066911ed89ed352d4d9d2084</JobId>
        <State>Submitted</State>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>-</EndTime>
        <StartTime>-</StartTime>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <Tag>PicProcess</Tag>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/deer.jpg</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Output>
                <Bucket>test-1234567890</Bucket>
                <Object>output/out.jpg</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <PicProcess>
                <IsPicInfo>true</IsPicInfo>
                <ProcessRule>imageMogr2/rotate/90</ProcessRule>
            </PicProcess>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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Canceling Image Processing Job CancelPicJob

Last updated：2024-06-12 15:47:04

Feature Description

This API (`CancelPicJob`) is used to cancel a job.

Request

Sample request

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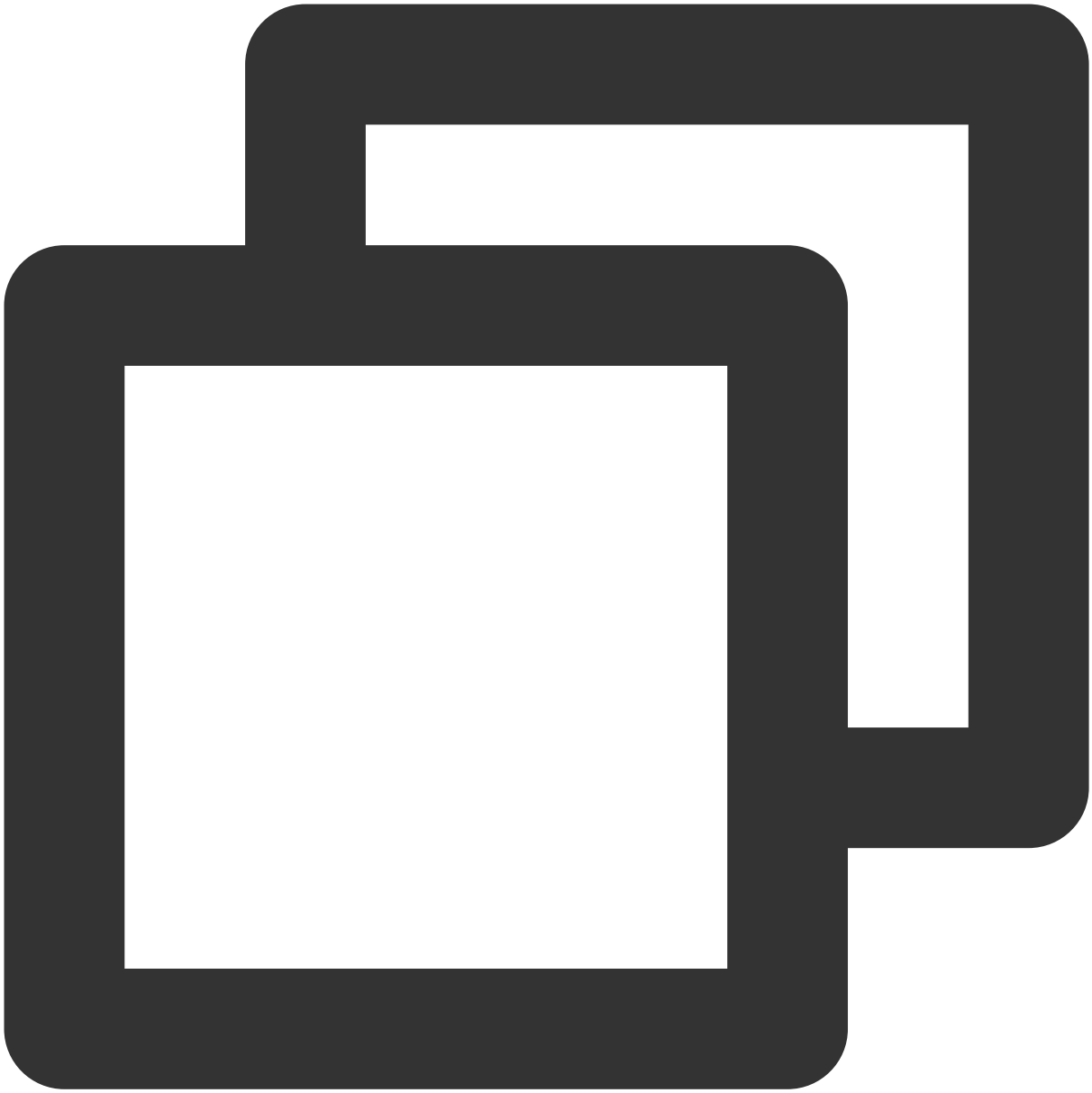

```
PUT /jobs/<jobId>?cancel HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

This request has no response body.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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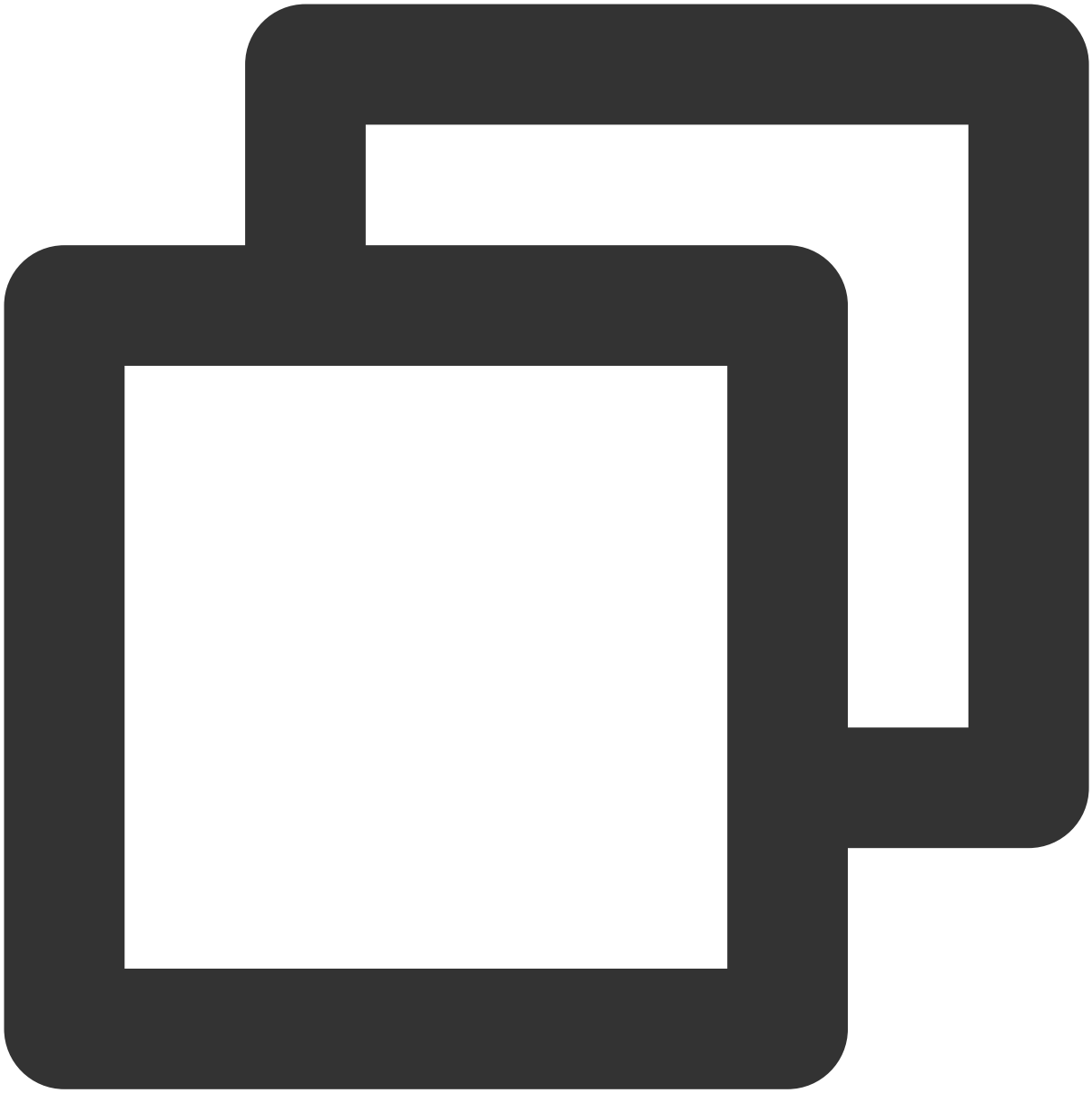

```
PUT /jobs/j-xxx-xxx-xxx-xxxx?cancel HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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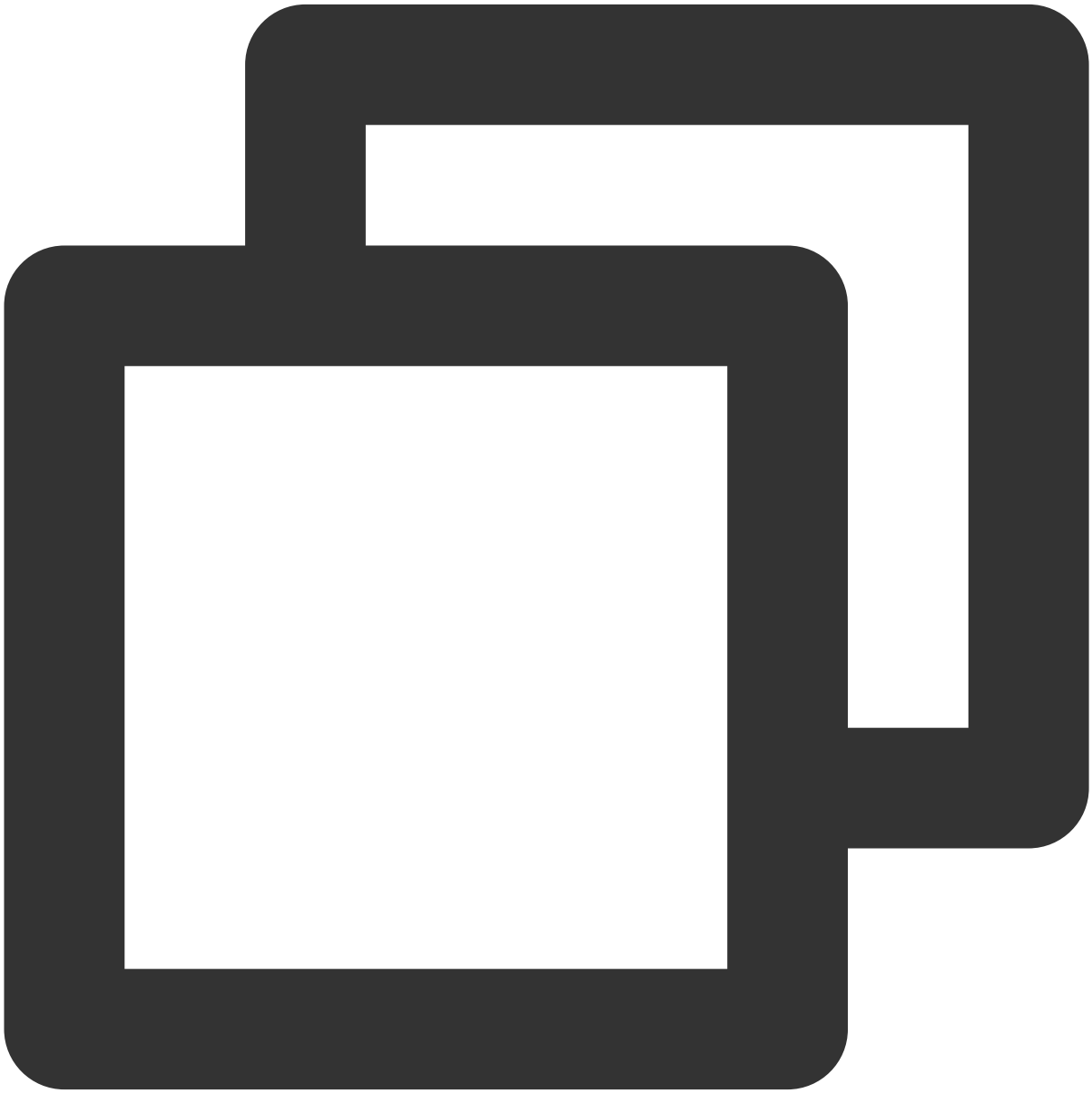

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=
```

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Querying Image Processing Job DescribePicJob

Last updated：2024-06-12 15:47:04

Feature Description

This API (`DescribePicJob`) is used to query a specified job.

Request

Sample request

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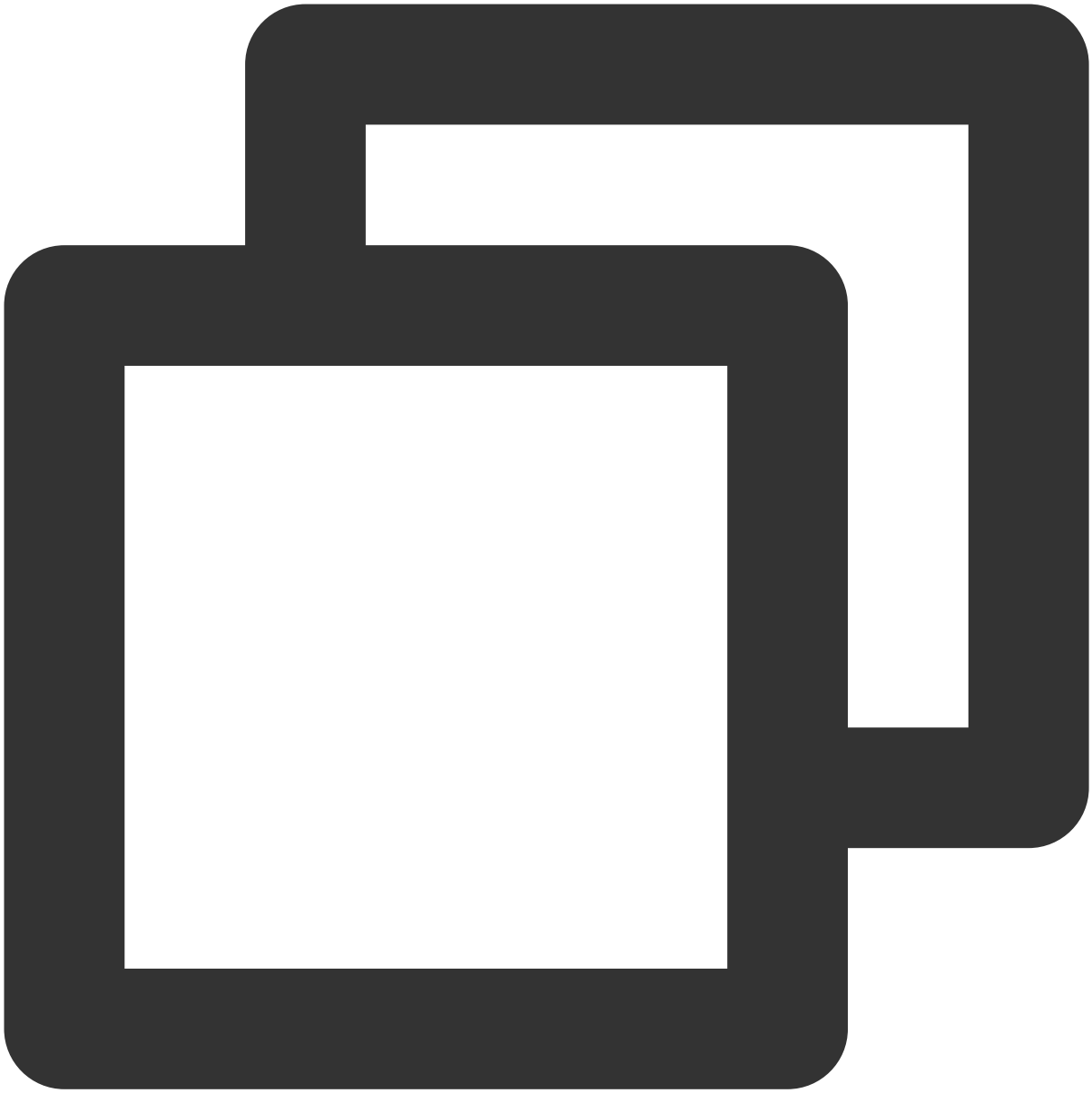

```
GET /pic_jobs/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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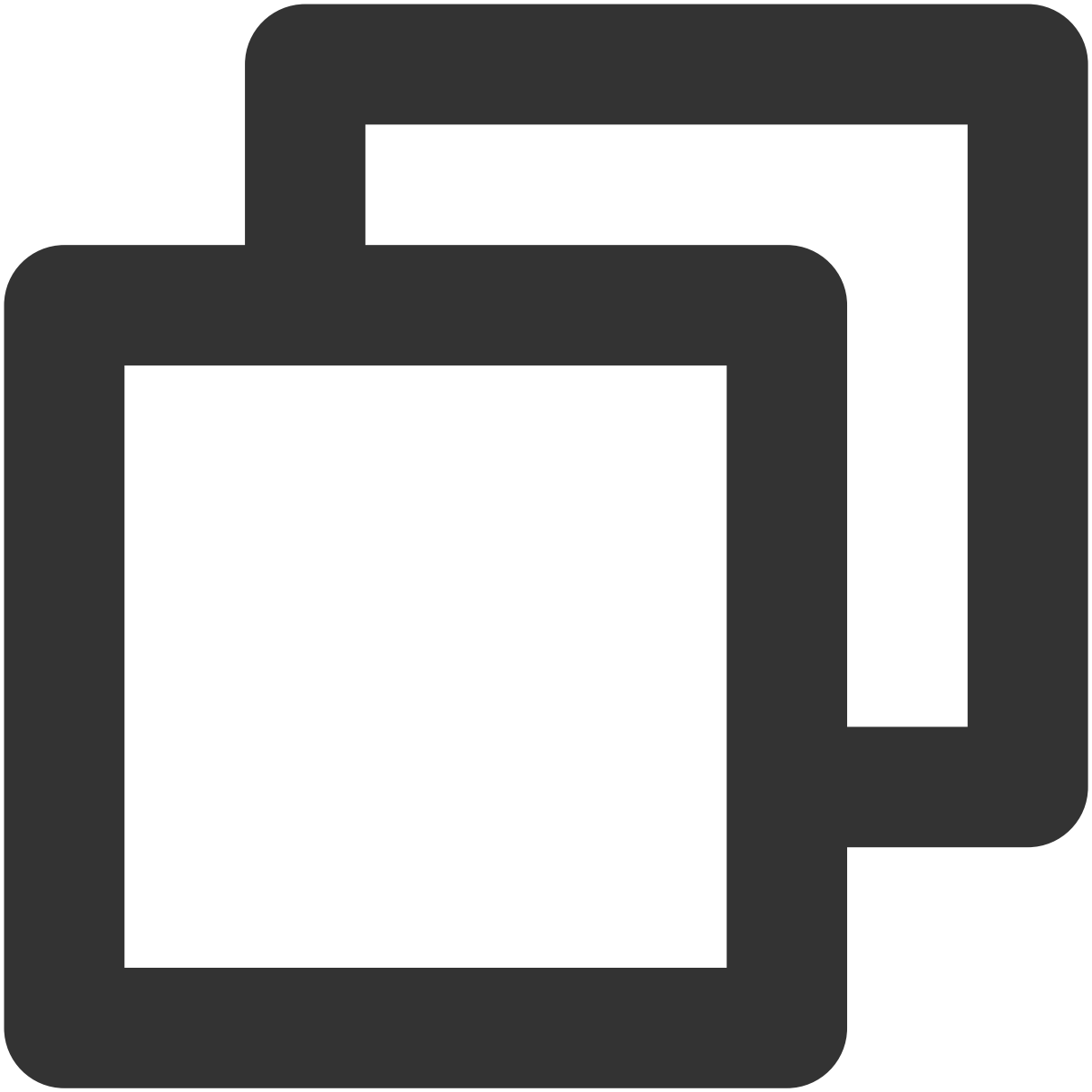

```
<Response>
  <JobsDetail>
  </JobsDetail>
  <NonExistJobIds></NonExistJobIds>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details. Same as `Response.JobsDetail` in `CreateMediaJobs`.	Container
NonExistJobIds	Response	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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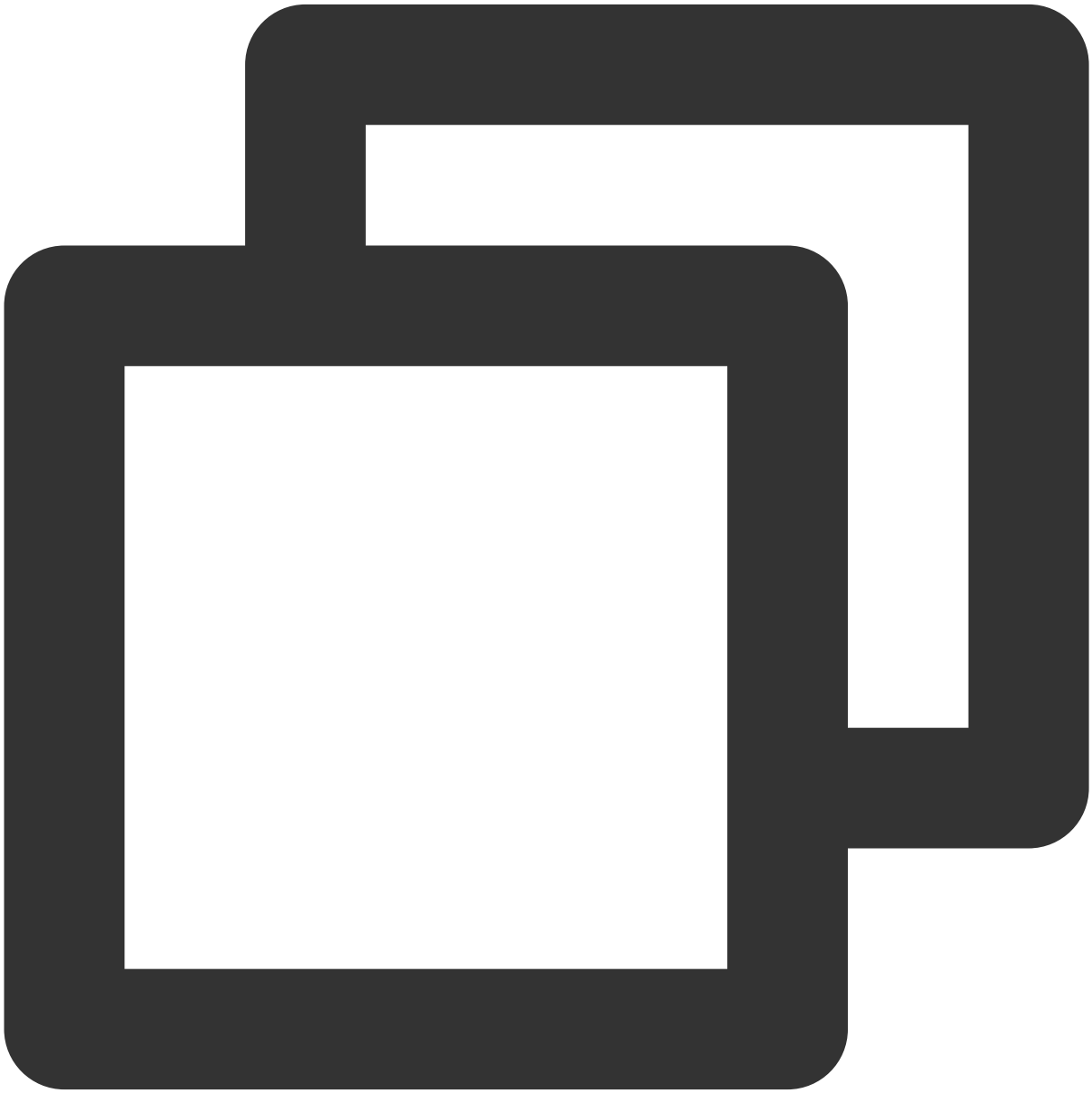

```
GET /pic_jobs/jabcsdssfeipplsdfwe HTTP/1.1
Accept: */*
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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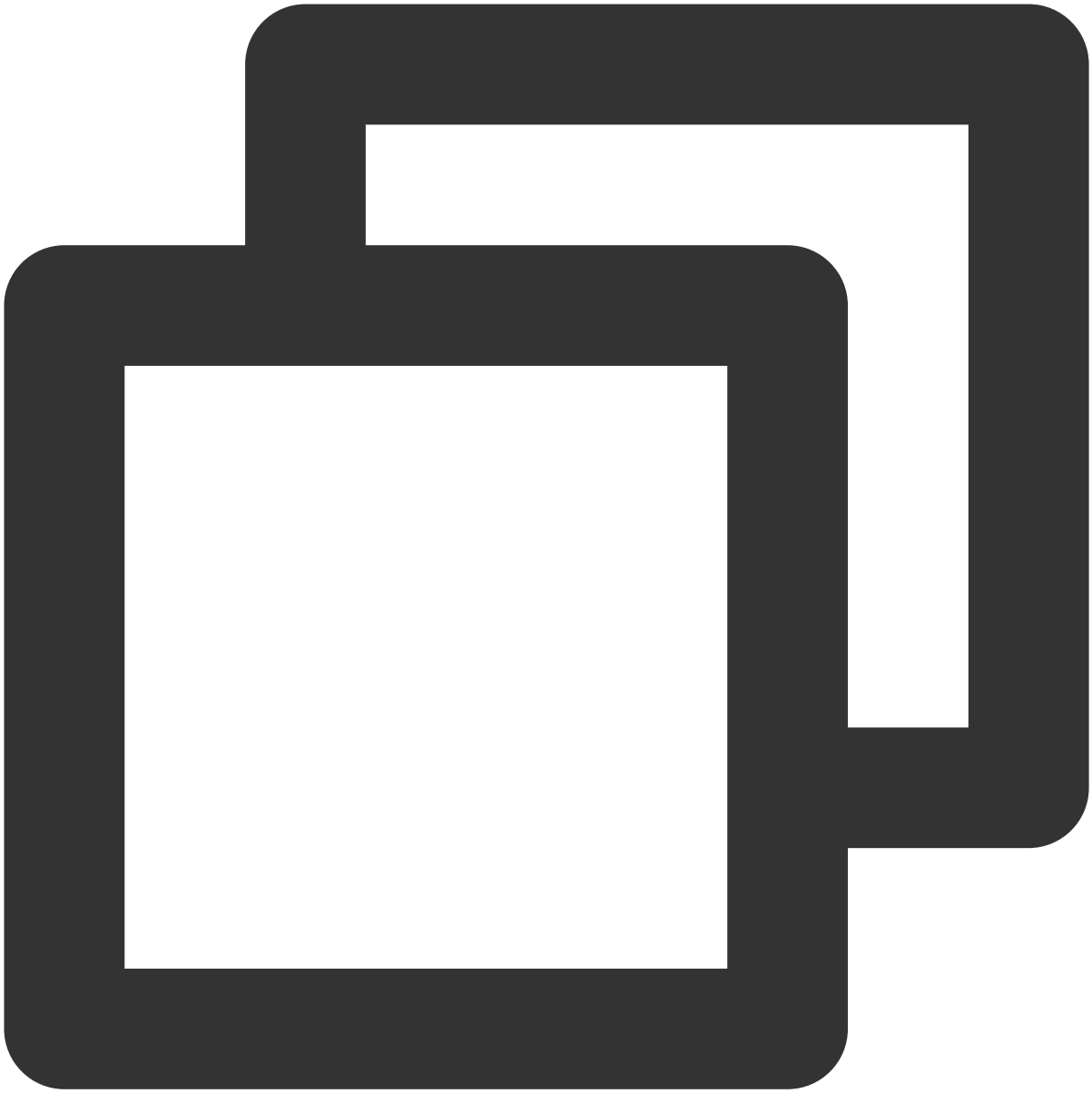

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
  <JobsDetail>
    <Code>Success</Code>
```

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```
    <Message>Success</Message>
    <JobId>je8f65004eb8511eaaed4f377124a303c</JobId>
    <State>Submitted</State>
    <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    <EndTime>2019-07-07T12:12:12+0800</EndTime>
    <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
    <Tag>PicProcess</Tag>
    <Input>
      <Object>test.jpg</Object>
    </Input>
    <Operation>
      <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
      <Output>
        <Region>ap-beijing</Region>
        <Bucket>abc-1250000000</Bucket>
        <Object>picprocess.jpg</Object>
        <SpriteObject></SpriteObject>
      </Output>
    </Operation>
  </JobsDetail>
</Response>
```

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DescribePicJobs

Last updated：2024-06-12 15:47:04

Feature Description

The API (`DescribePicJobs`) is used to pull jobs that meet specified conditions.

Request

Sample request

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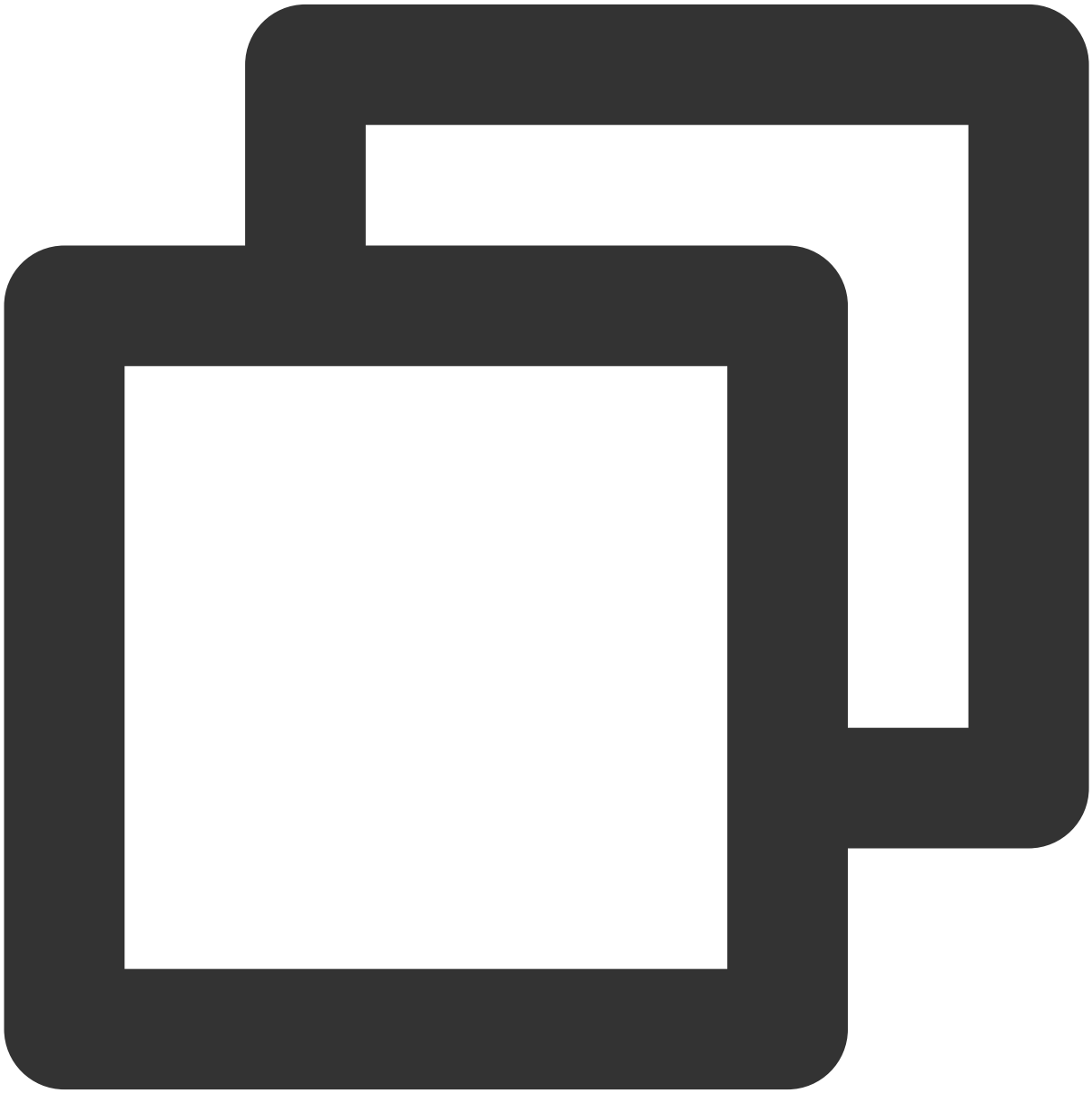

```
GET /pic_jobs?size=&states=&queueId=&startCreationTime=&endCreationTime= HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Request parameters

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
queueId	None	ID of the queue from which jobs are pulled	String	Yes
tag	None	Job type: PicProcess	String	Yes
orderByTime	None	Valid values: `Desc`, `Asc`. Default value: `Desc`.	String	No
nextToken	None	Context token for pagination	String	No
size	None	Maximum number of jobs that can be pulled. The default value is 10. The maximum value is 100.	Integer	No
States	None	Status of the jobs to pull. If you enter multiple job statuses, separate them by comma. Valid values: `All`, `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`. Default value: `All`.	String	No
startCreationTime	None	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String	No
endCreationTime	None	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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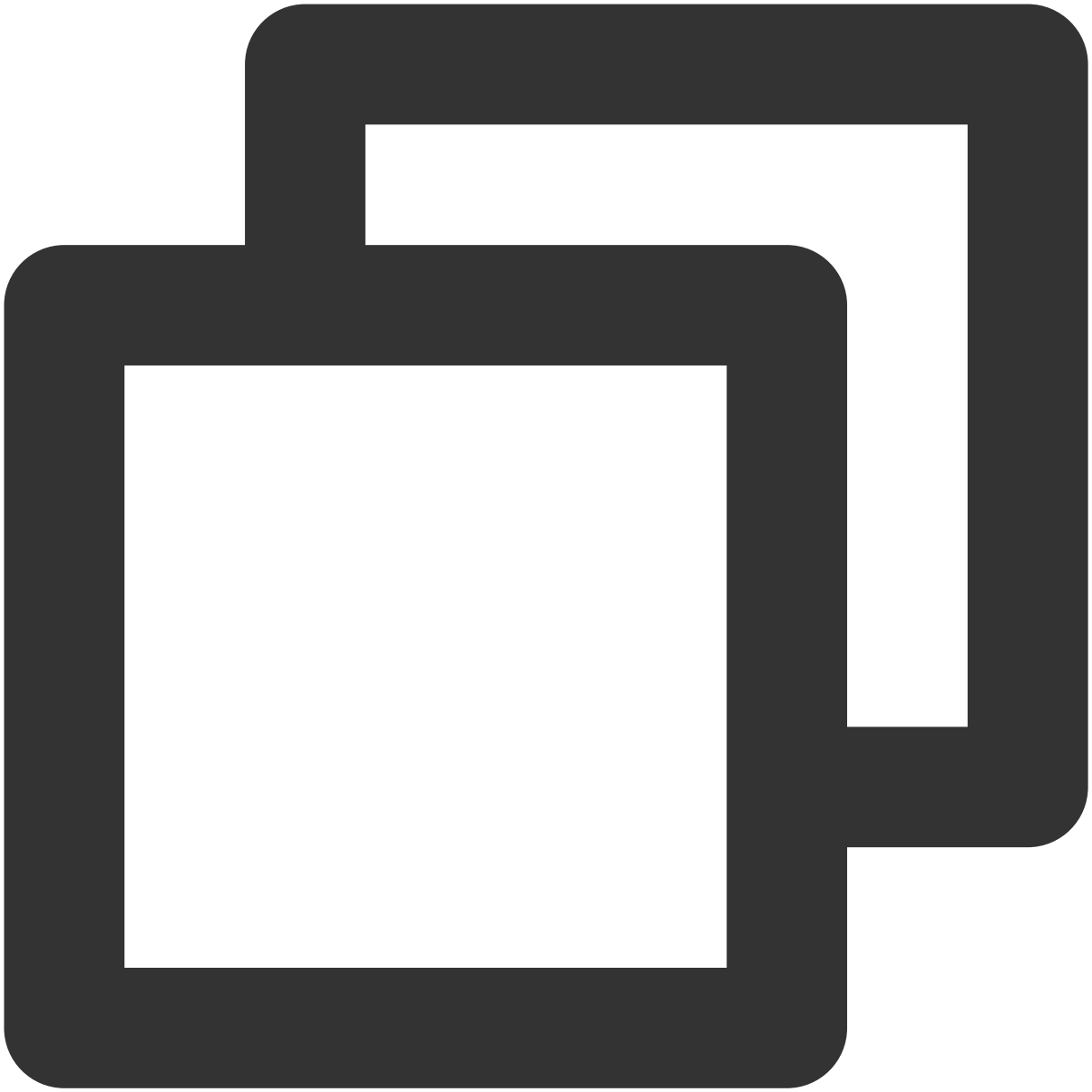

```
<Response>
  <JobsDetail>
  </JobsDetail>
  <NextToken></NextToken>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details. Same as `Response.JobsDetail` in `CreateMediaJobs`.	Container
NextToken	Response	Context token for pagination	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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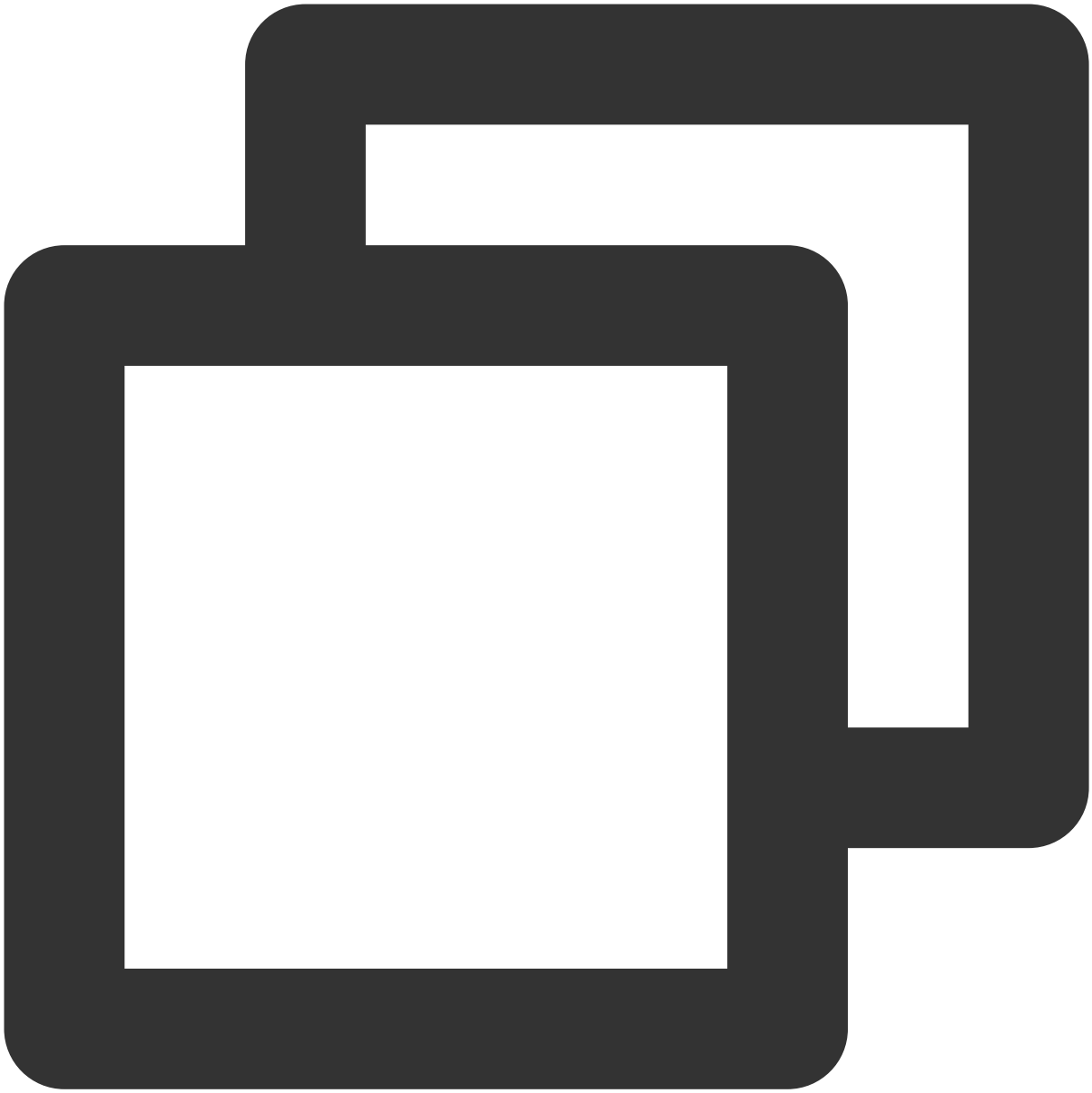

```
GET /pic_jobs?queueId=aaaaaaaaaaa&tag=PicProcess HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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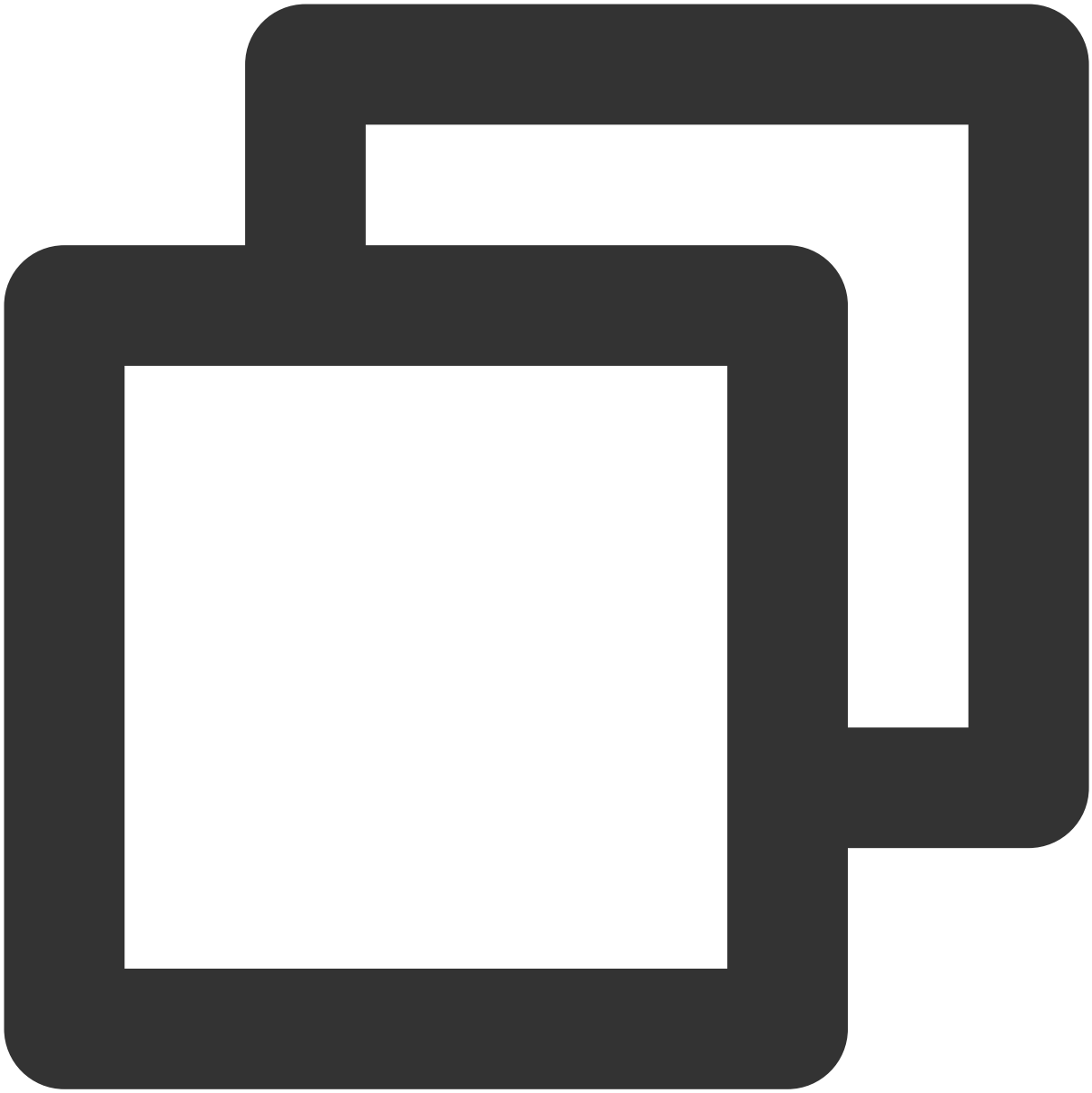

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
  <JobsDetail>
    <Code>Success</Code>
```

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```
    <Message>Success</Message>
    <JobId>je8f65004eb8511eaaed4f377124a303c</JobId>
    <State>Submitted</State>
    <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    <EndTime>2019-07-07T12:12:12+0800</EndTime>
    <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
    <Tag>PicProcess</Tag>
    <Input>
      <Object>test.jpg</Object>
    </Input>
    <Operation>
      <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
      <Output>
        <Region>ap-beijing</Region>
        <Bucket>abc-1250000000</Bucket>
        <Object>picprocess.jpg</Object>
        <SpriteObject></SpriteObject>
      </Output>
    </Operation>
  </JobsDetail>
  <JobsDetail>
    <Code>Success</Code>
    <Message>Success</Message>
    <JobId>jbbbbccddabcddafesff</JobId>
    <State>Submitted</State>
    <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    <EndTime>2019-07-07T12:12:12+0800</EndTime>
    <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
    <Tag>PicProcess</Tag>
    <Input>
      <Object>test.jpg</Object>
    </Input>
    <Operation>
      <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
      <Output>
        <Region>ap-beijing</Region>
        <Bucket>abc-1250000000</Bucket>
        <Object>picprocess.jpg</Object>
        <SpriteObject></SpriteObject>
      </Output>
    </Operation>
  </JobsDetail>
</Response>
```

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Image Processing Callback

Last updated：2024-06-12 15:47:04

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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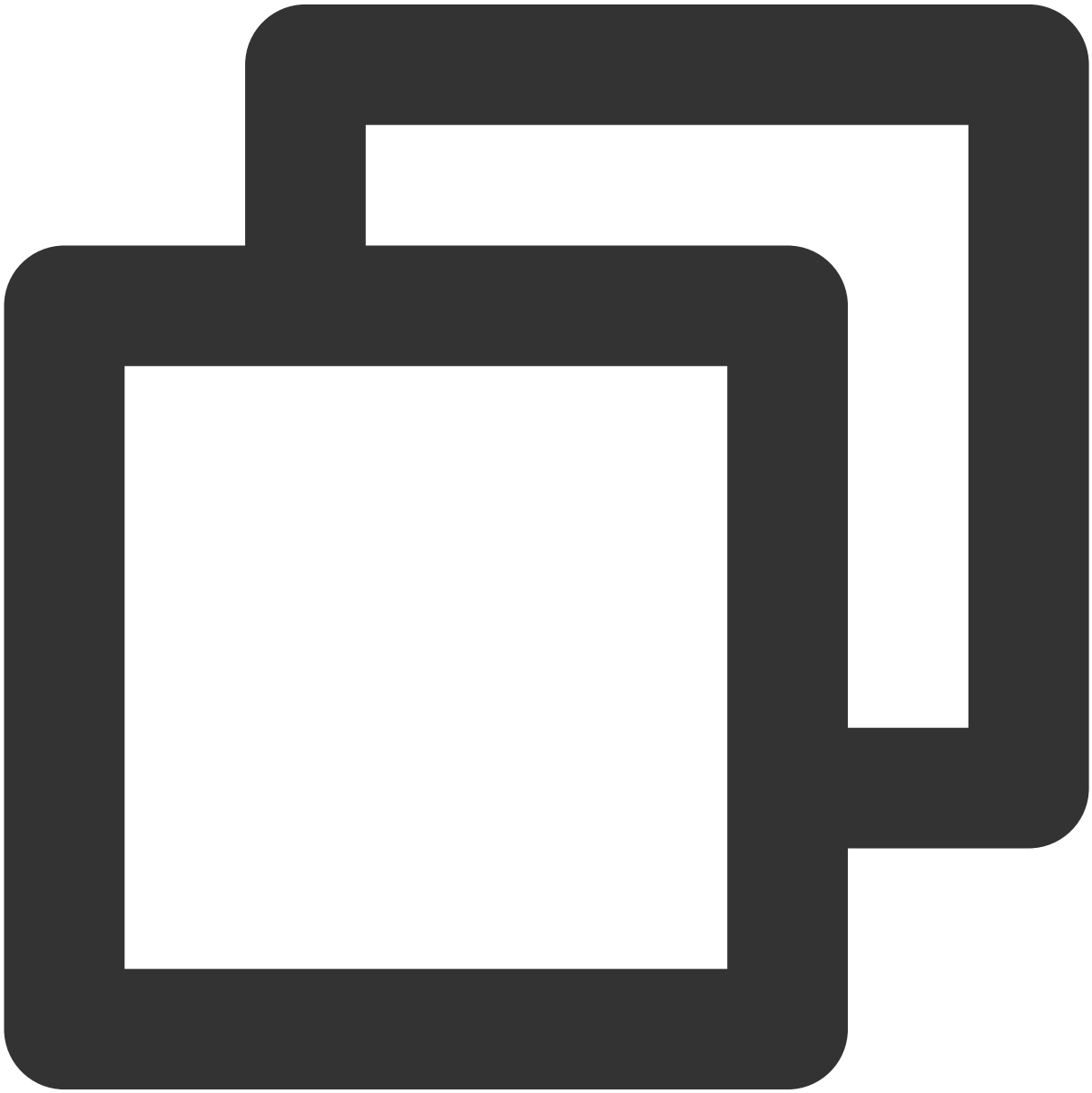

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>2022-07-18T15:16:44+0800</EndTime>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/deer.jpg</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>c93984788066911ed89ed352d4d9d2084</JobId>
        <Message/>
        <Operation>
            <Output>
                <Bucket>test-1234567890</Bucket>
                <Object>output/out.jpg</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <PicProcessResult>
                <ObjectName>output/out.jpg</ObjectName>
                <OriginalInfo>
                    <Etag>"d5a491cd3d8d071e3212c3478e8e35a1"</Etag>
                    <ImageInfo>
                        <Ave>0xc64847</Ave>
                        <Format>JPEG</Format>
                        <Height>417</Height>
                        <Orientation>0</Orientation>
                        <Quality>68</Quality>
                        <Width>500</Width>
                    </ImageInfo>
                </OriginalInfo>
                <ProcessResult>
                    <Etag/>
                    <Format>JPEG</Format>
                    <Height>500</Height>
                    <Quality>68</Quality>
                    <Size>24911</Size>
                    <Width>417</Width>
                </ProcessResult>
            </PicProcessResult>
            <TemplateId>t10461fe2bd5a649db9022452ec71e0381</TemplateId>
            <TemplateName>test</TemplateName>
            <UserData>This is my PicProcess job.</UserData>
        </Operation>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <StartTime>2022-07-18T15:16:44+0800</StartTime>
        <State>Success</State>
        <Tag>PicProcess</Tag>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the image processing job submitting API

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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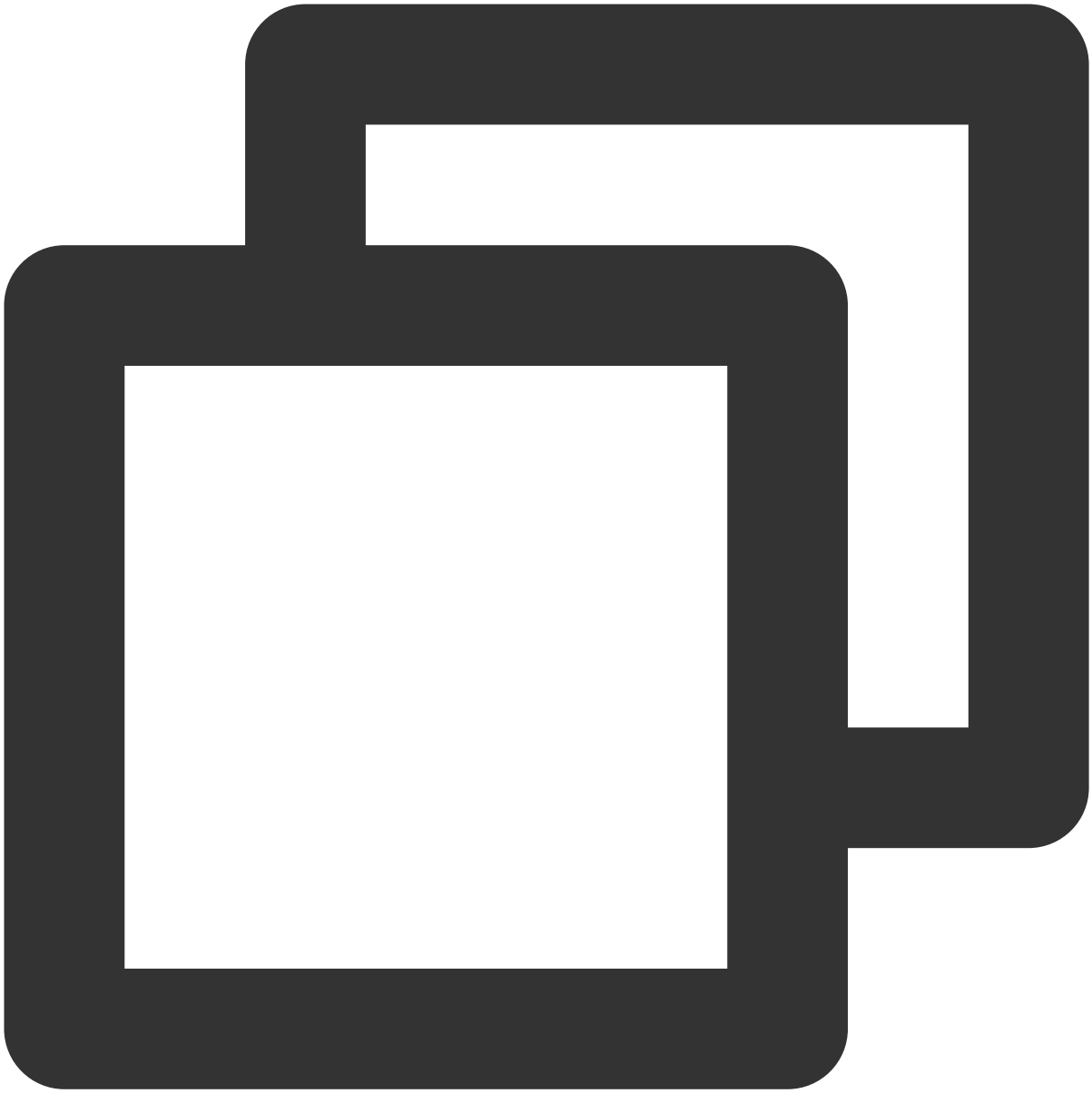

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>2022-07-18T15:16:44+0800</EndTime>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/deer.jpg</Object>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>c93984788066911ed89ed352d4d9d2084</JobId>
        <Message/>
        <Operation>
            <Output>
                <Bucket>test-1234567890</Bucket>
                <Object>output/out.jpg</Object>
                <Region>ap-chongqing</Region>
            </Output>
            <PicProcessResult>
                <ObjectName>output/out.jpg</ObjectName>
                <OriginalInfo>
                    <Etag>"d5a491cd3d8d071e3212c3478e8e35a1"</Etag>
                    <ImageInfo>
                        <Ave>0xc64847</Ave>
                        <Format>JPEG</Format>
                        <Height>417</Height>
                        <Orientation>0</Orientation>
                        <Quality>68</Quality>
                        <Width>500</Width>
                    </ImageInfo>
                </OriginalInfo>
                <ProcessResult>
                    <Etag/>
                    <Format>JPEG</Format>
                    <Height>500</Height>
                    <Quality>68</Quality>
                    <Size>24911</Size>
                    <Width>417</Width>
                </ProcessResult>
            </PicProcessResult>
            <TemplateId>t10461fe2bd5a649db9022452ec71e0381</TemplateId>
            <TemplateName>test</TemplateName>
            <UserData>This is my PicProcess job.</UserData>
        </Operation>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <StartTime>2022-07-18T15:16:44+0800</StartTime>
        <State>Success</State>
        <Tag>PicProcess</Tag>
    </JobsDetail>
</Response>
```

Sample 2: Job callback triggered by a workflow

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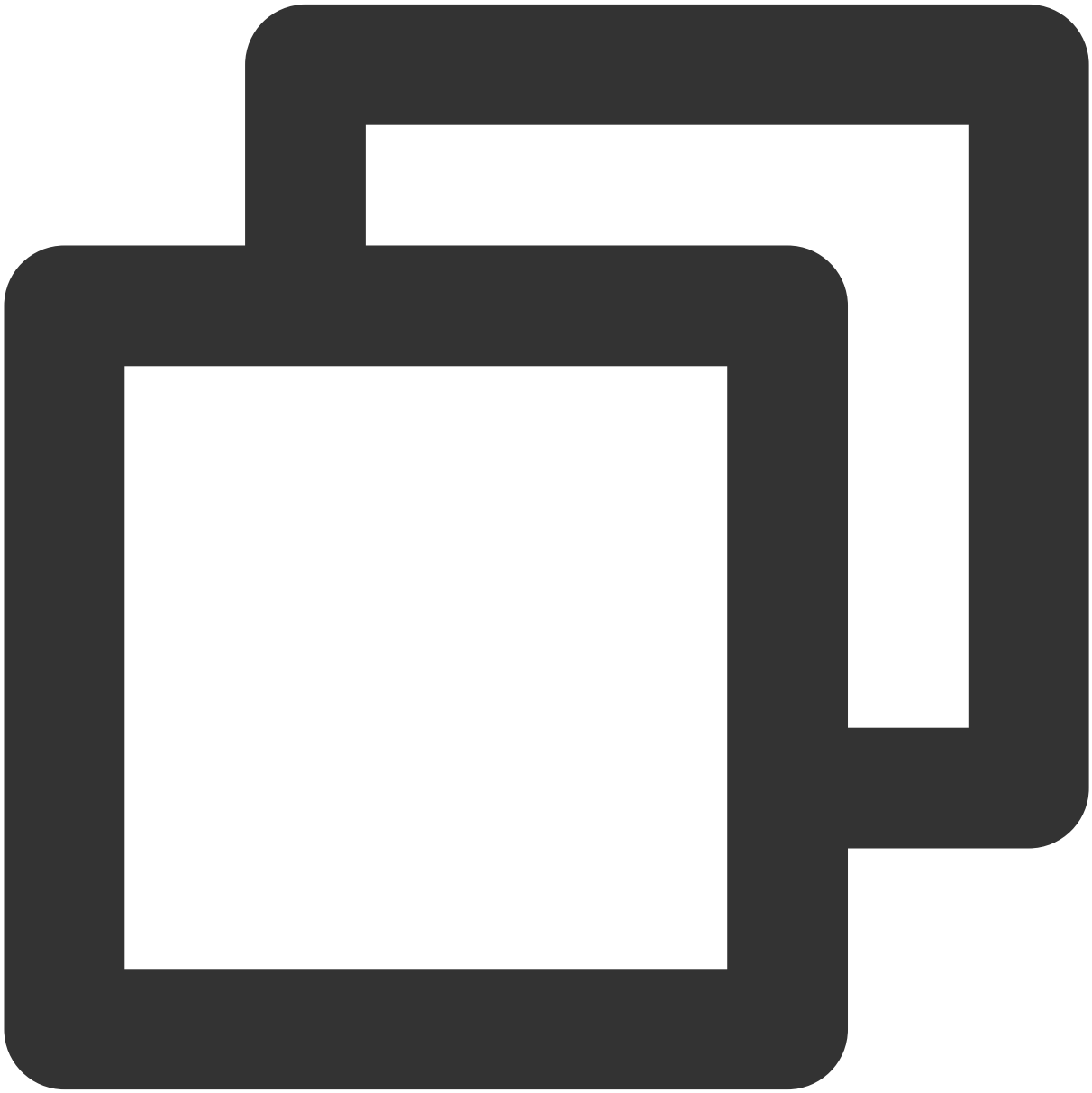

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-18T15:16:43+0800</CreationTime>
        <EndTime>2022-07-18T15:16:44+0800</EndTime>
        <Input>
            <BucketId>test-1234567890</BucketId>
            <Object>input/deer.jpg</Object>
            <Region>ap-chongqing</Region>
            <CosHeaders>
```

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```
            <Key>Content-Type</Key>
            <Value>image/jpeg</Value>
        </CosHeaders>
        <CosHeaders>
            <Key>x-cos-request-id</Key>
            <Value>NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5</Value>
        </CosHeaders>
        <CosHeaders>
            <Key>EventName</Key>
            <Value>cos:ObjectCreated:Put</Value>
        </CosHeaders>
        <CosHeaders>
            <Key>Size</Key>
            <Value>1024</Value>
        </CosHeaders>
    </Input>
    <JobId>c93984788066911ed89ed352d4d9d2084</JobId>
    <Message/>
    <Operation>
        <Output>
            <Bucket>test-1234567890</Bucket>
            <Object>output/out.jpg</Object>
            <Region>ap-chongqing</Region>
        </Output>
        <PicProcessResult>
            <ObjectName>output/out.jpg</ObjectName>
            <OriginalInfo>
                <Etag>"d5a491cd3d8d071e3212c3478e8e35a1"</Etag>
                <ImageInfo>
                    <Ave>0xc64847</Ave>
                    <Format>JPEG</Format>
                    <Height>417</Height>
                    <Orientation>0</Orientation>
                    <Quality>68</Quality>
                    <Width>500</Width>
                </ImageInfo>
            </OriginalInfo>
            <ProcessResult>
                <Etag/>
                <Format>JPEG</Format>
                <Height>500</Height>
                <Quality>68</Quality>
                <Size>24911</Size>
                <Width>417</Width>
            </ProcessResult>
        </PicProcessResult>
        <TemplateId>t10461fe2bd5a649db9022452ec71e0381</TemplateId>
```

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```
            <TemplateName>test</TemplateName>
            <UserData>This is my PicProcess job.</UserData>
        </Operation>
        <QueueId>p2911917386e148639319e13c285cc774</QueueId>
        <StartTime>2022-07-18T15:16:44+0800</StartTime>
        <State>Success</State>
        <Tag>PicProcess</Tag>
        <Workflow>
            <Name>PicProcess_1581665960537</Name>
            <RunId>ic90edd59f84f11ec9d4f525400a3c59f</RunId>
            <WorkflowId>web6ac56c1ef54dbfa44d7f4103203be9</WorkflowId>
            <WorkflowName>workflow-test</WorkflowName>
        </Workflow>
    </JobsDetail>
</Response>
```

Sample 3: Job callback in JSON format triggered by a workflow

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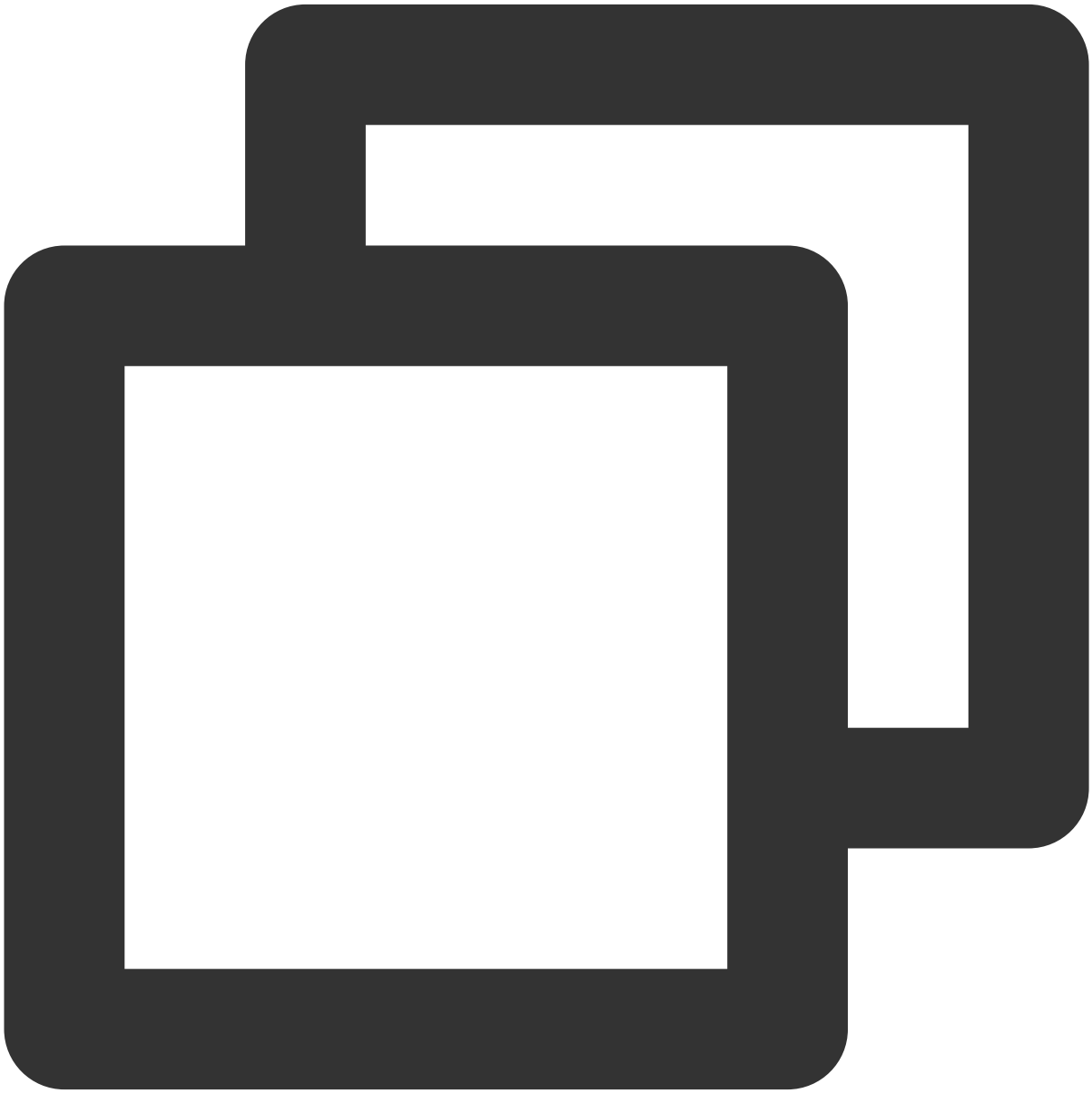

```
{
    "EventName": "TaskFinish",
    "JobsDetail": {
        "Code": "Success",
        "CreationTime": "2022-07-18T15:16:43+0800",
        "EndTime": "2022-07-18T15:16:44+0800",
        "Input": {
            "BucketId": "test-1234567890",
            "Object": "input/deer.jpg",
            "Region": "ap-chongqing",
            "CosHeaders": [{
```

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```
                    "Key": "Content-Type",
                    "Value": "image/jpeg"
                },
                {
                    "Key": "x-cos-request-id",
                    "Value": "NjJiZDYwYTFfNjUzYTYyNjRfZjEwZl8xMmZhYzY5"
                },
                {
                    "Key": "EventName",
                    "Value": "cos:ObjectCreated:Put"
                },
                {
                    "Key": "Size",
                    "Value": "1024"
                }
            ]
        },
        "JobId": "c93984788066911ed89ed352d4d9d2084",
        "Operation": {
            "Output": {
                "Bucket": "test-1234567890",
                "Object": "output/out.jpg",
                "Region": "ap-chongqing"
            },
            "PicProcessResult": {
                "ObjectName": "output/out.jpg",
                "OriginalInfo": {
                    "Etag": "\\"d5a491cd3d8d071e3212c3478e8e35a1\\"",
                    "ImageInfo": {
                        "Ave": "0xc64847",
                        "Format": "JPEG",
                        "Height": "417",
                        "Orientation": "0",
                        "Quality": "68",
                        "Width": "500"
                    }
                },
                "ProcessResult": {
                    "Format": "JPEG",
                    "Height": "500",
                    "Quality": "68",
                    "Size": "24911",
                    "Width": "417"
                }
            },
            "TemplateId": "t10461fe2bd5a649db9022452ec71e0381",
            "TemplateName": "test",
```


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```
            "UserData": "This is my PicProcess job."
        },
        "QueueId": "p2911917386e148639319e13c285cc774",
        "StartTime": "2022-07-18T15:16:44+0800",
        "State": "Success",
        "Tag": "PicProcess",
        "Workflow": {
            "Name": "PicProcess_1581665960537",
            "RunId": "ic90edd59f84f11ec9d4f525400a3c59f",
            "WorkflowId": "web6ac56c1ef54dbfa44d7f4103203be9",
            "WorkflowName": "workflow-test"
        }
    }
}
```

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Multi-Job Processing
Submitting Multiple Jobs
MultiJobs

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to submit multiple jobs.

Request

Sample request

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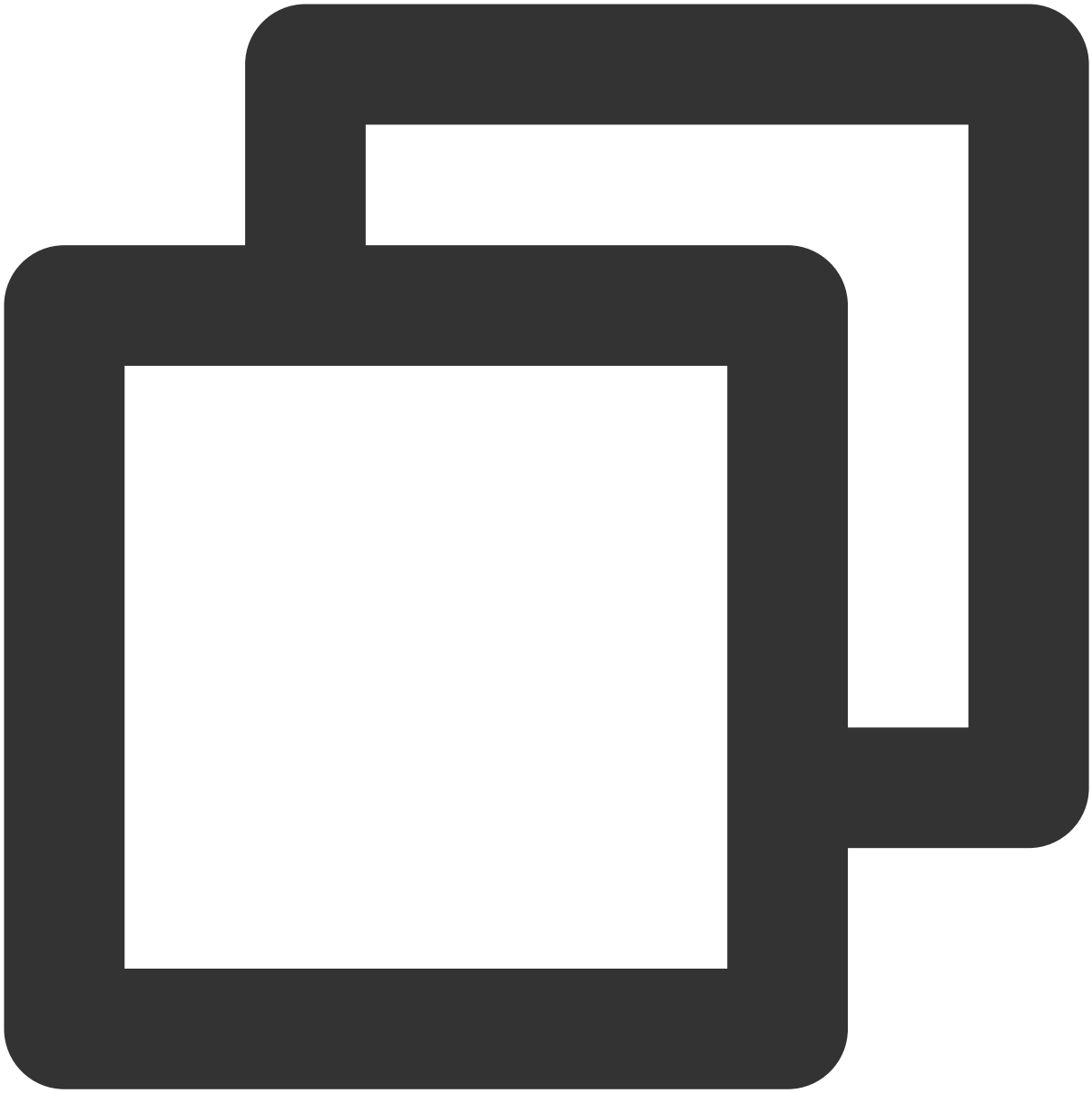

```
POST /jobs HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

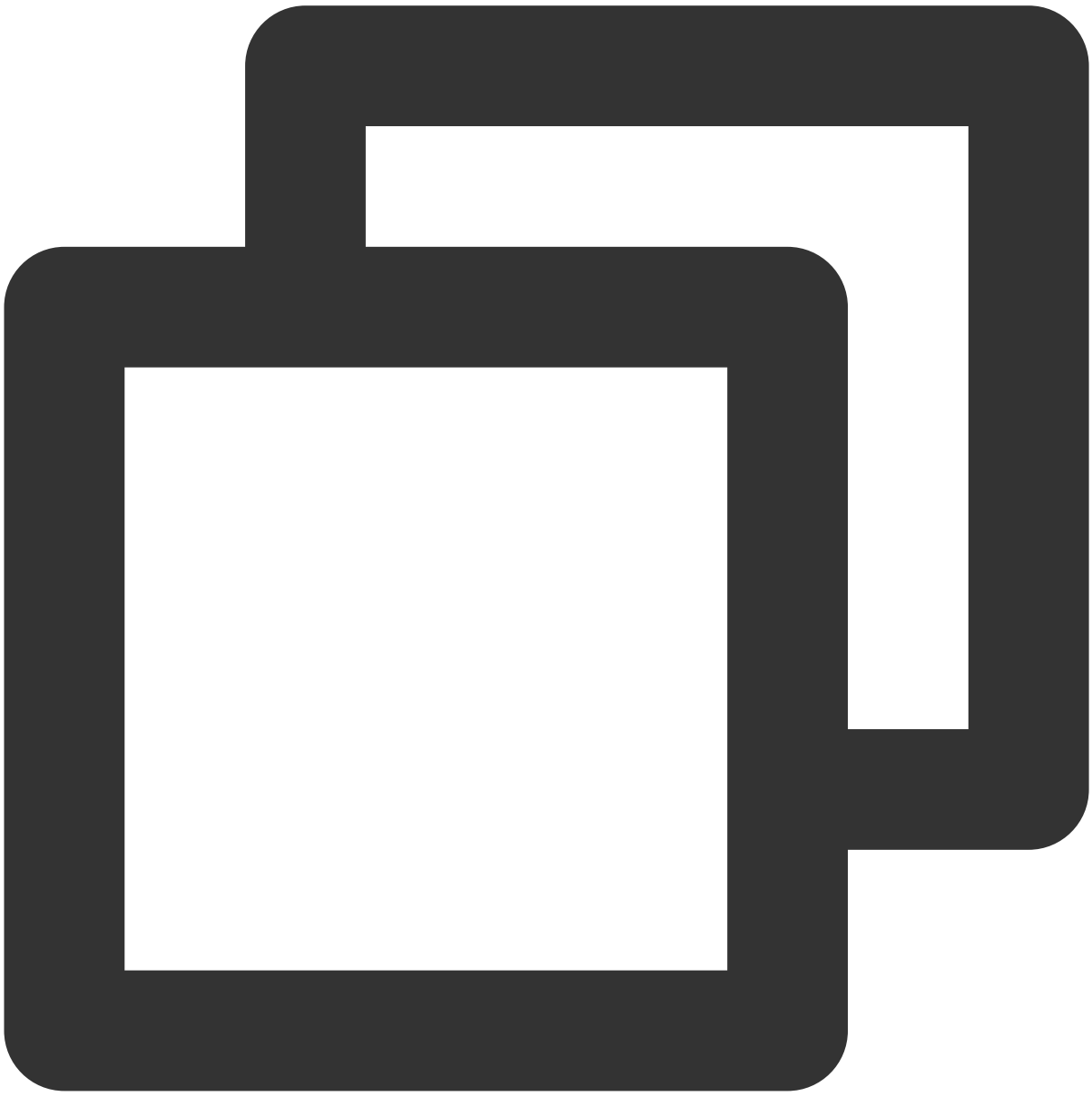
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Input>
        <Object>input/demo.mp4</Object>
    </Input>
    <Operation>
        <Tag>Animation</Tag>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/animation.gif</Object>
        </Output>
        <UserData>This is my Animation job.</UserData>
    </Operation>
    <Operation>
        <Tag>Transcode</Tag>
        <TemplateId>t1995d523e42df4c5e858f244b4174360c</TemplateId>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/transcode.mp4</Object>
        </Output>
        <UserData>This is my Trancode job.</UserData>
    </Operation>
    <Operation>
        <Tag>SmartCover</Tag>
        <SmartCover>
            <Format>jpg</Format>
            <Width>1280</Width>
            <Height>960</Height>
            <Count>5</Count>
            <DeleteDuplicates>true</DeleteDuplicates>
        </SmartCover>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/smartcover-${Number}.jpg</Object>
        </Output>
        <UserData>This is my SmartCover job.</UserData>
    </Operation>
    <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

The nodes are described as follows:

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Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Input	Request	Information of the media file to be processed	Container	Yes
Operation	Request	Operation rule. Up to six operation rules are supported.	Container	Yes
QueueId	Request	Queue ID of the job	String	Yes

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Media filename	String	Yes

The content of `Operation` varies by job type. For more information, see the following documents:

Submitting Video Transcoding Job
Submitting Video-to-Animated Image Conversion Job
Submitting Screenshot Job
Submitting Intelligent Thumbnail Job
Submitting Video Splicing Job
Submitting Voice/Sound Separation Job
Submitting Video Montage Job
Submitting SDR-to-HDR Job
Submitting Video Enhancement Job
Submitting Super Resolution Job
Submitting Remuxing Job
Submitting Digital Watermark Adding Job
Submitting Digital Watermark Extracting Job
Submitting Video Tagging Job
Submitting Media Information Query Job
Submitting Stream Separation Job
Submitting Video Quality Scoring Job
Submitting Text-to-Speech Job

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Submitting Audio Noise Cancellation Job

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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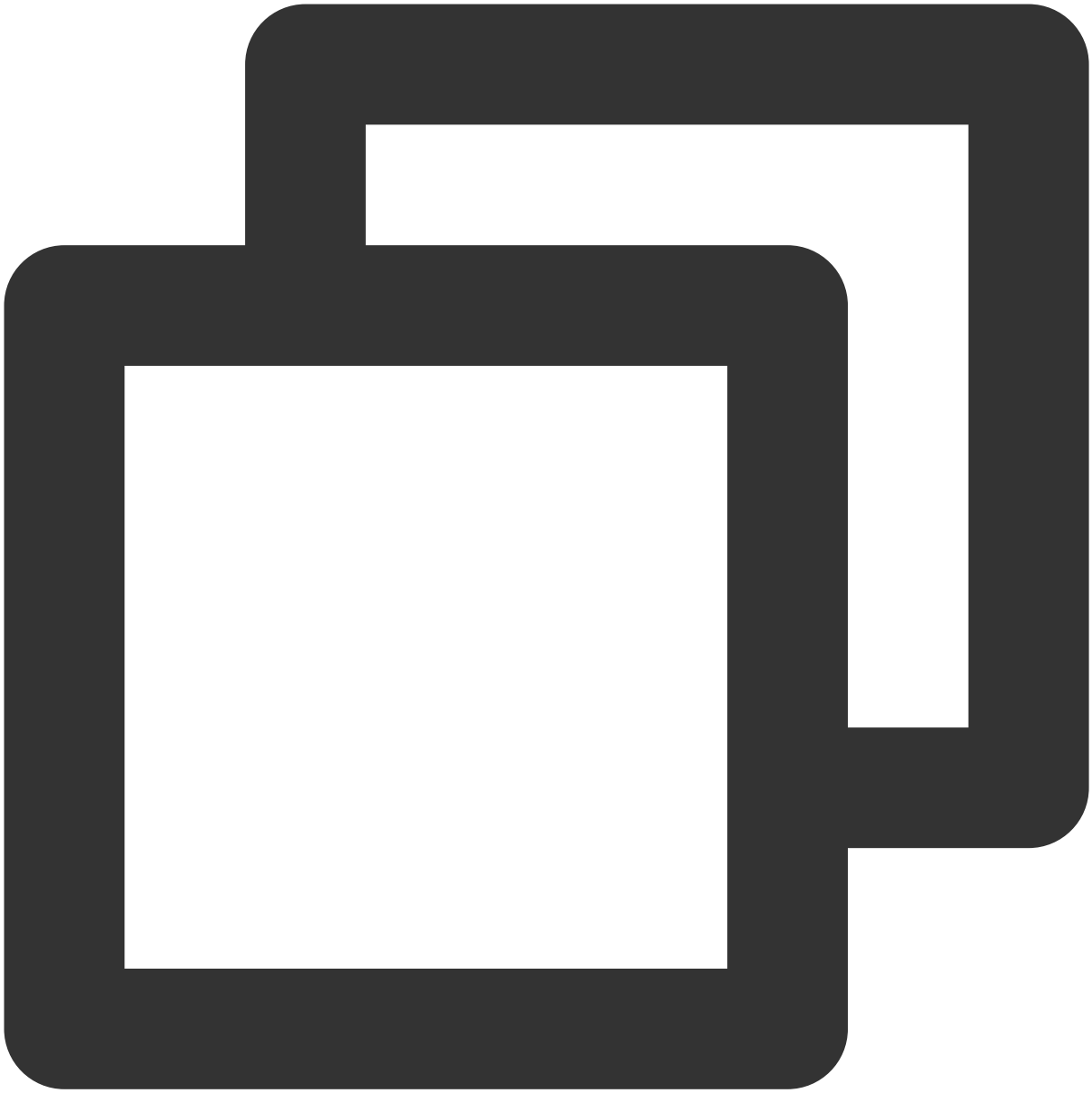

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>j682b9662f84611ecb8546d80f2baf56f</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Input>
```

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```
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Tag>Animation</Tag>
            <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
            <TemplateName>animation_demo</TemplateName>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/animation.gif</Object>
            </Output>
            <UserData>This is my Animation job.</UserData>
        </Operation>
    </JobsDetail>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>j68427030f84611ecb8546d80f2baf56f</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Tag>Transcode</Tag>
            <TemplateId>t1995d523e42df4c5e858f244b4174360c</TemplateId>
            <TemplateName>transcode_demo</TemplateName>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/transcode.mp4</Object>
            </Output>
            <UserData>This is my Trancode job.</UserData>
        </Operation>
    </JobsDetail>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>j6842765cf84611ecb8546d80f2baf56f</JobId>
        <State>Submitted</State>
```

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```
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Tag>SmartCover</Tag>
            <SmartCover>
                <Format>jpg</Format>
                <Width>1280</Width>
                <Height>960</Height>
                <Count>5</Count>
                <DeleteDuplicates>true</DeleteDuplicates>
            </SmartCover>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/smartcover-${Number}.jpg</Object>
            </Output>
            <UserData>This is my SmartCover job.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container array

The content of `JobsDetail` varies by job type. For more information, see the following documents:

Submitting Video Transcoding Job

Submitting Video-to-Animated Image Conversion Job

Submitting Video Frame Capturing Job

Submitting Intelligent Thumbnail Job

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Submitting Video Splicing Job
Submitting Voice/Sound Separation Job
Submitting Video Montage Job
Submitting SDR-to-HDR Job
Submitting Video Enhancement Job
Submitting Super Resolution Job
Submitting Remuxing Job
Submitting Digital Watermark Adding Job
Submitting Digital Watermark Extracting Job
Submitting Video Tagging Job
Submitting Media Information Query Job
Submitting Stream Separation Job
Submitting Video Quality Scoring Job
Submitting Text-to-Speech Job
Submitting Audio Noise Cancellation Job<

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Using multiple template IDs

Request

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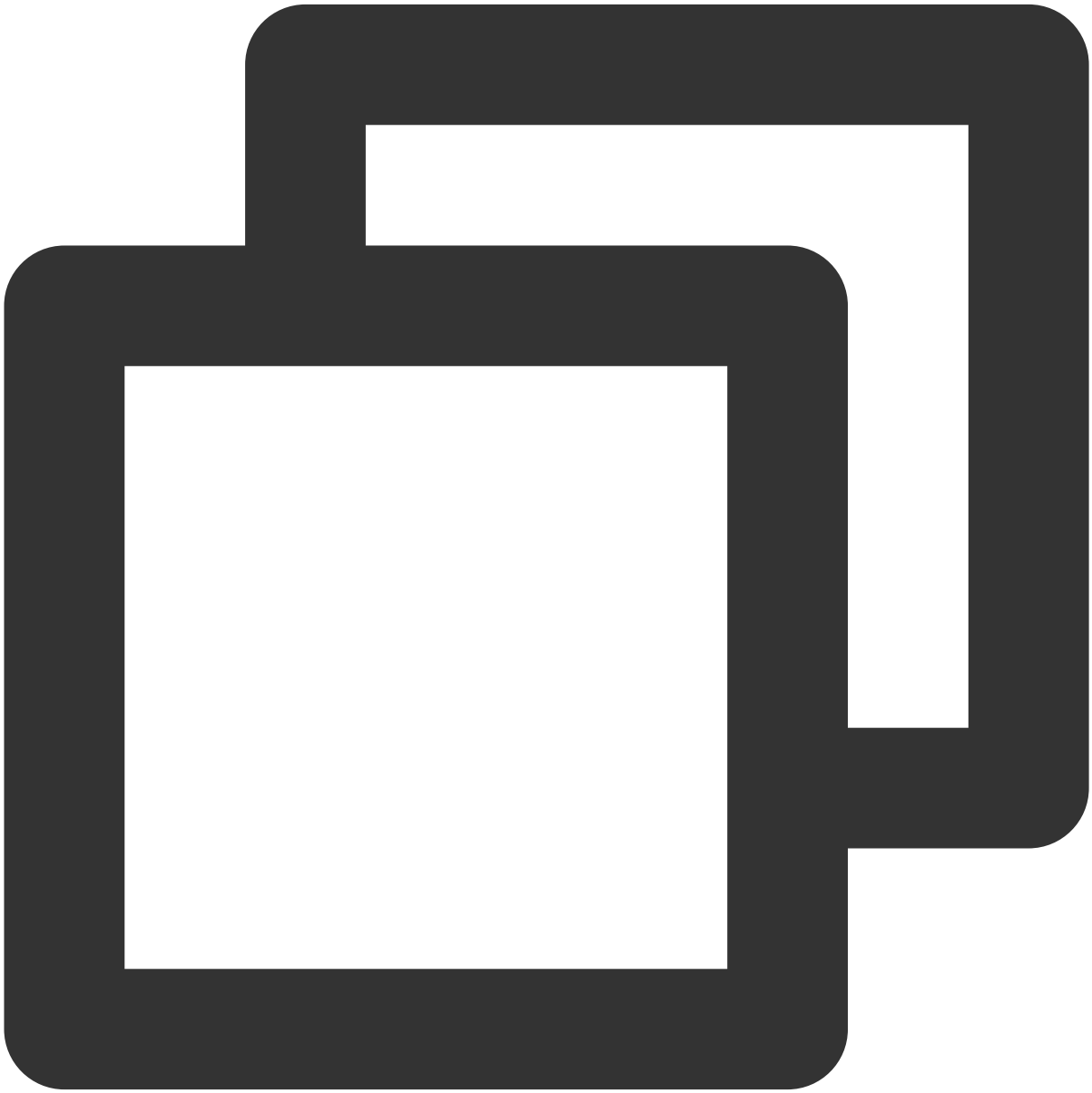

```
POST /jobs HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0**********&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Input>
        <Object>input/demo.mp4</Object>
    </Input>
    <Operation>
```

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```
        <Tag>Animation</Tag>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/animation.gif</Object>
        </Output>
        <UserData>This is my Animation job.</UserData>
    </Operation>
    <Operation>
        <Tag>Transcode</Tag>
        <TemplateId>t1995d523e42df4c5e858f244b4174360c</TemplateId>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/transcode.mp4</Object>
        </Output>
        <UserData>This is my Trancode job.</UserData>
    </Operation>
    <Operation>
        <Tag>SmartCover</Tag>
        <SmartCover>
            <Format>jpg</Format>
            <Width>1280</Width>
            <Height>960</Height>
            <Count>5</Count>
            <DeleteDuplicates>true</DeleteDuplicates>
        </SmartCover>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/smartcover-${Number}.jpg</Object>
        </Output>
        <UserData>This is my SmartCover job.</UserData>
    </Operation>
    <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

Response

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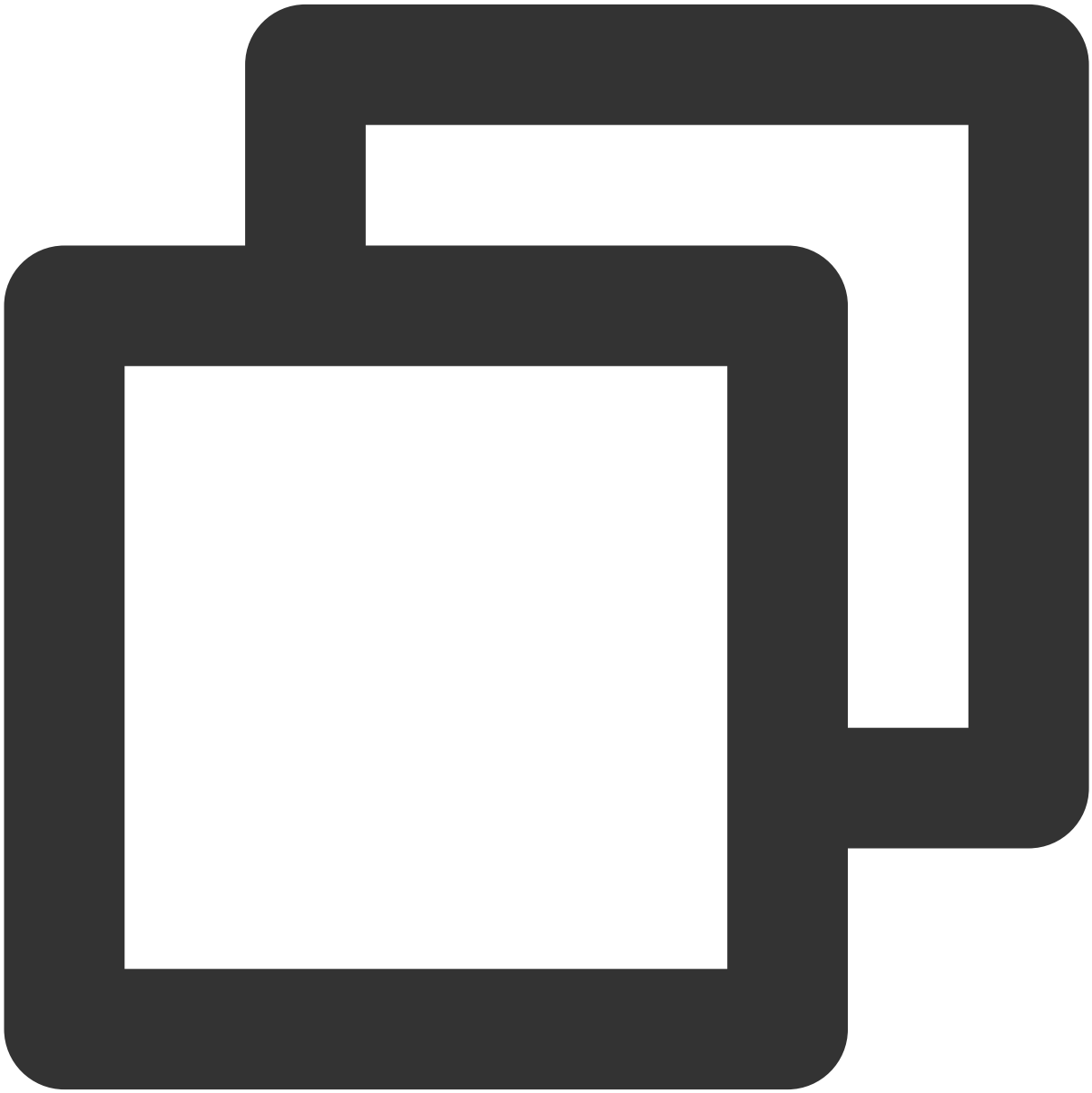

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>j682b9662f84611ecb8546d80f2baf56f</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Tag>Animation</Tag>
            <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
            <TemplateName>animation_demo</TemplateName>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/animation.gif</Object>
            </Output>
            <UserData>This is my Animation job.</UserData>
        </Operation>
    </JobsDetail>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>j68427030f84611ecb8546d80f2baf56f</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Tag>Transcode</Tag>
            <TemplateId>t1995d523e42df4c5e858f244b4174360c</TemplateId>
            <TemplateName>trancode_demo</TemplateName>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/transcode.mp4</Object>
            </Output>
```

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```
            <UserData>This is my Trancode job.</UserData>
        </Operation>
    </JobsDetail>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>j6842765cf84611ecb8546d80f2baf56f</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p2242ab62c7c94486915508540933a2c6</QueueId>
        <Input>
            <BucketId>test-123456789</BucketId>
            <Object>input/demo.mp4</Object>
            <Region>ap-chongqing</Region>
        </Input>
        <Operation>
            <Tag>SmartCover</Tag>
            <SmartCover>
                <Format>jpg</Format>
                <Width>1280</Width>
                <Height>960</Height>
                <Count>5</Count>
                <DeleteDuplicates>true</DeleteDuplicates>
            </SmartCover>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/smartcover-${Number}.jpg</Object>
            </Output>
            <UserData>This is my SmartCover job.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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AI-Based Content Recognition
Submitting Content Recognition Job
Submitting Translation Job

Last updated：2024-06-12 15:47:04

Overview

This API is used to submit a translation job.

Request

Sample request

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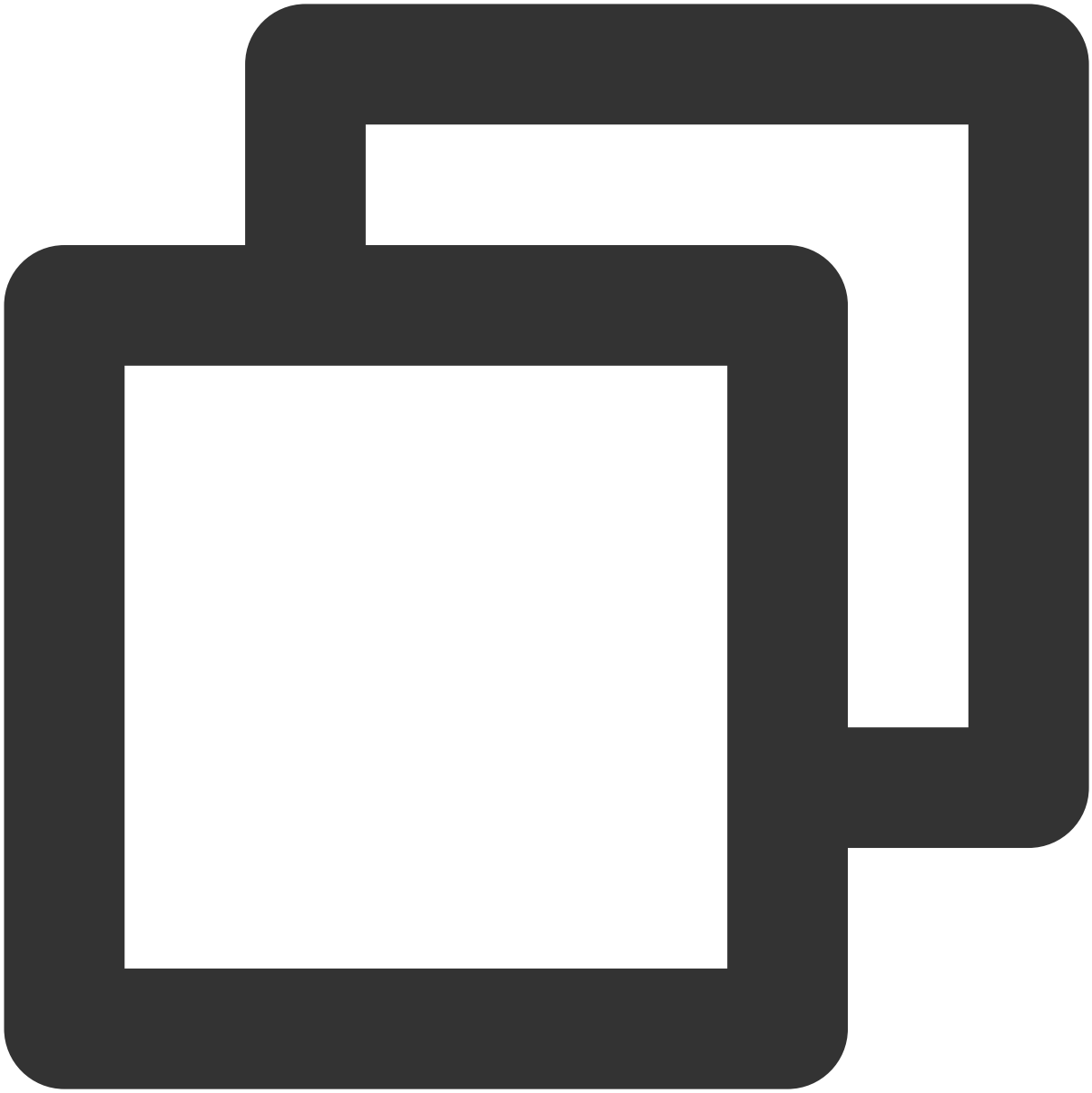

```
POST /ai_jobs HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (See Request Signature for details.)

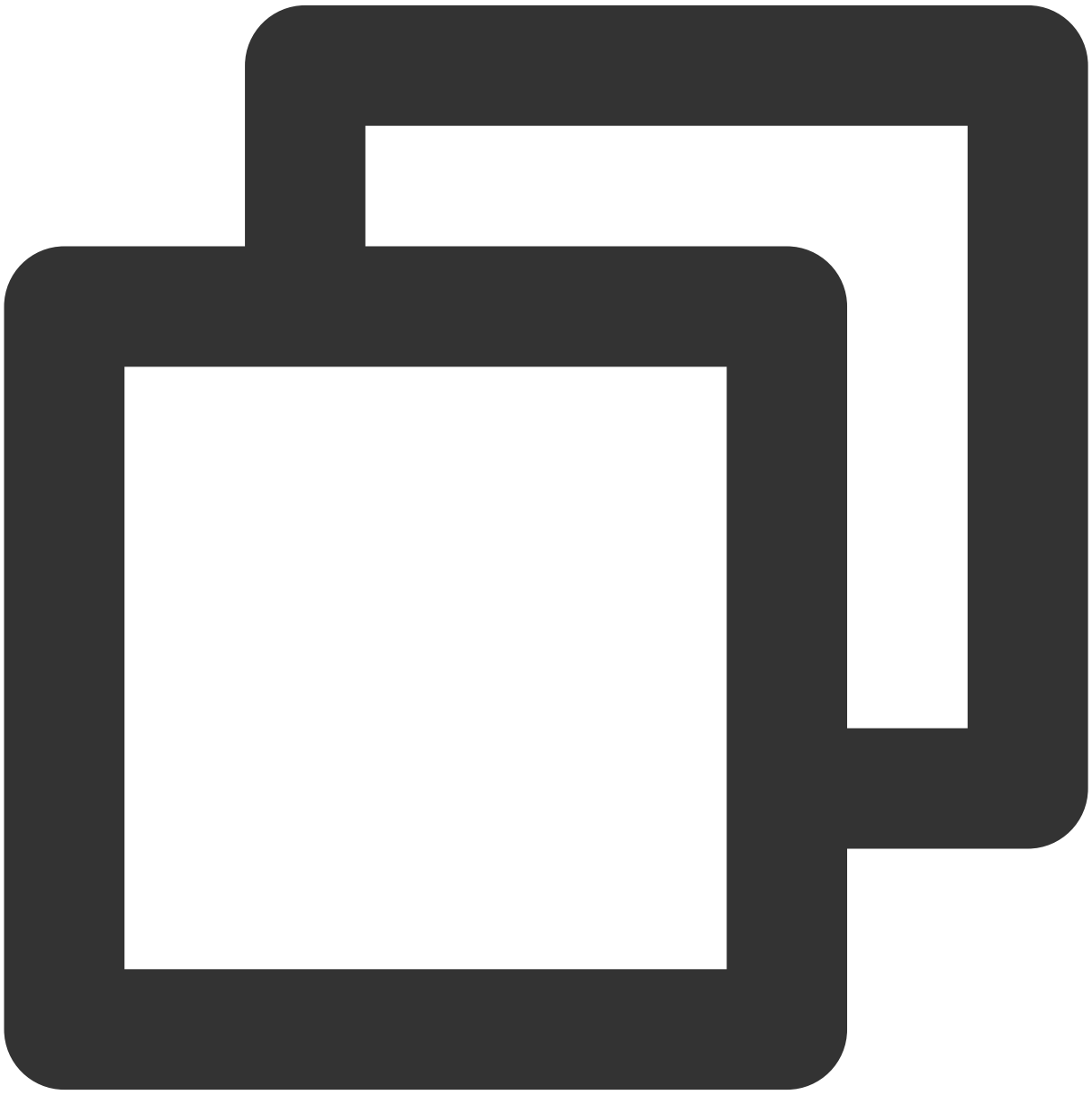
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Translation</Tag>
    <Input>
        <Object>input/en.pdf</Object>
        <Lang>en</Lang>
        <Type>pdf</Type>
        <BasicType>pptx</BasicType>
    </Input>
    <Operation>
        <Translation>
            <Lang>zh</Lang>
            <Type>pdf</Type>
        </Translation>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/zh.pdf</Object>
        </Output>
        <UserData>This is my data.</UserData>
        <JobLevel>0</JobLevel>
    </Operation>
    <QueueId>pcd463e1467964d39ad2d3f66aacd8199</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job type: Translation	String	Yes
Input	Request	Information about the object to be operated	Container	Yes
Operation	Request	Operation rule	Container	Yes
QueueId	Request	ID of the queue where the job is in	String	Yes
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default). It has a higher priority	String	No

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		than that of the queue.		
CallBackType	Request	Job callback type, which can be `Url` (default) or `TDMQ`. It has a higher priority than that of the queue.	String	No
CallBack	Request	Job callback address, which has a higher priority than that of the queue. If it is set to `no`, no callbacks will be generated at the callback address of the queue.	String	No
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure > CallBackMqConfig, which is required if `CallBackType` is `TDMQ`.	Container	No

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Object	Request.Input	Source filename	String	Yes	Single file (docx/xlsx/html/markdown/txt): 8 million characters Number of pages (pdf/pptx): 300 pages Text file (txt): 10 MB Binary file (pdf/docx/pptx/xlsx): 60 MB Image file (jpg/jpeg/png): 10 MB
Lang	Request.Input	File language	String	Yes	`zh`: Simplified Chinese `zh-hk`: Traditional Chinese `zh-tw`: Traditional Chinese `zh-tr`: Traditional Chinese `en`: English `ar`: Arabic `de`: German `es`: Spanish `fr`: French `id`: Indonesian `it`: Italian `ja`: Japanese `pt`: Portuguese `ru`: Russian

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					`ko` : Korean `km` : Khmer `lo` : Lao
Type	Request.Input	File type	String	Yes	pdf docx pptx xlsx txt xml html: Only text nodes in HTML files can be translated, while nodes that need to be dynamically loaded through JS cannot. markdown jpg jpeg png
BasicType	Request.Input	Original file type	String	No	This parameter can be used only if `Type` is `pdf` , `jpg` , `jpeg` , or `png` . If `Type` is `pdf` , only values `docx` and `pptx` are supported. If `Type` is `jpg` , `jpeg` , `png` , or `webp` , only value `txt` is supported. If this parameter is left empty, the translation result is returned.

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Translation	Request.Operation	Translation parameter	Container	Yes
Output	Request.Operation	Result output address	Container	Yes (No if `NoNeedOutput` is `true`)
UserData	Request.Operation	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No

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JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0` (default), `1`, `2`.	String	No
NoNeedOutput	Request.Operation	Whether to output results without generating a result file. Valid values: `true`, `false`. This parameter is valid if the original file is an image.	String	No

`Translation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Lang	Request.Operation.Translation	Target language	String	Yes	If the source language is `zh`, `zh-hk`, `zh-tw`, or `zh-tr`, this parameter can be `en`, `ar`, `de`, `es`, `fr`, `id`, `it`, `ja`, `ru`, `ko`, `km`, `lo`, or `pt`. If the source language is `en`, this parameter can be `zh`, `zh-hk`, `zh-tw`, `zh-tr`, `ar`, `de`, `es`, `fr`, `id`, `it`, `ja`, `ru`, `ko`, `km`, `lo`, or `pt`. If the source language is other types, this parameter can be `zh`, `zh-hk`, `zh-tw`, `zh-tr`, or `en`.

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Type	Request.Operation.Translation	File type	String	Yes	The mappings between source file types and target file types are as follows: `docx` : docx `pptx` : pptx `xlsx` : xlsx `txt` : txt `xml` : xml `html` : html `markdown` : markdown `pdf` : pdf, docx `png` : txt `jpg` : txt `jpeg` : txt

`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Region	Request.Operation.Output	Bucket region	String	Yes
Bucket	Request.Operation.Output	Result storage bucket	String	Yes
Object	Request.Operation.Output	Result file name	String	Yes

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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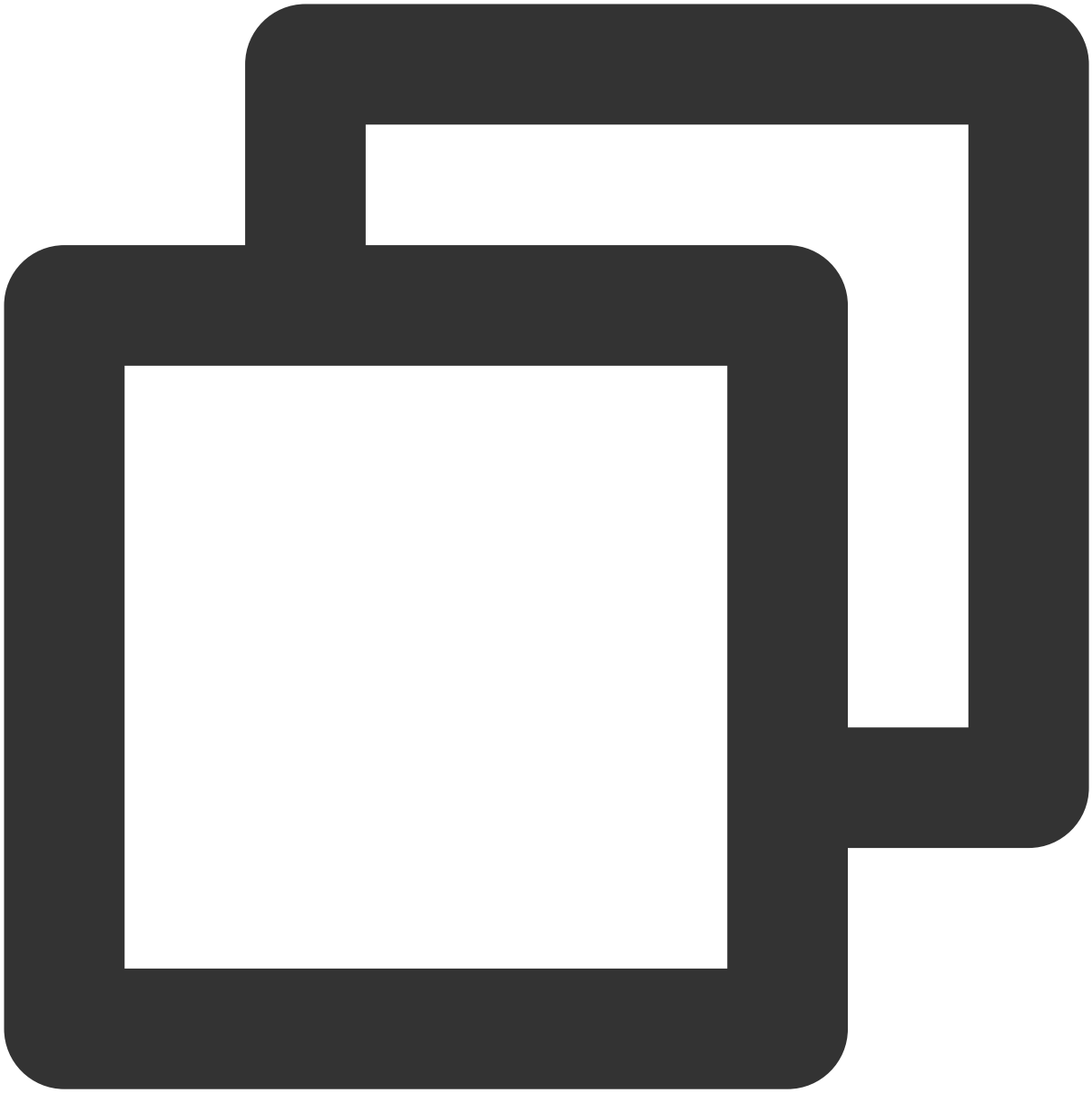

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>ac7c990a00bf211ed946af9e0691f2b7a</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T14:44:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>pcd463e1467964d39ad2d3f66aacd8199</QueueId>
        <Tag>Translation</Tag>
```

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```
        <Input>
            <Object>input/en.pdf</Object>
            <Lang>en</Lang>
            <Type>pdf</Type>
            <BasicType>pptx</BasicType>
        </Input>
        <Operation>
            <Translation>
                <Lang>zh</Lang>
                <Type>pdf</Type>
            </Translation>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/zh.pdf</Object>
            </Output>
            <UserData>This is my data.</UserData>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is returned only if `State` is `Failed`	String
Message	Response.JobsDetail	Error message, which is returned only if `State` is `Failed`	String

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JobId	Response.JobsDetail	Job ID	String
Tag	Response.JobsDetail	Job type: `Translation`	String
State	Response.JobsDetail	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Response.JobsDetail	Job creation time	String
StartTime	Response.JobsDetail	Job start time	String
EndTime	Response.JobsDetail	Job end time	String
QueueId	Response.JobsDetail	ID of the queue where the job is in	String
Input	Response.JobsDetail	Same as the `Request.Input` node in the request	Container
Operation	Response.JobsDetail	Operation rule. Up to 6 operation rules are supported.	Container

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Translation	Response.JobsDetail.Operation	Same as `Request.Operation.Translation` in the request.	Containe
Output	Response.JobsDetail.Operation	Same as `Request.Operation.Output` in the request.	Containe
UserData	Response.JobsDetail.Operation	The user information passed through.	String
JobLevel	Response.JobsDetail.Operation	Job priority	String
AITranslateResult	Response.JobsDetail.Operation	Translation result details	Containe

`AITranslateResult` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Result	Response.JobsDetail.Operation	Translation result content	String

Error codes

No special error message will be returned for this request. For the common error messages, please see Error Codes.

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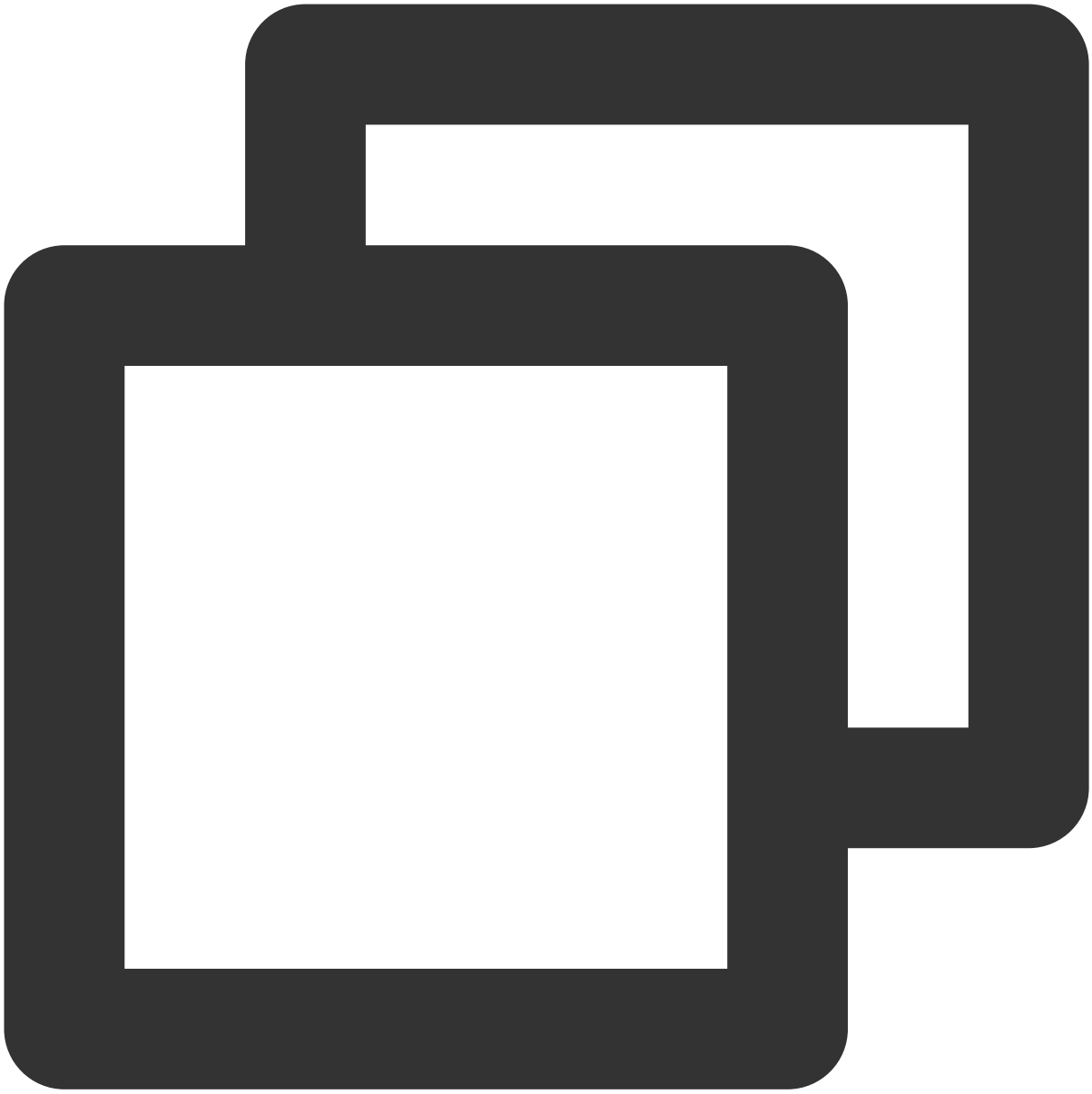
Examples

Request



```
POST /ai_jobs HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml
```

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```
<Request>
    <Tag>Translation</Tag>
    <Input>
        <Object>input/en.pdf</Object>
        <Lang>en</Lang>
        <Type>pdf</Type>
        <BasicType>pptx</BasicType>
    </Input>
    <Operation>
        <Translation>
            <Lang>zh</Lang>
            <Type>pdf</Type>
        </Translation>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-123456789</Bucket>
            <Object>output/zh.pdf</Object>
        </Output>
        <UserData>This is my data.</UserData>
        <JobLevel>0</JobLevel>
    </Operation>
    <QueueId>pcd463e1467964d39ad2d3f66aacd8199</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

Response

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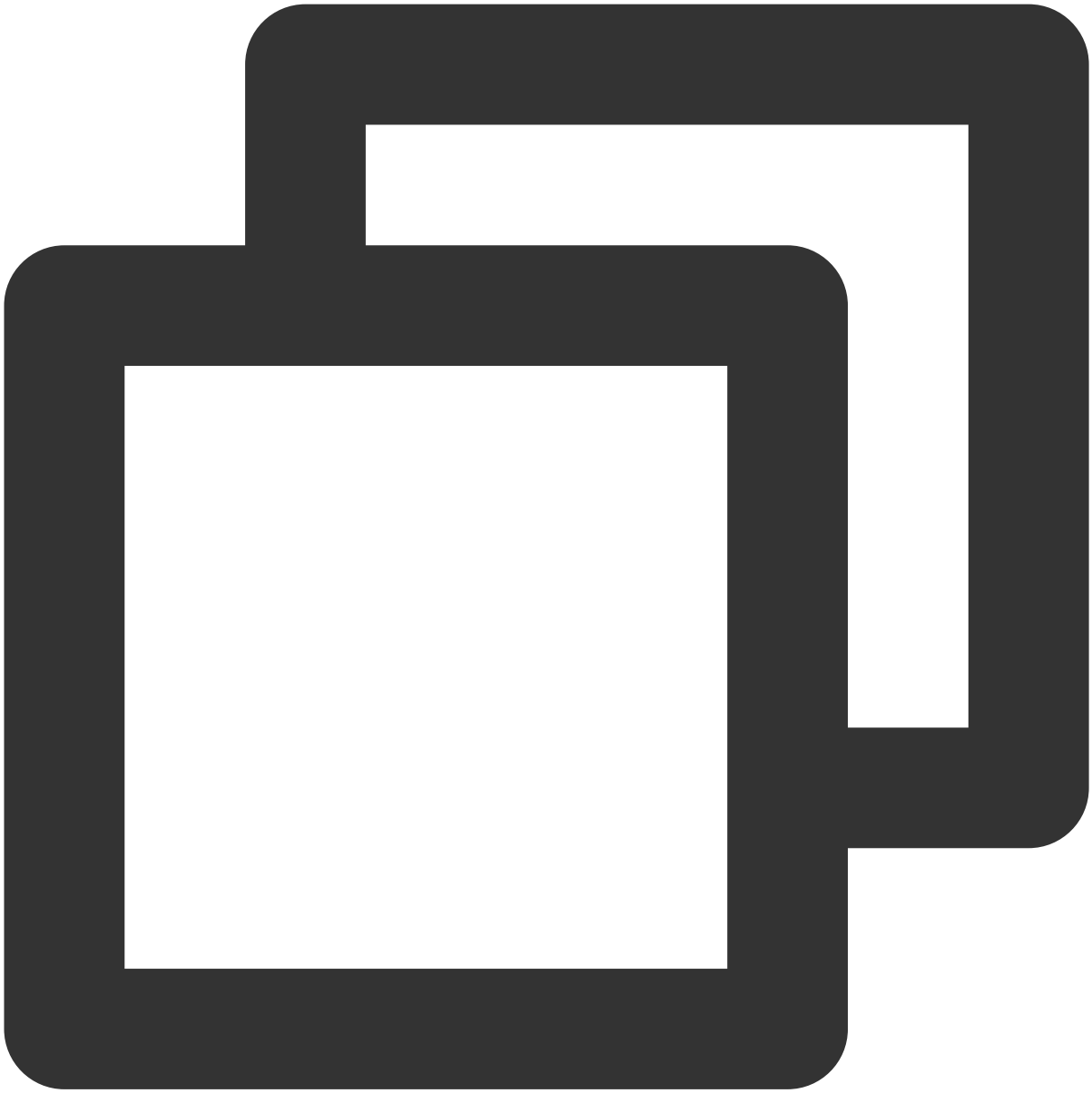

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>ac7c990a00bf211ed946af9e0691f2b7a</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T14:44:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>pcd463e1467964d39ad2d3f66aacd8199</QueueId>
        <Tag>Translation</Tag>
        <Input>
            <Object>input/en.pdf</Object>
            <Lang>en</Lang>
            <Type>pdf</Type>
            <BasicType>pptx</BasicType>
        </Input>
        <Operation>
            <Translation>
                <Lang>zh</Lang>
                <Type>pdf</Type>
            </Translation>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>output/zh.pdf</Object>
            </Output>
            <UserData>This is my data.</UserData>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
</Response>
```

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Submitting Word Segmentation Job

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to submit a word segmentation job.

Request

Sample request

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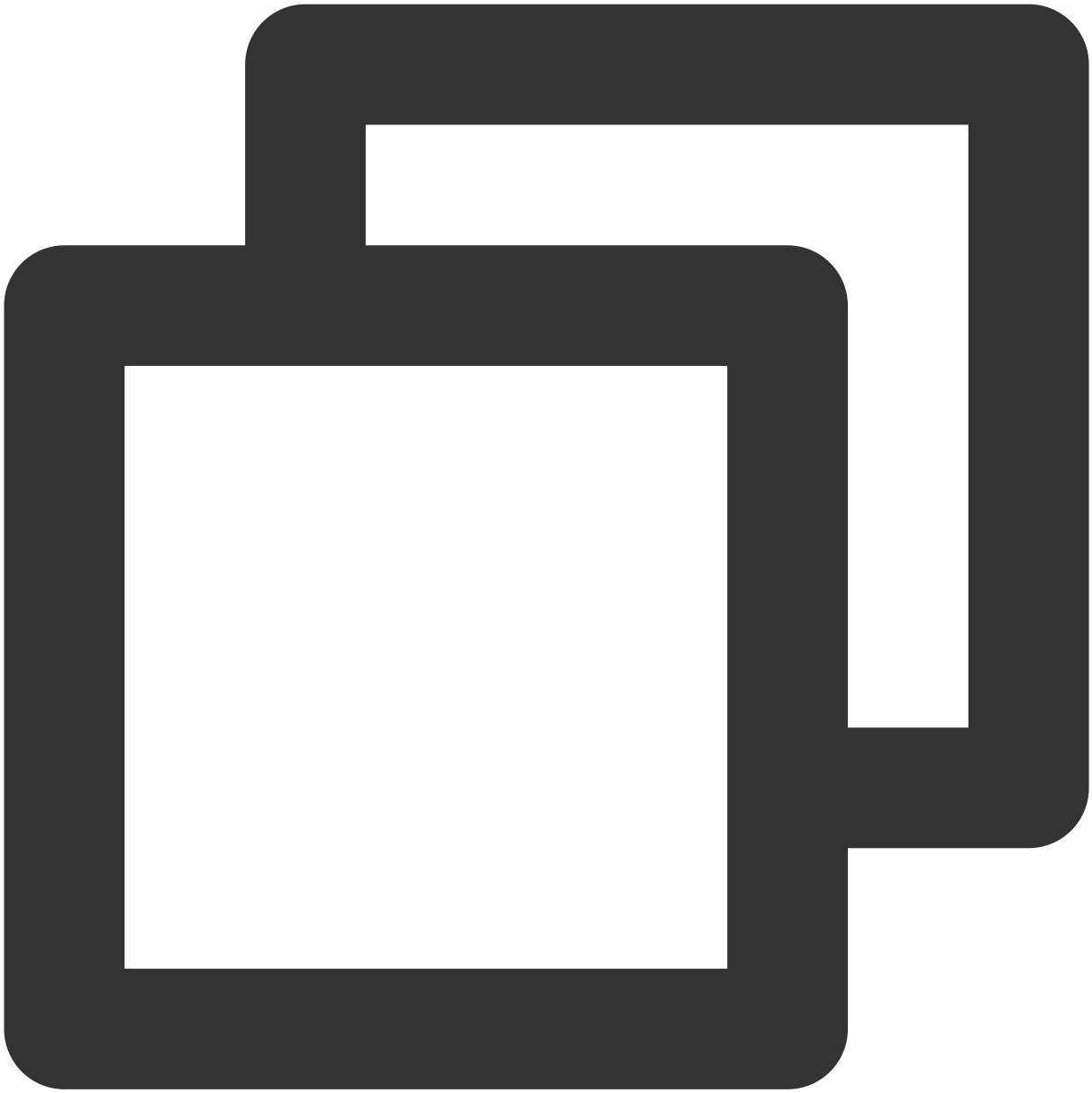

```
POST /ai_jobs HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

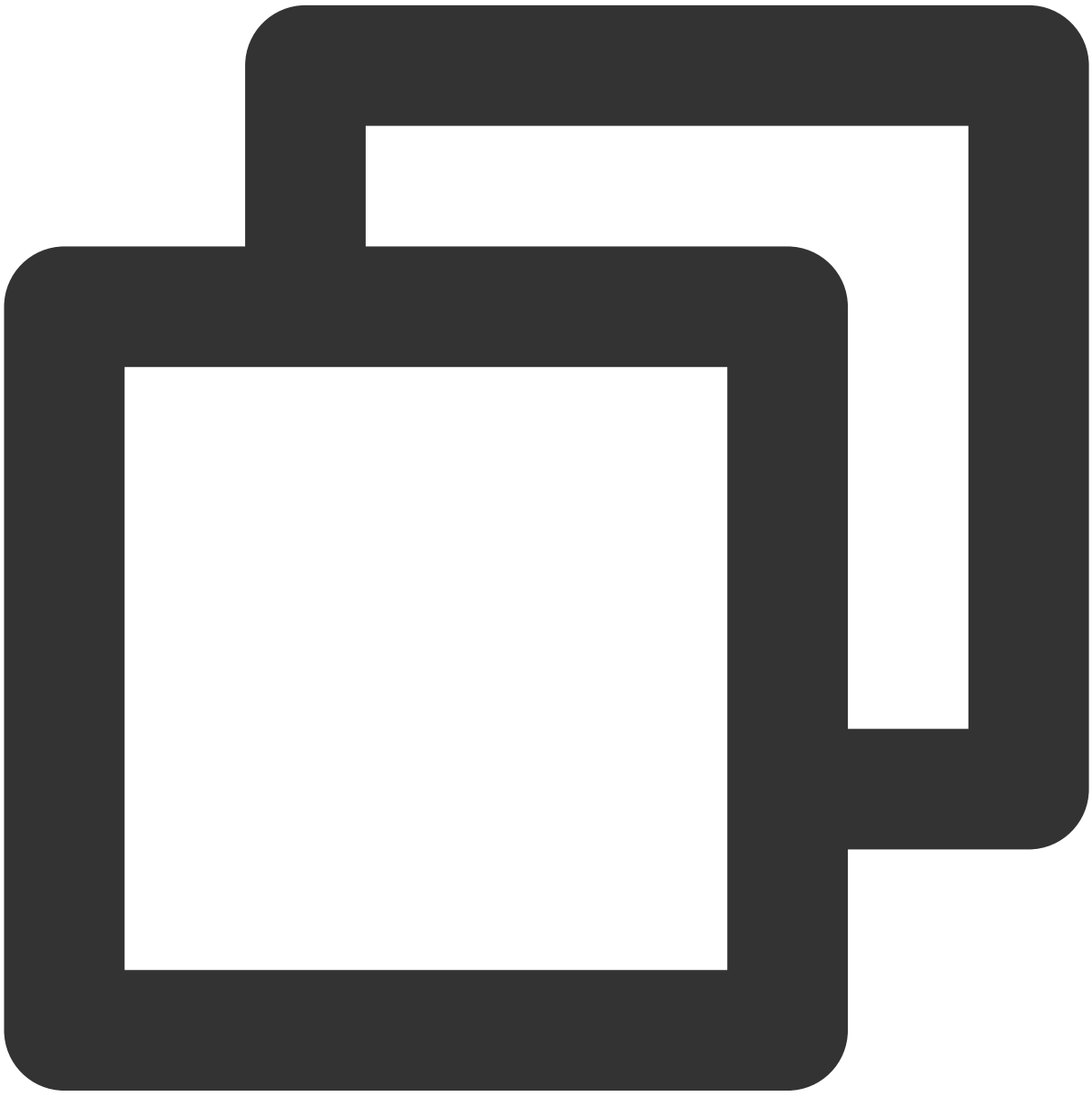
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>WordsGeneralize</Tag>
    <Input>
        <Object>text.txt</Object>
    </Input>
    <Operation>
        <WordsGeneralize>
            <NerMethod>DL</NerMethod>
            <SegMethod>Mix</SegMethod>
        </WordsGeneralize>
        <UserData>This is my data.</UserData>
        <JobLevel>0</JobLevel>
    </Operation>
    <QueueId>pcd463e1467964d39ad2d3f66aacd8199</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: WordsGeneralize	String	Yes
Input	Request	Information of the object to be processed	Container	Yes
Operation	Request	Operation rule	Container	Yes
QueueId	Request	Queue ID of the job	String	Yes
CallBack	Request	Job callback address, which has a higher priority than that of the queue. If it is set to `no`, no callbacks will be generated at the callback address of the queue.	String	No
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It has a higher priority than that of the queue.	String	No

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`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
WordsGeneralize	Request.Operation	Word segmentation parameter	Container	Yes
UserData	Request.Operation	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No
JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0`, `1`, `2`. Default value: `0`.	String	No

`WordsGeneralize` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
NerMethod	Request.Operation.WordsGeneralize	NER method. Default value: `DL`.	String	No	`NerBasic` or `DL`
SegMethod	Request.Operation.WordsGeneralize	Word segmentation granularity. Default value: `MIX`.	String	No	`SegBasic` or `MIX`

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

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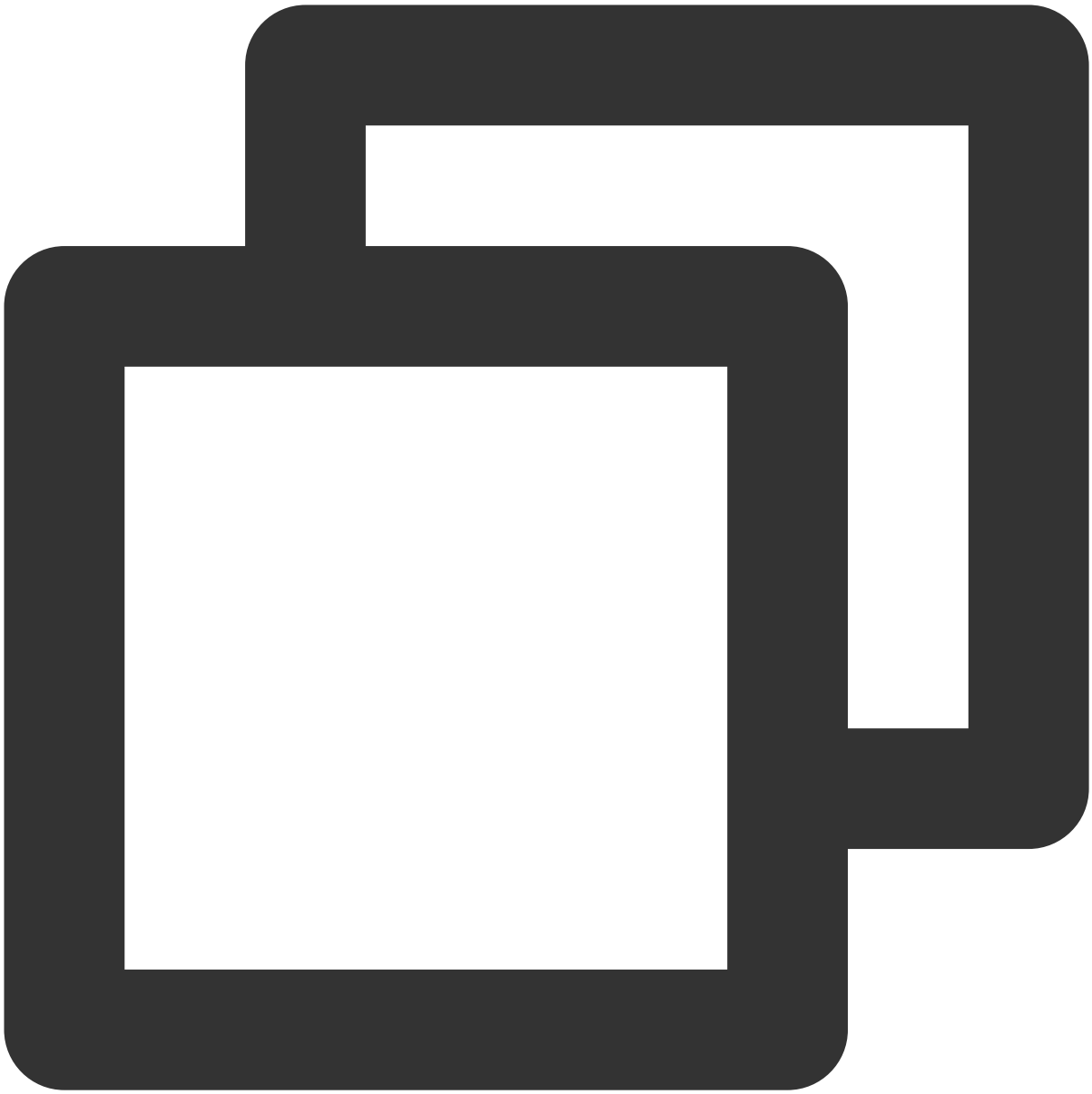
The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <JobId>ac7c990a00bf211ed946af9e0691f2b7a</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T14:44:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
```

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```
        <QueueId>pcd463e1467964d39ad2d3f66aacd8199</QueueId>
        <Tag>WordsGeneralize</Tag>
        <Input>
            <Object>text.txt</Object>
        </Input>
        <Operation>
            <WordsGeneralize>
                <NerMethod>DL</NerMethod>
                <SegMethod>Mix</SegMethod>
            </WordsGeneralize>
            <UserData>This is my data.</UserData>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container

`JobsDetail`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is returned only if `State` is `Failed`	String
Message	Response.JobsDetail	Error message, which is returned only if `State` is `Failed`	String
JobId	Response.JobsDetail	Job ID	String
Tag	Response.JobsDetail	Job tag: WordsGeneralize	String
State	Response.JobsDetail	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String

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CreationTime	Response.JobsDetail	Job creation time	String
StartTime	Response.JobsDetail	Job start time	String
EndTime	Response.JobsDetail	Job end time	String
QueueId	Response.JobsDetail	ID of the queue which the job is in	String
Input	Response.JobsDetail	Same as the `Request.Input` node in the request	Container
Operation	Response.JobsDetail	Operation rule	Container

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
WordsGeneralize	Response.JobsDetail.Operation	Same as `Request.Operation.WordsGeneralize` in the request
UserData	Response.JobsDetail.Operation	The user information passed through
JobLevel	Response.JobsDetail.Operation	Job priority
WordsGeneralizeResult	Response.JobsDetail.Operation	Word segmentation result, which will be returned if the job is executed successfully.

`WordsGeneralizeResult` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
WordsGeneralizeLable	Response.JobsDetail.Operation.WordsGeneralizeResult	Smart categorization result	Contain array
WordsGeneralizeToken	Response.JobsDetail.Operation.WordsGeneralizeResult	Detailed word segmentation result	Contain array

`WordsGeneralizeLable` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	
Category	Response.JobsDetail.Operation.WordsGeneralizeResult.WordsGeneralizeLable	Category	

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Word	Response.JobsDetail.Operation.WordsGeneralizeResult.WordsGeneralizeLable	Word	

`WordsGeneralizeToken` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Word	Response.JobsDetail.Operation.WordsGeneralizeResult.WordsGeneralizeToken	Word
Offset	Response.JobsDetail.Operation.WordsGeneralizeResult.WordsGeneralizeToken	Offset
Length	Response.JobsDetail.Operation.WordsGeneralizeResult.WordsGeneralizeToken	Word length
Pos	Response.JobsDetail.Operation.WordsGeneralizeResult.WordsGeneralizeToken	Part of speech

See the subscript for the part of speech:

Value	Description
A	Adjective
AD	Adverbial adjective
AN	Nominal adjective
B	Distinguishing word
C	Conjunction
D	Adverb
E	Interjection
F	Locality word
G	Morpheme
H	Preceding component
I	Idiom
J	Abbreviation
K	Trailing component

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L	Idiom
M	Numeral
N	Noun
NR	Person name
NRF	Surname
NRG	First name
NS	Place name
NT	Organization
NZ	Other proper names
NX	Non-Chinese string
O	Onomatopoeia
P	Preposition
Q	Quantifier
R	Pronoun
S	Location word
T	Time word
U	Particle
V	Verb
VD	Adverbial verb
VN	Nominal verb
W	Punctuation
X	Non-morpheme word
Y	Modal particle
Z	State word
AG	Adjective morpheme

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BG	Distinguishing morpheme
DG	Adverbial morpheme
MG	Numeral morpheme
NG	Nominal morpheme
QG	Quantifying morpheme
RG	Pronominal morpheme
TG	Verbal morpheme
VG	Quantifying morpheme
YG	Modal morpheme
ZG	State morpheme
UNK	Unknown

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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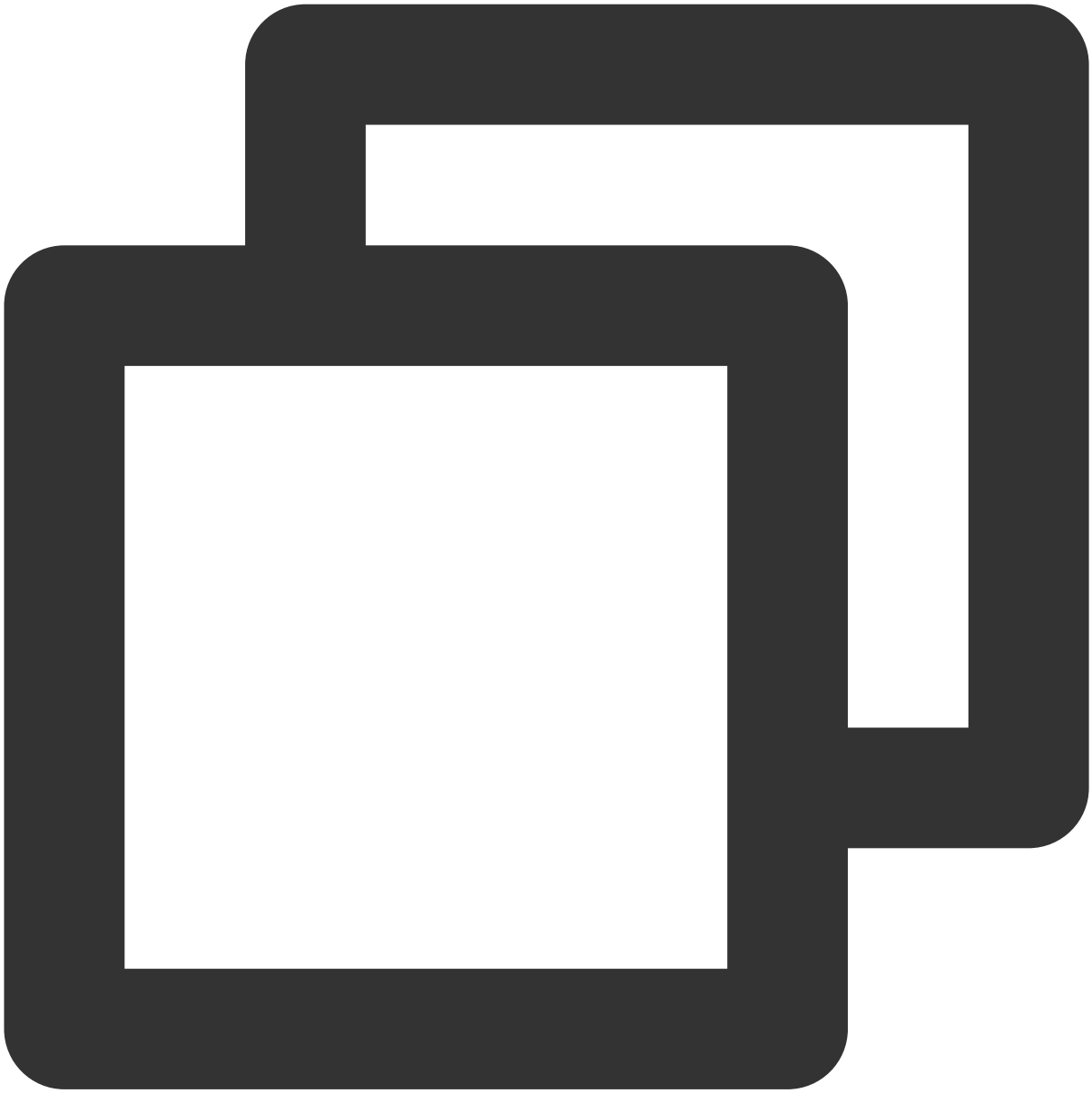

```
POST /ai_jobs HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-123456789.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Tag>WordsGeneralize</Tag>
    <Input>
        <Object>text.txt</Object>
    </Input>
```

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```
    <Operation>
        <WordsGeneralize>
            <NerMethod>DL</NerMethod>
            <SegMethod>Mix</SegMethod>
        </WordsGeneralize>
        <UserData>This is my data.</UserData>
        <JobLevel>0</JobLevel>
    </Operation>
    <QueueId>pcd463e1467964d39ad2d3f66aacd8199</QueueId>
    <CallBack>http://callback.demo.com</CallBack>
    <CallBackFormat>JSON<CallBackFormat>
</Request>
```

Response

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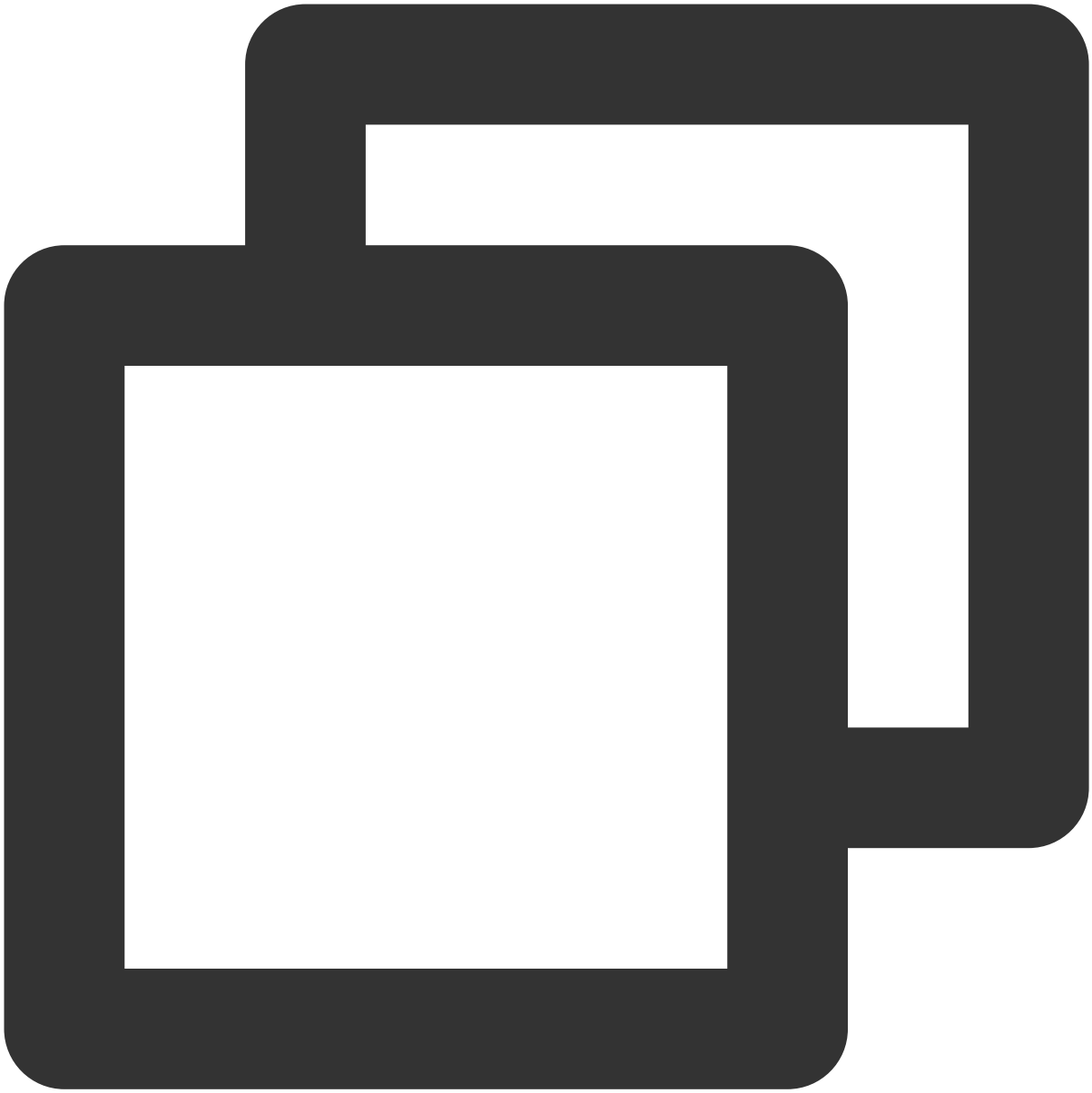

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message/>
        <JobId>ac7c990a00bf211ed946af9e0691f2b7a</JobId>
        <State>Submitted</State>
        <CreationTime>2022-06-27T14:44:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <QueueId>pcd463e1467964d39ad2d3f66aacd8199</QueueId>
        <Tag>WordsGeneralize</Tag>
        <Input>
            <Object>text.txt</Object>
        </Input>
        <Operation>
            <WordsGeneralize>
                <NerMethod>DL</NerMethod>
                <SegMethod>Mix</SegMethod>
            </WordsGeneralize>
            <UserData>This is my data.</UserData>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
</Response>
```

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Canceling Content Recognition Job

Last updated：2024-06-12 15:47:04

Feature Description

This API (`CancelAIJob`) is used to cancel a job. Only pending jobs can be canceled.

Request

Sample request

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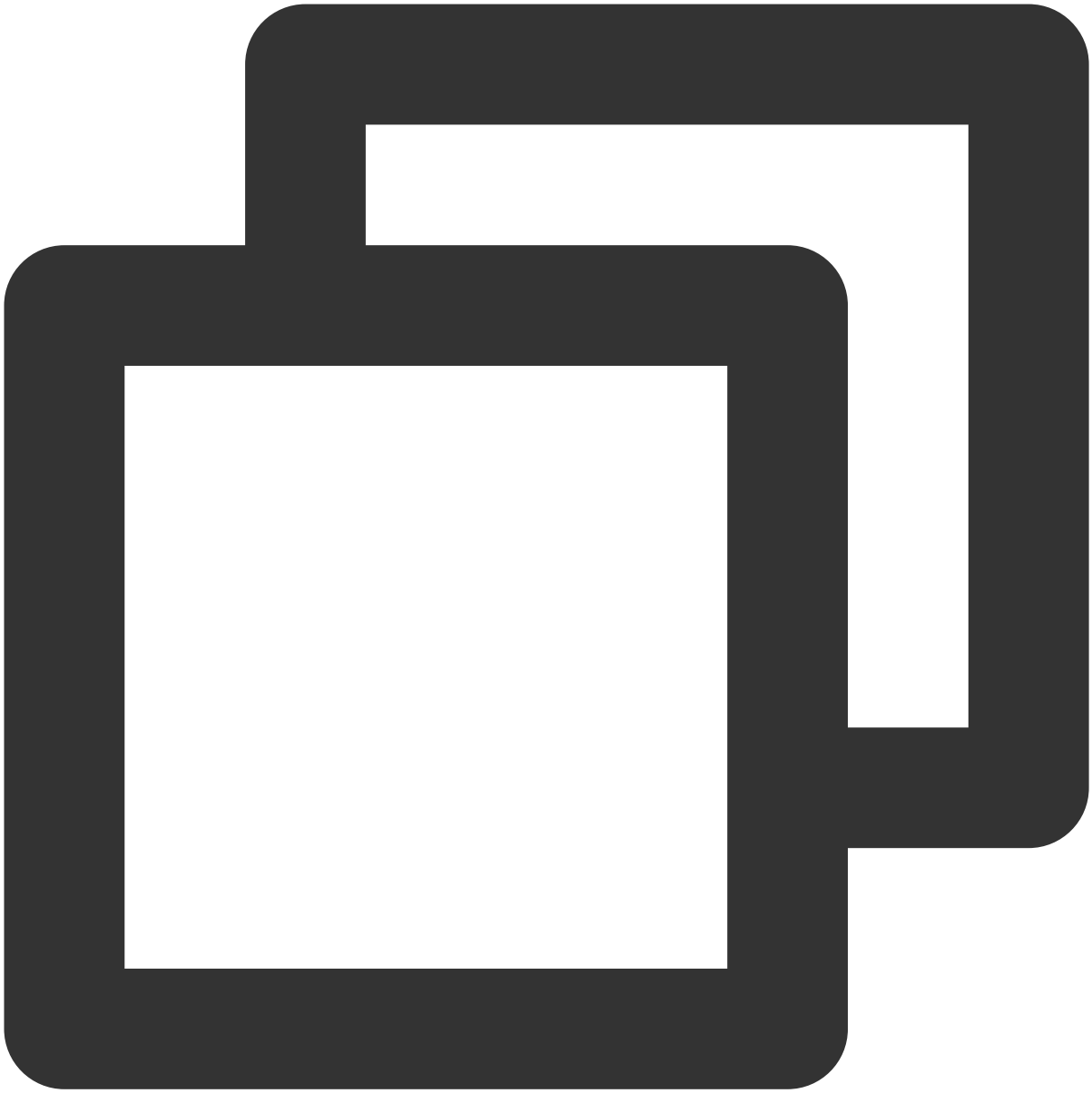

```
PUT /ai_jobs/<jobId>?cancel HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

This request has no response body.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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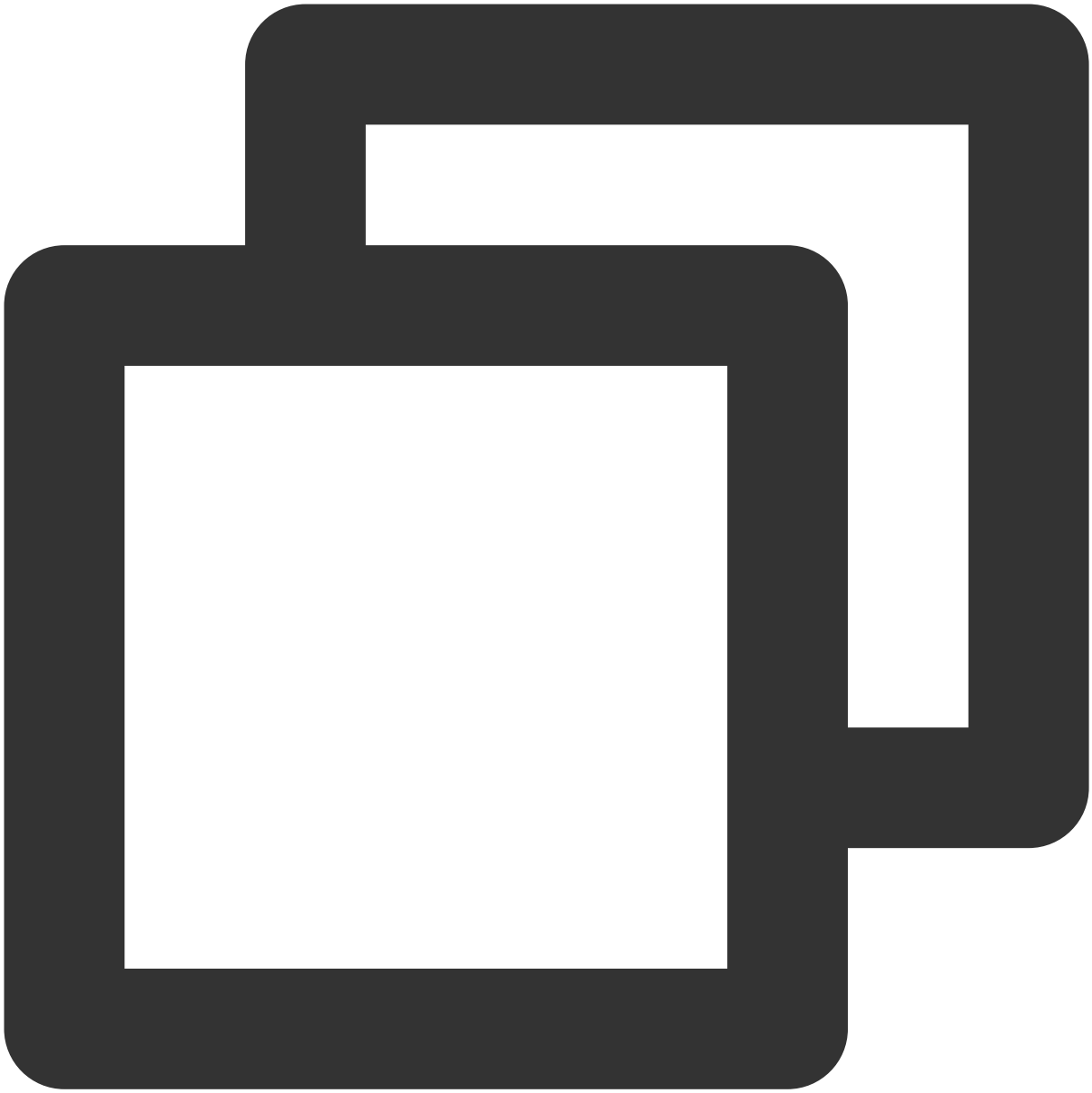

```
PUT /ai_jobs/a-xxx-xxx-xxx-xxxx?cancel HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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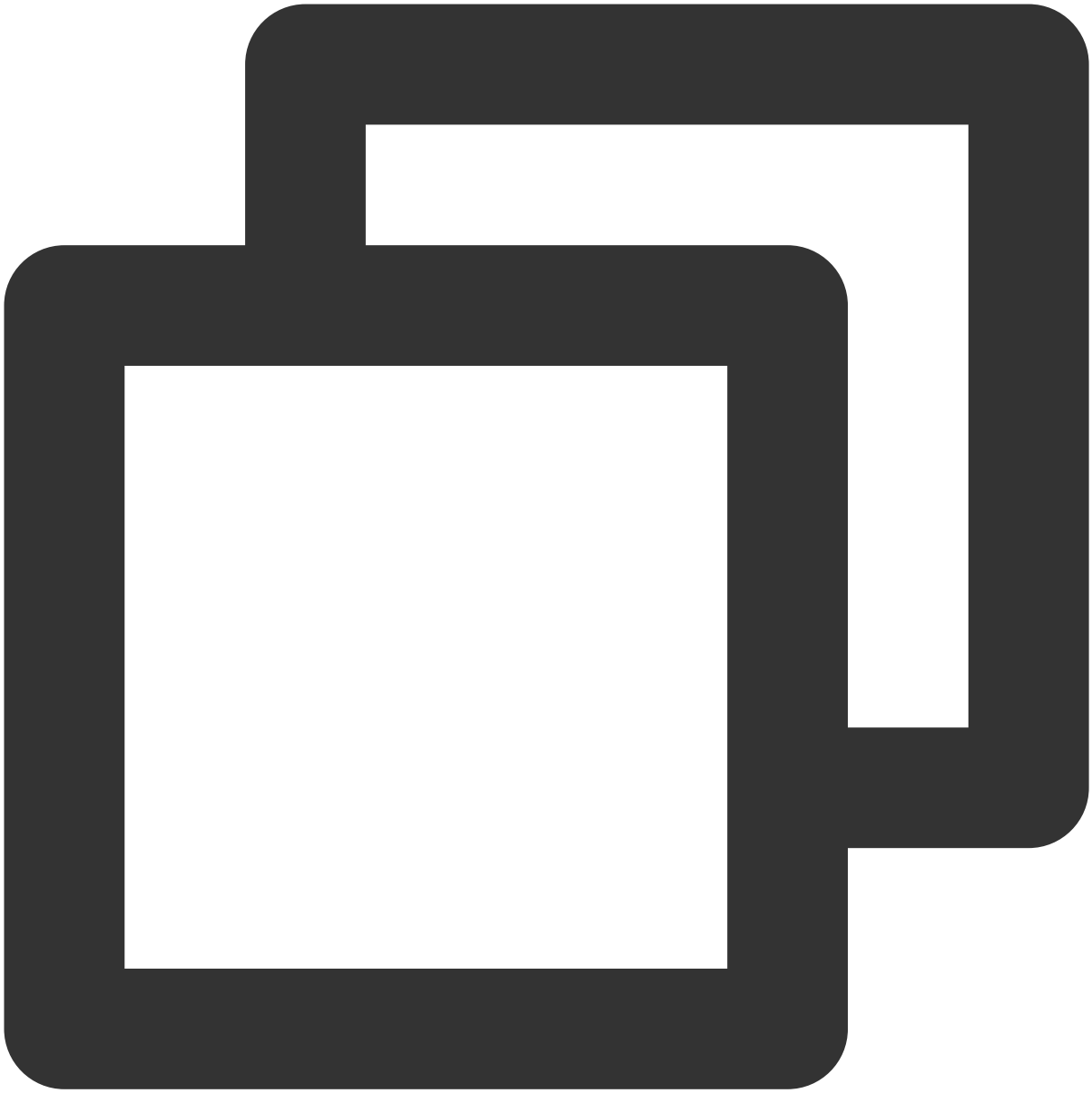

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=
```

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Querying Content Recognition Job

Querying Content Recognition Job

Last updated：2024-06-12 15:47:04

Feature Description

This API (`DescribeAIJob`) is used to query a specified job.

Request

Sample request

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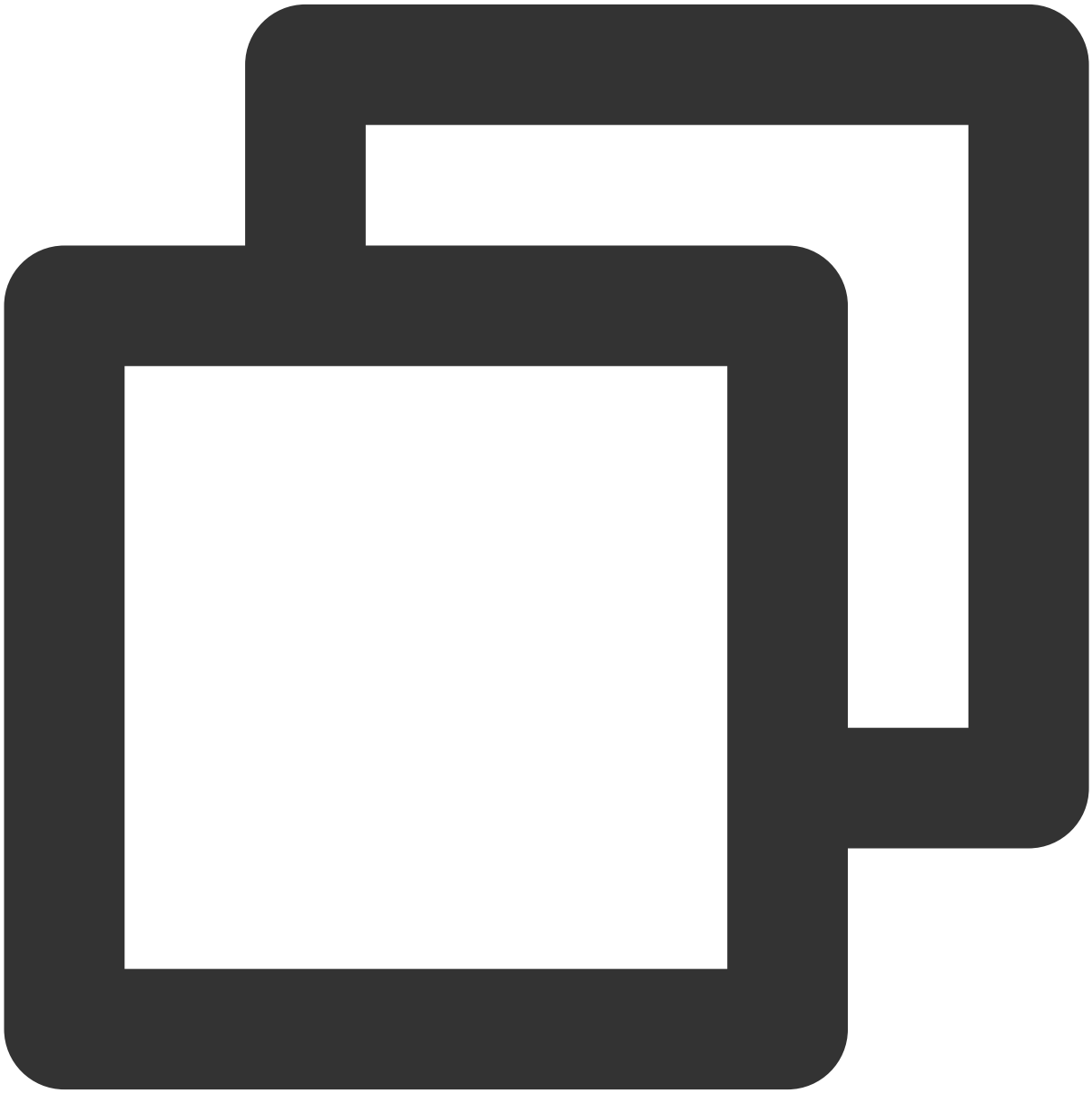

```
GET /ai_jobs/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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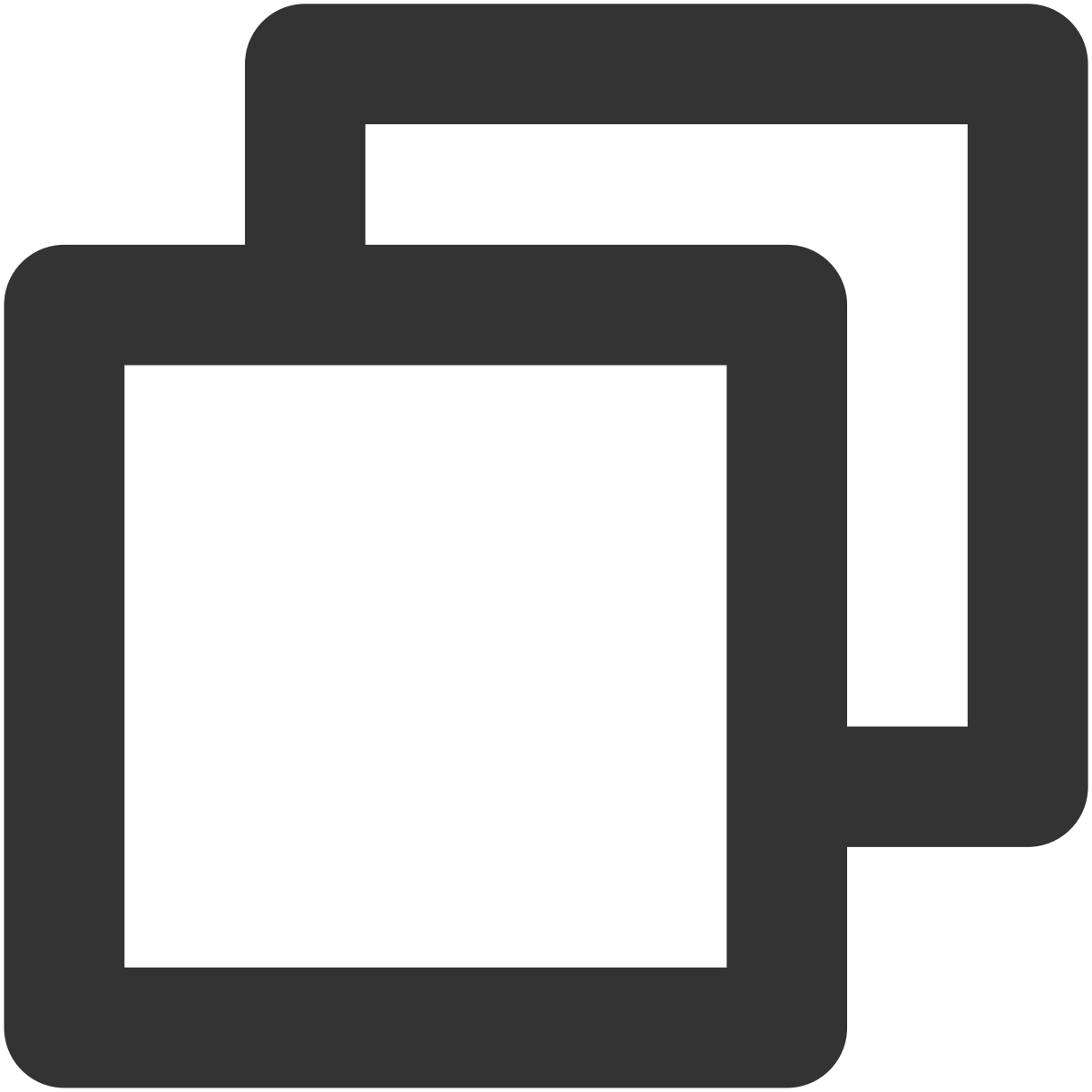

```
<Response>
    <JobsDetail>
    </JobsDetail>
    <NonExistJobIds></NonExistJobIds>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container
NonExistJobIds	Response	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String

The content of `JobsDetail` varies by job type. For more information, see the following documents:
Submitting Translation Job

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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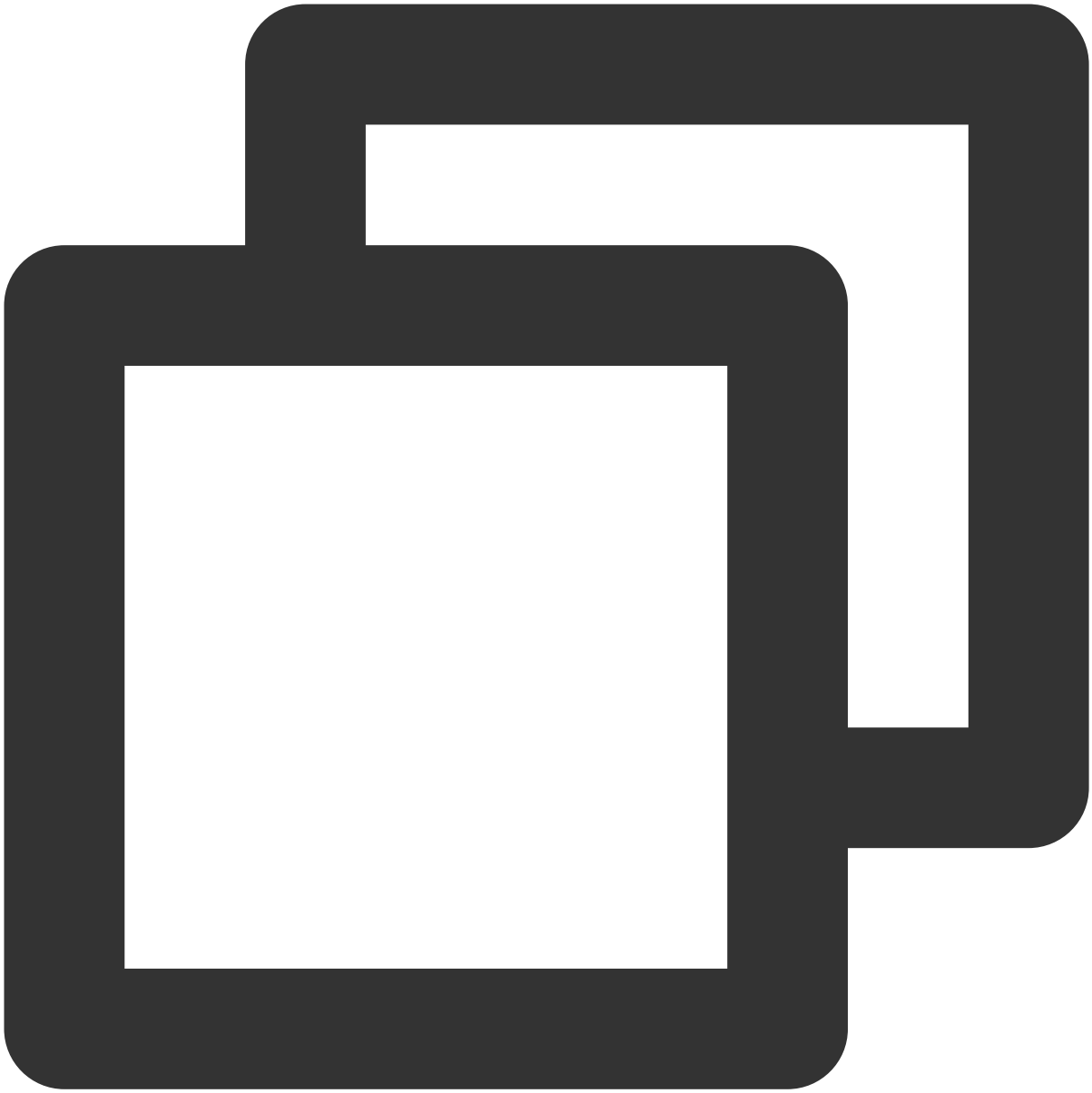

```
GET /ai_jobs/a8d121820f5e411ec926ef19d53ba9c6f HTTP/1.1
Accept: */*
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-123456789.ci.ap-beijing.myqcloud.com
```

Response

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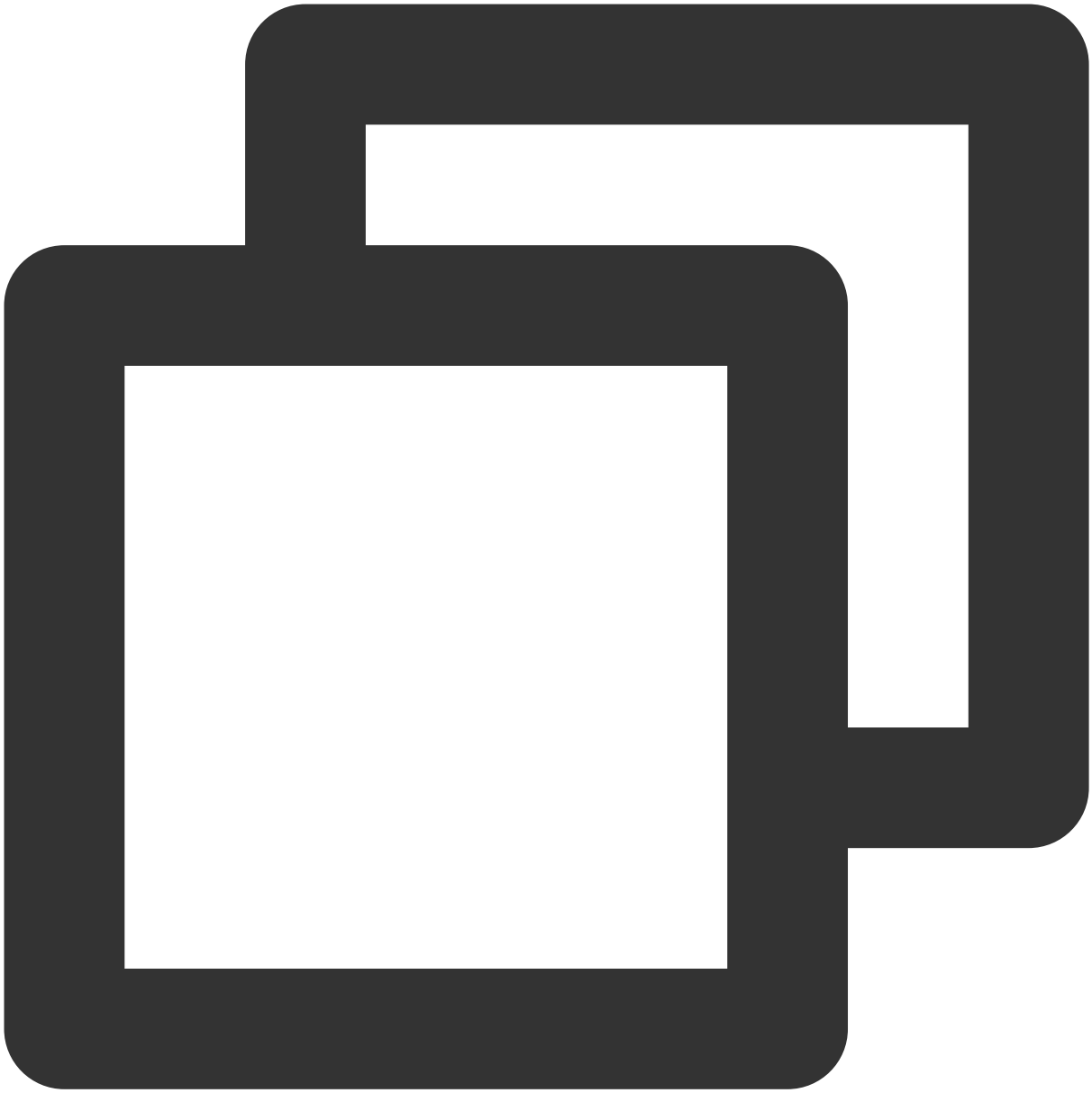

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Message></Message>
        <JobId>a8d121820f5e411ec926ef19d53ba9c6f</JobId>
        <State>Running</State>
        <CreationTime>2022-07-07T12:12:12+0800</CreationTime>
        <StartTime>2022-07-07T12:12:13+0800</StartTime>
        <EndTime>-</EndTime>
        <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
        <Tag>Translation<Tag>
        <Input>
            <Object>test.txt</Object>
            <Lang>zh</Lang>
            <Type>txt</Type>
        </Input>
        <Operation>
            <Translation>
                <Lang>en</Lang>
                <Type>txt</Type>
            </Translation>
            <Output>
                <Region>ap-beijing</Region>
                <Bucket>test-123456789</Bucket>
                <Object>test-result.txt</Object>
            </Output>
            <UserData>This is my data.</UserData>
        </Operation>
    </JobsDetail>
</Response>
```

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Content Recognition Job Callback
Translation Job Callback

Last updated：2024-06-12 15:47:04

Feature Description

The API (`DescribeMediaJobs`) is used to pull jobs that meet specified conditions.

Request

Sample request

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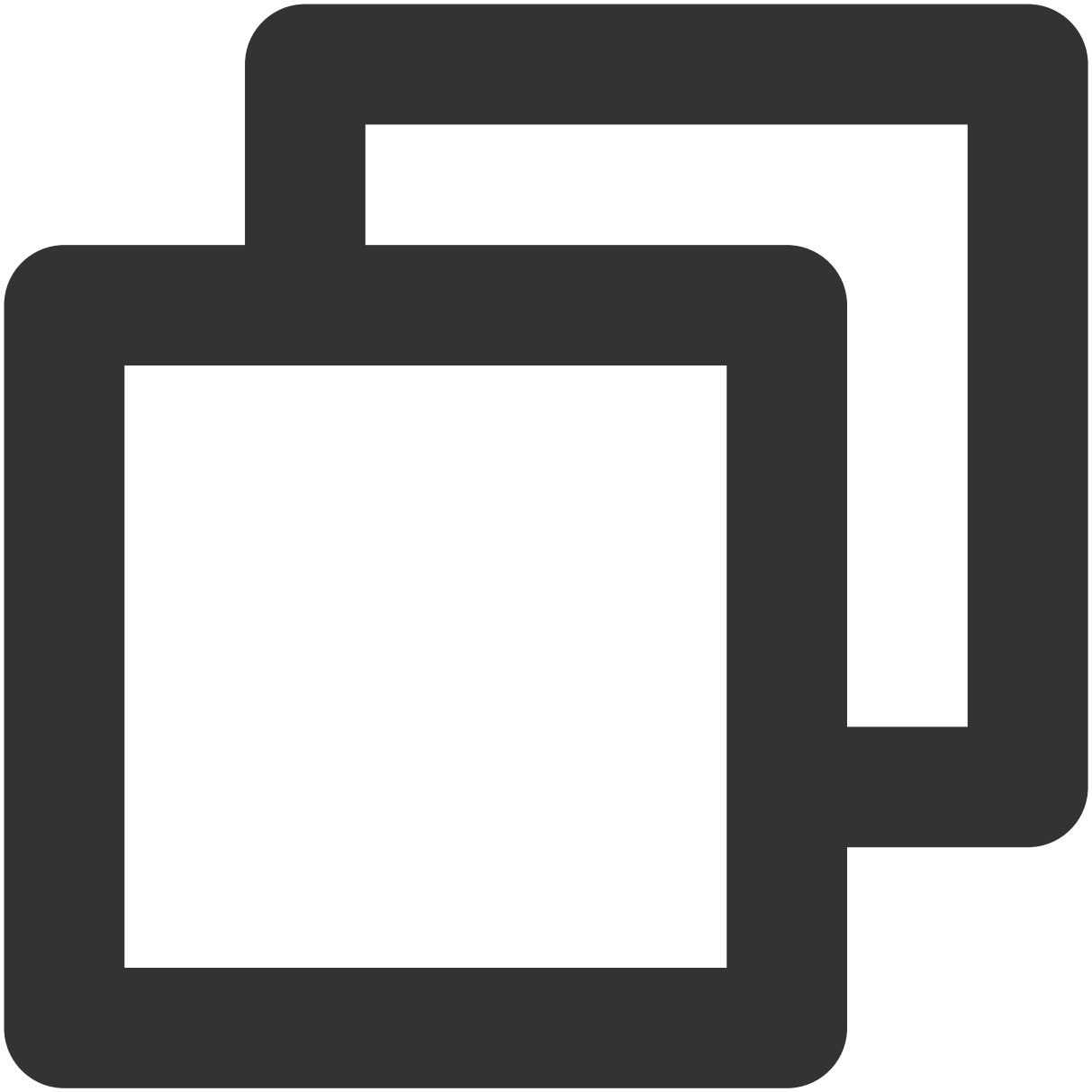

```
GET /ai_jobs?size=&states=&queueId=&startCreationTime=&endCreationTime= HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Request parameters

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
queueId	None	ID of the queue from which jobs are pulled	String	Yes
tag	None	Job type: Translation	String	Yes
orderByTime	None	Valid values: `Desc` , `Asc` . Default value: `Desc` .	String	No
nextToken	None	Context token for pagination	String	No
size	None	Maximum number of jobs that can be pulled. The default value is 10. The maximum value is 100.	Integer	No
states	None	Status of the jobs to pull. If you enter multiple job statuses, separate them by comma. Valid values: `All` , `Submitted` , `Running` , `Success` , `Failed` , `Pause` , `Cancel` . Default value: `All` .	String	No
startCreationTime	None	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z` , such as `2001-01-01T00:00:00+0800`	String	No
endCreationTime	None	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z` , such as `2001-01-01T23:59:59+0800`	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

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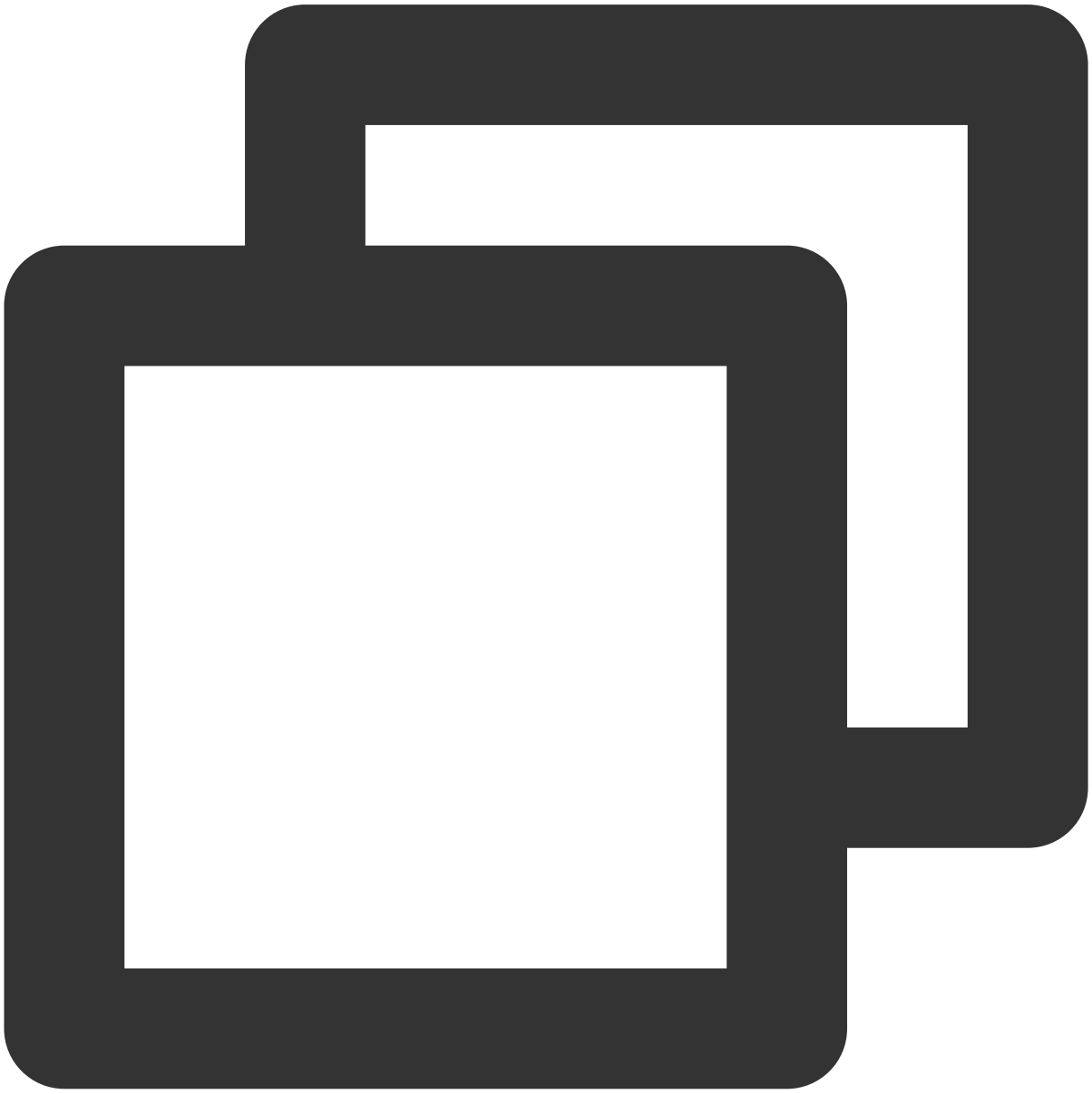
Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
  <JobsDetail>
  </JobsDetail>
  <NextToken></NextToken>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details. Same as `Response.JobsDetail` in `CreateMediaJobs`.	Container
NextToken	Response	Context token for pagination	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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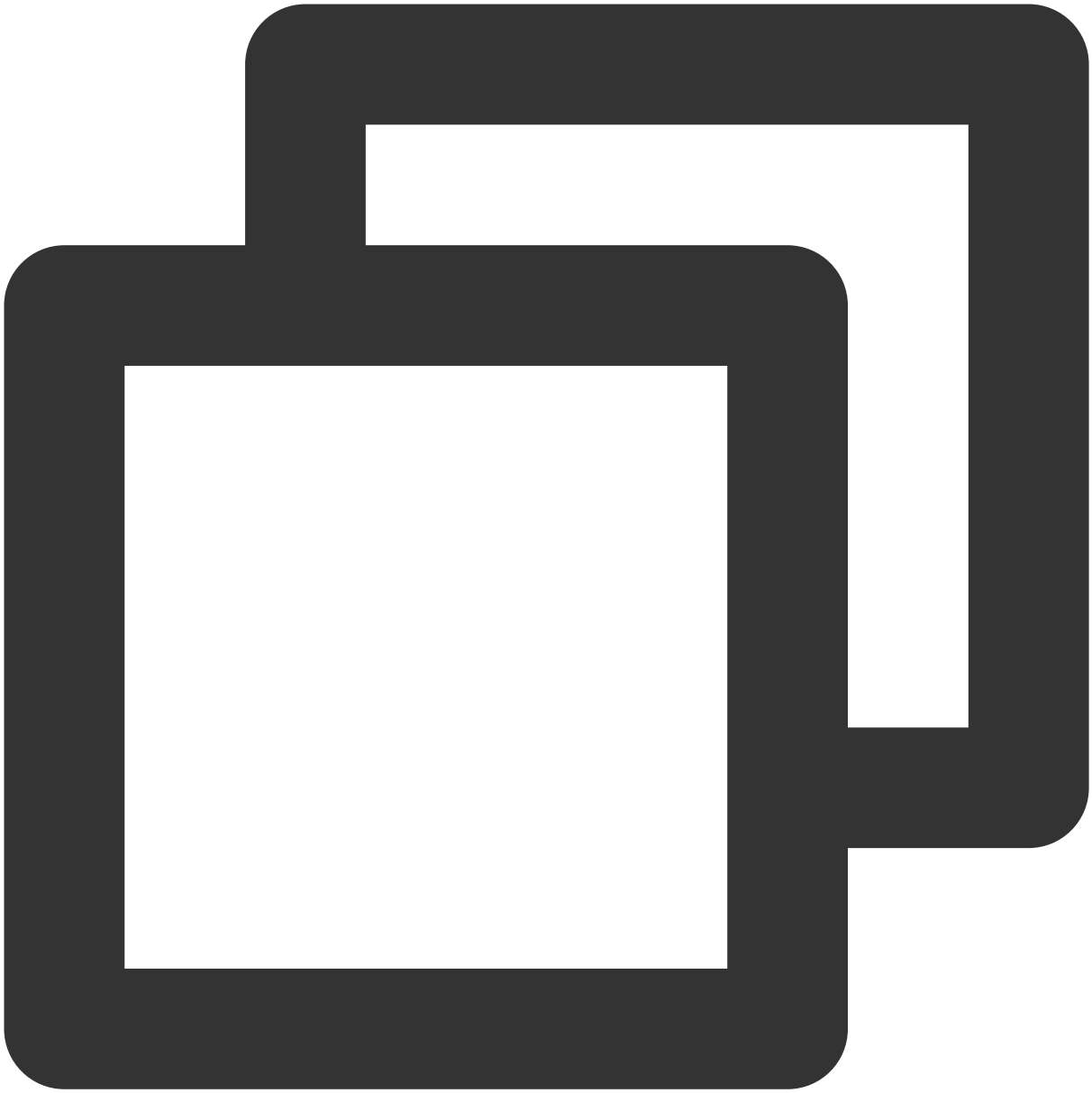

```
GET /ai_jobs?queueId=aaaaaaaaaaa&tag=SDRtoHDR HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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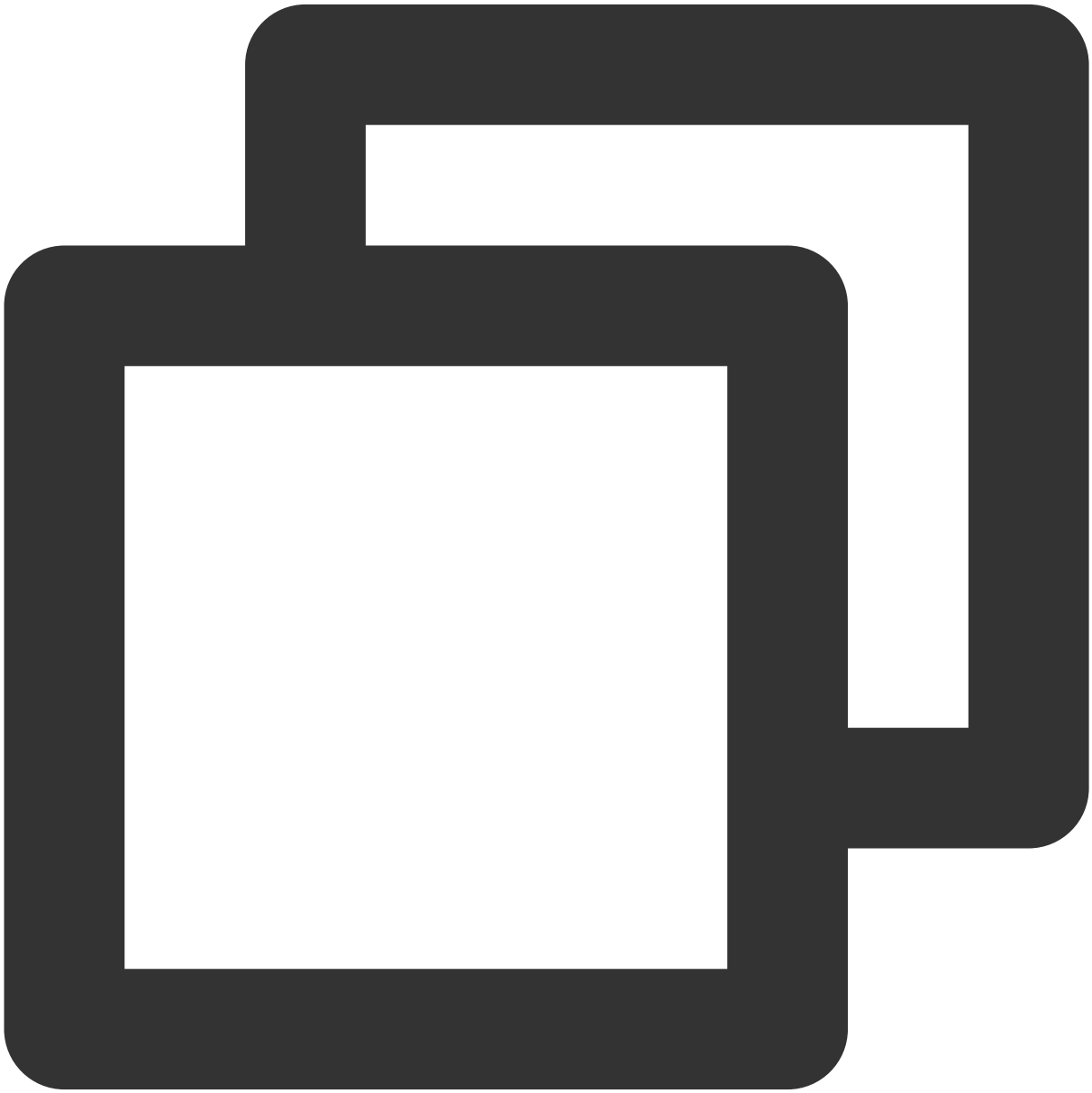

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
  <JobsDetail>
    <Code>Success</Code>
```

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```
    <Message>Success</Message>
    <JobId>aabcxxxxfeipplsdfwe</JobId>
    <State>Submitted</State>
    <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    <StartTime></StartTime>
    <EndTime></EndTime>
    <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
    <Tag>Translation<Tag>
    <Input>
      <Object>test.txt</Object>
      <Lang>zh</Lang>
      <Type>txt</Type>
    </Input>
    <Operation>
      <Translation>
        <Lang>en</Lang>
        <Type>txt</Type>
      </Translation>
      <Output>
        <Region>ap-beijing</Region>
        <Bucket>examplebucket-1250000000</Bucket>
        <Object>test-result.txt</Object>
      </Output>
    </Operation>
  </JobsDetail>
  <JobsDetail>
    <Code>Success</Code>
    <Message>Success</Message>
    <JobId>aabcxxxxfeipplsdfwe</JobId>
    <State>Submitted</State>
    <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    <StartTime></StartTime>
    <EndTime></EndTime>
    <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
    <Tag>Translation<Tag>
    <Input>
      <Object>test1.txt</Object>
      <Lang>en</Lang>
      <Type>txt</Type>
    </Input>
    <Operation>
      <Translation>
        <Lang>zh</Lang>
        <Type>txt</Type>
      </Translation>
      <Output>
        <Region>ap-beijing</Region>
```

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```
        <Bucket>examplebucket-1250000000</Bucket>
        <Object>test-result1.txt</Object>
      </Output>
    </Operation>
  </JobsDetail>
</Response>
```

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Word Segmentation Job Callback

Last updated：2024-06-12 15:47:04

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request with the body containing notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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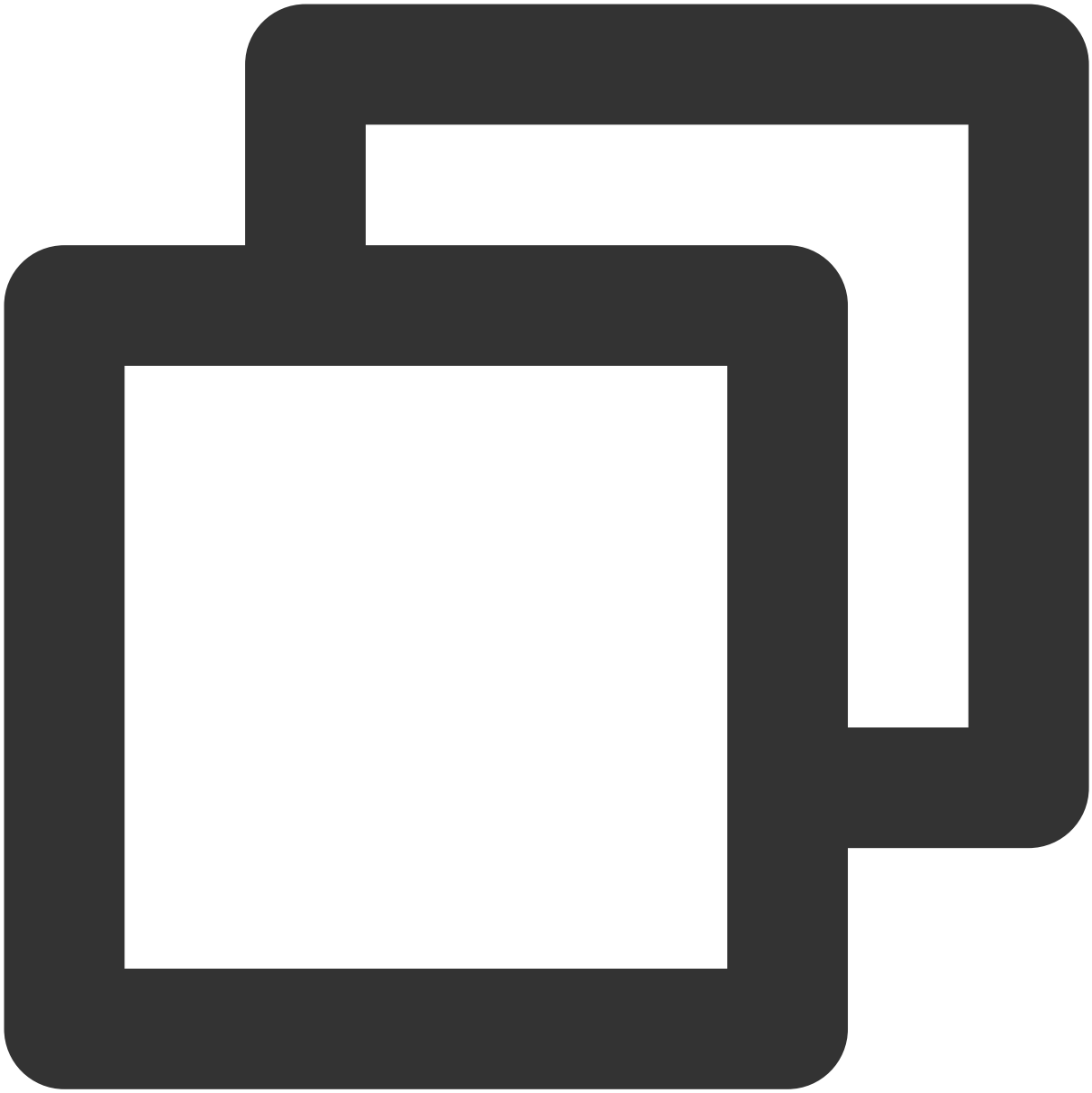

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-25T16:35:39+0800</CreationTime>
        <EndTime>2022-07-25T16:35:43+0800</EndTime>
        <Input>
            <Object>text.txt</Object>
            <BucketId>test-123456789</BucketId>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>ac34be3aa0bf411ed9ce39d7cc972e427</JobId>
        <Message>Success</Message>
        <Operation>
            <JobLevel>0</JobLevel>
            <WordsGeneralize>
                <NerMethod>DL</NerMethod>
                <SegMethod>MIX</SegMethod>
            </WordsGeneralize>
            <WordsGeneralizeResult>
                <WordsGeneralizeLable>
                    <Category>Mobility</Category>
                    <Word>Taxi</Word>
                </WordsGeneralizeLable>
                <WordsGeneralizeToken>
                    <Length>2</Length>
                    <Offset>0</Offset>
                    <Pos>t</Pos>
                    <Word>Today</Word>
                </WordsGeneralizeToken>
                <WordsGeneralizeToken>
                    <Length>2</Length>
                    <Offset>2</Offset>
                    <Pos>v</Pos>
                    <Word>Taxi</Word>
                </WordsGeneralizeToken>
                <WordsGeneralizeToken>
                    <Length>1</Length>
                    <Offset>4</Offset>
                    <Pos>v</Pos>
                    <Word>Cost</Word>
                </WordsGeneralizeToken>
                <WordsGeneralizeToken>
                    <Length>2</Length>
                    <Offset>5</Offset>
                    <Pos>nx</Pos>
                    <Word>60</Word>
                </WordsGeneralizeToken>
                <WordsGeneralizeToken>
                    <Length>1</Length>
                    <Offset>7</Offset>
                    <Pos>q</Pos>
                    <Word>CNY</Word>
                </WordsGeneralizeToken>
            </WordsGeneralizeResult>
        </Operation>
    </JobsDetail>
</Response>
```

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The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
EventName	Response	Fixed value: `TaskFinish`.	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Same as Response.JobsDetail in the word segmentation job submitting API.

If the job is triggered by a workflow, `Response.JobsDetail.Input` will also contain a `CosHeaders` node of the container array type.

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

If the job is triggered by a workflow, `Response.JobsDetail` will also contain a `Workflow` node of the container type.

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

Samples

Sample 1: Job callback triggered by a job API

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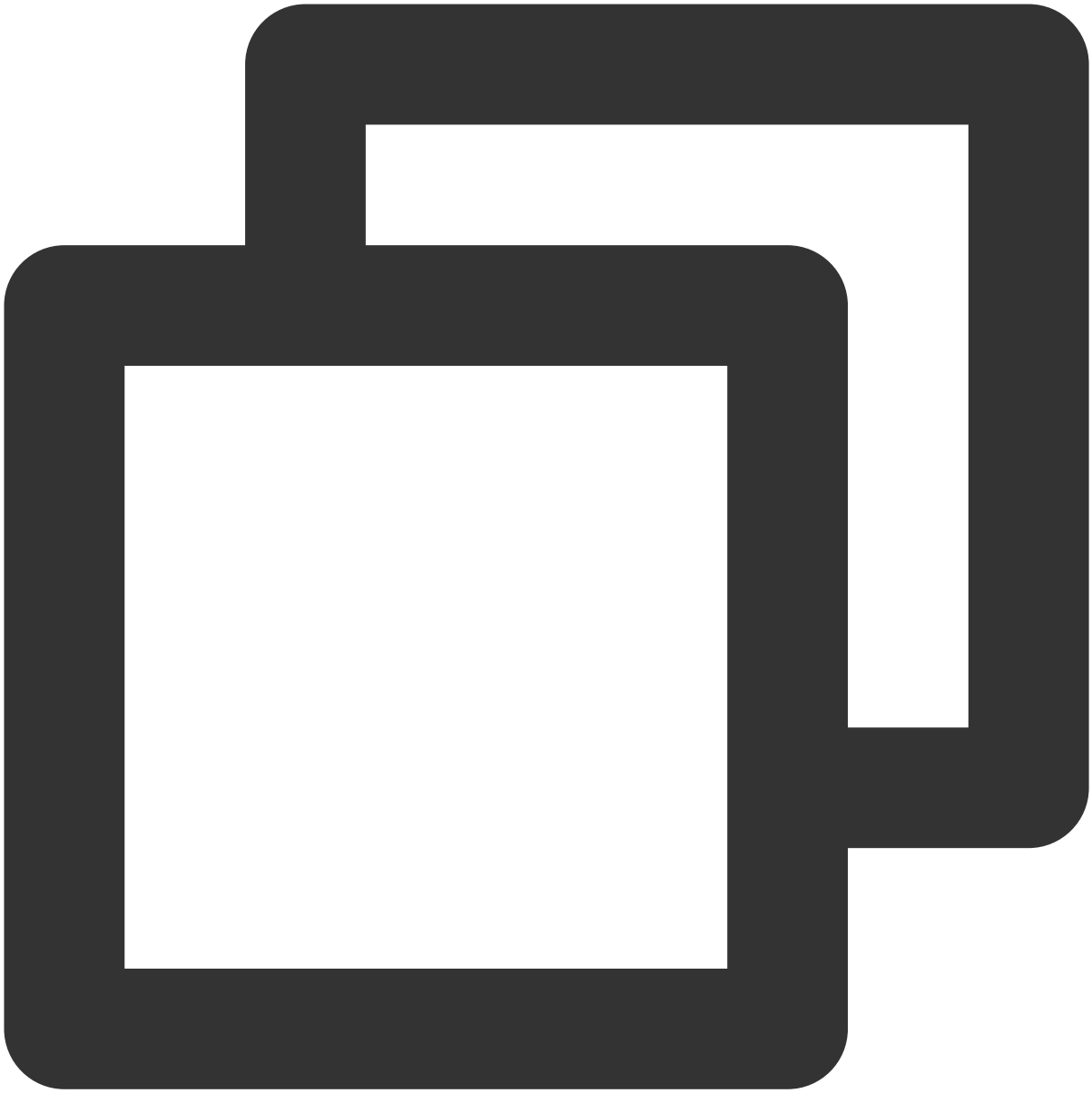

```
<Response>
    <EventName>TaskFinish</EventName>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2022-07-25T16:35:39+0800</CreationTime>
        <EndTime>2022-07-25T16:35:43+0800</EndTime>
        <Input>
            <Object>text.txt</Object>
            <BucketId>test-123456789</BucketId>
            <Region>ap-chongqing</Region>
        </Input>
```

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```
        <JobId>ac34be3aa0bf411ed9ce39d7cc972e427</JobId>
        <Message>Success</Message>
        <Operation>
            <JobLevel>0</JobLevel>
            <WordsGeneralize>
                <NerMethod>DL</NerMethod>
                <SegMethod>MIX</SegMethod>
            </WordsGeneralize>
            <WordsGeneralizeResult>
                <WordsGeneralizeLable>
                    <Category>Mobility</Category>
                    <Word>Taxi</Word>
                </WordsGeneralizeLable>
                <WordsGeneralizeToken>
                    <Length>2</Length>
                    <Offset>0</Offset>
                    <Pos>t</Pos>
                    <Word>Today</Word>
                </WordsGeneralizeToken>
                <WordsGeneralizeToken>
                    <Length>2</Length>
                    <Offset>2</Offset>
                    <Pos>v</Pos>
                    <Word>Taxi</Word>
                </WordsGeneralizeToken>
                <WordsGeneralizeToken>
                    <Length>1</Length>
                    <Offset>4</Offset>
                    <Pos>v</Pos>
                    <Word>Cost</Word>
                </WordsGeneralizeToken>
                <WordsGeneralizeToken>
                    <Length>2</Length>
                    <Offset>5</Offset>
                    <Pos>nx</Pos>
                    <Word>60</Word>
                </WordsGeneralizeToken>
                <WordsGeneralizeToken>
                    <Length>1</Length>
                    <Offset>7</Offset>
                    <Pos>q</Pos>
                    <Word>CNY</Word>
                </WordsGeneralizeToken>
            </WordsGeneralizeResult>
        </Operation>
    </JobsDetail>
</Response>
```

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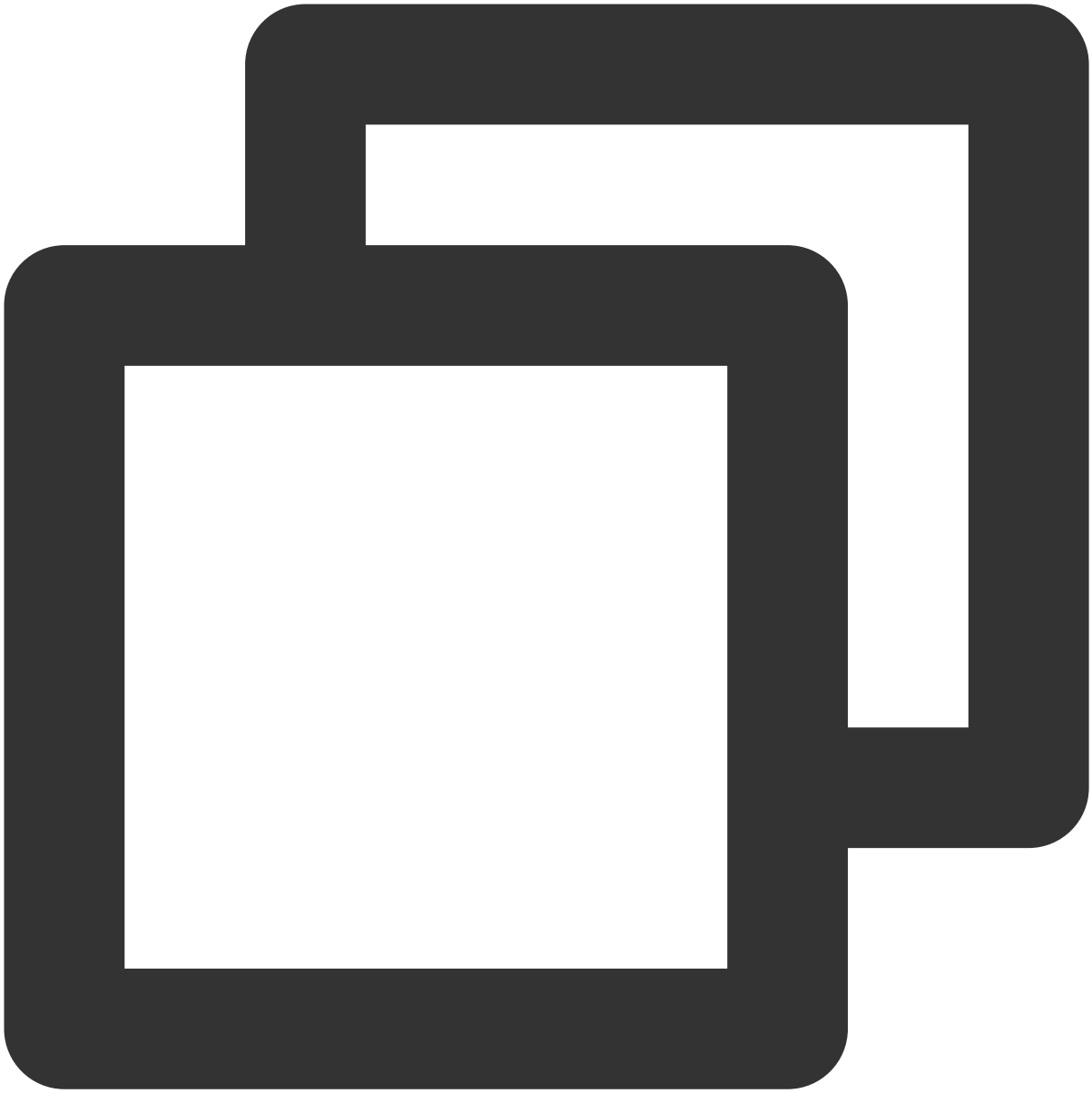
Sample 2: Job callback in JSON format triggered by a job API



```
{
    "Response": {
        "EventName": "TaskFinish",
        "JobsDetail": {
            "Code": "Success",
            "CreationTime": "2022-07-25T16:35:39+0800",
            "EndTime": "2022-07-25T16:35:43+0800",
            "Input": {
```

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```
            "Object": "text.txt",
            "BucketId": "test-123456789",
            "Region": "ap-chongqing"
        },
        "JobId": "ac34be3aa0bf411ed9ce39d7cc972e427",
        "Message": "Success",
        "Operation": {
            "JobLevel": "0",
            "WordsGeneralize": {
                "NerMethod": "DL",
                "SegMethod": "MIX"
            },
            "WordsGeneralizeResult": {
                "WordsGeneralizeLable": {
                    "Category": "Mobility",
                    "Word": "Taxi"
                },
                "WordsGeneralizeToken": [{
                        "Length": "2",
                        "Offset": "0",
                        "Pos": "t",
                        "Word": "Today"
                    },
                    {
                        "Length": "2",
                        "Offset": "2",
                        "Pos": "v",
                        "Word": "Taxi"
                    },
                    {
                        "Length": "1",
                        "Offset": "4",
                        "Pos": "v",
                        "Word": "Cost"
                    },
                    {
                        "Length": "2",
                        "Offset": "5",
                        "Pos": "nx",
                        "Word": "60"
                    },
                    {
                        "Length": "1",
                        "Offset": "7",
                        "Pos": "q",
                        "Word": "CNY"
                    }
```


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```
                        ]
                    }
                }
            }
        }
    }
```

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Sync Media Processing
Media Screenshot API
Getting Media File Screenshot

Last updated：2024-06-12 15:47:04

Feature Description

This API (`GetSnapshot`) is used to get a screenshot of a media file at some time point.

Instructions

This API is in sync mode. For the async mode, see Submitting Screenshot Job.

Sample Request

1. Via GET request

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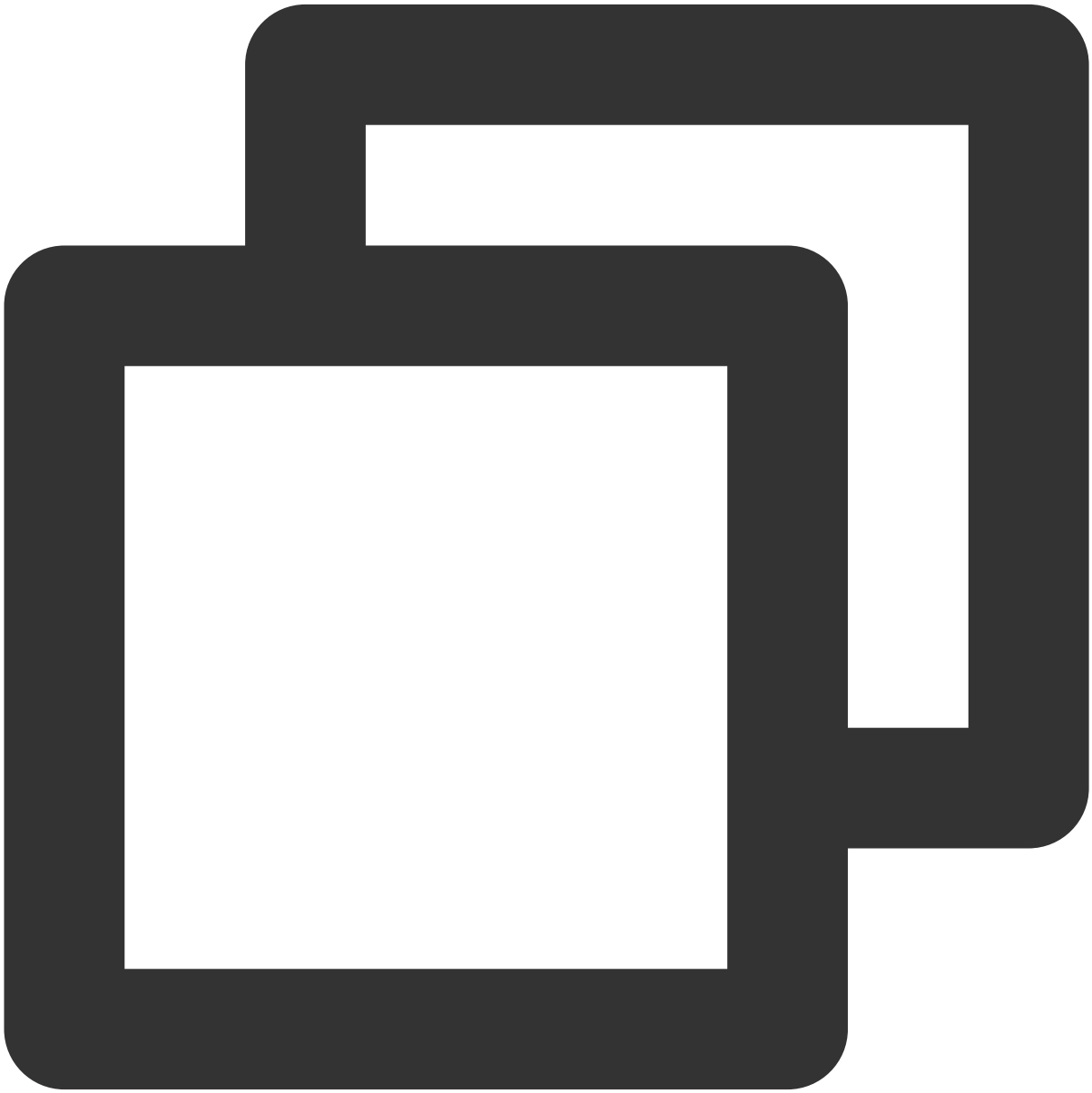

```
GET /for-test.mp4?ci-process=snapshot&time=1&format=jpg HTTP/1.1
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
```

2. Via adding parameters to URL

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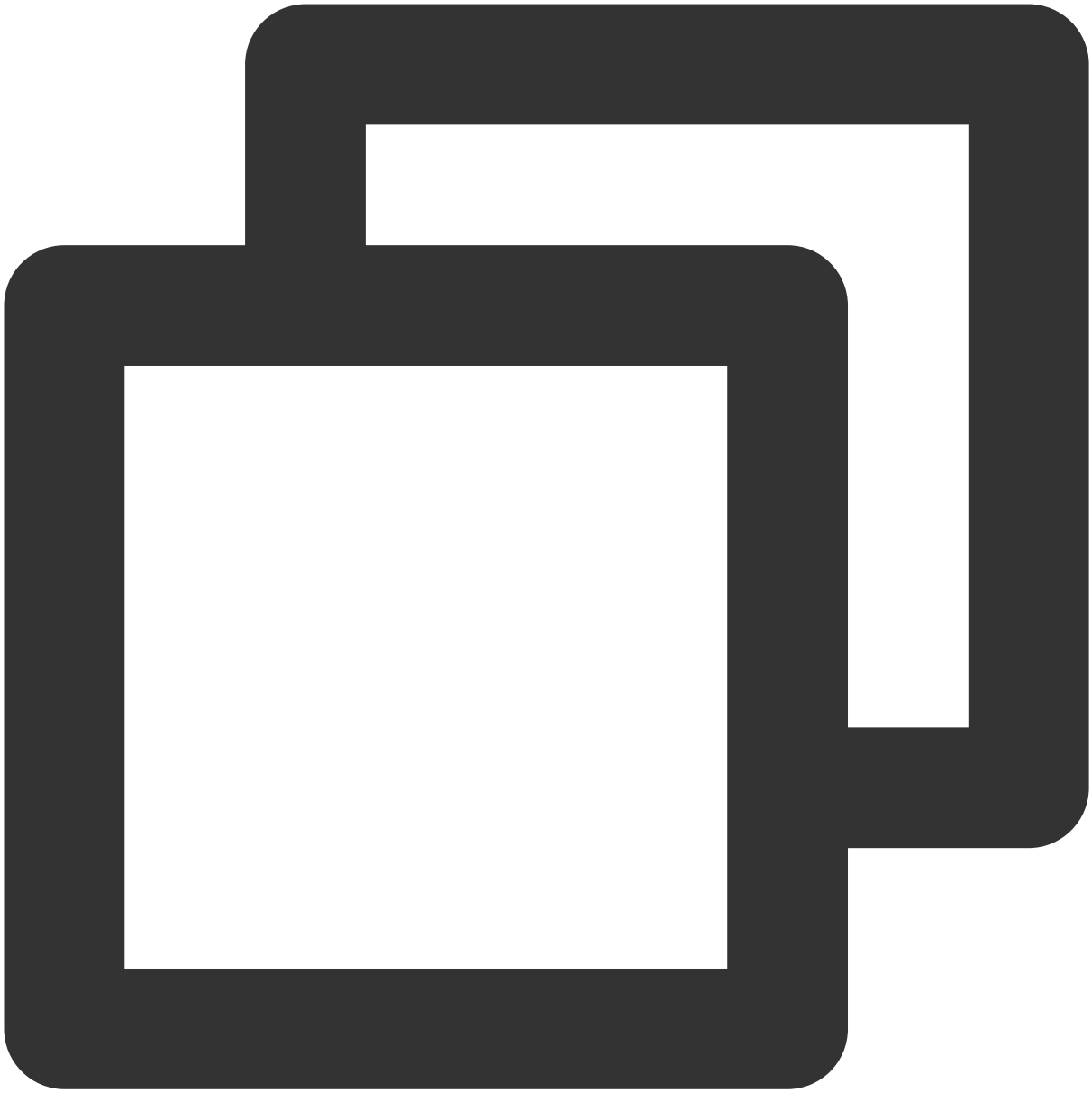

```
https://<BucketName-APPID>.cos.<Region>.myqcloud.com/for-test.mp4?ci-process=snapsh
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request parameters

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The parameters are described as follows:

Parameter	Description	Type	Required
ci-process	Operation type, which is fixed at `snapshot`.	String	Yes
time	Screenshot time point in seconds.	float	Yes
width	Screenshot width. Default value: 0	Int	No
height	Screenshot height. Default value: 0. If `width` and `height` are both `0`, the width and height of the video are used. If one of them is `0`, the other value is used to automatically adapt to the aspect ratio of the video.	Int	No
format	Screenshot format. Valid values: `jpg`, `png`. Default value: `jpg`.	String	No
rotate	Image rotation method auto: Rotate automatically according to the video rotation information. off: Do not rotate. Default value: `auto`.	String	No
mode	Frame capturing method keyframe: Capture the last keyframe before the specified time point. exactframe: Capture the frame at a specified time point. Default value: `exactframe`.	String	No

Request body

This request does not have a request body.

Response

Response headers

This response contains common response headers. For more information, see Common Response Headers.

Response body

The response body is the screenshot file content.

Error codes

There are no special error messages for this request operation. For common error messages, see Error Codes.

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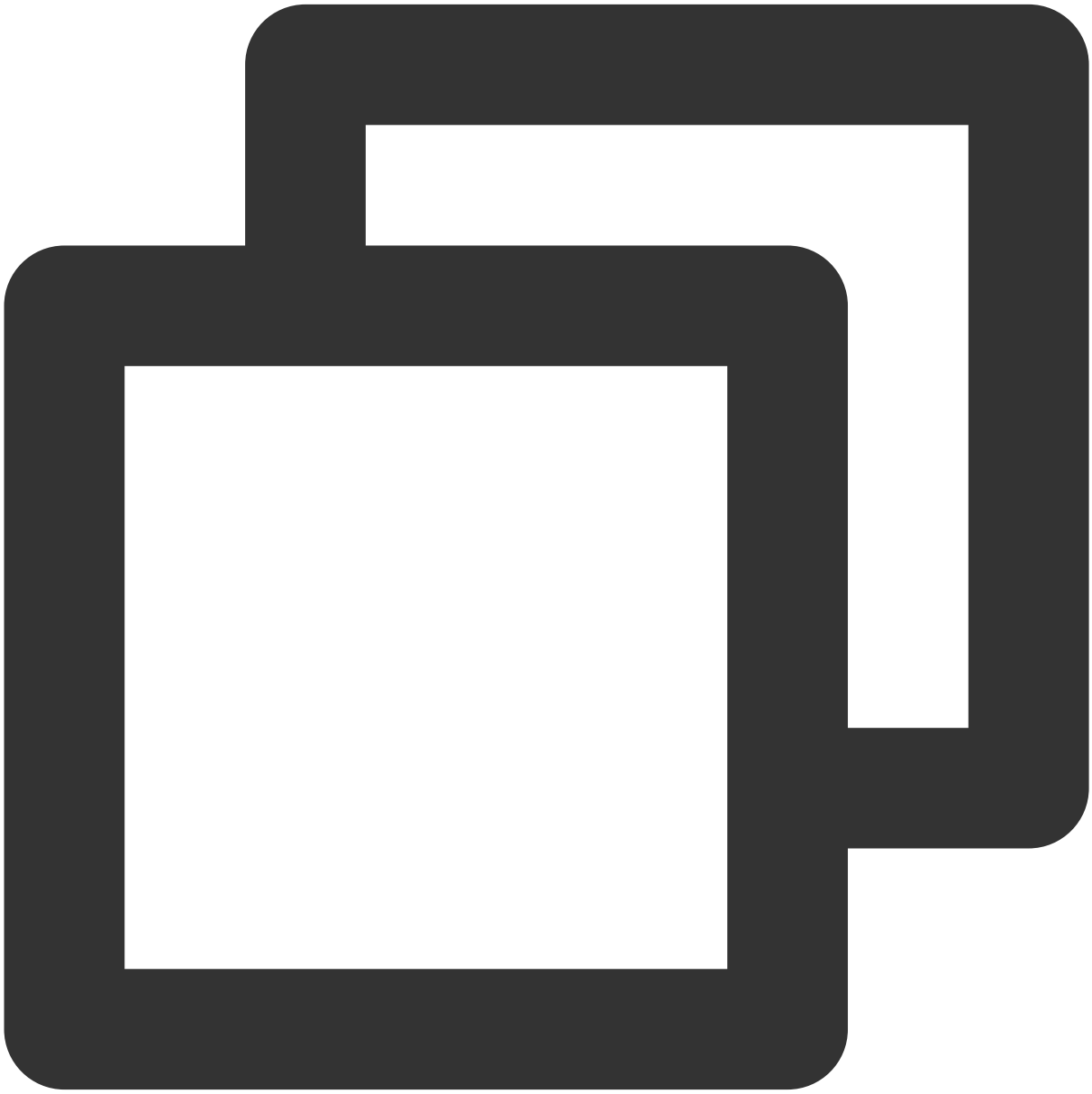
Samples

Request 1. GET request



```
GET /for-test.mp4?ci-process=snapshot&time=1.5 HTTP/1.1
Host: examplebucket-1250000000.cos.ap-beijing.myqcloud.com
Date: Fri, 10 Mar 2016 09:45:46 GMT
Authorization: q-sign-algorithm=sha1&q-ak=AKIDWtTCBYjM5OwLB9CAwA1Qb2ThTSUjfG****-si
Content-Length: 0
```

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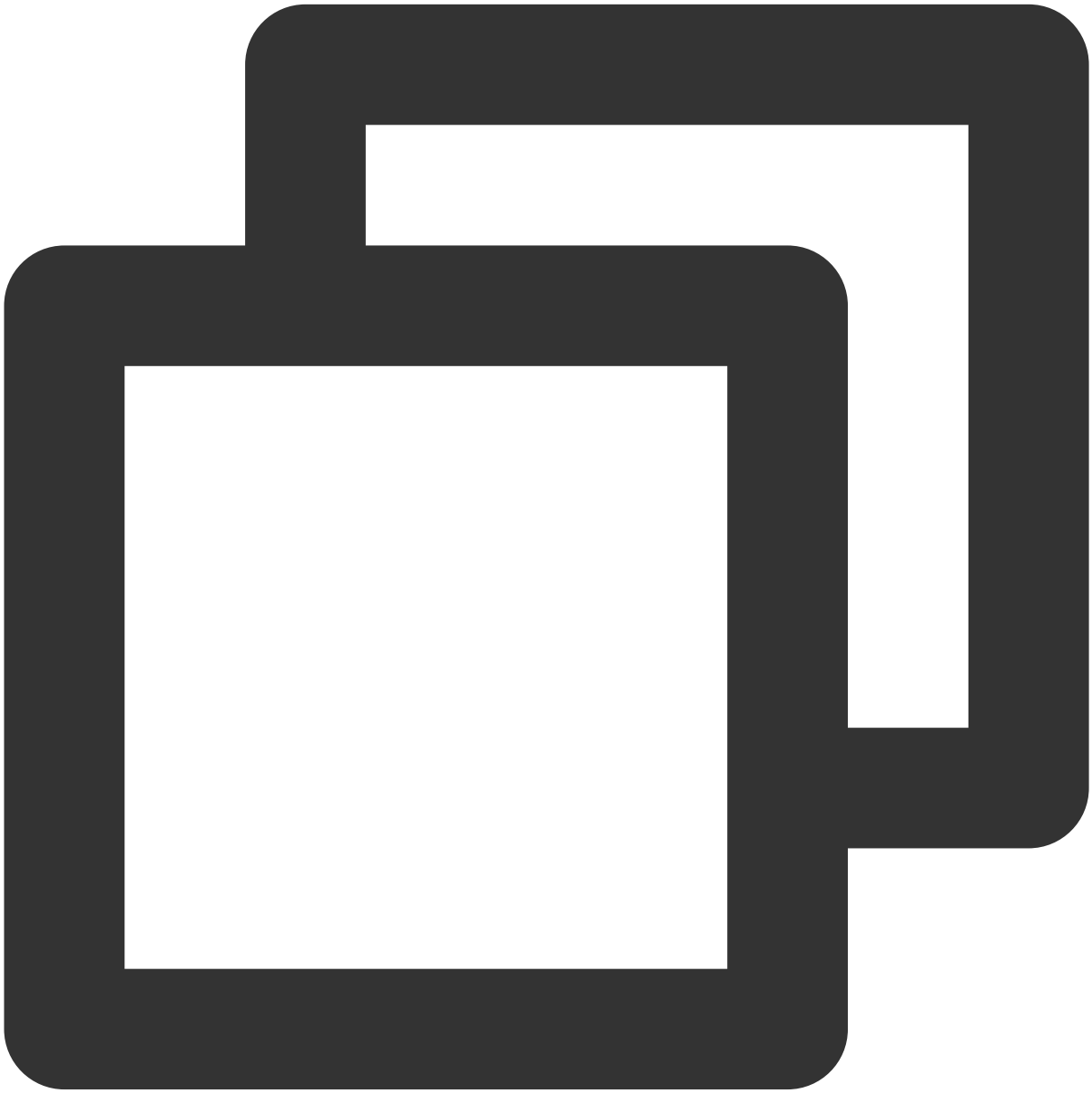
Request 2. Adding parameters to URL



```
https://examplebucket-1250000000.cos.ap-beijing.myqcloud.com/for-test.mp4?ci-proces
```

Response

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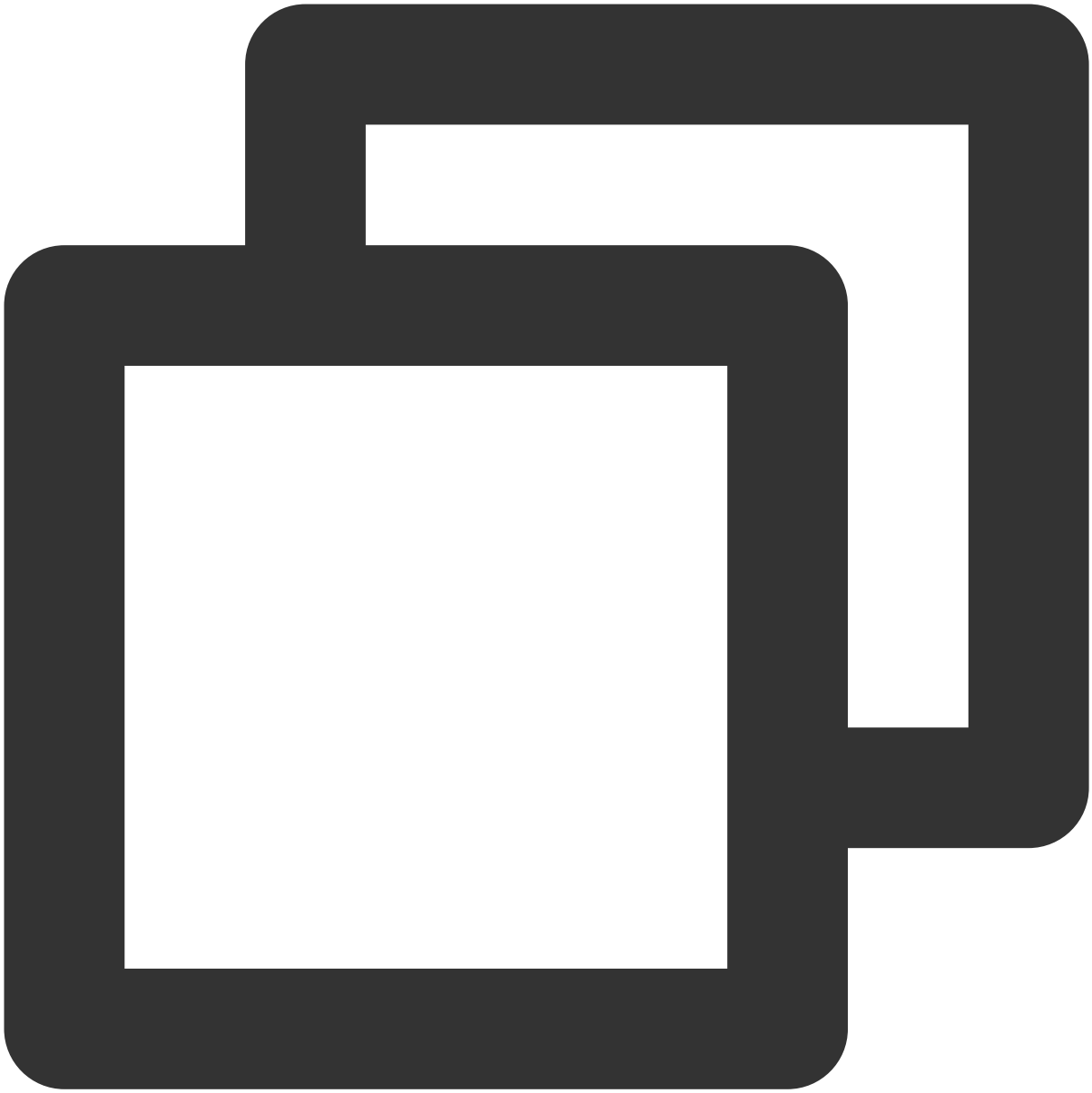

```
HTTP/1.1 200 OK
Content-Type: image/jpeg
Content-Length: 266005
Connection: keep-alive
Date: Fri, 10 Mar 2016 09:45:46 GMT
Server: tencent-cos
x-cos-request-id: NTg3NzRiMjVfYmRjMzVfMTViMl82ZGZmNw==



<Image content>
```

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Template APIs
Media Processing
Creating Media Processing Template
Creating Animated Image Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a video-to-animated image conversion template.

Request

Sample request

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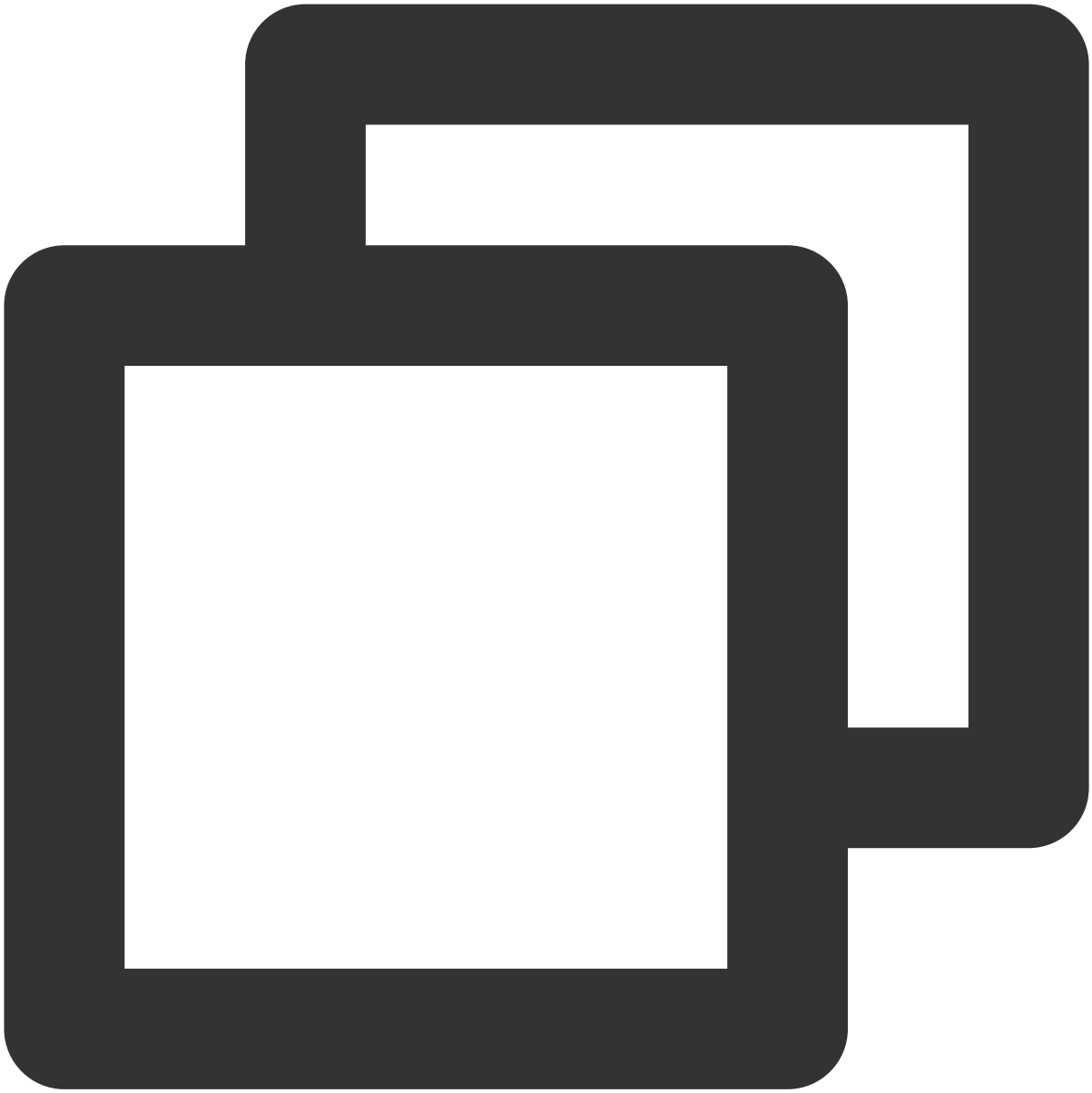

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

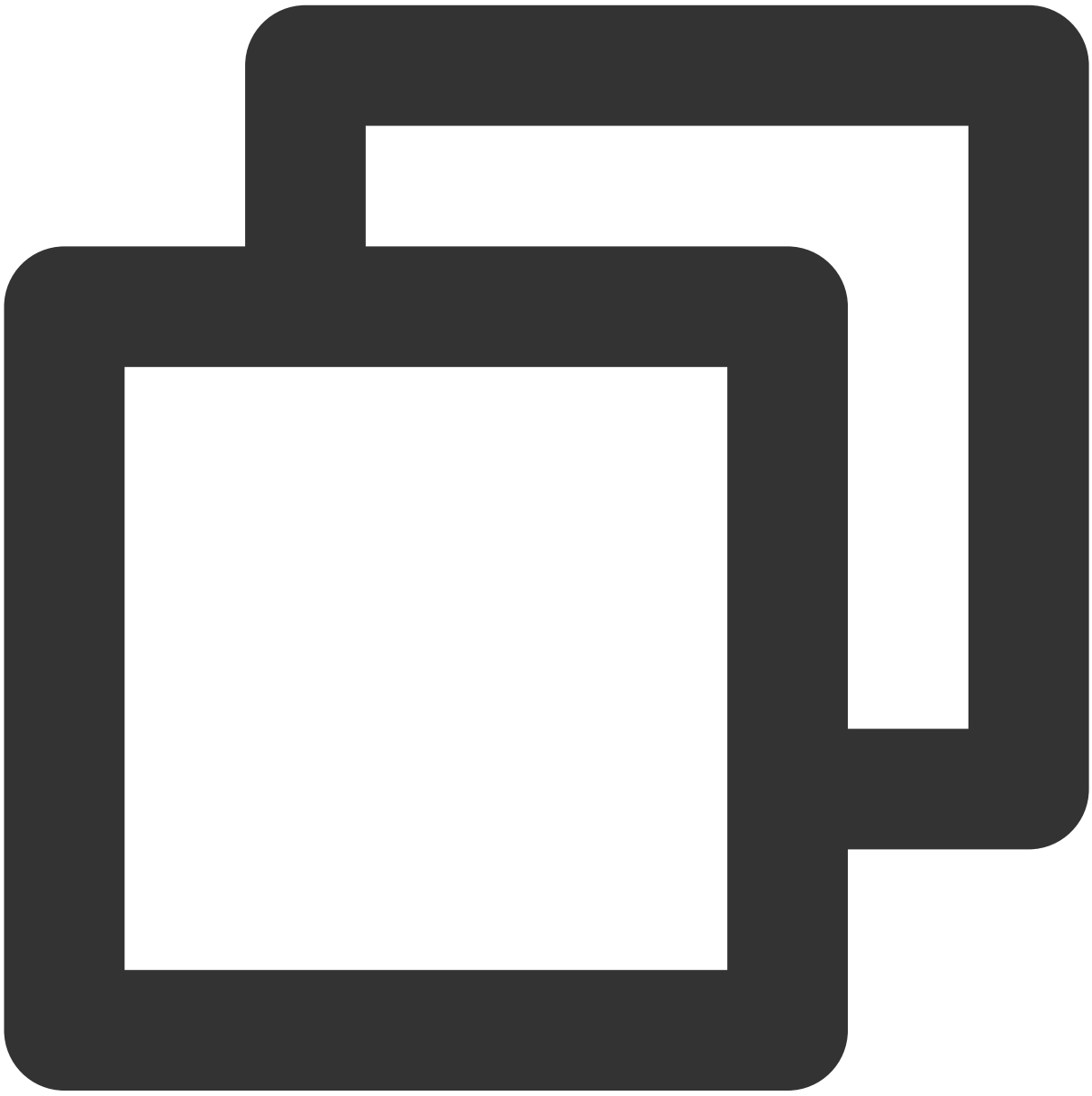
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Animation</Tag>
    <Name>TemplateName</Name>
    <Container>
       <Format>gif</Format>
    </Container>
    <Video>
       <Codec>gif</Codec>
       <Width>1280</Width>
       <Height></Height>
       <Fps>15</Fps>
       <AnimateOnlyKeepKeyFrame>true</AnimateOnlyKeepKeyFrame>
    </Video>
    <TimeInterval>
       <Start>0</Start>
       <Duration>60</Duration>
    </TimeInterval>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Template tag: Animation	String	Yes
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes
Container	Request	Container format	Container	Yes
Video	Request	Video information	Container	No
TimeInterval	Request	Time interval	Container	No

`Container`

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has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Format	Request.Container	Container format. Valid values: `gif`, `hgif` (higher-definition GIF), `webp`	String	Yes

`Video`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value
Codec	Request.Video	Codec format	String	Yes	None
Width	Request.Video	Width	String	No	Original video width
Height	Request.Video	Height	String	No	Original video height
Fps	Request.Video	Frame rate	String	No	Original video frame rate
AnimateOnlyKeepKeyFrame	Request.Video	Keeps only key frames for animated images. If `AnimateOnlyKeepKeyFrame` is set to `true`, `AnimateTimeIntervalOfFrame` and `AnimateFramesPerSecond`	String	No	false

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		don't need to be set. If `AnimateOnlyKeepKeyFrame` is set to `false`, either `AnimateTimeIntervalOfFrame` or `AnimateFramesPerSecond` must be set.			
AnimateTimeIntervalOfFrame	Request.Video	Frame sampling interval for animated images	String	No	None
AnimateFramesPerSecond	Request.Video	Number of frames sampled per second for animated images	String	No	None
Quality	Request.Video	Relative quality	String	No	None

`TimeInterval` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Start	Request.TimeInterval	Start time	String	No	0	Value range: [0, video duration] Unit: Second The `float` format is supported,

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						accurate to the millisecond.
Duration	Request.TimeInterval	Duration	String	No	Video duration	Value range: [0, video duration] Unit: Second The `float` format is supported, accurate to the millisecond.

Response

Response headers

This response contains common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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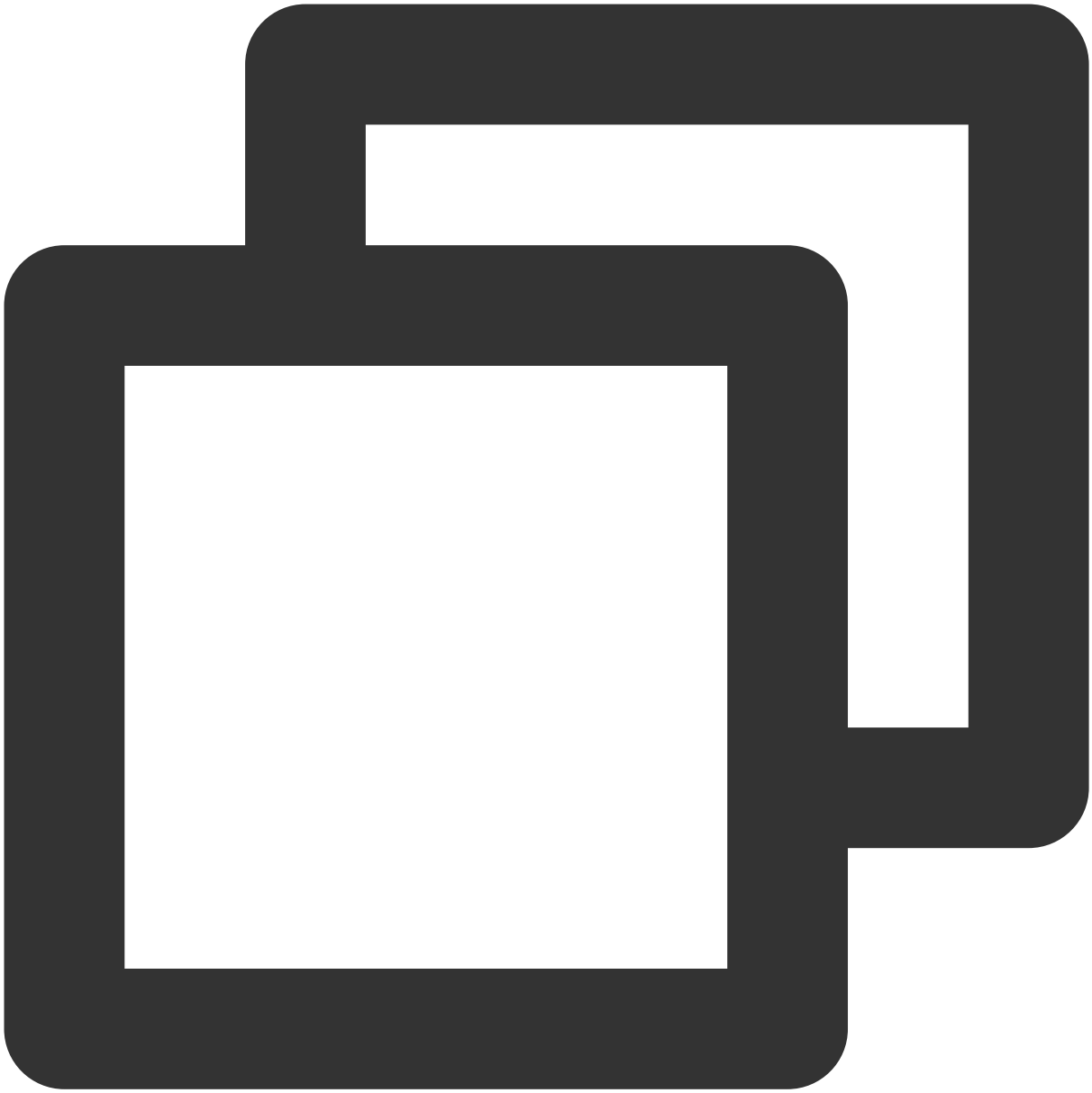

```
<Response>
    <Template>
        <Name>TemplateName</Name>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <Tag>Animation</Tag>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <TransTpl>
            <Container>
                <Format>gif</Format>
            </Container>
```

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```
            <Video>
                <Codec>gif</Codec>
                <Width>1280</Width>
                <Height></Height>
                <Fps>15</Fps>
                <AnimateOnlyKeepKeyFrame>true</AnimateOnlyKeepKeyFrame>
            </Video>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </TransTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response	Template ID	String
Name	Response	Template name	String
BucketId	Response	Template bucket	String
Category	Response	Template category: `Custom` or `Official`.	String
Tag	Response	Template tag	String
UpdateTime	Response	Update time	String
CreateTime	Response	Creation time	String
TransTpl	Response	Template parameters	Container

`Container` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type
Format	Response.TransTpl.Container	Container format: `gif`, `hgif` (higher-definition GIF), `webp`.	String

`Video` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Codec	Response.TransTpl.Video	Codec	String
Width	Response.TransTpl.Video	Width	String
Height	Response.TransTpl.Video	Height	String
Fps	Response.TransTpl.Video	Frame rate	String
AnimateOnlyKeepKeyFrame	Response.TransTpl.Video	Keeps only keyframes for animated images	String
AnimateTimeIntervalOfFrame	Response.TransTpl.Video	Frame sampling interval for animated images	String
AnimateFramesPerSecond	Response.TransTpl.Video	Number of frames sampled per second for animated images	String
Quality	Response.TransTpl.Video	Relative quality	String

`TimeInterval` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Start	Response.TransTpl.TimeInterval	Start time	String
Duration	Response.TransTpl.TimeInterval	Duration	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

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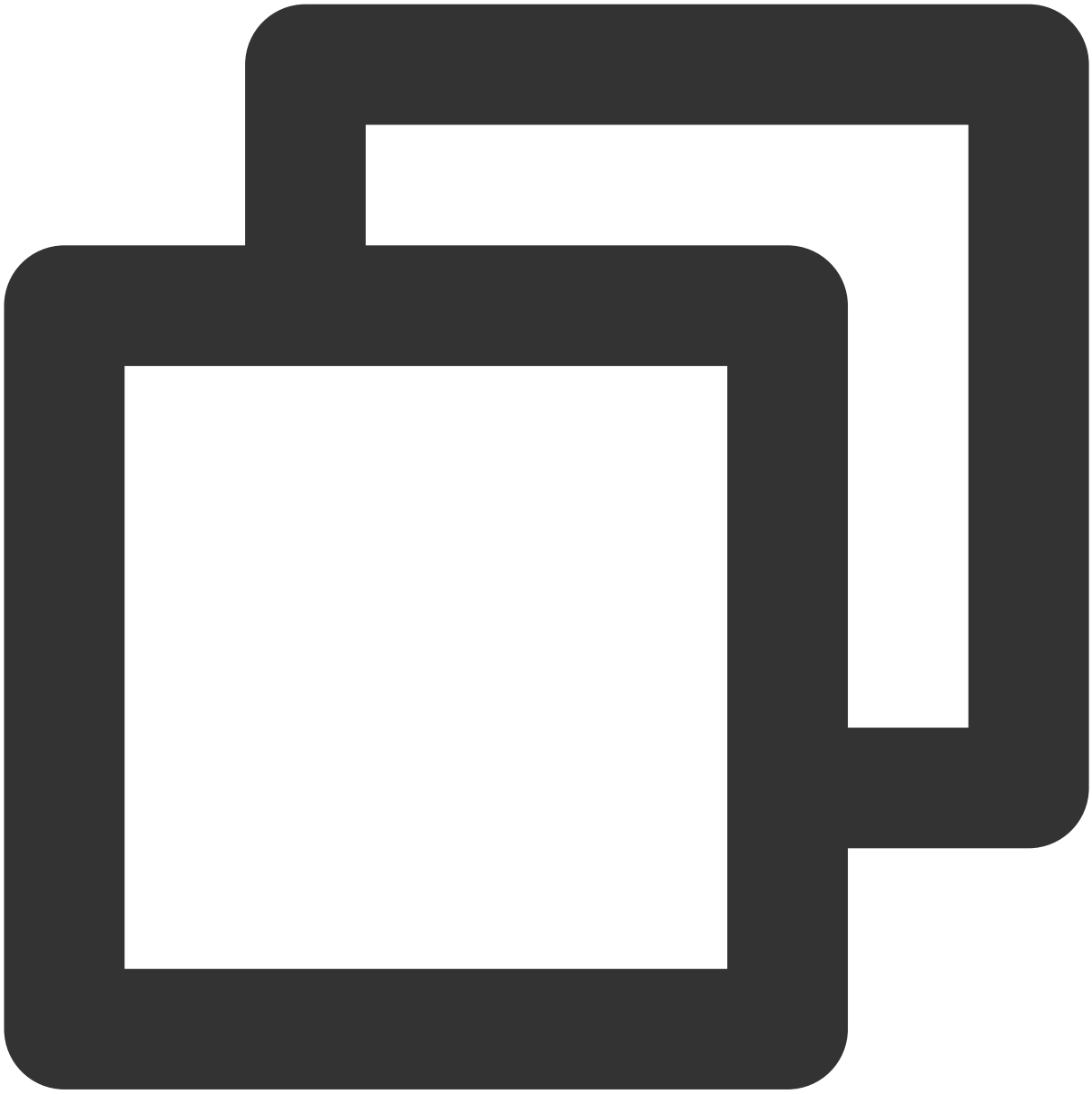
Samples

Request



```
POST /template HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml
```

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```
<Request>
    <Tag>Animation</Tag>
    <Name>TemplateName</Name>
    <Container>
       <Format>gif</Format>
    </Container>
    <Video>
       <Codec>gif</Codec>
       <Width>1280</Width>
       <Height></Height>
       <Fps>15</Fps>
       <AnimateOnlyKeepKeyFrame>true</AnimateOnlyKeepKeyFrame>
    </Video>
    <TimeInterval>
       <Start>0</Start>
       <Duration>60</Duration>
    </TimeInterval>
</Request>
```

Response

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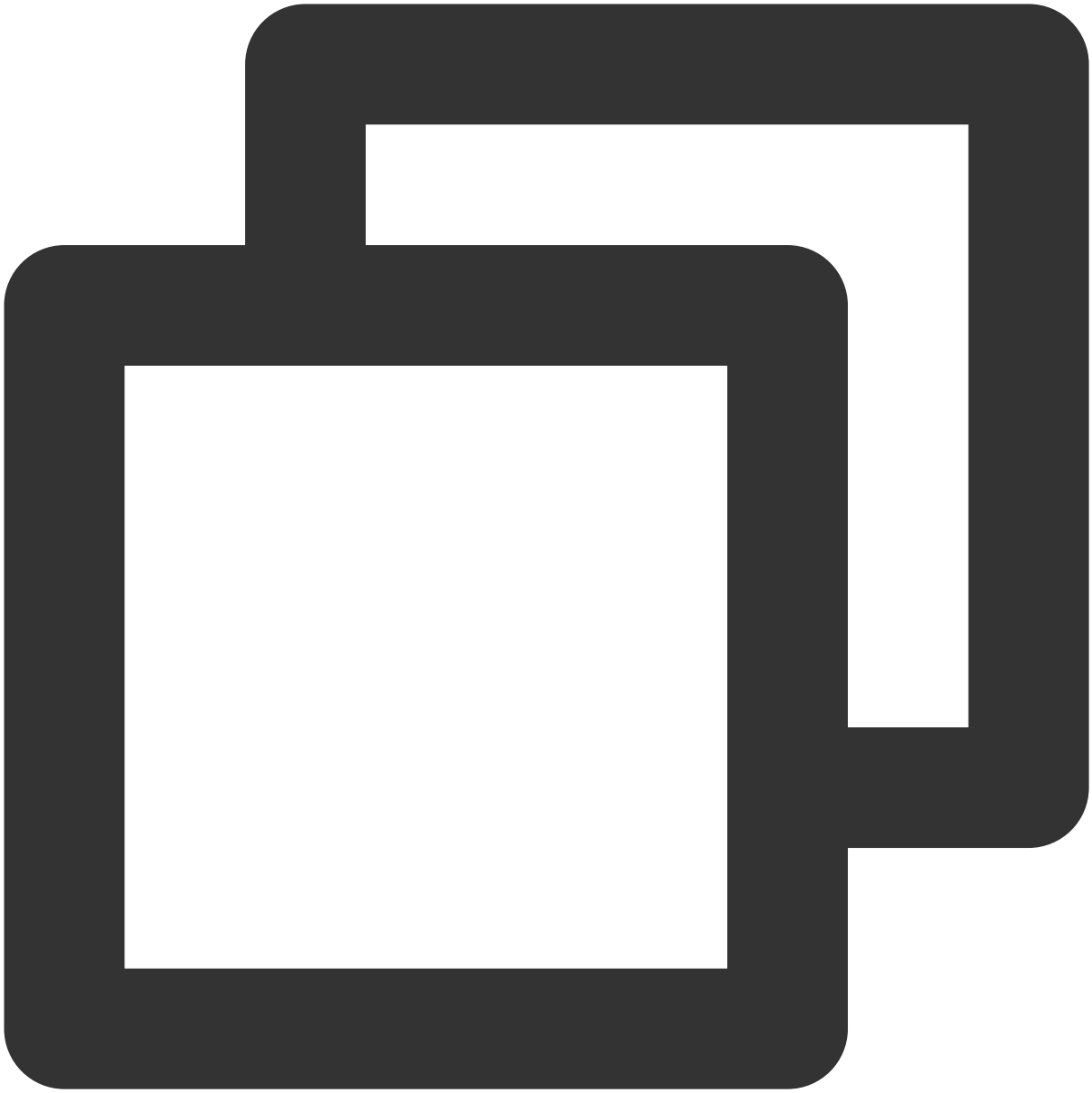

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYz****=

<Response>
    <Template>
        <Name>TemplateName</Name>
```

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```
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <Tag>Animation</Tag>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <TransTpl>
            <Container>
                <Format>gif</Format>
            </Container>
            <Video>
                <Codec>gif</Codec>
                <Width>1280</Width>
                <Height></Height>
                <Fps>15</Fps>
                <AnimateOnlyKeepKeyFrame>true</AnimateOnlyKeepKeyFrame>
            </Video>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </TransTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Splicing Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a splicing template.

Request

Sample request

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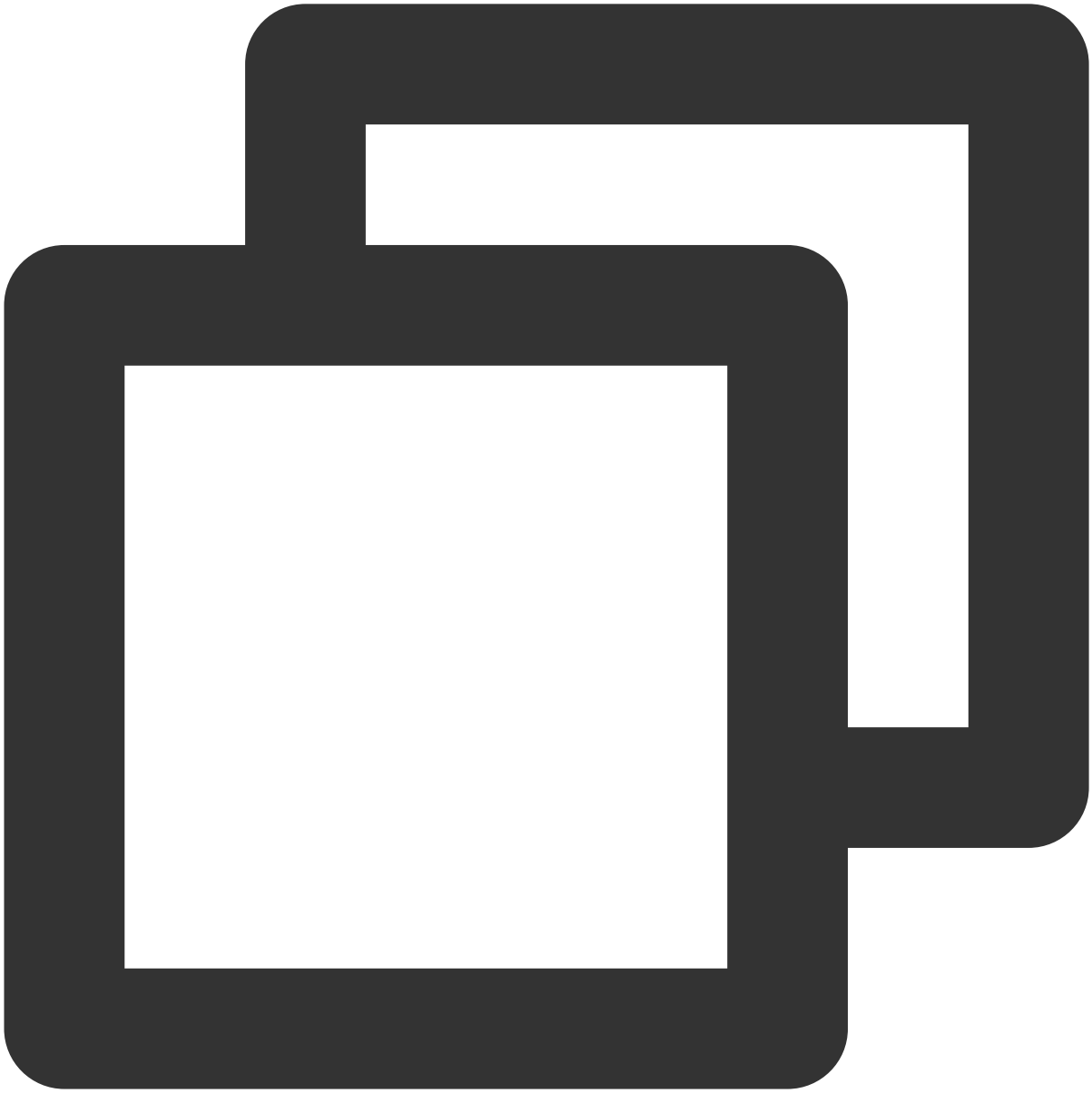

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

Common request headers

This API uses common request headers. For more information, see Common Request Headers.

Non-common request headers

This request operation does not use any non-common request headers.

Request body

This request requires the following request body:

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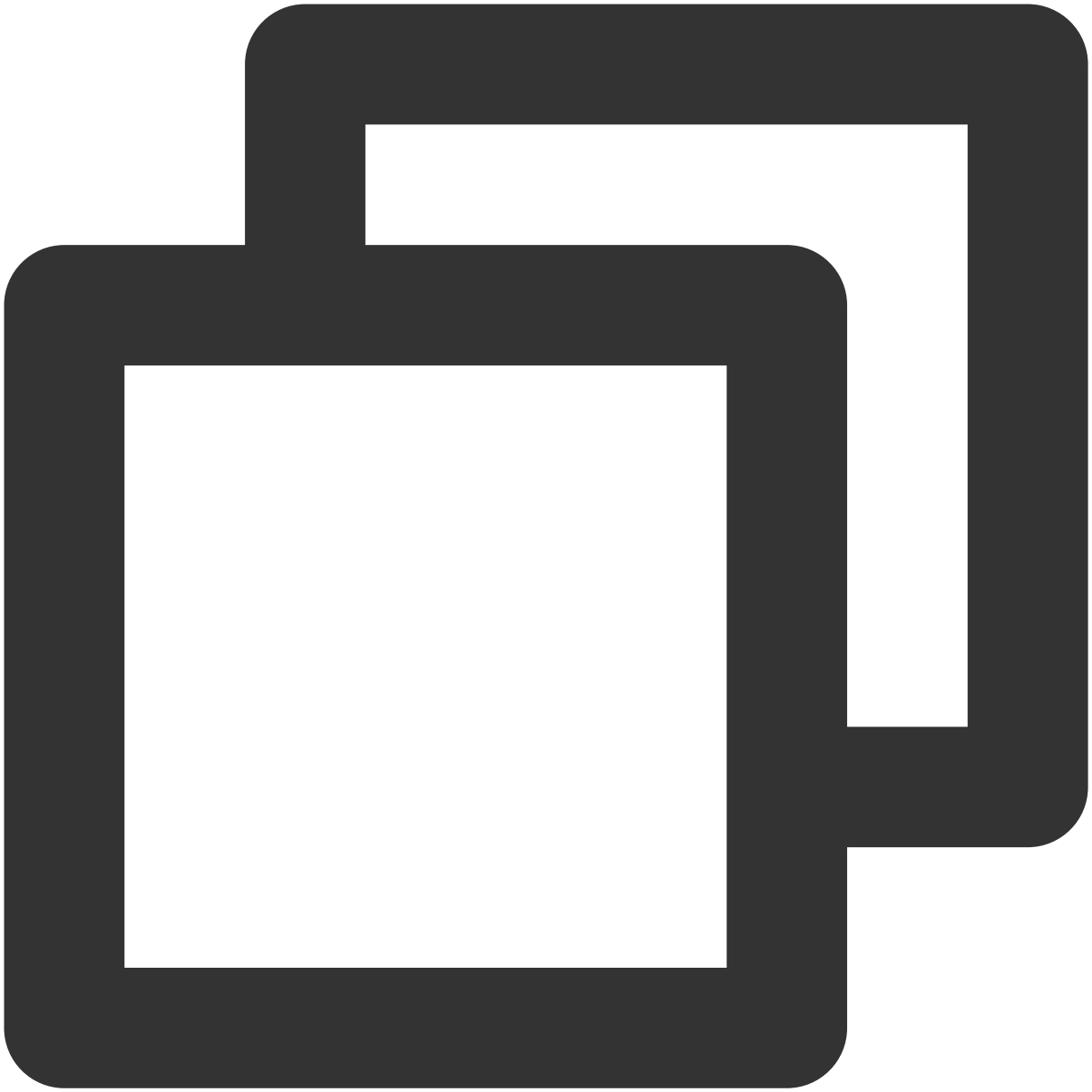

```
<Request>
    <Tag>Concat</Tag>
    <Name>TemplateName</Name>
    <ConcatTemplate>
        <ConcatFragment>
            <Mode>Start</Mode>
            <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/start.mp4</Ur
        </ConcatFragment>
        <ConcatFragment>
            <Mode>End</Mode>
            <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/end.mp4</Url>
```

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```
        </ConcatFragment>
        <Audio>
            <Codec>mp3</Codec>
            <Samplerate></Samplerate>
            <Bitrate></Bitrate>
            <Channels></Channels>
        </Audio>
        <Video>
            <Codec>H.264</Codec>
            <Bitrate>1000</Bitrate>
            <Width>1280</Width>
            <Height></Height>
            <Fps>30</Fps>
        </Video>
        <Container>
            <Format>mp4</Format>
        </Container>
        <AudioMix>
            <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3</Au
            <MixMode>Once</MixMode>
            <Replace>true</Replace>
            <EffectConfig>
                <EnableStartFadein>true</EnableStartFadein>
                <StartFadeinTime>3</StartFadeinTime>
                <EnableEndFadeout>false</EnableEndFadeout>
                <EndFadeoutTime>0</EndFadeoutTime>
                <EnableBgmFade>true</EnableBgmFade>
                <BgmFadeTime>1.7</BgmFadeTime>
            </EffectConfig>
        </AudioMix>
    </ConcatTemplate>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Template tag: Concat	String	Yes

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Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes
ConcatTemplate	Request	Splicing template	Container	Yes

`ConcatTemplate` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constra
ConcatFragment	Request.ConcatTemplate	Splicing node	Container array	Yes	None	None
Audio	Request.ConcatTemplate	Audio parameter	Container	No	Original media value	If the ta does n audio i set `Audi` to `tr`
Video	Request.ConcatTemplate	Video parameter	Container	No	Original media value	If the ta does n video i set `Vide` to `tr`
Container	Request.ConcatTemplate	Container format	Container	Yes	None	None
AudioMix	Request.ConcatTemplate	Audio mix parameter as described in Structure.	Container array	No	None	Valid o `Audi` is `fa`
DirectConcat	Request.ConcatTemplate	Whether to splice without transcoding	String	No	false	true/ fa

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`ConcatFragment` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Url	Request.ConcatTemplate.ConcatFragment	Splicing object address	String	Yes	None	Same as the address of the bucket object file.
Mode	Request.ConcatTemplate.ConcatFragment	Node type	String	Yes	None	Start End

`Audio`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.ConcatTemplate.Audio	Codec format	String	Yes	Original codec of the file	Valid values: `aac`, `mp3`.
Samplerate	Request.ConcatTemplate.Audio	Sample rate	String	No	Original sample rate of the file	Unit: Hz Valid values: `11025`, `22050`, `32000`, `44100`, `48000`, `96000`. Different container formats support different MP3 sample rates, as shown in

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						the table below.
Bitrate	Request.ConcatTemplate.Audio	Audio bitrate	String	No	Original audio bitrate of the file	Unit: Kbps Value range: [8, 1000]
Channels	Request.ConcatTemplate.Audio	Number of sound channels	String	No	Original number of sound channels of the file	If `Codec` is `aac`, the value can be `1`, `2`, `4`, `5`, `6`, or `8`. If `Codec` is `mp3`, the value can be `1` or `2`.

Y indicates supported, and N indicates unsupported.

Container Format/Audio Sample Rate	11025	22050	32000	44100	48000	96000
mp3	Y	Y	Y	Y	Y	N

`Container`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Format	Request.ConcatTemplate.Container	Container format: mp4, flv, hls, ts, mp3, aac	String	Yes

`Video`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints

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Codec	Request.ConcatTemplate.Video	Codec format	String	Yes	H.264	H.264
Width	Request.ConcatTemplate.Video	Width	String	No	Original video width	Value range: [128, 4096] Unit: px If only `Width` is set, `Height` is calculated based on the original video aspect ratio.
Height	Request.ConcatTemplate.Video	Height	String	No	Original video height	Value range: [128, 4096] Unit: px If only `Height` is set, `Width` is calculated based on the original video aspect ratio.
Fps	Request.ConcatTemplate.Video	Frame rate	String	No	Original video frame rate	Value range: (0, 60] Unit: fps
Bitrate	Request.ConcatTemplate.Video	Bitrate of the video output file	String	No	Original video bitrate	Value range: [10, 50000] Unit: Kbps
Crf	Request.ConcatTemplate.Video	Bitrate, which is a quality control factor	String	No	Original video bitrate	Value range: (0, 51] If `Crf` is set, the setting of `Bitrate` becomes invalid. If `Bitrate` is empty,

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						`25` is used for this parameter by default.
Remove	Request.ConcatTemplate.Video	Whether to delete the video stream	String	No	false	Valid values: `true`, `false`.
Rotate	Request.Video	Rotation angle	String	No	None	1. Value range: [0, 360) 2. Unit: Degree

Response

Response headers

Common response headers

This response contains common response headers. For more information, see Common Response Headers.

Non-common response headers

This response does not use any non-common response header.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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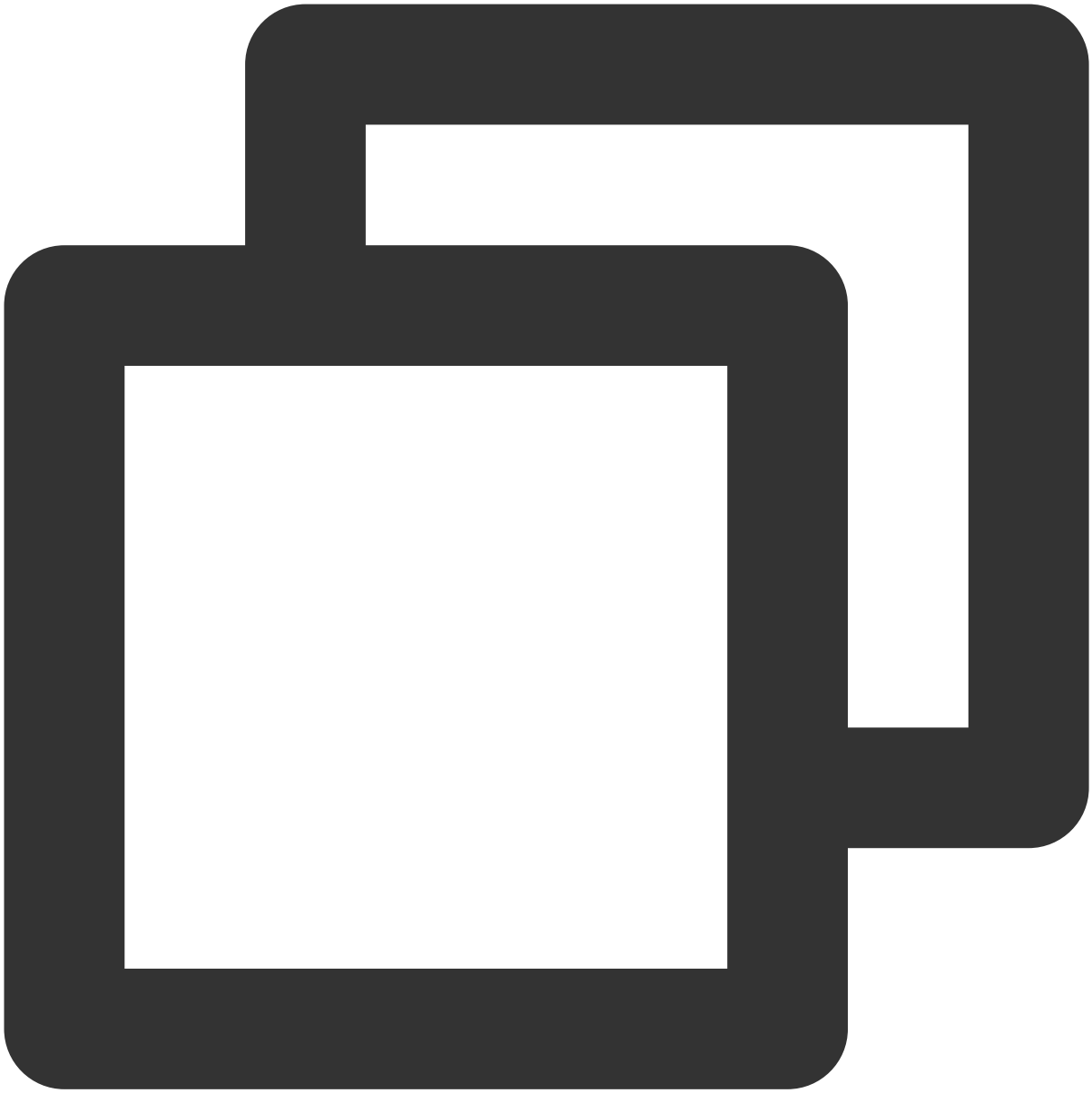

```
<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Tag>Concat</Tag>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <ConcatTemplate>
            <ConcatFragment>
                <Mode>Start</Mode>
                <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/start.mp4
```

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```
            </ConcatFragment>
            <ConcatFragment>
                <Mode>End</Mode>
                <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/end.mp4</
            </ConcatFragment>
            <Audio>
                <Codec>mp3</Codec>
                <Samplerate></Samplerate>
                <Bitrate></Bitrate>
                <Channels></Channels>
            </Audio>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Height></Height>
                <Fps>30</Fps>
            </Video>
            <Container>
                <Format>mp4</Format>
            </Container>
            <AudioMix>
                <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3
                <MixMode>Once</MixMode>
                <Replace>true</Replace>
                <EffectConfig>
                    <EnableStartFadein>true</EnableStartFadein>
                    <StartFadeinTime>3</StartFadeinTime>
                    <EnableEndFadeout>false</EnableEndFadeout>
                    <EndFadeoutTime>0</EndFadeoutTime>
                    <EnableBgmFade>true</EnableBgmFade>
                    <BgmFadeTime>1.7</BgmFadeTime>
                </EffectConfig>
            </AudioMix>
        </ConcatTemplate>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String
Tag	Response.Template	Template tag: Concat	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
ConcatTemplate	Response.Template	Same as the `Request.ConcatTemplate` in the request body.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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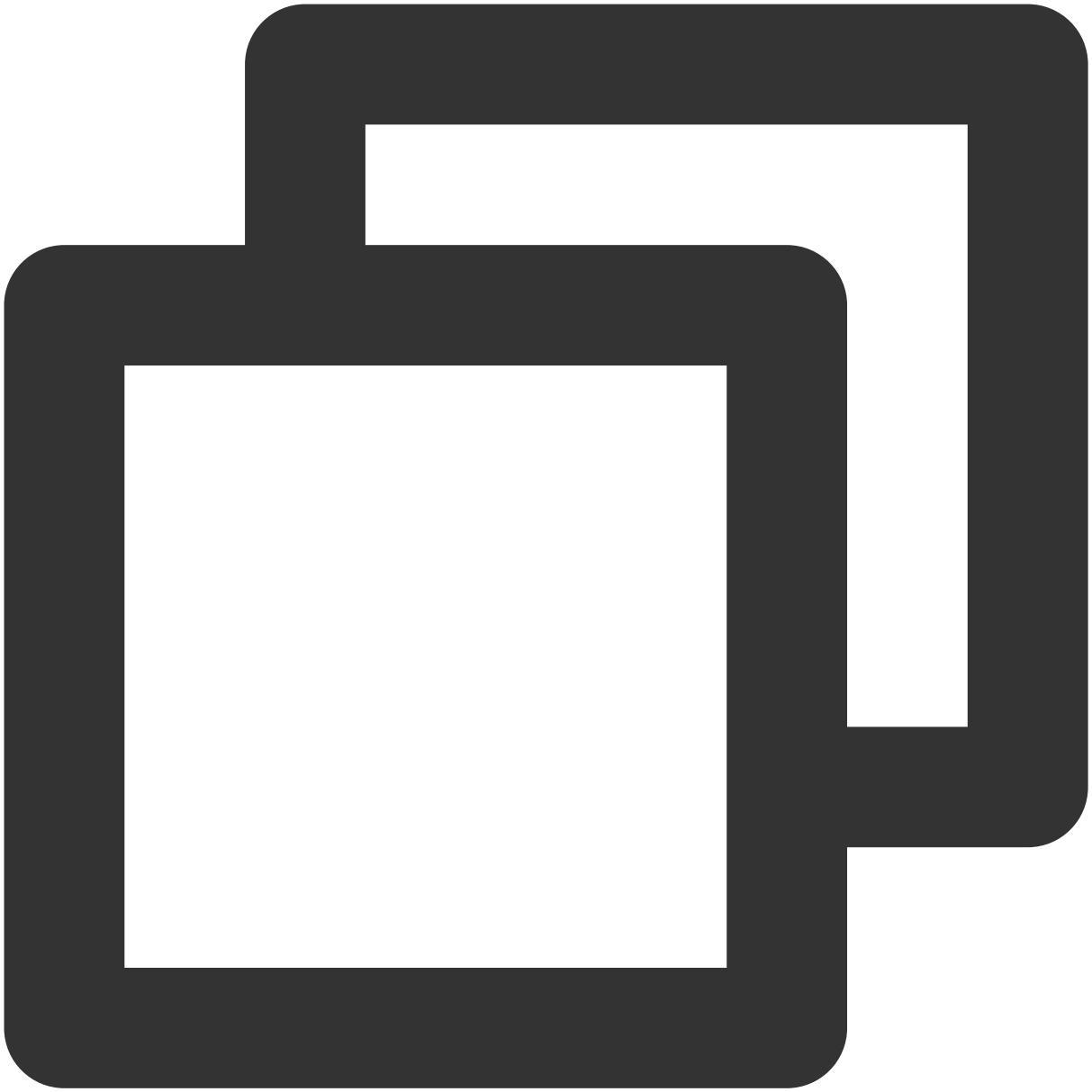

```
POST /template HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR98****-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
   <Tag>Concat</Tag>
   <Name>TemplateName</Name>
   <ConcatTemplate>
        <ConcatFragment>
```

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```
            <Mode>Start</Mode>
            <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/start.mp4</Ur
        </ConcatFragment>
        <ConcatFragment>
            <Mode>End</Mode>
            <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/end.mp4</Url>
        </ConcatFragment>
        <Audio>
            <Codec>mp3</Codec>
            <Samplerate></Samplerate>
            <Bitrate></Bitrate>
            <Channels></Channels>
        </Audio>
        <Video>
            <Codec>H.264</Codec>
            <Bitrate>1000</Bitrate>
            <Width>1280</Width>
            <Height></Height>
            <Fps>30</Fps>
        </Video>
        <Container>
            <Format>mp4</Format>
        </Container>
        <AudioMix>
            <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3</Au
            <MixMode>Once</MixMode>
            <Replace>true</Replace>
            <EffectConfig>
                <EnableStartFadein>true</EnableStartFadein>
                <StartFadeinTime>3</StartFadeinTime>
                <EnableEndFadeout>false</EnableEndFadeout>
                <EndFadeoutTime>0</EndFadeoutTime>
                <EnableBgmFade>true</EnableBgmFade>
                <BgmFadeTime>1.7</BgmFadeTime>
            </EffectConfig>
        </AudioMix>
    </ConcatTemplate>
</Request>
```

Response

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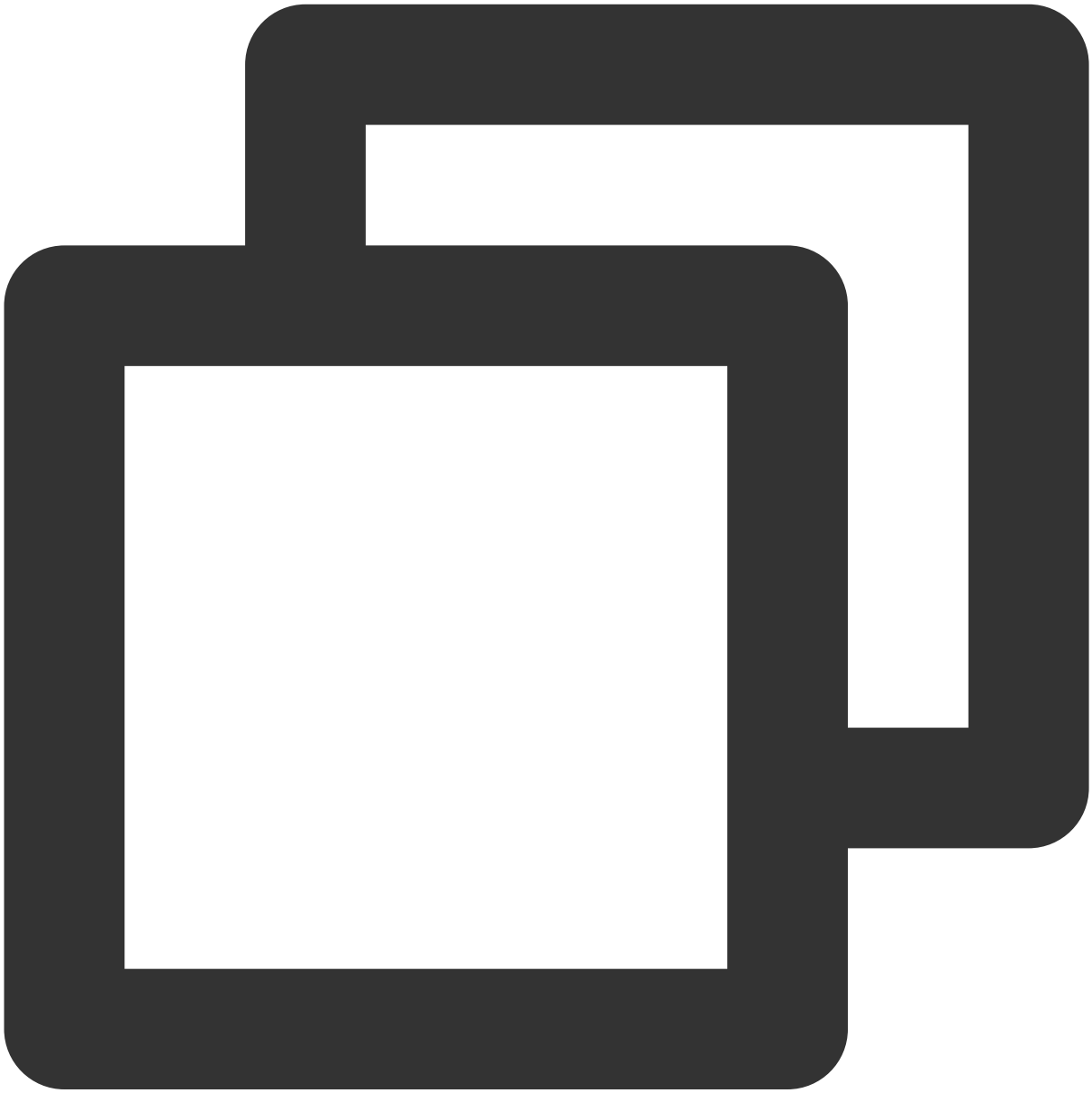

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
        <Tag>Concat</Tag>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <ConcatTemplate>
            <ConcatFragment>
                <Mode>Start</Mode>
                <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/start.mp4
            </ConcatFragment>
            <ConcatFragment>
                <Mode>End</Mode>
                <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/end.mp4</
            </ConcatFragment>
            <Audio>
                <Codec>mp3</Codec>
                <Samplerate></Samplerate>
                <Bitrate></Bitrate>
                <Channels></Channels>
            </Audio>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Height></Height>
                <Fps>30</Fps>
            </Video>
            <Container>
                <Format>mp4</Format>
            </Container>
            <AudioMix>
                <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3
                <MixMode>Once</MixMode>
                <Replace>true</Replace>
                <EffectConfig>
                    <EnableStartFadein>true</EnableStartFadein>
                    <StartFadeinTime>3</StartFadeinTime>
                    <EnableEndFadeout>false</EnableEndFadeout>
                    <EndFadeoutTime>0</EndFadeoutTime>
                    <EnableBgmFade>true</EnableBgmFade>
                    <BgmFadeTime>1.7</BgmFadeTime>
                </EffectConfig>
            </AudioMix>
        </ConcatTemplate>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Top Speed Codec Transcoding Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a top speed codec transcoding template.

Request

Sample request

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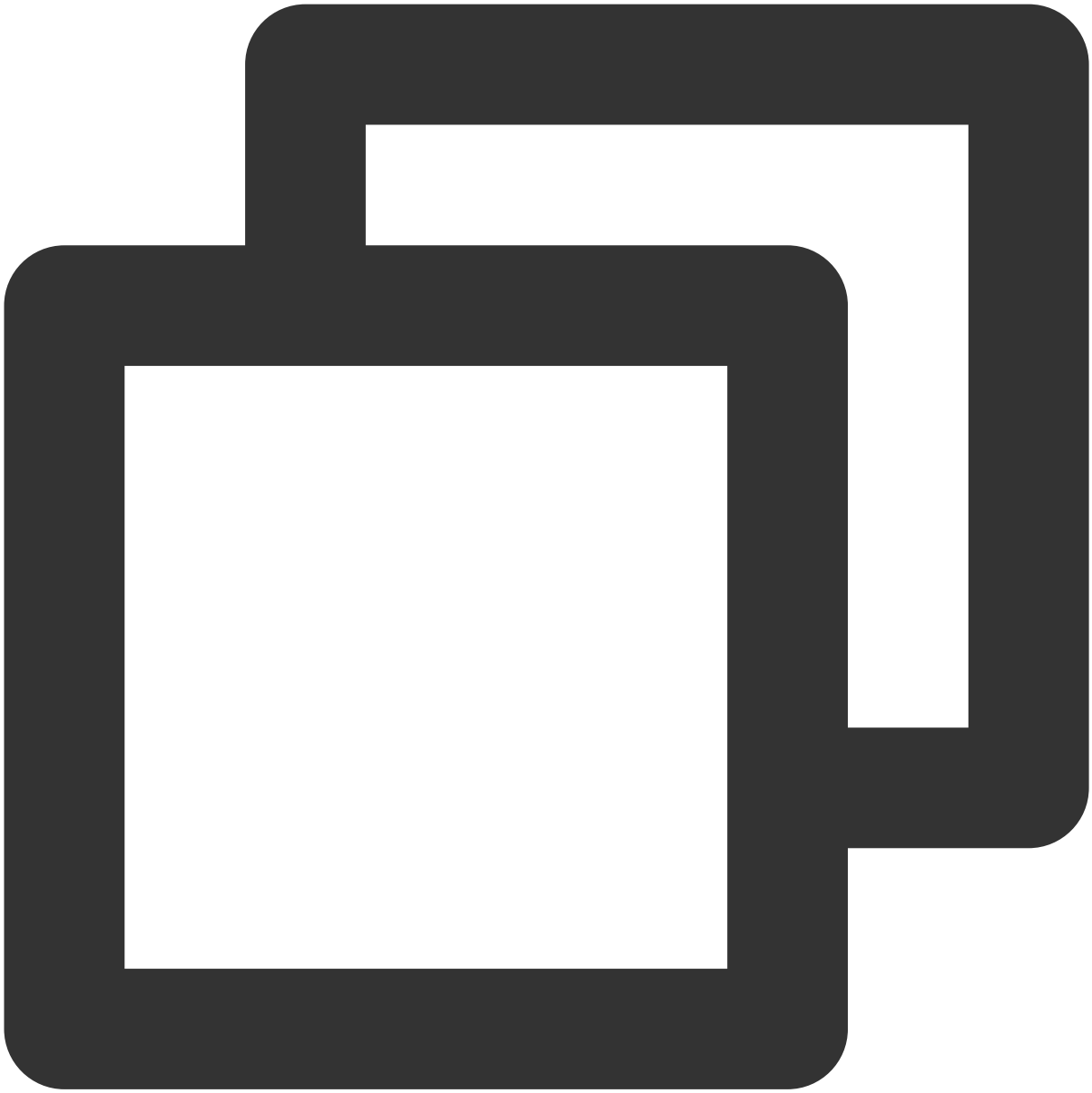

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

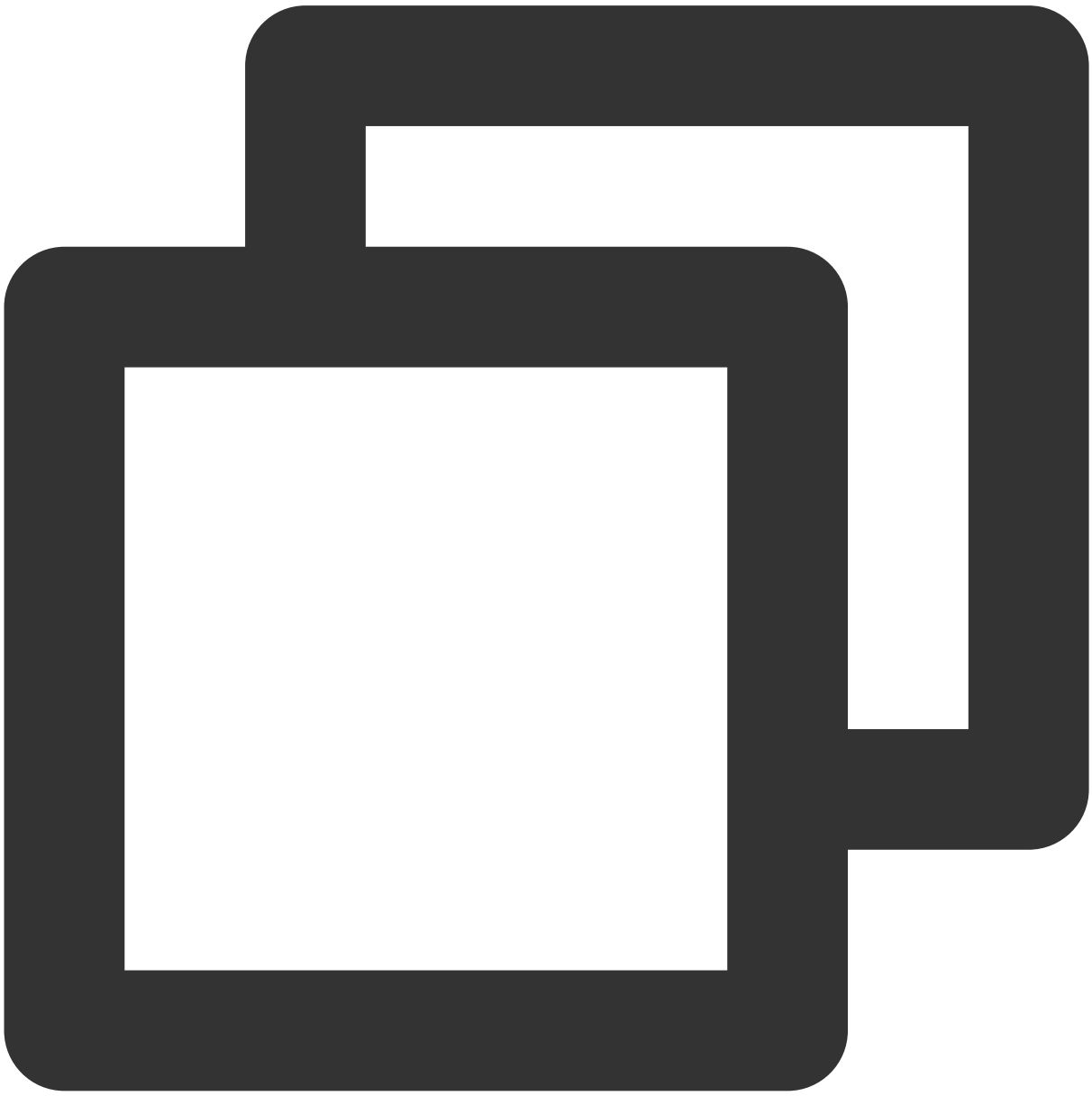
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>HighSpeedHd</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
        <Bufsize>0</Bufsize>
        <Maxrate>0</Maxrate>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </Audio>
    <TransConfig>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Template tag: HighSpeedHd	String	Yes	None

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Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes	None
Container	Request	Container format	Container	Yes	None
Video	Request	Video information	Container	Yes	None
TimeInterval	Request	Time interval	Container	No	None
Audio	Request	Audio information	Container	No	None
TransConfig	Request	Transcoding configuration	Container	No	None

`Container`
has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Format	Request.Container	Container format. Valid values: `mp4`, `flv`, `hls`.	String	Yes
ClipConfig	Request.Container	Segment configuration. This node will take effect only when `Format` is `hls`.	Container	No

`ClipConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Duration	Request.Container.ClipConfig	Segment duration. Default value: 5s	String	No

Audio/Video formats supported by different container formats are as follows:

Container	Audio Codecs	Video Codecs
mp4/hls/mkv	AAC, MP3	H.264, H.265
flv	AAC, MP3	H.264

`Video`

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has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Video	Codec format	String	No	H.264	H.264, H.265
Width	Request.Video	Width	String	No	Original video width	1. Value range: [128, 4096] 2.Unit: px 3.If only `Width` is set, `Height` is calculated according to the original video aspect ratio. 4.This parameter must be an even number.
Height	Request.Video	Height	String	No	Original video height	1. Value range: [128, 4096] 2. Unit: px 3. If only Height is set, Width is calculated according to the original video aspect ratio. 4. This parameter must be an even number.
Fps	Request.Video	Frame rate	String	No	None	1. Value range: (0, 60] 2. Unit: fps
Profile	Request.Video	Encoding level	String	No	high	1. Valid values: baseline, main, high. 2. 2. baseline: Suitable for mobile devices 3. main: Suitable for standard resolution devices 4. high: Suitable for high resolution devices 5. Only H.264 supports this parameter.
Bitrate	Request.Video	Bitrate of	String	No	None	1. Value range: [10,

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		the video output file				50000] 2. Unit: Kbps
Crf	Request.Video	Bitrate, which is a quality control factor	String	No	None	1. Value range: (0, 51] 2. If Crf is set, the setting of Bitrate will become invalid. 3. If Bitrate is empty, 25 is used for this parameter by default.
Gop	Request.Video	Maximum number of frames between two keyframes	String	No	None	Value range: [0, 100000]
Preset	Request.Video	Video algorithm preset	String	No	medium	1. Only H.264 supports this parameter. 2. Valid values: veryfast, fast, medium, slow, slower.
Bufsize	Request.Video	Buffer size	String	No	None	1. Value range: [1000, 128000] 2. Unit: Kb
Maxrate	Request.Video	Peak video bitrate	String	No	None	1. Value range: [10, 50000] 2. Unit: Kbps
Pixfmt	Request.Video	Video color format	String	No	None	1. Valid values for H.264: yuv420p, auto. 2. Valid values for H.265: yuv420p, yuv420p10le, auto.
Rotate	Request.Video	Rotation angle	String	No	None	1. Value range: [0, 360) 2. Unit: Degree

`TimeInterval`

has the following sub-nodes:

Node	Parent Node	Description	Type	Required	Default	Constraints

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Name (Keyword)					Value	
Start	Request.TimeInterval	Start time	String	No	None	1. Value range: [0, video duration] 2. Unit: Second 3. The float format is supported, accurate to the millisecond.
Duration	Request.TimeInterval	Duration	String	No	None	1. Value range: [0, video duration] 2. Unit: Second 3. The float format is supported, accurate to the millisecond.

`Audio`
has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Audio	Codec format	String	No	aac	Valid values: `aac`, `mp3`.
Samplerate	Request.Audio	Sample rate	String	No	44100	1. Unit: Hz 2. Valid values: 11025, 22050, 32000, 44100, 48000, 96000. 3. Different container formats support different MP3 sample rates, as shown in the table below.
Bitrate	Request.Audio	Original audio bitrate	String	No	None	1. Unit: Kbps 2. Value range: [8, 1000]
Channels	Request.Audio	Number of	String	No	None	1. If Codec is aac, the

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		sound channels				value can be 1, 2, 4, 5, 6, or 8. 2. If Codec is mp3, the value can be 1 or 2.
Remove	Request.Audio	Whether to delete the source audio stream	String	No	false	Valid values: `true`, `false`.

Note:

Y indicates supported, and N indicates unsupported.

Container Format/Audio Sample Rate	11025	22050	32000	44100	48000	96000
flv	N	Y	N	Y	N	N
mp4	N	Y	Y	Y	Y	N
hls/mkv	Y	Y	Y	Y	Y	N

`TransConfig`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Cons
AdjDarMethod	Request.TransConfig	Resolution adjustment method	String	No	none	Valic `cr` If the outp that reso acco
IsCheckReso	Request.TransConfig	Whether to check the resolution	String	No	false	1. Va 2. If trans base
ResoAdjMethod	Request.TransConfig	Resolution adjustment	String	No	0	1. Va indic

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		method				vide indic trans 2. Th effec IsCh
IsCheckVideoBitrate	Request.TransConfig	Whether to check the video bitrate	String	No	false	Valic `fa` If the trans base

VideoBitrateAdjMethod	Request.TransConfig	Video bitrate adjustment method	String	No	0	Valic
						Whe
						high
						vide
						the c
						`1`
						trans
						This
						effec
						`Is`
						is `t`

IsCheckAudioBitrate	Request.TransConfig	Whether to check the audio bitrate	String	No	false	Valic `fa` If the trans base

AudioBitrateAdjMethod	Request.TransConfig	Audio bitrate adjustment method	String	No	0	Valic
						Whe
						high
						audi
						the c
						`1`
						trans
						This
						effec
						`Is`
						is `t`

IsCheckVideoFps	Request.TransConfig	Whether to check the	String	No	false	Valic `fa`

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		video frame rate				If the trans base
VideoFpsAdjMethod	Request.TransConfig	Video frame rate adjustment method	String	No	0	Valid Whe high inpu use rate, retur mes This effec `Is` `tr`
DeleteMetadata	Request.TransConfig	Whether to delete metadata from the file	String	No	false	1. Va `fa` 2. If the s retai
IsHdr2Sdr	Request.TransConfig	Whether to enable HDR-to-SDR conversion	String	No	false	true/
HlsEncrypt	Request.TransConfig	HLS encryption configuration	Container	No	None	Non

The `AdjDarMethod` parameter is illustrated as follows:

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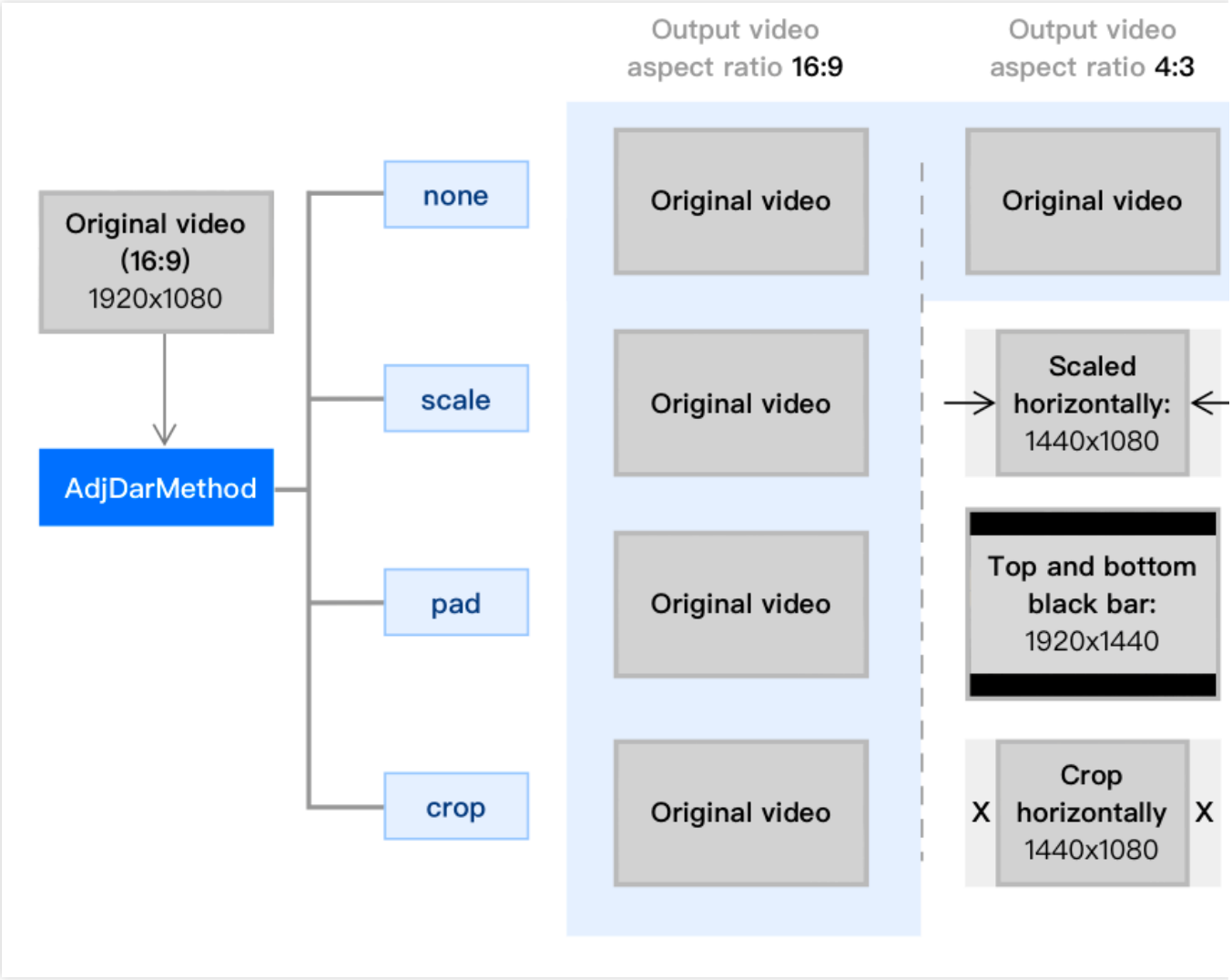

`HlsEncrypt` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constrai
IsHlsEncrypt	Request.TransConfig.HlsEncrypt	Whether to enable HLS encryption	String	No	false	1. Valid v true, fals 2. Encryp supporte when Containe is hls.
UriKey	Request.TransConfig.HlsEncrypt	HLS encryption key	String	No	None	This para take effe when `IsHlsE` is `true`

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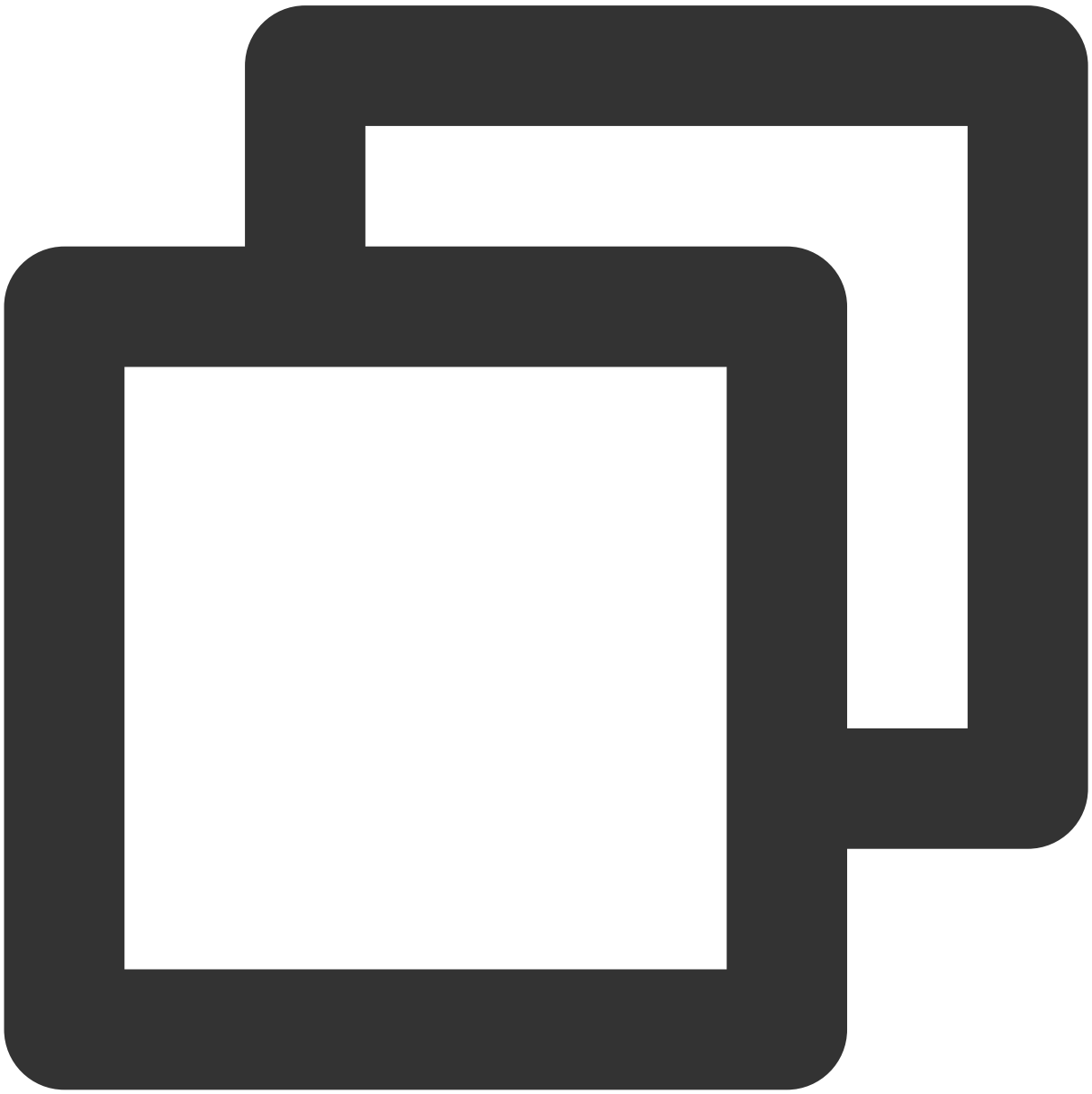
Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <Template>
```

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```
        <Tag>HighSpeedHd</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <HighSpeedHd>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
                <Bufsize>0</Bufsize>
                <Maxrate>0</Maxrate>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
            </Audio>
            <TransConfig>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </HighSpeedHd>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String
Tag	Response.Template	Template tag: HighSpeedHd	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
HighSpeedHd	Response.Template	Template parameters	Container

`HighSpeedHd` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TimeInterval	Response.Template.HighSpeedHd	Same as `Request.TimeInterval` in the request body.	Container
Container	Response.Template.HighSpeedHd	Same as `Request.Container` in the request body.	Container
Video	Response.Template.HighSpeedHd	Same as `Request.Video` in the request body.	Container
Audio	Response.Template.HighSpeedHd	Same as `Request.Audio` in the request body.	Container
TransConfig	Response.Template.HighSpeedHd	Same as `Request.TransConfig` in the request body.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

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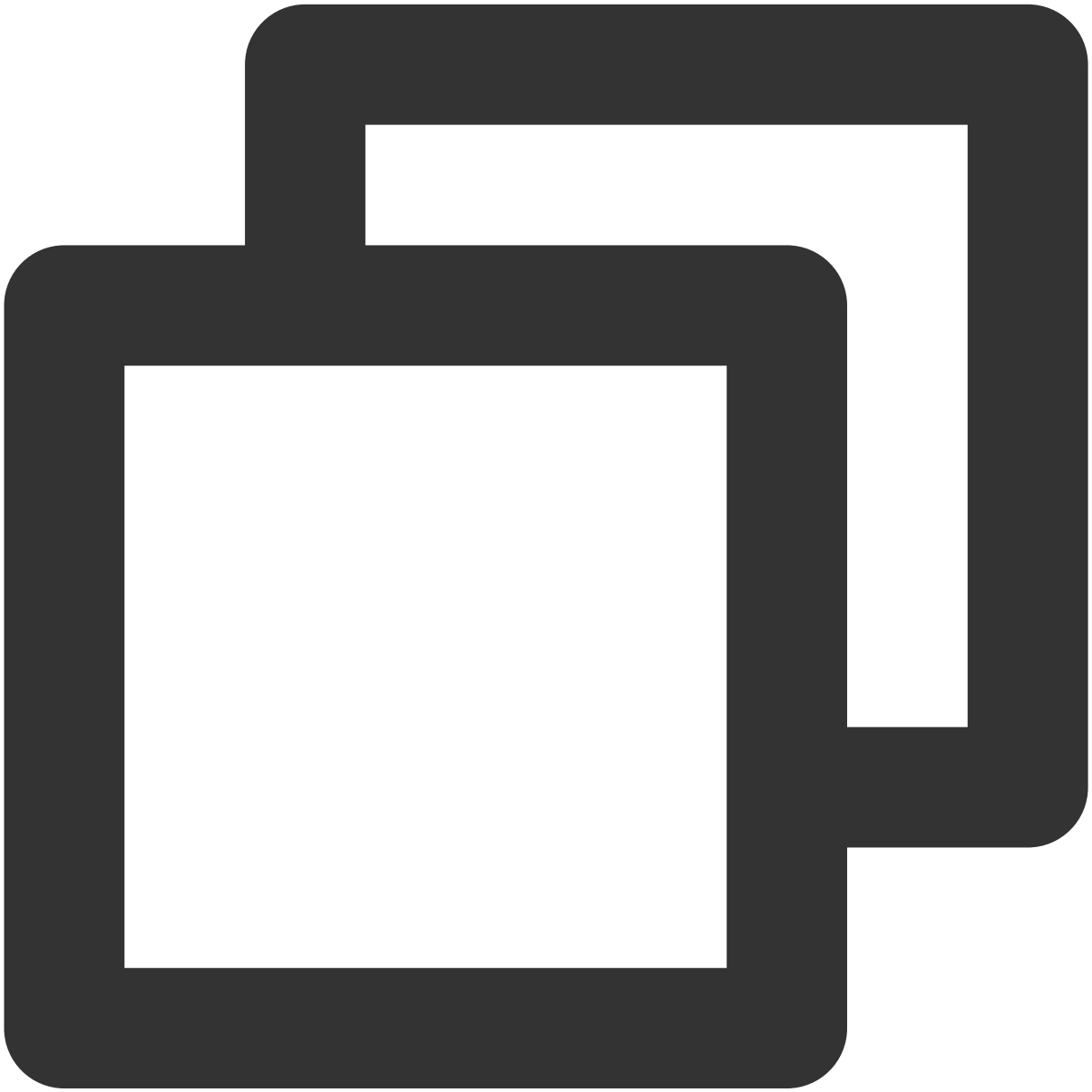
Request



```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0**********&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>HighSpeedHd</Tag>
    <Name>TemplateName</Name>
```

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```
    <Container>
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
        <Bufsize>0</Bufsize>
        <Maxrate>0</Maxrate>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </Audio>
    <TransConfig>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

Response

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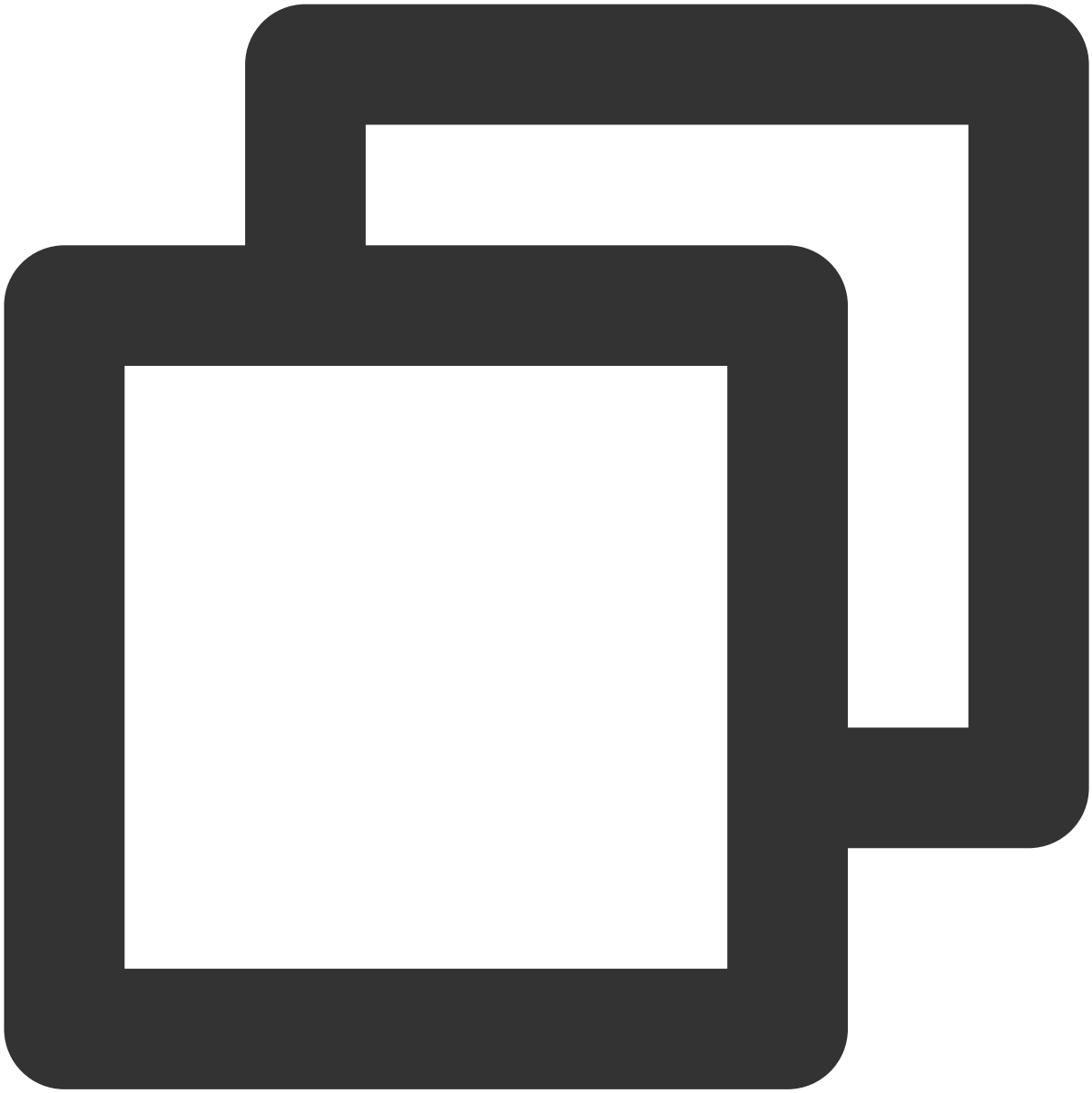

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>HighSpeedHd</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <HighSpeedHd>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
                <Bufsize>0</Bufsize>
                <Maxrate>0</Maxrate>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
            </Audio>
            <TransConfig>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </HighSpeedHd>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Screenshot Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a screenshot template.

Request

Sample request

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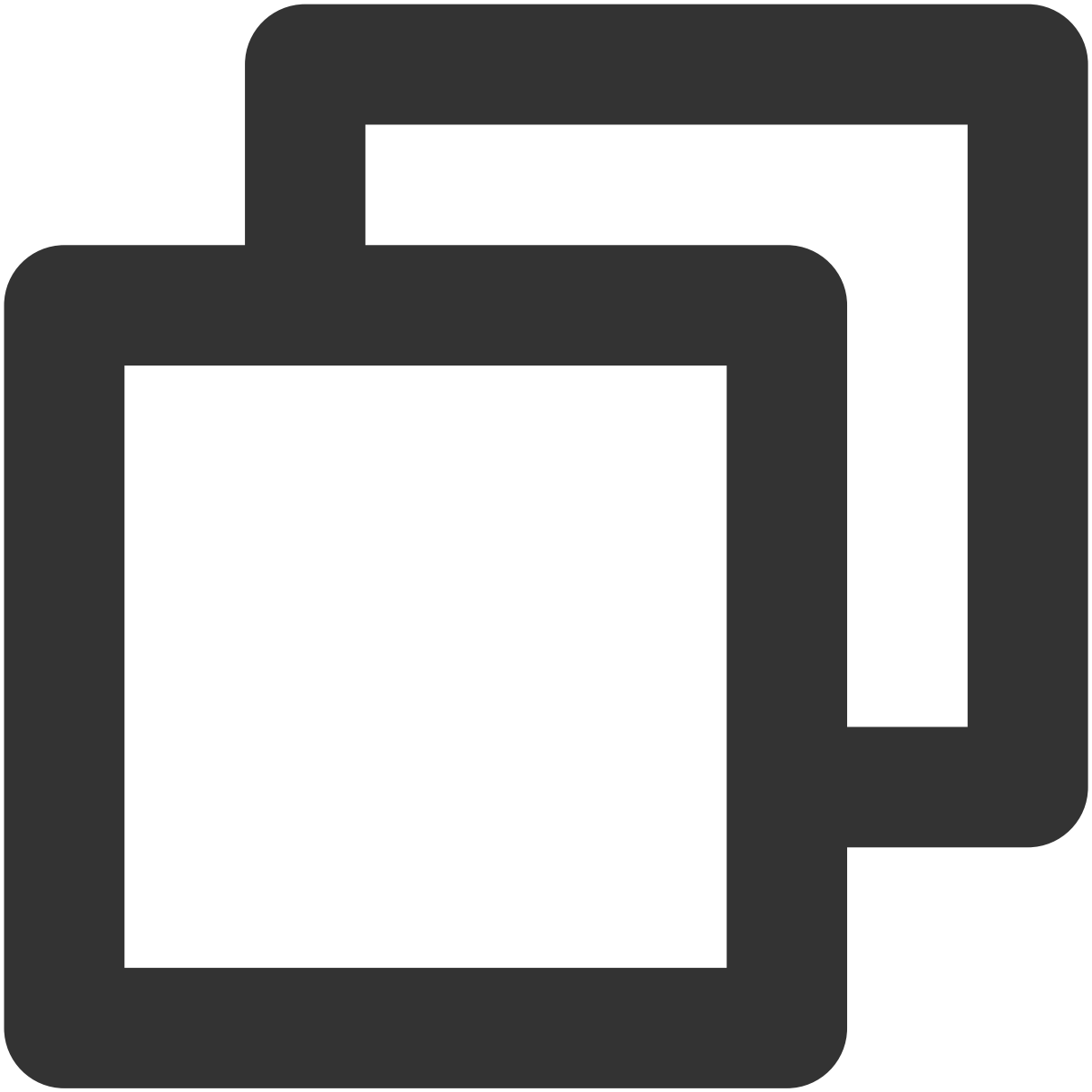

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

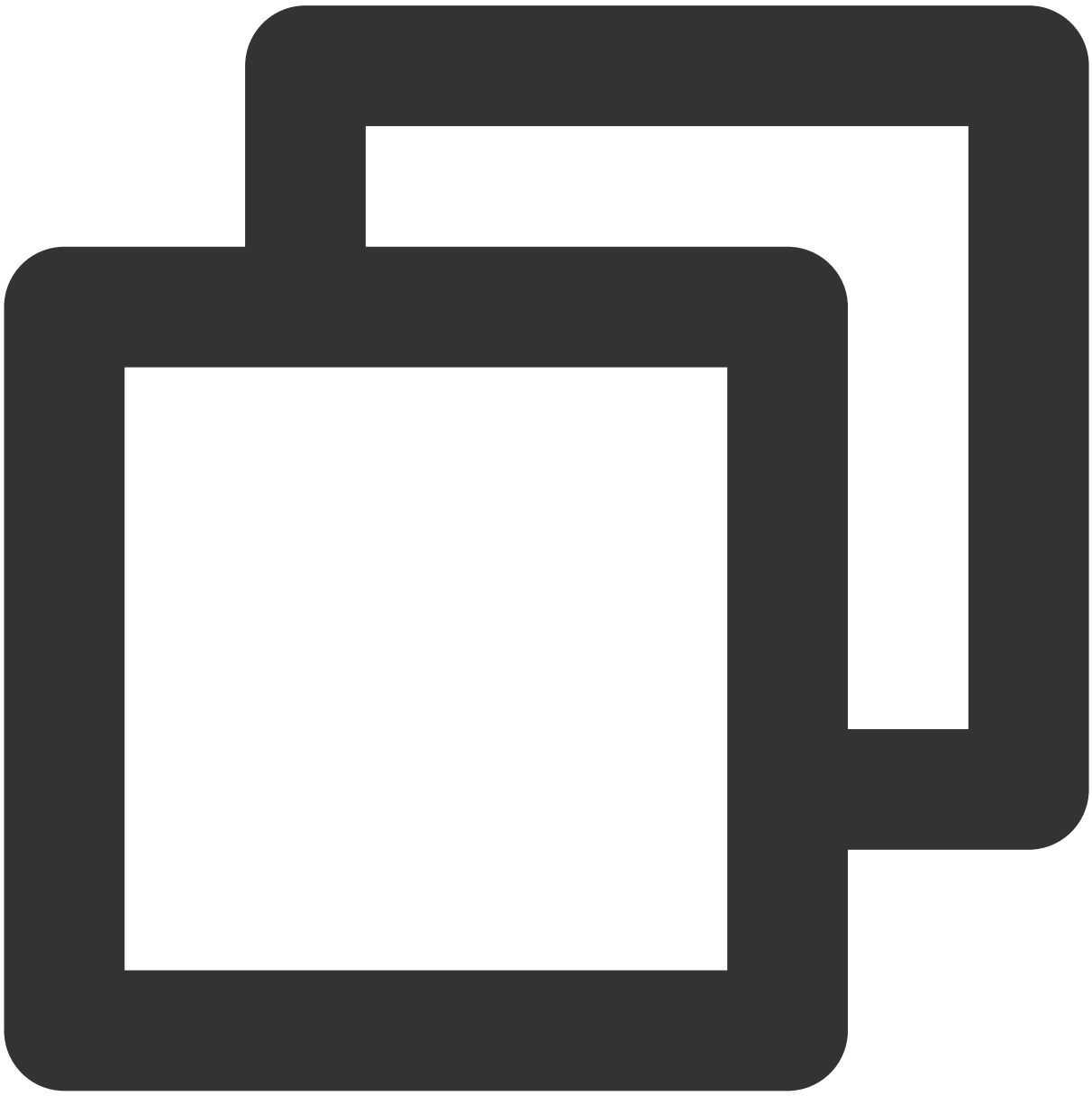
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Snapshot</Tag>
    <Name>TemplateName</Name>
    <Snapshot>
        <Mode>Interval</Mode>
        <Width>1280</Width>
        <Height>960</Height>
        <Start>0</Start>
        <TimeInterval>0.5</TimeInterval>
        <Count>10</Count>
        <SnapshotOutMode>OnlySprite</SnapshotOutMode>
        <SpriteSnapshotConfig>
            <Color>Aquamarine</Color>
            <Columns>3</Columns>
            <Lines>3</Lines>
        </SpriteSnapshotConfig>
    </Snapshot>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Template tag: Snapshot	String	Yes
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes
Snapshot	Request	Screenshot	Container	Yes

`Snapshot`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	C

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Mode	Request.Snapshot	Screenshot mode	String	No	Interval	V m A m Ir va a n ca n ca A p in o a vi
Start	Request.Snapshot	Start time	String	No	0	[0 U S a
TimeInterval	Request.Snapshot	Screenshot time interval	String	No	None	(0 U S a m
Count	Request.Snapshot	Number of screenshots	String	Yes	None	(0
Width	Request.Snapshot	Width	String	No	Original video width	V U

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						If b a
Height	Request.Snapshot	Height	String	No	Original video height	V U If b a
CIParam	Request.Snapshot	Screenshot processing parameter	String	No	None	S E in
IsCheckCount	Request.Snapshot	Whether to force check the number of screenshots	String	No	false	W m s n a s
IsCheckBlack	Request.Snapshot	Whether to enable black screen check	String	No	false	tr
BlackLevel	Request.Snapshot	Screenshot black screen check parameter	String	No	None	V V ir b th p If p a b If p fr

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						fr fr
PixelBlackThreshold	Request.Snapshot	Screenshot black screen check parameter	String	No	None	V T w V
SnapshotOutMode	Request.Snapshot	Screenshot output mode parameter	String	No	OnlySnapshot	V C in C in
SpriteSnapshotConfig	Request.Snapshot	Image sprite output configuration	Container	No	None	N

`Snapshot.SpriteSnapshotConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value
CellWidth	Request.Snapshot.SpriteSnapshotConfig	Subimage width	String	No	Screenshot width
CellHeight	Request.Snapshot.SpriteSnapshotConfig	Subimage height	String	No	Screenshot height
Padding	Request.Snapshot.SpriteSnapshotConfig	Image sprite padding size	String	No	0

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Margin	Request.Snapshot.SpriteSnapshotConfig	Image sprite margin size	String	No	0
Color	Request.Snapshot.SpriteSnapshotConfig	Background color	String	Yes	None
Columns	Request.Snapshot.SpriteSnapshotConfig	Number of columns in the image sprite	String	Yes	0
Lines	Request.Snapshot.SpriteSnapshotConfig	Number of rows in the image sprite	String	Yes	0

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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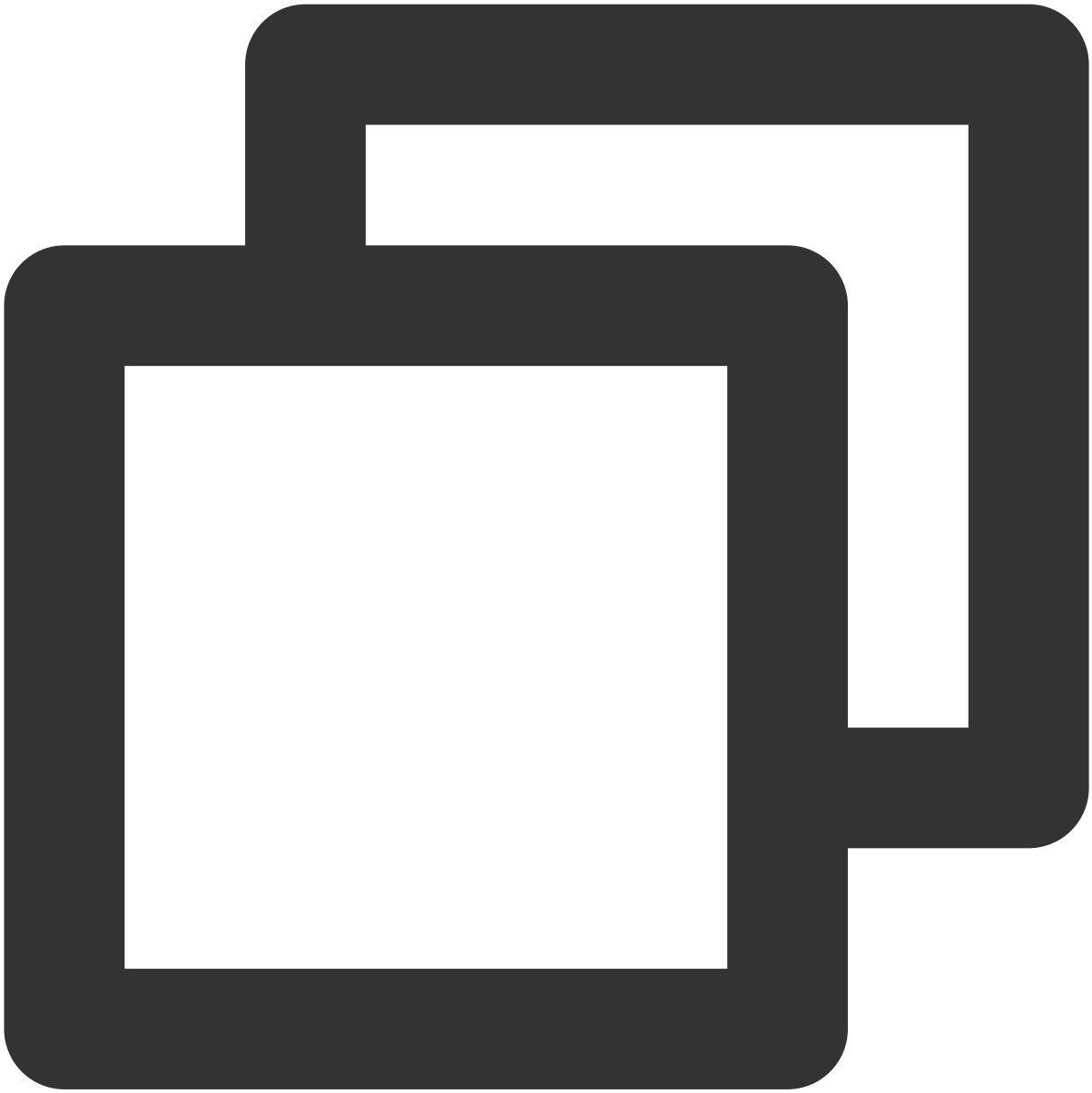

```
<Response>
    <Template>
        <Tag>Snapshot</Tag>
        <Name>TemplateName</Name>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <Snapshot>
            <Mode>Interval</Mode>
            <Width>1280</Width>
            <Height>960</Height>
```

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```
            <Start>0</Start>
            <TimeInterval>0.5</TimeInterval>
            <Count>10</Count>
            <SnapshotOutMode>OnlySprite</SnapshotOutMode>
            <SpriteSnapshotConfig>
                <Color>Aquamarine</Color>
                <Columns>3</Columns>
                <Lines>3</Lines>
            </SpriteSnapshotConfig>
        </Snapshot>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Tag	Response	Template tag: Snapshot	String
Name	Response	Template name	String
TemplateId	Response	Template ID	String
UpdateTime	Response	Update time	String
CreateTime	Response	Creation time	String
Snapshot	Response	Template parameter, which is the same as the `Snapshot` in the request body.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

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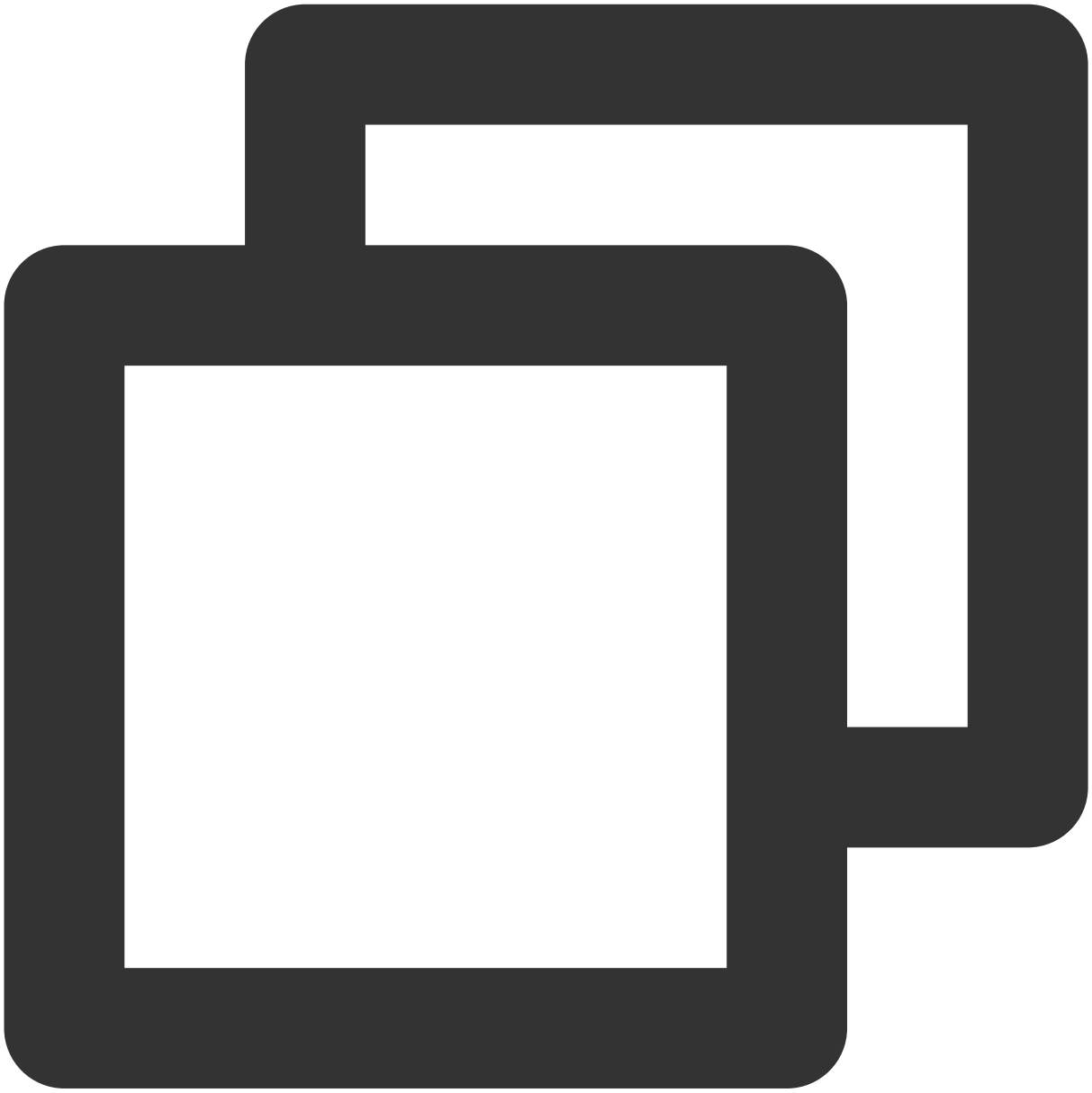
Samples

Request



```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml
```

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```
<Request>
    <Tag>Snapshot</Tag>
    <Name>TemplateName</Name>
    <Snapshot>
        <Mode>Interval</Mode>
        <Width>1280</Width>
        <Height>960</Height>
        <Start>0</Start>
        <TimeInterval>0.5</TimeInterval>
        <Count>10</Count>
        <SnapshotOutMode>OnlySprite</SnapshotOutMode>
        <SpriteSnapshotConfig>
            <Color>Aquamarine</Color>
            <Columns>3</Columns>
            <Lines>3</Lines>
        </SpriteSnapshotConfig>
    </Snapshot>
</Request>
```

Response

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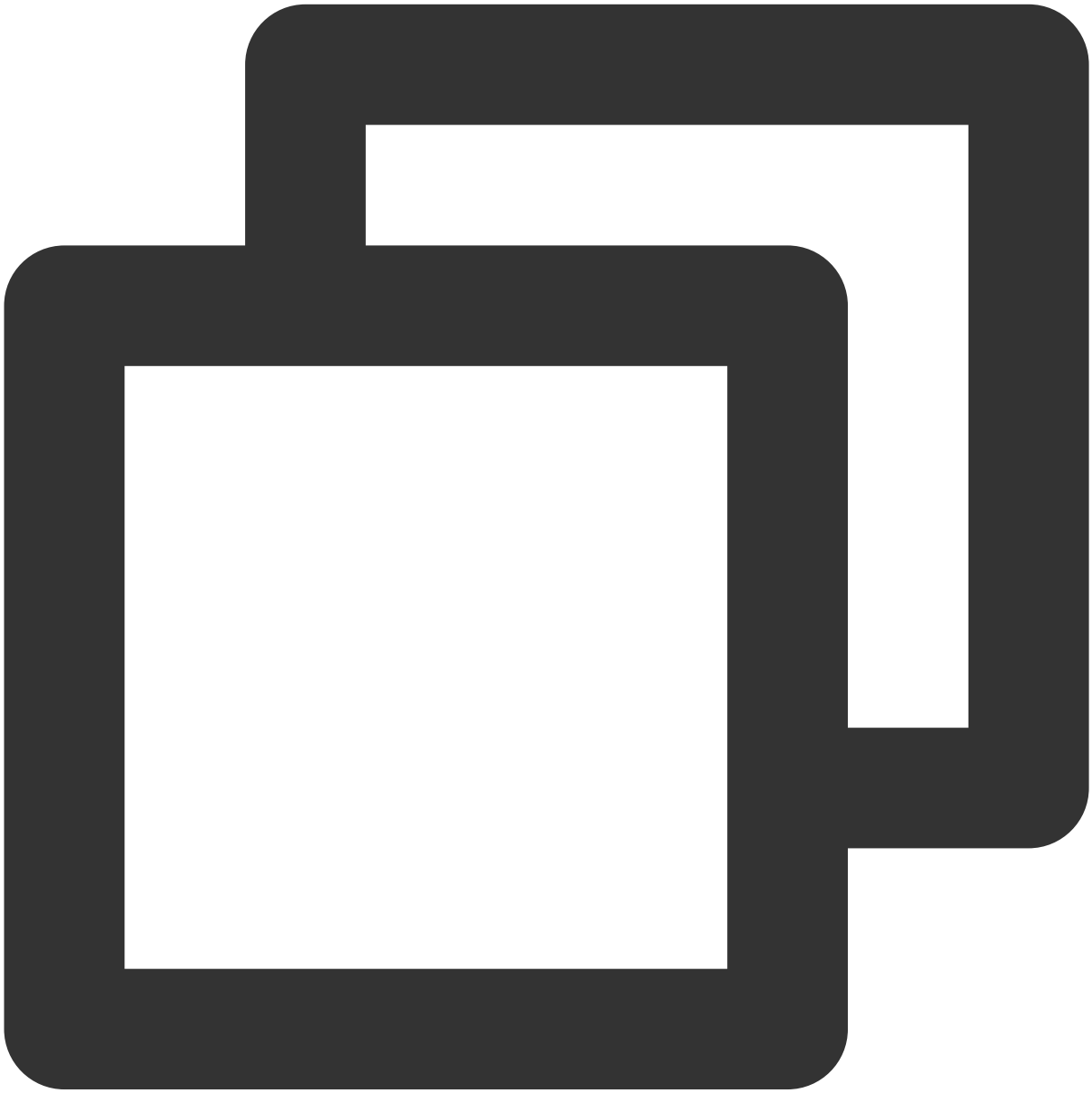

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <Template>
        <Tag>Snapshot</Tag>
```

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```
        <Name>TemplateName</Name>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <Snapshot>
            <Mode>Interval</Mode>
            <Width>1280</Width>
            <Height>960</Height>
            <Start>0</Start>
            <TimeInterval>0.5</TimeInterval>
            <Count>10</Count>
            <SnapshotOutMode>OnlySprite</SnapshotOutMode>
            <SpriteSnapshotConfig>
                <Color>Aquamarine</Color>
                <Columns>3</Columns>
                <Lines>3</Lines>
            </SpriteSnapshotConfig>
        </Snapshot>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Super Resolution Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a super resolution template.

Request

Sample request

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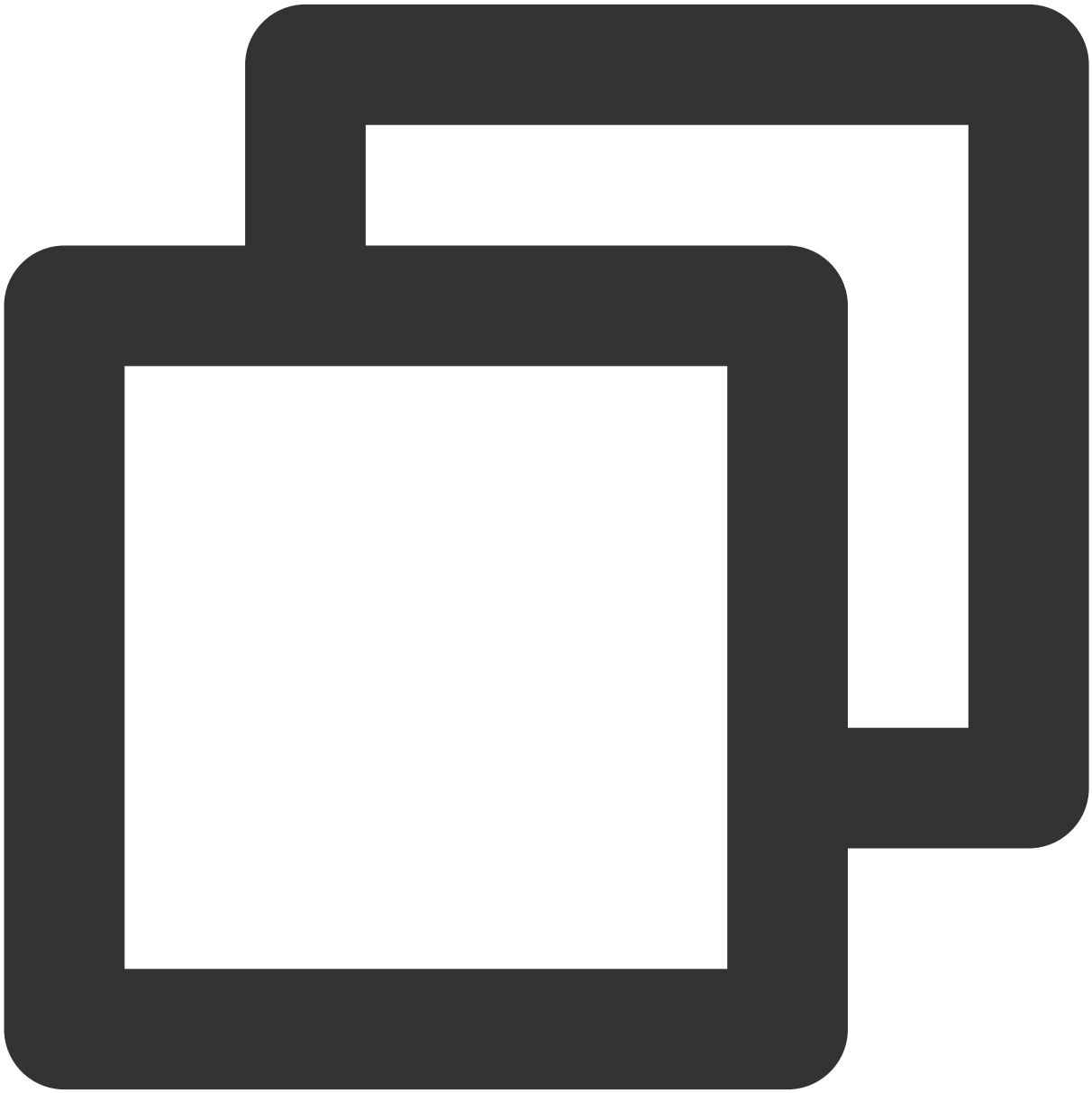

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

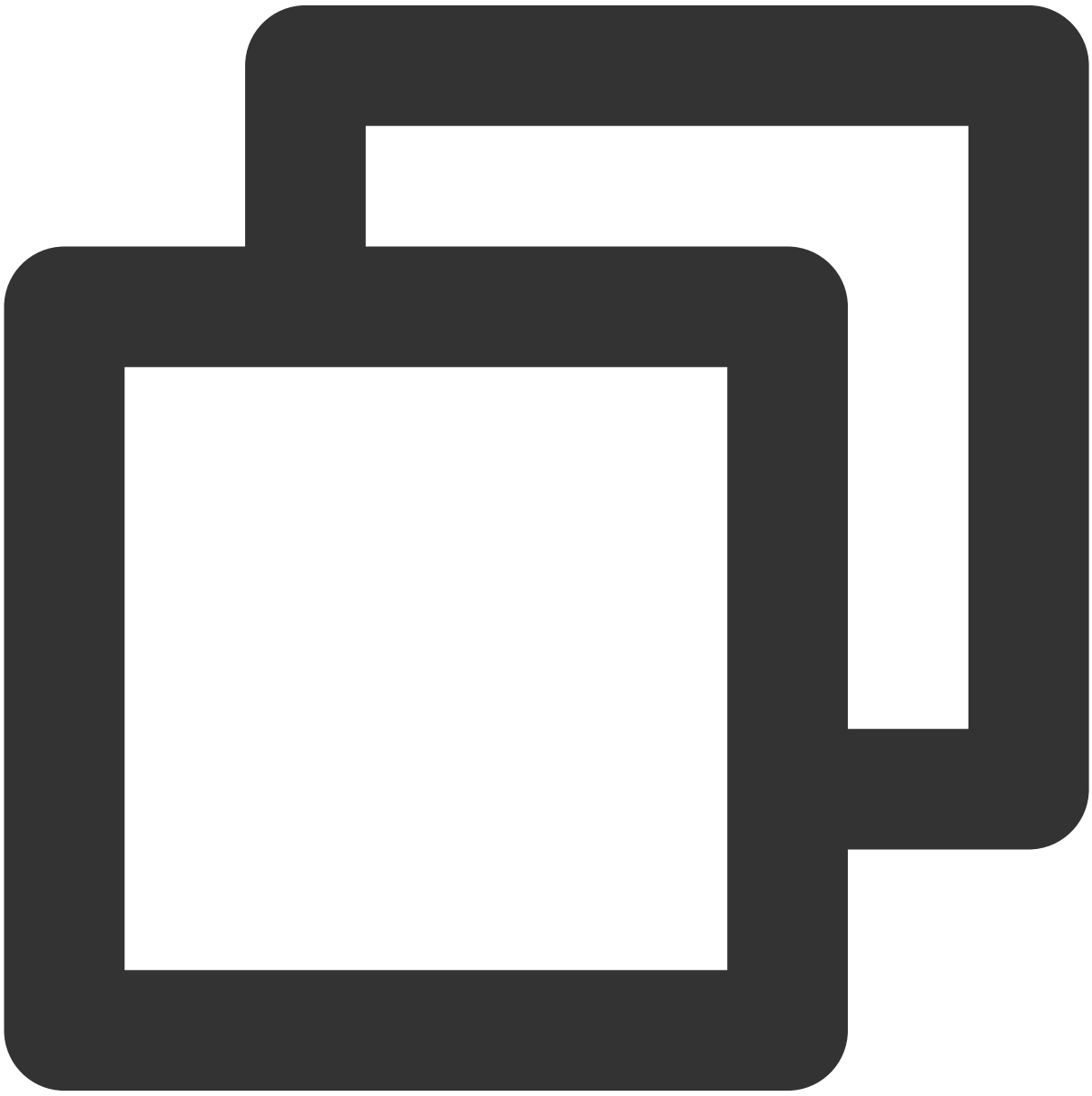
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>SuperResolution</Tag>
    <Name>TemplateName</Name>
    <Resolution>sdtohd</Resolution>
    <EnableScaleUp>true</EnableScaleUp>
    <Version>Enhance</Version>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Template tag: SuperResolution	String	Yes	None
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes	None
Resolution	Request	Resolution option	String	Yes	1. sdtohd: SD to HD 2. hdto4k: HD to 4K
EnableScaleUp	Request	Whether to enable automatic scaling, which is disabled by default.	String	No	true/false
Version	Request	Version. Default value: Base.	String	No	1. Base: Basic version 2. Enhance: Enhanced version

Response

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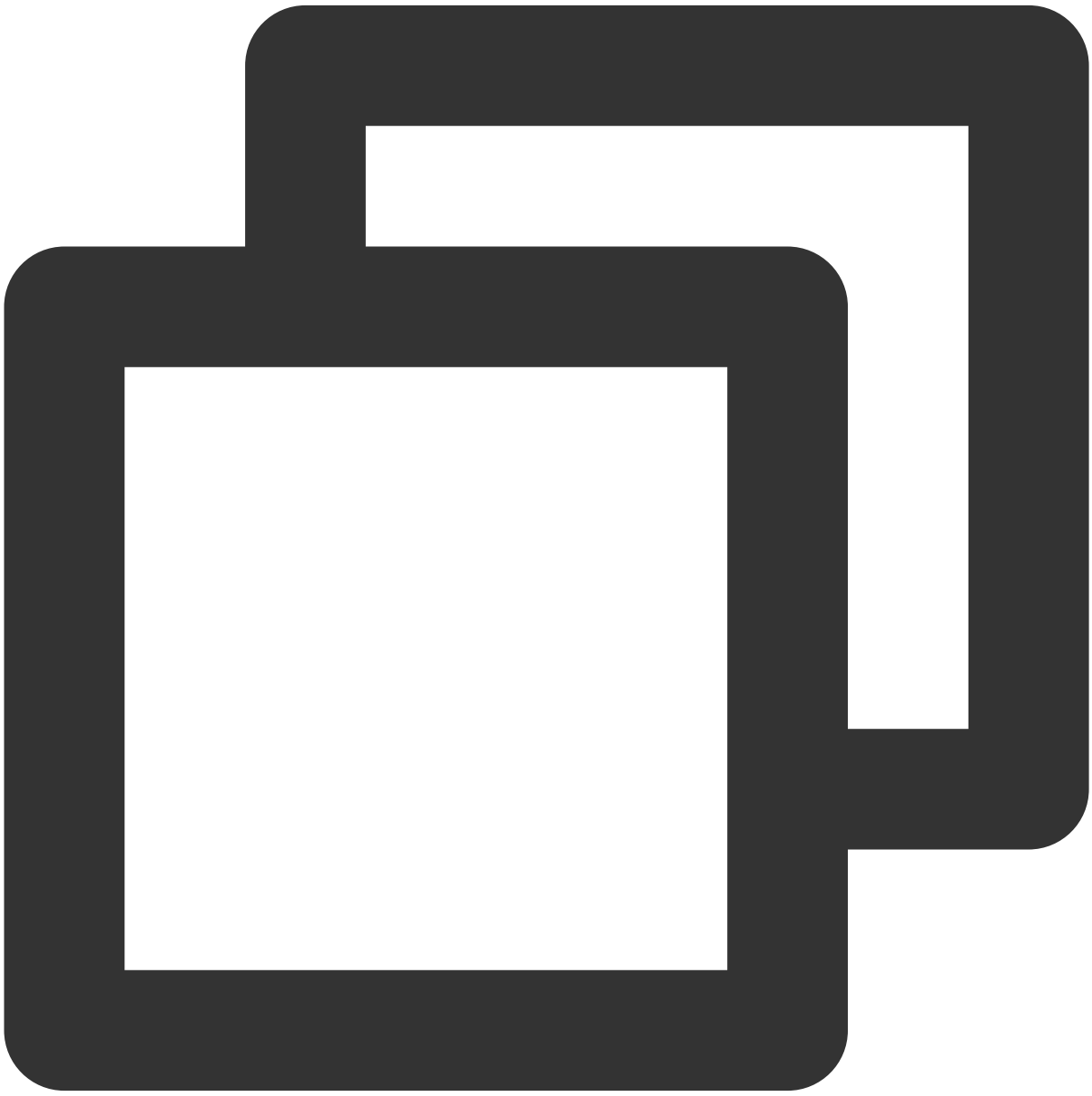
Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <Template>
        <Tag>SuperResolution</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SuperResolution>
            <Resolution>sdtohd</Resolution>
            <EnableScaleUp>true</EnableScaleUp>
            <Version>Enhance</Version>
        </SuperResolution>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String
Tag	Response.Template	Template tag: SuperResolution	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
SuperResolution	Response.Template	Template parameters	Container

`SuperResolution` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Resolution	Response.Template.SuperResolution	Same as `Request.Resolution`	String

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		in the request body.	
EnableScaleUp	Response.Template.SuperResolution	Same as `Request.EnableScaleUp` in the request body.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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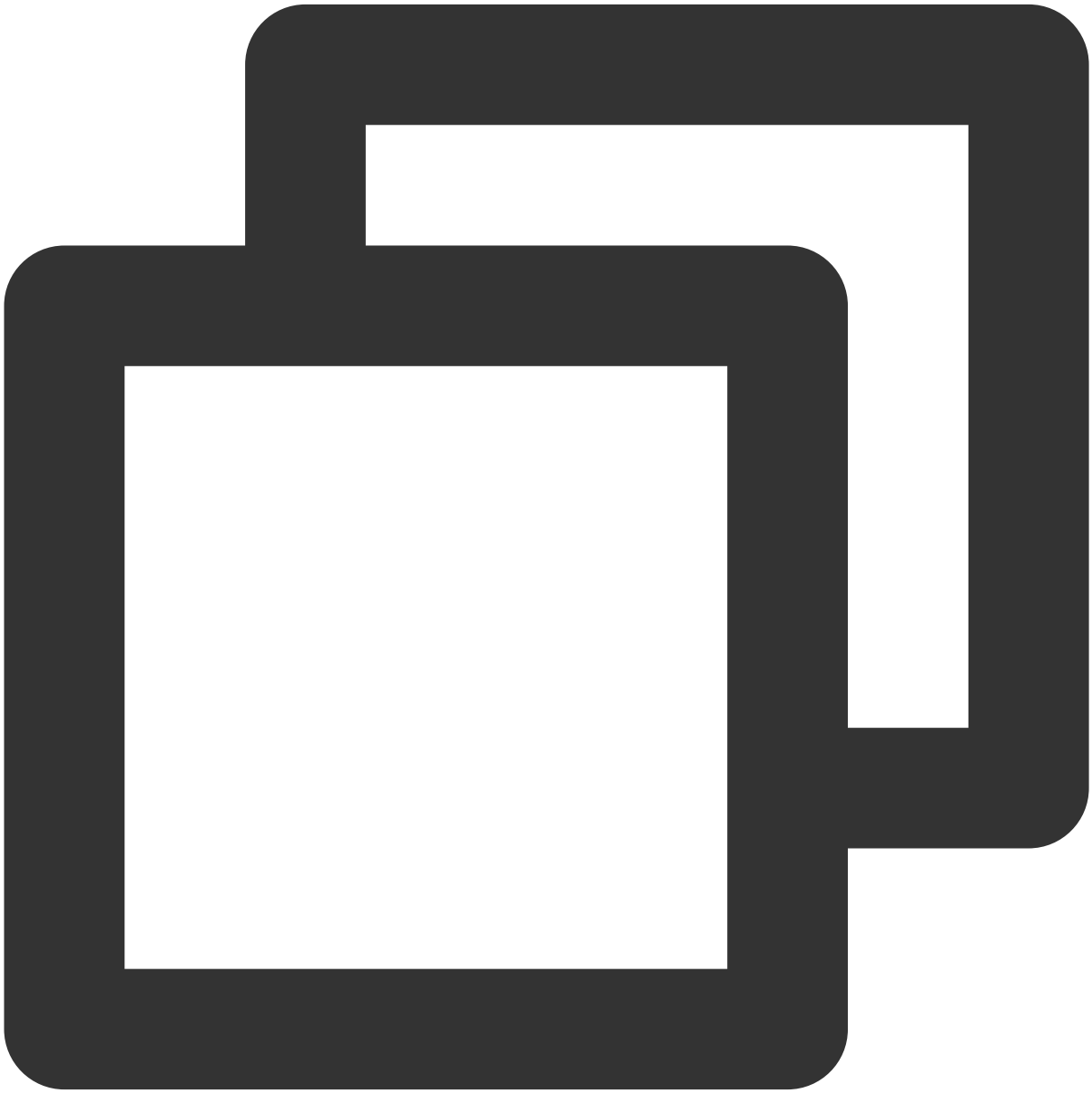

```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>SuperResolution</Tag>
    <Name>TemplateName</Name>
    <Resolution>sdtohd</Resolution>
    <EnableScaleUp>true</EnableScaleUp>
```

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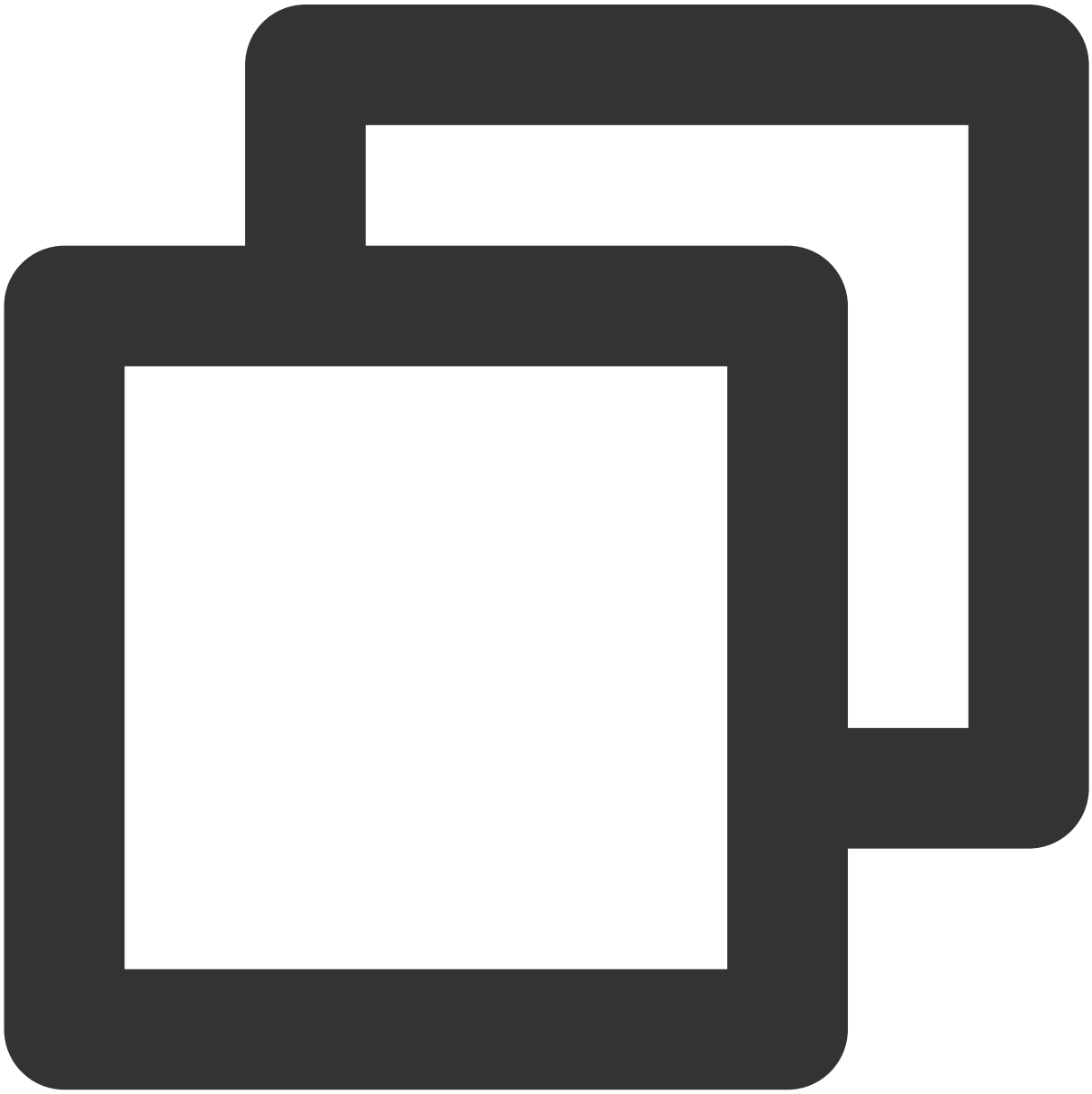
```
    <Version>Enhance</Version>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
```

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```
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>SuperResolution</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SuperResolution>
            <Resolution>sdtohd</Resolution>
            <EnableScaleUp>true</EnableScaleUp>
            <Version>Enhance</Version>
        </SuperResolution>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Audio/Video Transcoding Template

Last updated：2024-06-12 15:47:04

Overview

This API is used to create an audio/video transcoding template.

Request

Sample request

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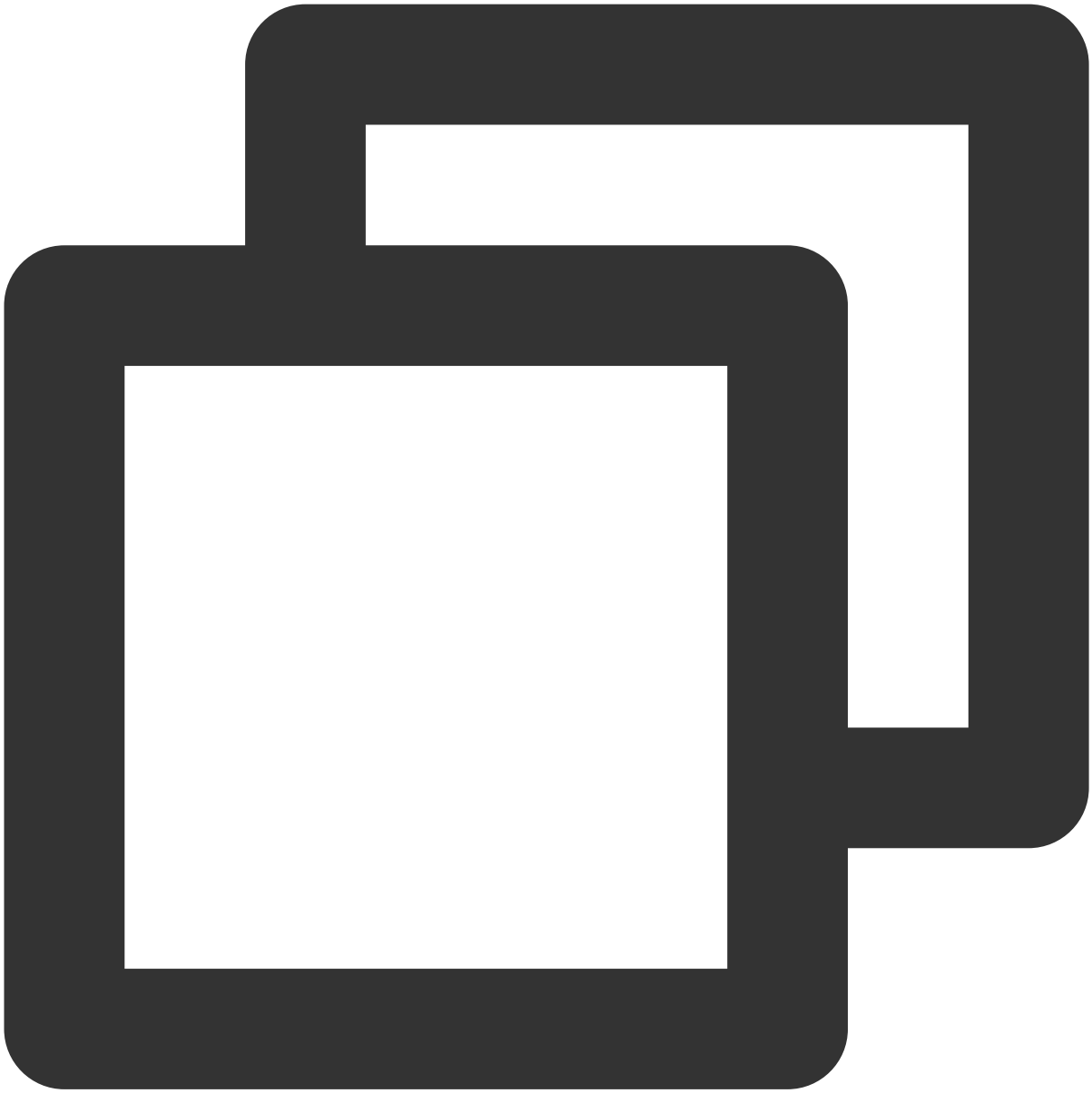

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (See Request Signature for details.)

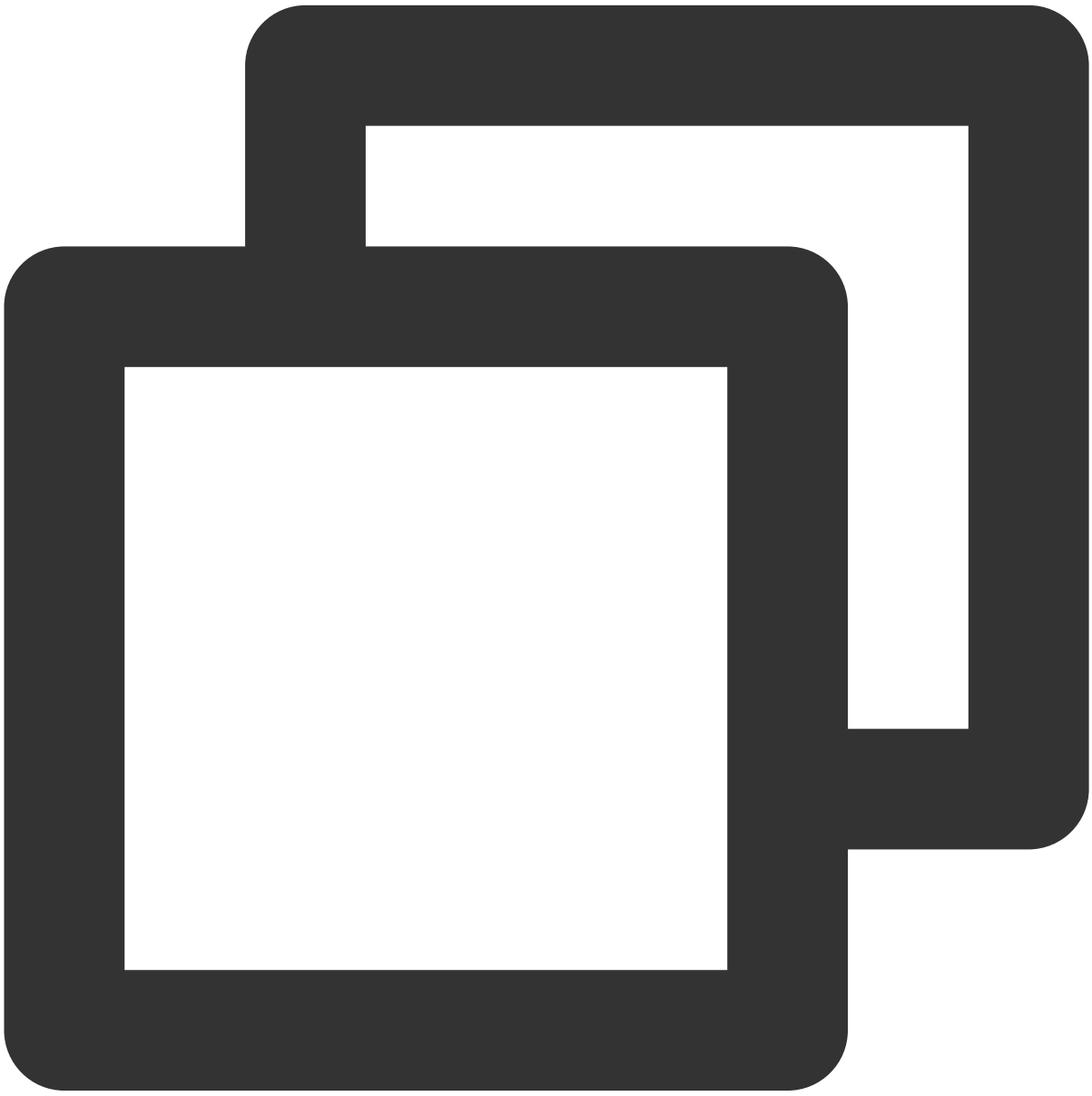
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Transcode</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Profile>high</Profile>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
        <Preset>medium</Preset>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </Audio>
    <TransConfig>
        <AdjDarMethod>scale</AdjDarMethod>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
    <AudioMixArray>
        <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix1.mp3</Audio
        <MixMode>Once</MixMode>
        <Replace>true</Replace>
        <EffectConfig>
            <EnableStartFadein>true</EnableStartFadein>
            <StartFadeinTime>3</StartFadeinTime>
            <EnableEndFadeout>false</EnableEndFadeout>
            <EndFadeoutTime>0</EndFadeoutTime>
            <EnableBgmFade>true</EnableBgmFade>
            <BgmFadeTime>1.7</BgmFadeTime>
        </EffectConfig>
    </AudioMixArray>
    <AudioMixArray>
        <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix2.mp3</Audio
        <MixMode>Once</MixMode>
        <Replace>true</Replace>
```

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```
        <EffectConfig>
            <EnableStartFadein>true</EnableStartFadein>
            <StartFadeinTime>3</StartFadeinTime>
            <EnableEndFadeout>false</EnableEndFadeout>
            <EndFadeoutTime>0</EndFadeoutTime>
            <EnableBgmFade>true</EnableBgmFade>
            <BgmFadeTime>1.7</BgmFadeTime>
        </EffectConfig>
    </AudioMixArray>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Task type: Transcode	String	Yes	None
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes	None
Container	Request	Container format	Container	Yes	None
Video	Request	Video information	Container	No	If `Video` is not passed in, the video information will be deleted.
TimeInterval	Request	Time interval	Container	No	None
Audio	Request	Audio information	Container	No	If `Audio` is not passed in, the audio information will be deleted.
TransConfig	Request	Transcoding configuration	Container	No	None
AudioMix	Request	Audio mix parameter as described in Structure.	Container	No	Valid if `Audio.Remove`

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					is `false`
AudioMixArray	Request	Up to two audio mix parameters as described in Structure.	Container array	No	Valid if `Audio.Remove` is `false`

`Container` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Format	Request.Container	Container format. See the following table for valid values.	String	Yes
ClipConfig	Request.Container	Segment configuration. This node will take effect only when `format` is `hls` or `dash`.	Container	No

`ClipConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Duration	Request.Container.ClipConfig	Segment duration. Default value: `5s`.	String	No

Audio/Video formats supported by different container formats are as follows:

Container	Audio Codecs	Video Codecs
mp4/hls/mkv	aac, mp3	H.264, H.265, AV1
hls/mkv	aac, mp3	H.264, H.265
ts/flv/avi/mov	aac, mp3	H.264
dash	aac	H.264
WebM	Vorbis, Opus	VP8, VP9, AV1
AAC	AAC	Not supported
MP3	MP3	Not supported

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FLAC	FLAC	Not supported
AMR	AMR	Not supported
adts	aac	Not supported
m4a	aac	Not supported
wav	pcm_s16le	Not supported

ideo has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Video	Codec format	String	No	H.264 If format is WebM, the default value is VP8.	H.264 H.265 VP8 VP9 AV1
Width	Request.Video	Width	String	No	Original video width	Value range: [128, 4096] Unit: px If only Width is set, Height is calculated according to the original video aspect ratio. This parameter must be an even number.
Height	Request.Video	Height	String	No	Original video height	Value range: [128, 4096] Unit: px If only Height is set, Width is calculated according to the original video aspect ratio.

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						This parameter must be an even number.
Fps	Request.Video	Frame rate	String	No	None	Value range: (0, 60] Unit: fps
Remove	Request.Video	Whether to delete the video stream	String	No	false	Valid values: true, false.
Profile	Request.Video	Encoding level	String	No	high	Valid values: baseline, main, high, auto. If Pixfmt is auto, this parameter can only be auto and will be changed to auto if set to other values. baseline: Suitable for mobile devices. main: Suitable for standard resolution devices. high: Suitable for high resolution devices. Only H.264 supports this parameter.
Bitrate	Request.Video	Bitrate of the video output file	String	No	None	Value range: [10, 50000] kbps auto indicates adaptive bitrate.
Crf	Request.Video	Bitrate, which is a quality	String	No	None	Value range: (0, 51] If Crf is set, the setting of Bitrate

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		control factor				will become invalid. If Bitrate is empty, 25 is used for this parameter by default.
Gop	Request.Video	Maximum number of frames between two keyframes	String	No	None	Value range: [1, 100000]
Preset	Request.Video	Video algorithm preset	String	No	If Codec is H.264, the default value is medium. If Codec is VP8, the default value is good. If Codec is AV1, the default value is 5.	Valid values for H.264: veryfast, fast, medium, slow, slower. Valid values for VP8: good, realtime. Valid values for AV1: 5 (recommend), 4. H.265 and VP9 don't support this parameter.
Bufsize	Request.Video	Buffer size	String	No	None	Value range: [1000, 128000] Unit: KB If Codec is VP8 or VP9, this parameter is not supported.
Maxrate	Request.Video	Peak video bitrate	String	No	None	Value range: [10, 50000] Unit: Kbps If Codec is VP8 or VP9, this

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						parameter is not supported.
Pixfmt	Request.Video	Video color format	String	No	None	Valid values for H.264: yuv420p, yuv422p, yuv444p, yuvj420p, yuvj422p, yuvj444p, auto Valid values for H.265: yuv420p, yuv420p10le, auto If Codec is VP8, VP9, or AV1, this parameter is not supported.
LongShortMode	Request.Video	Whether to use long short mode	String	No	false	Valid values: true, false. If Codec is VP8, VP9, or AV1, this parameter is not supported.
Rotate	Request.Video	Rotation angle	String	No	None	Value range: [0, 360) Unit: Degree

TimeInterval has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Start	Request.TimeInterval	Start time	String	No	0	Value range: [0, video duration] Unit: Second The float format is supported, accurate to the millisecond.
Duration	Request.TimeInterval	Duration	String	No	Original	Value range: [0,

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					video duration	video duration] Unit: Second The float format is supported, accurate to the millisecond.

Audio has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Audio	Codec format	String	No	aac If format is WebM, the default value is Vorbis. If format is wav, the default value is pcm_s16le.	Valid values: aac, mp3, flac, amr, Vorbis, opus, pcm_s16le.
Samplerate	Request.Audio	Sample rate	String	No	If Codec is opus, the default value is 48000.	Unit: Hz Valid values: 8000, 11025, 12000, 16000, 22050, 24000, 32000, 44100, 48000, 88200, 96000. Different container formats support different MP3 sample rates, as shown in the table below. If Codec is amr, the value can only be 8000. If Codec is opus, the value can be 8000,

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						16000, 24000, or 48000.
Bitrate	Request.Audio	Original audio bitrate	String	No	None	Unit: Kbps Value range: [8, 1000]
Channels	Request.Audio	Number of sound channels	String	No	None	If Codec is aac or flac, the value can be 1, 2, 4, 5, 6, or 8. If Codec is mp3 or opus, the value can only be 1 or 2. If Codec is Vorbis, the value can only be 2. If Codec is amr, the value can only be 1. If Codec is pcm_s16le, the value can only be 1 or 2. If Codec is dash, the value cannot be 8.
Remove	Request.Audio	Whether to delete the source audio stream	String	No	false	Valid values: true, false.
KeepTwoTracks	Request.Audio	Keep double audio track	String	No	false	Valid values: true, false. If Video.Codec is H.265, this parameter will not take effect.
SwitchTrack	Request.Audio	Switch the track	String	No	false	Valid values: true, false. If Video.Codec is

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						H.265, this parameter will not take effect.
SampleFormat	Request.Audio	Sampling bit width	String	No	None	If Codec is aac, the value can be fltp. If Codec is mp3, the value can be fltp, s16p, or s32p. If Codec is flac, the value can be s16, s32, s16p, or s32p. If Codec is amr, the value can be s16 or s16p. If Codec is opus, the value can be s16. If Codec is pcm_s16le, the value can be s16. If Codec is Vorbis, the value can be fltp. If Video.Codec is H.265, this parameter will not take effect.

Note:

Y indicates supported, and N indicates unsupported.

`Audio.Codec` supports sample rates as follows:

Audio.Codec	aac	amr	flac	opus	Vorbis	pcm_s16le	mp3
8000	Y	Y	Y	Y	Y	Y	Different sample rates are supported for different container formats.
11025	Y	N	Y	N	Y	Y	
12000	Y	N	Y	N	Y	Y	

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16000	Y	N	Y	Y	Y	Y
22050	Y	N	Y	N	Y	Y
24000	Y	N	Y	Y	Y	Y
32,000	Y	N	Y	N	Y	Y
44100	Y	N	Y	N	Y	Y
48000	Y	N	Y	Y	Y	Y
88200	Y	N	Y	N	Y	Y
96000	Y	N	Y	N	Y	Y

If `Audio.Codec` is `mp3` , `Container.Format` supports sample rates as follows:

Container Format/Audio Sample Rate	8000	11025	12000	16000	22050	24000	32000	44100	4
flv	N	N	N	N	Y	N	N	Y	N
mp4	N	N	N	Y	Y	Y	Y	Y	Y
hls/ts/mp3/mkv/avi/mov	Y	Y	Y	Y	Y	Y	Y	Y	Y

`TransConfig`
has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Ty
AdjDarMethod	Request.TransConfig	Resolution adjustment method	Str
IsCheckReso	Request.TransConfig	Whether to check the resolution	Str

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ResoAdjMethod	Request.TransConfig	Resolution adjustment method	Str
IsCheckVideoBitrate	Request.TransConfig	Whether to check the video bitrate	Str
VideoBitrateAdjMethod	Request.TransConfig	Video bitrate adjustment method	Str
IsCheckAudioBitrate	Request.TransConfig	Whether to check the audio bitrate	Str
AudioBitrateAdjMethod	Request.TransConfig	Audio bitrate adjustment method	Str

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IsCheckVideoFps	Request.TransConfig	Whether to check the video frame rate	Str
VideoFpsAdjMethod	Request.TransConfig	Video frame rate adjustment method	Str
DeleteMetadata	Request.TransConfig	Whether to delete metadata from the file	Str
IsHdr2Sdr	Request.TransConfig	Whether to enable HDR-to-SDR conversion	Str
TranscodeIndex	Request.TransConfig	The stream number to be processed, which corresponds to `Response.MediaInfo.Stream.Video.Index` and `Response.MediaInfo.Stream.Audio.Index` in the media information. For more information, see Getting Media File Information.	Str
HlsEncrypt	Request.TransConfig	HLS encryption configuration	Co
DashEncrypt	Request.TransConfig	DASH encryption configuration	Co

The `AdjDarMethod` parameter is illustrated as follows:

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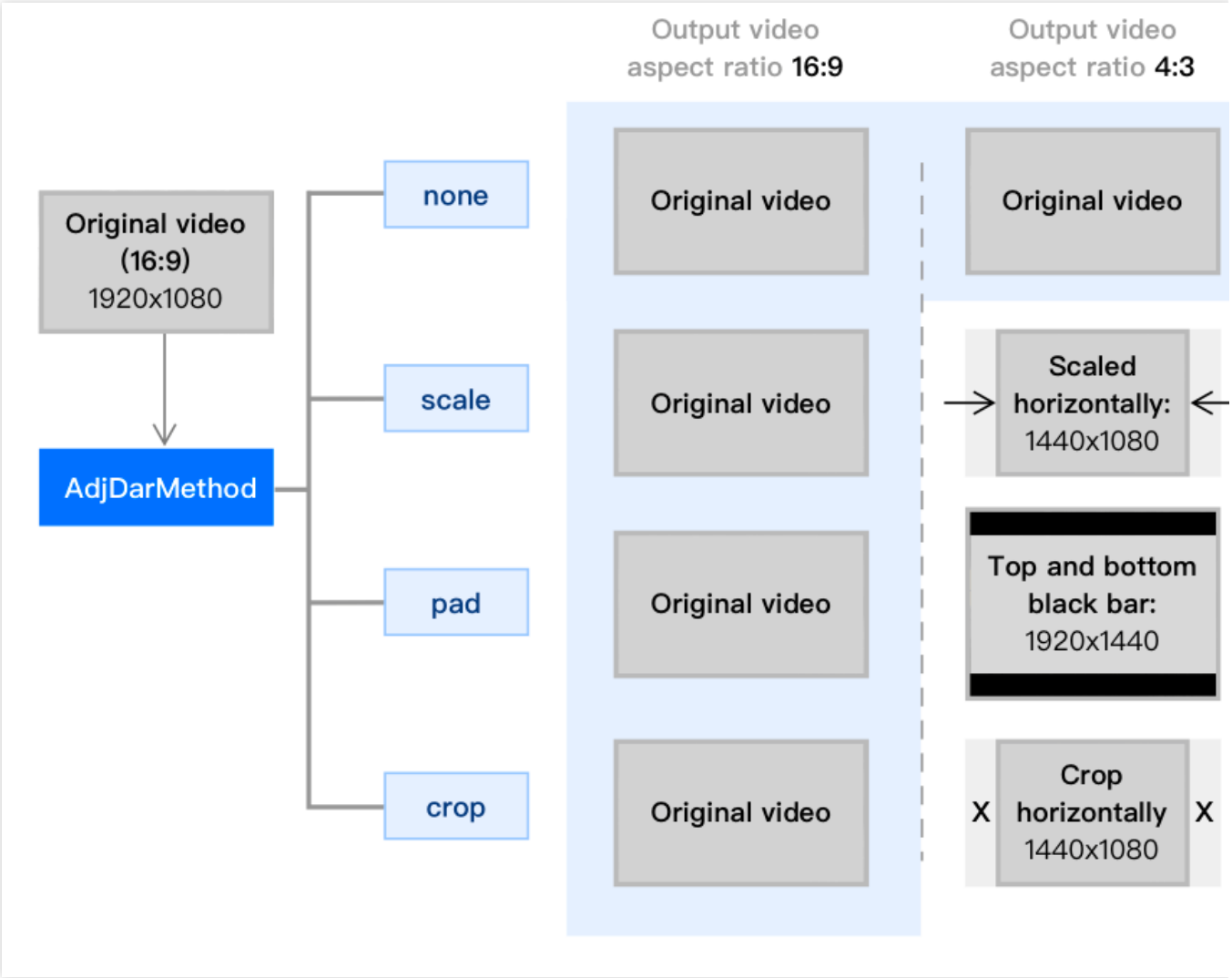

`HlsEncrypt` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constrai
IsHlsEncrypt	Request.TransConfig.HlsEncrypt	Whether to enable HLS encryption	String	No	false	Valid val `false` Encryptic only whe `Conta` is `hls`
UriKey	Request.TransConfig.HlsEncrypt	HLS encryption key	String	No	None	This para effect onl `IsHlsE` `true` .

`DashEncrypt` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constrain
IsEncrypt	Request.TransConfig.DashEncrypt	Whether to enable DASH encryption	String	No	false	Valid valu `false` Encryptio only wher `Contai` is `dash`
UriKey	Request.TransConfig.DashEncrypt	DASH encryption key	String	No	None	This para effect onl `IsEncr` `true` .

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: `Custom` or	String

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		`Official`	
Tag	Response.Template	Task type: Transcode	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
TransTpl	Response.Template	Template parameters	Container

`TransTpl` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TimeInterval	Response.Template.TransTpl	Same as `Request.TimeInterval` in the request body.	Container
Container	Response.Template.TransTpl	Same as `Request.Container` in the request body.	Container
Video	Response.Template.TransTpl	Same as `Request.Video` in the request body.	Container
Audio	Response.Template.TransTpl	Same as `Request.Audio` in the request body.	Container
TransConfig	Response.Template.TransTpl	Same as `Request.TransConfig` in the request body.	Container
AudioMix	Response.Template.TransTpl	Same as `Request.AudioMix` in the request body.	Container
AudioMixArray	Response.Template.TransTpl	Same as `Request.AudioMixArray` in the request body.	Container array

Error codes

No special error message will be returned for this request. For the common error messages, please see Error Codes.

Examples

Request

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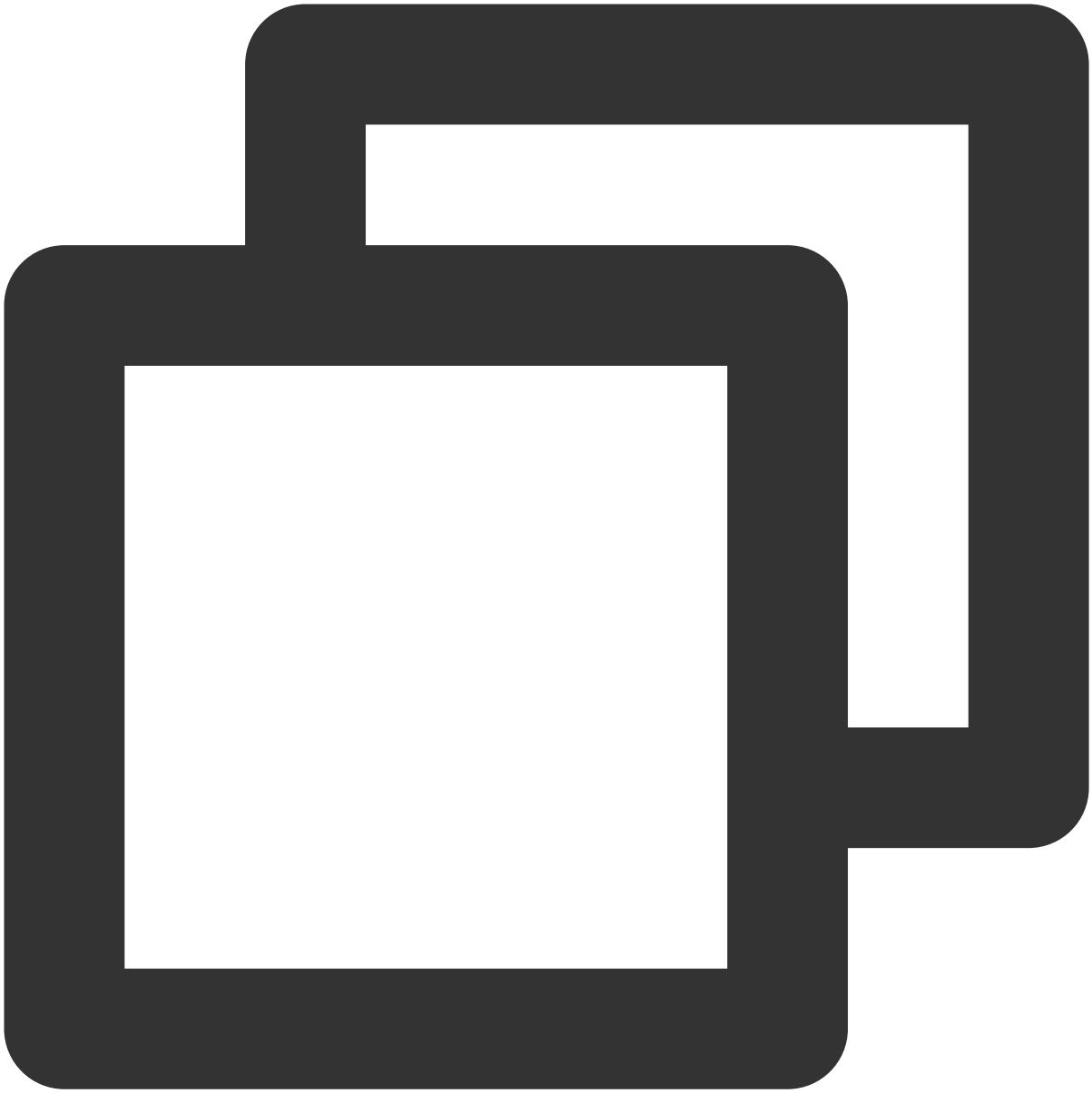

```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>Transcode</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mp4</Format>
```

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```
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Profile>high</Profile>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
        <Preset>medium</Preset>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </Audio>
    <TransConfig>
        <AdjDarMethod>scale</AdjDarMethod>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
    <AudioMixArray>
        <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix1.mp3</Audio
        <MixMode>Once</MixMode>
        <Replace>true</Replace>
        <EffectConfig>
            <EnableStartFadein>true</EnableStartFadein>
            <StartFadeinTime>3</StartFadeinTime>
            <EnableEndFadeout>false</EnableEndFadeout>
            <EndFadeoutTime>0</EndFadeoutTime>
            <EnableBgmFade>true</EnableBgmFade>
            <BgmFadeTime>1.7</BgmFadeTime>
        </EffectConfig>
    </AudioMixArray>
    <AudioMixArray>
        <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix2.mp3</Audio
        <MixMode>Once</MixMode>
        <Replace>true</Replace>
        <EffectConfig>
            <EnableStartFadein>true</EnableStartFadein>
            <StartFadeinTime>3</StartFadeinTime>
            <EnableEndFadeout>false</EnableEndFadeout>
            <EndFadeoutTime>0</EndFadeoutTime>
            <EnableBgmFade>true</EnableBgmFade>
```

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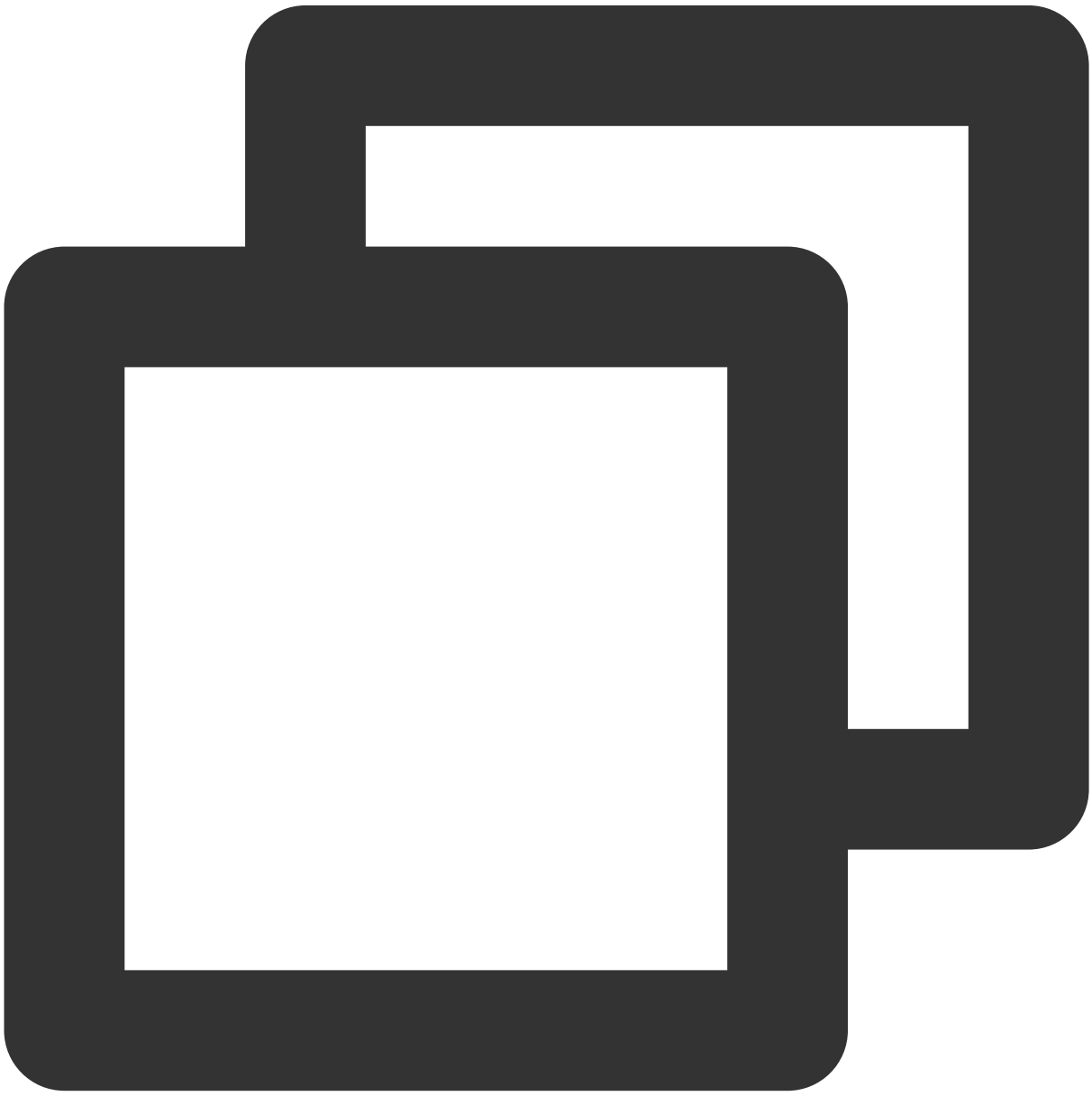
```
            <BgmFadeTime>1.7</BgmFadeTime>
        </EffectConfig>
    </AudioMixArray>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
```

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```
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>Transcode</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <Container>
            <Format>mp4</Format>
        </Container>
        <Video>
            <Codec>H.264</Codec>
            <Profile>high</Profile>
            <Bitrate>1000</Bitrate>
            <Width>1280</Width>
            <Fps>30</Fps>
            <Preset>medium</Preset>
        </Video>
        <Audio>
            <Codec>aac</Codec>
            <Samplerate>44100</Samplerate>
            <Bitrate>128</Bitrate>
            <Channels>4</Channels>
        </Audio>
        <TransConfig>
            <AdjDarMethod>scale</AdjDarMethod>
            <IsCheckReso>false</IsCheckReso>
            <ResoAdjMethod>1</ResoAdjMethod>
        </TransConfig>
        <TimeInterval>
            <Start>0</Start>
            <Duration>60</Duration>
        </TimeInterval>
        <AudioMixArray>
            <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix1.mp3</A
            <MixMode>Once</MixMode>
            <Replace>true</Replace>
            <EffectConfig>
                <EnableStartFadein>true</EnableStartFadein>
                <StartFadeinTime>3</StartFadeinTime>
                <EnableEndFadeout>false</EnableEndFadeout>
                <EndFadeoutTime>0</EndFadeoutTime>
                <EnableBgmFade>true</EnableBgmFade>
```

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```
                <BgmFadeTime>1.7</BgmFadeTime>
            </EffectConfig>
        </AudioMixArray>
        <AudioMixArray>
            <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix2.mp3</A
            <MixMode>Once</MixMode>
            <Replace>true</Replace>
            <EffectConfig>
                <EnableStartFadein>true</EnableStartFadein>
                <StartFadeinTime>3</StartFadeinTime>
                <EnableEndFadeout>false</EnableEndFadeout>
                <EndFadeoutTime>0</EndFadeoutTime>
                <EnableBgmFade>true</EnableBgmFade>
                <BgmFadeTime>1.7</BgmFadeTime>
            </EffectConfig>
        </AudioMixArray>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Professional Transcoding Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a professional transcoding template.

Request

Sample request

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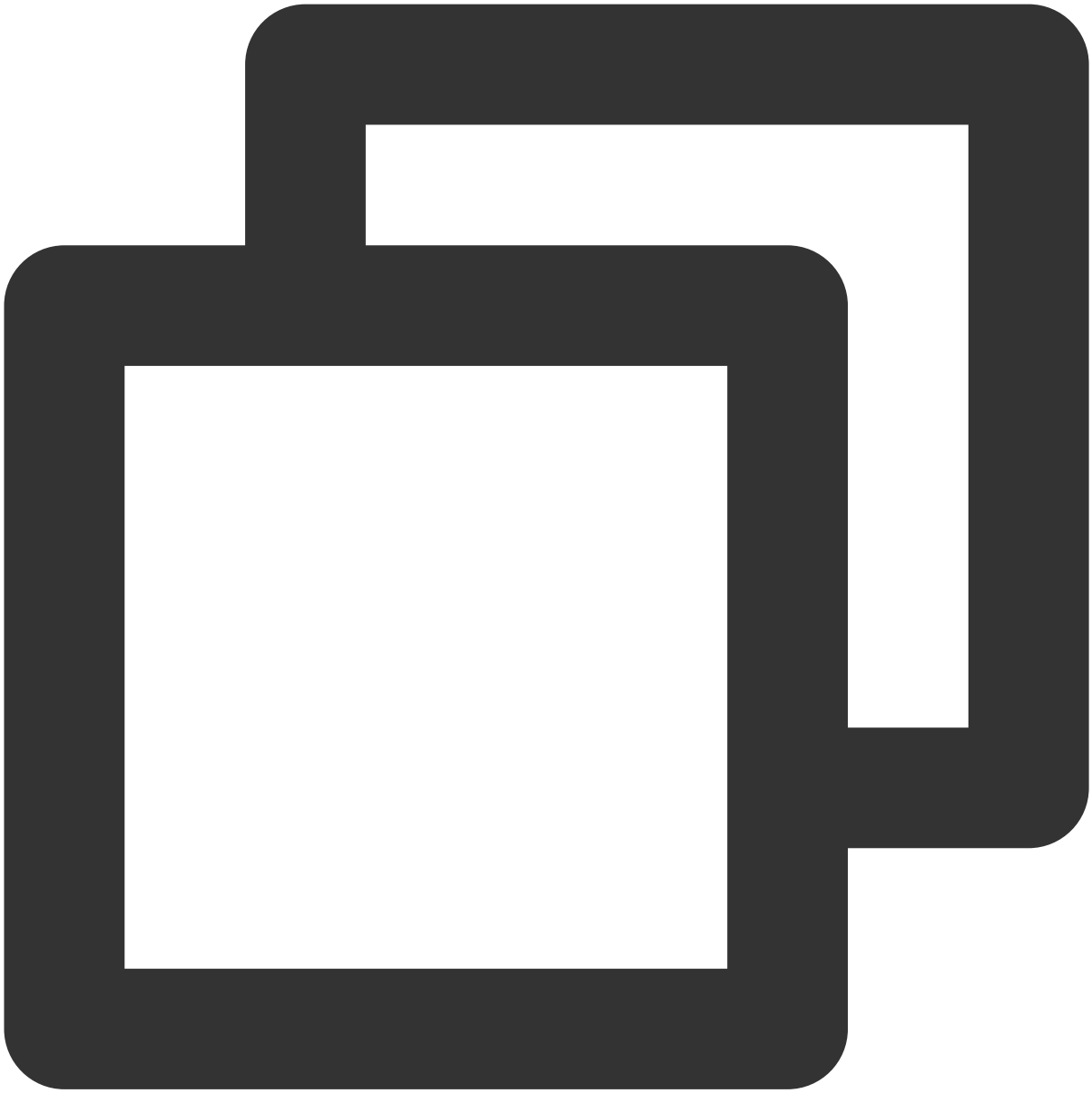

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

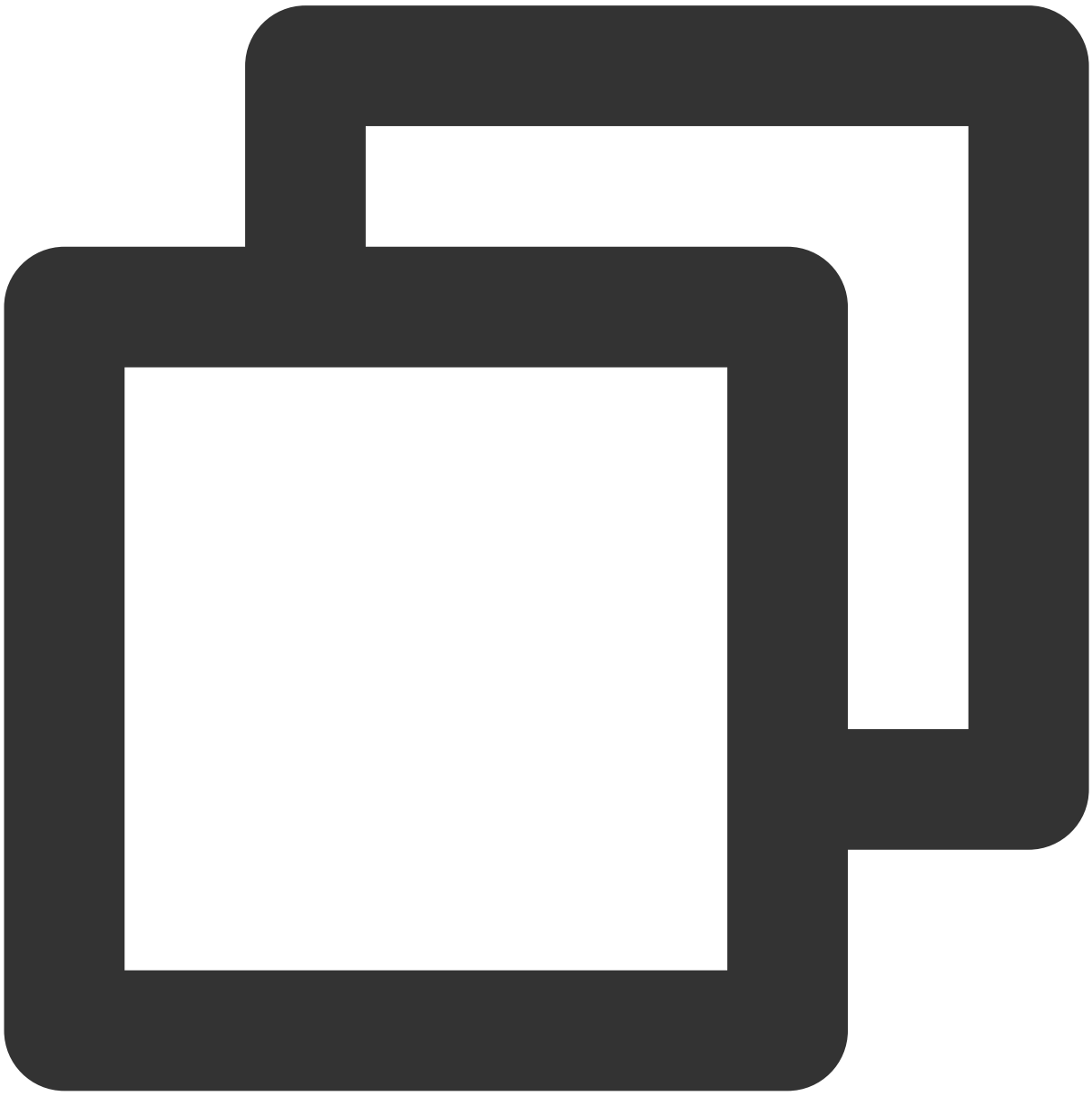
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>TranscodePro</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mxf</Format>
    </Container>
    <Video>
        <Codec>xavc</Codec>
        <Profile>XAVC-HD_422_10bit</Profile>
        <Width>1920</Width>
        <Height>1080</Height>
        <Interlaced>true</Interlaced>
        <Fps>30000/1001</Fps>
        <Bitrate>50000</Bitrate>
    </Video>
    <Audio>
        <Codec>pcm_s24le</Codec>
    </Audio>
    <TransConfig>
        <AdjDarMethod>scale</AdjDarMethod>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Template tag: TranscodePro	String	Yes	None

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Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes	None
Container	Request	Container format	Container	Yes	None
Video	Request	Video information	Container	Yes	None
TimeInterval	Request	Time interval	Container	No	None
Audio	Request	Audio information	Container	No	If `Audio` is not passed in, the audio information will be deleted.
TransConfig	Request	Transcoding configuration	Container	No	None

`Container`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Format	Request.Container	Container format. Valid values: `mxf`, `mov`, `mkv`.	String	Yes

Audio/Video formats supported by different container formats are as follows:

Container	Audio Codecs	Video Codecs
mxf	pcm_s24le	xavc
mov, mkv	aac, mp3	apple_prores

`Video`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Video	Codec format	String	Yes	None	xavc, apple_prores

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Profile	Request.Video	Video algorithm profile	String	Yes	None	See the following table for valid values.
Width	Request.Video	Width	String	Yes	None	See the following table for valid values.
Height	Request.Video	Height	String	Yes	None	See the following table for valid values.
Interlaced	Request.Video	Field mode	String	Yes	None	See the following table for valid values.
Fps	Request.Video	Frame rate	String	Yes	None	See the following table for valid values.
Bitrate	Request.Video	Bitrate of the video output file	String	No	None	See the following table for valid values.
Rotate	Request.Video	Rotation angle	String	No	None	1. Value range: [0, 360) 2. Unit: Degree

Video Parameter Constraint Table:

Note: '-' indicates empty. The valid values of bitrate correspond to the valid values of frame rate numerically.

If `Video.Codec` is `xavc` :

Profile	Width	Height	Interlaced	Fps	Bitrate (Kbps)
XAVC-HD_intra_420_10bit_class50	1440	1080	true	1. 25 2. 30000/1001	-
XAVC-HD_intra_420_10bit_class50	1440	1080	false	1. 25 2. 24000/1001 3. 30000/1001	-
XAVC-HD_intra_422_10bit_class100	1280	720	false	1. 50 2. 60000/1001	-
XAVC-HD_intra_422_10bit_class100	1920	1080	true	1. 25 2. 30000/1001	-

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XAVC-HD_intra_422_10bit_class100	1920	1080	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	-
XAVC-HD_intra_422_10bit_class200	1920	1080	true	1. 25 2. 30000/1001	-
XAVC-HD_intra_422_10bit_class200	1920	1080	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	-
XAVC-4K_intra_422_10bit_class100	2048	1080	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	-
XAVC-4K_intra_422_10bit_class300	3840	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	-
XAVC-4K_intra_422_10bit_class300	4096	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	-
XAVC-4K_intra_422_10bit_class480	3840	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	-
XAVC-4K_intra_422_10bit_class480	4096	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	-
XAVC-4K_intra_422_10bit	2048	1080	false	1. 25	1. 93000

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				2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	2. 185000 3. 89000 4. 111000 5. 222000
XAVC-4K_intra_422_10bit	3840	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	1. 250000 or 400000 2. 500000 or 800000 3. 240000 or 384000 4. 300000 or 480000 5. 600000 or 960000
XAVC-4K_intra_422_10bit	4096	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	1. 250000 or 400000 2. 500000 or 800000 3. 240000 or 384000 4. 300000 or 480000 5. 600000 or 960000
XAVC-HD_422_10bit	1280	720	false	1. 50 2. 60000/1001	1. 50000 2. 50000
XAVC-HD_422_10bit	1920	1080	true	1. 25 2. 30000/1001	1. 25000, 35000, or 50000 2. 25000, 35000, or 50000
XAVC-HD_422_10bit	1920	1080	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	1. 25000, 35000, or 50000 2. 35000 or 50000 3. 25000, 35000, or 50000 4. 25000, 35000, or 50000 5. 35000 or 50000

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XAVC-4K_422_10bit	3840	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	1. 100000, 140000, or 200000 2. 140000 or 200000 3. 100000, 140000, or 200000 4. 100000, 140000, or 200000 5. 140000 or 200000
XAVC-4K_420_8bit	3840	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	1. 188000 2. 300000 3. 188000 4. 188000 5. 300000

If `Video.Codec` is `apple_prores`:

Profile
1.ProRes_422_Proxy 2.ProRes_422_LT 3.ProRes_422 4.ProRes_422_HQ 5.ProRes_4444 6.ProRes_4444_XQ 7.ProRes_4444_alpha 8.ProRes_4444_XQ_alpha

Width	Height	Interlaced	Fps	Bitrate (Kbps)
720	486	false	1. 24000/1001 2. 30000/1001	Value range: [2000,3000000]
720	486	true	1. 60000/1001	Value range: [2000,3000000]
720	576	false	1. 25	Value range: [2000,3000000]
720	576	true	1. 50	Value range:

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				[2000,3000000]
960	720	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]
1280	720	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]
1280	1080	false	1. 24000/1001 2. 30000/1001	Value range: [2000,3000000]
1280	1080	true	1. 60000/1001	Value range: [2000,3000000]
1440	1080	false	1. 24000/1001 2. 25 3. 30000/1001	Value range: [2000,3000000]
1440	1080	true	1. 50 2. 60000/1001	Value range: [2000,3000000]
1920	1080	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]
1920	1080	true	1. 50 2. 60000/1001	Value range: [2000,3000000]
2048	1080	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]
2048	1556	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]
3840	2160	false	1. 25 2. 50 3. 24000/1001	Value range: [2000,3000000]

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			4. 30000/1001 5. 60000/1001	
4096	2160	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]
5120	2700	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]
6144	3240	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]
8192	4320	false	1. 25 2. 50 3. 24000/1001 4. 30000/1001 5. 60000/1001	Value range: [2000,3000000]

`TimeInterval`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Start	Request.TimeInterval	Start time	String	No	0	Value range: [0, video duration] Unit: Second The `float` format is supported, accurate to the millisecond.
Duration	Request.TimeInterval	Duration	String	No	Original video duration	Value range: [0, video duration] Unit: Second

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						The `float` format is supported, accurate to the millisecond.

`Audio`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Audio	Codec format	String	Yes	None	pcm_s24le, aac, mp3
Remove	Request.Audio	Whether to delete the source audio stream	String	No	false	Valid values: `true`, `false`.

`TransConfig`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constrain
AdjDarMethod	Request.TransConfig	Resolution adjustment method	String	No	none	Valid valu `crop`, If the aspe output vid that of the resolution according
IsCheckReso	Request.TransConfig	Whether to check the resolution	String	No	false	Valid valu `false` If the valu transcodi based on
ResoAdjMethod	Request.TransConfig	Resolution adjustment method	String	No	0	Valid valu indicates

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						video resc indicates t transcodir This para effect only `IsChec` `true`.
IsCheckVideoBitrate	Request.TransConfig	Whether to check the video bitrate	String	No	false	Valid valu `false` If the valu transcodir based on
VideoBitrateAdjMethod	Request.TransConfig	Video bitrate adjustment method	String	No	0	Valid valu When the higher bitr video, `0` the origina `1` indic transcodir This para effect only `IsChec` is `true`
IsCheckAudioBitrate	Request.TransConfig	Whether to check the audio bitrate	String	No	false	Valid valu `false` If the valu transcodir based on
AudioBitrateAdjMethod	Request.TransConfig	Audio bitrate adjustment method	String	No	0	Valid valu When the higher bitr audio, `0` the origina `1` indic transcodir This para effect only `IsChec` is `true`
IsCheckVideoFps	Request.TransConfig	Whether to	String	No	false	Valid valu

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		check the video frame rate				`false` If the valu transcodir based on
VideoFpsAdjMethod	Request.TransConfig	Video frame rate adjustment method	String	No	0	Valid valu When the higher frai input vide use the or rate, and return the message. This parai effect only `IsChec` `true`.
DeleteMetadata	Request.TransConfig	Whether to delete metadata from the file	String	No	false	Valid valu `false` If the valu source file retained.
IsHdr2Sdr	Request.TransConfig	Whether to enable HDR-to-SDR conversion	String	No	false	true/false

The `AdjDarMethod` parameter is illustrated as follows:

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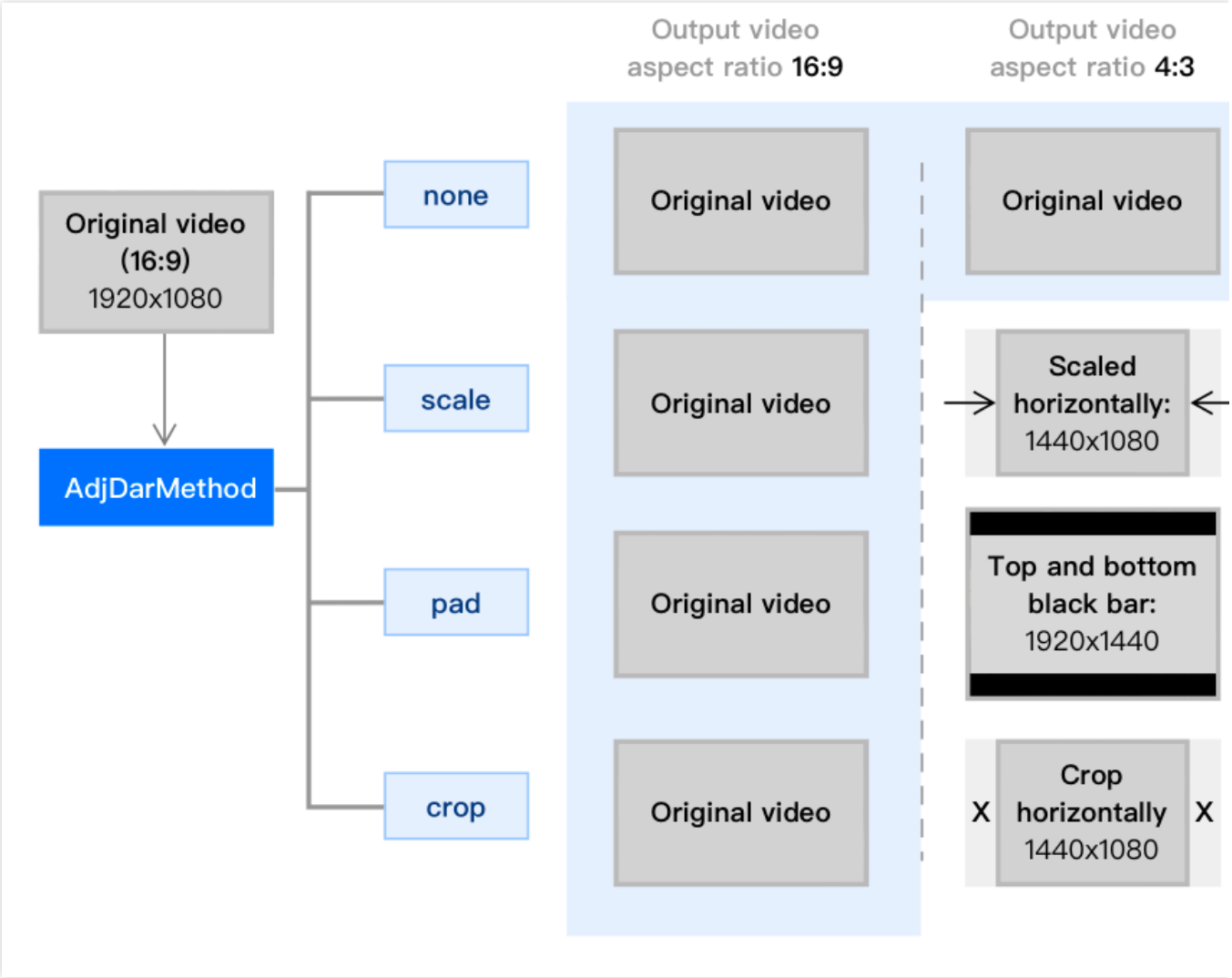

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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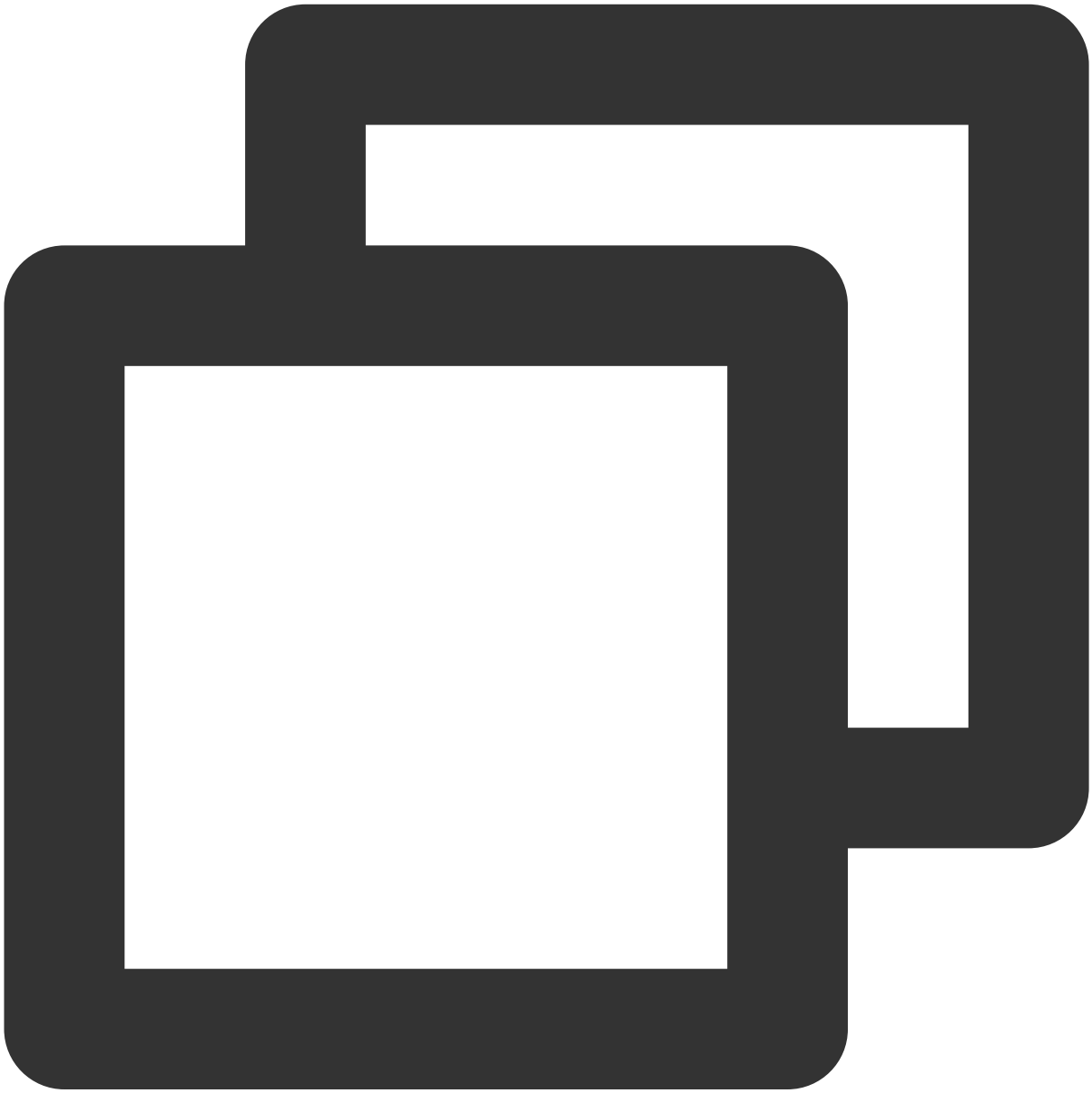

```
<Response>
    <Template>
        <Tag>TranscodePro</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <TransProTpl>
            <Container>
                <Format>mxf</Format>
            </Container>
```

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```
            <Video>
                <Codec>xavc</Codec>
                <Profile>XAVC-HD_422_10bit</Profile>
                <Width>1920</Width>
                <Height>1080</Height>
                <Interlaced>true</Interlaced>
                <Fps>30000/1001</Fps>
                <Bitrate>50000</Bitrate>
            </Video>
            <Audio>
                <Codec>pcm_s24le</Codec>
            </Audio>
            <TransConfig>
                <AdjDarMethod>scale</AdjDarMethod>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </TransProTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String

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Tag	Response.Template	Template tag: TranscodePro	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
TransProTpl	Response.Template	Template parameters	Container

`TransProTpl` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TimeInterval	Response.Template.TransProTpl	Same as `Request.TimeInterval` in the request body.	Container
Container	Response.Template.TransProTpl	Same as `Request.Container` in the request body.	Container
Video	Response.Template.TransProTpl	Same as `Request.Video` in the request body.	Container
Audio	Response.Template.TransProTpl	Same as `Request.Audio` in the request body.	Container
TransConfig	Response.Template.TransProTpl	Same as `Request.TransConfig` in the request body.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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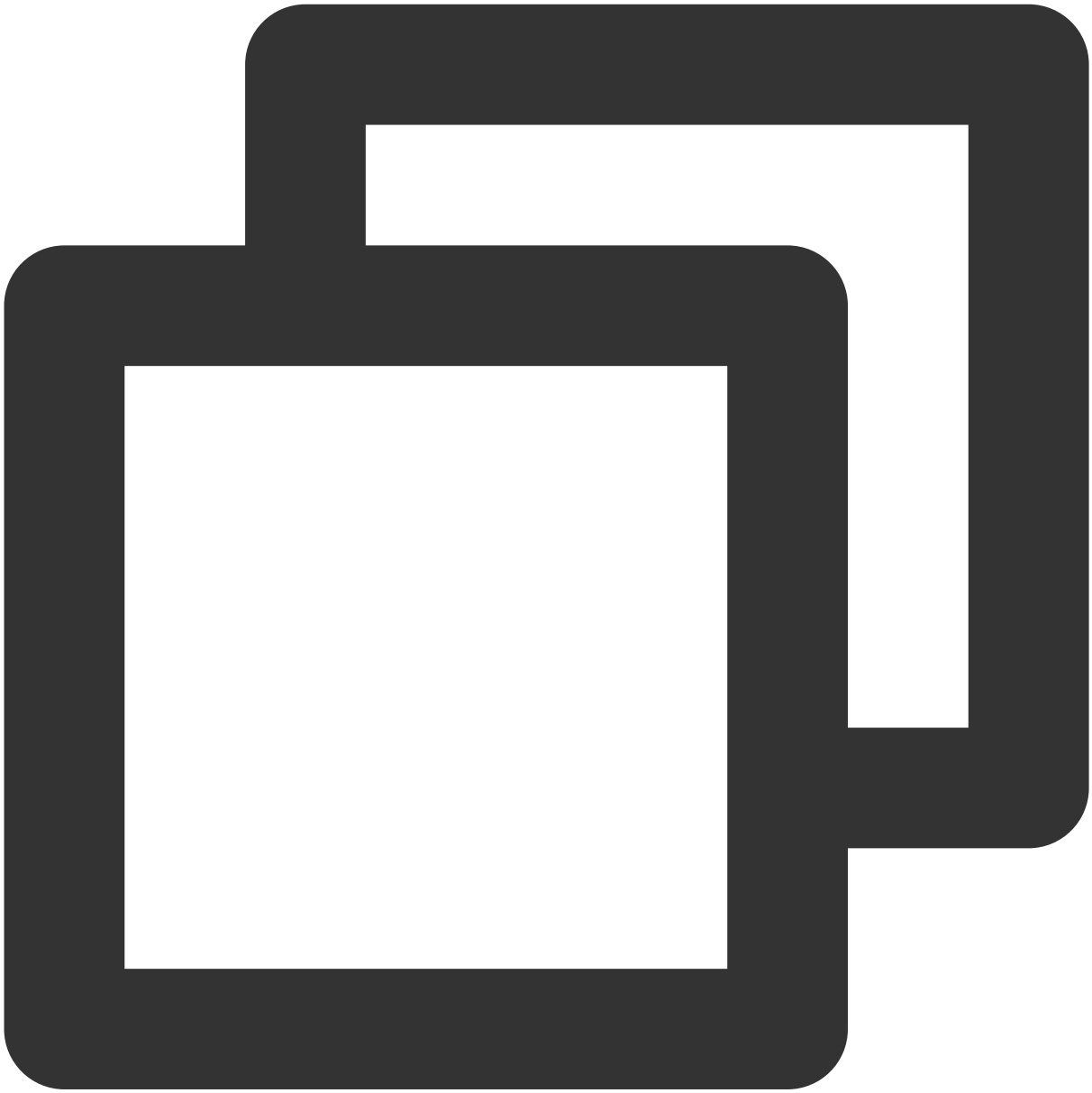

```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>TranscodePro</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mxf</Format>
```

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```
    </Container>
    <Video>
        <Codec>xavc</Codec>
        <Profile>XAVC-HD_422_10bit</Profile>
        <Width>1920</Width>
        <Height>1080</Height>
        <Interlaced>true</Interlaced>
        <Fps>30000/1001</Fps>
        <Bitrate>50000</Bitrate>
    </Video>
    <Audio>
        <Codec>pcm_s24le</Codec>
    </Audio>
    <TransConfig>
        <AdjDarMethod>scale</AdjDarMethod>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

Response

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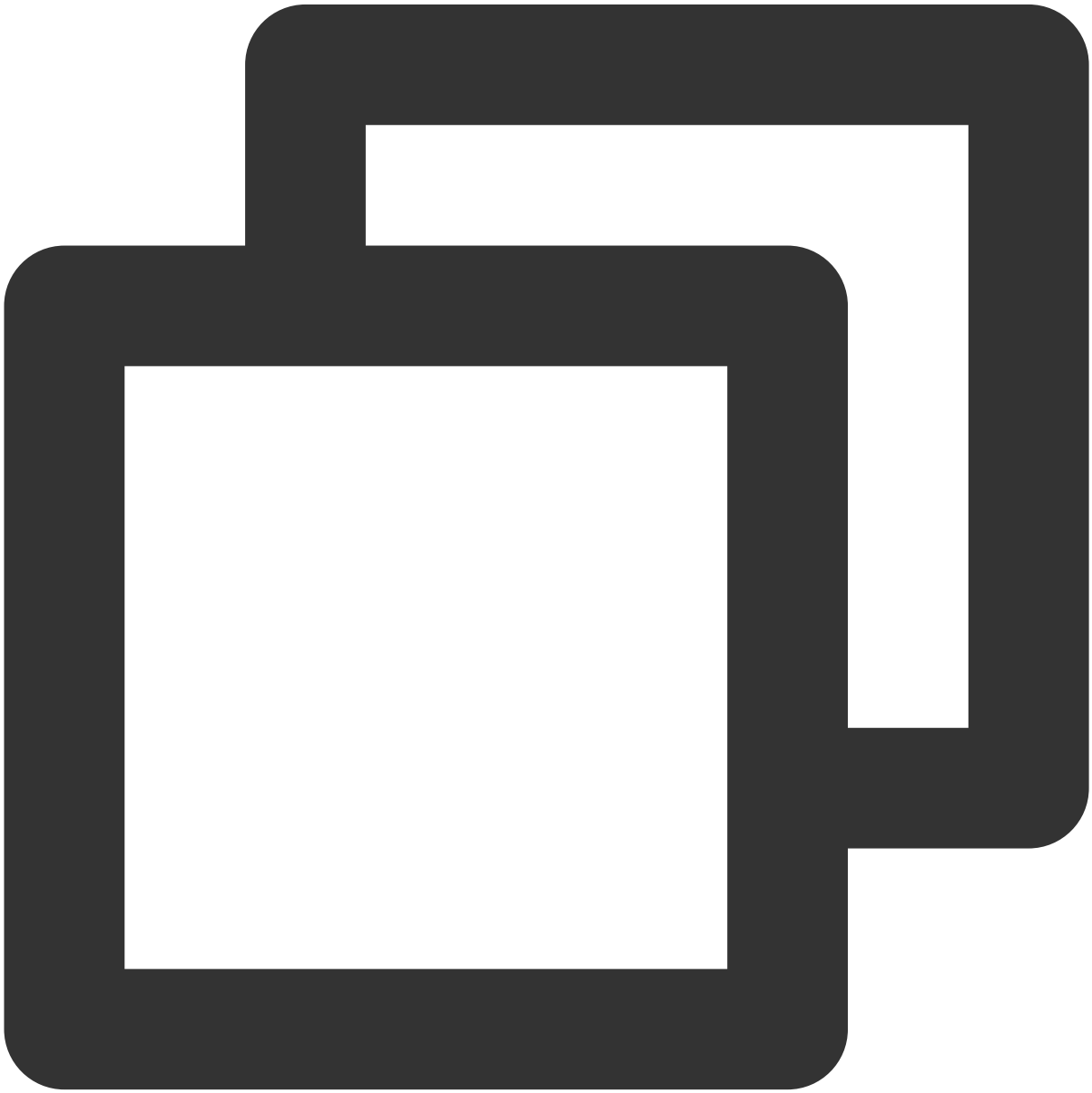

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>TranscodePro</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <TransProTpl>
            <Container>
                <Format>mxf</Format>
            </Container>
            <Video>
                <Codec>xavc</Codec>
                <Profile>XAVC-HD_422_10bit</Profile>
                <Width>1920</Width>
                <Height>1080</Height>
                <Interlaced>true</Interlaced>
                <Fps>30000/1001</Fps>
                <Bitrate>50000</Bitrate>
            </Video>
            <Audio>
                <Codec>pcm_s24le</Codec>
            </Audio>
            <TransConfig>
                <AdjDarMethod>scale</AdjDarMethod>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </TransProTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Text-to-Speech Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a text-to-speech template.

Request

Sample request

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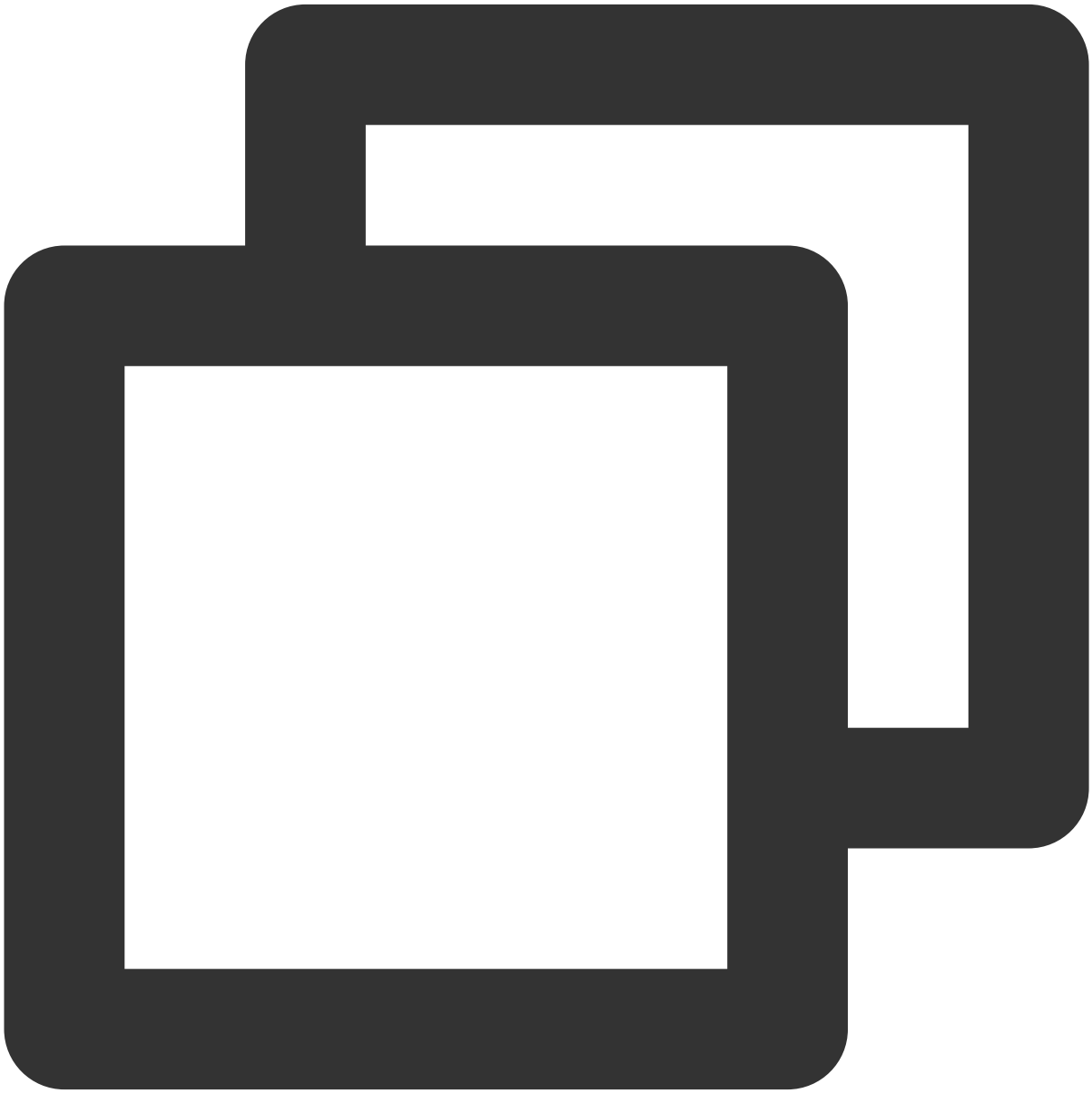

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

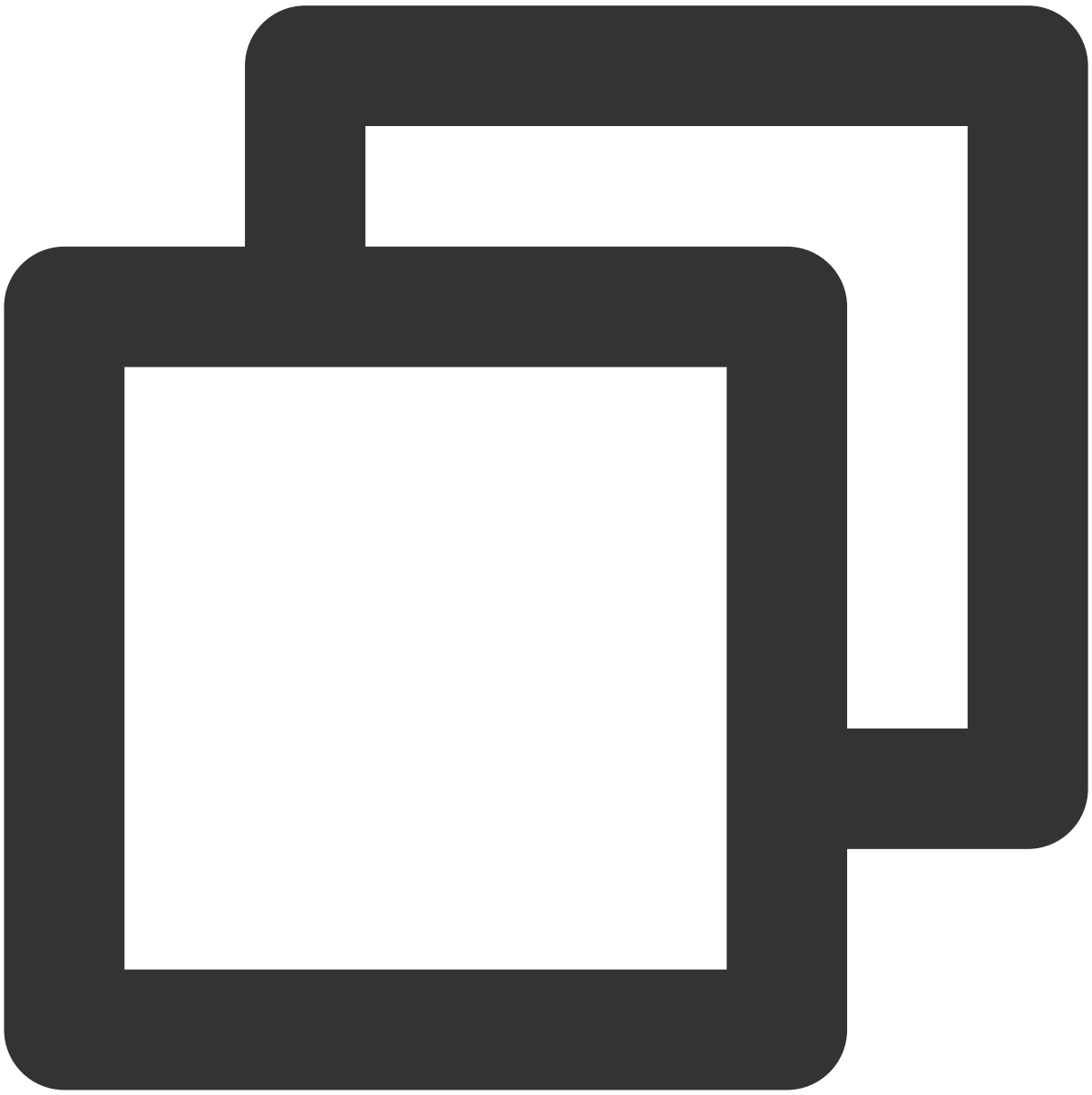
When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Tts</Tag>
    <Name>TemplateName</Name>
    <Mode>Sync</Mode>
    <Codec>pcm</Codec>
    <VoiceType>ruxue</VoiceType>
    <Volume>2</Volume>
    <Speed>200</Speed>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Template tag: Tts	String	Yes	Tts
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes	None
Mode	Request	Processing mode, which is `Asyc` by default.	String	No	Asyc (async synthesis); Sync (sync synthesis). When `Asyc` is selected, the codec can only be `pcm`.
Codec	Request	Audio format, which is wav (sync)/pcm (async) by default.	String	No	wav, mp3, pcm
VoiceType	Request	Voice, which is `ruxue` by default.	String	No	ruxue, aixiaonan, aixiaoxing

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Volume	Request	Volume, which is 0 by default.	String	No	[-10,10]
Speed	Request	Speech rate, which is 100 by default.	String	No	[50,200]

Voice description

Name	Voice Parameter Value	Type	Use Case	Supported Languages	Voice Quality
Ruxue	ruxue	Standard female voice	General	Chinese, Chinese-English mix	Standard
Aixiaonan	aixiaonan	Sweet female voice	General, social	Chinese, Chinese-English mix	Premium
Aixiaoxing	aixiaoxing	Commentary male voice	General, commentary	Chinese, Chinese-English mix	Premium

Multi-sentiment voice description

Name	Voice Parameter Value	Sentiment Category
Aixiaoxing	aixiaoxing	Neutral, broadcasting, calm, excited

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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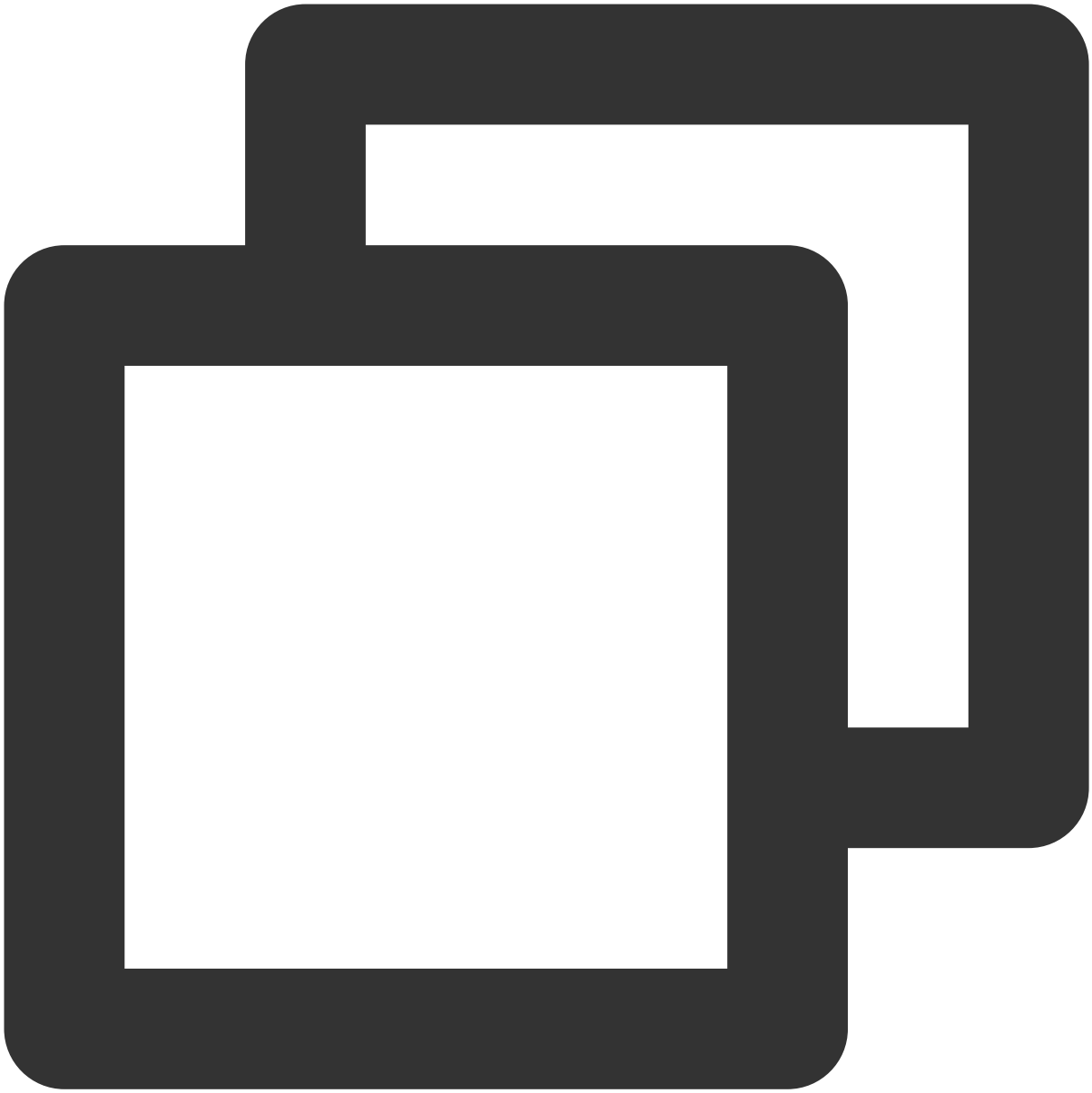

```
<Response>
    <Template>
        <Tag>Tts</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <TtsTpl>
            <Mode>Sync</Mode>
            <Codec>pcm</Codec>
            <VoiceType>ruxue</VoiceType>
```

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```
            <Volume>2</Volume>
            <Speed>200</Speed>
        </TtsTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

 `Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String
Tag	Response.Template	Template type: Tts	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
TtsTpl	Response.Template	Template parameters	Container

`TtsTpl` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Mode	Response.Template.TtsTpl	Same as `Request.Mode` in the request body.
Codec	Response.Template.TtsTpl	Same as `Request.Codec` in the request body.
VoiceType	Response.Template.TtsTpl	Same as `Request.VoiceType` in the request body.
Volume	Response.Template.TtsTpl	Same as `Request.Volume` in the request body.

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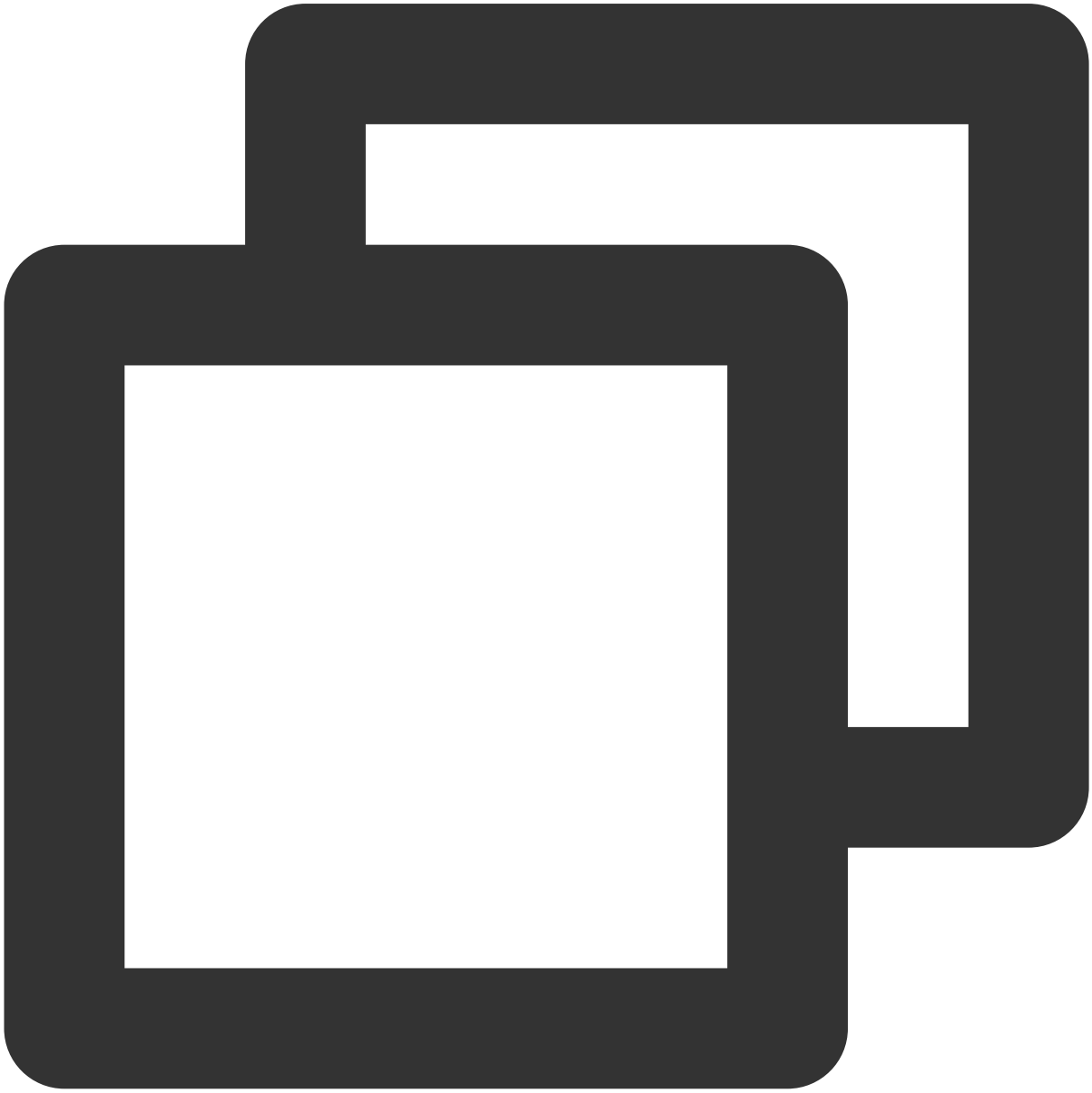
Speed	Response.Template.TtsTpl	Same as `Request.Speed` in the request body.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request



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```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>Tts</Tag>
    <Name>TemplateName</Name>
    <Mode>Sync</Mode>
    <Codec>pcm</Codec>
    <VoiceType>ruxue</VoiceType>
    <Volume>2</Volume>
    <Speed>200</Speed>
</Request>
```

Response

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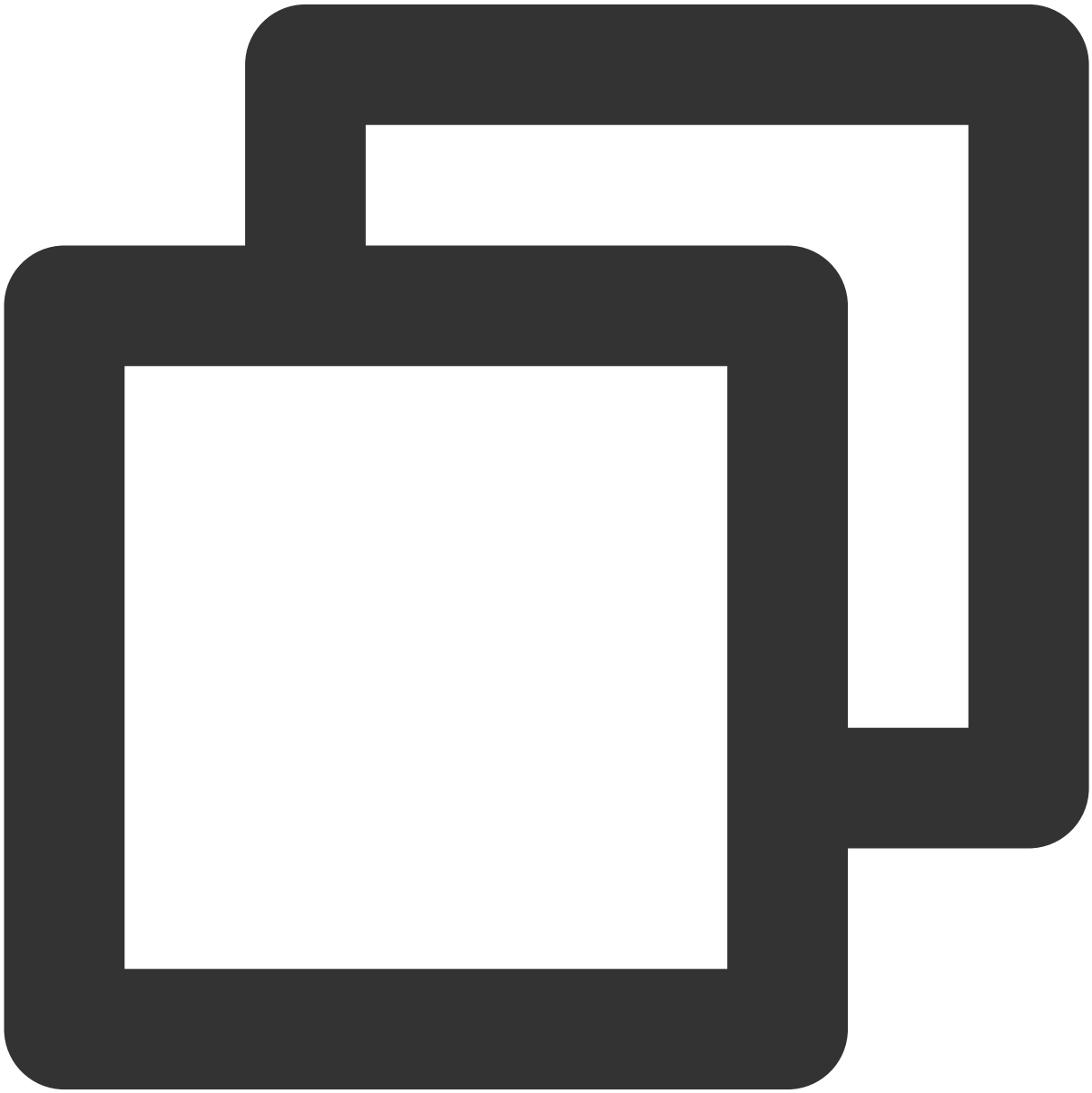

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>Tts</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <TtsTpl>
            <Mode>Sync</Mode>
            <Codec>pcm</Codec>
            <VoiceType>ruxue</VoiceType>
            <Volume>2</Volume>
            <Speed>200</Speed>
        </TtsTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Video Montage Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a video montage template.

Request

Sample request

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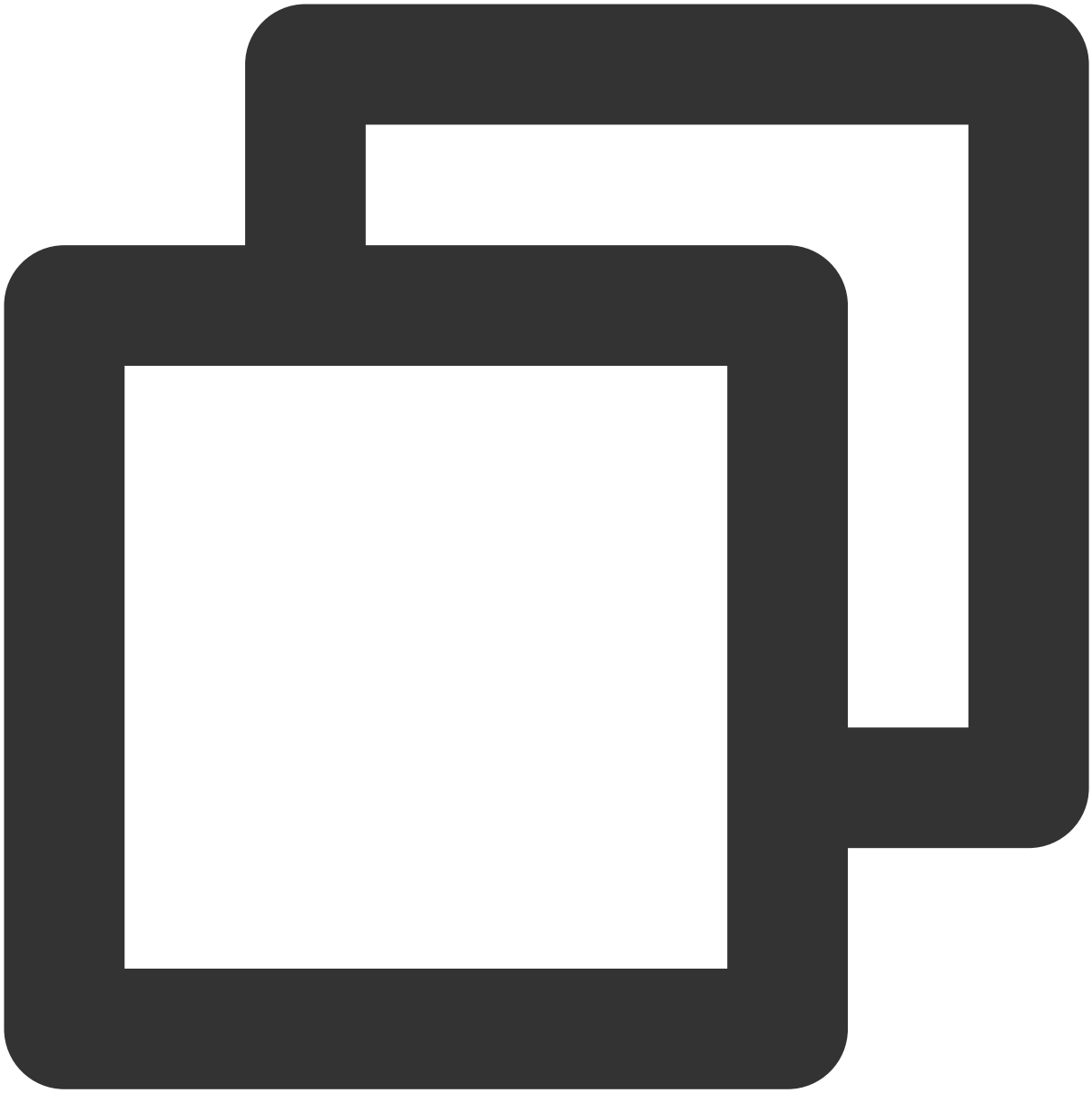

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

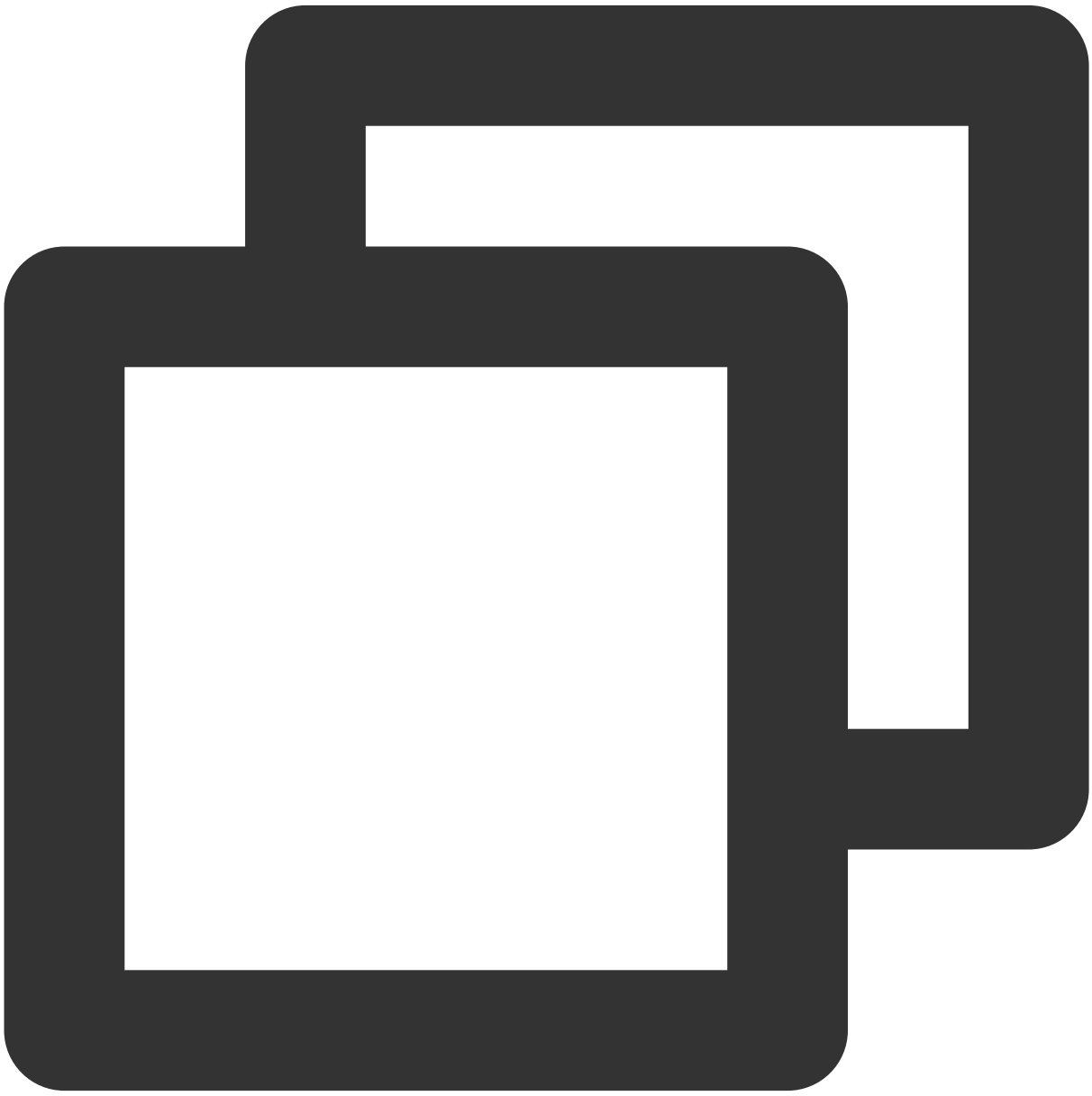
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>VideoMontage</Tag>
    <Name>TemplateName</Name>
    <Duration>10.5</Duration>
    <Container>
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
        <Remove>false</Remove>
    </Audio>
    <AudioMix>
        <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3</AudioS
        <MixMode>Once</MixMode>
        <Replace>true</Replace>
    </AudioMix>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Template tag: VideoMontage	String	Yes	None
Name	Request	Template name, which	String	Yes	None

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		can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).			
Duration	Request	Video montage duration	String	No	1. The default value is the automatically analyzed duration. 2. Unit: Second 3. Supports the float format, accurate to the millisecond.
Container	Request	Container format	Container	Yes	None
Video	Request	Video information	Container	Yes	None
Audio	Request	Audio information	Container	No	None
AudioMix	Request	Audio mix parameter as described in Structure.	Container array	No	Valid only if `Audio.Remove` is `false`

`Container`
has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Format	Request.Container	Container format. Valid values: `mp4`, `flv`, `hls`, `ts`, `mkv`.	String	Yes

Audio/Video formats supported by different container formats are as follows:

Container	Audio Codecs	Video Codecs
mp4/ts/hls/mkv	AAC, MP3	H.264, H.265
flv	AAC, MP3	H.264

`Video`
has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Video	Codec format	String	No	H.264	1. H.264 2. H.265
Width	Request.Video	Width	String	No	Original video width	1. Value range: [128, 4096] 2. Unit: px 3. If only Width is set, Height is calculated based on the original video aspect ratio. 4. This parameter must be an even number.
Height	Request.Video	Height	String	No	Original video height	1. Value range: [128, 4096] 2. Unit: px 3. If only `Height` is set, `Width` is calculated based on the original video aspect ratio. 4. This parameter must be an even number.
Fps	Request.Video	Frame rate	String	No	None	1. Value range: (0, 60] 2. Unit: fps
Bitrate	Request.Video	Bitrate of the video output file	String	No	None	1. Value range: [10, 50000] 2. Unit: Kbps
Crf	Request.Video	Bitrate, which is a quality control factor	String	No	None	1. Value range: (0, 51] 2. If `Crf` is set, the setting of `Bitrate` becomes invalid. 3. If `Bitrate` is empty, `25` is used for this parameter by default.
Rotate	Request.Video	Rotation angle	String	No	None	1. Value range: [0, 360) 2. Unit: Degree

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`Audio`
has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Audio	Codec format	String	No	aac	Valid values: `aac`, `mp3`.
Samplerate	Request.Audio	Sample rate	String	No	44100	1. Unit: Hz 2. Valid values: `11025`, `22050`, `32000`, `44100`, `48000`, `96000`. 3. Different container formats support different MP3 sample rates, as shown in the table below.
Bitrate	Request.Audio	Original audio bitrate	String	No	None	1. Unit: Kbps 2. Value range: [8, 1000]
Channels	Request.Audio	Number of sound channels	String	No	None	1. If Codec is aac, the value can be 1, 2, 4, 5, 6, or 8. 2. If Codec is mp3, the value can be 1 or 2.
Remove	Request.Audio	Whether to delete the audio stream	String	No	false	Valid values: `true`, `false`.

Note:

Y indicates supported, and N indicates unsupported.

Container Format/Audio Sample Rate	11025	22050	32000	44100	48000	96000
flv	N	Y	N	Y	N	N
mp4	N	Y	Y	Y	Y	N
hls/ts/mkv	Y	Y	Y	Y	Y	N

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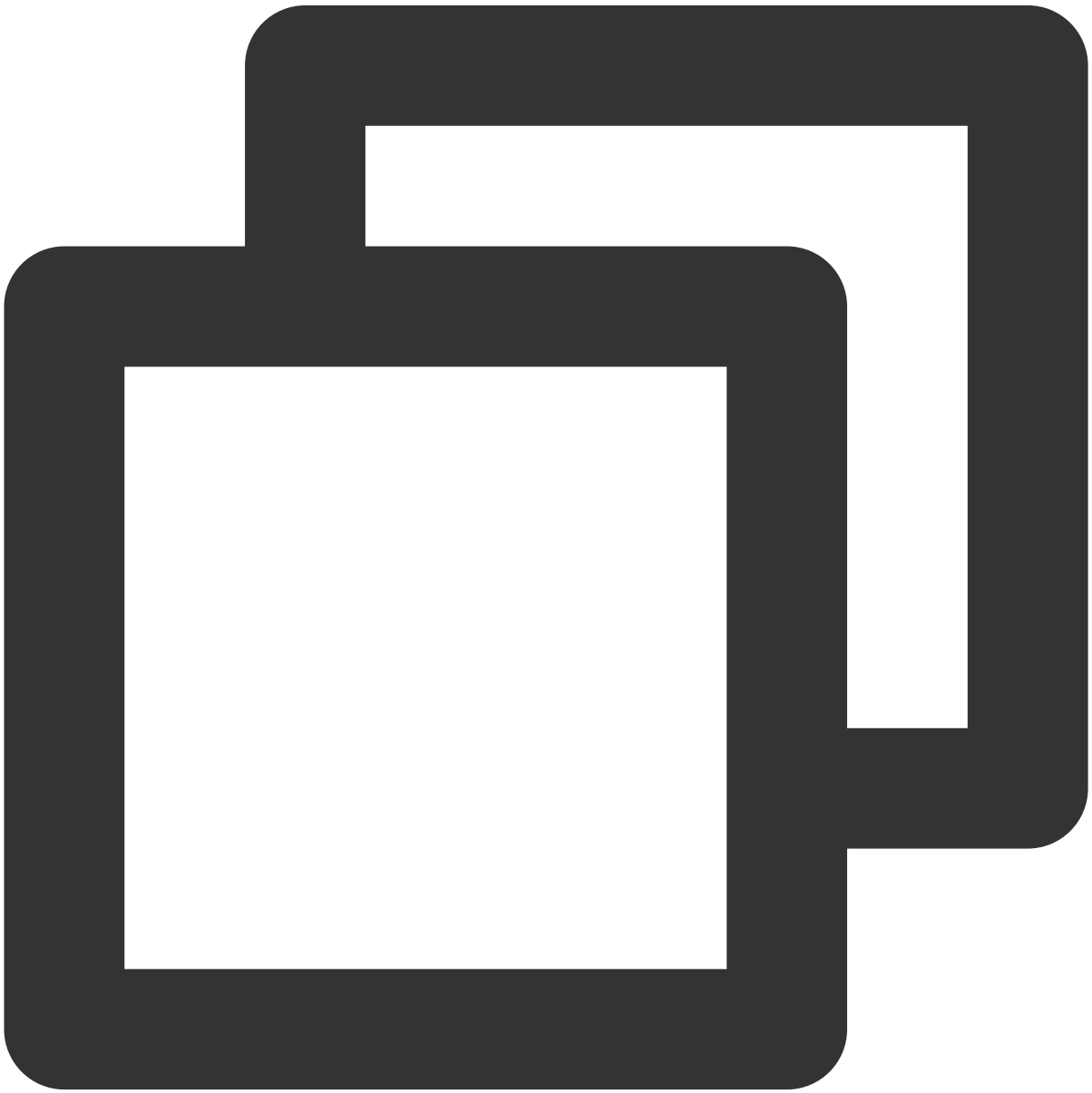
Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <Template>
```

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```
        <Tag>VideoMontage</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <VideoMontage>
            <Duration>10.5</Duration>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
                <Remove>false</Remove>
            </Audio>
            <AudioMix>
                <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3
                <MixMode>Once</MixMode>
                <Replace>true</Replace>
            </AudioMix>
        </VideoMontage>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String

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BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String
Tag	Response.Template	Template tag: VideoMontage	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
VideoMontage	Response.Template	Template parameters	Container

`VideoMontage` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
Duration	Response.TemplateList.VideoMontage	Same as the `Request.Duration` in the request body.
TimeInterval	Response.TemplateList.VideoMontage	Same as the `Request.TimeInterval` in the request body.
Container	Response.TemplateList.VideoMontage	Same as the `Request.Container` in the request body.
Video	Response.TemplateList.VideoMontage	Same as the `Request.Video` in the request body.
Audio	Response.TemplateList.VideoMontage	Same as the `Request.Audio` in the request body.
AudioMix	Response.TemplateList.VideoMontage	Same as the `Request.AudioMix` in the request body.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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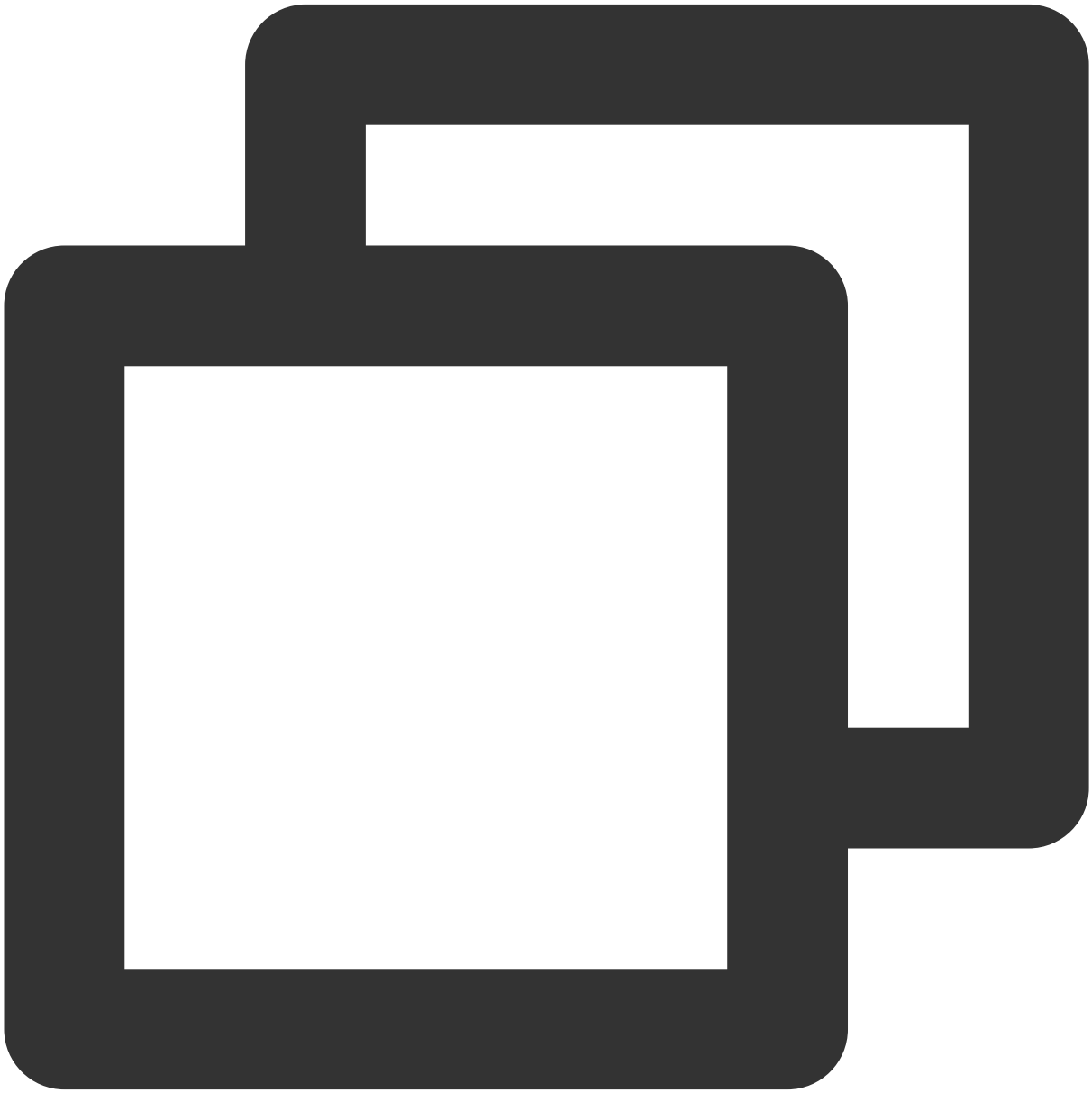

```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>VideoMontage</Tag>
    <Name>TemplateName</Name>
    <Duration>10.5</Duration>
    <Container>
```

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```
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
        <Remove>false</Remove>
    </Audio>
    <AudioMix>
        <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3</AudioS
        <MixMode>Once</MixMode>
        <Replace>true</Replace>
    </AudioMix>
</Request>
```

Response

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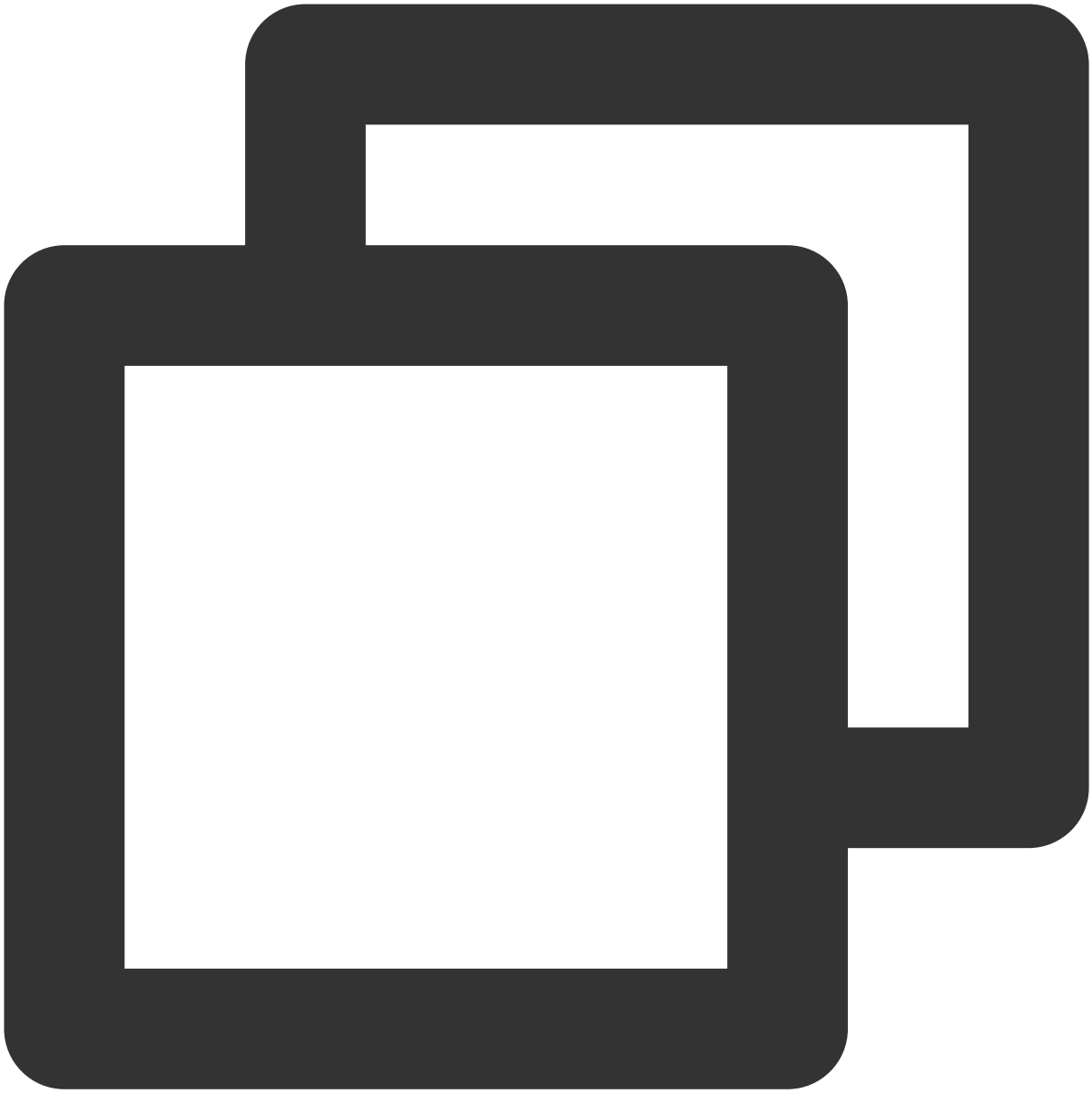

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>VideoMontage</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <VideoMontage>
            <Duration>10.5</Duration>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
                <Remove>false</Remove>
            </Audio>
            <AudioMix>
                <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3
                <MixMode>Once</MixMode>
                <Replace>true</Replace>
            </AudioMix>
        </VideoMontage>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Video Enhancement Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a video enhancement template.

Request

Sample request

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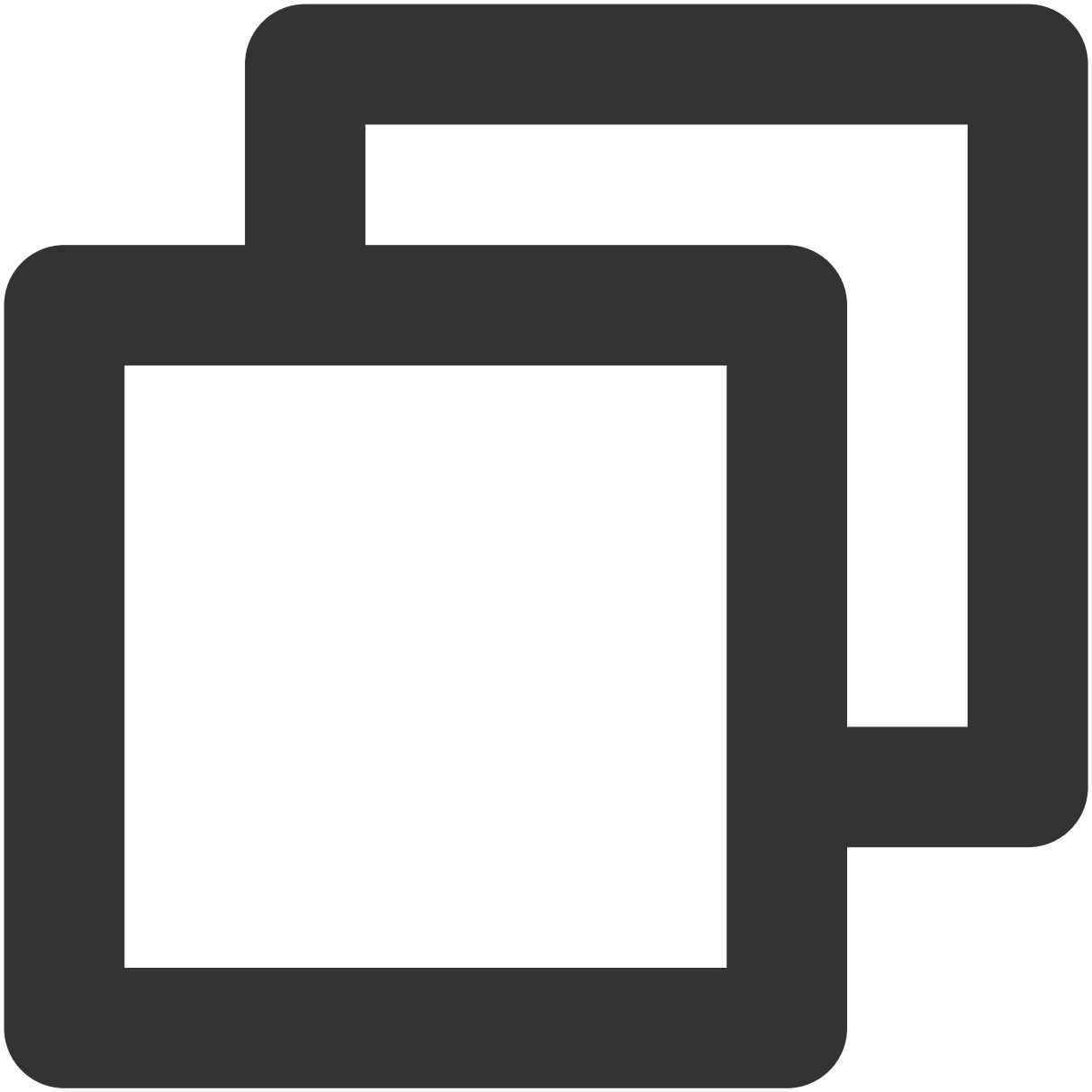

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

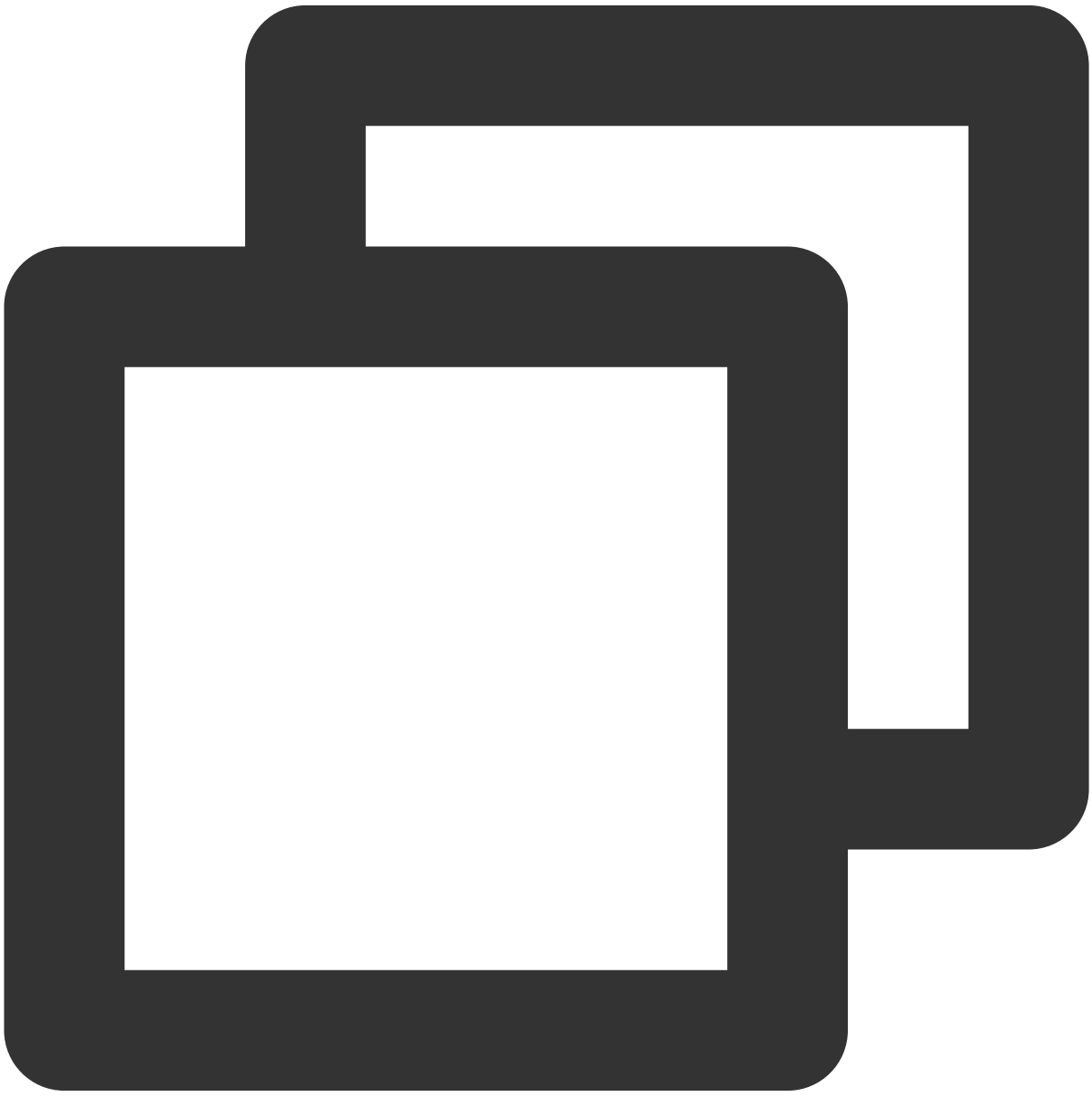
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>VideoProcess</Tag>
    <Name>TemplateName</Name>
    <ColorEnhance>
        <Enable>true</Enable>
        <Contrast></Contrast>
        <Correction></Correction>
        <Saturation></Saturation>
    </ColorEnhance>
    <MsSharpen>
        <Enable>true</Enable>
        <SharpenLevel></SharpenLevel>
    </MsSharpen>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Template tag: VideoProcess	String	Yes	No
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes	None
ColorEnhance	Request	Color enhancement	Container	No. `ColorEnhance` and `MsSharpen` cannot be empty at the same time.	None
MsSharpen	Request	Detail enhancement	Container	No. `ColorEnhance` and `MsSharpen`	None

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				cannot be empty at the same time.		

`ColorEnhance`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Enable	Request.ColorEnhance	Whether to enable color enhancement	String	None	false	true, false
Contrast	Request.ColorEnhance	Contrast	String	No	None	Value range: [0, 100] or a null string indicating automatic analysis
Correction	Request.ColorEnhance	Color correction	String	No	None	Value range: [0, 1000] or a null string indicating automatic analysis
Saturation	Request.ColorEnhance	Saturation	String	No	None	Value range: [0, 300] or a null string indicating automatic analysis

`MsSharpen`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Enable	Request.MsSharpen	Whether to enable detail	String	None	false	true, false

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		enhancement				
SharpenLevel	Request.MsSharpen	Enhancement level	String	No	None	Value range: [0, 10] or a null string indicating automatic analysis

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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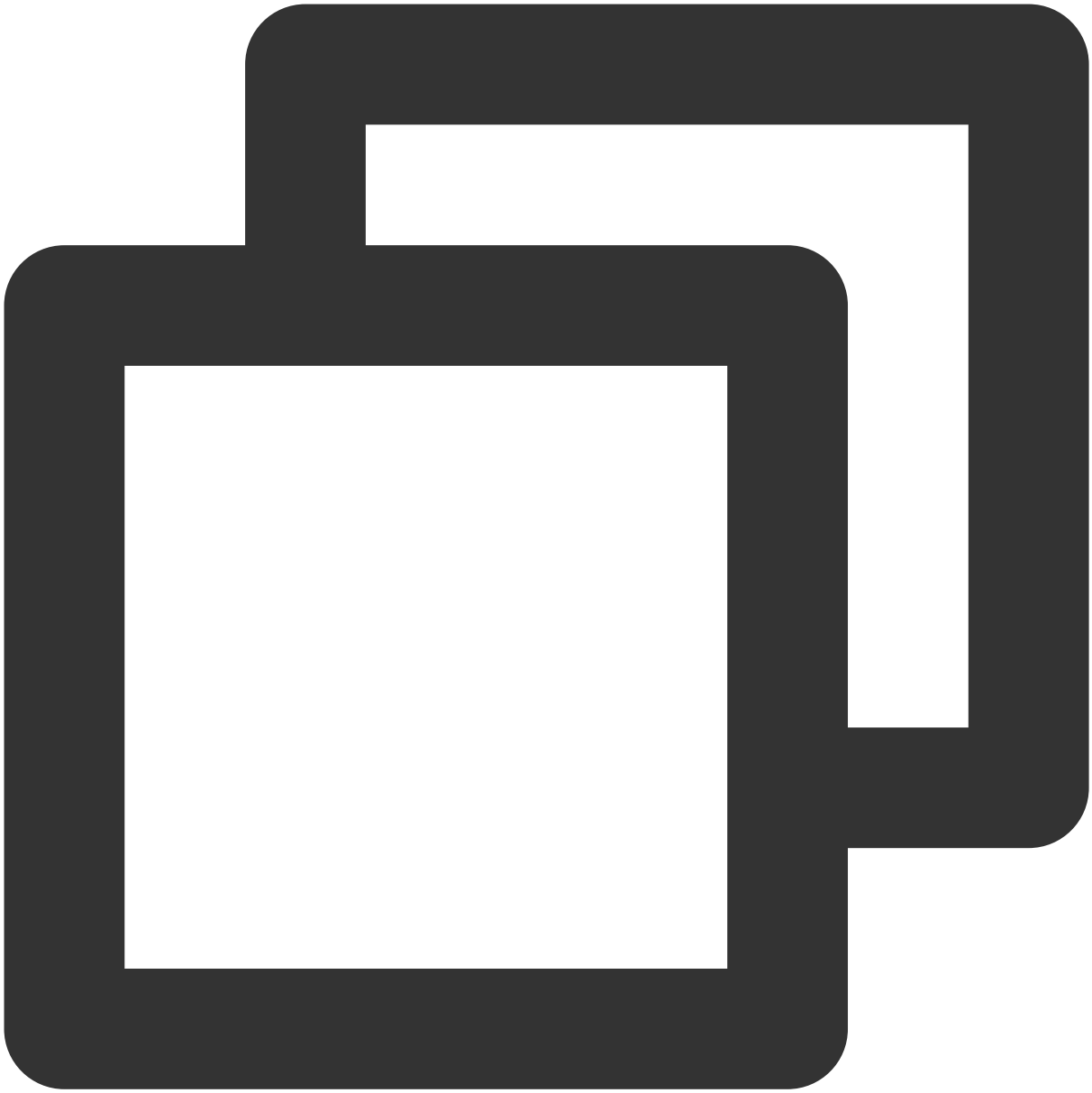

```
<Response>
    <Template>
        <Tag>VideoProcess</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <VideoProcess>
            <ColorEnhance>
                <Enable>true</Enable>
                <Contrast></Contrast>
```

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```
                <Correction></Correction>
                <Saturation></Saturation>
            </ColorEnhance>
            <MsSharpen>
                <Enable>true</Enable>
                <SharpenLevel></SharpenLevel>
            </MsSharpen>
        <VideoProcess>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String
Tag	Response.Template	Template tag: VideoProcess	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
VideoProcess	Response.Template	Template parameters	Container

`VideoProcess`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description

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ColorEnhance	Response.Template.VideoProcess	Same as the `Request.ColorEnhance` in the request body.
MsSharpen	Response.Template.VideoProcess	Same as the `Request.MsSharpen` in the request body.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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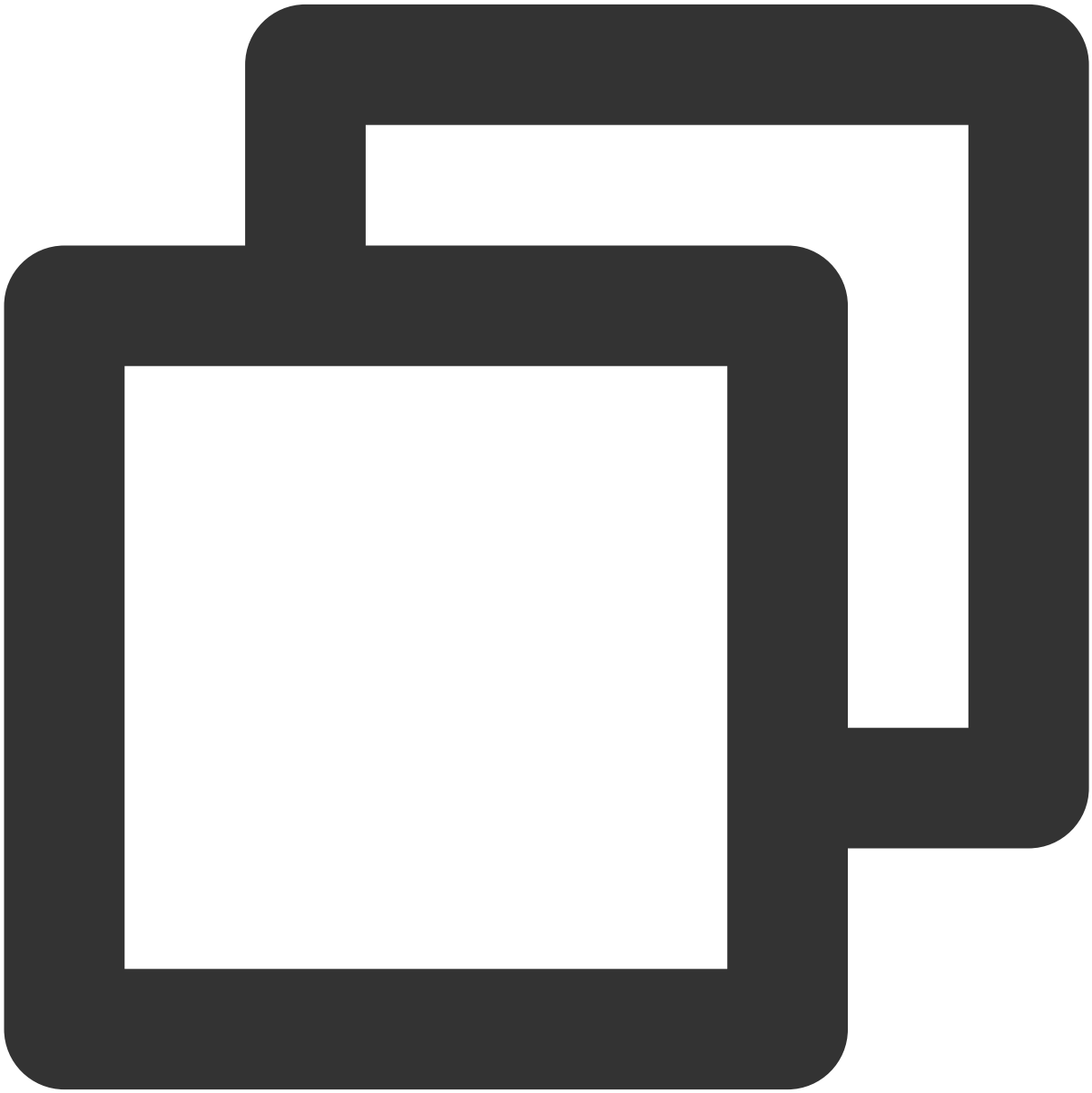

```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>VideoProcess</Tag>
    <Name>TemplateName</Name>
    <ColorEnhance>
        <Enable>true</Enable>
```

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```
        <Contrast></Contrast>
        <Correction></Correction>
        <Saturation></Saturation>
    </ColorEnhance>
    <MsSharpen>
        <Enable>true</Enable>
        <SharpenLevel></SharpenLevel>
    </MsSharpen>
</Request>
```

Response

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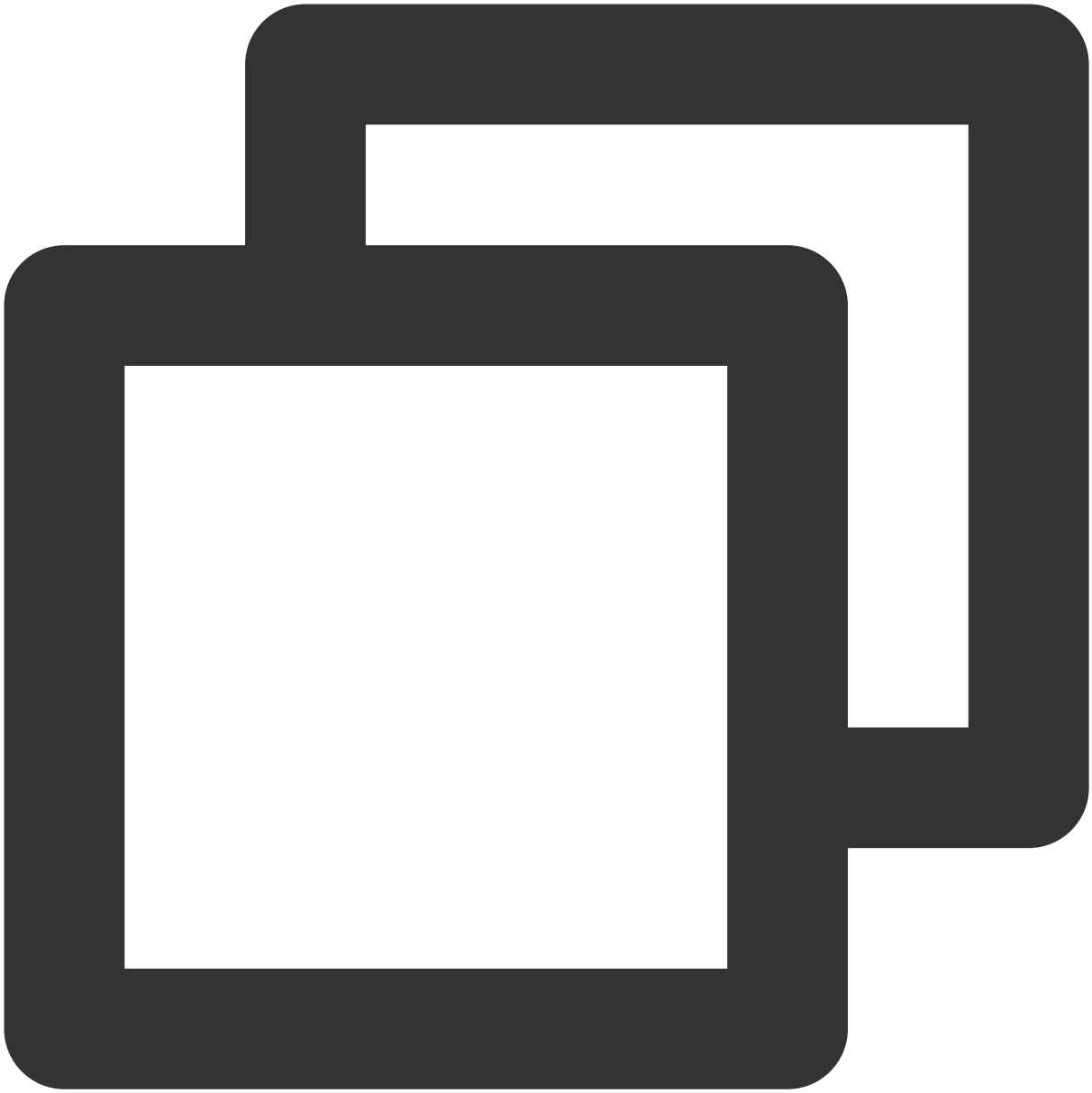

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>VideoProcess</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <ColorEnhance>
            <Enable>true</Enable>
            <Contrast></Contrast>
            <Correction></Correction>
            <Saturation></Saturation>
        </ColorEnhance>
        <MsSharpen>
            <Enable>true</Enable>
            <SharpenLevel></SharpenLevel>
        </MsSharpen>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Voice/Sound Separation Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a voice/sound separation template.

Request

Sample request

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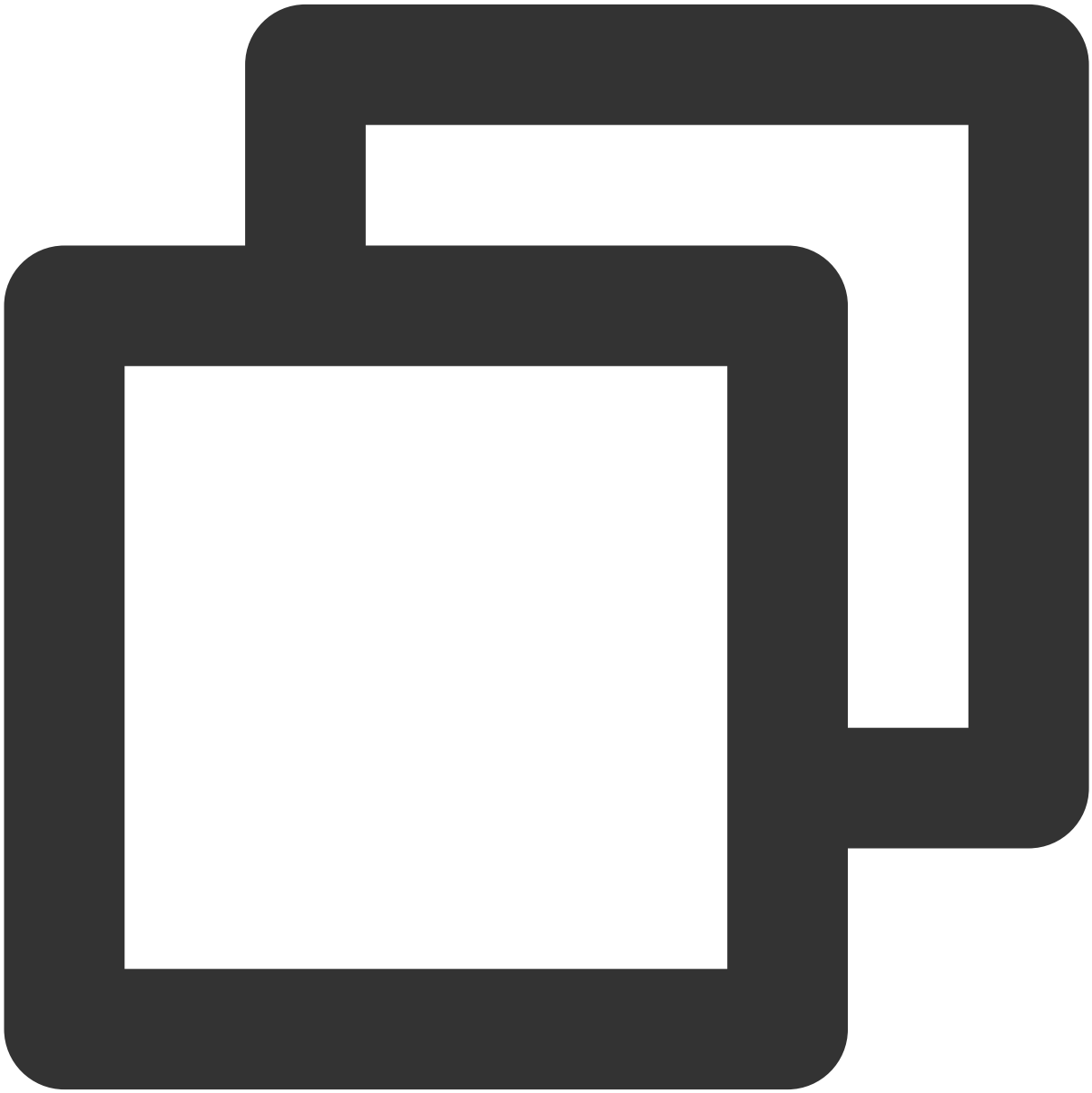

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

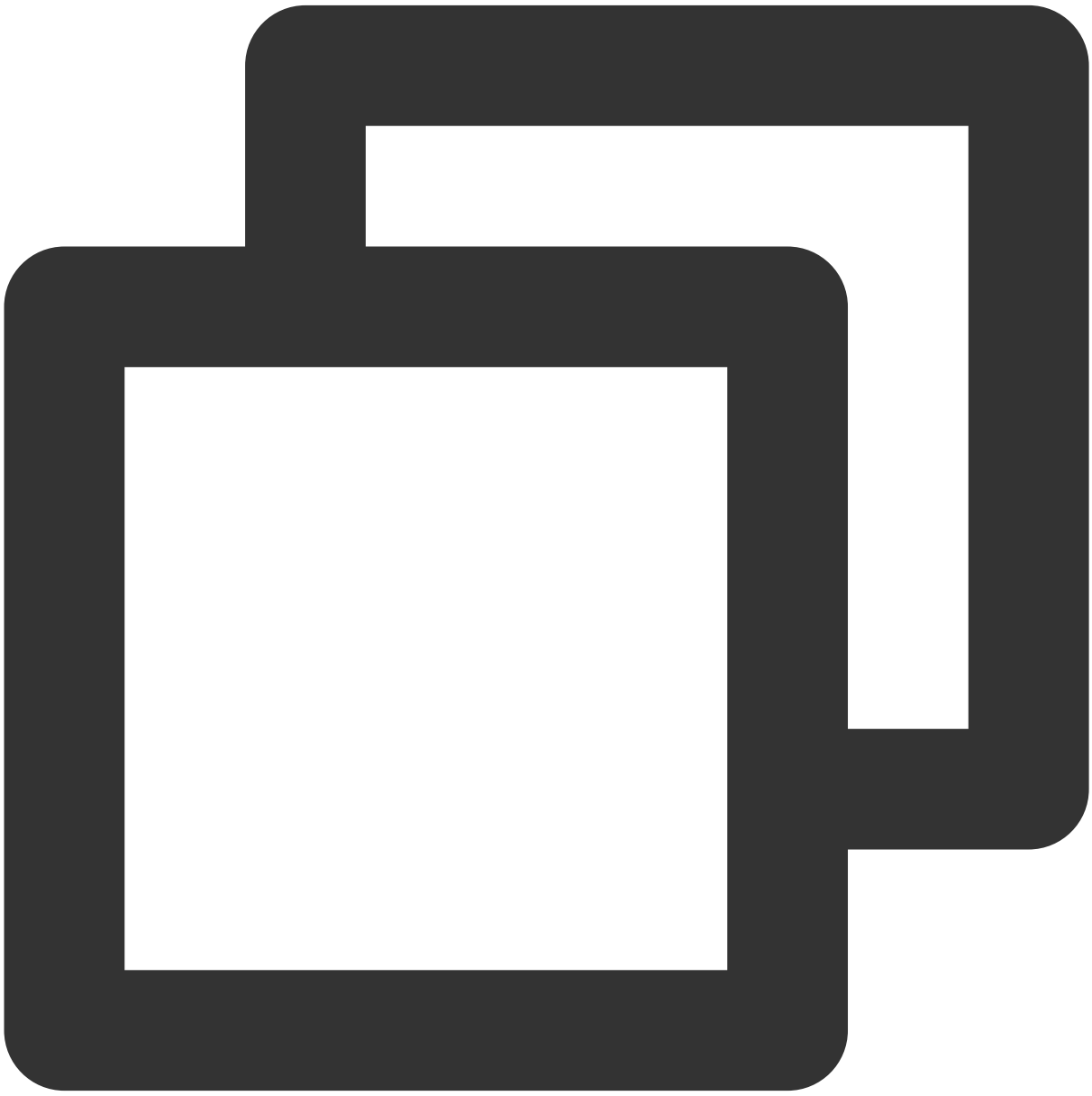
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>VoiceSeparate</Tag>
    <Name>TemplateName</Name>
    <AudioMode>IsAudio</AudioMode>
    <AudioConfig>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </AudioConfig>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Template tag: VoiceSeparate	String	Yes	None
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes	None
AudioMode	Request	Audio output mode	String	Yes	IsAudio: Outputs voice IsBackground: Outputs background sound AudioAndBackground: Outputs voice and background sound
AudioConfig	Request	Audio configuration	Container	Yes	None

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`AudioConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Codec	Request.Audio	Codec format	String	No	aac	Valid values: `aac`, `mp3`, `flac`, `amr`.
Samplerate	Request.Audio	Sample rate	String	No	44100	1. Unit: Hz 2. Valid values: `8000`, `11025`, `22050`, `32000`, `44100`, `48000`, `96000`. 3. If `Codec` is `aac` or `flac`, the value cannot be `8000`. 4. If `Codec` is `mp3`, the value cannot be `8000` or `96000`. 5. If `Codec` is `amr`, the value can only be `8000`.
Bitrate	Request.Audio	Original audio bitrate	String	No	None	1. Unit: Kbps 2. Value range: [8, 1000]
Channels	Request.Audio	Number of sound channels	String	No	None	1. If Codec is aac or flac, the value can be 1, 2, 4, 5, 6, or 8. 2. If `Codec` is `mp3`, the value can only be `1` or `2`. 3. If `Codec` is `amr`, the value can only be `1`.

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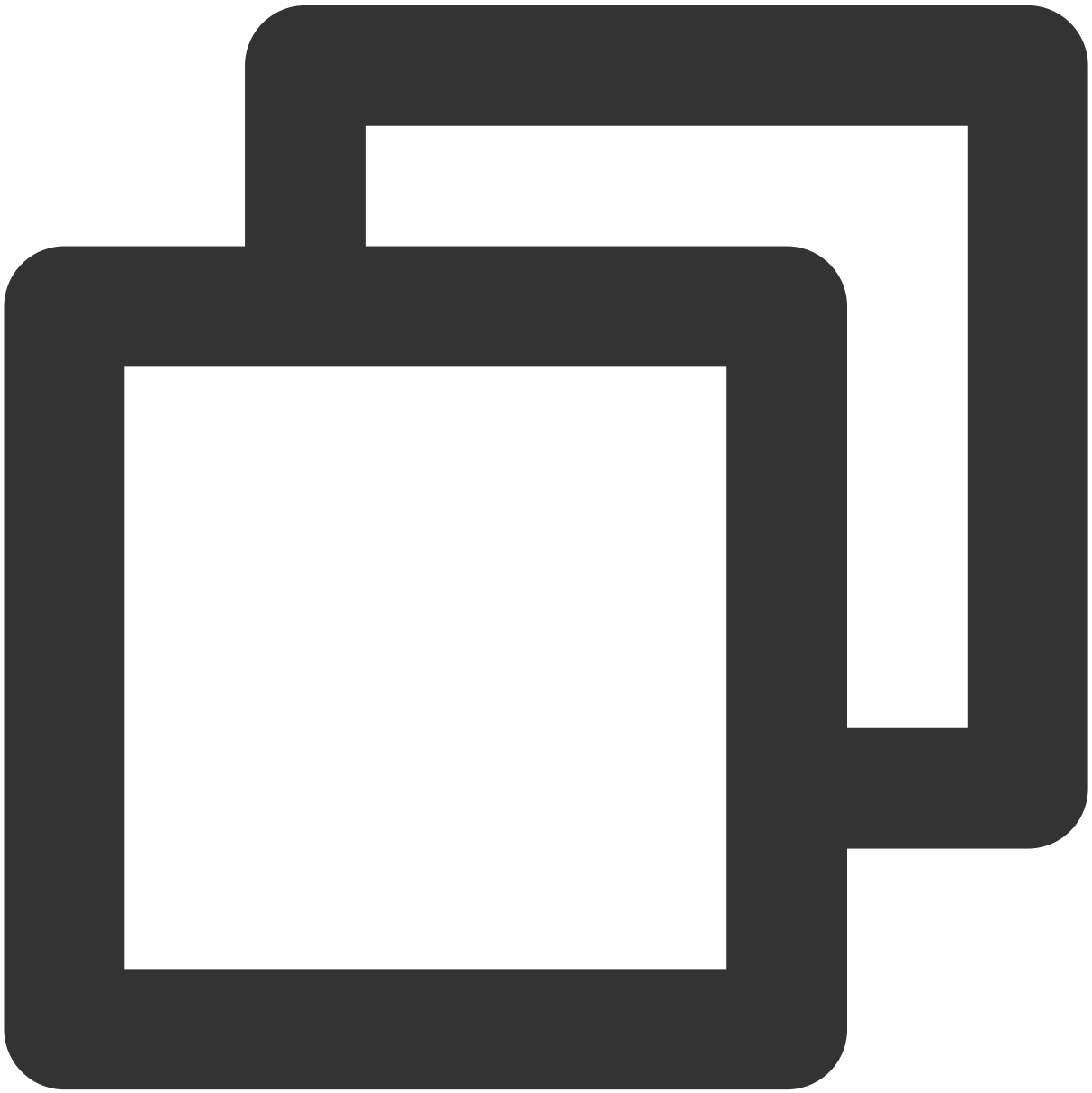
Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <Template>
```

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```
        <Tag>VoiceSeparate</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <VoiceSeparate>
            <AudioMode>IsAudio</AudioMode>
            <AudioConfig>
                <Codec>mp3</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>12</Bitrate>
                <Channels>2</Channels>
            </AudioConfig>
        </VoiceSeparate>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String
Tag	Response.Template	Template tag: VoiceSeparate	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
VoiceSeparate	Response.Template	Template parameters	Container

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`VoiceSeparate` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
AudioMode	Response.Template.VoiceSeparate	Same as `Request.AudioMode` in the request body.	String
AudioConfig	Response.Template.VoiceSeparate	Same as `Request.AudioConfig` in the request body.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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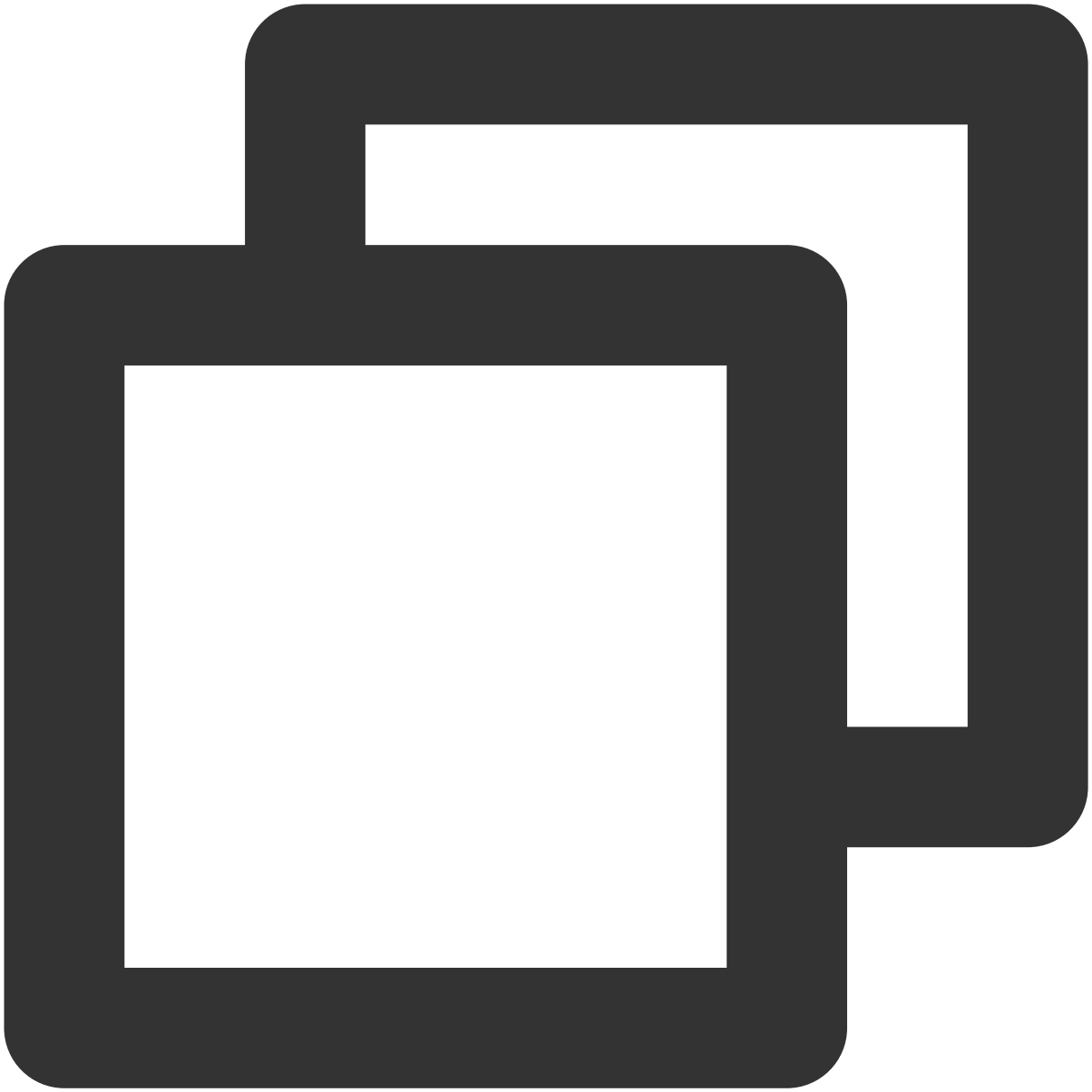

```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>VoiceSeparate</Tag>
    <Name>TemplateName</Name>
    <AudioMode>IsAudio</AudioMode>
    <AudioConfig>
```

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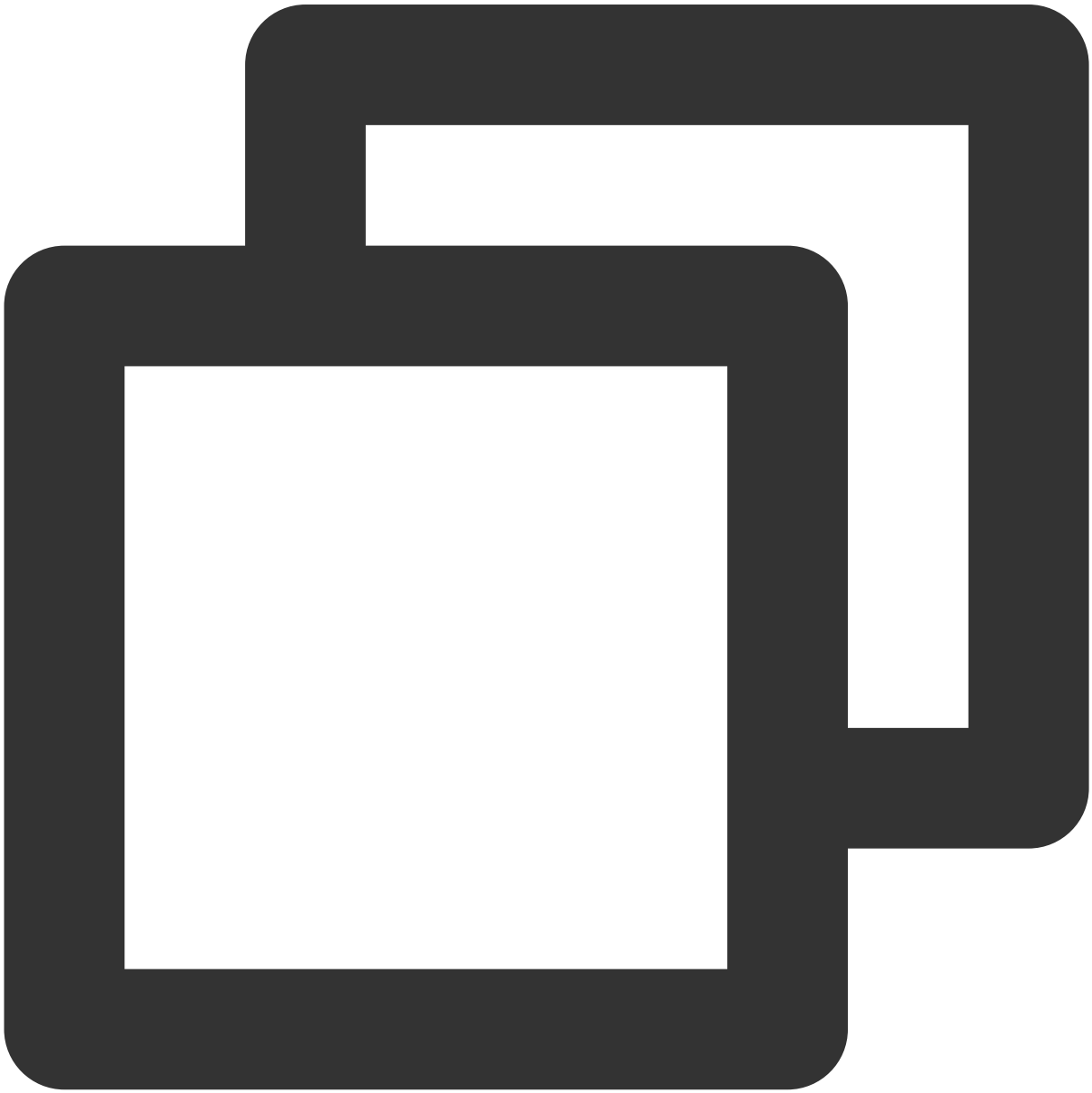
```
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </AudioConfig>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>VoiceSeparate</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <VoiceSeparate>
            <AudioMode>IsAudio</AudioMode>
            <AudioConfig>
                <Codec>mp3</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>12</Bitrate>
                <Channels>2</Channels>
            </AudioConfig>
        </VoiceSeparate>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Watermark Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a watermark template.

Request

Sample request

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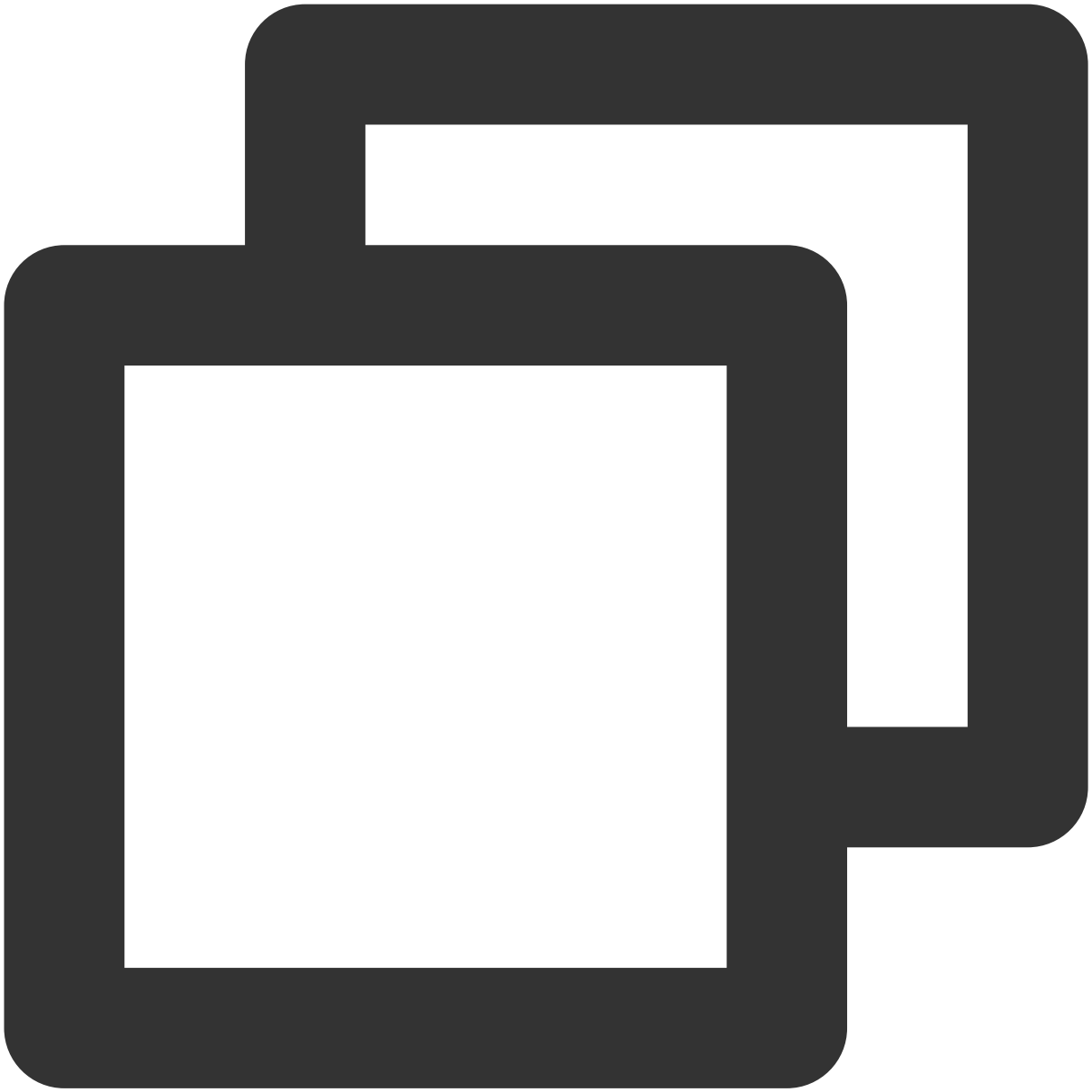

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

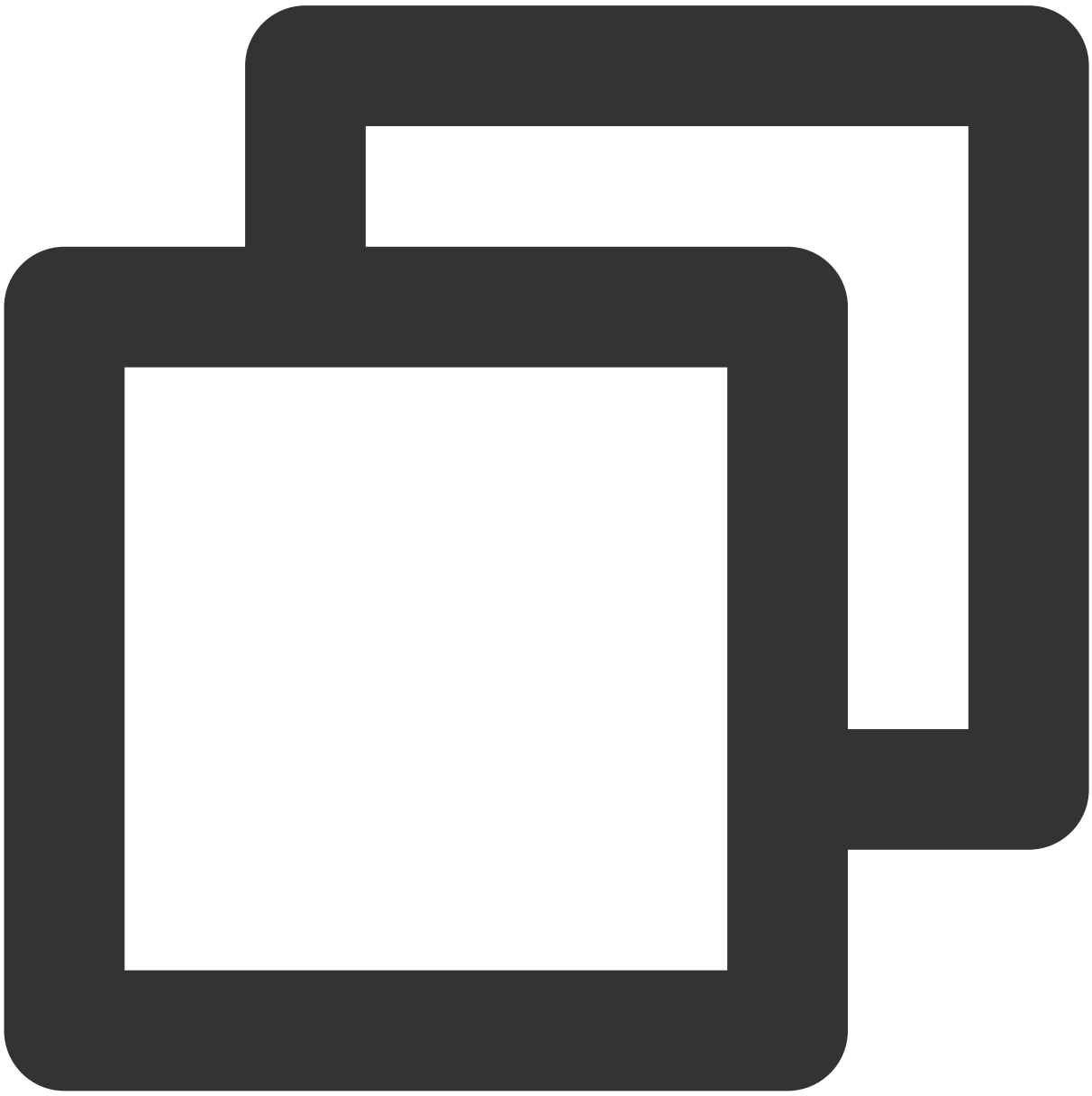
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Watermark</Tag>
    <Name>TemplateName</Name>
    <Watermark>
        <Type>Text</Type>
        <LocMode>Absolute</LocMode>
        <Dx>128</Dx>
        <Dy>128</Dy>
        <Pos>TopRight</Pos>
        <StartTime>0</StartTime>
        <EndTime>100.5</EndTime>
        <Text>
            <Text>Watermark content</Text>
            <FontSize>30</FontSize>
            <FontType></FontType>
            <FontColor>0xRRGGBB</FontColor>
            <Transparency>30</Transparency>
        </Text>
    </Watermark>
</Request>

<Request>
    <Tag>Watermark</Tag>
    <Name>TemplateName</Name>
    <Watermark>
        <Type>Image</Type>
        <LocMode>Absolute</LocMode>
        <Dx>128</Dx>
        <Dy>128</Dy>
        <Pos>TopRight</Pos>
        <StartTime>0</StartTime>
        <EndTime>100.5</EndTime>
        <Image>
            <Url>http://test-1234567890.ci.ap-beijing.myqcloud.com/shuiyin_2.png</U
            <Mode>Proportion</Mode>
            <Width>10</Width>
            <Height></Height>
            <Transparency>100</Transparency>
        </Image>
    </Watermark>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type

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Request	None	Request container	Container

`Request`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Template type: Watermark	String	Yes
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes
Watermark	Request	Watermark information	Container	Yes

`Watermark`

has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Type	Request.Watermark	Watermark type	String	Yes	None	Text: Text watermark. Image: Image watermark.
Pos	Request.Watermark	Reference position	String	Yes	None	TopRight, TopLeft, BottomRight, BottomLeft, Left, Right, Top, Bottom, Center
LocMode	Request.Watermark	Offset mode	String	Yes	None	Relativity: Proportionally. Absolute: Fixed position.
Dx	Request.Watermark	Horizontal offset	String	Yes	None	1. Image watermark with Background being true: If

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						locMode is Relativity, the unit is %, and the value range is [-300, 0]. If locMode is Absolute, the unit is px, and the value range is [-4096, 0]. 2. Image watermark with `Background` being `false`: If `locMode` is `Relativity` the unit is %, and the value range is [0, 100]. If `locMode` is `Absolute`, the unit is px, and the value range is [0, 4096]. 3. Text watermark: If `locMode` is `Relativity` the unit is %, and the value range is [0, 100]. If `locMode` is `Absolute`, the unit is px, and the value range is [0, 4096]. 4. If `Pos` is `Top`, `Bottom`, or `Center`, this parameter will not take effect.

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Dy	Request.Watermark	Vertical offset	String	Yes	None	1. Image watermark with Background being true: If locMode is Relativity, the unit is %, and the value range is [-300, 0]. If locMode is Absolute, the unit is px, and the value range is [-4096, 0]. 2. Image watermark with `Background` being `false`: If `locMode` is `Relativity` the unit is %, and the value range is [0, 100]. If `locMode` is `Absolute`, the unit is px, and the value range is [0, 4096]. 3. Text watermark: If `locMode` is `Relativity` the unit is %, and the value range is [0, 100]. If `locMode` is `Absolute`, the unit is px, and the value range is [0, 4096]. 4. If `Pos` is `Left`, `Right`, or

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						`Center`, this parameter will not take effect.
StartTime	Request.Watermark	Watermark start time	String	No	0	1. Value range: [0, video duration] 2. Unit: Second 3. The `float` format is supported, accurate to the millisecond.
EndTime	Request.Watermark	Watermark end time	String	No	Video end time	1. Value range: [0, video duration] 2. Unit: Second 3. The `float` format is supported, accurate to the millisecond.
SlideConfig	Request.Watermark	Watermark sliding configuration. If this parameter is configured, the watermark offset setting will not take effect. This parameter is not supported for top speed codec/H.265 transcoding.	Container	No	None	None
Image	Request.Watermark	Image watermark node	Container	No	None	None

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Text	Request.Watermark	Text watermark node	Container	No	None	None

`SlideConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
SlideMode	Request.Watermark.SlideConfig	Sliding mode	String	Yes	None	Default: Not enabled `ScrollFromLeft` Slides from left to right. If `ScrollFromLeft` is set, the `Watermark.Pos` parameter will not tal effect.
XSlideSpeed	Request.Watermark.SlideConfig	Horizontal sliding speed	String	Yes	None	Valid values: An integer between 0 ar 10. Default value: `0`
YSlideSpeed	Request.Watermark.SlideConfig	Vertical sliding speed	String	Yes	None	Valid values: An integer between 0 ar 10. Default value: `0`

`Image` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Url	Request.Watermark.Image	Watermark image address (which must be URL-encoded before being passed in).	String	Yes	None	Same as the watermark ima address of the bucket.
Mode	Request.Watermark.Image	Dimension mode	String	Yes	None	1. Original: Original size 2. `Proportion`

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						Scaled proportionally 3. `Fixed`: Fixed size
Width	Request.Watermark.Image	Width	String	No	None	1. If Mode is Original, the watermark ima width cannot b set. 2. If `Mode` is `Proportion` the unit is %, a the value range is [100, 300] fo the backgroun image and [1, 100] for the foreground image. Compared with the video width the watermark image width cannot be greater than 4096 px. 3. If `Mode` is `Fixed`, the unit is px, and the value range is [8, 4096]. 4. If only `Width` is se `Height` is calculated according to th original watermark ima aspect ratio.
Height	Request.Watermark.Image	Height	String	No	None	1. If Mode is Original, the watermark ima

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						height cannot b set. 2. If `Mode` is `Proportion` the unit is %, a the value range is [100, 300] fo the backgroun image and [1, 100] for the foreground image. Compared with the video heigh the watermark image height cannot be greater than 4096 px. 3. f `Mode` is `Fixed` , the unit is px, and the value range is [8, 4096]. 4. If only `Height` is set, `Width` i calculated according to th original watermark ima aspect ratio.
Transparency	Request.Watermark. Image	Transparency	String	Yes	None	Value range: [1 100]. Unit: %
Background	Request.Watermark.、 Image	Whether it is a background image	String	No	false	Valid values: `true` , `false` .

Watermark position description:

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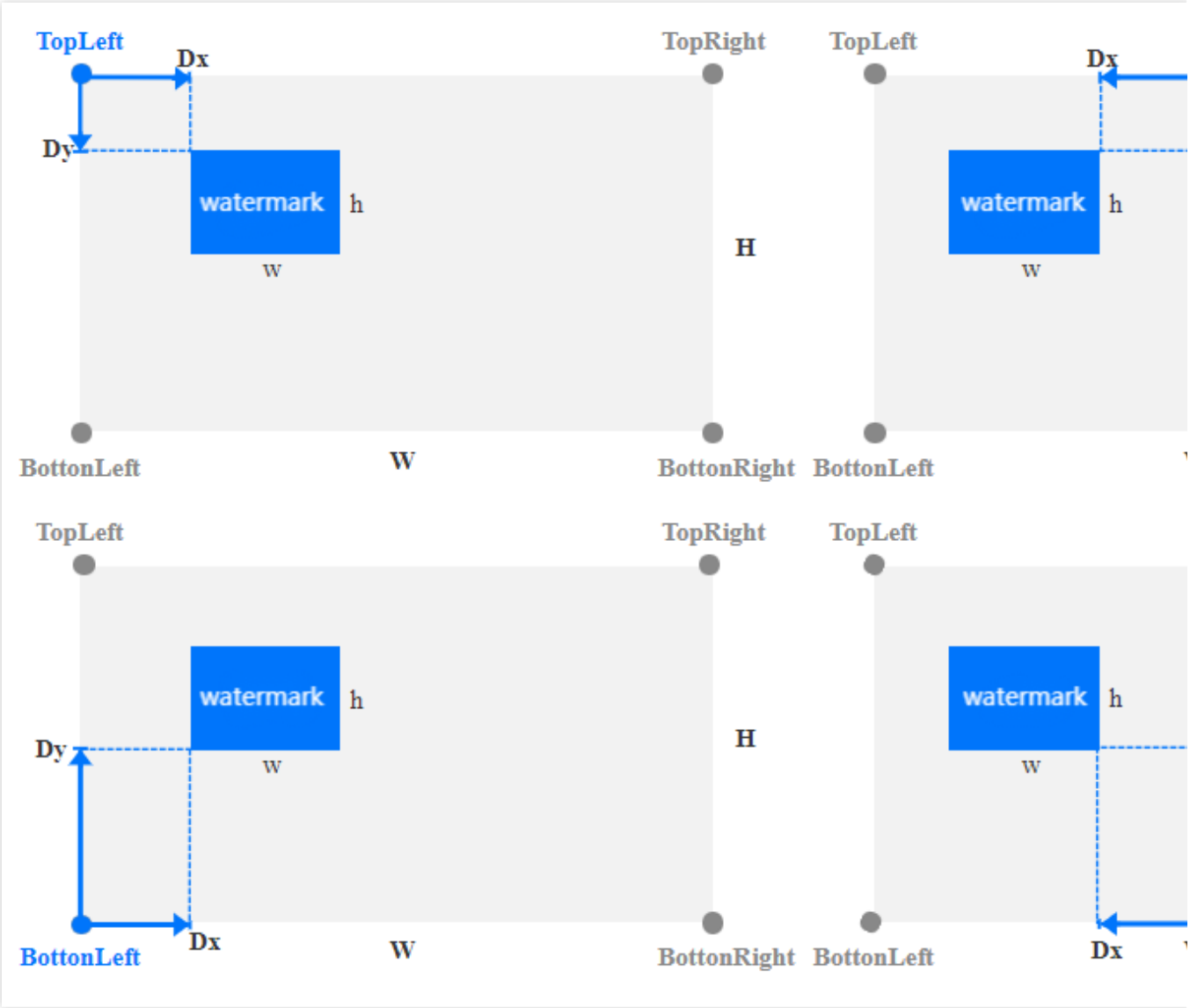

`Text` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
FontSize	Request.Watermark.Text	Font size	String	Yes	None	Value range: [5, 100]. Unit: px
FontType	Request.Watermark.Text	Font type	String	Yes	None	See the table below.
FontColor	Request.Watermark.Text	Font color	String	Yes	None	Format: 0xRRGGBB
Transparency	Request.Watermark.Text	Transparency	String	Yes	None	Value range: [1, 100]. Unit:

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						%
Text	Request.Watermark.Text	Watermark content	String	Yes	None	The value can contain up to 64 letters, digits, underscores (_), hyphens (-), and asterisks (*).

`FontType` has the following sub-nodes:

Font Name	Supported Language	Description
simfang.ttf	Chinese/English	FangSong
simhei.ttf	Chinese/English	SimHei
simkai.ttf	Chinese/English	KaiTi
simsun.ttc	Chinese/English	SimSun
STHeiti-Light.ttc	Chinese/English	STHeiti-Light
STHeiti-Medium.ttc	Chinese/English	STHeiti-Medium
youyuan.TTF	Chinese/English	YouYuan
ariblk.ttf	English	None
arial.ttf	English	None
ahronbd.ttf	English	None
Helvetica.dfont	English	None
HelveticaNeue.dfont	English	None

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

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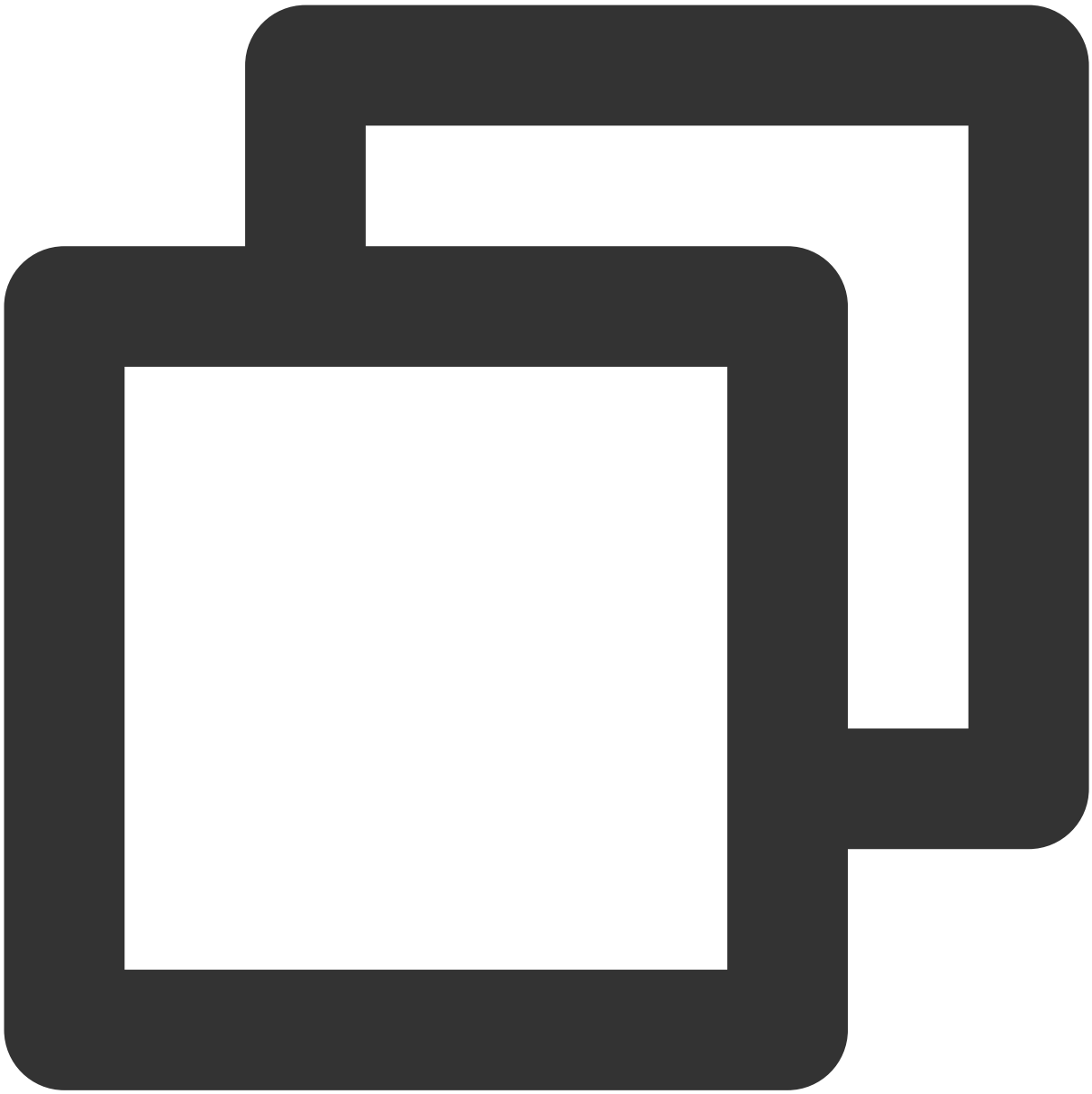
The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Tag>Watermark</Tag>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <Watermark>
            <Type>Text</Type>
```

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```
            <LocMode>Absolute</LocMode>
            <Dx>128</Dx>
            <Dy>128</Dy>
            <Pos>TopRight</Pos>
            <StartTime>0</StartTime>
            <EndTime>100.5</EndTime>
            <Text>
                <Text>Watermark content</Text>
                <FontSize>30</FontSize>
                <FontType></FontType>
                <FontColor>0xRRGGBB</FontColor>
                <Transparency>30</Transparency>
            </Text>
        </Watermark>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: Custom or Official	String
Tag	Response.Template	Template type: VideoProcess	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
Watermark	Response.Template	Same as `Request.Watermark` in the request body.	Container

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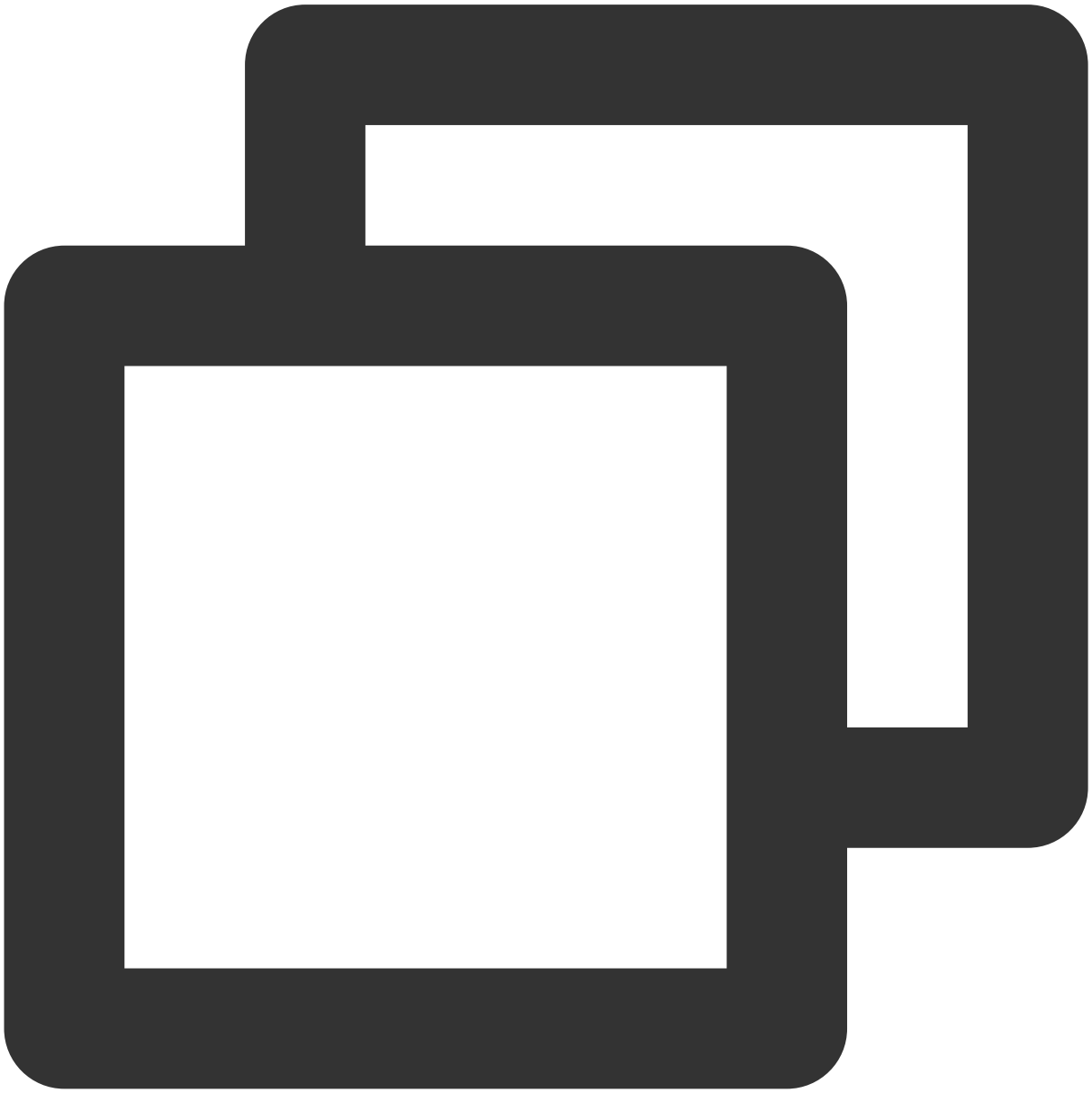
Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request 1: Text watermark



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```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0****&q-sign-tim
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
   <Tag>Watermark</Tag>
   <Name>TemplateName</Name>
   <Watermark>
      <Type>Text</Type>
      <LocMode>Absolute</LocMode>
      <Dx>128</Dx>
      <Dy>128</Dy>
      <Pos>TopRight</Pos>
      <StartTime>0</StartTime>
      <EndTime>100.5</EndTime>
      <Text>
        <Text>Watermark content</Text>
        <FontSize>30</FontSize>
        <FontType></FontType>
        <FontColor>0xRRGGBB</FontColor>
        <Transparency>30</Transparency>
      </Text>
   </Watermark>
</Request>
```

Response

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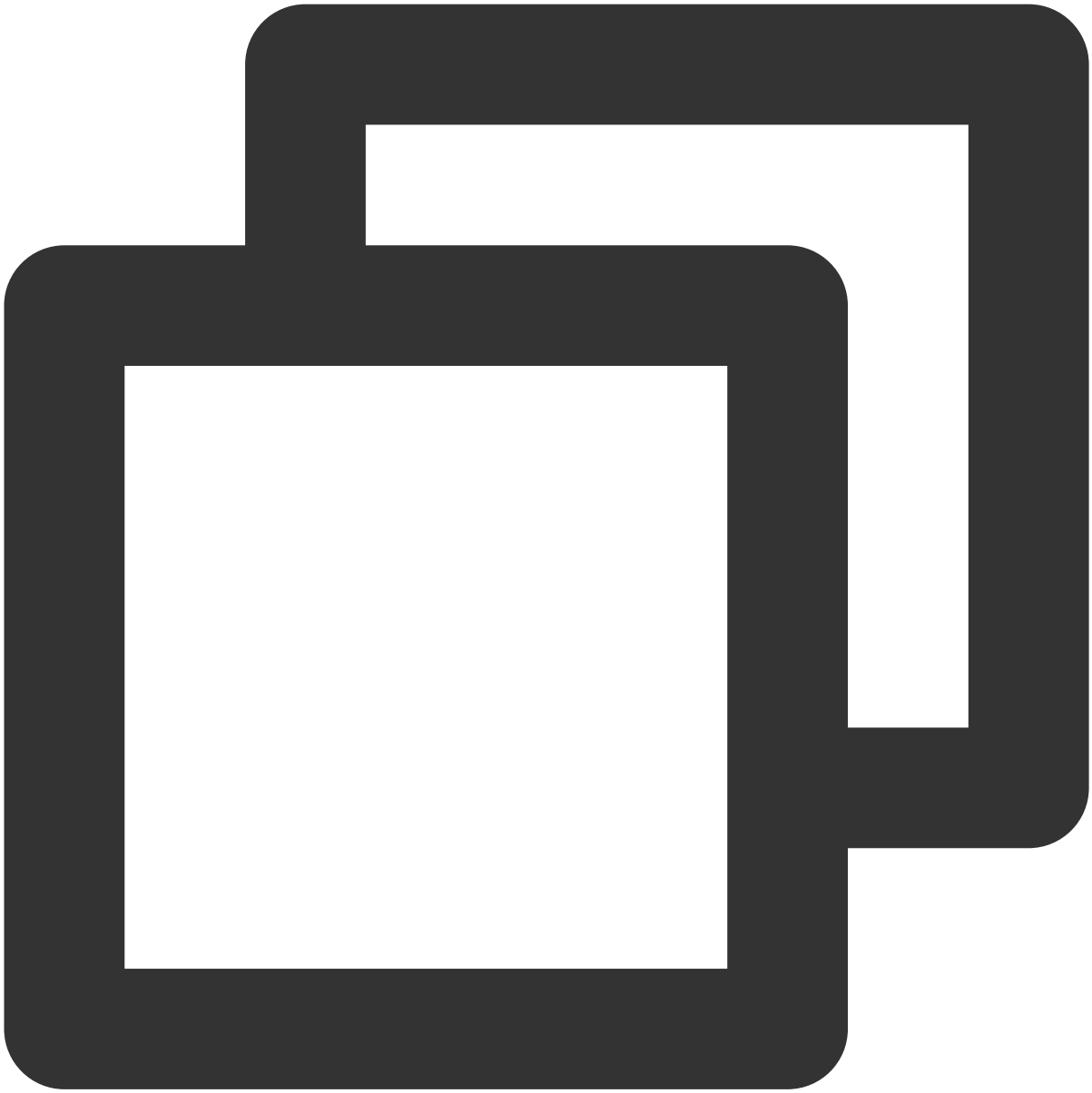

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
        <Tag>Watermark</Tag>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <Watermark>
            <Type>Text</Type>
            <LocMode>Absolute</LocMode>
            <Dx>128</Dx>
            <Dy>128</Dy>
            <Pos>TopRight</Pos>
            <StartTime>0</StartTime>
            <EndTime>100.5</EndTime>
            <Text>
                <Text>Watermark content</Text>
                <FontSize>30</FontSize>
                <FontType></FontType>
                <FontColor>0xRRGGBB</FontColor>
                <Transparency>30</Transparency>
            </Text>
        </Watermark>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

Request 2: Image watermark

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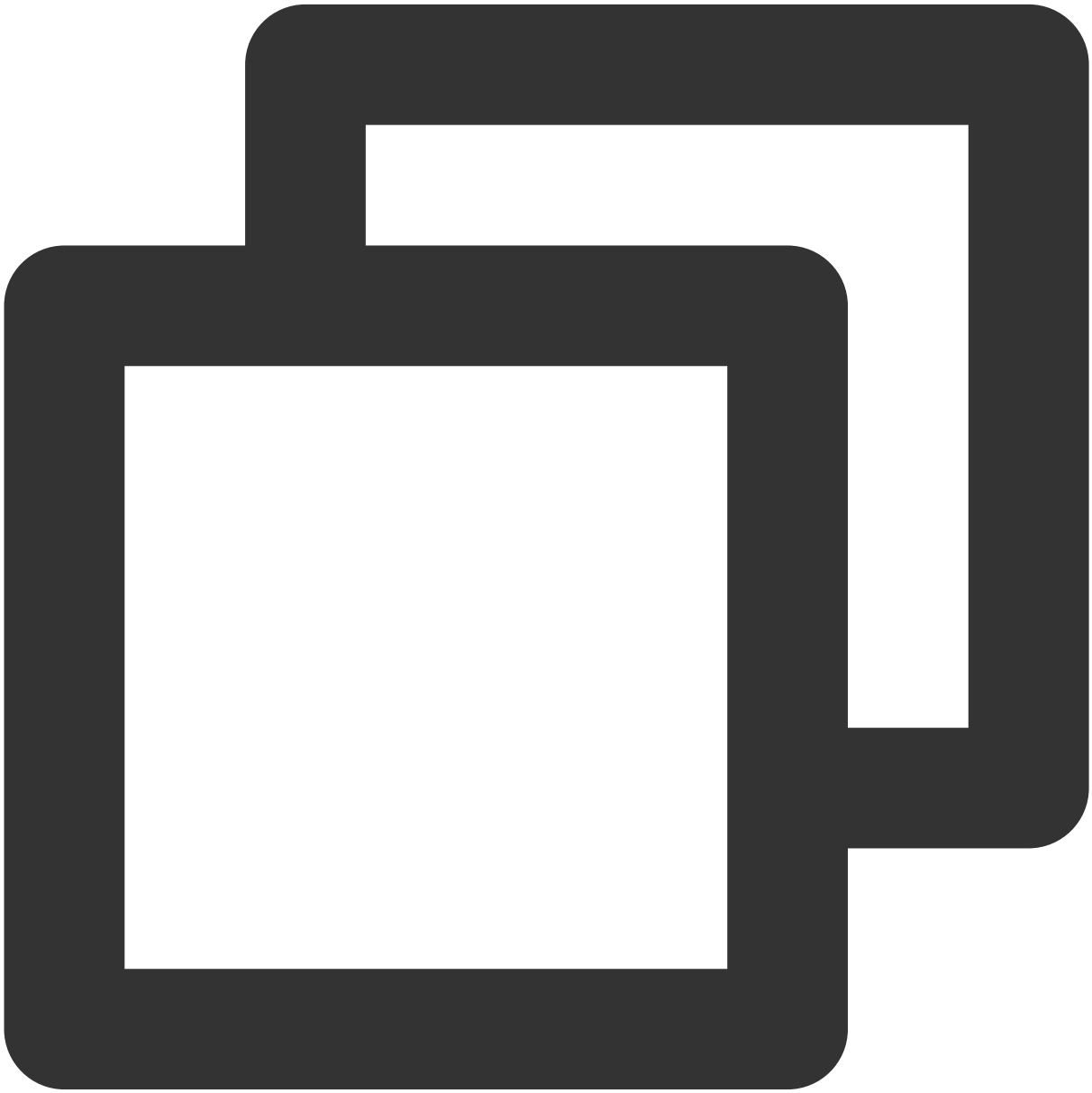

```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0****&q-sign-tim
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
   <Tag>Watermark</Tag>
   <Name>TemplateName</Name>
   <Watermark>
      <Type>Image</Type>
```

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```
        <LocMode>Absolute</LocMode>
        <Dx>128</Dx>
        <Dy>128</Dy>
        <Pos>TopRight</Pos>
        <StartTime>0</StartTime>
        <EndTime>100.5</EndTime>
        <Image>
          <Url>http://test-1234567890.ci.ap-beijing.myqcloud.com/shuiyin_2.png</Url>
          <Mode>Proportion</Mode>
          <Width>10</Width>
          <Height>10</Height>
          <Transparency>30</Transparency>
        </Image>
    </Watermark>
</Request>
```

Response

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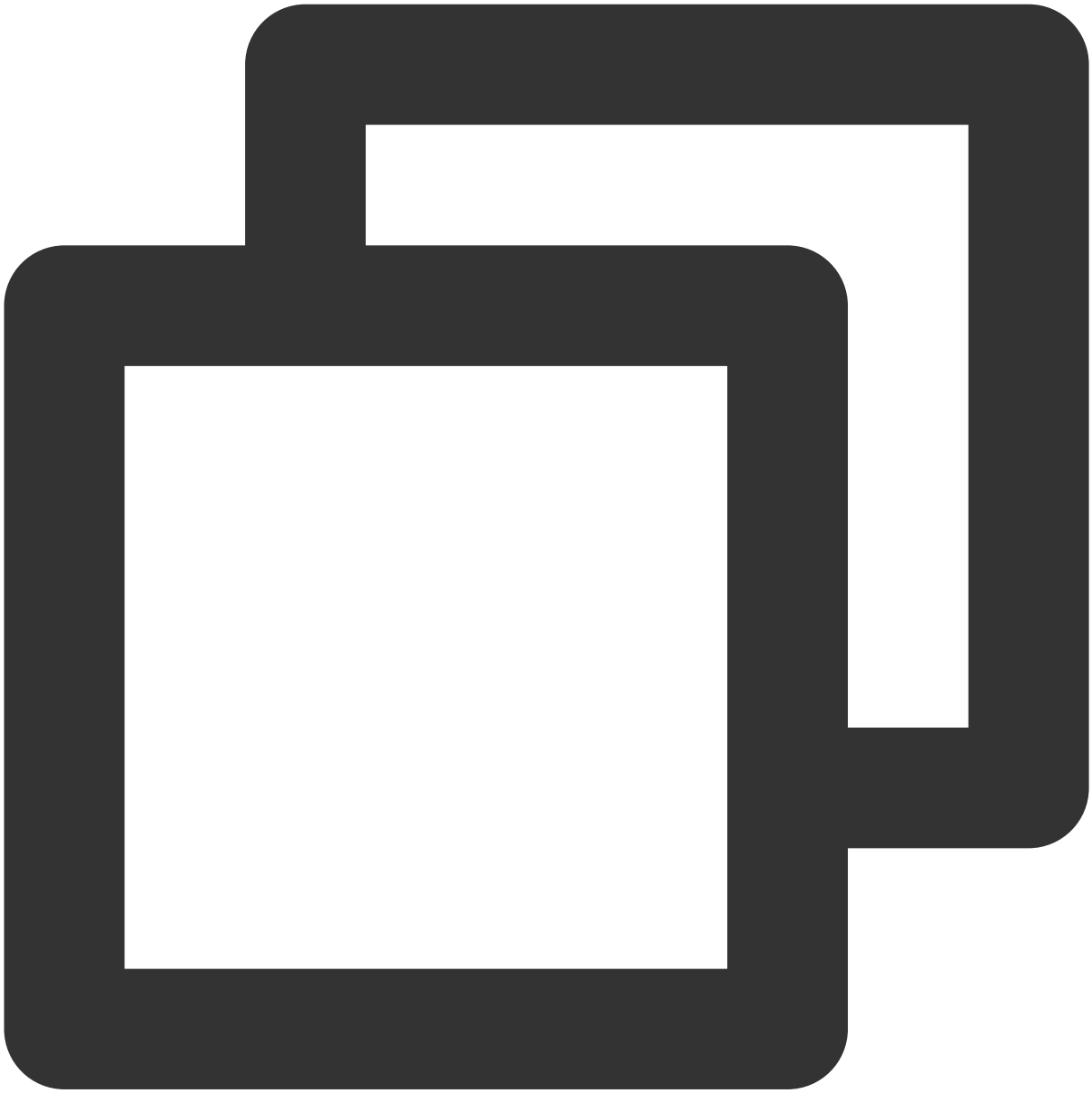

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
        <Tag>Watermark</Tag>
        <Name>TemplateName</Name>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <Watermark>
            <Type>Image</Type>
            <LocMode>Absolute</LocMode>
            <Dx>128</Dx>
            <Dy>128</Dy>
            <Pos>TopRight</Pos>
            <StartTime>0</StartTime>
            <EndTime>100.5</EndTime>
            <Image>
                <Url>http://test-1234567890.ci.ap-beijing.myqcloud.com/shuiyin_2.pn
                <Mode>Proportion</Mode>
                <Width>10</Width>
                <Height>10</Height>
                <Transparency>30</Transparency>
            </Image>
        </Watermark>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Creating Intelligent Thumbnail Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create an intelligent thumbnail template.

Request

Sample request

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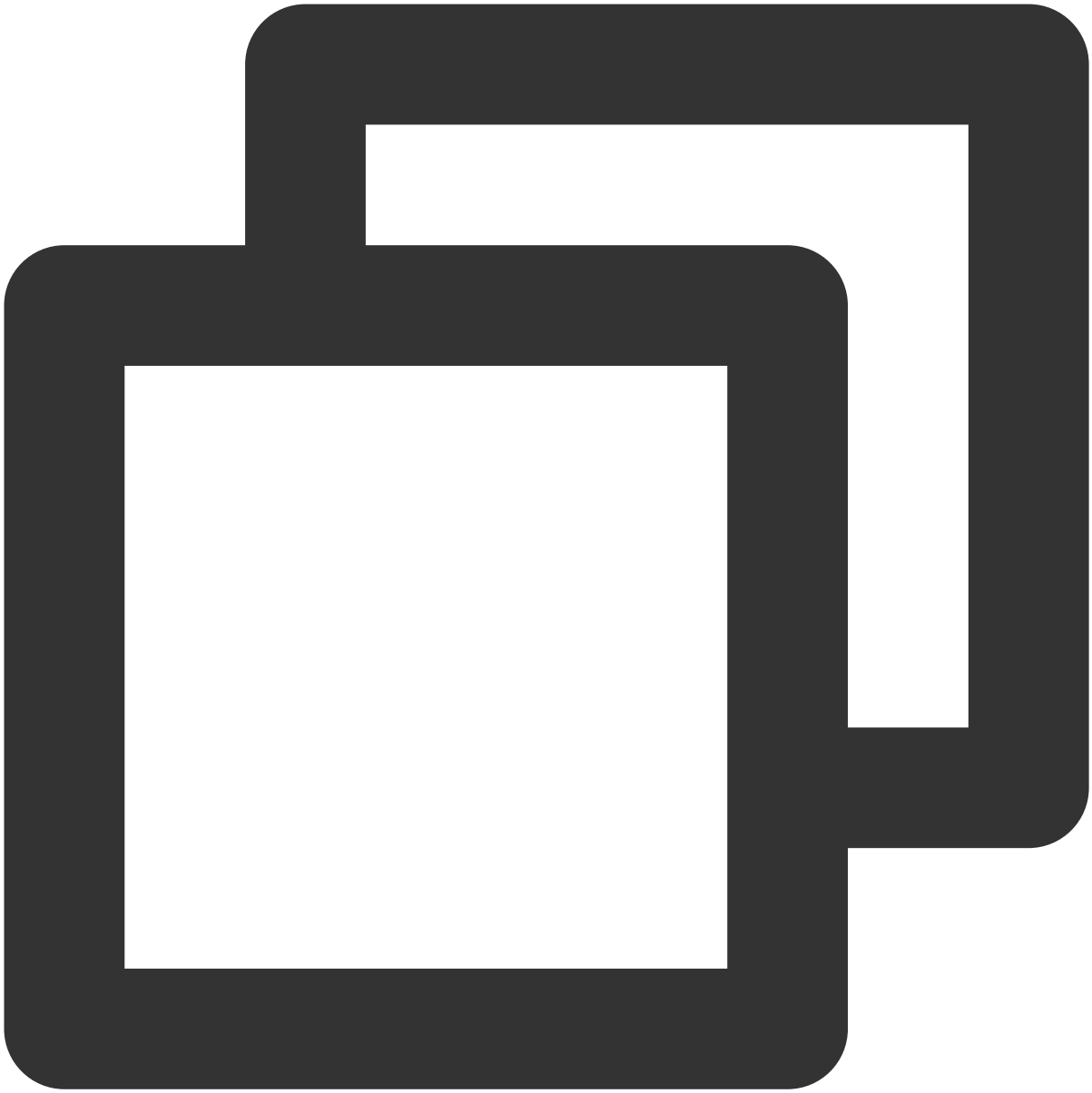

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

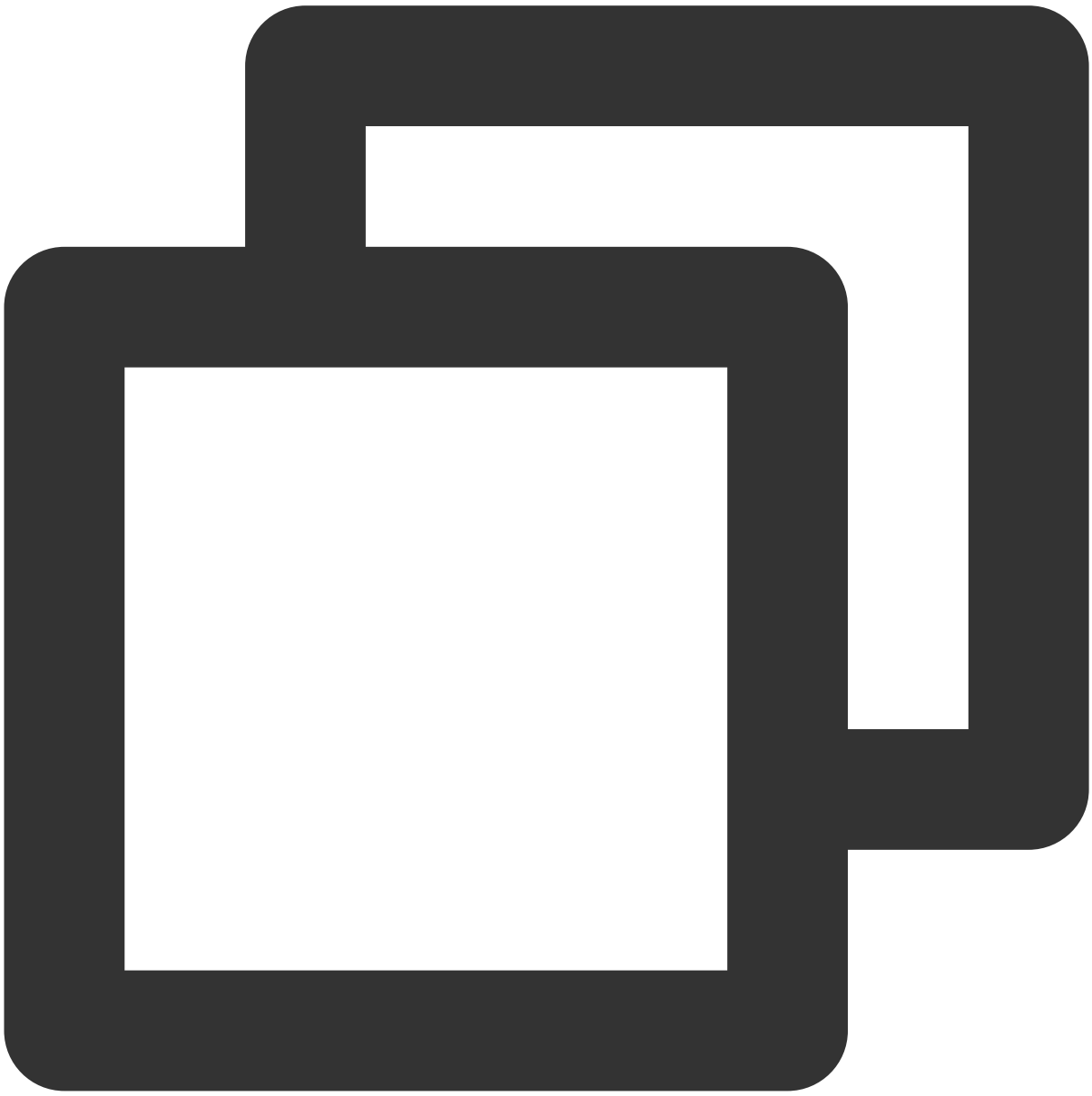
When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>SmartCover</Tag>
    <Name>TemplateName</Name>
    <SmartCover>
        <Format>jpg</Format>
        <Width>1280</Width>
        <Height>960</Height>
        <Count>10</Count>
        <DeleteDuplicates>true</DeleteDuplicates>
    </SmartCover>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Template tag: SmartCover	String	Yes
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes
SmartCover	Request	Intelligent thumbnail parameter	Container	Yes

`SmartCover` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Format	Request.SmartCover	Image format	String	No	jpg	jpg, png, webp
Width	Request.SmartCover	Width	String	No	Original video width	Value range: [128, 4096]

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						Unit: px If only `Width` is set, `Height` is calculated based on the original video aspect ratio.
Height	Request.SmartCover	Height	String	No	Original video height	Value range: [128, 4096] Unit: px If only `Height` is set, `Width` is calculated based on the original video aspect ratio.
Count	Request.SmartCover	Number of screenshots	String	No	3	[1,10]
DeleteDuplicates	Request.SmartCover	Whether to deduplicate thumbnails.	String	No	false	true/false

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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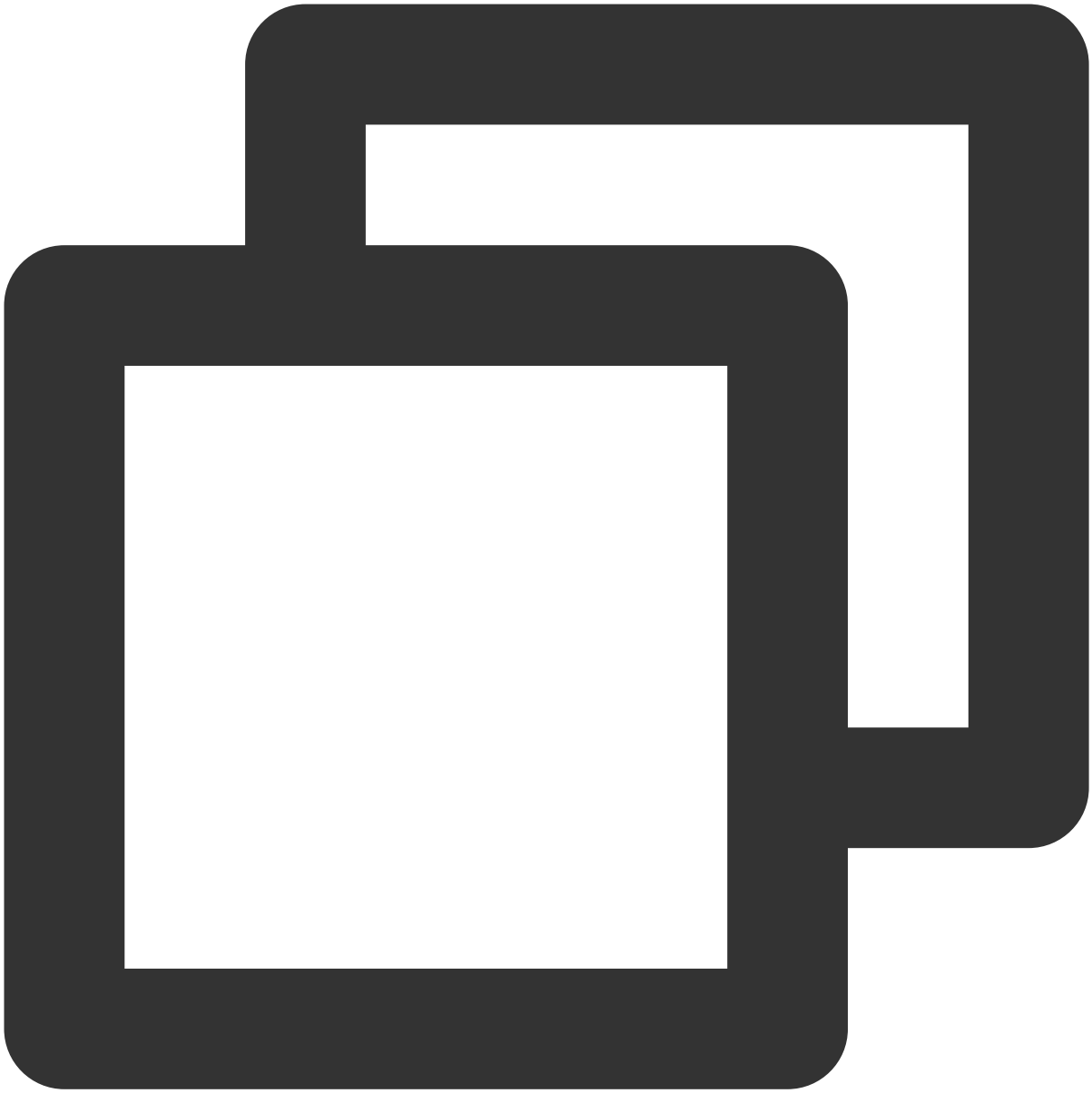

```
<Response>
    <Template>
        <Tag>SmartCover</Tag>
        <Name>TemplateName</Name>
        <TemplateId>t1f43110a08702470b8fa75894629501fa</TemplateId>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SmartCover>
            <Width>1280</Width>
            <Height>960</Height>
            <Format>jpg</Format>
```

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```
            <Count>5</Count>
            <DeleteDuplicates>false</DeleteDuplicates>
        </SmartCover>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Tag	Response.Template	Template tag: SmartCover	String
Name	Response.Template	Template name	String
BucketId	Response.Template	Template bucket	String
Category	Response.Template	Template category: `Custom` or `Official`	String
TemplateId	Response.Template	Template ID	String
UpdateTime	Response.Template	Update time	String
CreateTime	Response.Template	Creation time	String
SmartCover	Response.Template	Template parameter, which is the same as `SmartCover` in the request body.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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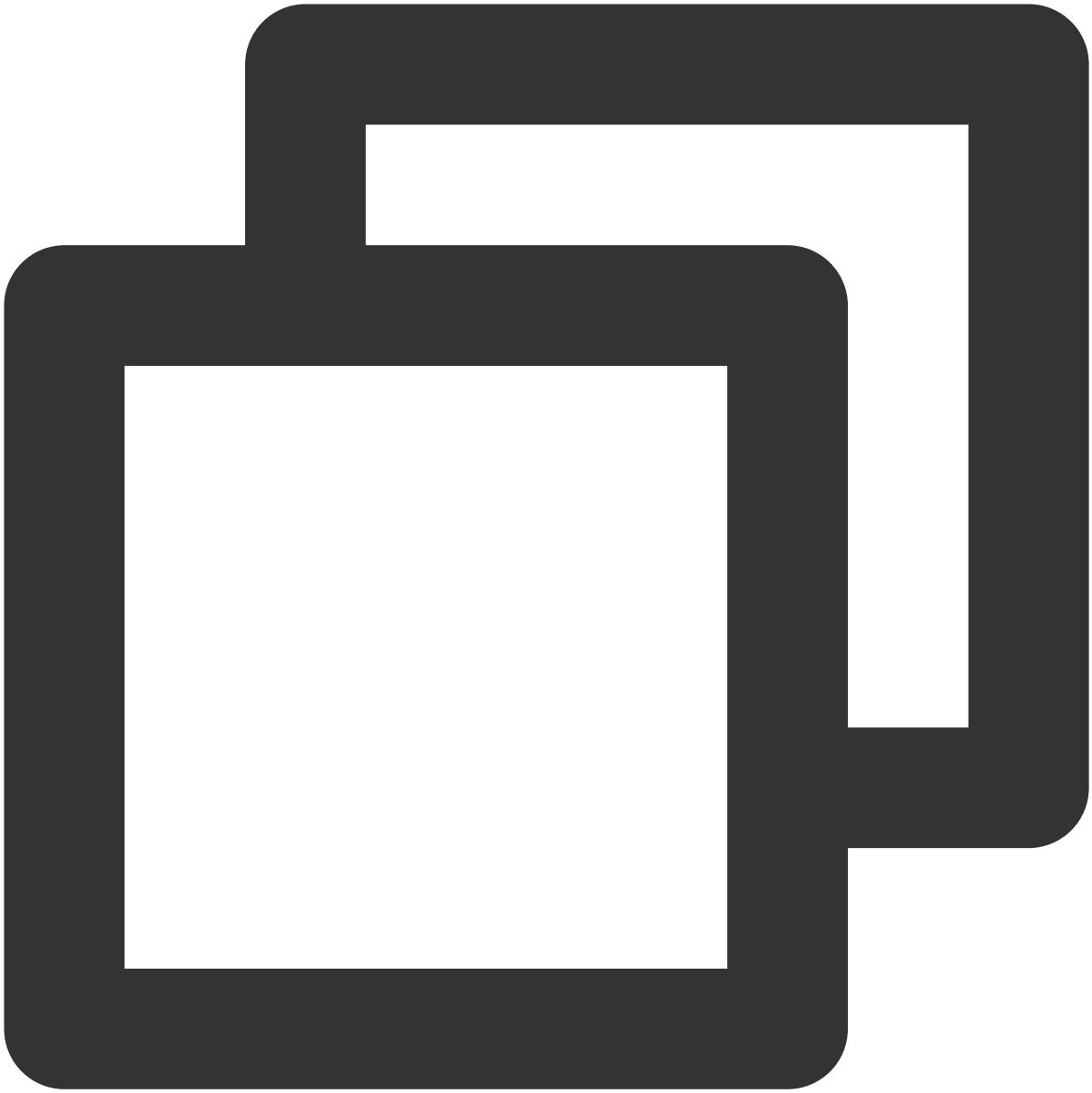

```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>SmartCover</Tag>
    <Name>TemplateName</Name>
    <SmartCover>
        <Format>jpg</Format>
```

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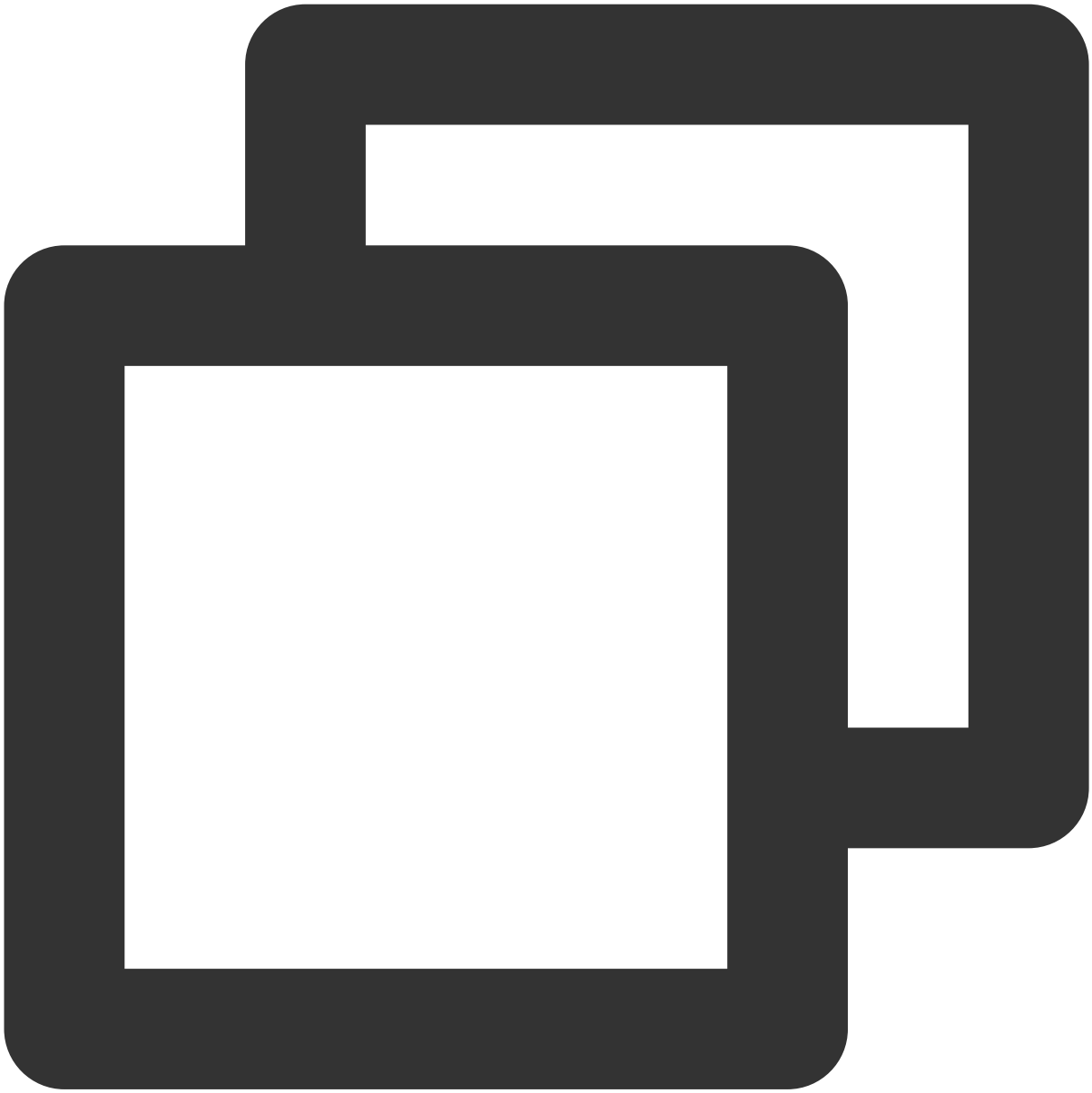
```
        <Width>1280</Width>
        <Height>960</Height>
        <Count>10</Count>
        <DeleteDuplicates>true</DeleteDuplicates>
    </SmartCover>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <Template>
        <Tag>SmartCover</Tag>
        <Name>TemplateName</Name>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SmartCover>
            <Format>jpg</Format>
            <Width>1280</Width>
            <Height>960</Height>
            <Count>10</Count>
            <DeleteDuplicates>true</DeleteDuplicates>
        </SmartCover>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Deleting Media Processing Template DeleteMediaTemplate

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to delete a template.

Request

Sample request

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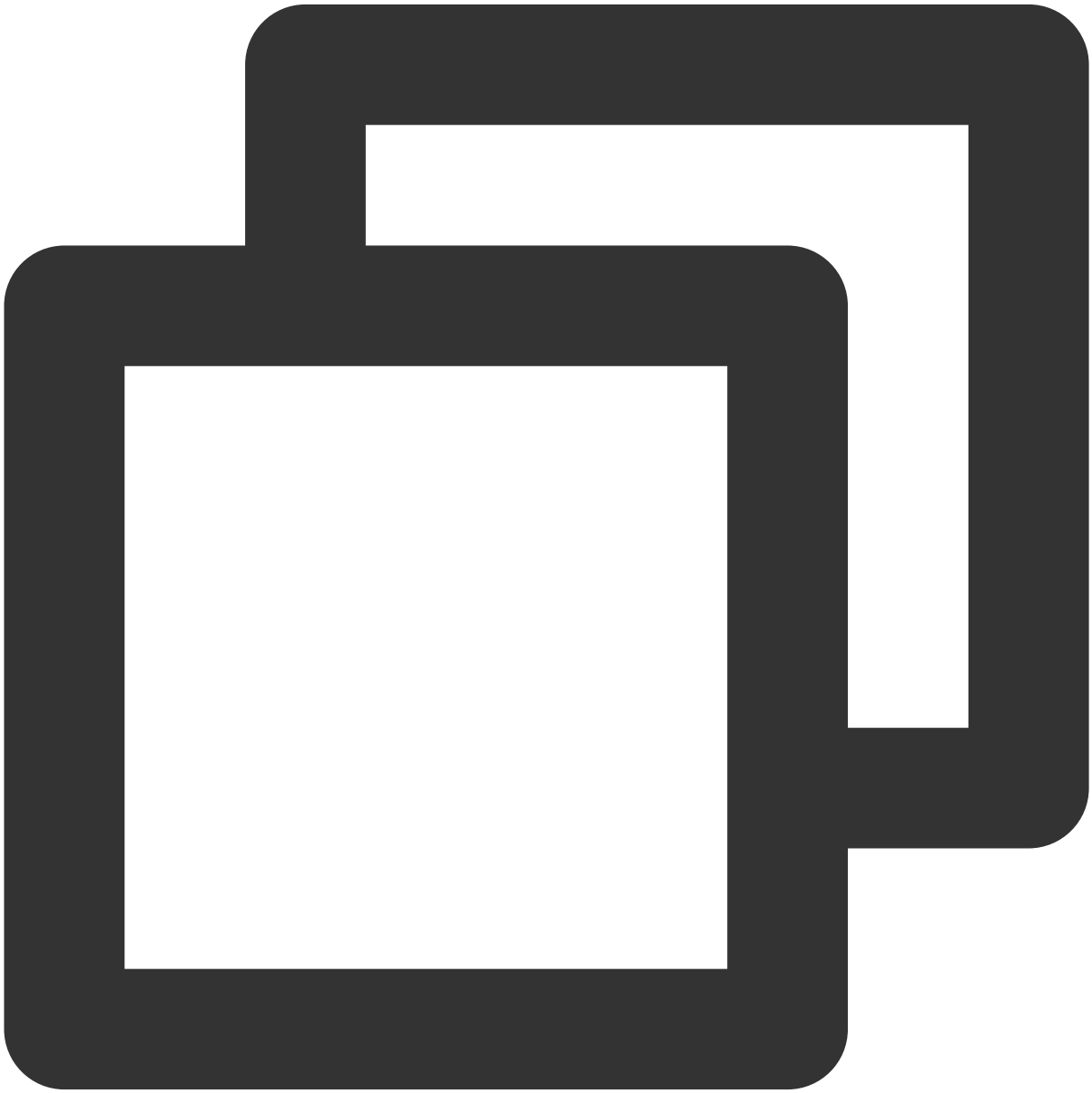

```
DELETE /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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Request headers

Common request headers

This API uses common request headers. For more information, see Common Request Headers.

Non-common request headers

This request operation does not use any non-common request headers.

Request body

The request body of this request is empty.

Response

Response headers

Common response headers

This response contains common response headers. For more information, see Common Response Headers.

Non-common response headers

This response does not use any non-common response header.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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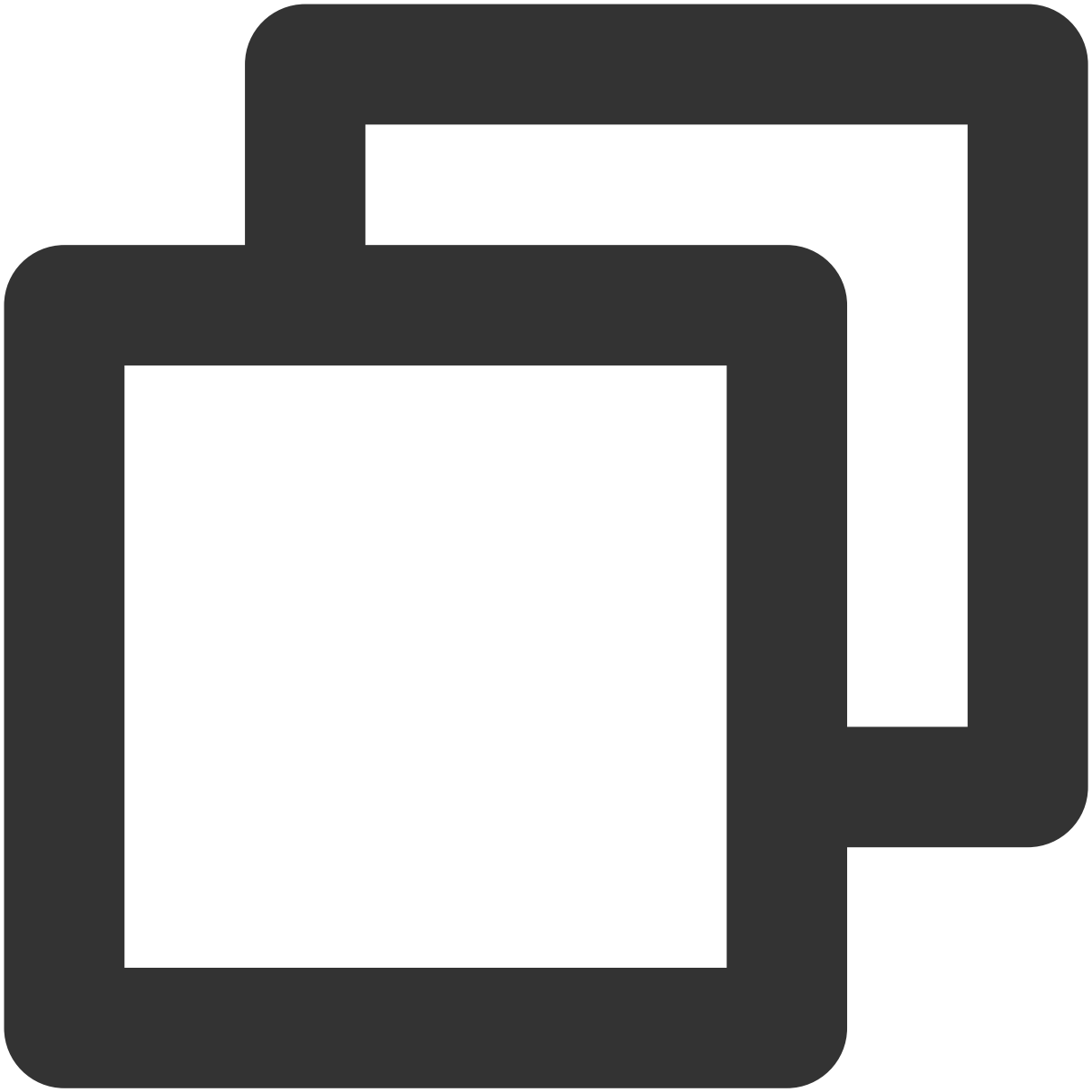

```
<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhfMjc=</RequestId>
    <TemplateId>A</TemplateId>
<Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
TemplateId	Response	ID of the deleted template	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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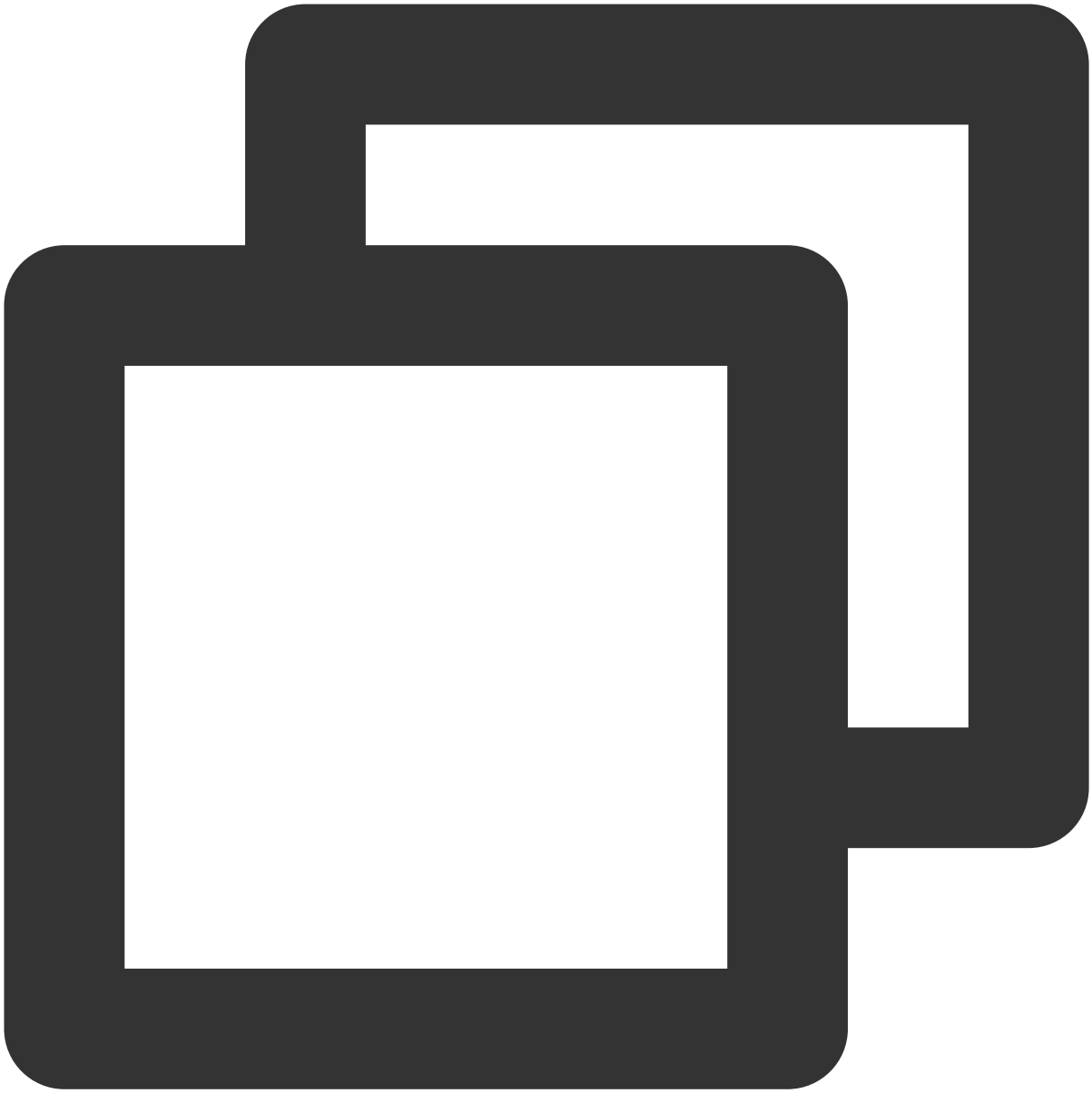

```
DELETE /template/t143ae6e040af6431aa772c9ec3f0a3f36 HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR98****-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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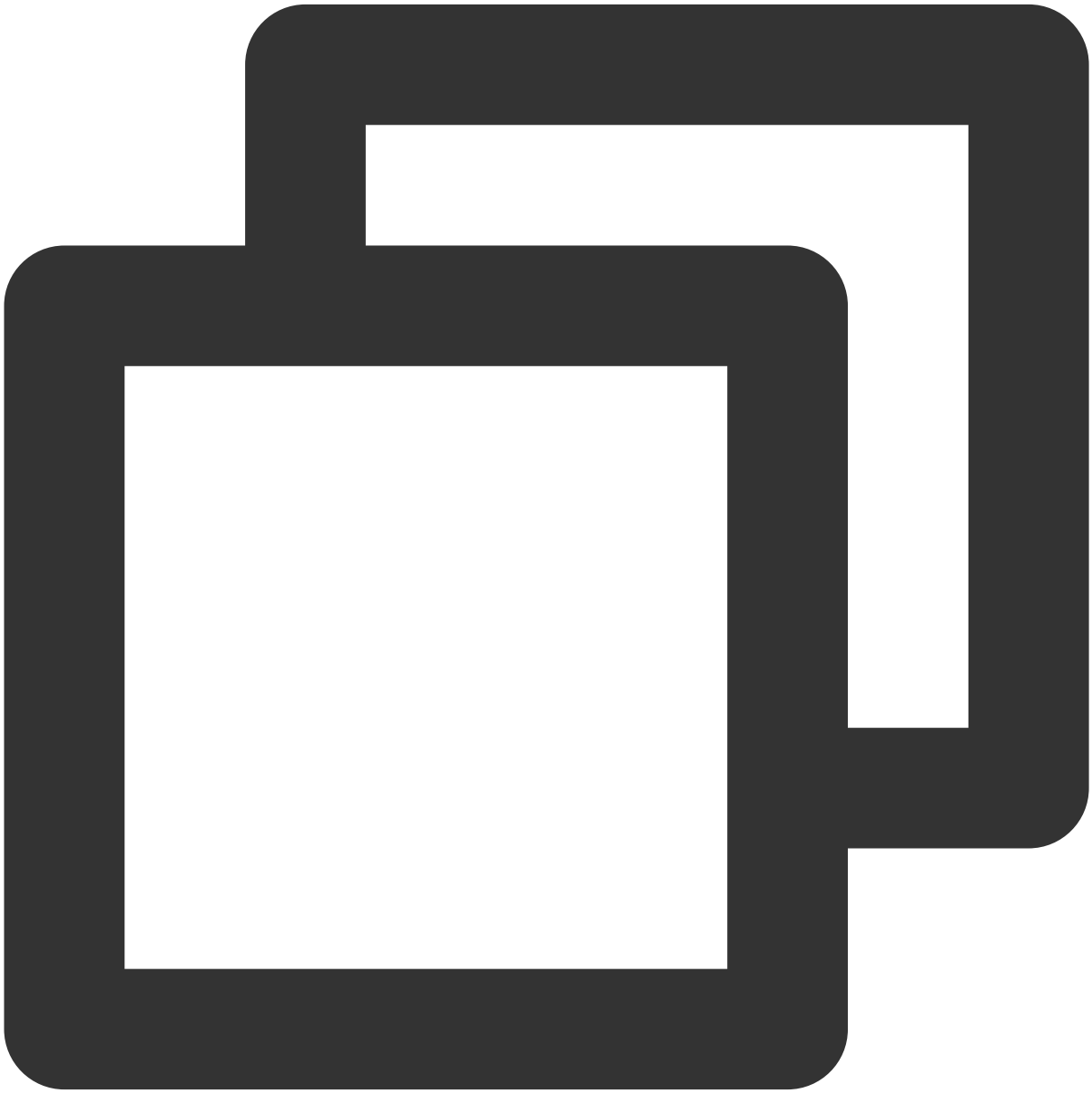

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NjJjYmU0YmRfOTBmYTUwNjRfODhjXzE=

<Response>
    <RequestId>NjJjYmU0YmRfOTBmYTUwNjRfODhjXzE=</RequestId>
    <TemplateId>t143ae6e040af6431aa772c9ec3f0a3f36</TemplateId>
```

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```
<Response>
```

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Querying Media Processing Template DescribeMediaTemplates

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to query a template.

Request

Sample request

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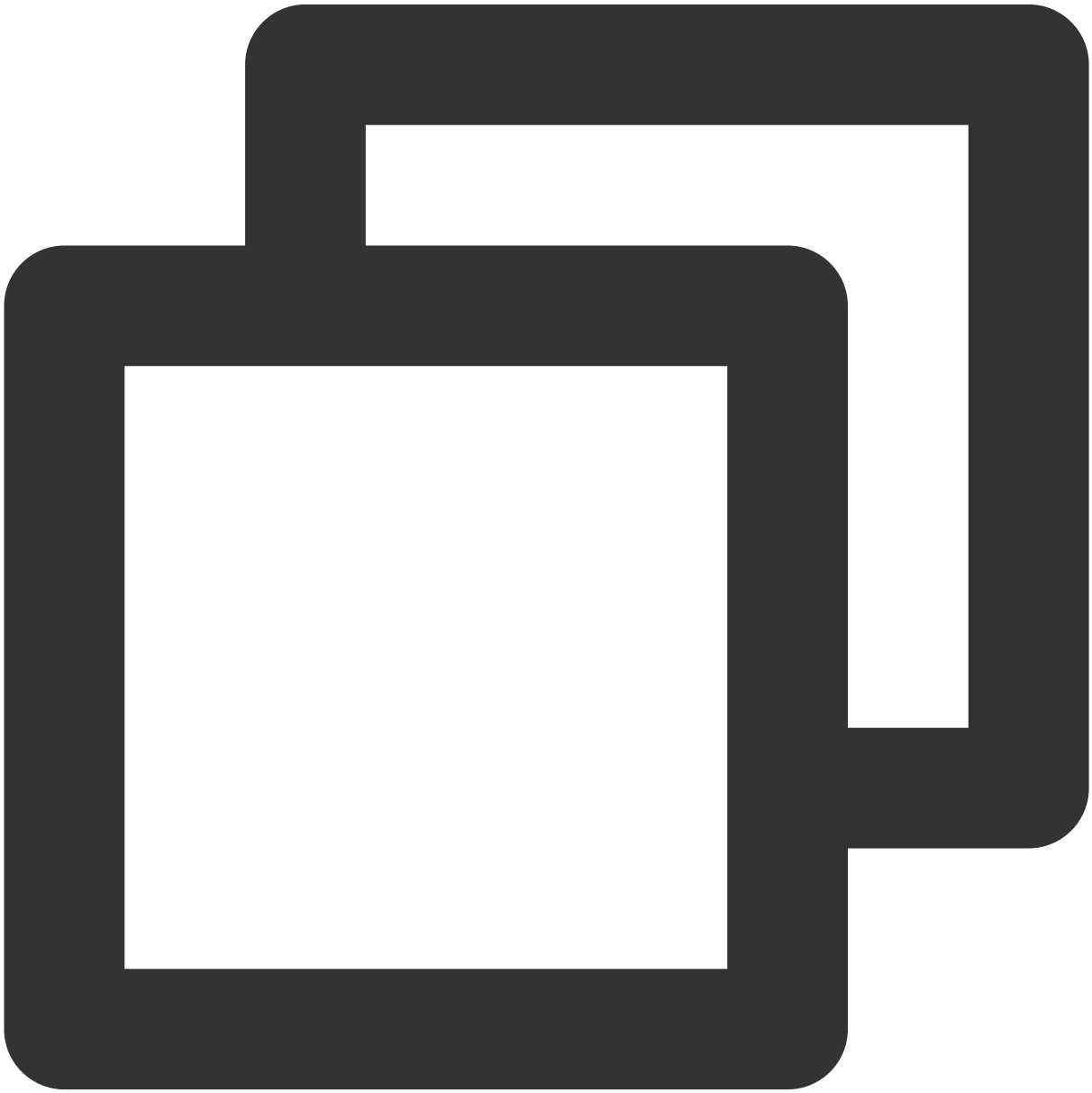

```
GET /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

The parameters are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
tag	None	Template tag. Default value: `All`.	String	No
category	None	Valid values: `Official` (system preset template); `Custom` (custom template). Default value: `Custom`.	String	No
ids	None	Template ID. If you enter multiple IDs, separate them by comma.	String	No
name	None	Template name prefix	String	No
pageNumber	None	Page number. Default value: `1`.	Integer	No
pageSize	None	Number of entries per page. Default value: `10`.	Integer	No

Supported `tag` types are as follows:

Template type	tag
Audio/Video transcoding	Transcode
Video-to-animated image conversion	Animation
Screenshot	Snapshot
Audio/Video splicing	Concat
Voice/Sound separation	VoiceSeparate
Video montage	VideoMontage
Video enhancement	VideoProcess
Super resolution	SuperResolution

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Image/Text watermark	Watermark
Text to speech	Tts
Professional audio/video transcoding	TranscodePro
Top speed codec transcoding	HighSpeedHd

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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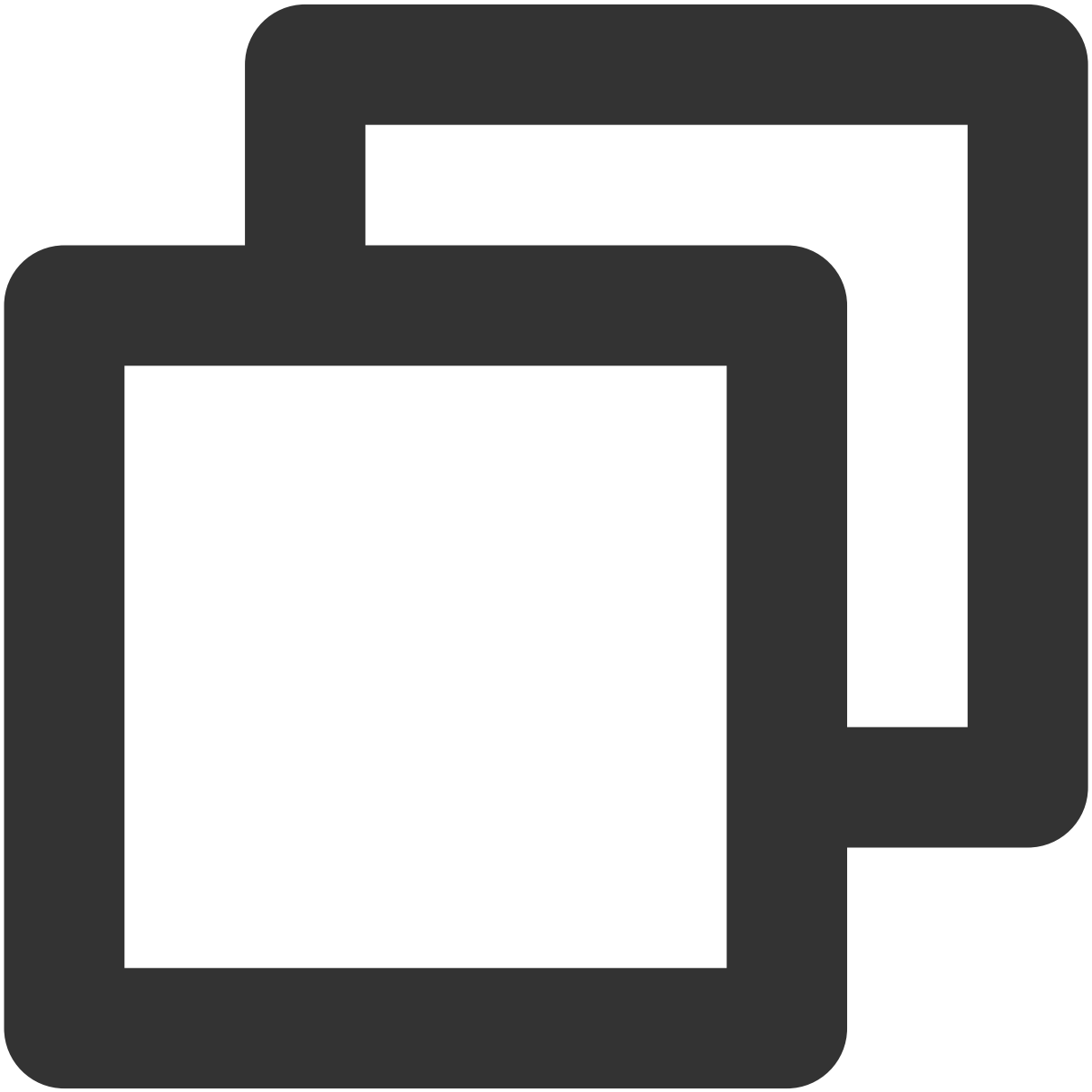

```
<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhfMjc=</RequestId>
    <TotalCount>1</TotalCount>
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <TemplateList>
        <TemplateId>A</TemplateId>
        <Name>TemplateName</Name>
        <Tag>Transcode</Tag>
        <TransTpl>
            <Container>
```

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```
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Profile>high</Profile>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
                <Preset>medium</Preset>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
            </Audio>
            <TransConfig>
                <AdjDarMethod>scale</AdjDarMethod>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </TransTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </TemplateList>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
TotalCount	Response	Total number of templates	Int
PageNumber	Response	Current page number, which is the same as `pageNumber`	Int

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		in the request.	
PageSize	Response	Number of entries per page, which is the same as `pageSize` in the request.	Int
TemplateList	Response	Template array	Container array

For different types of templates, the `TemplateList` content is the same as the `Response` of the corresponding template creation API. For more information, see:

Creating Audio/Video Transcoding Template
Creating Animated Image Template
Creating Screenshot Template
Creating Splicing Template
Creating Voice/Sound Separation Template
Creating Video Montage Template
Creating Video Enhancement Template
Creating Super Resolution Template
Creating Watermark Template
Creating Text-to-Speech Template
Creating Professional Transcoding Template
Creating Top Speed Codec Transcoding Template

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Sample 1. Querying by template ID

Request

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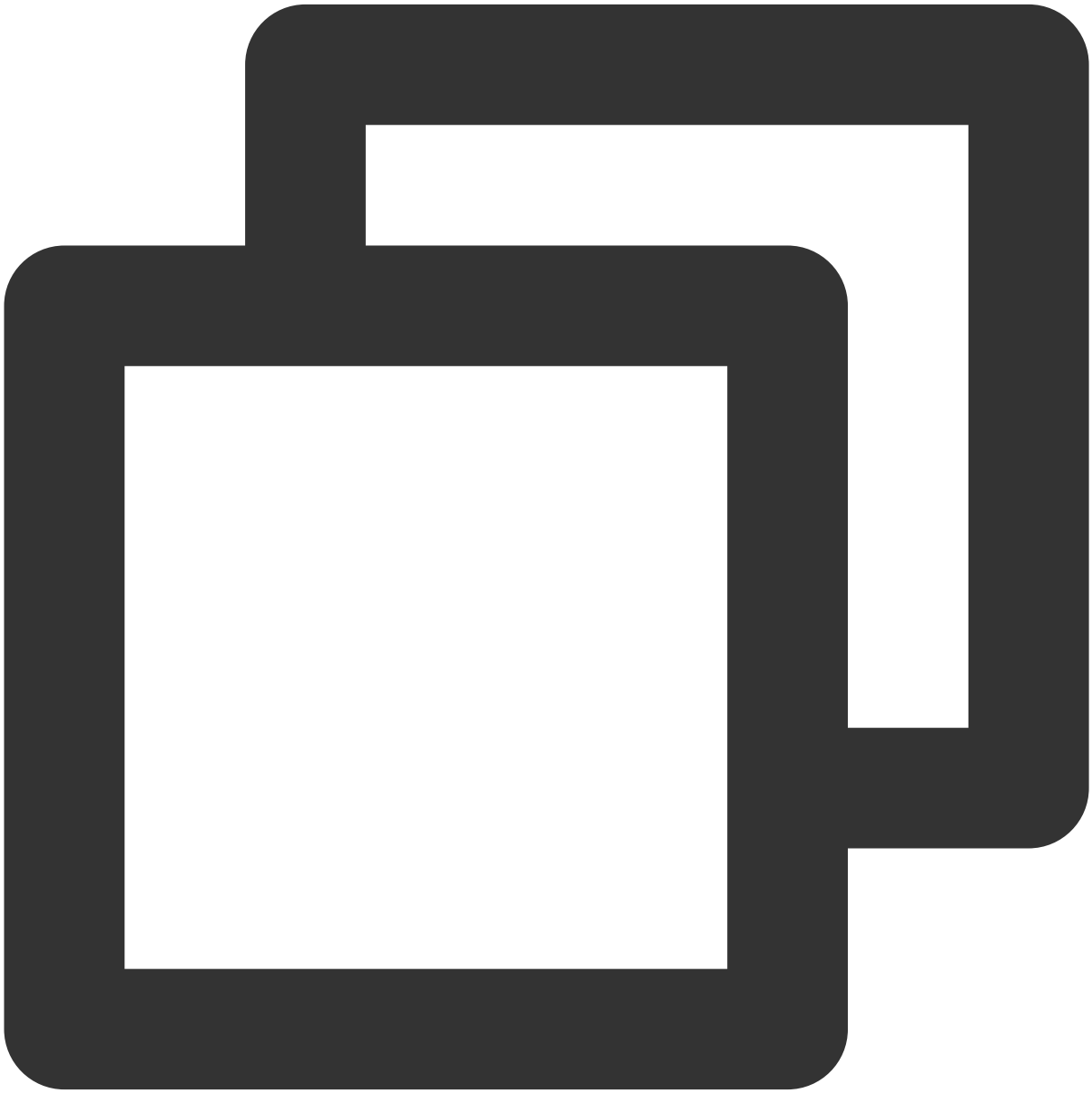

```
GET /template?ids=t1847cd4ca57f543e89f551dbe68169eb9,t1a30a323f55434a29b25bf2a16bdf
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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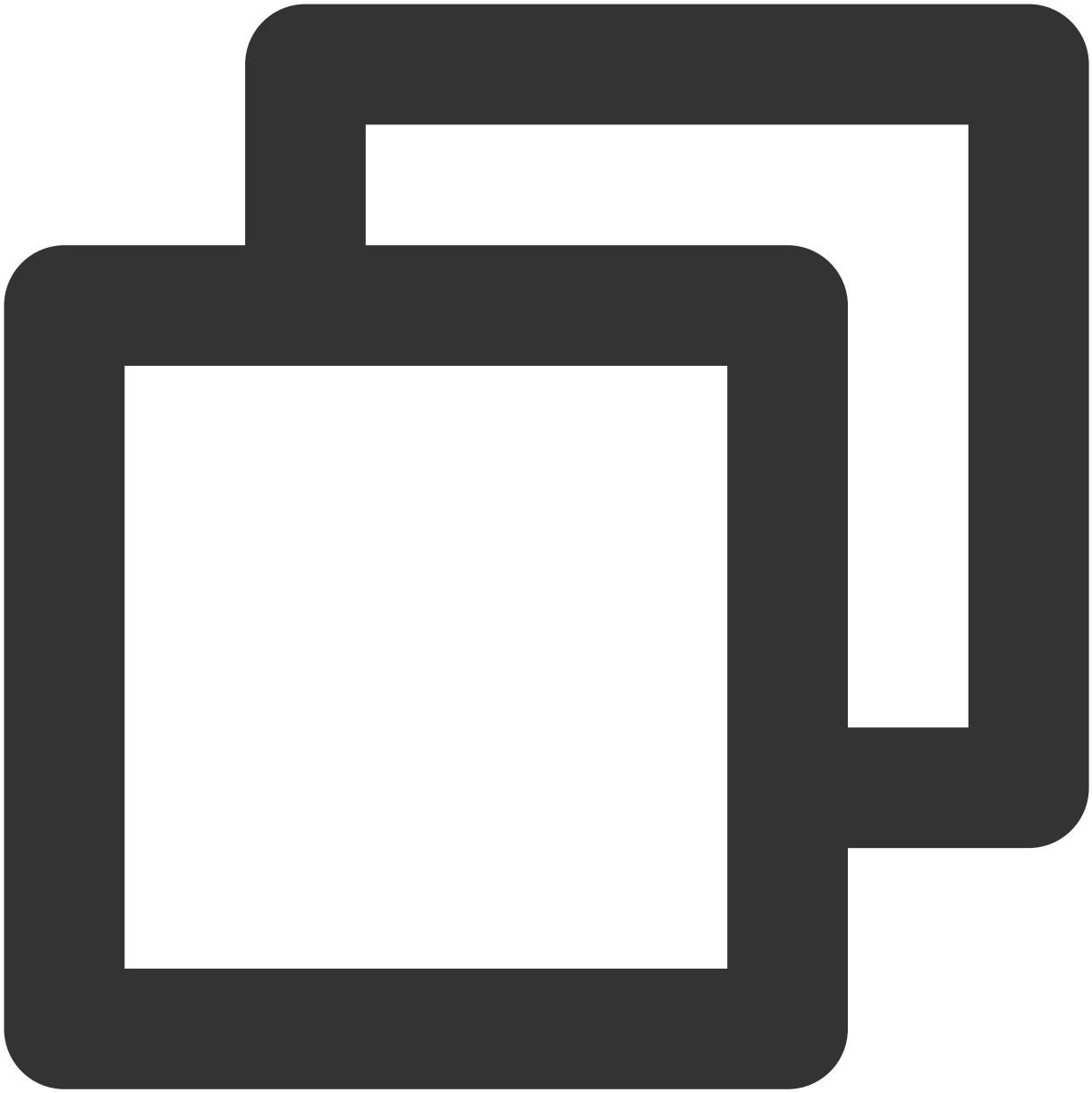

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <TemplateList>
```

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```
        <TemplateId>t1847cd4ca57f543e89f551dbe68169eb9</TemplateId>
        <Name>TemplateName</Name>
        <Tag>Transcode</Tag>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <TransTpl>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Profile>high</Profile>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
                <Preset>medium</Preset>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
            </Audio>
            <TransConfig>
                <AdjDarMethod>scale</AdjDarMethod>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </TransTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </TemplateList>
    <TemplateList>
        <TemplateId>t140325e8918ac423da53b7d78dbbab564</TemplateId>
        <Name>template_name3544697</Name>
        <Tag>Concat</Tag>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <ConcatTemplate>
            <ConcatFragment>
                <Mode>Start</Mode>
                <Url>https://test-1234567890.cos.ap-chongqing.myqcloud.com/input/ad
            </ConcatFragment>
```

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```
            <Audio>
                <Codec>aac</Codec>
                <Samplerate/>
                <Bitrate/>
                <Channels/>
                <Remove>false</Remove>
            </Audio>
            <Video>
                <Codec>H.264</Codec>
                <Width>1280</Width>
                <Height>960</Height>
                <Fps>15</Fps>
                <Remove>false</Remove>
                <Crf>25</Crf>
            </Video>
            <Container>
                <Format>mp4</Format>
            </Container>
            <DirectConcat>false</DirectConcat>
        </ConcatTemplate>
        <CreateTime>2022-06-29T14:37:44+0800</CreateTime>
        <UpdateTime>2022-06-29T14:37:44+0800</UpdateTime>
    </TemplateList>
    <NonExistTIDs>
        <TemplateId>C</TemplateId>
    </NonExistTIDs>
</Response>
```

Sample 2. Querying by paginated list

Request

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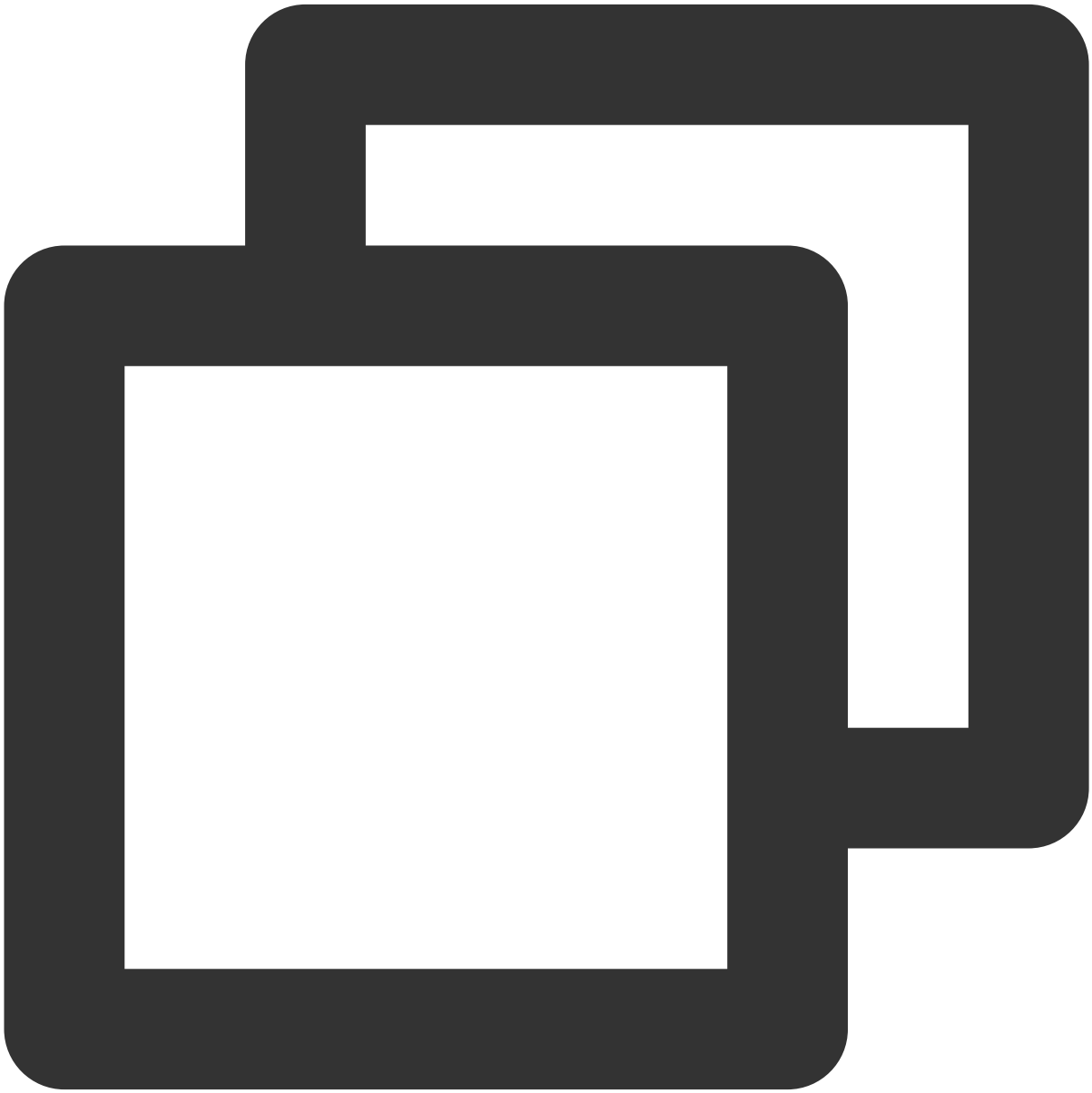

```
GET /template?pageSize=10&pageNumber=1 HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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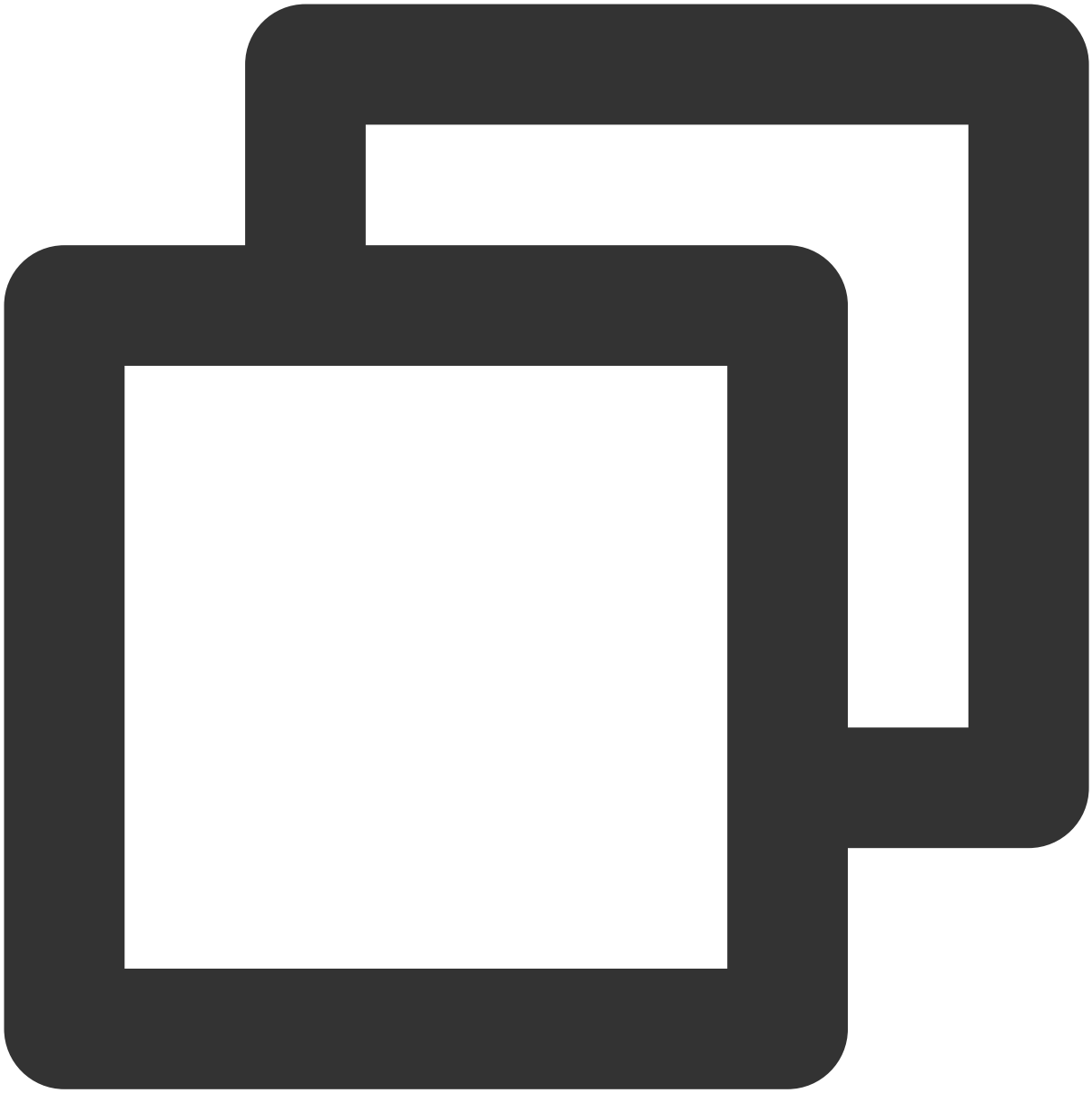

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <TotalCount>2</TotalCount>
```

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```
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <TemplateList>
        <TemplateId>t1847cd4ca57f543e89f551dbe68169eb9</TemplateId>
        <Name>TemplateName</Name>
        <Tag>Transcode</Tag>
        <TransTpl>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Profile>high</Profile>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
                <Preset>medium</Preset>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
            </Audio>
            <TransConfig>
                <AdjDarMethod>scale</AdjDarMethod>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </TransTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </TemplateList>
    <TemplateList>
        <TemplateId>t140325e8918ac423da53b7d78dbbab564</TemplateId>
        <Name>template_name3544697</Name>
        <Tag>Concat</Tag>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <ConcatTemplate>
            <ConcatFragment>
                <Mode>Start</Mode>
                <Url>https://test-1234567890.cos.ap-chongqing.myqcloud.com/input/ad
```

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```
            </ConcatFragment>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate/>
                <Bitrate/>
                <Channels/>
                <Remove>false</Remove>
            </Audio>
            <Video>
                <Codec>H.264</Codec>
                <Width>1280</Width>
                <Height>960</Height>
                <Fps>15</Fps>
                <Remove>false</Remove>
                <Crf>25</Crf>
            </Video>
            <Container>
                <Format>mp4</Format>
            </Container>
            <DirectConcat>false</DirectConcat>
        </ConcatTemplate>
        <CreateTime>2022-06-29T14:37:44+0800</CreateTime>
        <UpdateTime>2022-06-29T14:37:44+0800</UpdateTime>
    </TemplateList>
</Response>
```

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Updating Media Processing Template
Updating Animated Image Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update an animated image template.

Request

Sample request

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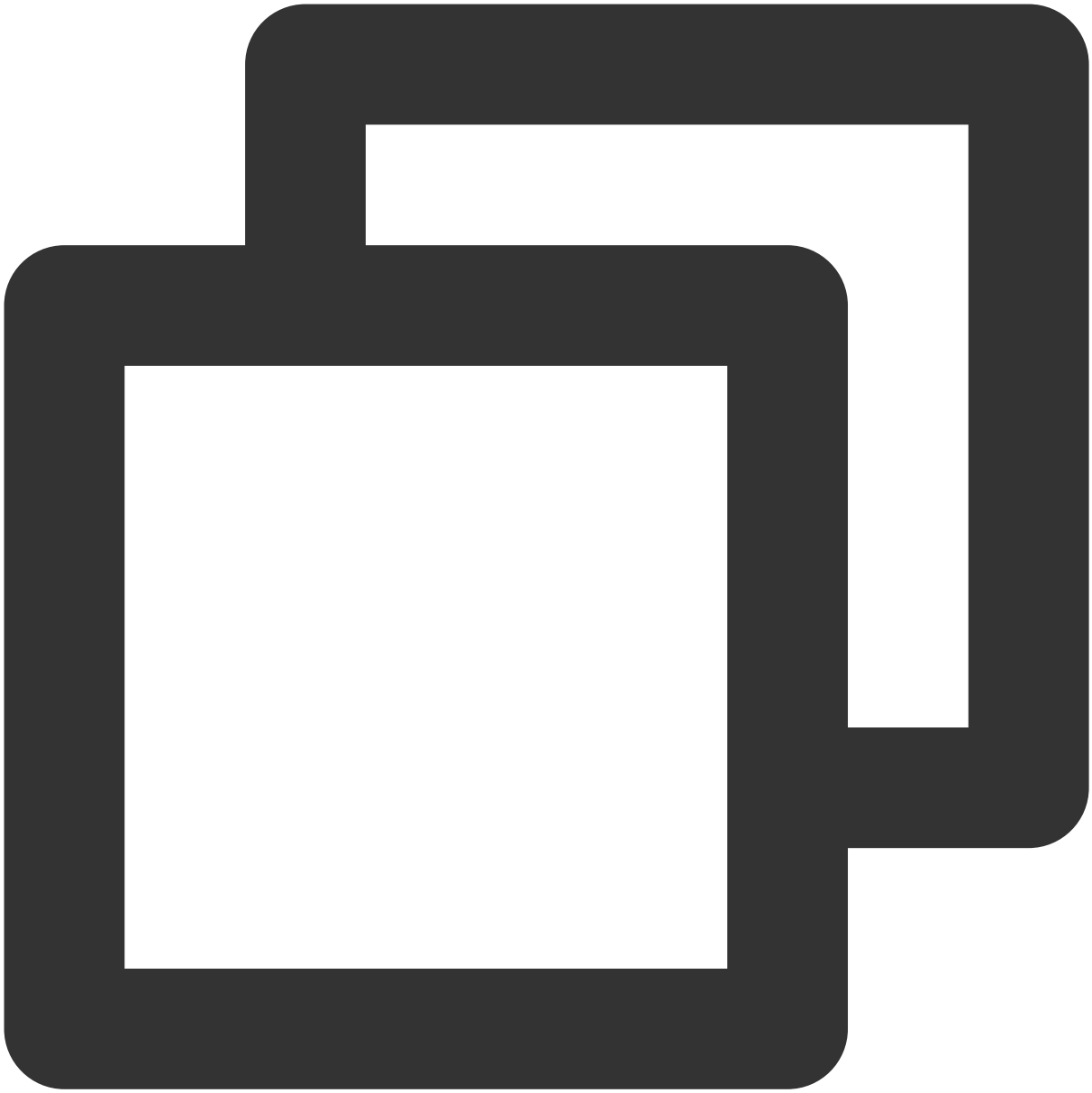

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

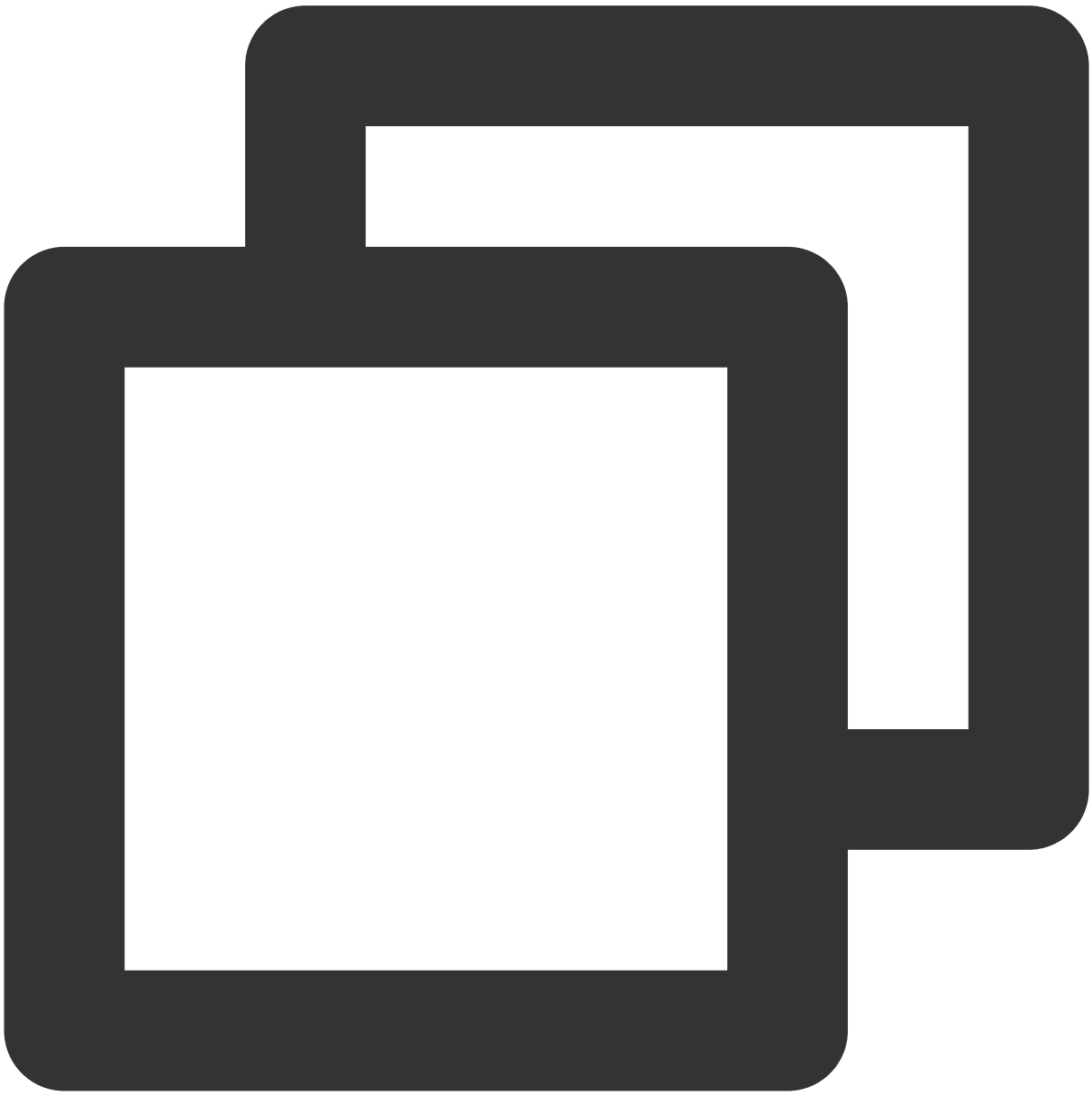
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Animation</Tag>
    <Name>TemplateName</Name>
    <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
    <Container>
        <Format>gif</Format>
    </Container>
    <Video>
        <Codec>gif</Codec>
        <Width>1280</Width>
        <Height></Height>
        <Fps>15</Fps>
        <AnimateOnlyKeepKeyFrame>false</AnimateOnlyKeepKeyFrame>
    </Video>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the animated image template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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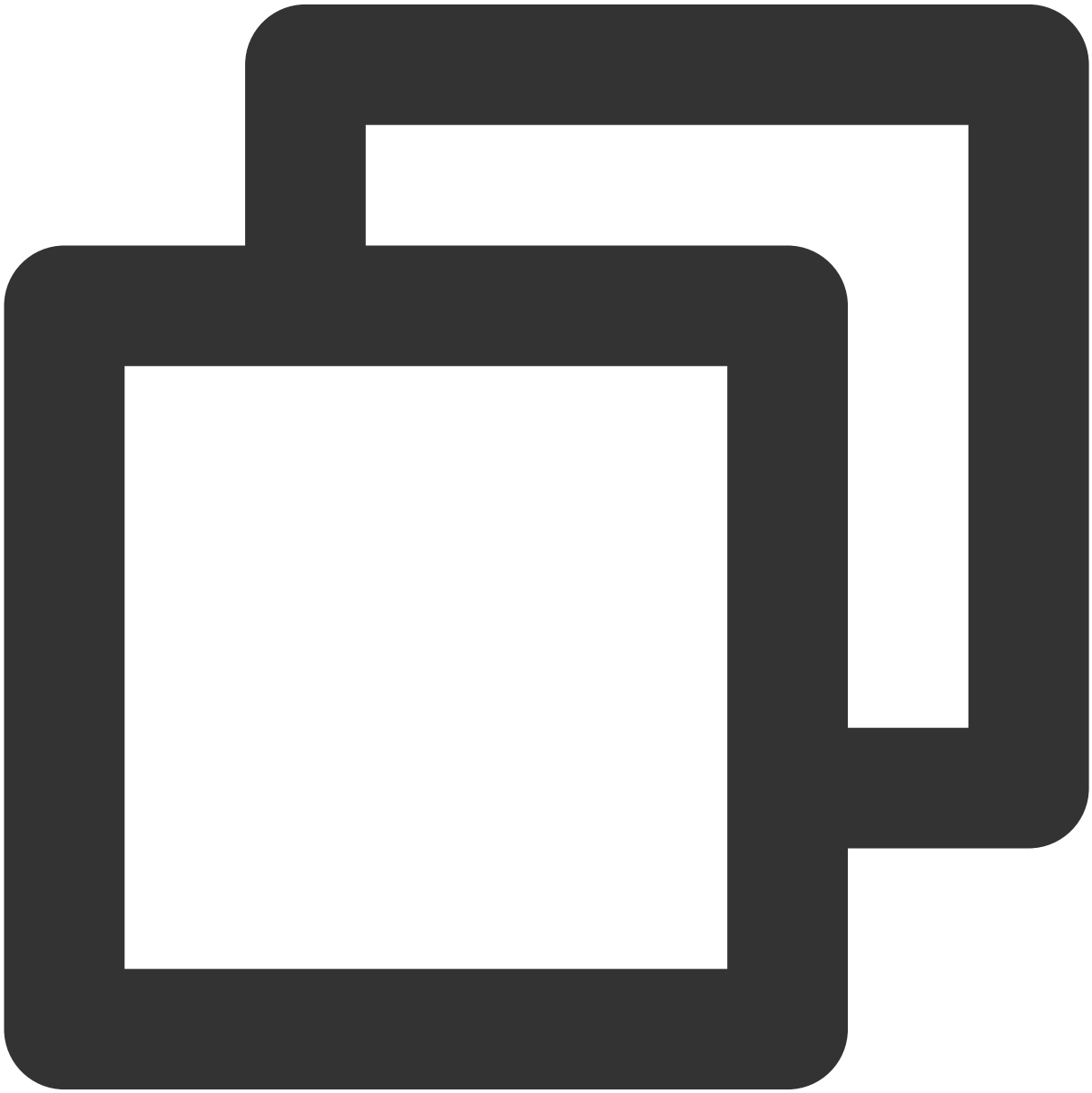

```
<Response>
    <Template>
        <Tag>Animation</Tag>
        <Name>TemplateName</Name>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <TransTpl>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>gif</Codec>
```

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```
                <Width>1280</Width>
                <Height></Height>
                <Fps>15</Fps>
                <AnimateOnlyKeepKeyFrame>false</AnimateOnlyKeepKeyFrame>
            </Video>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </TransTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the animated image template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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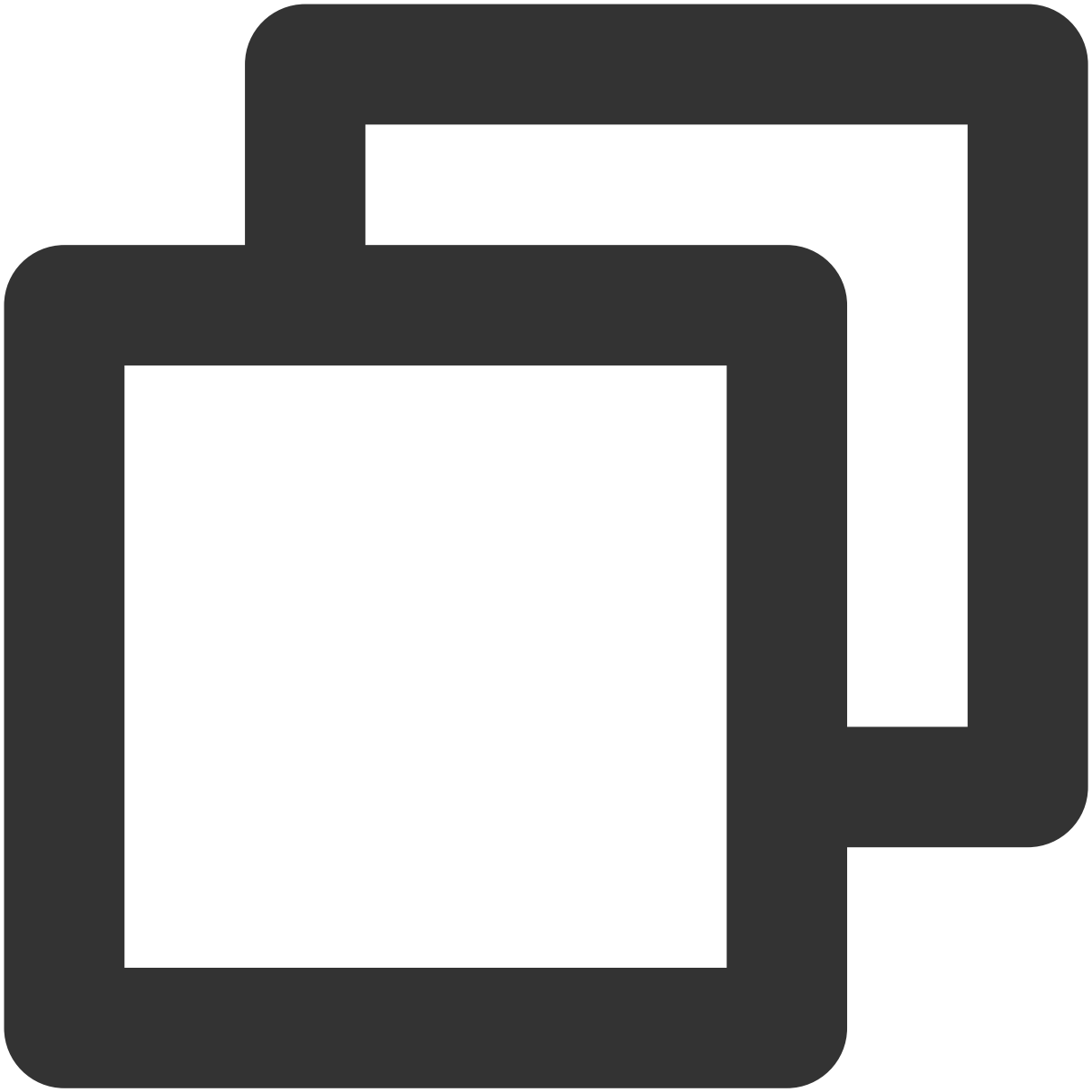

```
PUT /template/t1f16e1dfbdc994105b31292d45710642a HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>Animation</Tag>
    <Name>TemplateName</Name>
    <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
    <Container>
```

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```
        <Format>gif</Format>
    </Container>
    <Video>
        <Codec>gif</Codec>
        <Width>1280</Width>
        <Height></Height>
        <Fps>15</Fps>
        <AnimateOnlyKeepKeyFrame>false</AnimateOnlyKeepKeyFrame>
    </Video>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

Response

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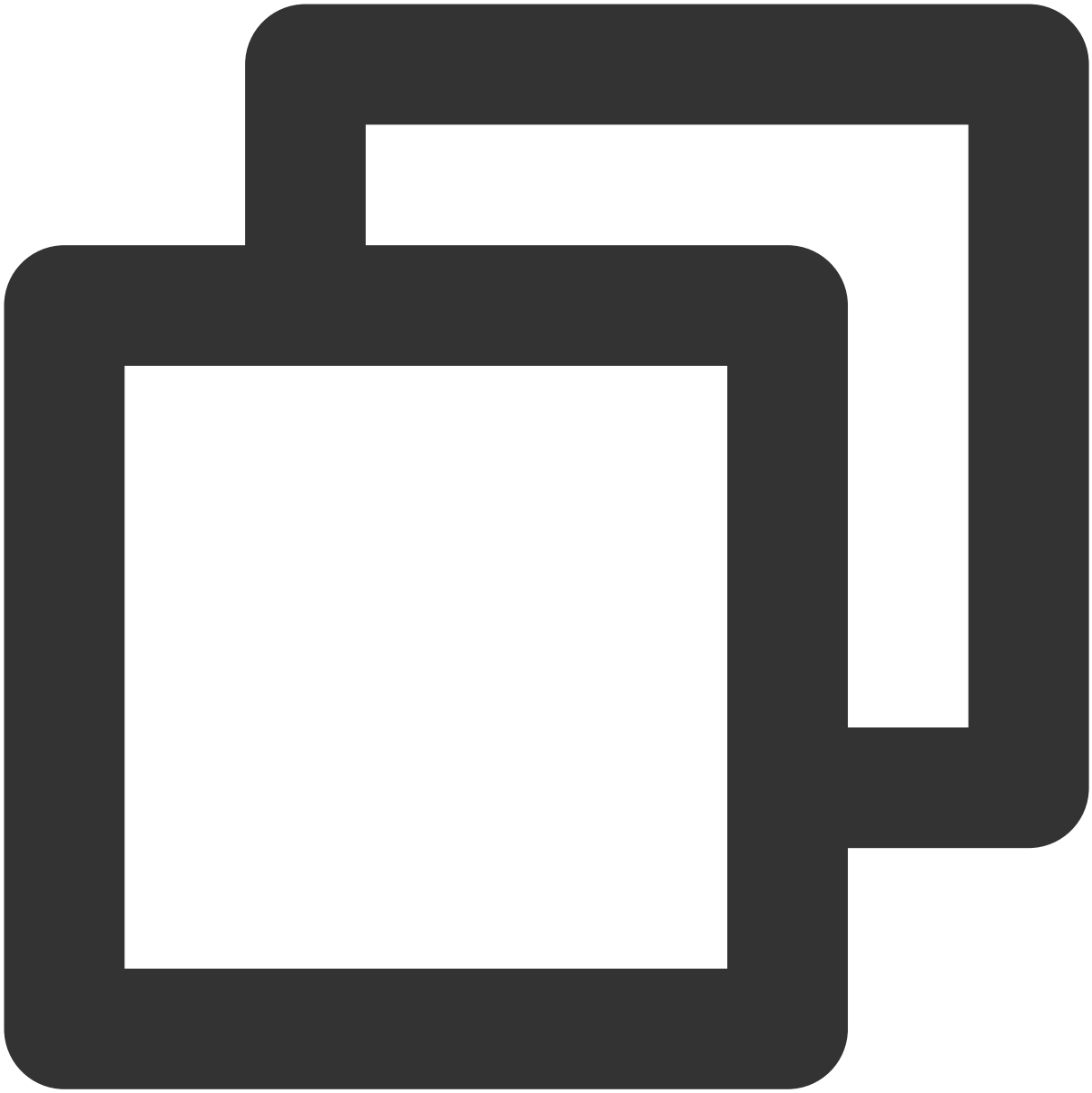

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <Tag>Animation</Tag>
    <Name>TemplateName</Name>
```

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```
    <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
    <TransTpl>
      <Container>
         <Format>mp4</Format>
      </Container>
      <Video>
        <Codec>gif</Codec>
        <Width>1280</Width>
        <Height></Height>
        <Fps>15</Fps>
        <AnimateOnlyKeepKeyFrame>false</AnimateOnlyKeepKeyFrame>
      </Video>
      <TimeInterval>
         <Start>0</Start>
         <Duration>60</Duration>
      </TimeInterval>
   </TransTpl>
   <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
   <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
</Response>
```

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Updating Splicing Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a splicing template.

Request

Sample request

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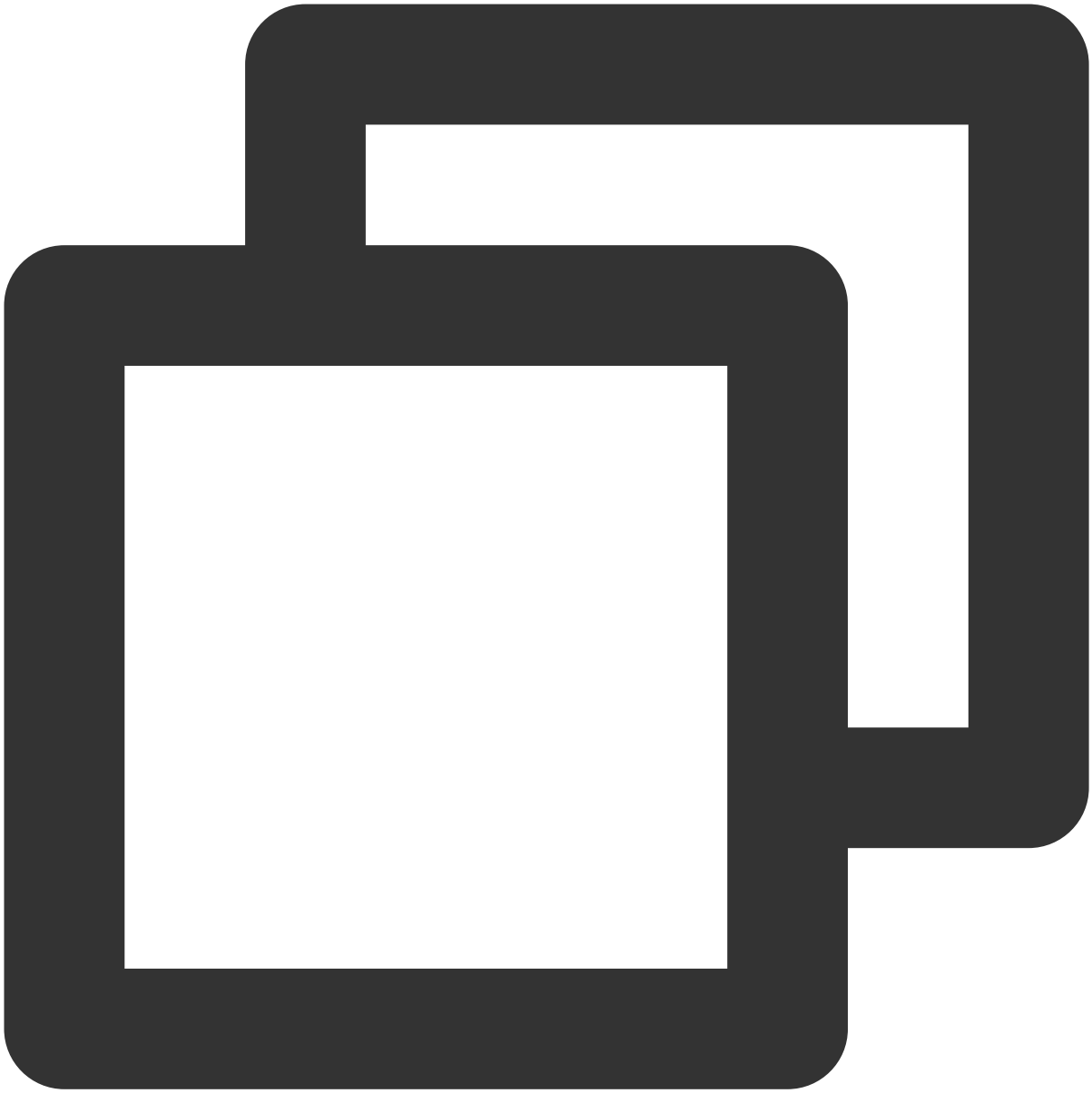

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

Common request headers

This API uses common request headers. For more information, see Common Request Headers.

Non-common request headers

This request operation does not use any non-common request headers.

Request body

This request requires the following request body:

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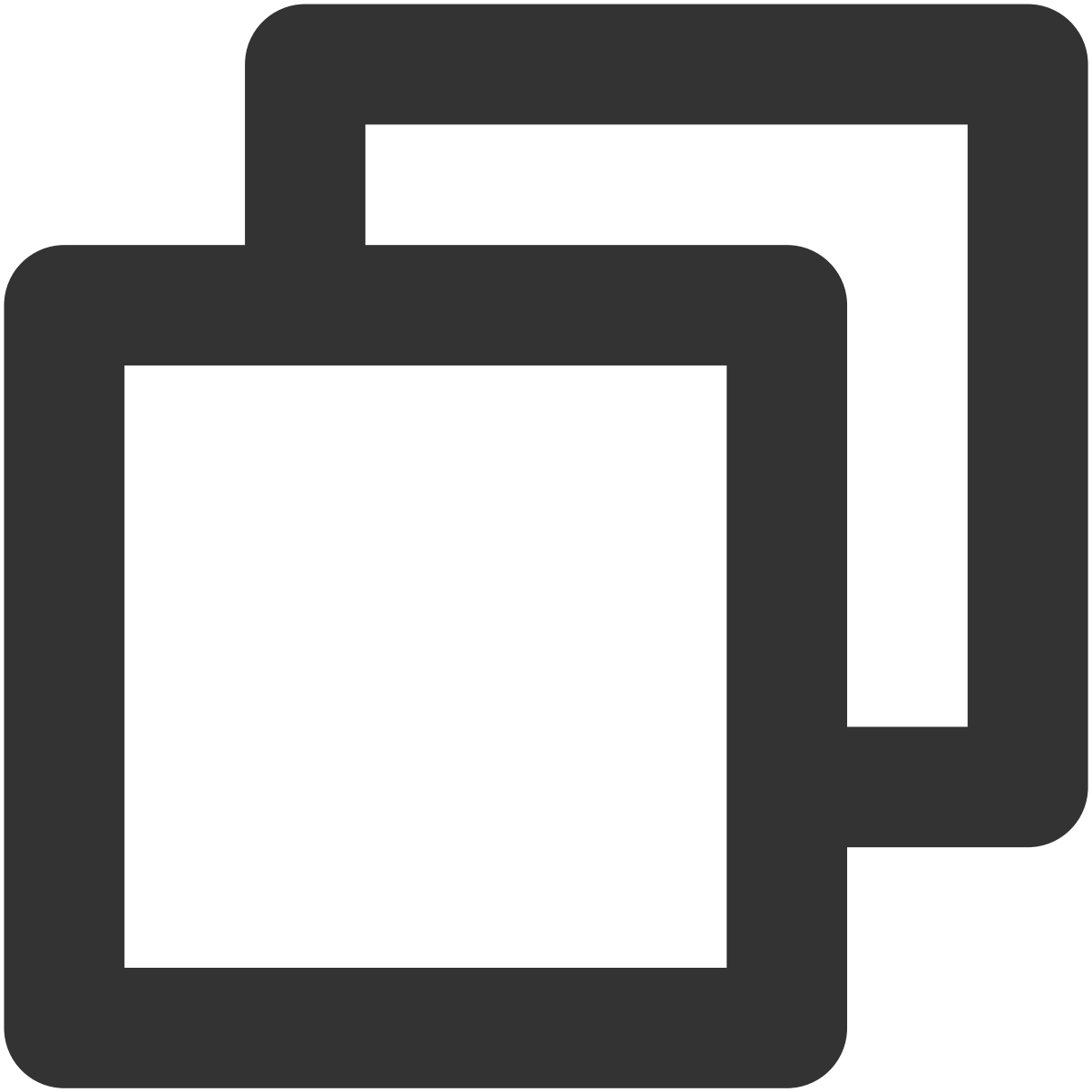

```
<Request>
    <Tag>Concat</Tag>
    <Name>TemplateName</Name>
    <ConcatTemplate>
        <ConcatFragment>
            <Mode>Start</Mode>
            <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/start.mp4</Ur
        </ConcatFragment>
        <ConcatFragment>
            <Mode>End</Mode>
            <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/end.mp4</Url>
```

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```
        </ConcatFragment>
        <Audio>
            <Codec>mp3</Codec>
            <Samplerate></Samplerate>
            <Bitrate></Bitrate>
            <Channels></Channels>
        </Audio>
        <Video>
            <Codec>H.264</Codec>
            <Bitrate>1000</Bitrate>
            <Width>1280</Width>
            <Height></Height>
            <Fps>30</Fps>
        </Video>
        <Container>
            <Format>mp4</Format>
        </Container>
        <AudioMix>
            <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3</Au
            <MixMode>Once</MixMode>
            <Replace>true</Replace>
            <EffectConfig>
                <EnableStartFadein>true</EnableStartFadein>
                <StartFadeinTime>3</StartFadeinTime>
                <EnableEndFadeout>false</EnableEndFadeout>
                <EndFadeoutTime>0</EndFadeoutTime>
                <EnableBgmFade>true</EnableBgmFade>
                <BgmFadeTime>1.7</BgmFadeTime>
            </EffectConfig>
        </AudioMix>
    </ConcatTemplate>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type
Request	None	Same as Request in the splicing template creation API.	Container

Response

Response headers

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Common response headers

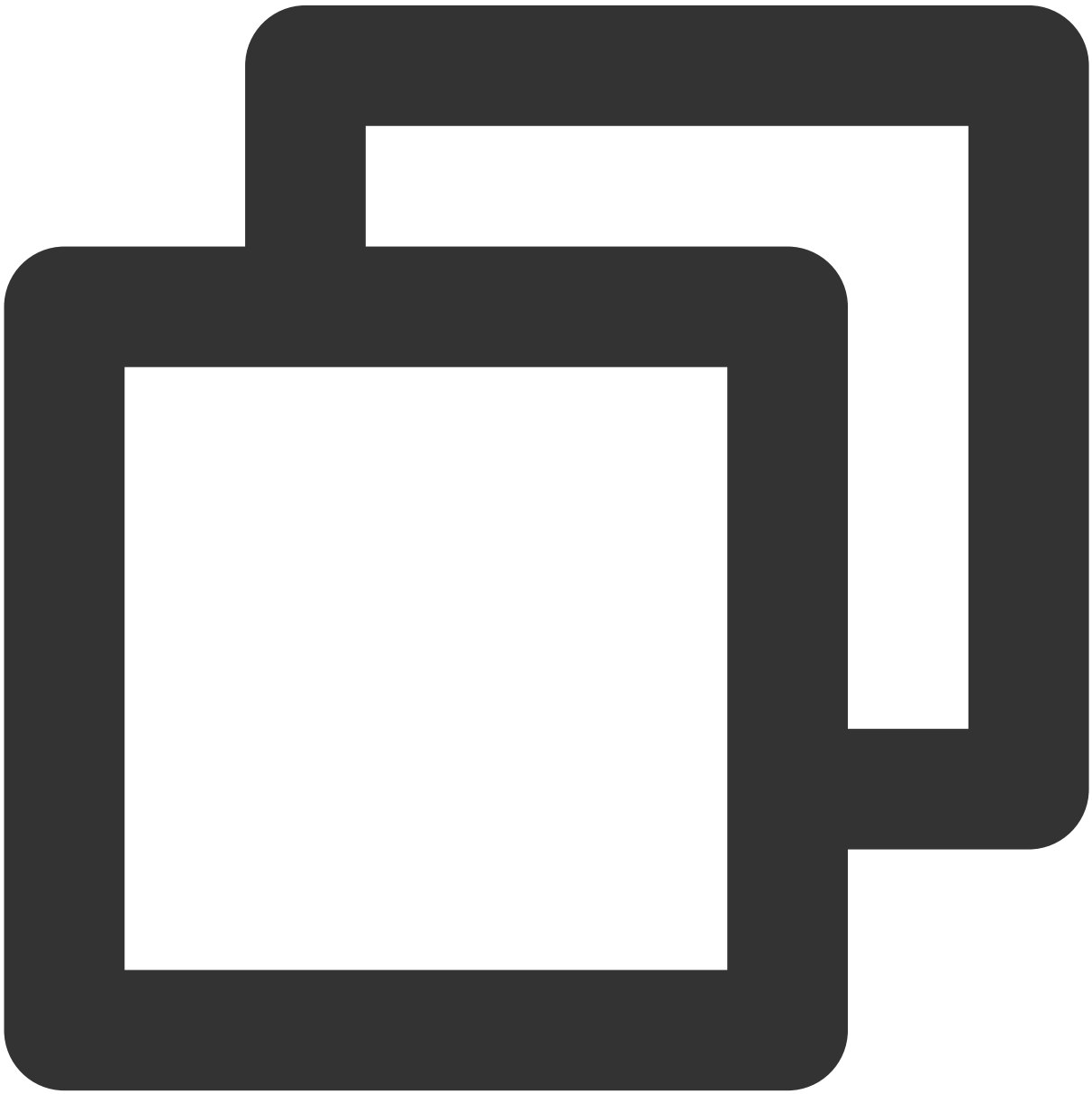
This response contains common response headers. For more information, see Common Response Headers.

Non-common response headers

This response does not use any non-common response header.

Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
```

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```
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Tag>Concat</Tag>
        <Name>TemplateName</Name>
        <ConcatTemplate>
            <ConcatFragment>
                <Mode>Start</Mode>
                <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/start.mp4
            </ConcatFragment>
            <ConcatFragment>
                <Mode>End</Mode>
                <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/end.mp4</
            </ConcatFragment>
            <Audio>
                <Codec>mp3</Codec>
                <Samplerate></Samplerate>
                <Bitrate></Bitrate>
                <Channels></Channels>
            </Audio>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Height></Height>
                <Fps>30</Fps>
            </Video>
            <Container>
                <Format>mp4</Format>
            </Container>
            <AudioMix>
                <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3
                <MixMode>Once</MixMode>
                <Replace>true</Replace>
                <EffectConfig>
                    <EnableStartFadein>true</EnableStartFadein>
                    <StartFadeinTime>3</StartFadeinTime>
                    <EnableEndFadeout>false</EnableEndFadeout>
                    <EndFadeoutTime>0</EndFadeoutTime>
                    <EnableBgmFade>true</EnableBgmFade>
                    <BgmFadeTime>1.7</BgmFadeTime>
                </EffectConfig>
            </AudioMix>
        </ConcatTemplate>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the splicing template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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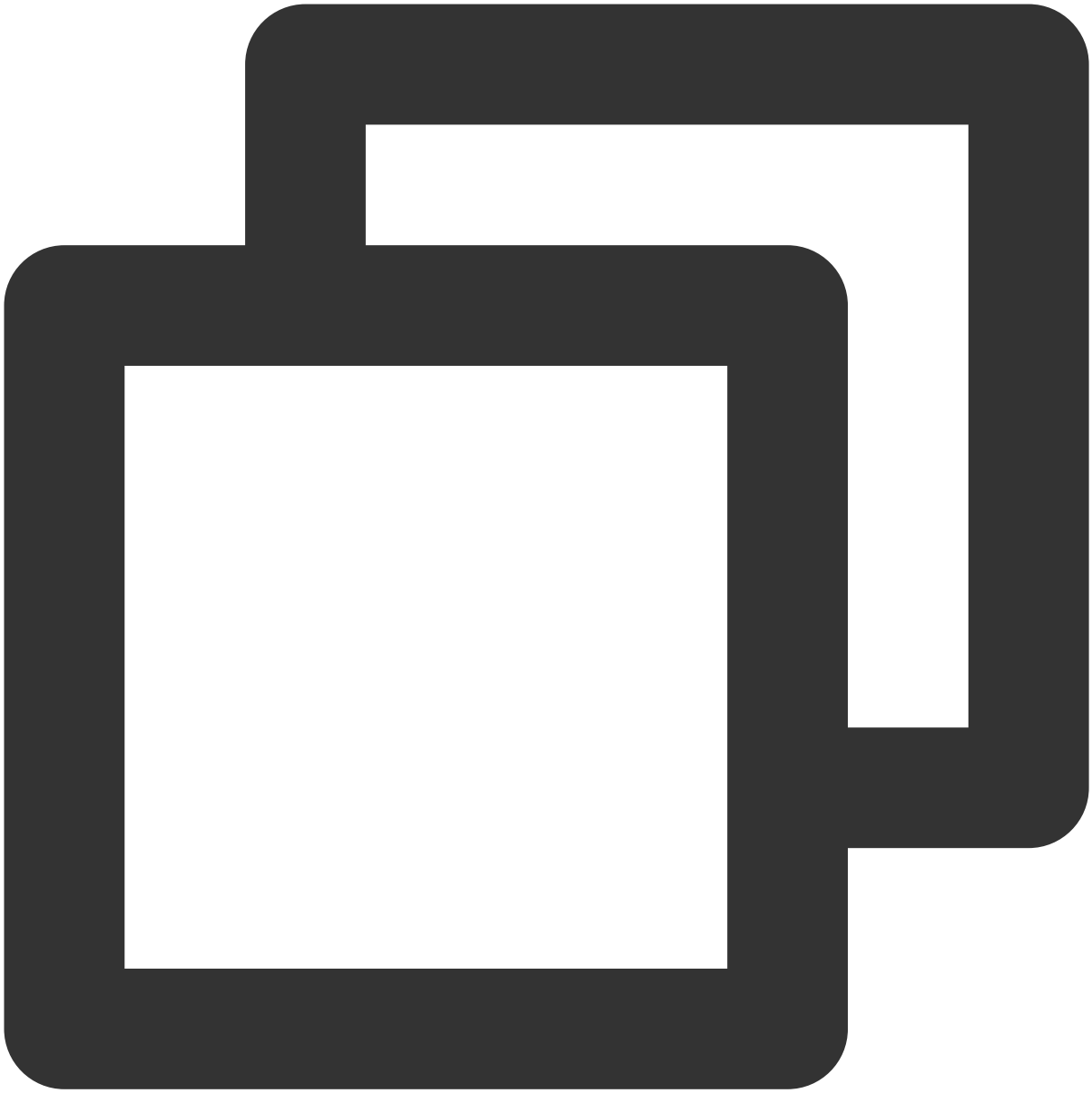

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR98****-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>Concat</Tag>
    <Name>TemplateName</Name>
    <ConcatTemplate>
        <ConcatFragment>
```

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```
            <Mode>Start</Mode>
            <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/start.mp4</Ur
        </ConcatFragment>
        <ConcatFragment>
            <Mode>End</Mode>
            <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/end.mp4</Url>
        </ConcatFragment>
        <Audio>
            <Codec>mp3</Codec>
            <Samplerate></Samplerate>
            <Bitrate></Bitrate>
            <Channels></Channels>
        </Audio>
        <Video>
            <Codec>H.264</Codec>
            <Bitrate>1000</Bitrate>
            <Width>1280</Width>
            <Height></Height>
            <Fps>30</Fps>
        </Video>
        <Container>
            <Format>mp4</Format>
        </Container>
        <AudioMix>
            <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3</Au
            <MixMode>Once</MixMode>
            <Replace>true</Replace>
            <EffectConfig>
                <EnableStartFadein>true</EnableStartFadein>
                <StartFadeinTime>3</StartFadeinTime>
                <EnableEndFadeout>false</EnableEndFadeout>
                <EndFadeoutTime>0</EndFadeoutTime>
                <EnableBgmFade>true</EnableBgmFade>
                <BgmFadeTime>1.7</BgmFadeTime>
            </EffectConfig>
        </AudioMix>
    </ConcatTemplate>
</Request>
```

Response

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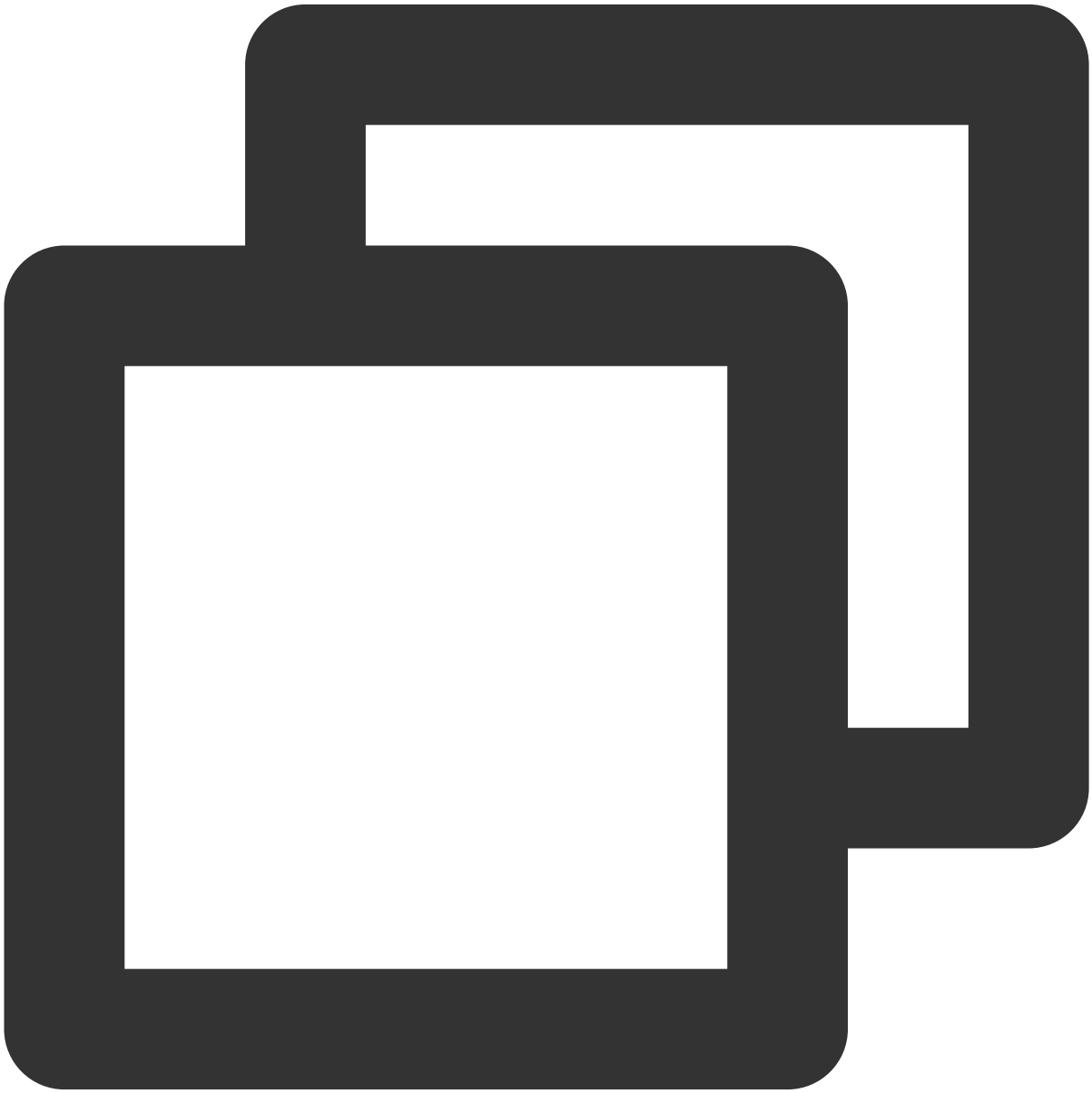

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
        <Tag>Concat</Tag>
        <Name>TemplateName</Name>
        <ConcatTemplate>
            <ConcatFragment>
                <Mode>Start</Mode>
                <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/start.mp4
            </ConcatFragment>
            <ConcatFragment>
                <Mode>End</Mode>
                <Url>http://bucket-1250000000.cos.ap-beijing.myqcloud.com/end.mp4</
            </ConcatFragment>
            <Audio>
                <Codec>mp3</Codec>
                <Samplerate></Samplerate>
                <Bitrate></Bitrate>
                <Channels></Channels>
            </Audio>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Height></Height>
                <Fps>30</Fps>
            </Video>
            <Container>
                <Format>mp4</Format>
            </Container>
            <AudioMix>
                <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3
                <MixMode>Once</MixMode>
                <Replace>true</Replace>
                <EffectConfig>
                    <EnableStartFadein>true</EnableStartFadein>
                    <StartFadeinTime>3</StartFadeinTime>
                    <EnableEndFadeout>false</EnableEndFadeout>
                    <EndFadeoutTime>0</EndFadeoutTime>
                    <EnableBgmFade>true</EnableBgmFade>
                    <BgmFadeTime>1.7</BgmFadeTime>
                </EffectConfig>
            </AudioMix>
        </ConcatTemplate>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Top Speed Codec Transcoding Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a top speed codec transcoding template.

Request

Sample request

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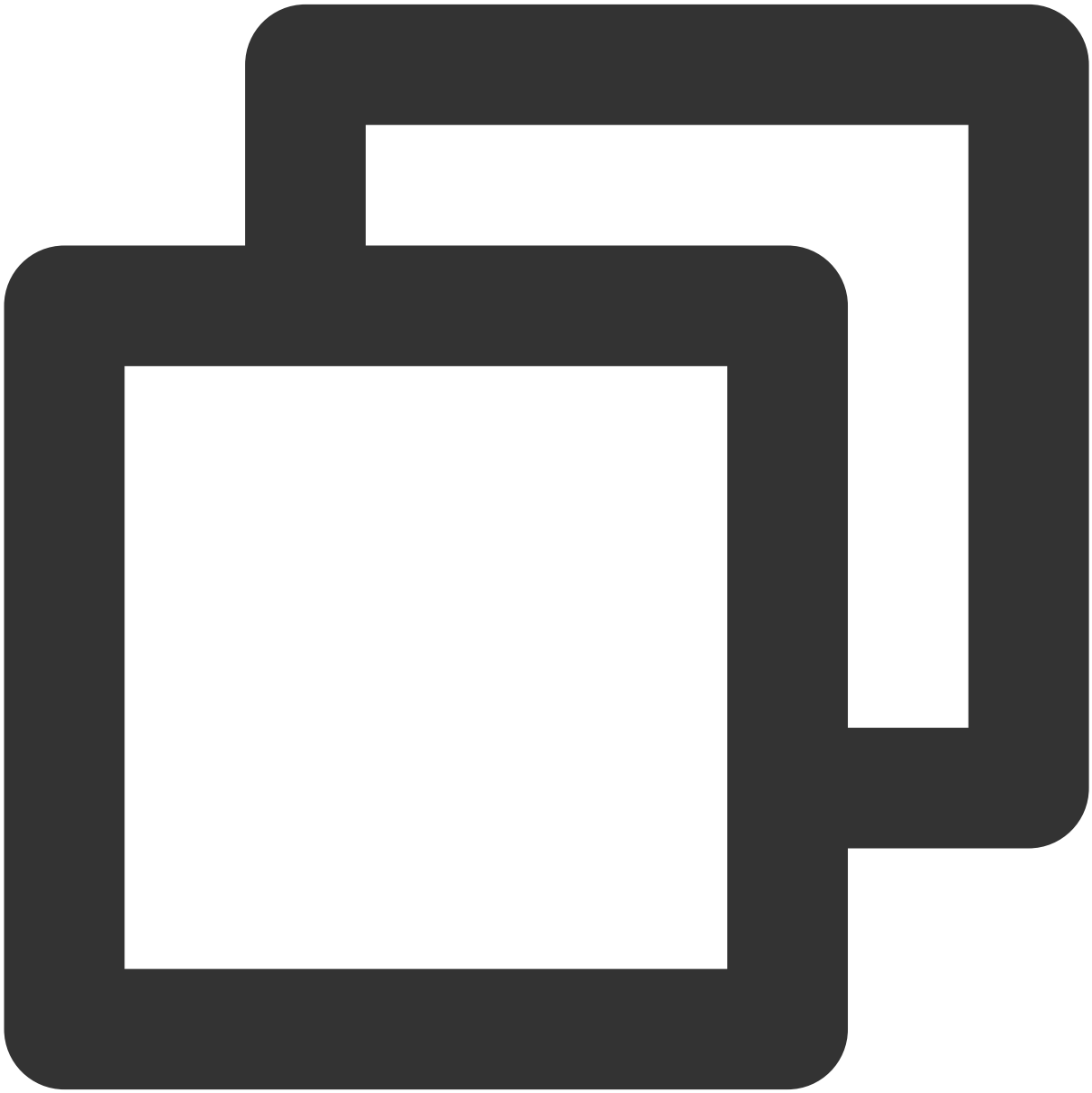

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

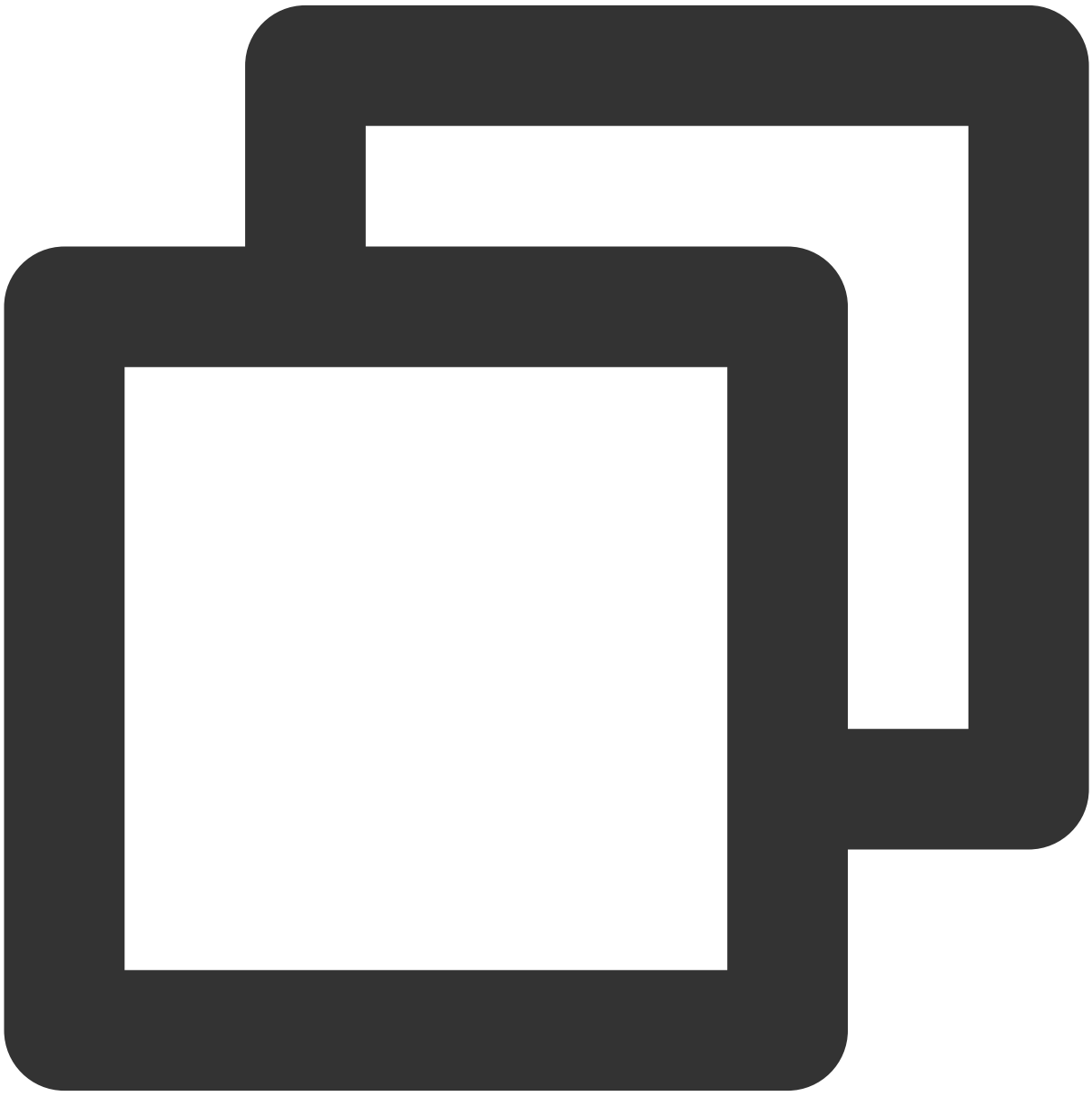
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>HighSpeedHd</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Profile>high</Profile>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
        <Bufsize>0</Bufsize>
        <Maxrate>0</Maxrate>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </Audio>
    <TransConfig>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the top speed codec transcoding template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

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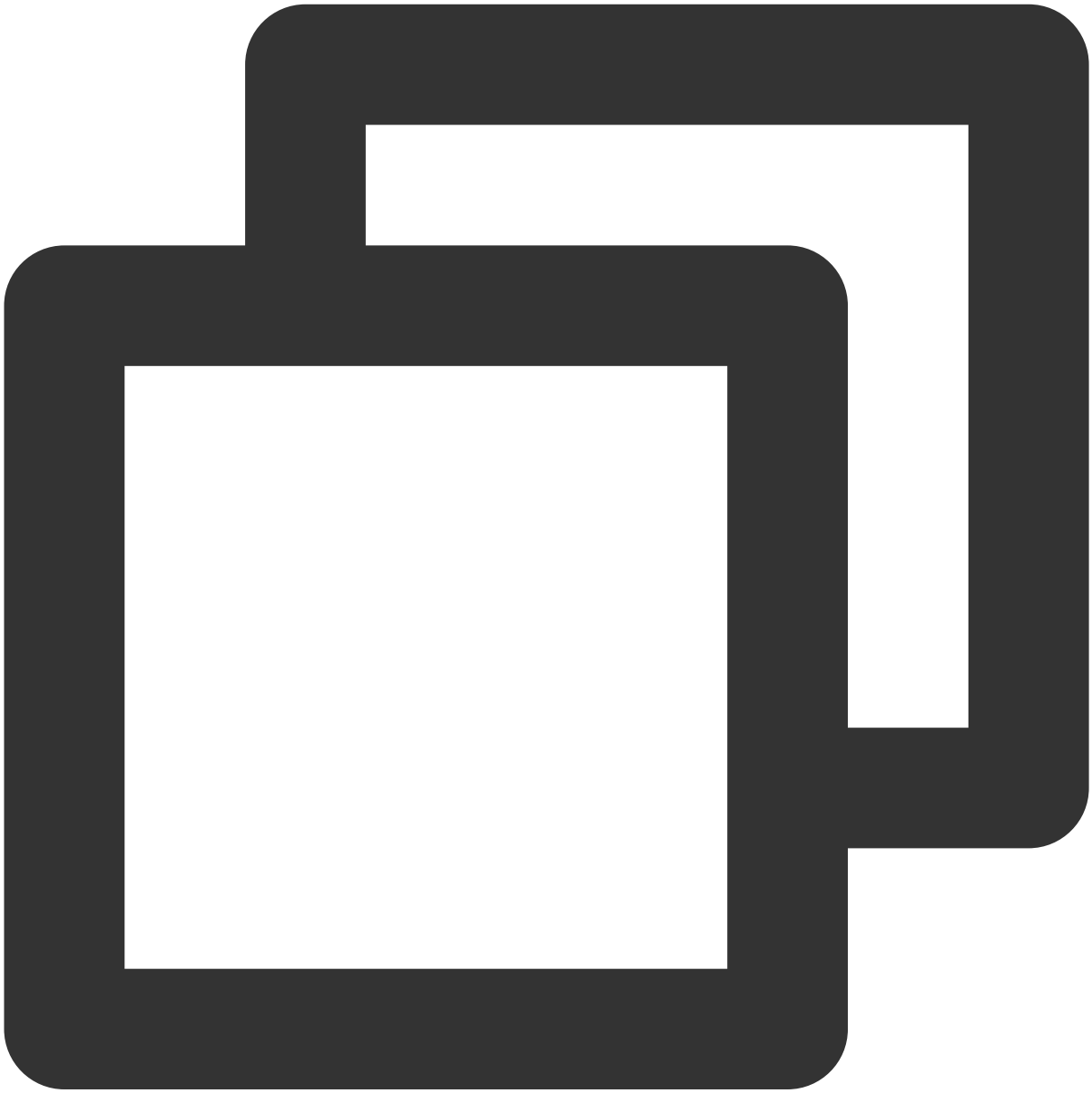
Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <Template>
        <Tag>HighSpeedHd</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <HighSpeedHd>
            <Container>
                <Format>mp4</Format>
```

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```
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Profile>high</Profile>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
                <Bufsize>0</Bufsize>
                <Maxrate>0</Maxrate>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
            </Audio>
            <TransConfig>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </HighSpeedHd>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the top speed codec transcoding template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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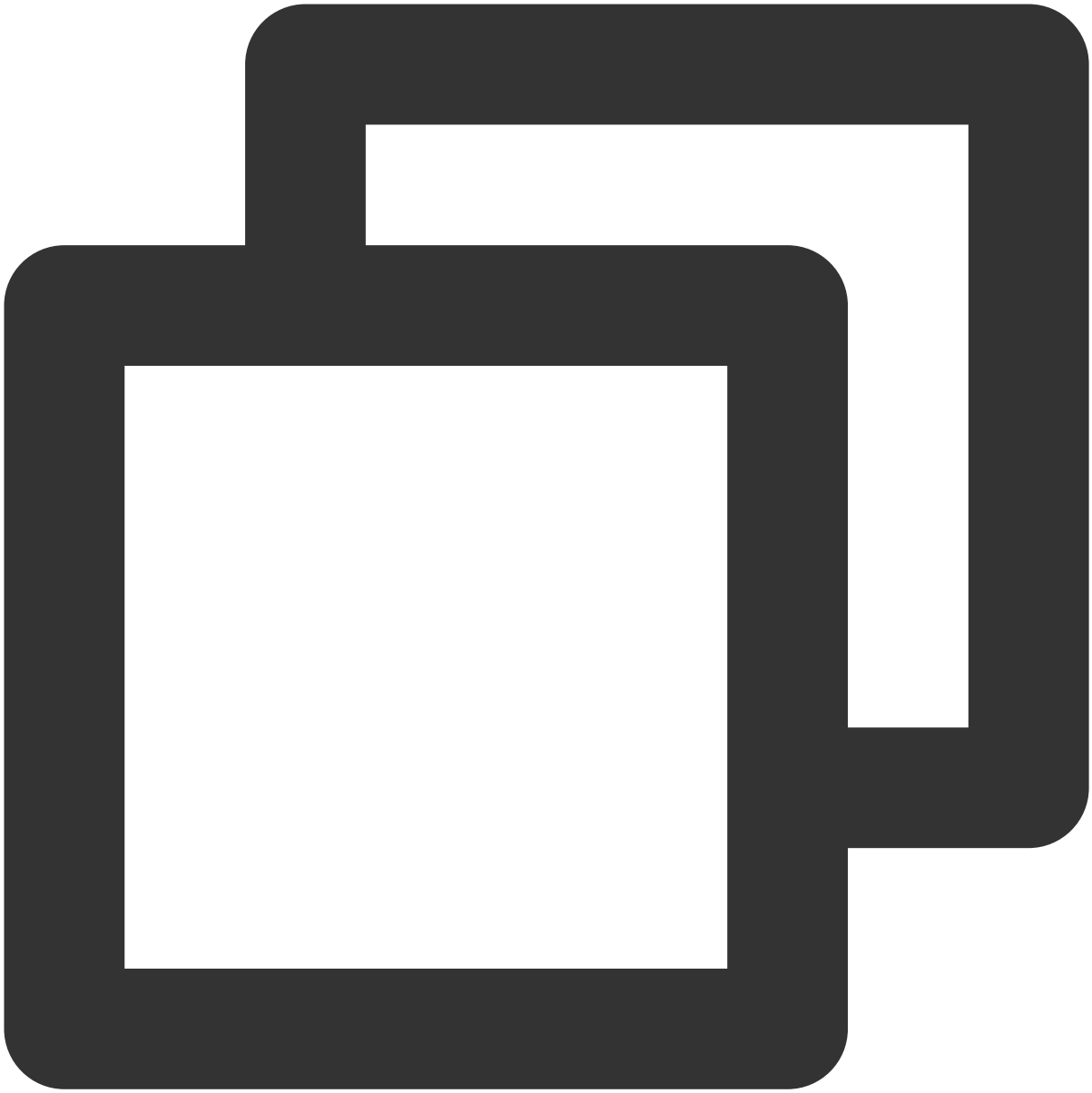

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0**********&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>HighSpeedHd</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mp4</Format>
```

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```
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Profile>high</Profile>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
        <Bufsize>0</Bufsize>
        <Maxrate>0</Maxrate>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </Audio>
    <TransConfig>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

Response

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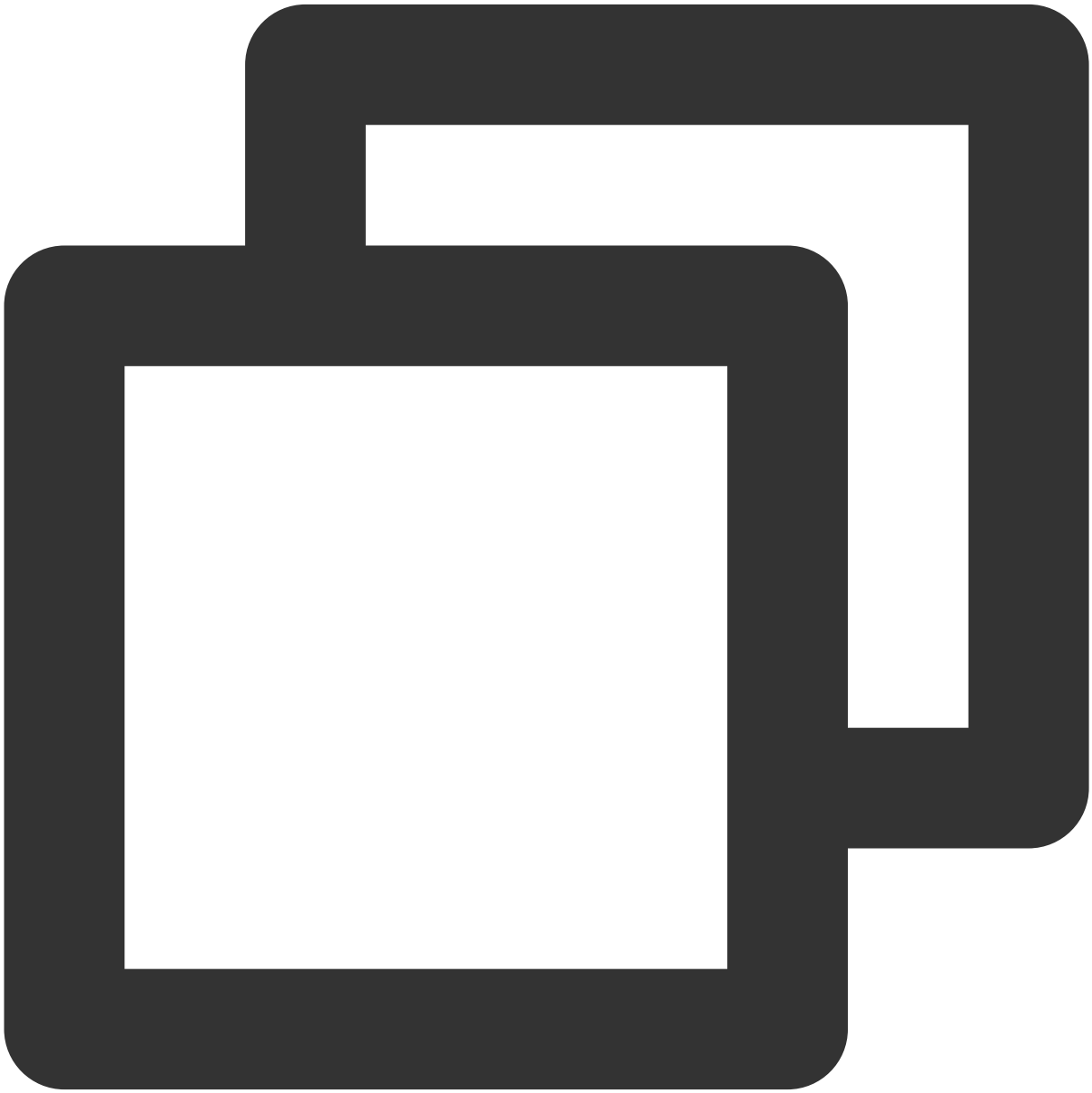

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>HighSpeedHd</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <HighSpeedHd>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Profile>high</Profile>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
                <Bufsize>0</Bufsize>
                <Maxrate>0</Maxrate>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
            </Audio>
            <TransConfig>
                <IsCheckReso>false</IsCheckReso>
                <ResoAdjMethod>1</ResoAdjMethod>
            </TransConfig>
            <TimeInterval>
                <Start>0</Start>
                <Duration>60</Duration>
            </TimeInterval>
        </HighSpeedHd>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Screenshot Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a screenshot template.

Request

Sample request

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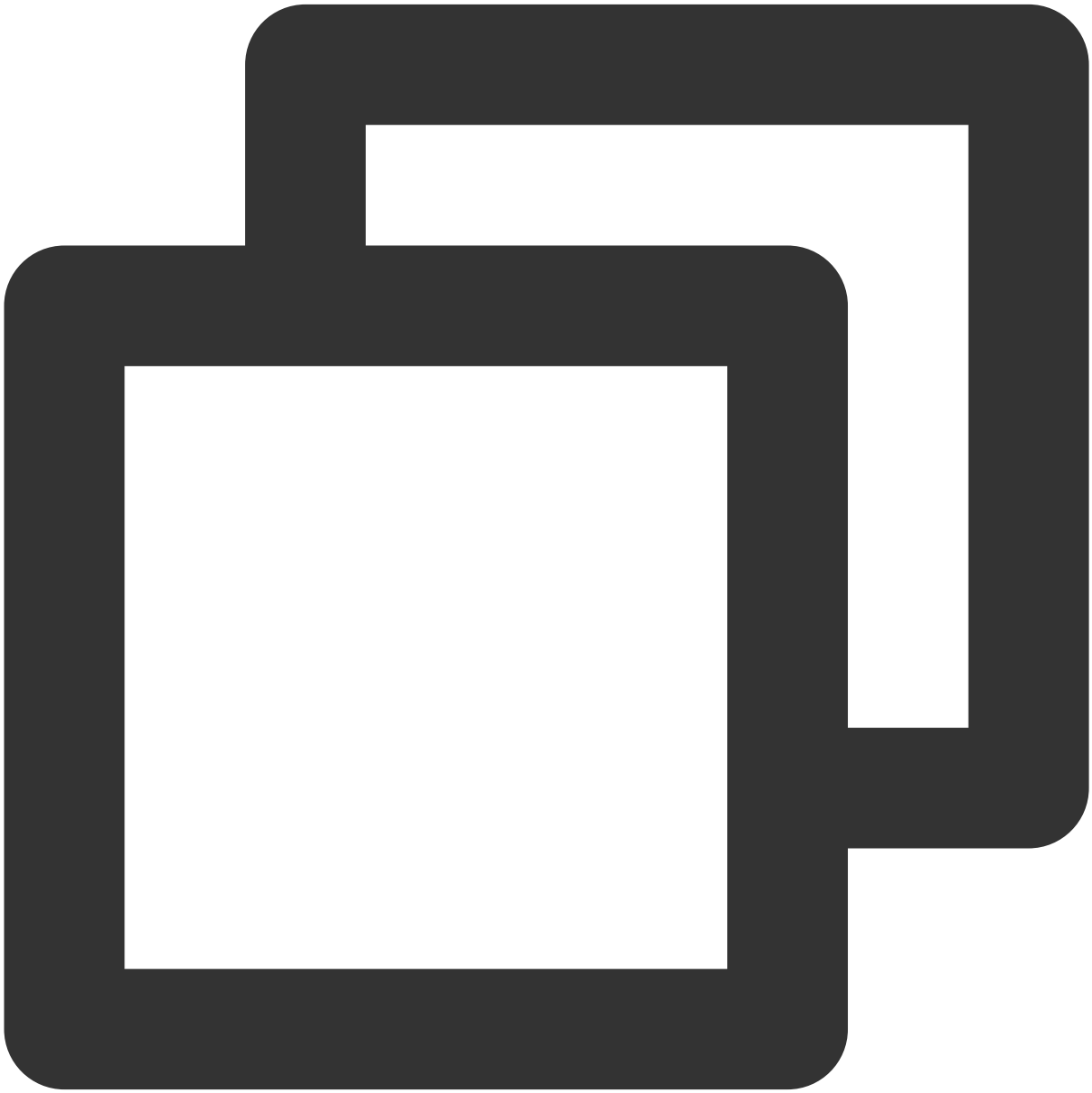

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

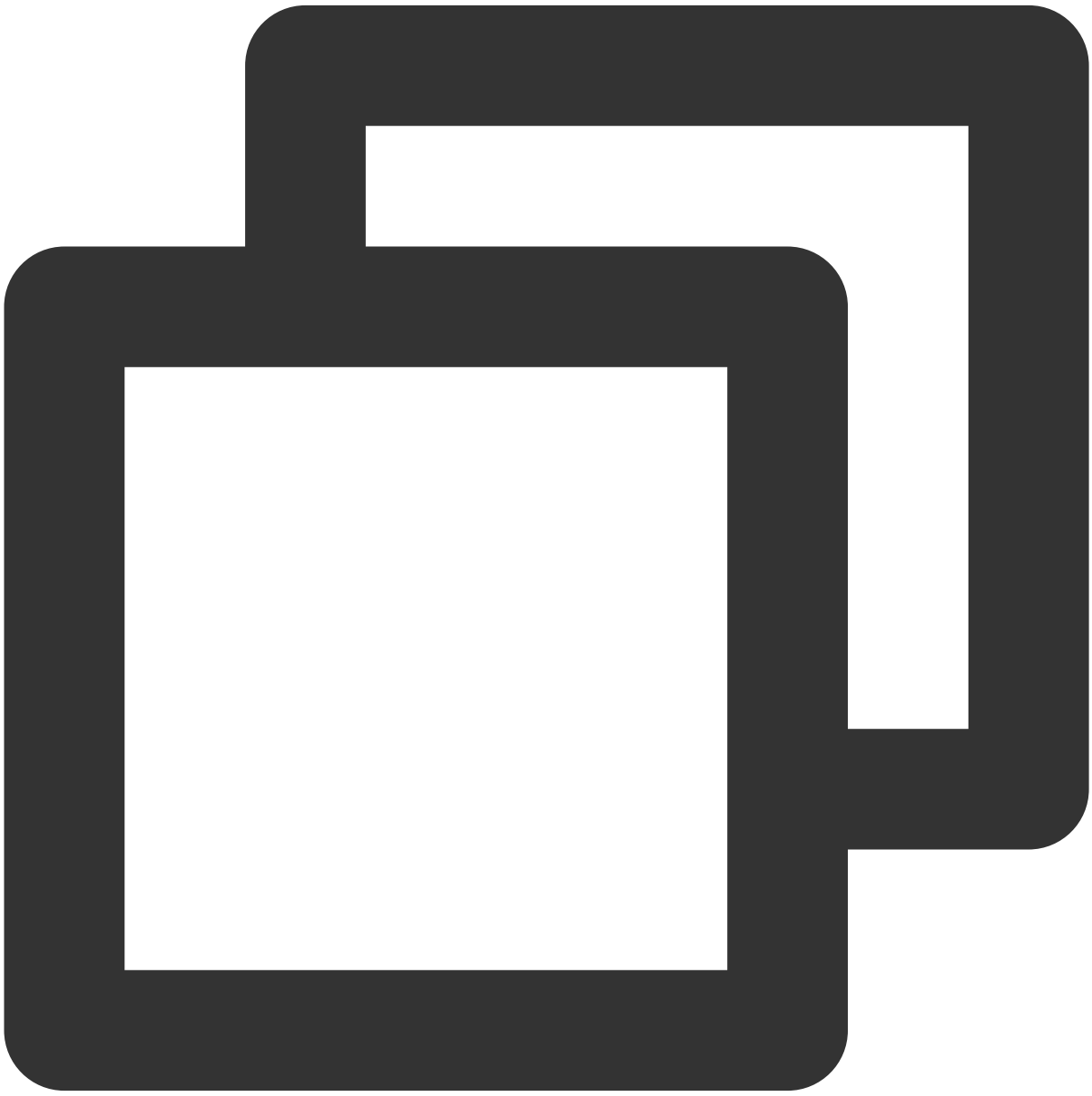
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Snapshot</Tag>
    <Name>TemplateName</Name>
    <Snapshot>
        <Mode>Interval</Mode>
        <Width>1280</Width>
        <Height>960</Height>
        <Start>0</Start>
        <TimeInterval>0.5</TimeInterval>
        <Count>10</Count>
        <SnapshotOutMode>OnlySprite</SnapshotOutMode>
        <SpriteSnapshotConfig>
            <Color>Aquamarine</Color>
            <Columns>3</Columns>
            <Lines>3</Lines>
        </SpriteSnapshotConfig>
    </Snapshot>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the screenshot template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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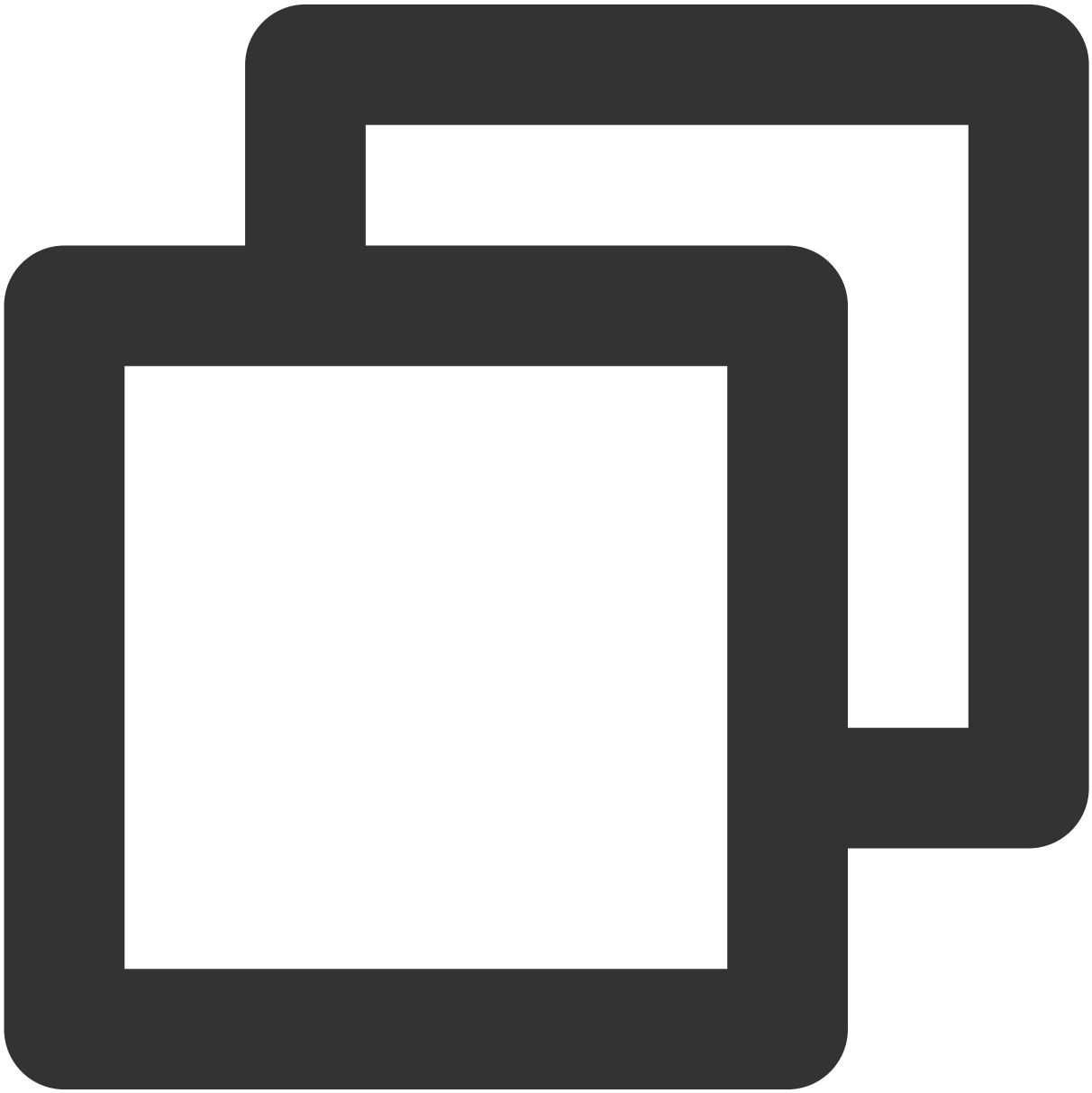

```
<Response>
    <Template>
        <Tag>Snapshot</Tag>
        <Name>TemplateName</Name>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <Snapshot>
            <Mode>Interval</Mode>
            <Width>1280</Width>
            <Height>960</Height>
            <Start>0</Start>
            <TimeInterval>0.5</TimeInterval>
```

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```
            <Count>10</Count>
            <SnapshotOutMode>OnlySprite</SnapshotOutMode>
            <SpriteSnapshotConfig>
                <Color>Aquamarine</Color>
                <Columns>3</Columns>
                <Lines>3</Lines>
            </SpriteSnapshotConfig>
        </Snapshot>>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the screenshot template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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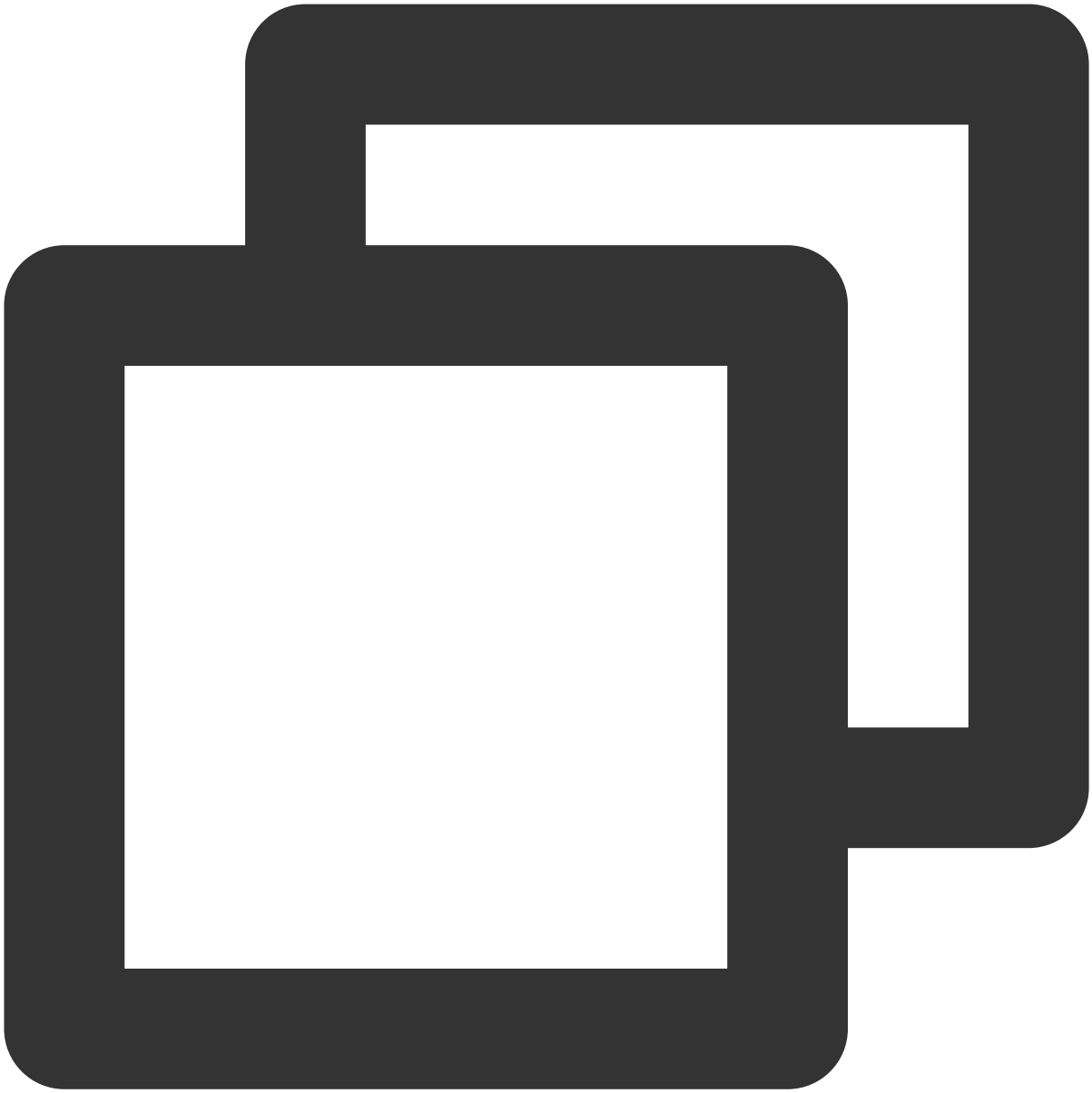

```
PUT /template/t1f16e1dfbdc994105b31292d45710642a HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>Snapshot</Tag>
    <Name>TemplateName</Name>
    <Snapshot>
        <Mode>Interval</Mode>
```

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```
        <Width>1280</Width>
        <Height>960</Height>
        <Start>0</Start>
        <TimeInterval>0.5</TimeInterval>
        <Count>10</Count>
        <SnapshotOutMode>OnlySprite</SnapshotOutMode>
        <SpriteSnapshotConfig>
            <Color>Aquamarine</Color>
            <Columns>3</Columns>
            <Lines>3</Lines>
        </SpriteSnapshotConfig>
    </Snapshot>
</Request>
```

Response

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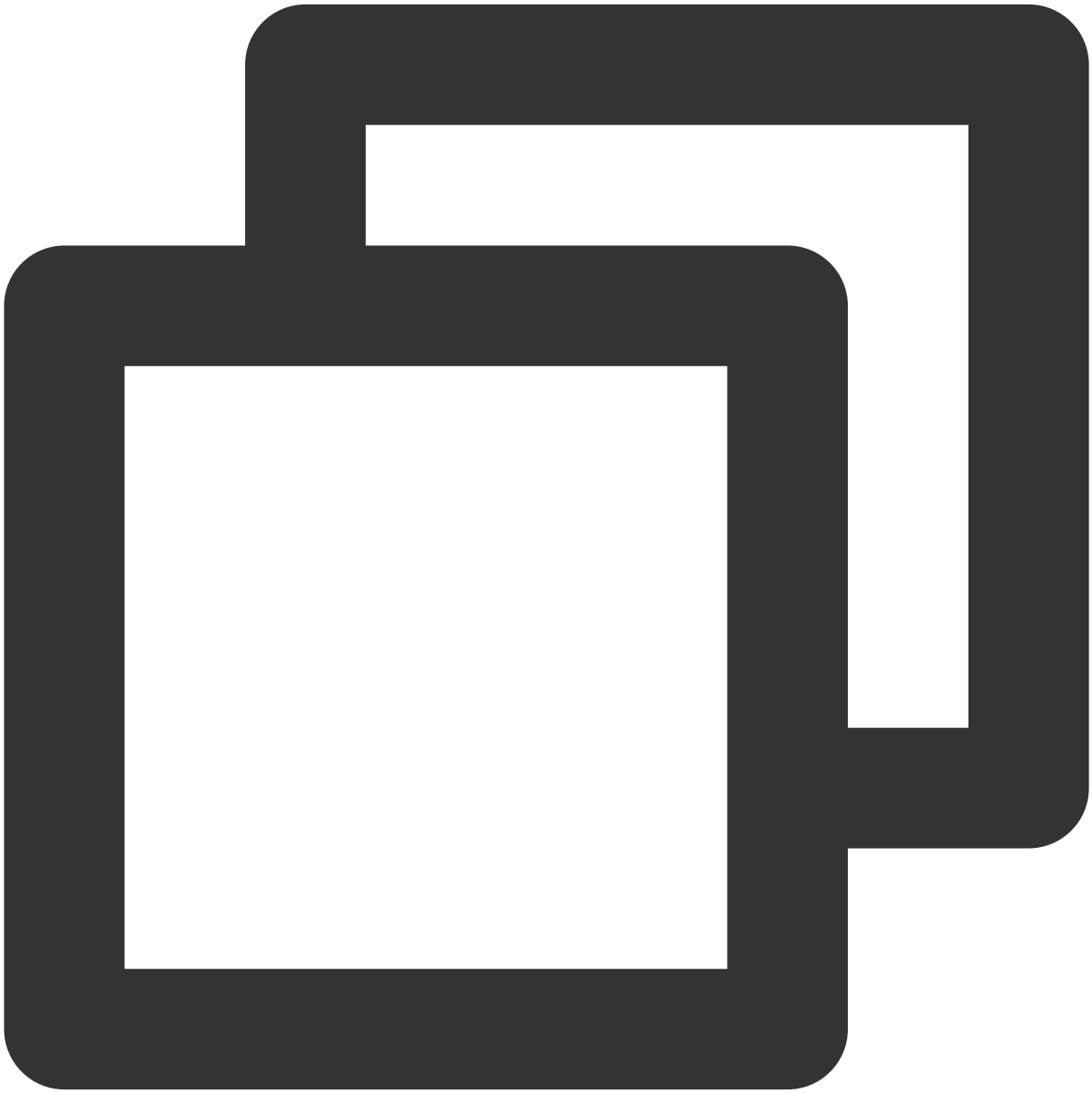

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <Template>
        <Tag>Snapshot</Tag>
```

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```
        <Name>TemplateName</Name>
        <TemplateId>t1f16e1dfbdc994105b31292d45710642a</TemplateId>
        <Snapshot>
            <Mode>Interval</Mode>
            <Width>1280</Width>
            <Height>960</Height>
            <Start>0</Start>
            <TimeInterval>0.5</TimeInterval>
            <Count>10</Count>
            <SnapshotOutMode>OnlySprite</SnapshotOutMode>
            <SpriteSnapshotConfig>
                <Color>Aquamarine</Color>
                <Columns>3</Columns>
                <Lines>3</Lines>
            </SpriteSnapshotConfig>
        </Snapshot>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Super Resolution Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a super resolution template.

Request

Sample request

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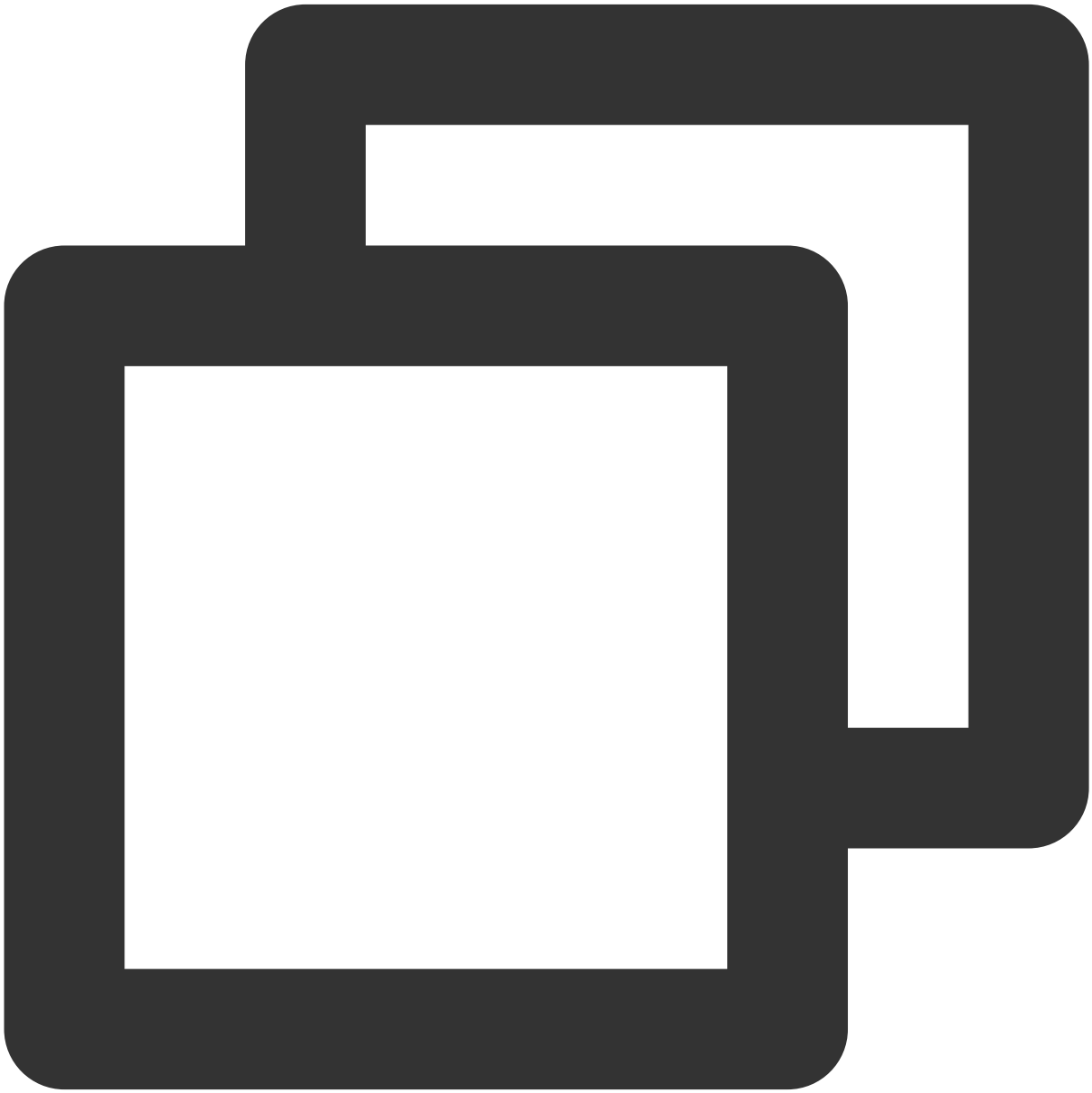

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

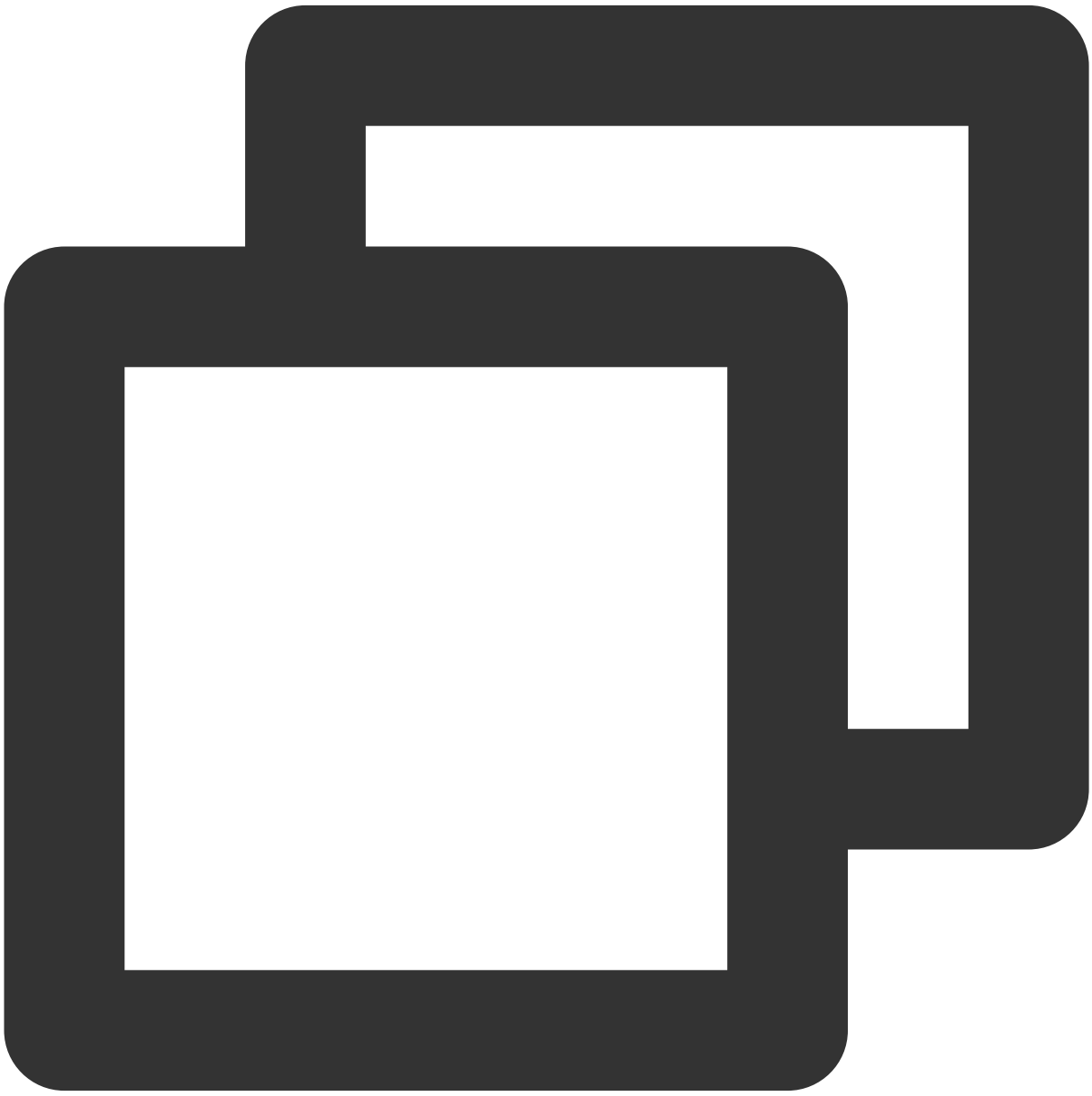
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>SuperResolution</Tag>
    <Name>TemplateName</Name>
    <Resolution>sdtohd</Resolution>
    <EnableScaleUp>true</EnableScaleUp>
    <Version>Enhance</Version>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the super resolution template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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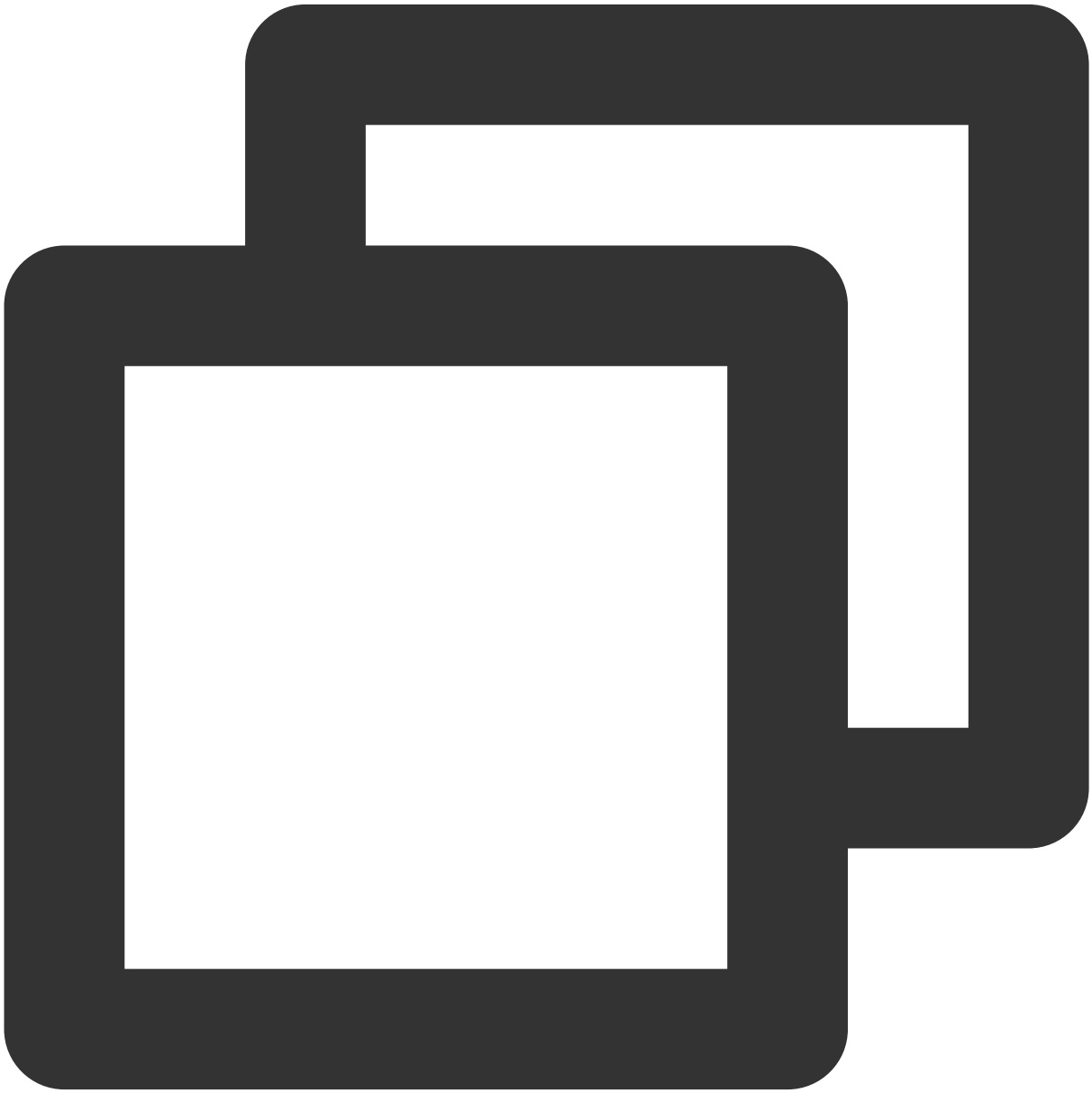

```
<Response>
    <Template>
        <Tag>SuperResolution</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <SuperResolution>
            <Resolution>sdtohd</Resolution>
            <EnableScaleUp>true</EnableScaleUp>
            <Version>Enhance</Version>
        </SuperResolution>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
```

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```
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the super resolution template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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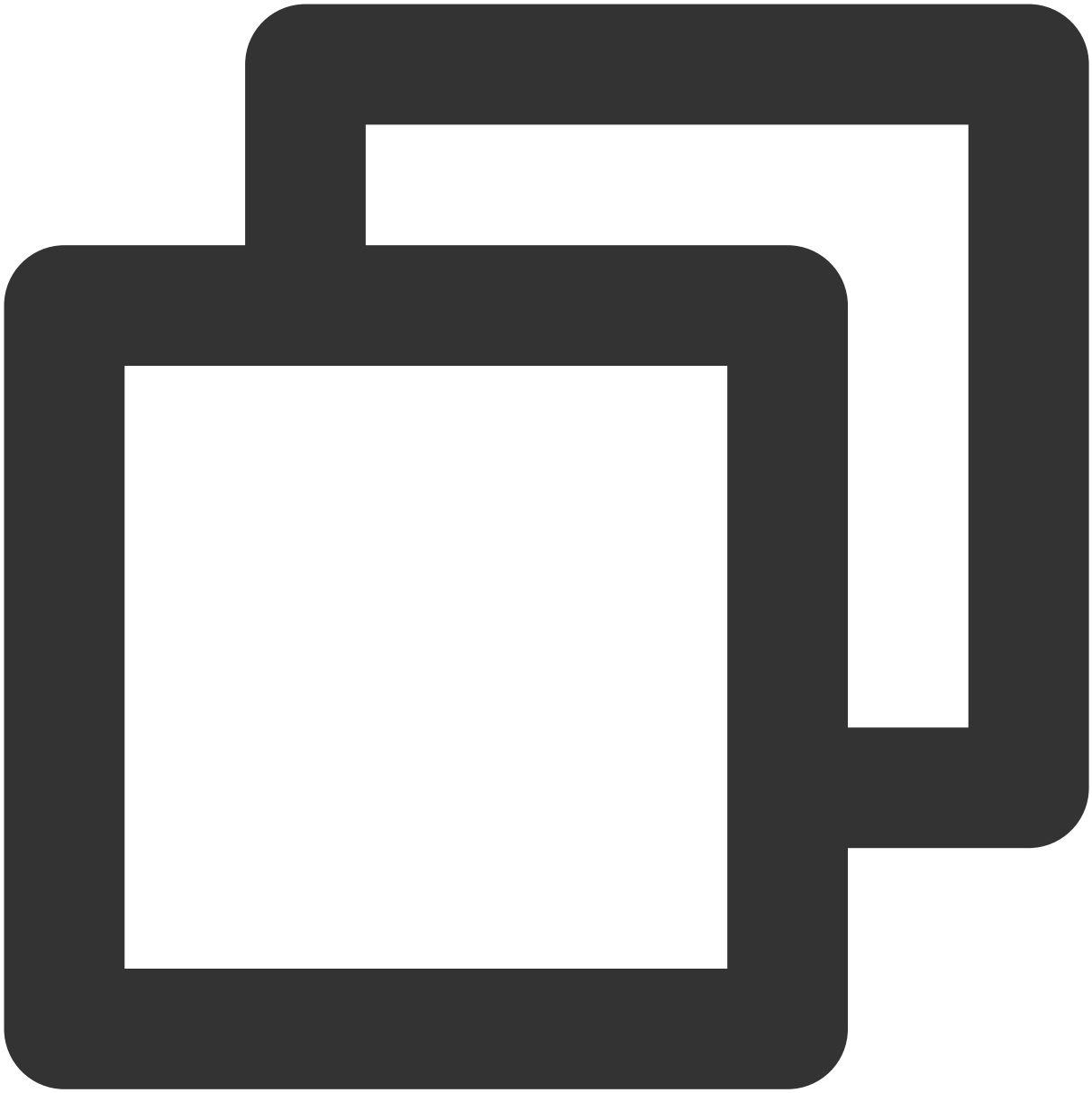

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>SuperResolution</Tag>
    <Name>TemplateName</Name>
    <Resolution>sdtohd</Resolution>
    <EnableScaleUp>true</EnableScaleUp>
```

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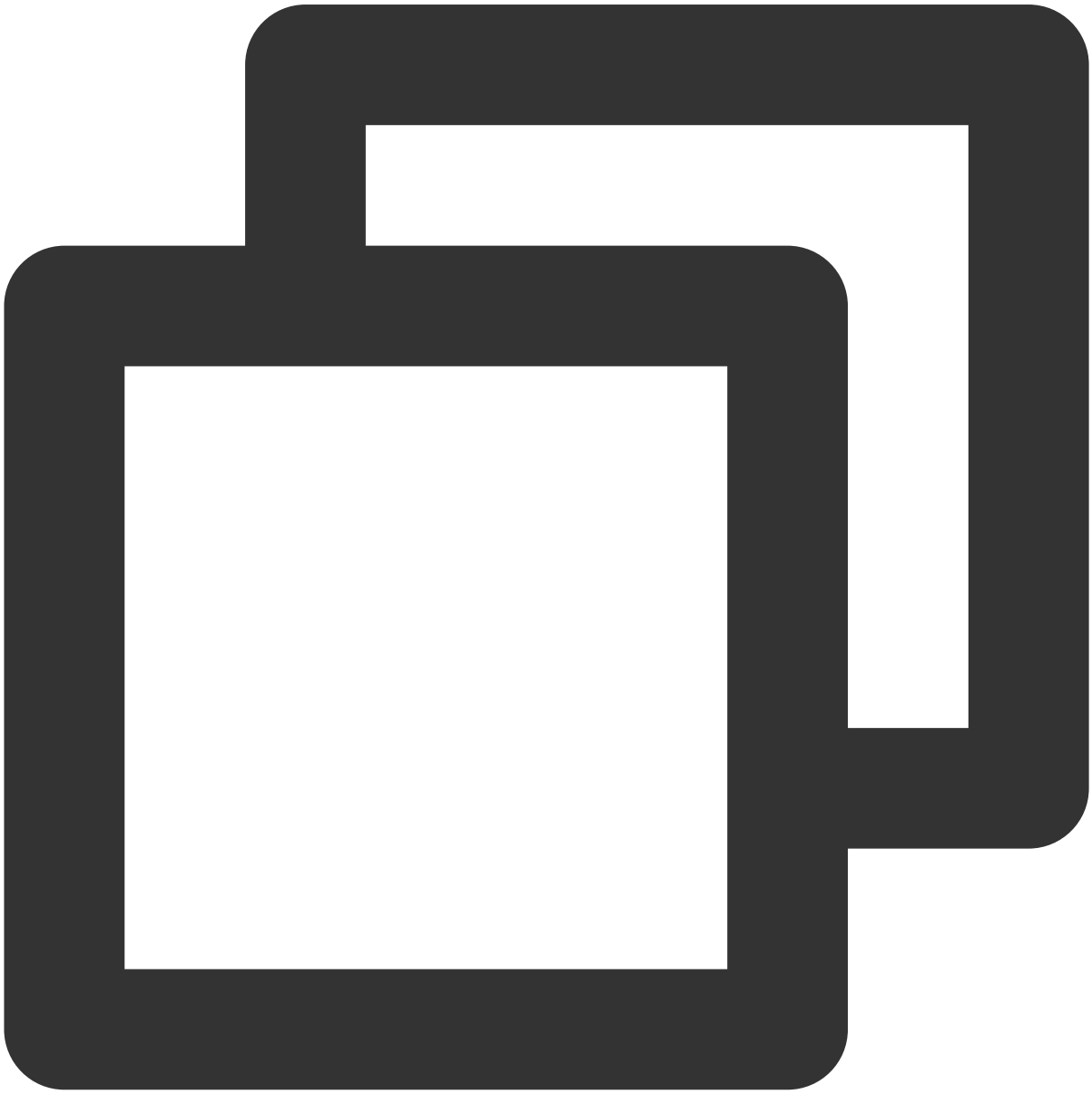
```
    <Version>Enhance</Version>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
```

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```
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>SuperResolution</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <SuperResolution>
            <Resolution>sdtohd</Resolution>
            <EnableScaleUp>true</EnableScaleUp>
            <Version>Enhance</Version>
        </SuperResolution>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Audio/Video Transcoding Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a transcoding template.

Request

Sample request

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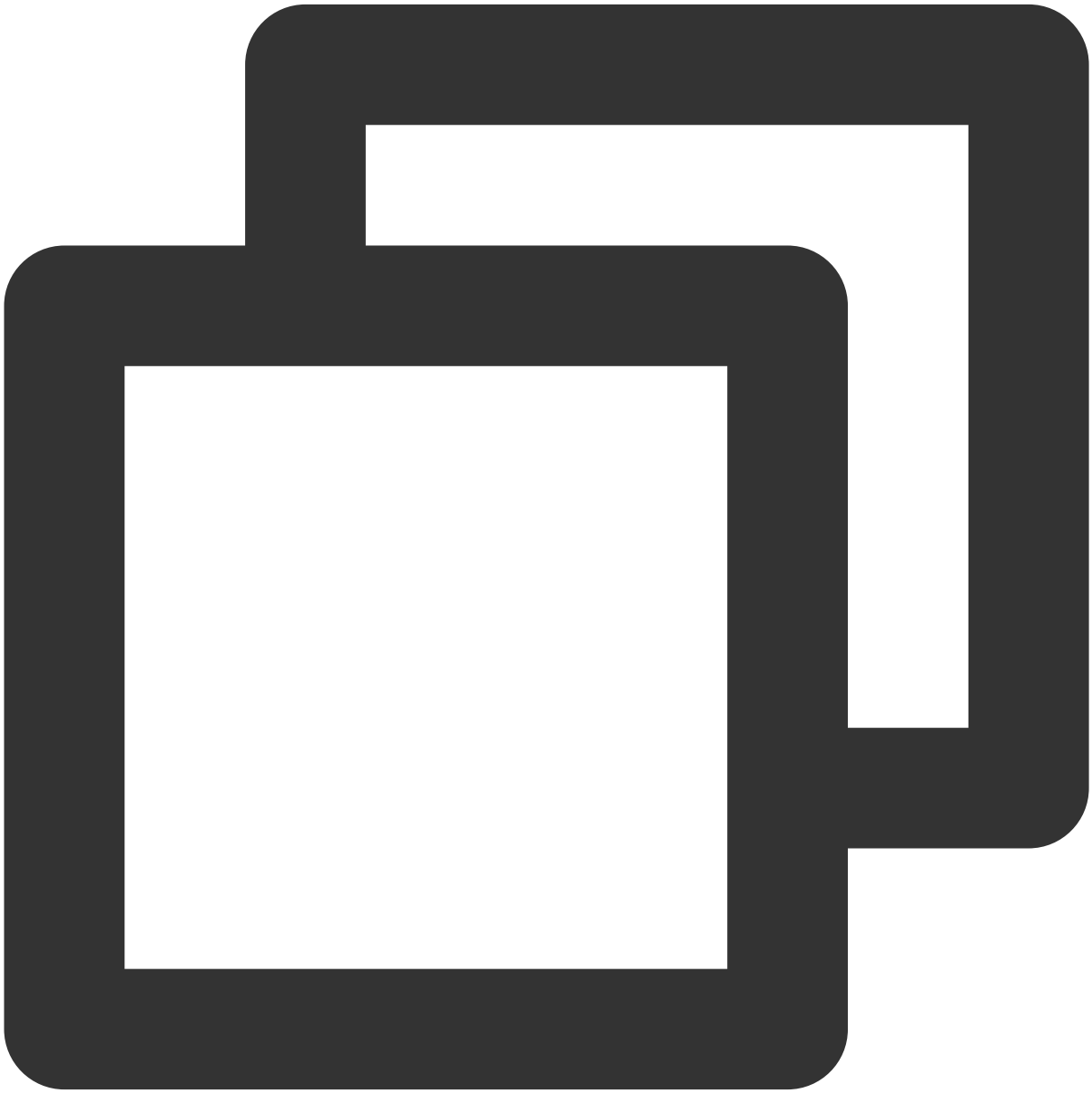

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

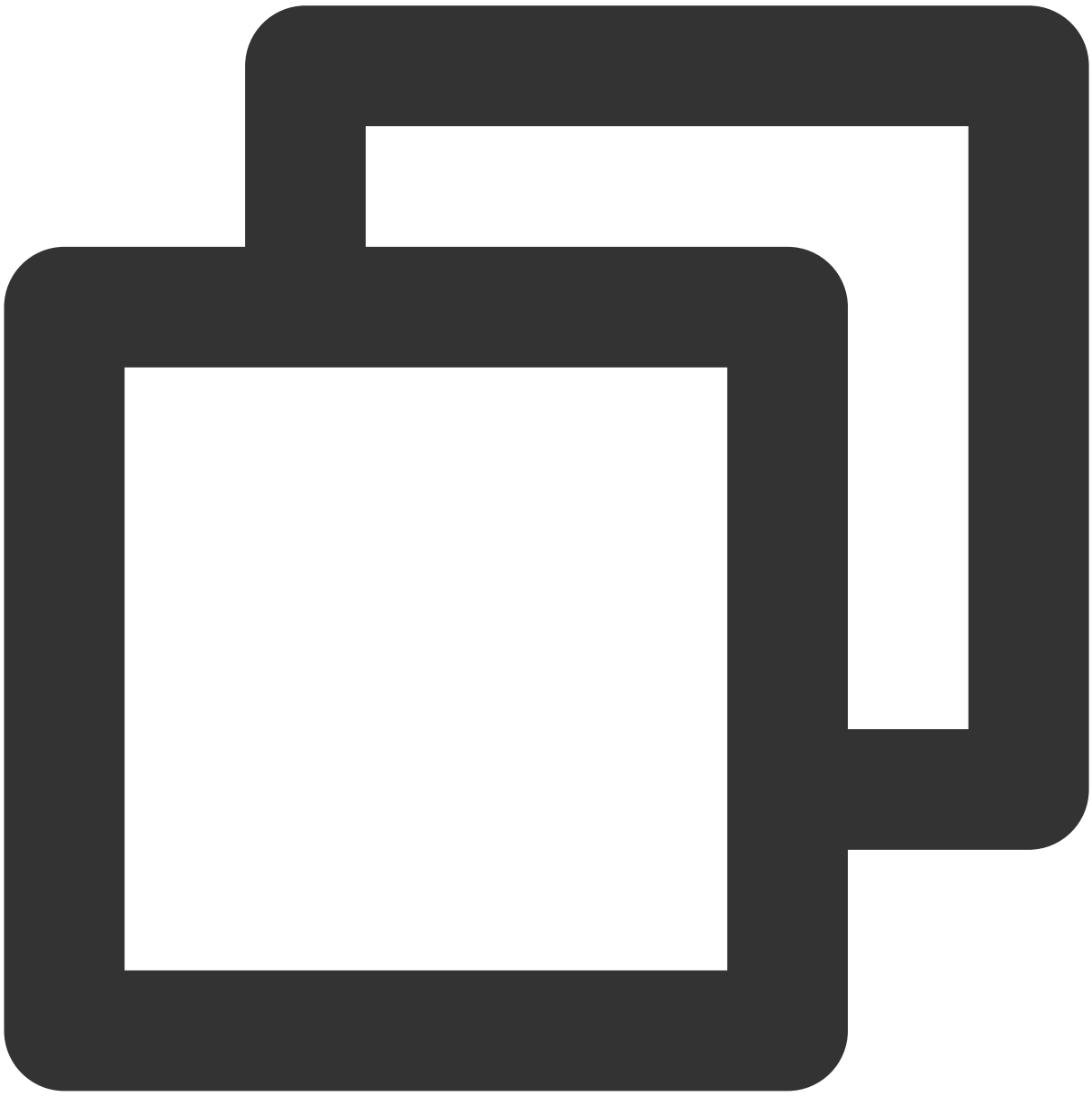
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Transcode</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Profile>high</Profile>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
        <Preset>medium</Preset>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </Audio>
    <TransConfig>
        <AdjDarMethod>scale</AdjDarMethod>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the transcoding template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

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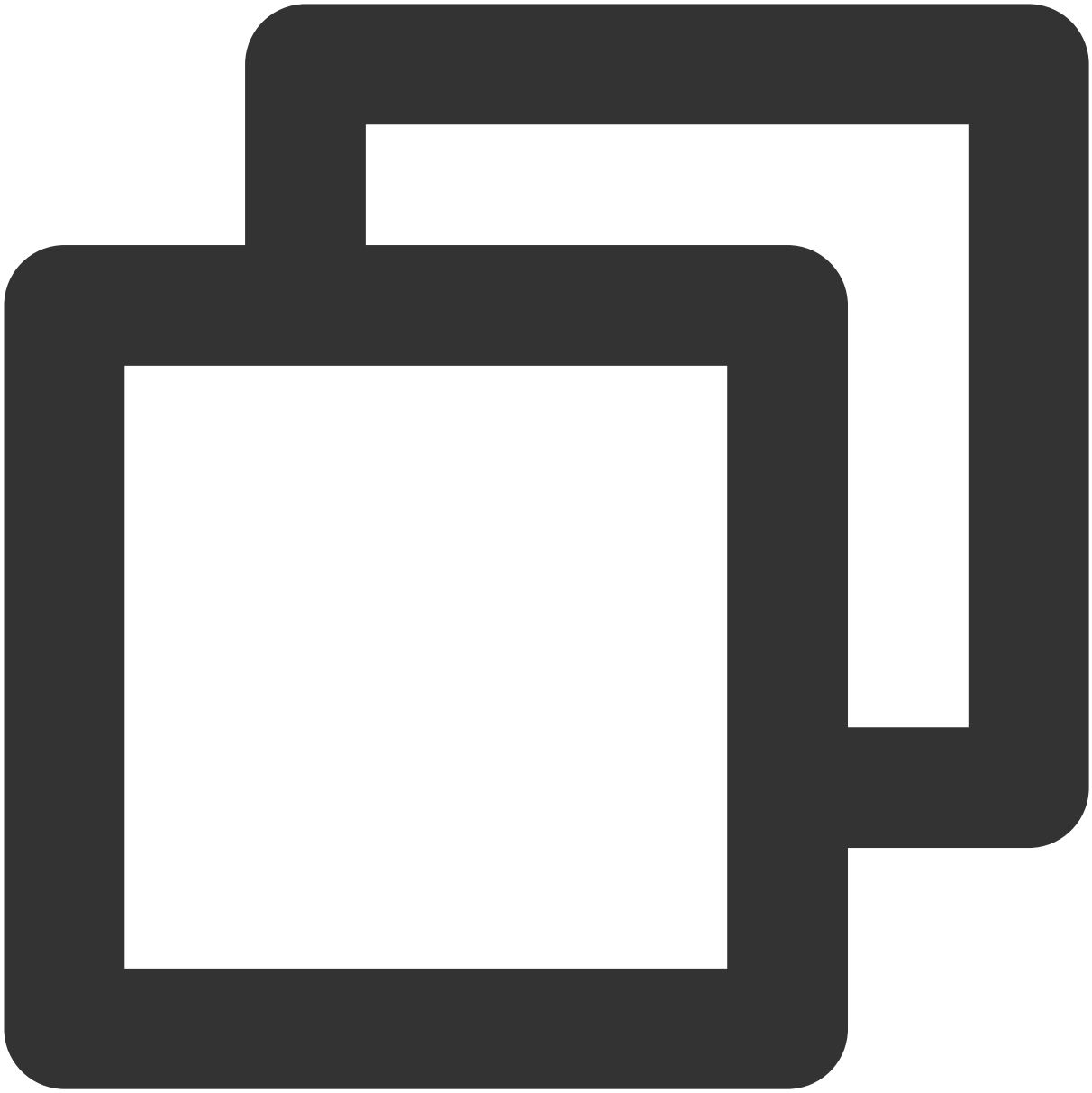
Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <Template>
        <Tag>Transcode</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <Container>
            <Format>mp4</Format>
        </Container>
```

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```
        <Video>
            <Codec>H.264</Codec>
            <Profile>high</Profile>
            <Bitrate>1000</Bitrate>
            <Width>1280</Width>
            <Fps>30</Fps>
            <Preset>medium</Preset>
        </Video>
        <Audio>
            <Codec>aac</Codec>
            <Samplerate>44100</Samplerate>
            <Bitrate>128</Bitrate>
            <Channels>4</Channels>
        </Audio>
        <TransConfig>
            <AdjDarMethod>scale</AdjDarMethod>
            <IsCheckReso>false</IsCheckReso>
            <ResoAdjMethod>1</ResoAdjMethod>
        </TransConfig>
        <TimeInterval>
            <Start>0</Start>
            <Duration>60</Duration>
        </TimeInterval>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the transcoding template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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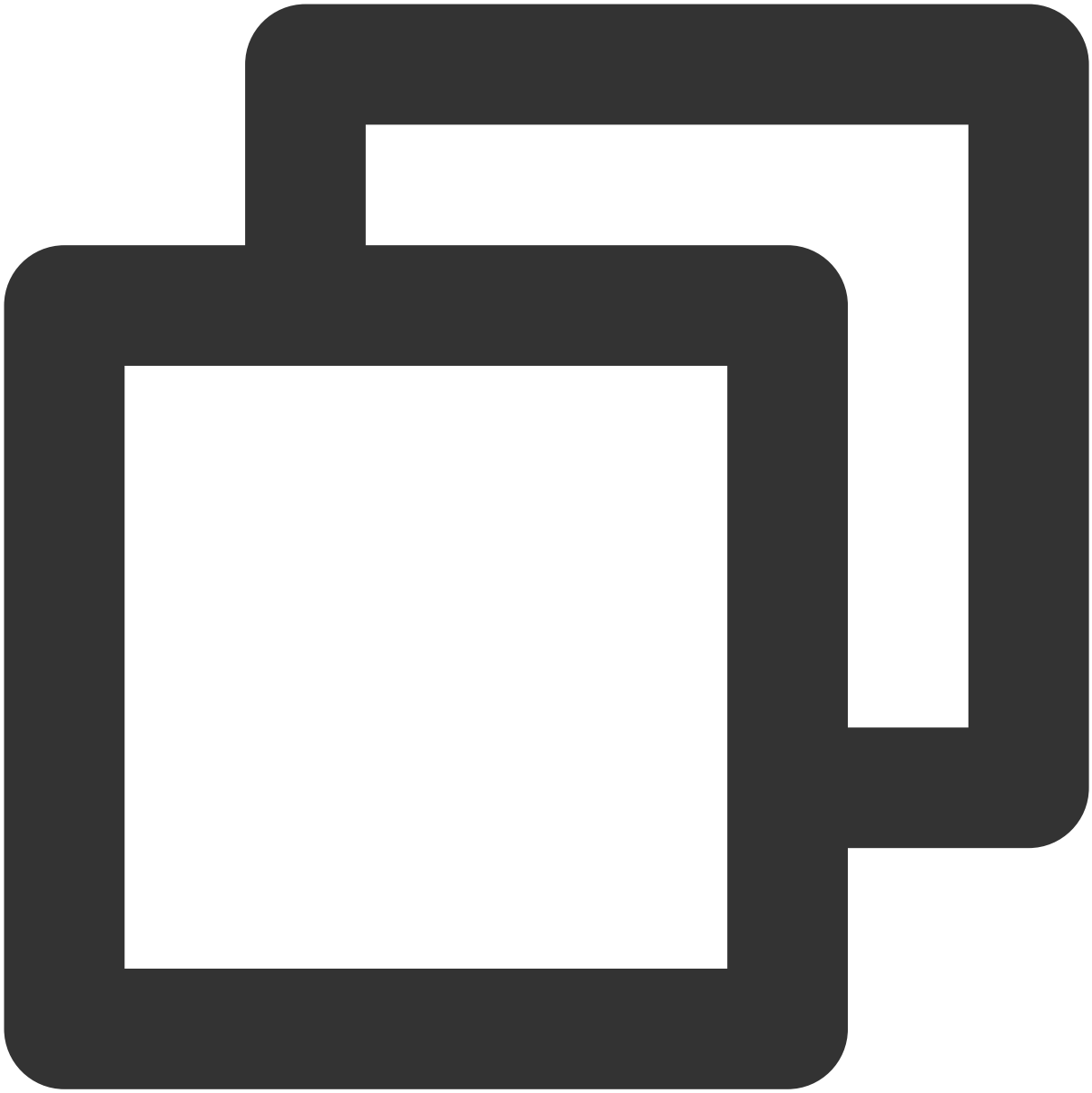

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>Transcode</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mp4</Format>
```

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```
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Profile>high</Profile>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
        <Preset>medium</Preset>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </Audio>
    <TransConfig>
        <AdjDarMethod>scale</AdjDarMethod>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

Response

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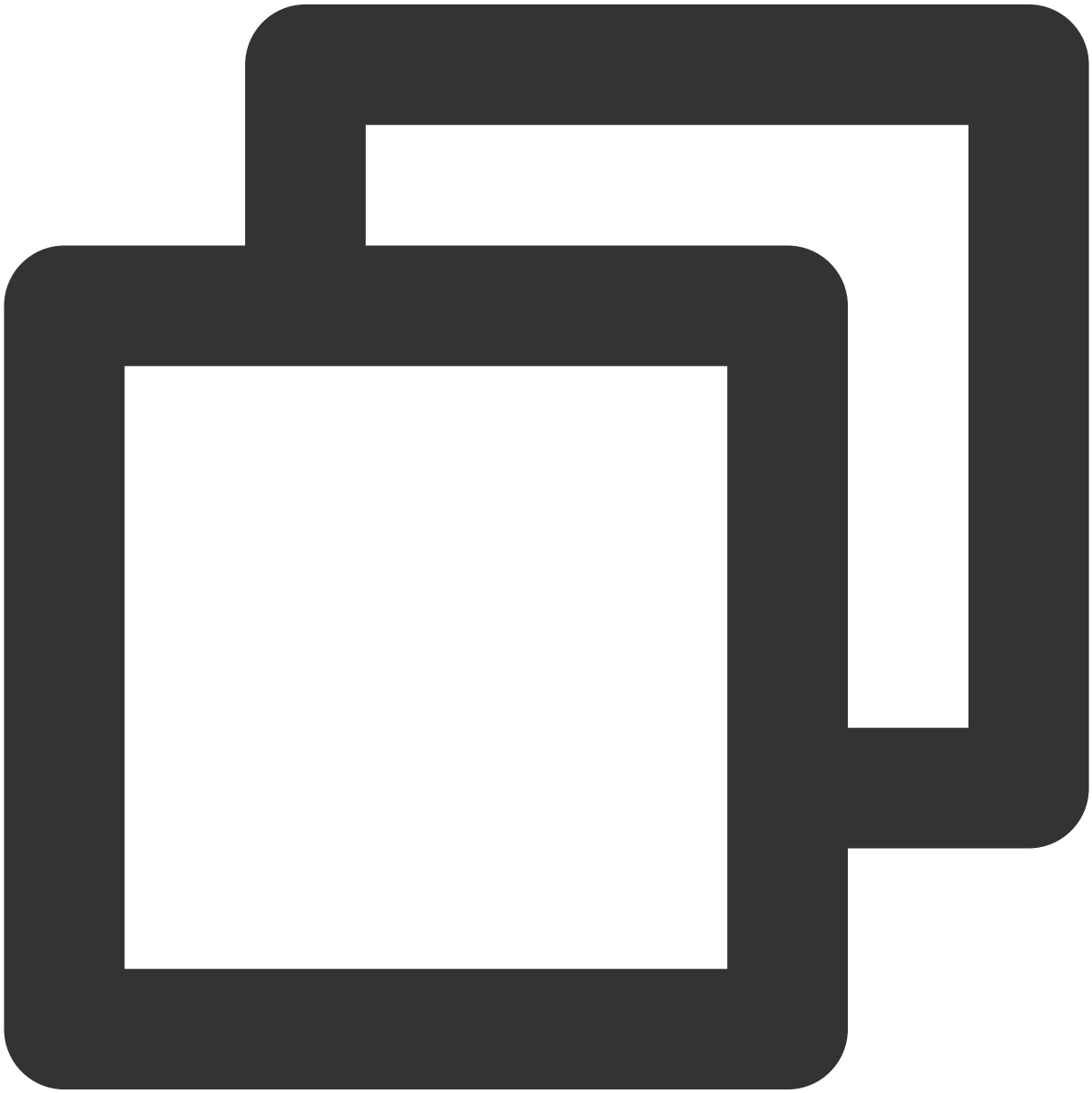

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****



<Response>
```

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```
    <Template>
        <Tag>Transcode</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <Container>
            <Format>mp4</Format>
        </Container>
        <Video>
            <Codec>H.264</Codec>
            <Profile>high</Profile>
            <Bitrate>1000</Bitrate>
            <Width>1280</Width>
            <Fps>30</Fps>
            <Preset>medium</Preset>
        </Video>
        <Audio>
            <Codec>aac</Codec>
            <Samplerate>44100</Samplerate>
            <Bitrate>128</Bitrate>
            <Channels>4</Channels>
        </Audio>
        <TransConfig>
            <AdjDarMethod>scale</AdjDarMethod>
            <IsCheckReso>false</IsCheckReso>
            <ResoAdjMethod>1</ResoAdjMethod>
        </TransConfig>
        <TimeInterval>
            <Start>0</Start>
            <Duration>60</Duration>
        </TimeInterval>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Professional Transcoding Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a professional transcoding template.

Request

Sample request

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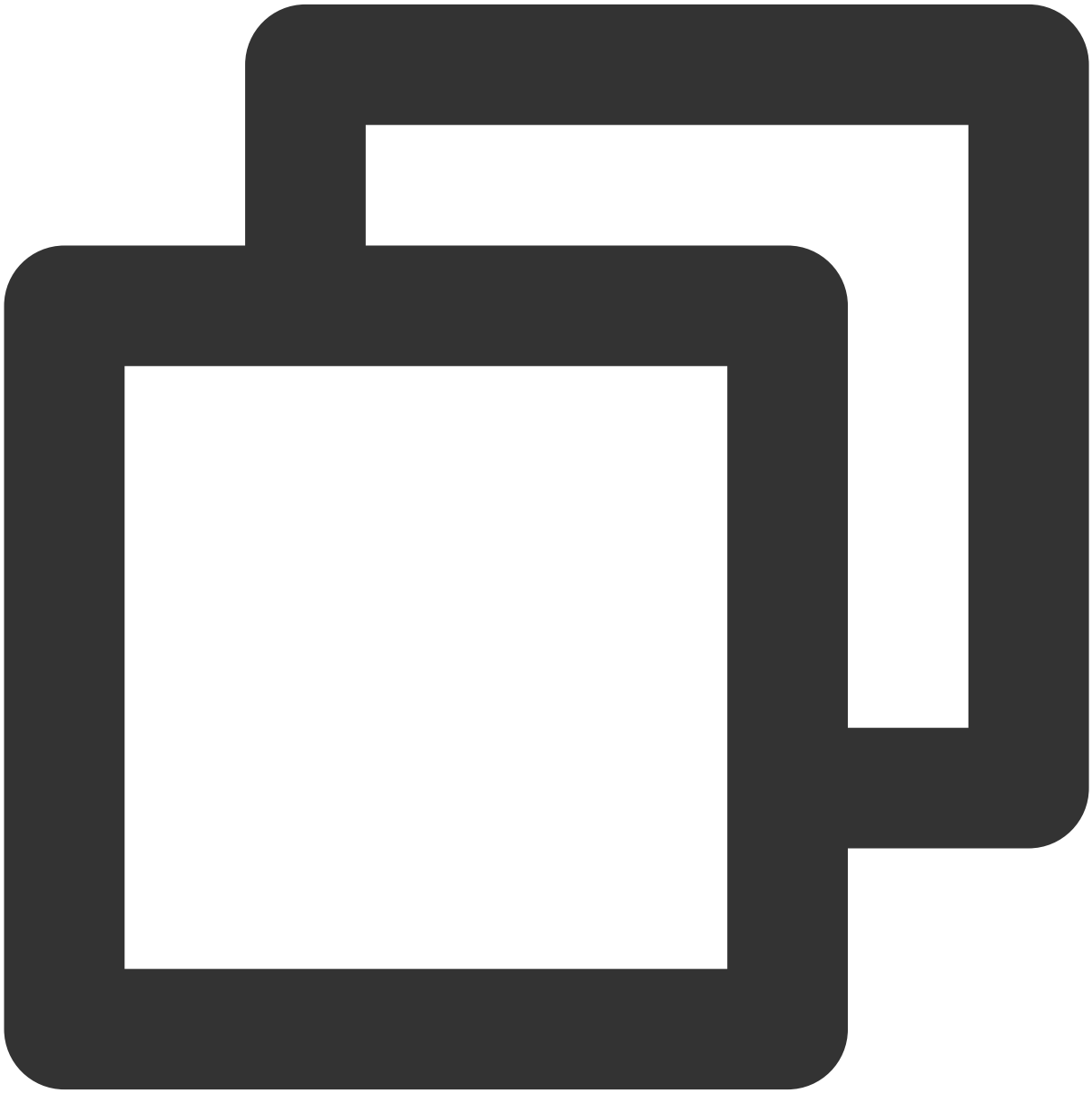

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

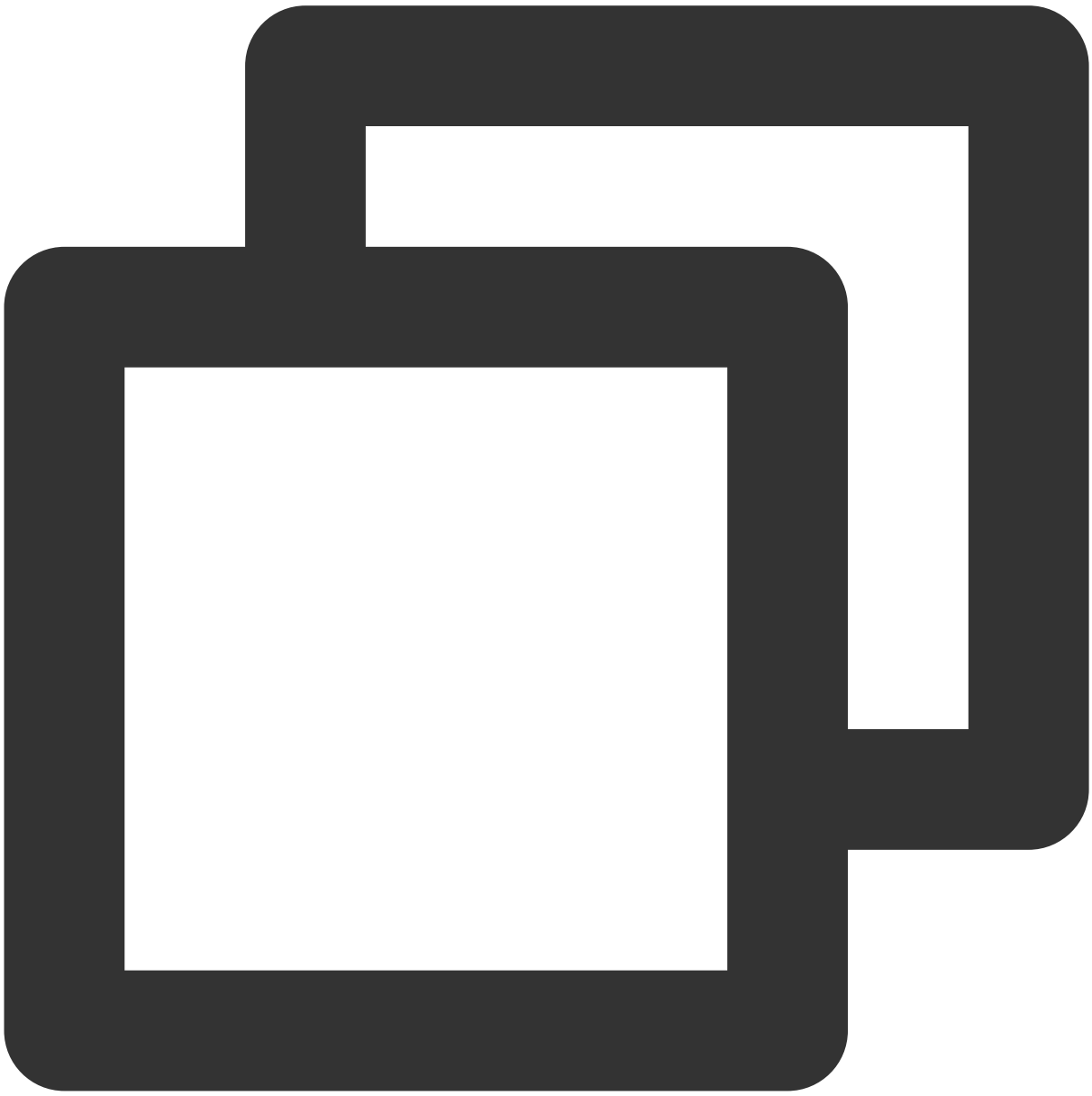
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>TranscodePro</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mxf</Format>
    </Container>
    <Video>
        <Codec>xavc</Codec>
        <Profile>XAVC-HD_422_10bit</Profile>
        <Width>1920</Width>
        <Height>1080</Height>
        <Interlaced>true</Interlaced>
        <Fps>30000/1001</Fps>
        <Bitrate>50000</Bitrate>
    </Video>
    <Audio>
        <Codec>pcm_s24le</Codec>
    </Audio>
    <TransConfig>
        <AdjDarMethod>scale</AdjDarMethod>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the professional transcoding template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

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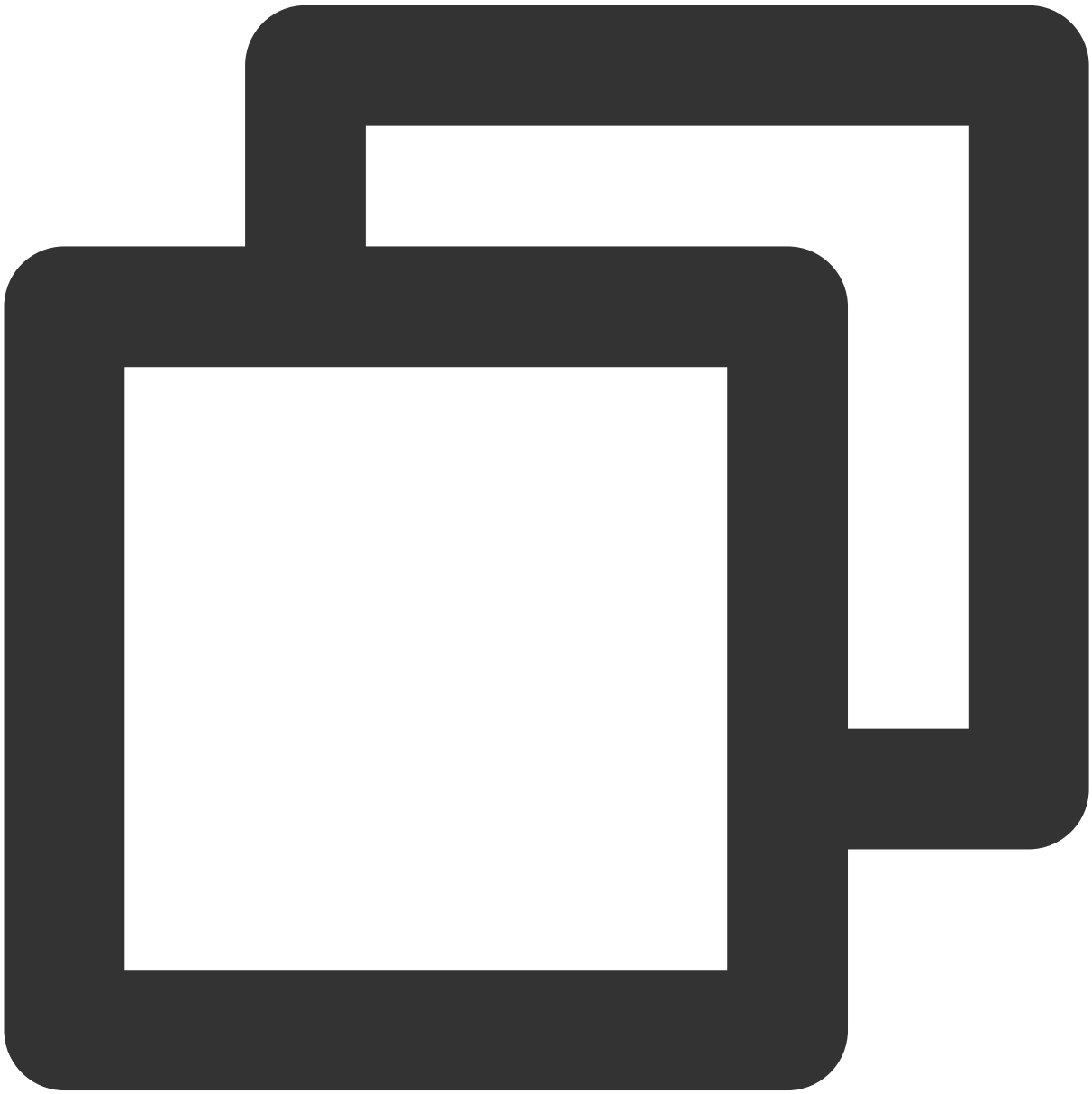
The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <Template>
        <Tag>TranscodePro</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <Container>
            <Format>mxf</Format>
        </Container>
        <Video>
```

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```
            <Codec>xavc</Codec>
            <Profile>XAVC-HD_422_10bit</Profile>
            <Width>1920</Width>
            <Height>1080</Height>
            <Interlaced>true</Interlaced>
            <Fps>30000/1001</Fps>
            <Bitrate>50000</Bitrate>
        </Video>
        <Audio>
            <Codec>pcm_s24le</Codec>
        </Audio>
        <TransConfig>
            <AdjDarMethod>scale</AdjDarMethod>
            <IsCheckReso>false</IsCheckReso>
            <ResoAdjMethod>1</ResoAdjMethod>
        </TransConfig>
        <TimeInterval>
            <Start>0</Start>
            <Duration>60</Duration>
        </TimeInterval>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the professional transcoding template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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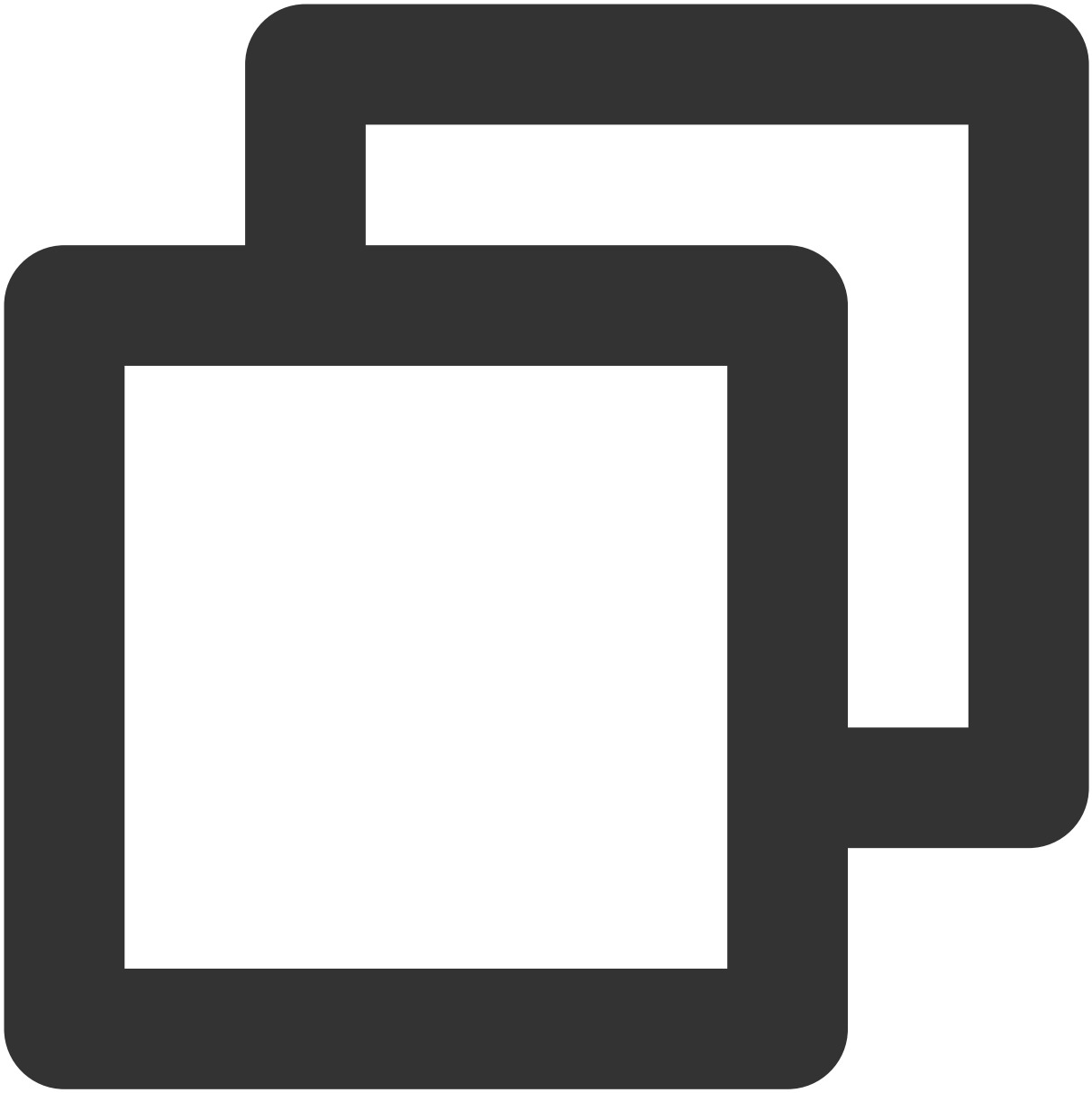

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>TranscodePro</Tag>
    <Name>TemplateName</Name>
    <Container>
        <Format>mxf</Format>
```

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```
    </Container>
    <Video>
        <Codec>xavc</Codec>
        <Profile>XAVC-HD_422_10bit</Profile>
        <Width>1920</Width>
        <Height>1080</Height>
        <Interlaced>true</Interlaced>
        <Fps>30000/1001</Fps>
        <Bitrate>50000</Bitrate>
    </Video>
    <Audio>
        <Codec>pcm_s24le</Codec>
    </Audio>
    <TransConfig>
        <AdjDarMethod>scale</AdjDarMethod>
        <IsCheckReso>false</IsCheckReso>
        <ResoAdjMethod>1</ResoAdjMethod>
    </TransConfig>
    <TimeInterval>
        <Start>0</Start>
        <Duration>60</Duration>
    </TimeInterval>
</Request>
```

Response

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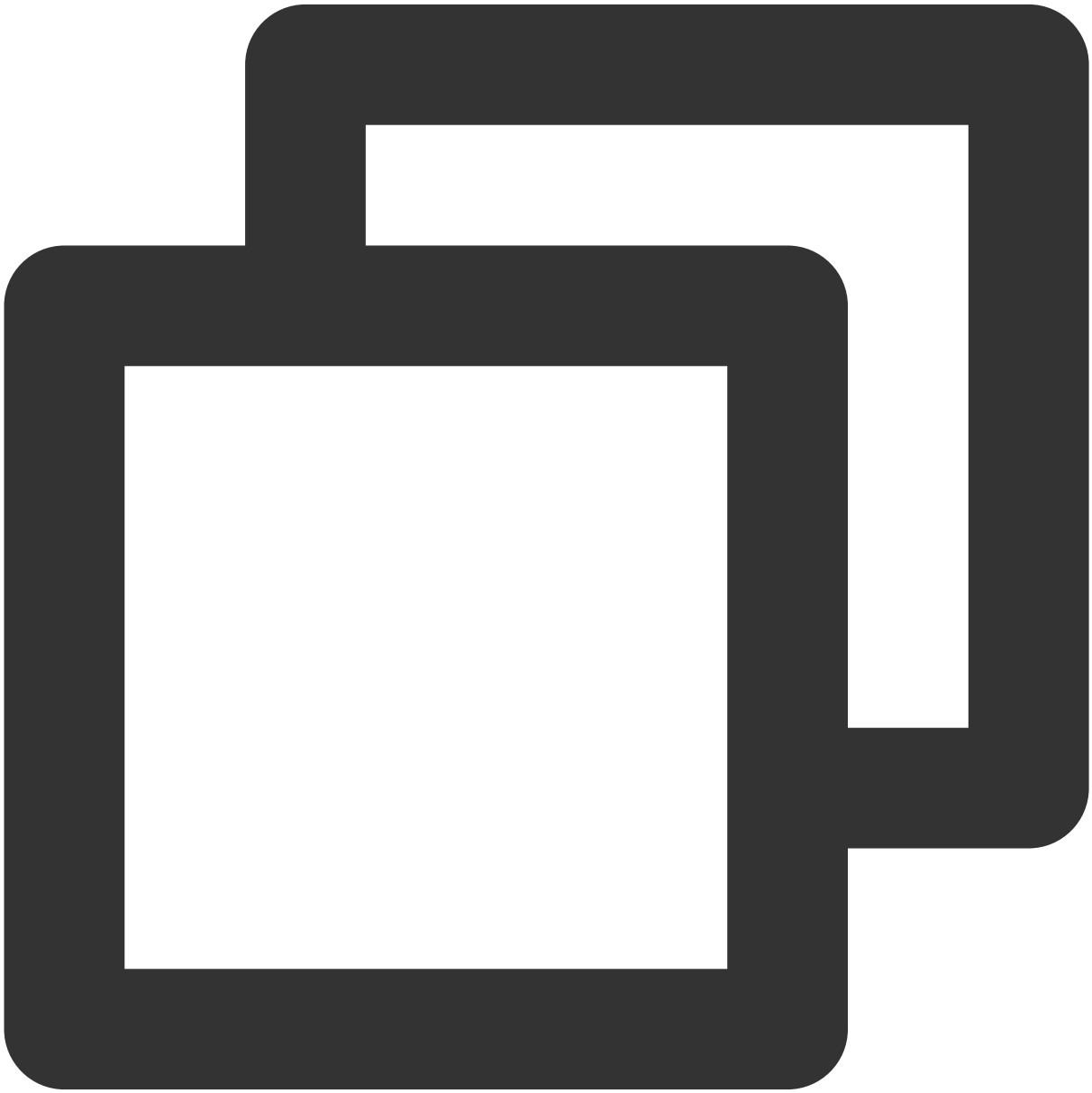

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>TranscodePro</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <Container>
            <Format>mxf</Format>
        </Container>
        <Video>
            <Codec>xavc</Codec>
            <Profile>XAVC-HD_422_10bit</Profile>
            <Width>1920</Width>
            <Height>1080</Height>
            <Interlaced>true</Interlaced>
            <Fps>30000/1001</Fps>
            <Bitrate>50000</Bitrate>
        </Video>
        <Audio>
            <Codec>pcm_s24le</Codec>
        </Audio>
        <TransConfig>
            <AdjDarMethod>scale</AdjDarMethod>
            <IsCheckReso>false</IsCheckReso>
            <ResoAdjMethod>1</ResoAdjMethod>
        </TransConfig>
        <TimeInterval>
            <Start>0</Start>
            <Duration>60</Duration>
        </TimeInterval>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Text-to-Speech Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a text-to-speech template.

Request

Sample request

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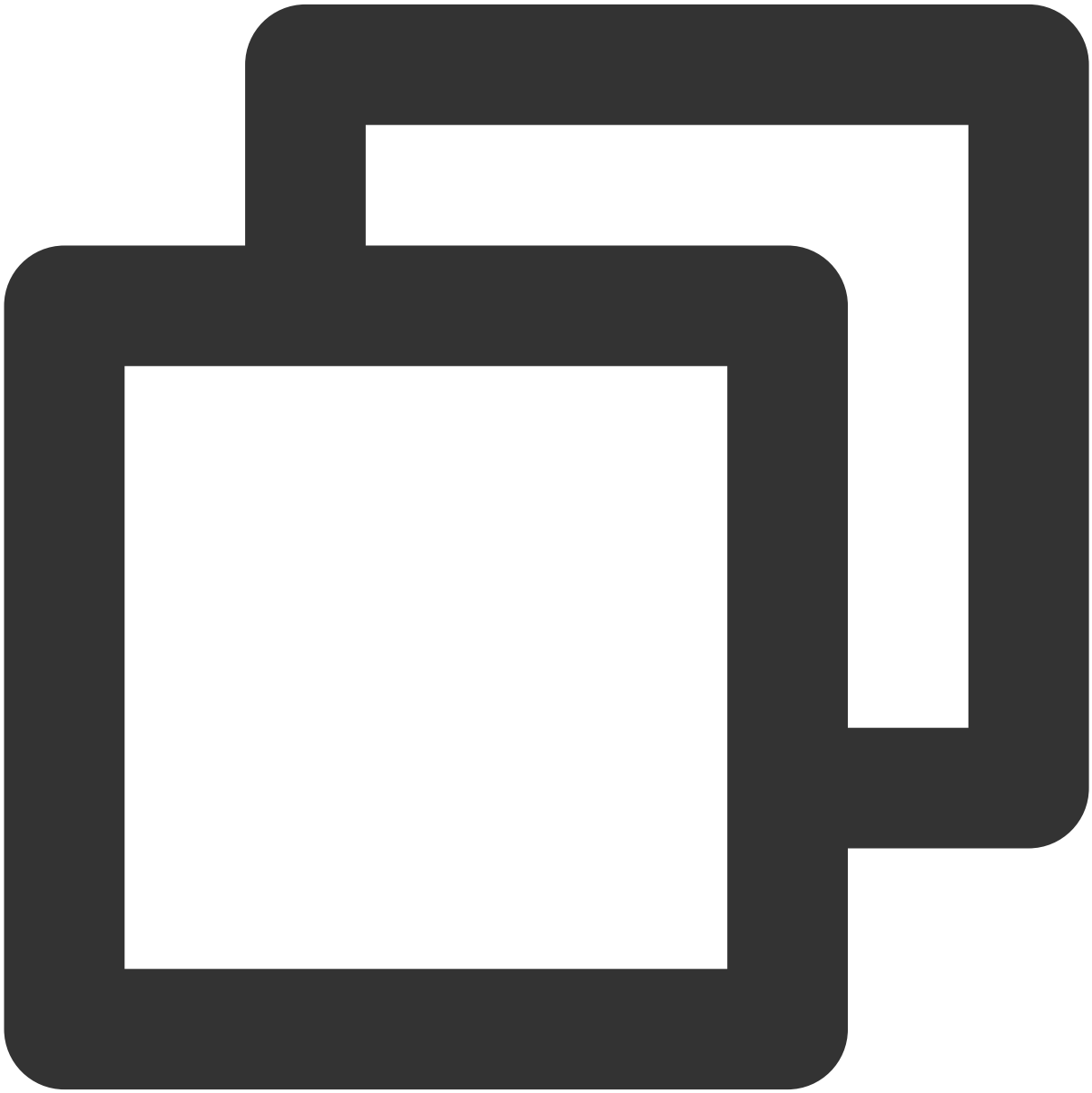

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

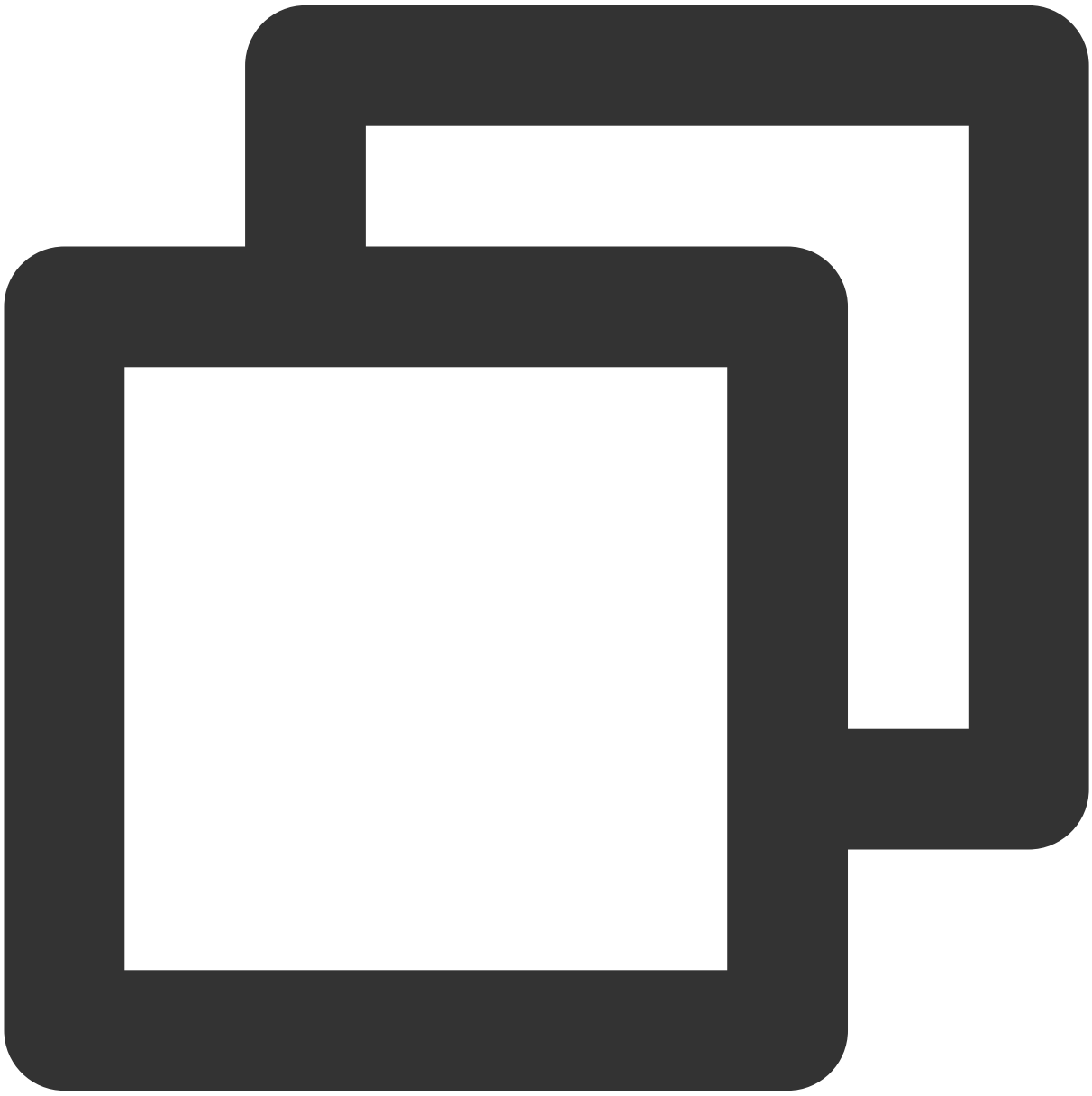
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Tts</Tag>
    <Name>TemplateName</Name>
    <Mode>Sync</Mode>
    <Codec>pcm</Codec>
    <VoiceType>ruxue</VoiceType>
    <Volume>2</Volume>
    <Speed>200</Speed>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the text-to-speech template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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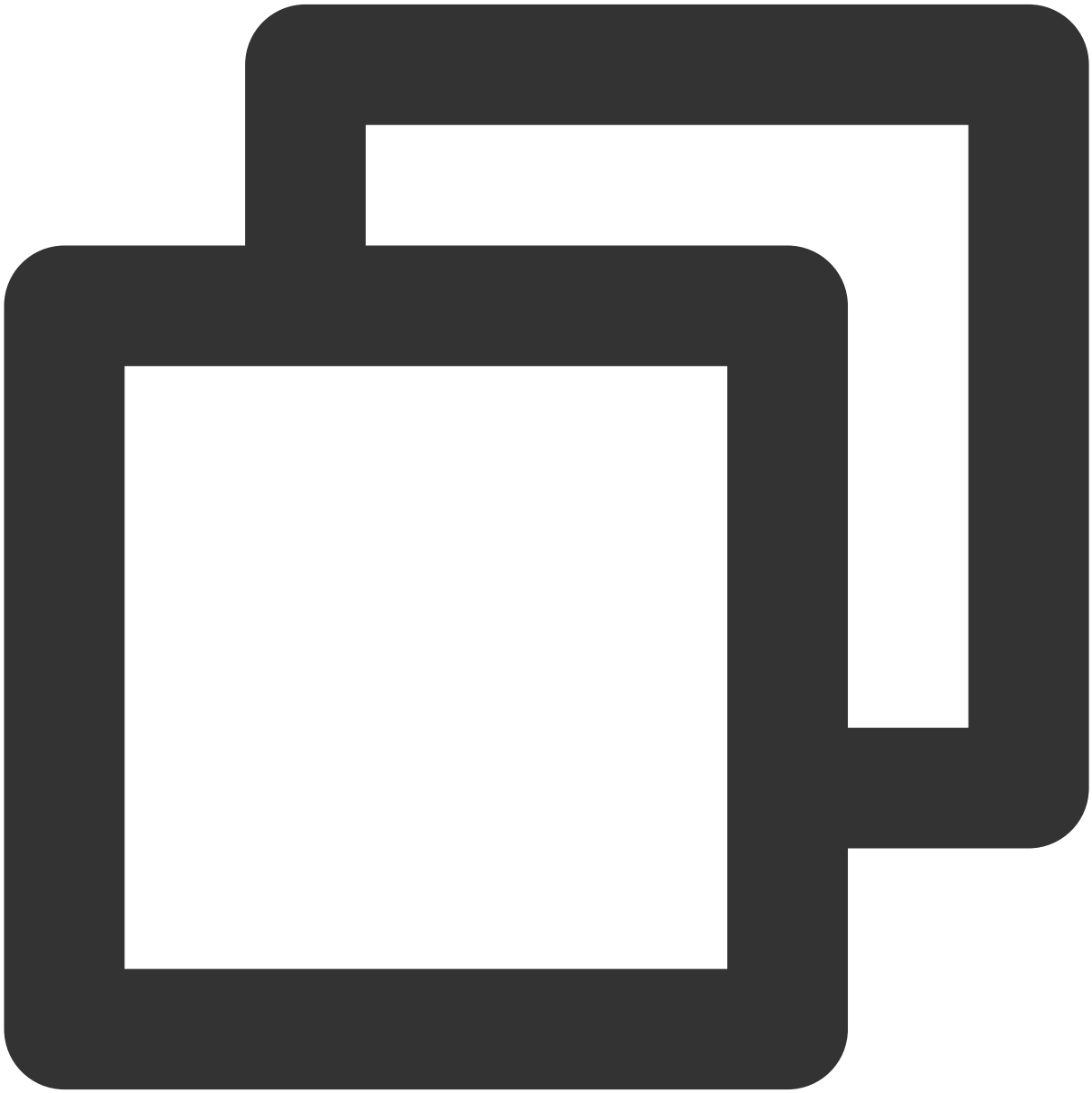

```
<Response>
    <Template>
        <Tag>Tts</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <TtsTpl>
            <Mode>Sync</Mode>
            <Codec>pcm</Codec>
            <VoiceType>ruxue</VoiceType>
            <Volume>2</Volume>
            <Speed>200</Speed>
```

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```
        </TtsTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the text-to-speech template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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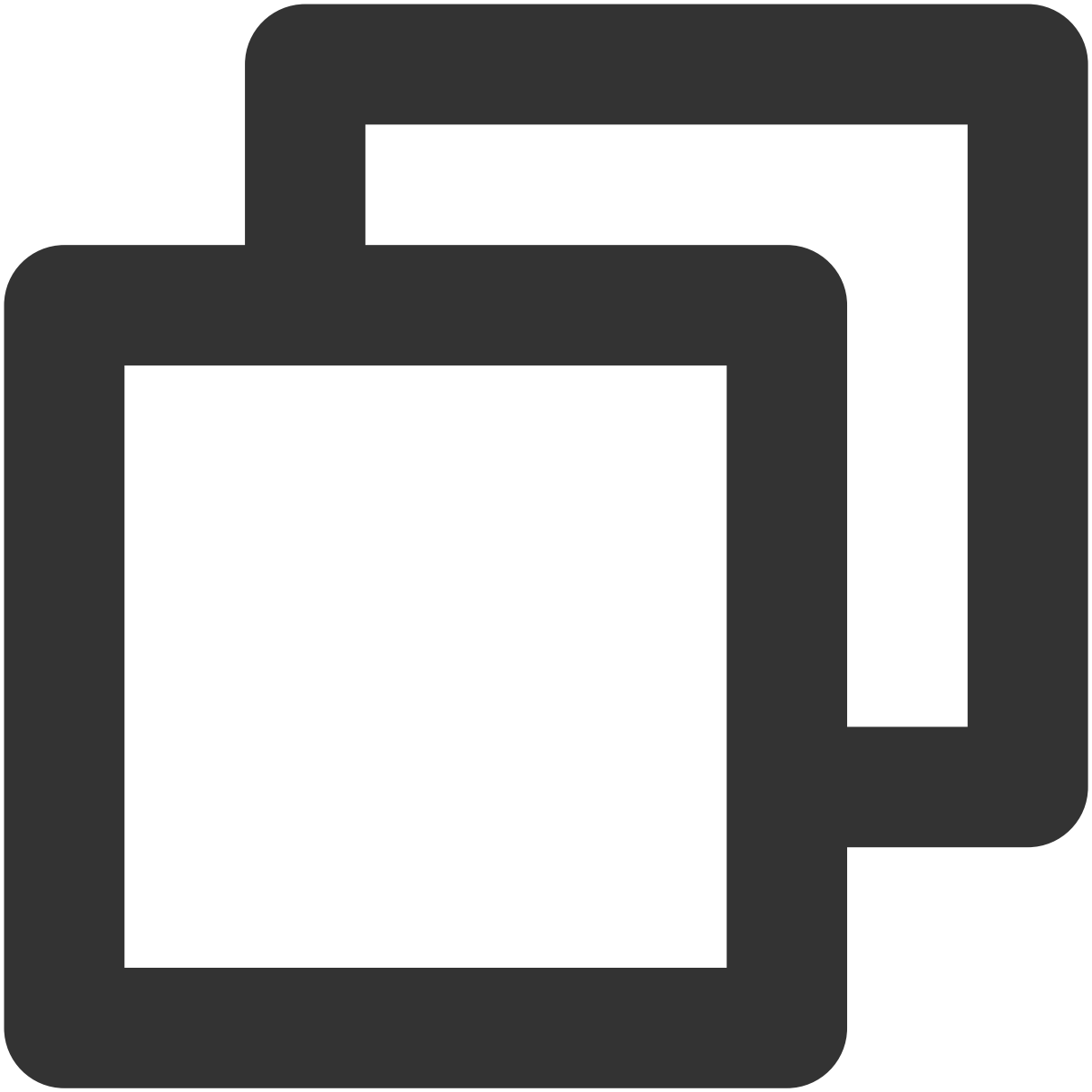

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>Tts</Tag>
    <Name>TemplateName</Name>
    <Mode>Sync</Mode>
    <Codec>pcm</Codec>
```

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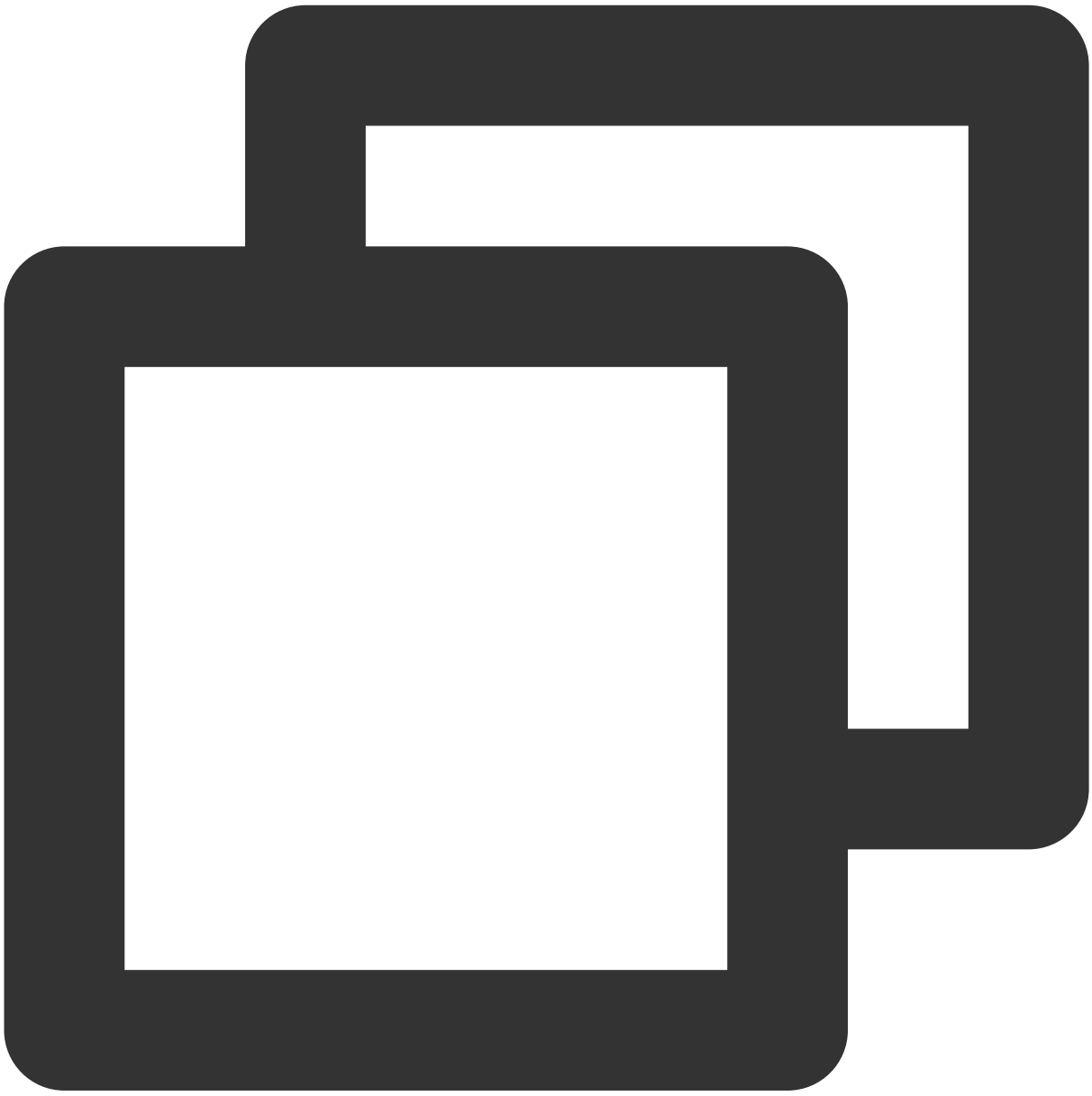
```
    <VoiceType>ruxue</VoiceType>
    <Volume>2</Volume>
    <Speed>200</Speed>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
```

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```
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>Tts</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <TtsTpl>
            <Mode>Sync</Mode>
            <Codec>pcm</Codec>
            <VoiceType>ruxue</VoiceType>
            <Volume>2</Volume>
            <Speed>200</Speed>
        </TtsTpl>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Video Montage Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a video montage template.

Request

Sample request

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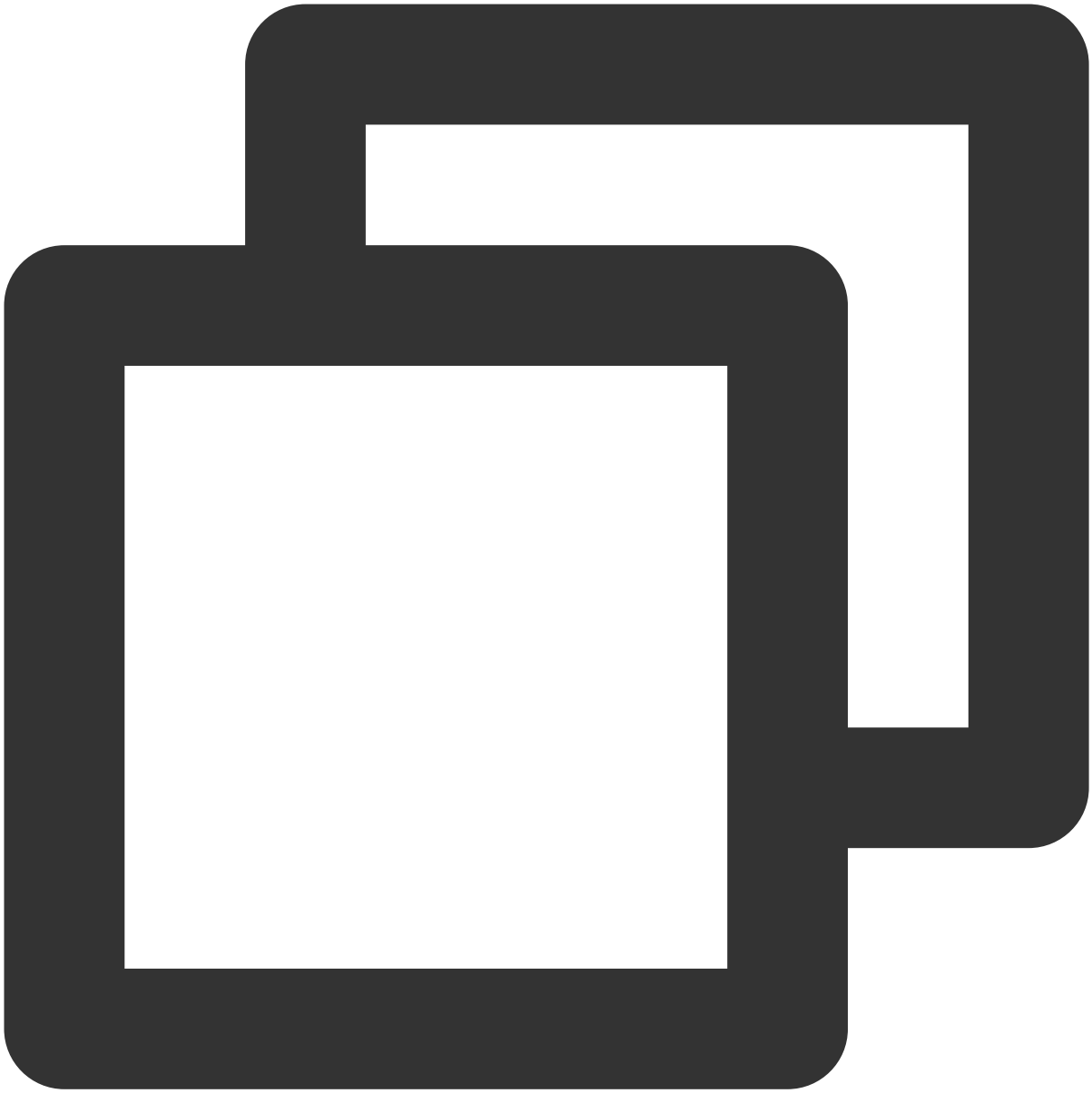

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

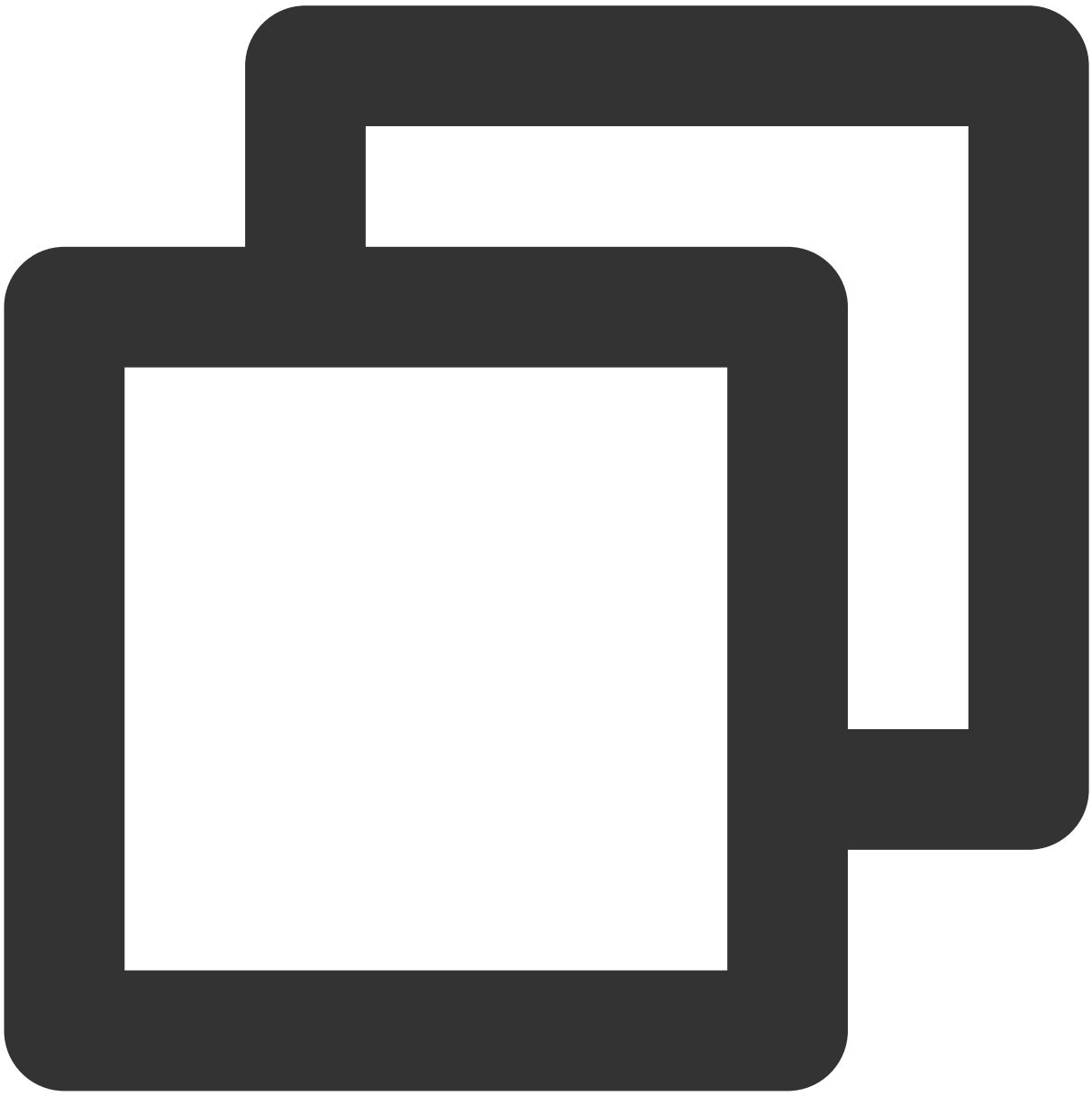
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>VideoMontage</Tag>
    <Name>TemplateName</Name>
    <Duration>10.5</Duration>
    <Container>
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
        <Remove>false</Remove>
    </Audio>
    <AudioMix>
        <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3</AudioS
        <MixMode>Once</MixMode>
        <Replace>true</Replace>
    </AudioMix>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the video montage template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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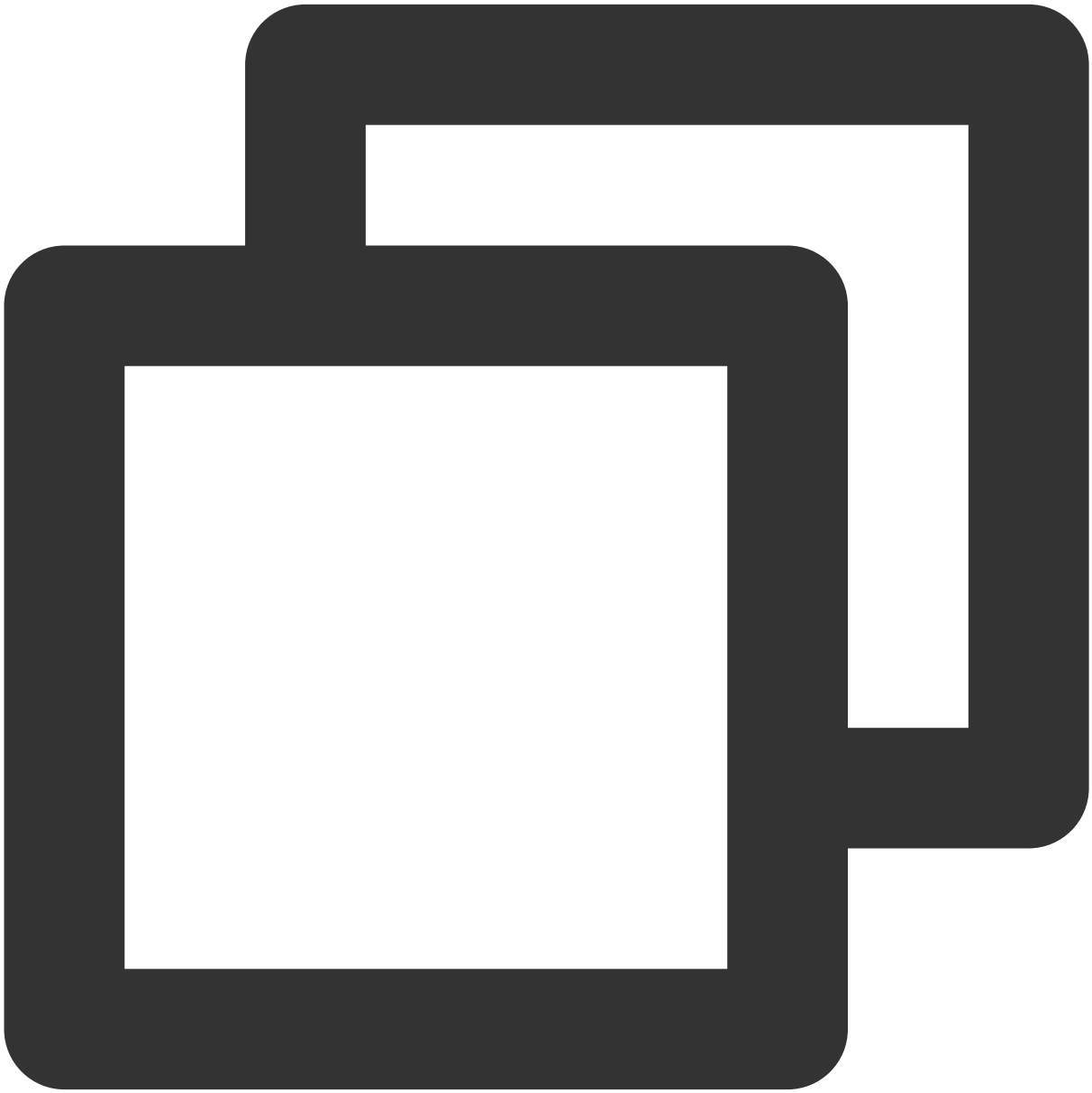

```
<Response>
    <Template>
        <Tag>VideoMontage</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <VideoMontage>
            <Duration>10.5</Duration>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
```

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```
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
                <Remove>false</Remove>
            </Audio>
            <AudioMix>
                <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3
                <MixMode>Once</MixMode>
                <Replace>true</Replace>
            </AudioMix>
        </VideoMontage>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the video montage template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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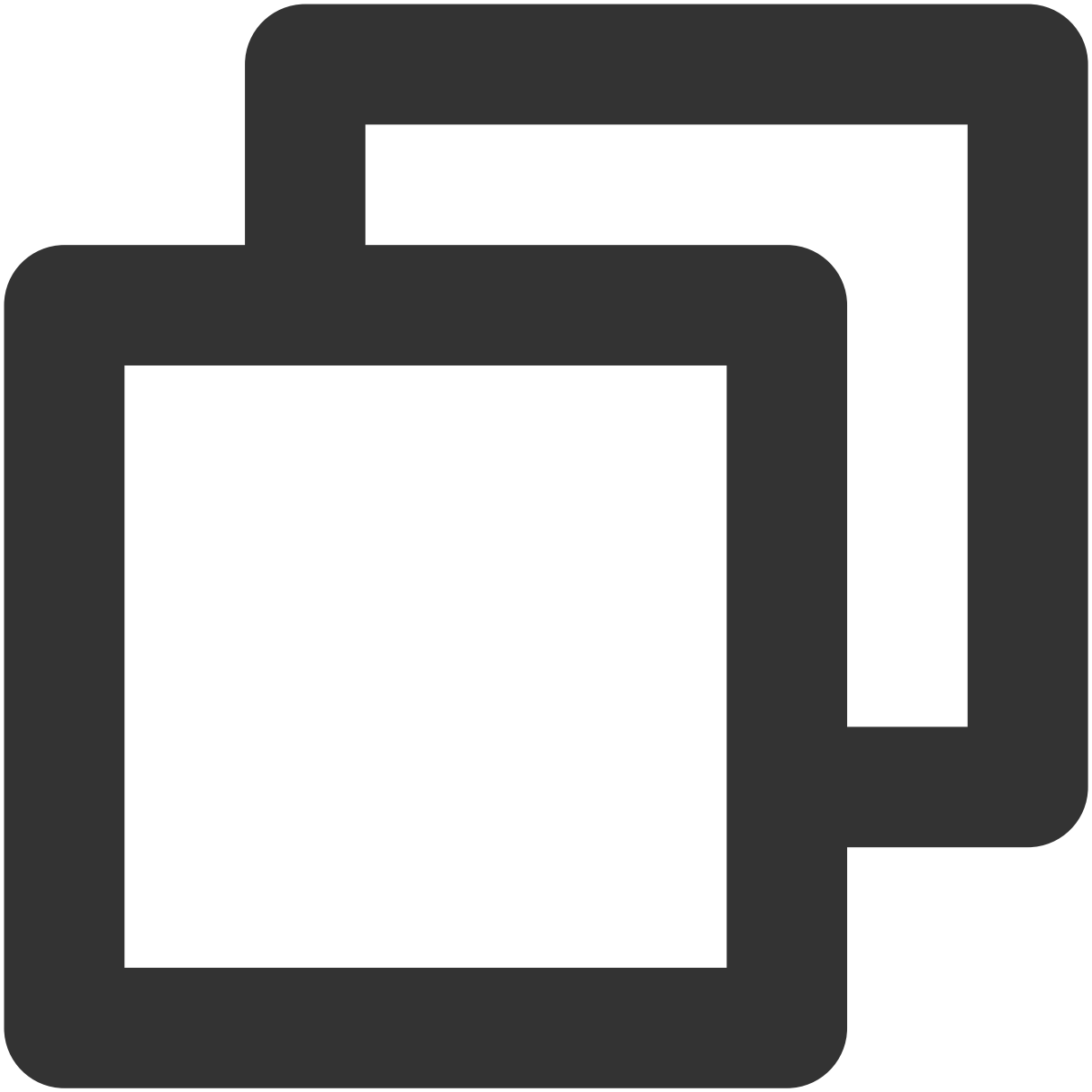

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>VideoMontage</Tag>
    <Name>TemplateName</Name>
    <Duration>10.5</Duration>
    <Container>
```

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```
        <Format>mp4</Format>
    </Container>
    <Video>
        <Codec>H.264</Codec>
        <Bitrate>1000</Bitrate>
        <Width>1280</Width>
        <Fps>30</Fps>
    </Video>
    <Audio>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
        <Remove>false</Remove>
    </Audio>
    <AudioMix>
        <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3</AudioS
        <MixMode>Once</MixMode>
        <Replace>true</Replace>
    </AudioMix>
</Request>
```

Response

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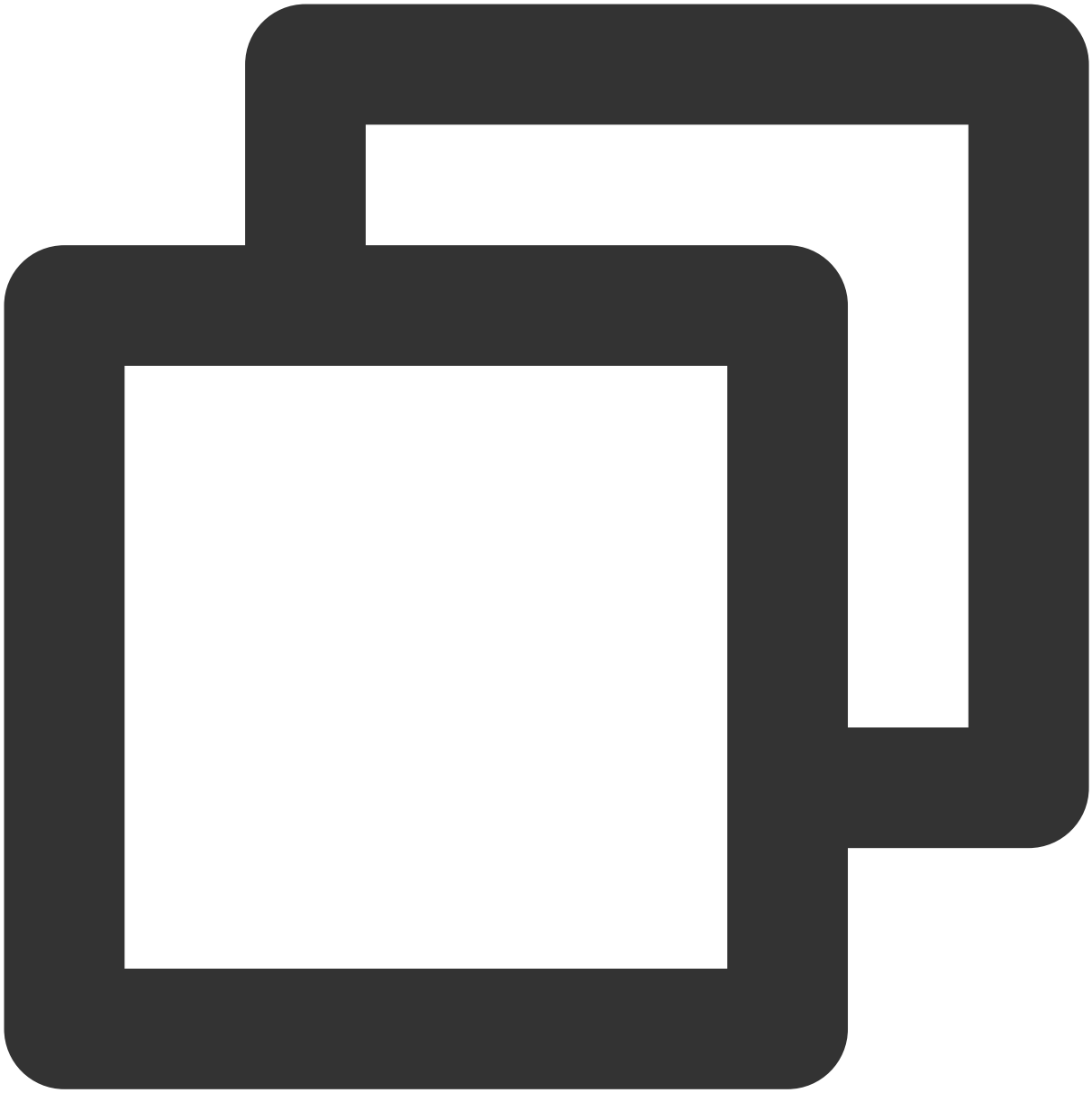

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>VideoMontage</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <VideoMontage>
            <Duration>10.5</Duration>
            <Container>
                <Format>mp4</Format>
            </Container>
            <Video>
                <Codec>H.264</Codec>
                <Bitrate>1000</Bitrate>
                <Width>1280</Width>
                <Fps>30</Fps>
            </Video>
            <Audio>
                <Codec>aac</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>128</Bitrate>
                <Channels>4</Channels>
                <Remove>false</Remove>
            </Audio>
            <AudioMix>
                <AudioSource>https://test-xxx.cos.ap-chongqing.myqcloud.com/mix.mp3
                <MixMode>Once</MixMode>
                <Replace>true</Replace>
            </AudioMix>
        </VideoMontage>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Video Enhancement Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a video enhancement template.

Request

Sample request

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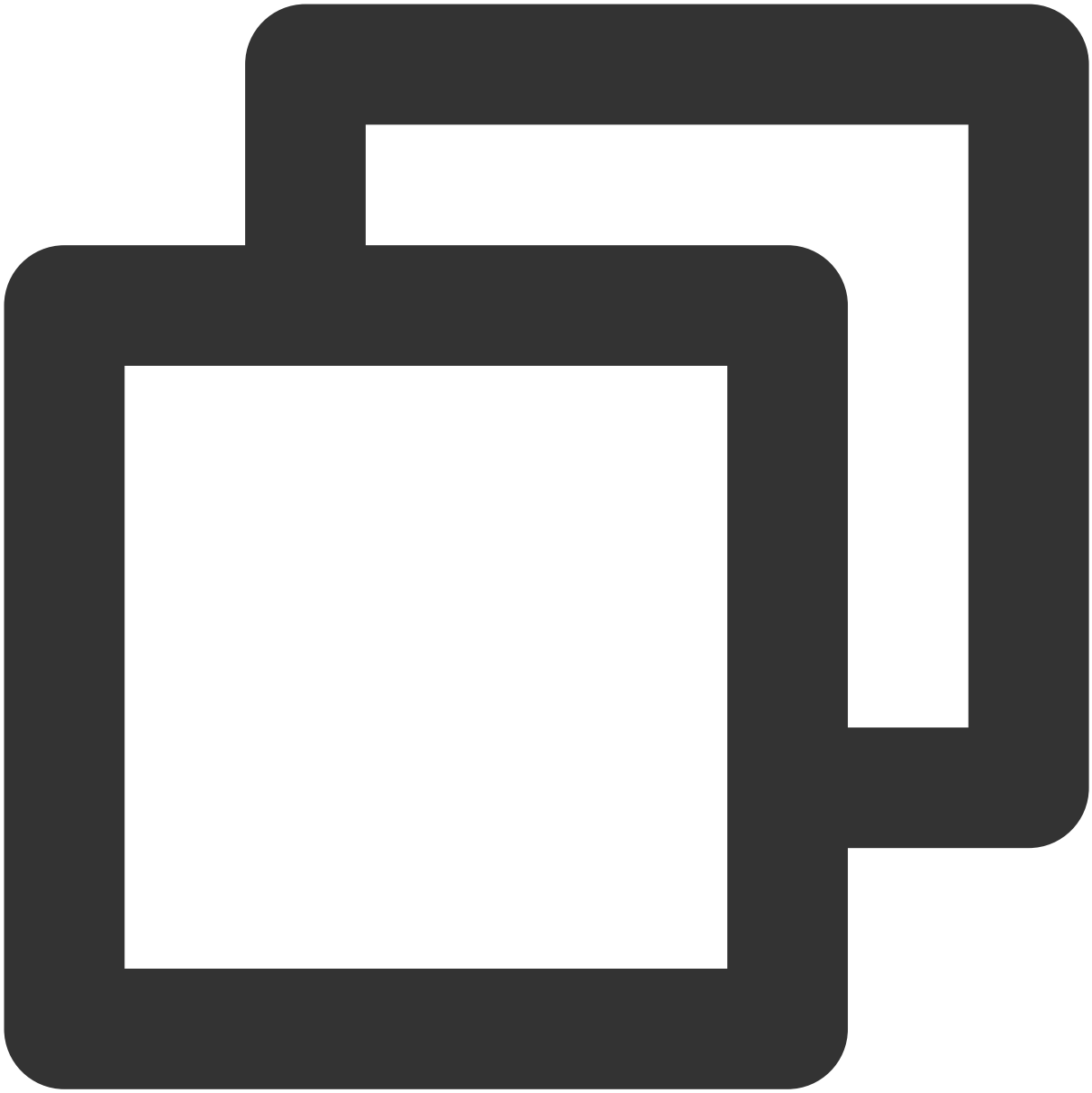

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

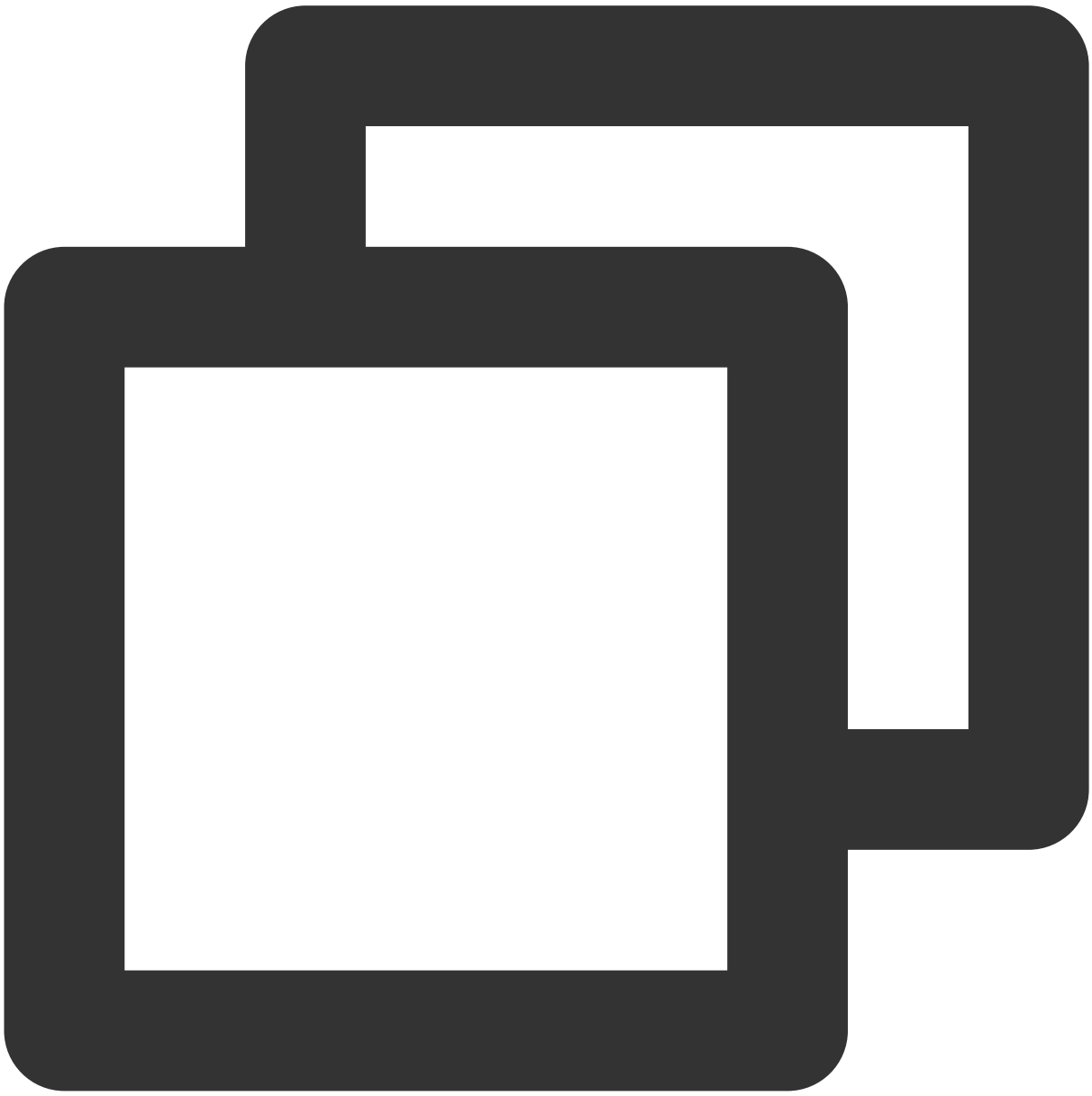
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>VideoProcess</Tag>
    <Name>TemplateName</Name>
    <ColorEnhance>
        <Enable>true</Enable>
        <Contrast></Contrast>
        <Correction></Correction>
        <Saturation></Saturation>
    </ColorEnhance>
    <MsSharpen>
        <Enable>true</Enable>
        <SharpenLevel></SharpenLevel>
    </MsSharpen>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the video enhancement template creation API.	Container	Yes

Response

Response headers

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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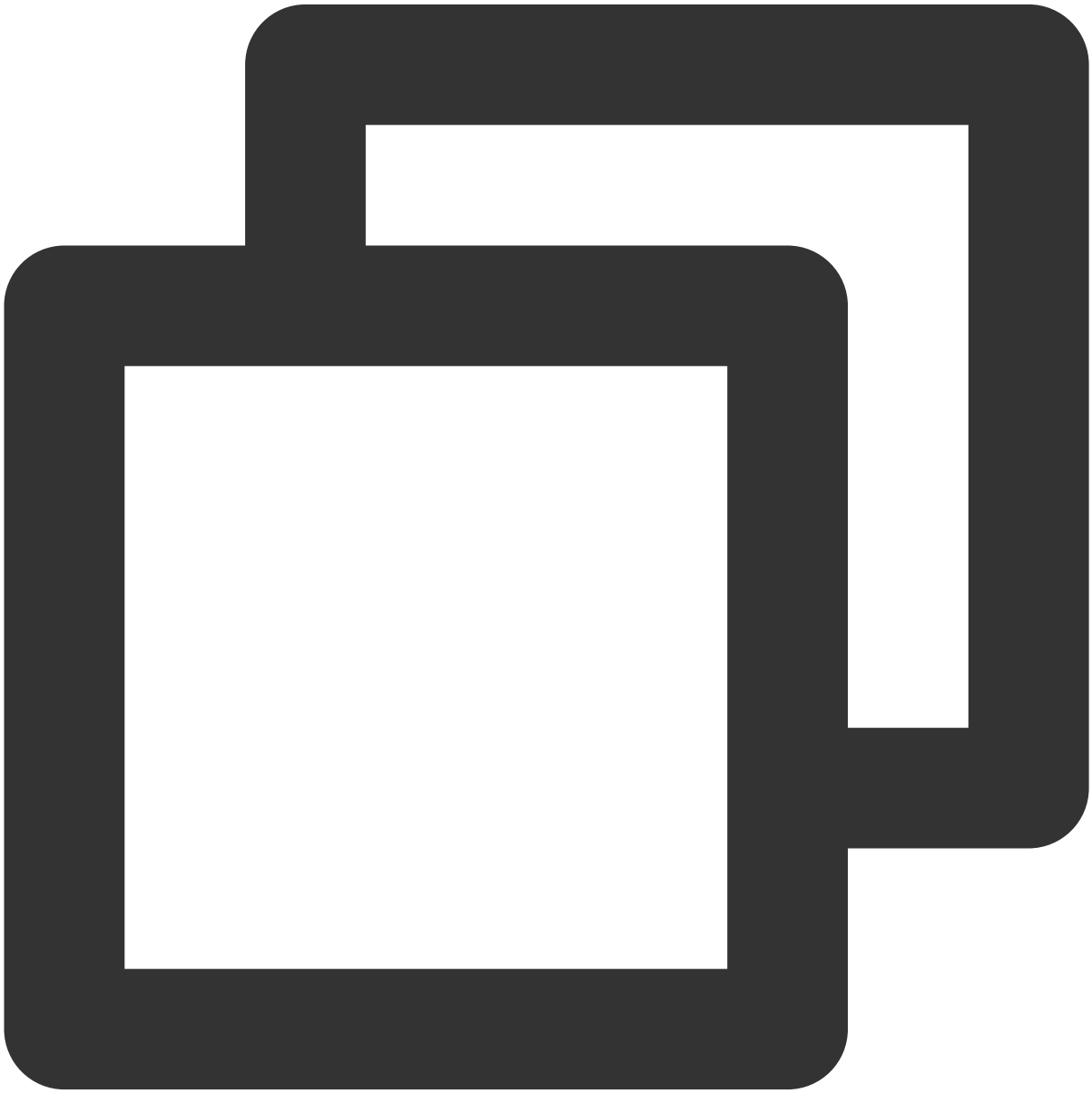

```
<Response>
    <Template>
        <Tag>VideoProcess</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <VideoProcess>
            <ColorEnhance>
                <Enable>true</Enable>
                <Contrast></Contrast>
                <Correction></Correction>
                <Saturation></Saturation>
```

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```
            </ColorEnhance>
            <MsSharpen>
                <Enable>true</Enable>
                <SharpenLevel></SharpenLevel>
            </MsSharpen>
        </VideoProcess>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the video enhancement template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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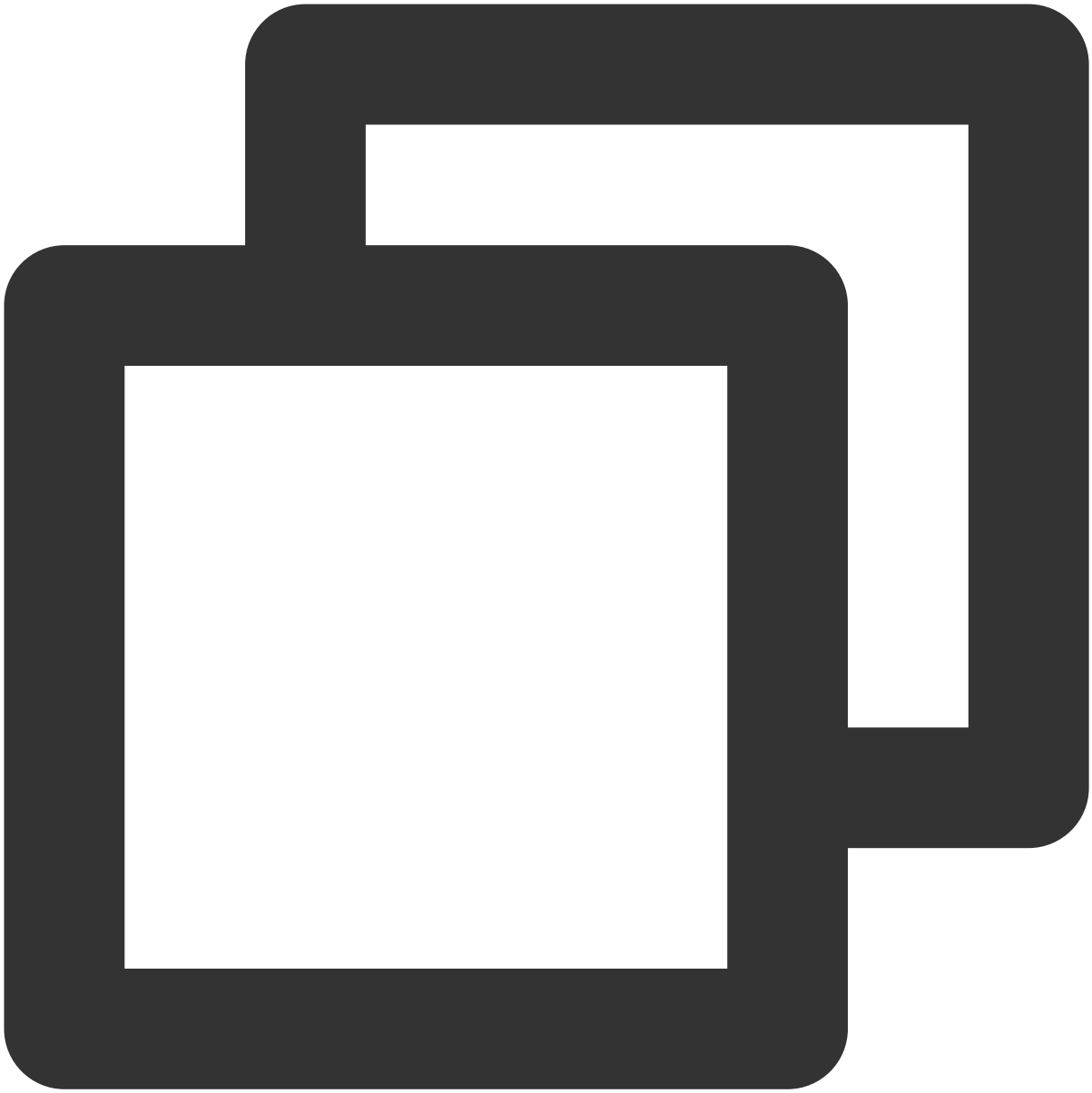

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>VideoProcess</Tag>
    <Name>TemplateName</Name>
    <ColorEnhance>
        <Enable>true</Enable>
```

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```
        <Contrast></Contrast>
        <Correction></Correction>
        <Saturation></Saturation>
    </ColorEnhance>
    <MsSharpen>
        <Enable>true</Enable>
        <SharpenLevel></SharpenLevel>
    </MsSharpen>
</Request>
```

Response

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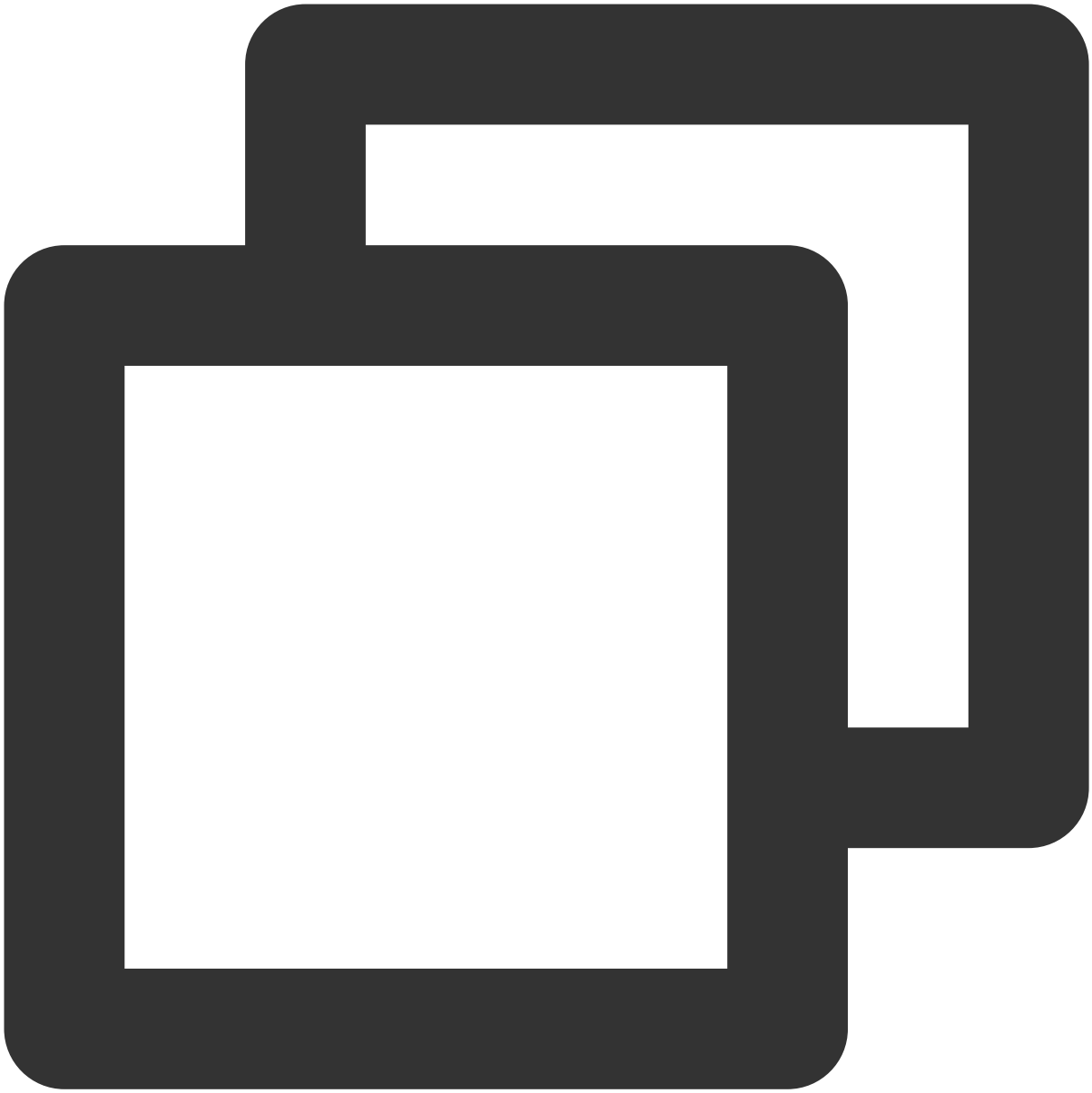

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>VideoProcess</Tag>
```

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```
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <VideoProcess>
            <ColorEnhance>
                <Enable>true</Enable>
                <Contrast></Contrast>
                <Correction></Correction>
                <Saturation></Saturation>
            </ColorEnhance>
            <MsSharpen>
                <Enable>true</Enable>
                <SharpenLevel></SharpenLevel>
            </MsSharpen>
        </VideoProcess>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Voice/Sound Separation Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a voice/sound separation template.

Request

Sample request

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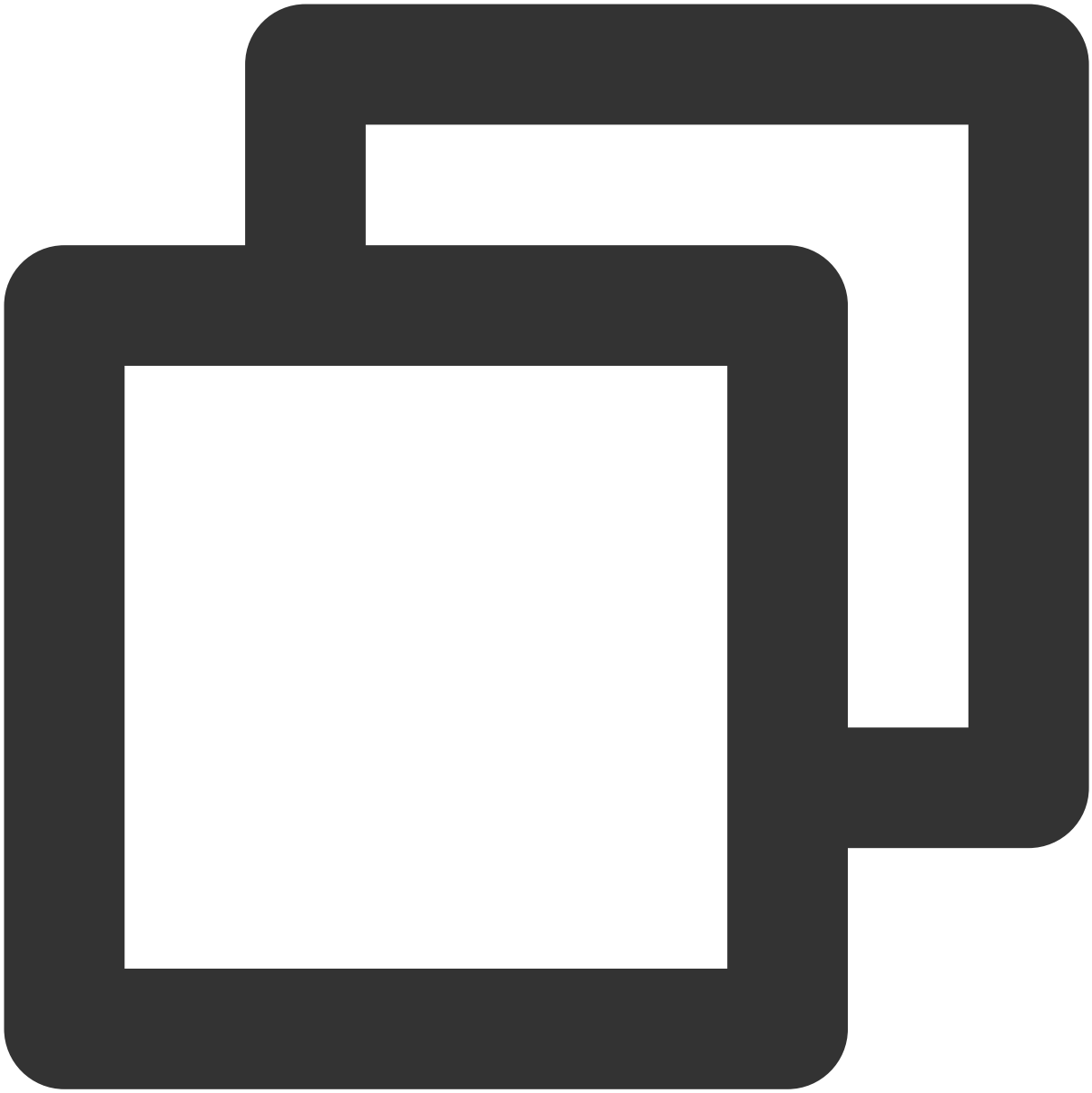

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

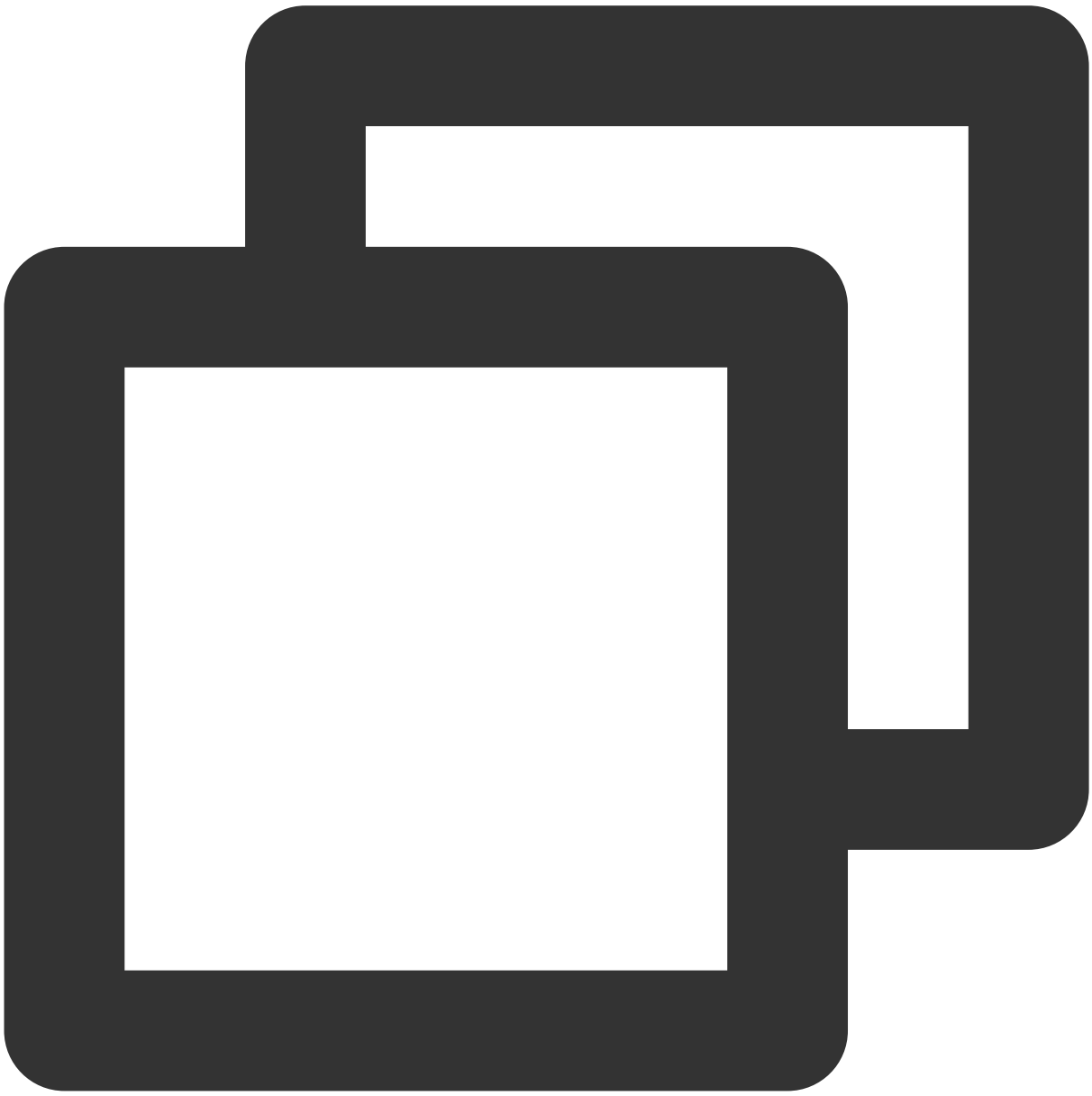
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>VoiceSeparate</Tag>
    <Name>TemplateName</Name>
    <AudioMode>IsAudio</AudioMode>
    <AudioConfig>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>2</Channels>
    </AudioConfig>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the voice/sound separation template creation API.	Container	Yes

Response

Response headers

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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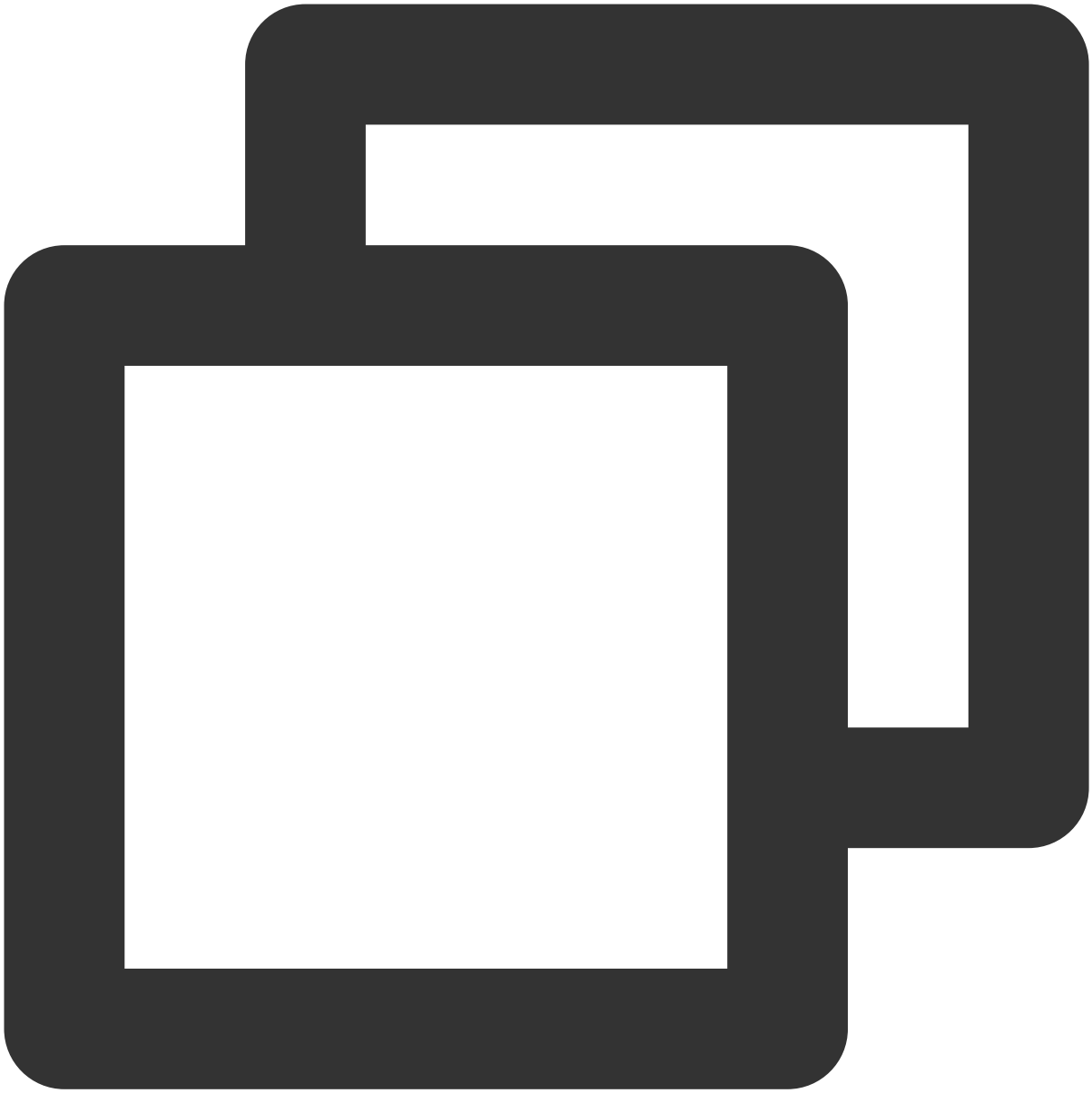

```
<Response>
    <Template>
        <Tag>VoiceSeparate</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <VoiceSeparate>
            <AudioMode>IsAudio</AudioMode>
            <AudioConfig>
                <Codec>mp3</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>12</Bitrate>
```

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```
                <Channels>2</Channels>
            </AudioConfig>
        </VoiceSeparate>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the voice/sound separation template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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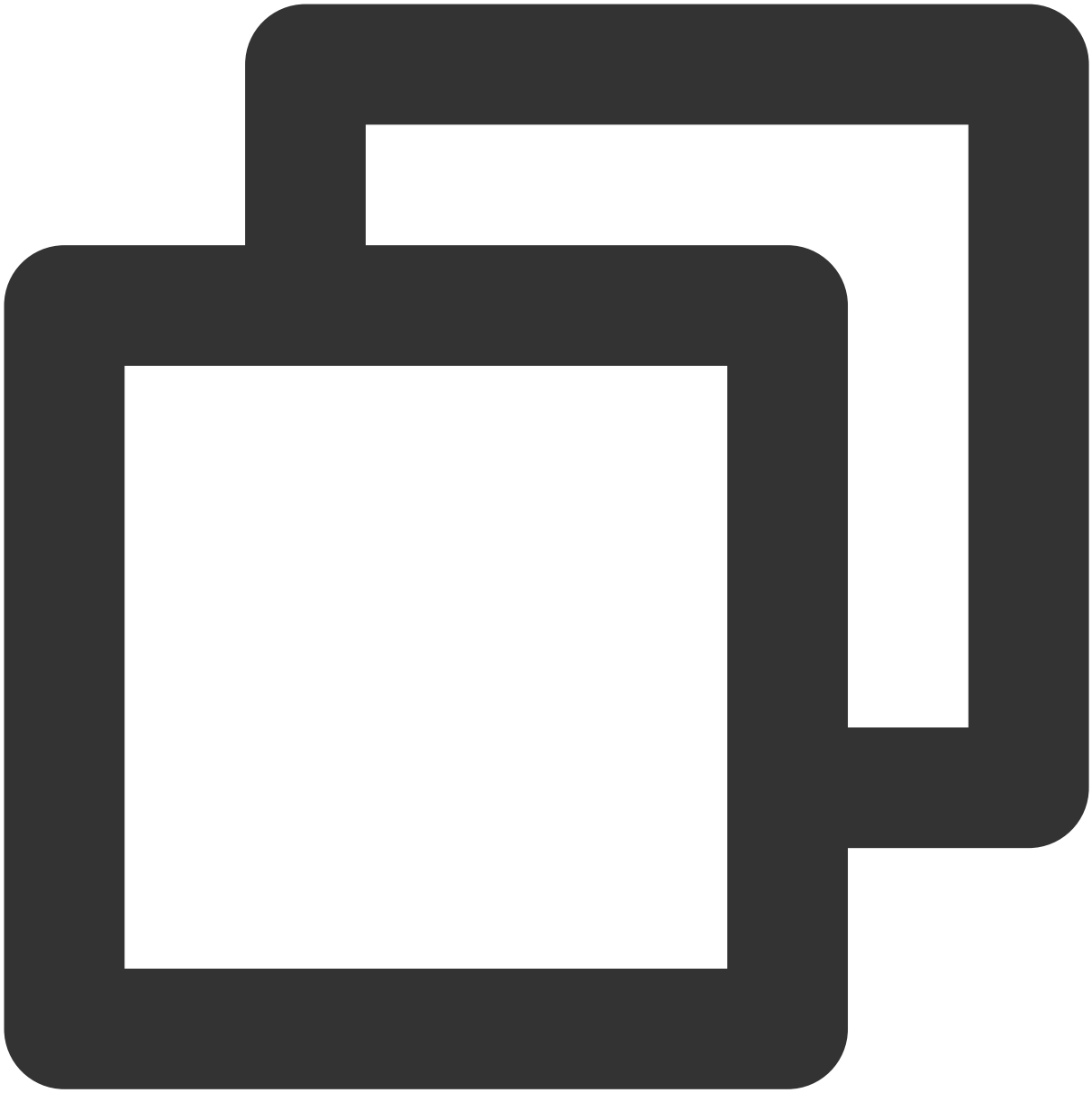

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>VoiceSeparate</Tag>
    <Name>TemplateName</Name>
    <AudioMode>IsAudio</AudioMode>
    <AudioConfig>
```

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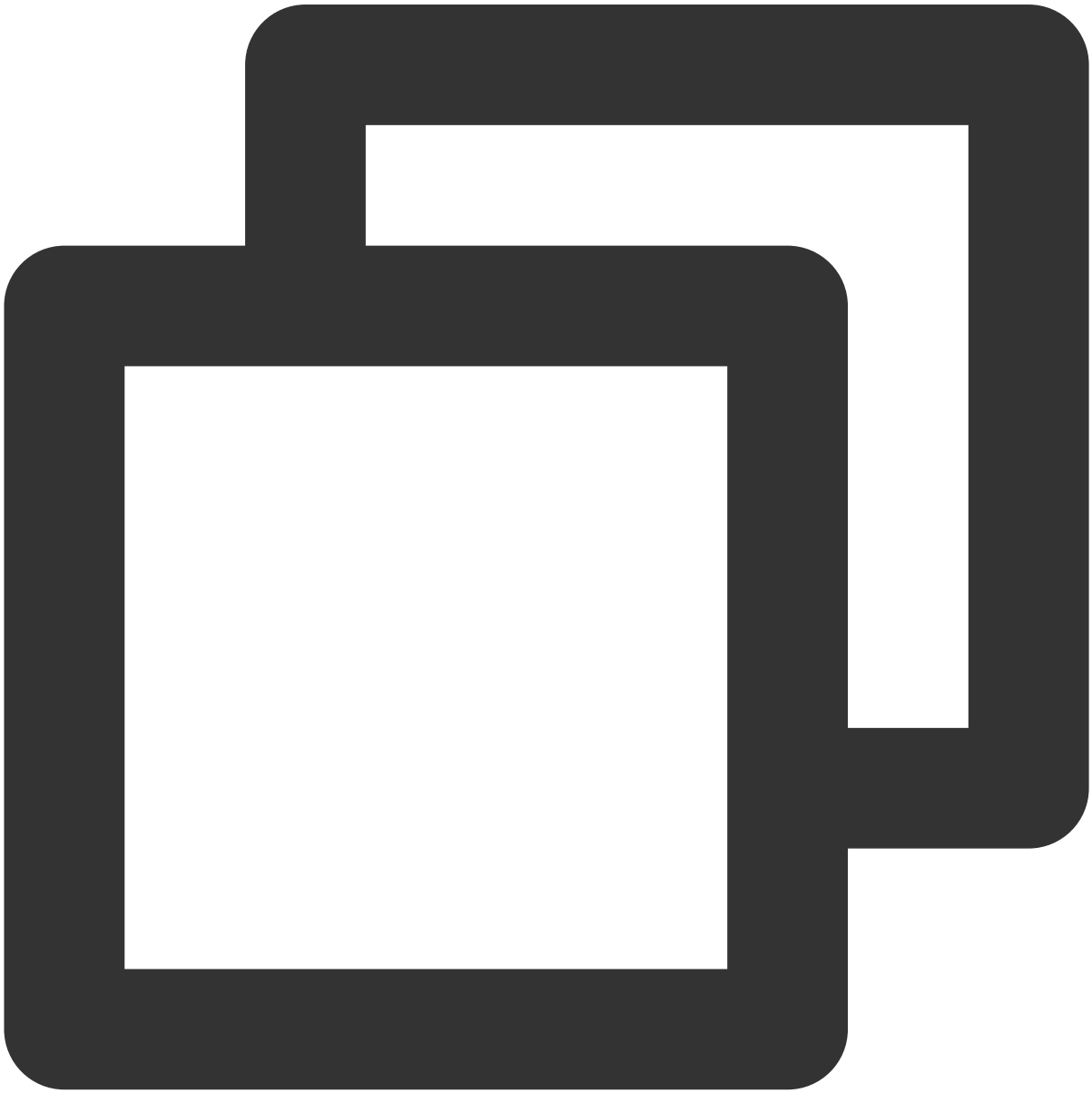
```
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Bitrate>128</Bitrate>
        <Channels>4</Channels>
    </AudioConfig>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <Tag>VoiceSeparate</Tag>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <VoiceSeparate>
            <AudioMode>IsAudio</AudioMode>
            <AudioConfig>
                <Codec>mp3</Codec>
                <Samplerate>44100</Samplerate>
                <Bitrate>12</Bitrate>
                <Channels>2</Channels>
            </AudioConfig>
        </VoiceSeparate>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Watermark Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a watermark template.

Request

Sample request

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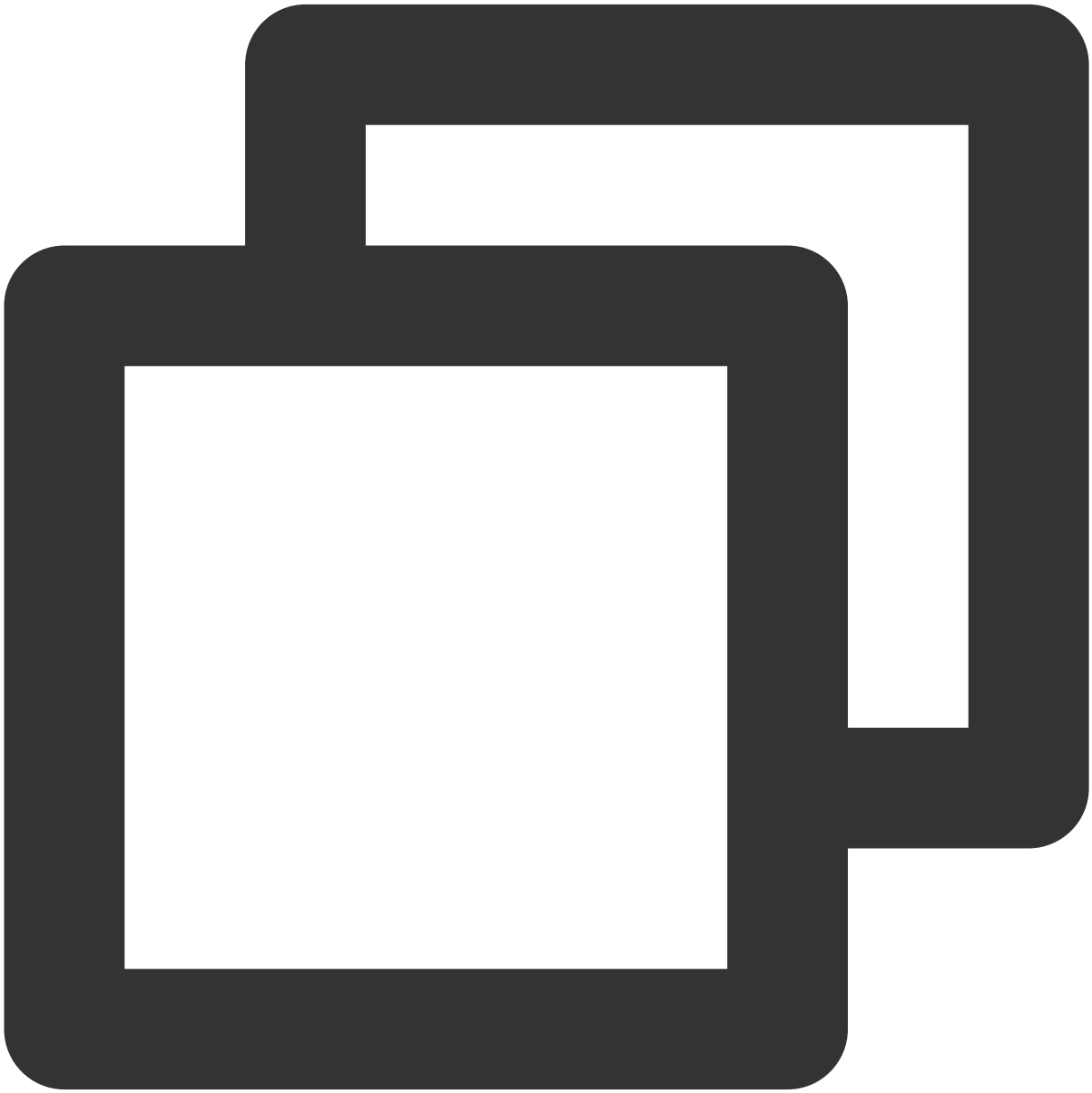

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

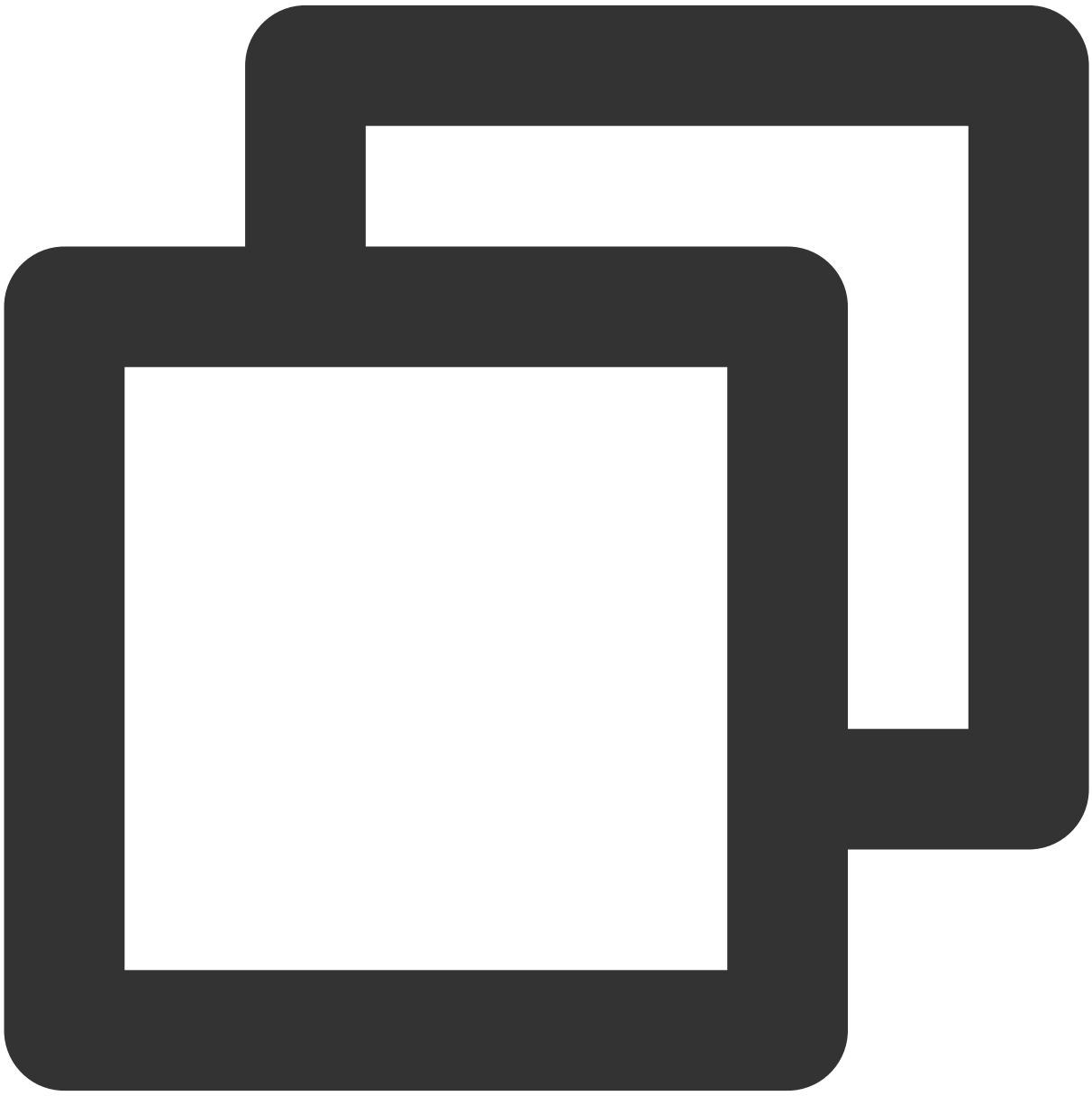
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>Watermark</Tag>
    <Name>TemplateName</Name>
    <Watermark>
        <Type>Text</Type>
        <LocMode>Absolute</LocMode>
        <Dx>128</Dx>
        <Dy>128</Dy>
        <Pos>TopRight</Pos>
        <StartTime>0</StartTime>
        <EndTime>100.5</EndTime>
        <Text>
            <Text>Watermark content</Text>
            <FontSize>30</FontSize>
            <FontType></FontType>
            <FontColor>0xRRGGBB</FontColor>
            <Transparency>30</Transparency>
        </Text>
    </Watermark>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the watermark template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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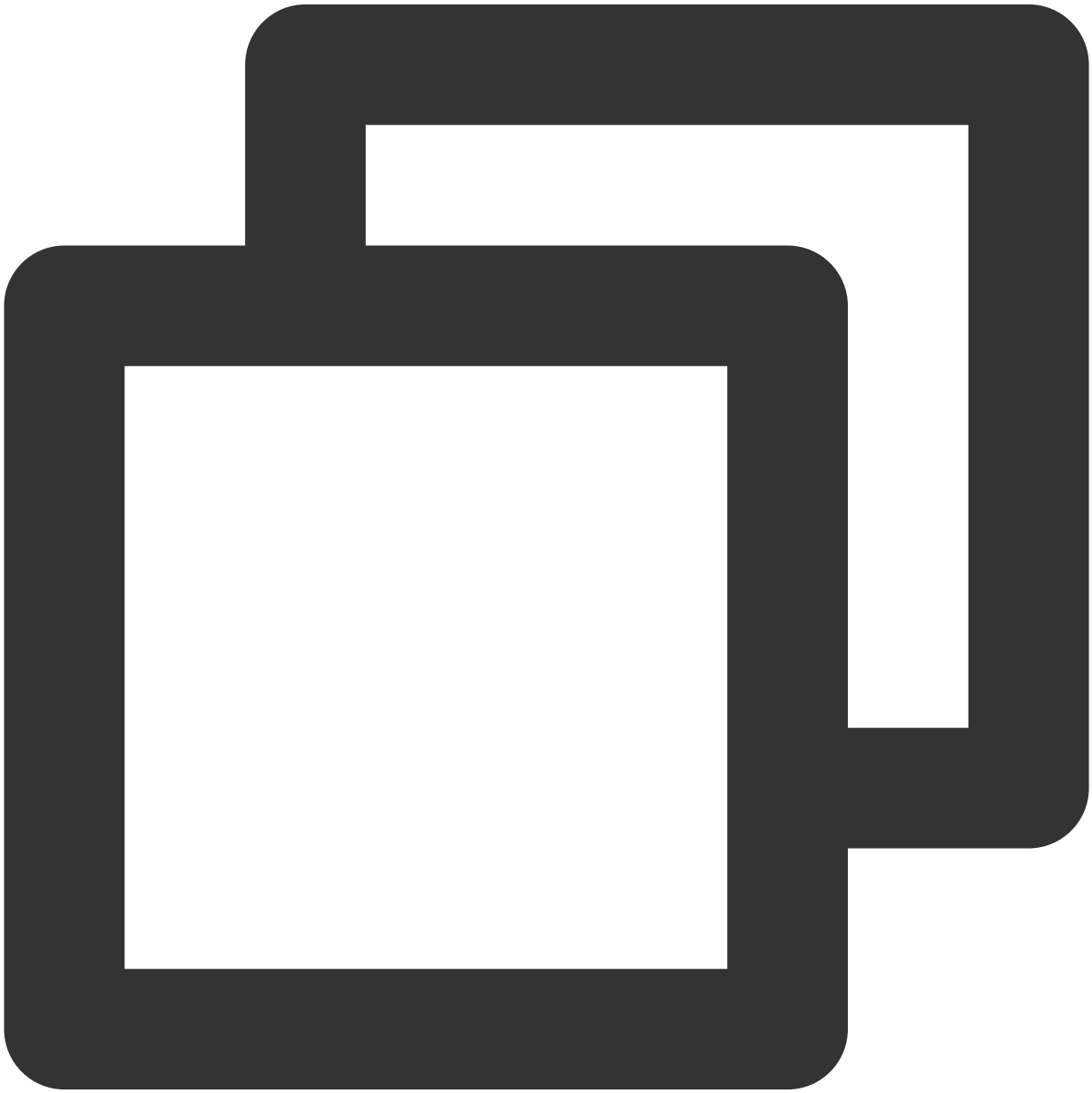

```
<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Tag>Watermark</Tag>
        <Name>TemplateName</Name>
        <Watermark>
            <Type>Text</Type>
            <LocMode>Absolute</LocMode>
            <Dx>128</Dx>
            <Dy>128</Dy>
            <Pos>TopRight</Pos>
```

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```
            <StartTime>0</StartTime>
            <EndTime>100.5</EndTime>
            <Text>
                <Text>Watermark content</Text>
                <FontSize>30</FontSize>
                <FontType></FontType>
                <FontColor>0xRRGGBB</FontColor>
                <Transparency>30</Transparency>
            </Text>
        </Watermark>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the watermark template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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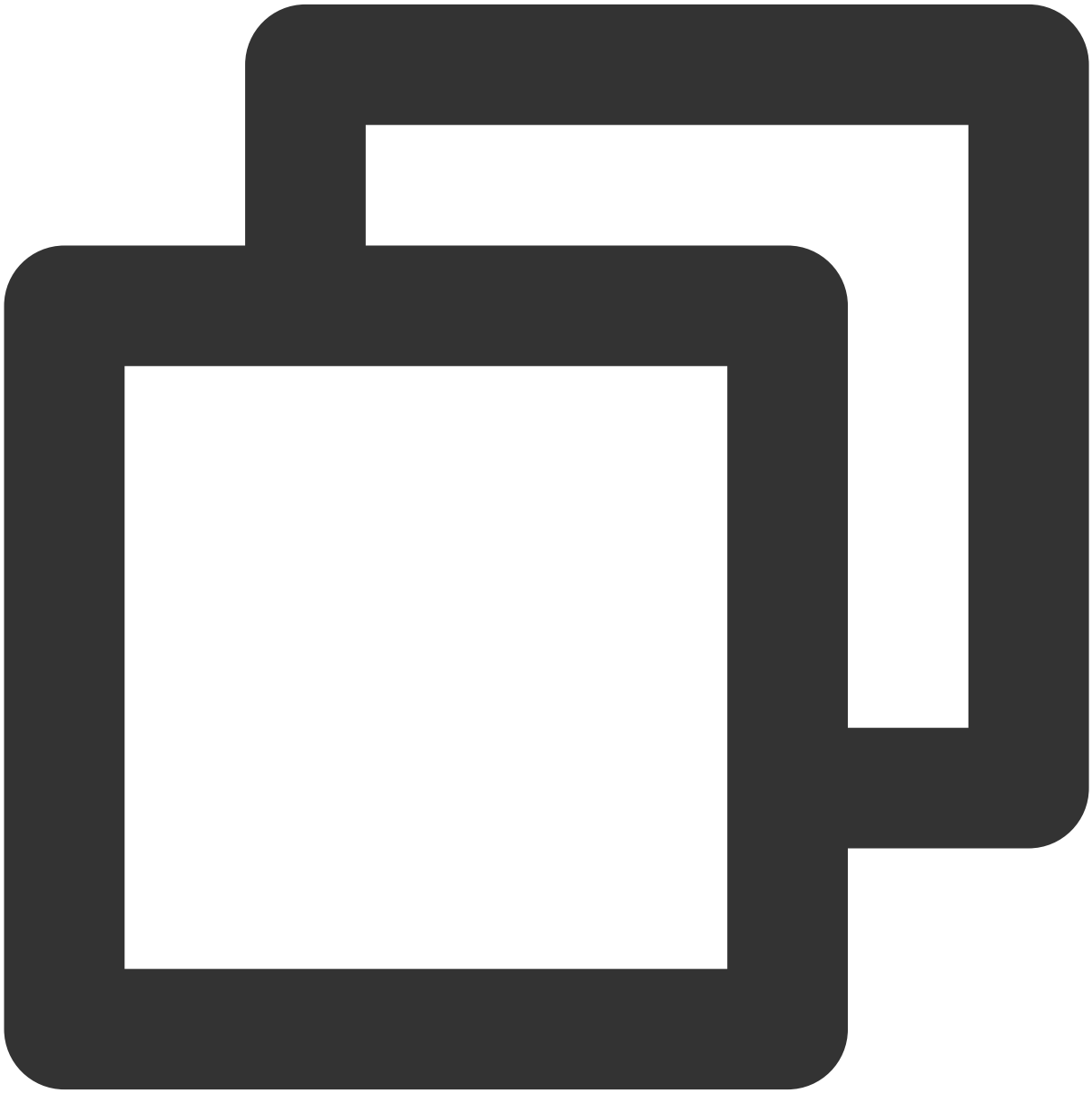

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>Watermark</Tag>
    <Name>TemplateName</Name>
    <Watermark>
        <Type>Text</Type>
```

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```
        <LocMode>Absolute</LocMode>
        <Dx>128</Dx>
        <Dy>128</Dy>
        <Pos>TopRight</Pos>
        <StartTime>0</StartTime>
        <EndTime>100.5</EndTime>
        <Text>
            <Text>Watermark content</Text>
            <FontSize>30</FontSize>
            <FontType></FontType>
            <FontColor>0xRRGGBB</FontColor>
            <Transparency>30</Transparency>
        </Text>
    </Watermark>
</Request>
```

Response

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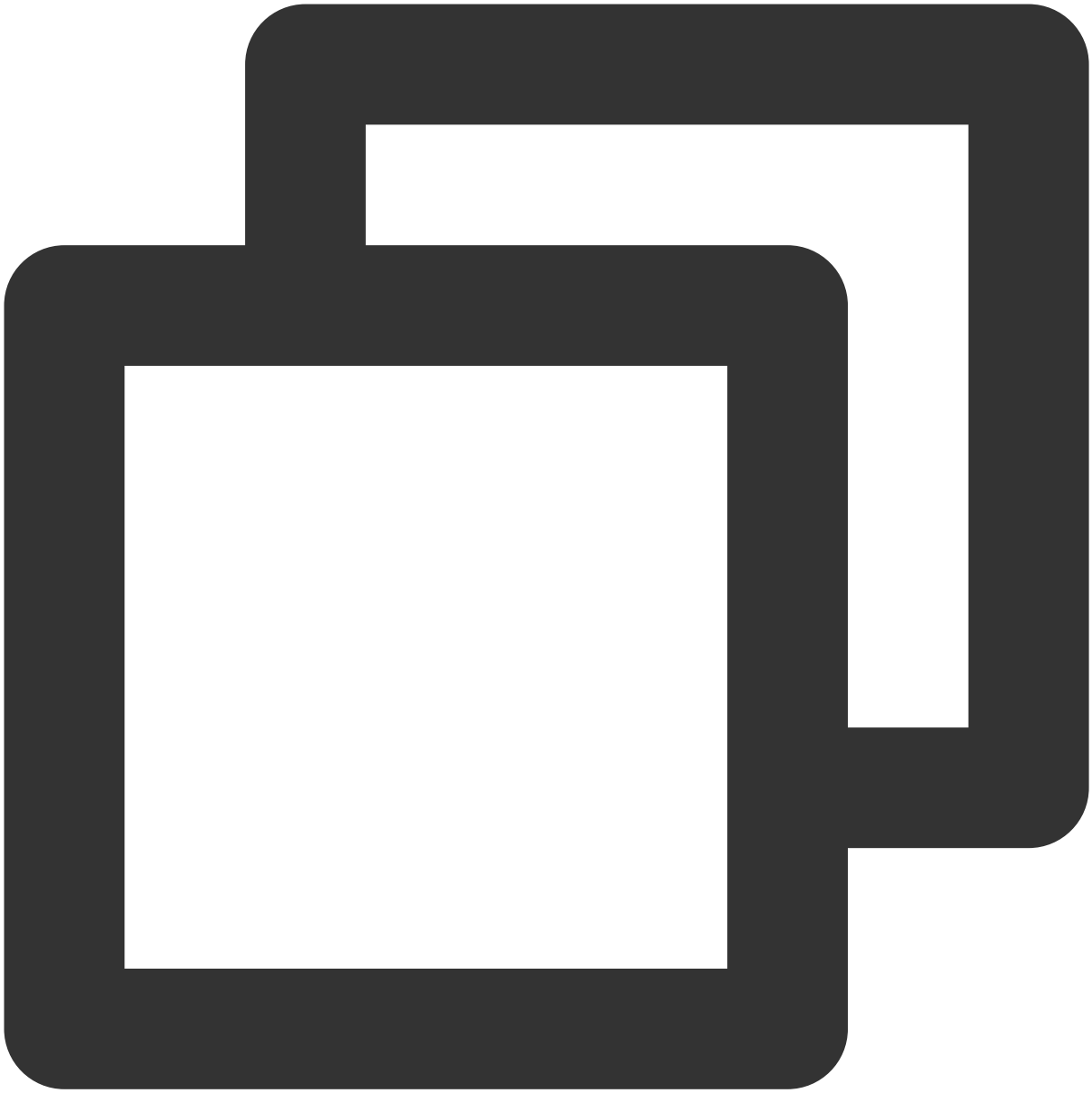

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
        <Tag>Watermark</Tag>
        <Name>TemplateName</Name>
        <Watermark>
            <Type>Text</Type>
            <LocMode>Absolute</LocMode>
            <Dx>128</Dx>
            <Dy>128</Dy>
            <Pos>TopRight</Pos>
            <StartTime>0</StartTime>
            <EndTime>100.5</EndTime>
            <Text>
                <Text>Watermark content</Text>
                <FontSize>30</FontSize>
                <FontType></FontType>
                <FontColor>0xRRGGBB</FontColor>
                <Transparency>30</Transparency>
            </Text>
        </Watermark>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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Updating Intelligent Thumbnail Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update an intelligent thumbnail template.

Request

Sample request

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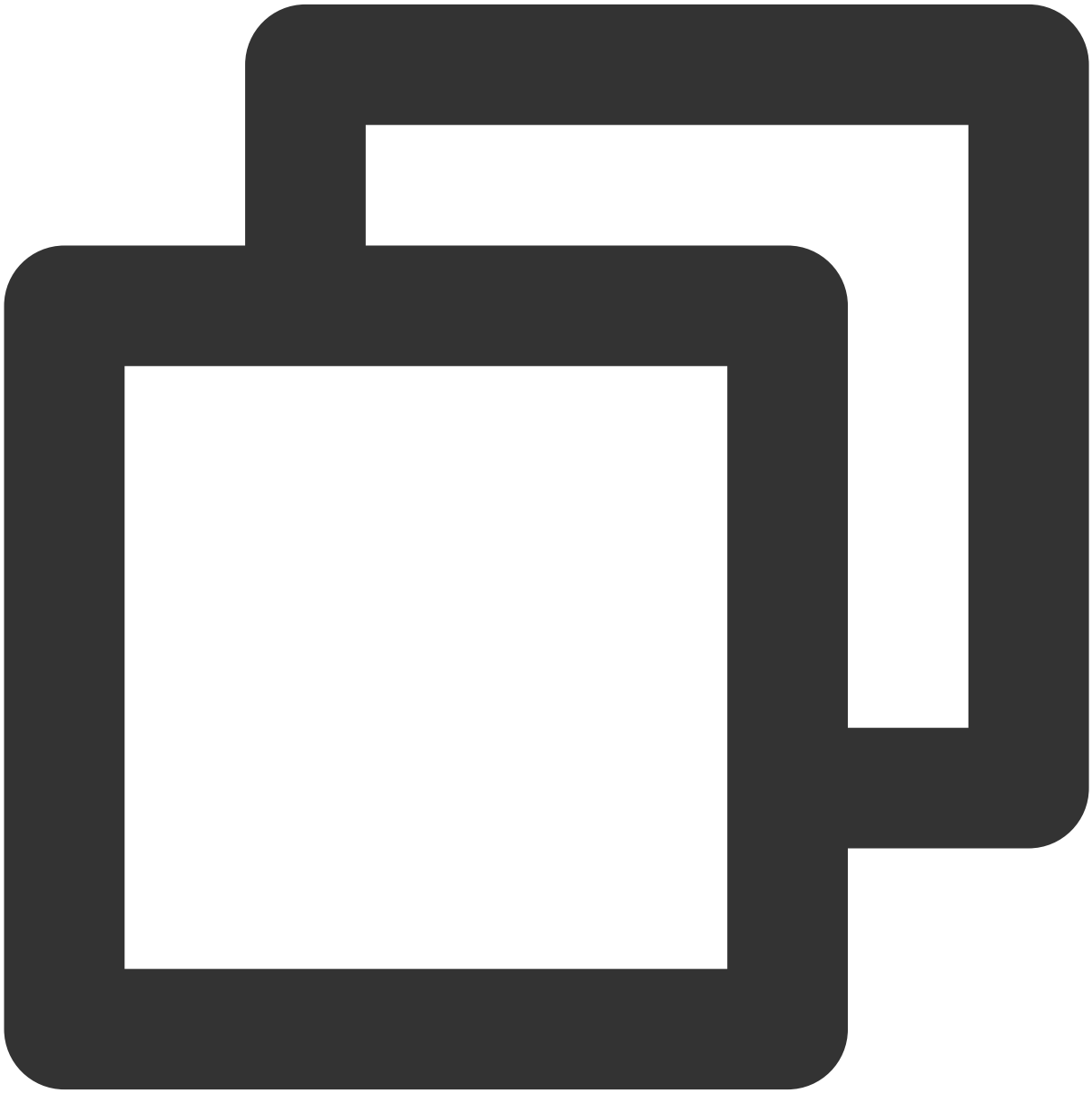

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

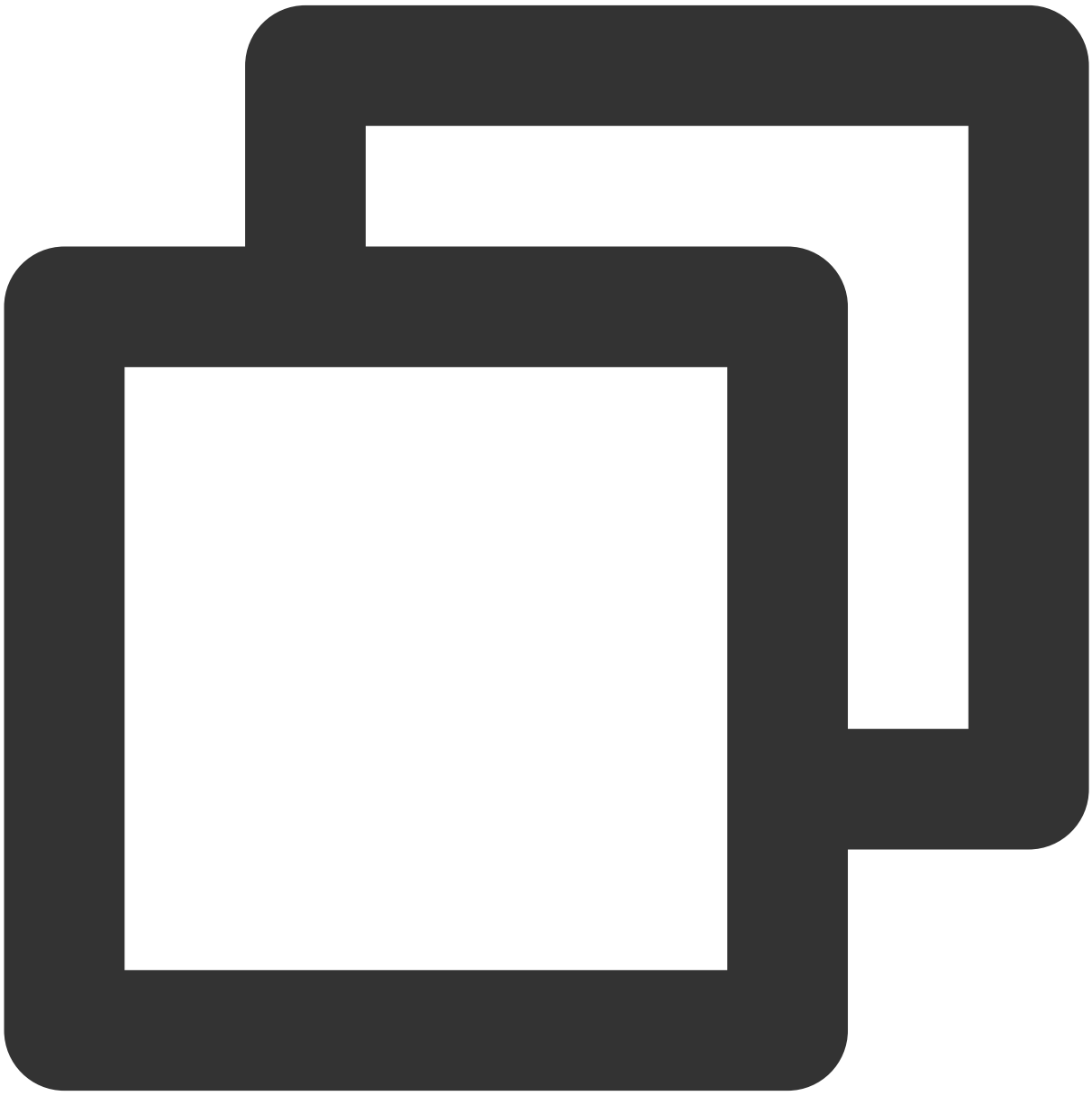
When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Tag>SmartCover</Tag>
    <Name>TemplateName</Name>
    <SmartCover>
        <Format>jpg</Format>
        <Width>1280</Width>
        <Height>960</Height>
        <Count>10</Count>
        <DeleteDuplicates>true</DeleteDuplicates>
    </SmartCover>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as Request in the intelligent thumbnail template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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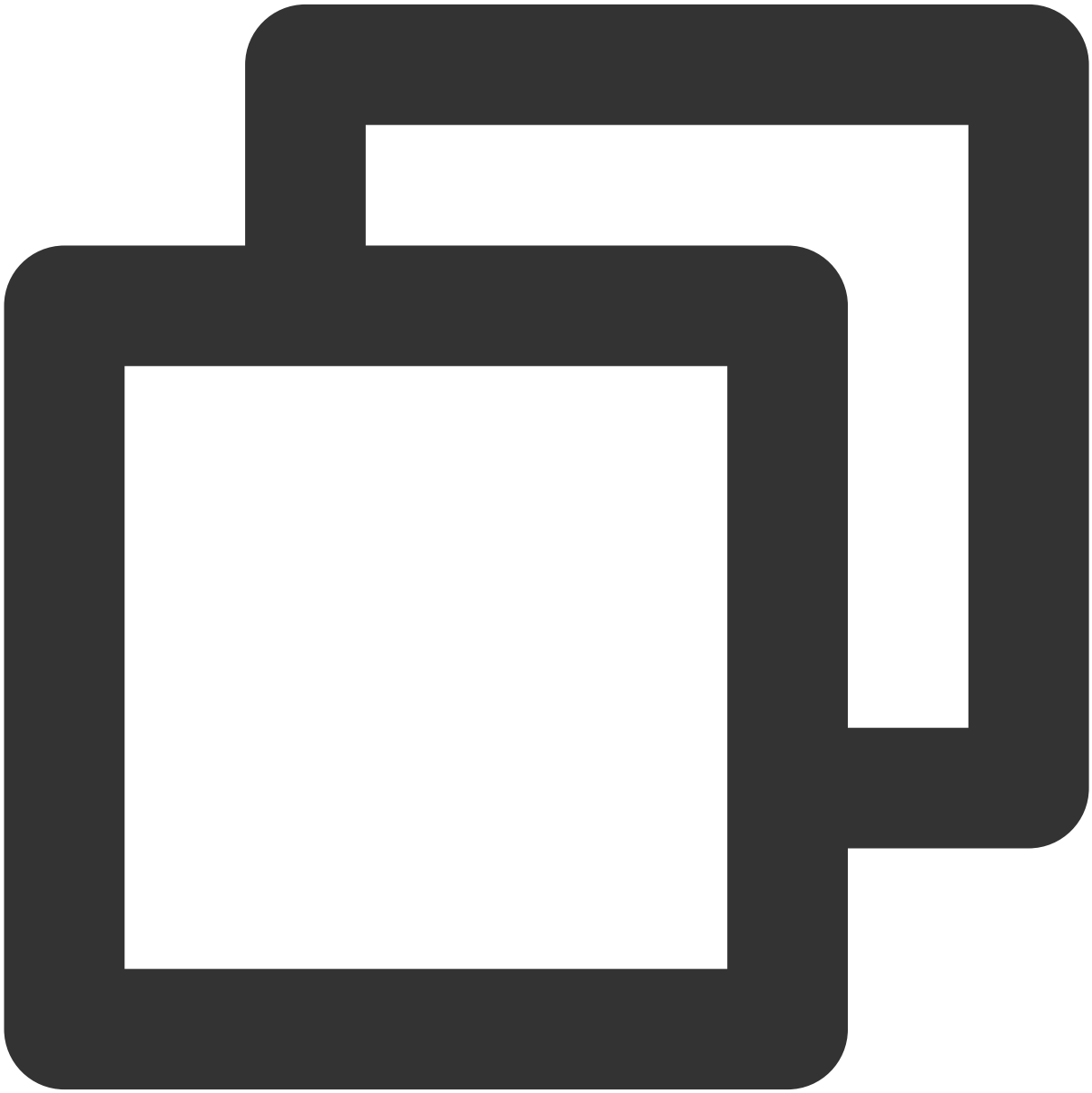

```
<Response>
    <Template>
        <Tag>SmartCover</Tag>
        <Name>TemplateName</Name>
        <TemplateId>t1f43110a08702470b8fa75894629501fa</TemplateId>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SmartCover>
            <Width>1280</Width>
            <Height>960</Height>
            <Format>jpg</Format>
```

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```
            <Count>5</Count>
            <DeleteDuplicates>false</DeleteDuplicates>
        </SmartCover>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as Response in the intelligent thumbnail template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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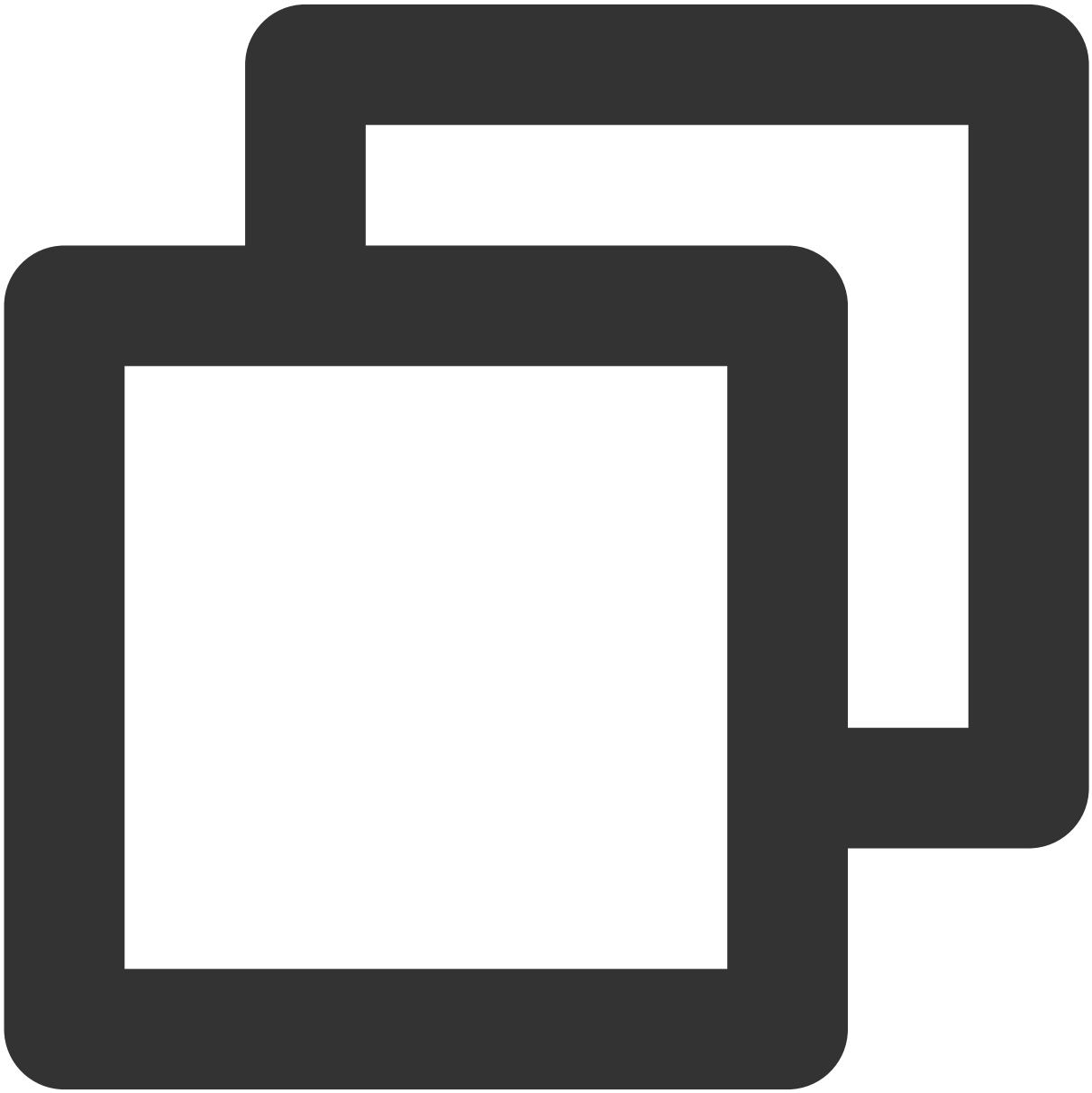

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>SmartCover</Tag>
    <Name>TemplateName</Name>
    <SmartCover>
        <Format>jpg</Format>
```

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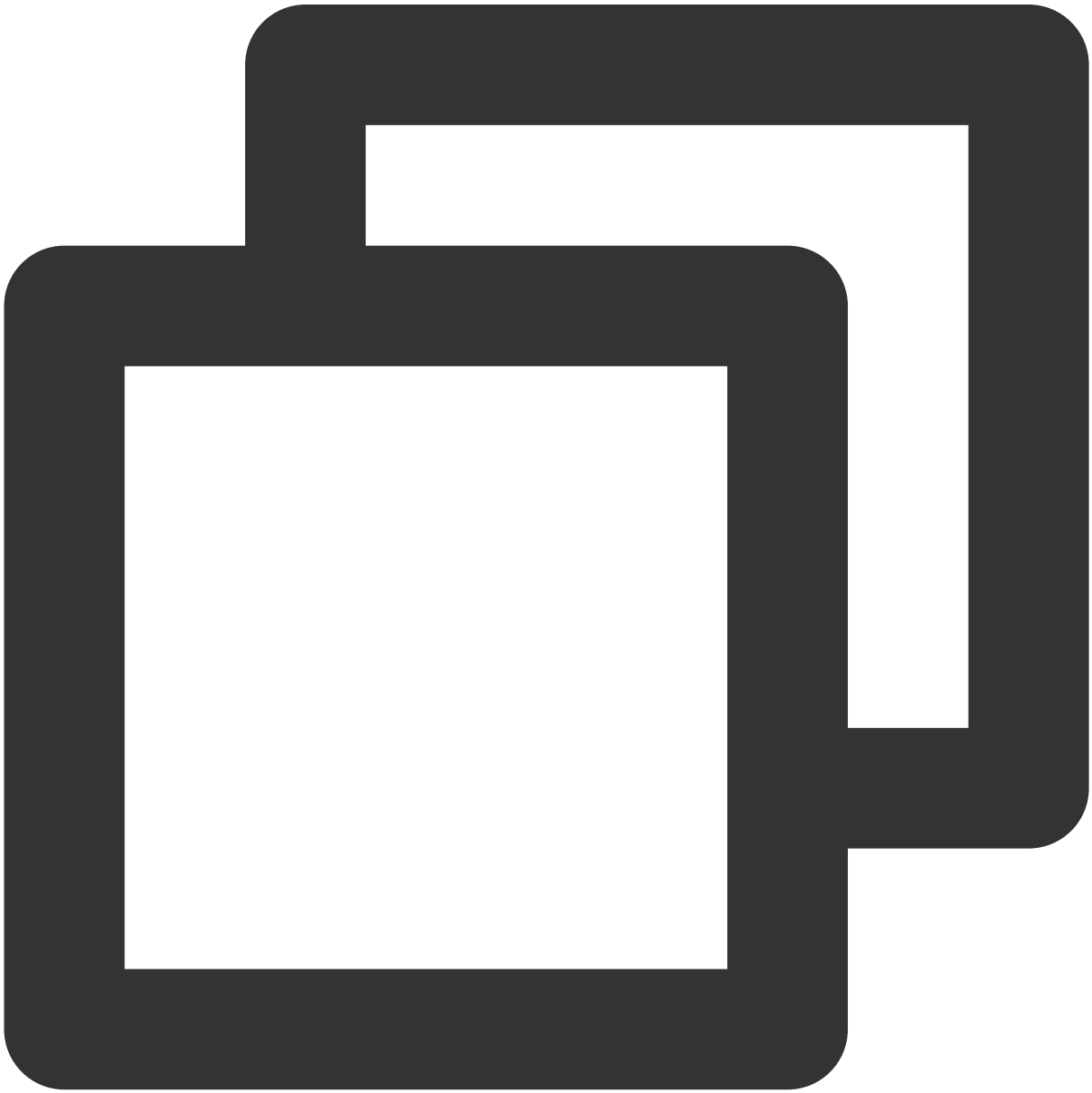
```
        <Width>1280</Width>
        <Height>960</Height>
        <Count>10</Count>
        <DeleteDuplicates>true</DeleteDuplicates>
    </SmartCover>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****



<Response>
    <Template>
        <Tag>SmartCover</Tag>
        <Name>TemplateName</Name>
        <TemplateId>t1f43110a08702470b8fa75894629501fa</TemplateId>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SmartCover>
            <Width>1280</Width>
            <Height>960</Height>
            <Format>jpg</Format>
            <Count>5</Count>
            <DeleteDuplicates>false</DeleteDuplicates>
        </SmartCover>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </Template>
</Response>
```

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AI-Based Content Recognition
Creating AI-Based Content Recognition Template
Creating Automatic Speech Recognition Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to create a speech recognition template.

Request

Sample request

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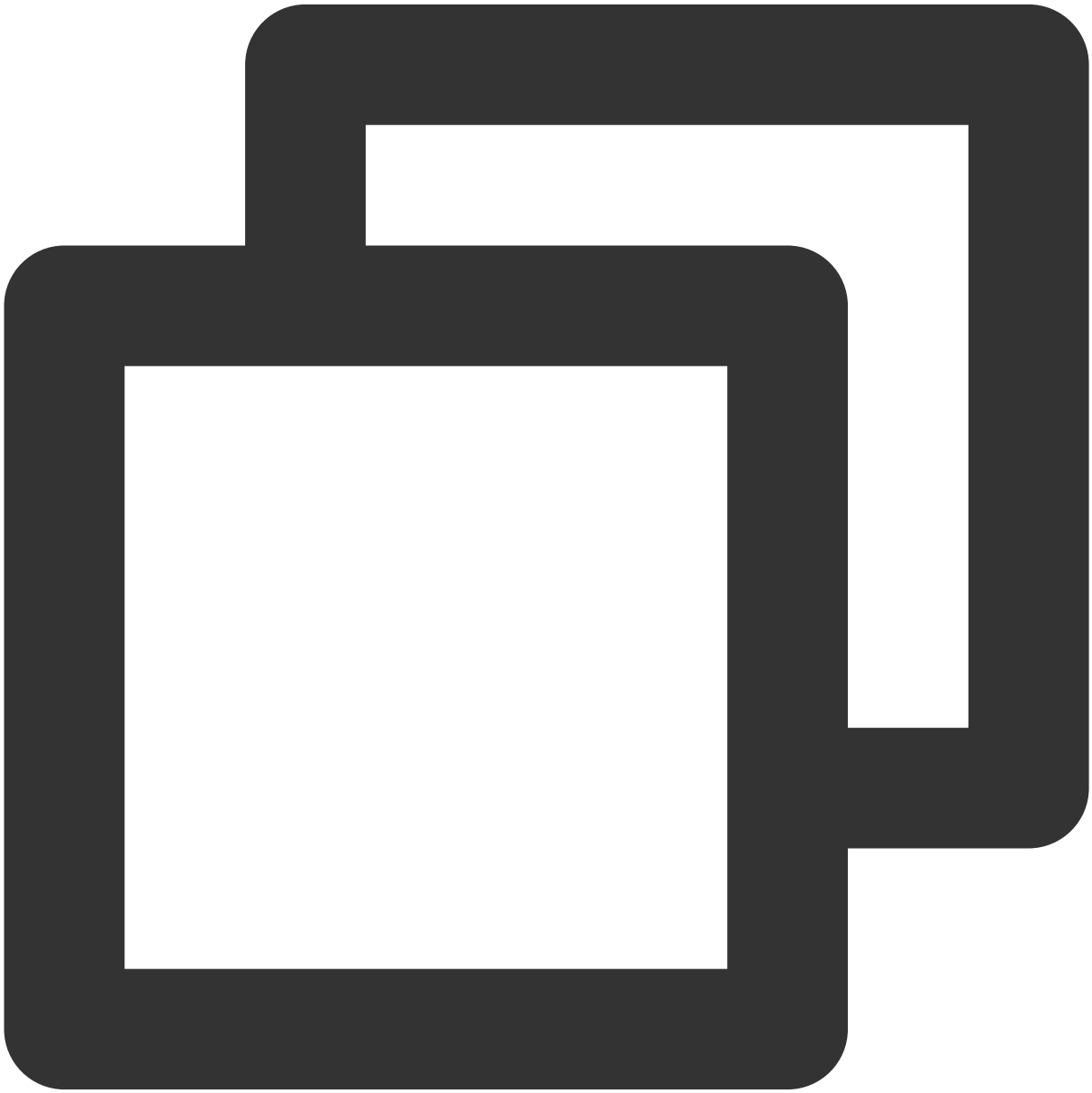

```
POST /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

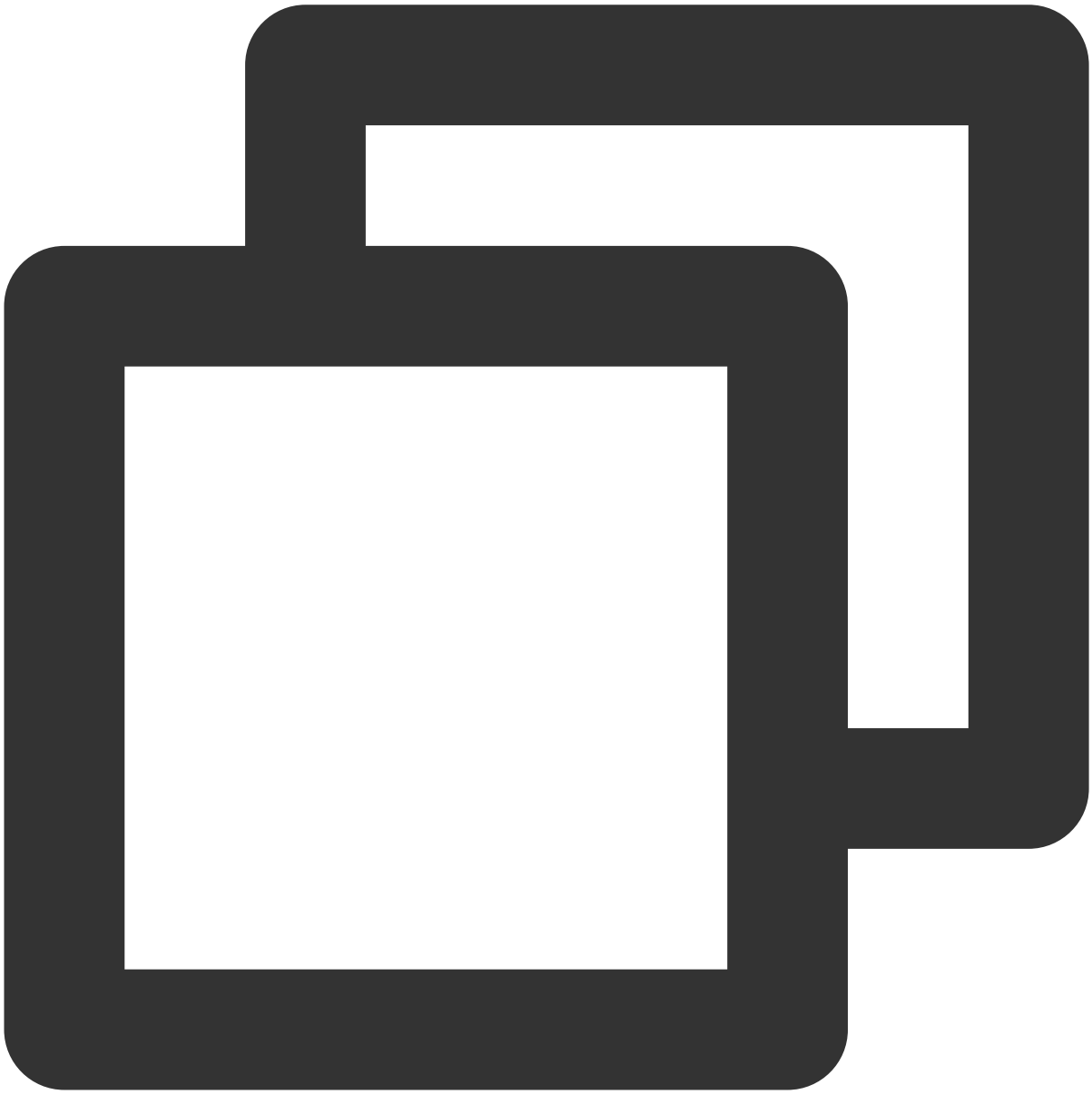
When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
```

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```
    <Tag>SpeechRecognition</Tag>
    <Name>TemplateName</Name>
    <SpeechRecognition>
        <EngineModelType>16k_zh</EngineModelType>
        <ResTextFormat>1</ResTextFormat>
        <FilterDirty>0</FilterDirty>
        <FilterModal>1</FilterModal>
        <ConvertNumMode>0</ConvertNumMode>
        <SpeakerDiarization>1</SpeakerDiarization>
        <SpeakerNumber>0</SpeakerNumber>
        <FilterPunc>0</FilterPunc>
        <OutputFileType>txt</OutputFileType>
    </SpeechRecognition>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container.	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Tag	Request	Template tag: SpeechRecognition.	String	Yes	No
Name	Request	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes	None
SpeechRecognition	Request	Speech recognition parameter.	Container	Yes	None

`SpeechRecognition` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
EngineModelType	Request.Speech	Engine model type, divided into phone	String	Yes

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	Recognition	call and non-phone call scenarios. Phone call scenarios: 8k_zh: 8 kHz, for Mandarin in general scenarios (available for dual-channel audio). 8k_zh_s: 8 kHz, for Mandarin with speaker separation (available for mono-channel audio only). 8k_en: 8 kHz, for English. Non-phone call scenarios: 16k_zh: 16 kHz, for Mandarin in general scenarios. 16k_zh_video: 16 kHz, for audio/video scenarios. 16k_en: 16 kHz, for English. 16k_ca: 16 kHz, for Cantonese. 16k_ja: 16 kHz, for Japanese. 16k_zh_edu: For Mandarin in education scenarios. 16k_en_edu: For English in education scenarios. 16k_zh_medical: For healthcare scenarios. 16k_th: For Thai. 16k_zh_dialect: Multi-dialect, for up to 23 dialects.		
ChannelNum	Request.SpeechRecognition	Number of sound channels: 1: Mono. If `EngineModelType` is not the phone call scenario, only mono channel is supported. 2: Dual (for the 8k_zh engine only, where the two channels correspond to the caller and callee respectively).	Integer	Yes
ResTextFormat	Request.SpeechRecognition	Format of the returned recognition result. 0: Recognition result text, including the list of segment timestamps. 1: Detailed word-level recognition result, excluding punctuation marks but including the speech speed value (the list of word timestamps, generally used to generate subtitles). 2: Detailed word-level recognition result, including punctuation marks and the	Integer	Yes

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		speech speed value.		
FilterDirty	Request.SpeechRecognition	Whether to filter restricted words (for the Mandarin engine only). 0: Does not filter. 1: Filters. 2: Replaces restricted words with `*`. Default value: `0`.	Integer	No
FilterModal	Request.SpeechRecognition	Whether to filter modal particles (for the Mandarin engine only). 0: Does not filter. 1: Filters partially. 2: Filters strictly. Default value: `0`.	Integer	No
ConvertNumMode	Request.SpeechRecognition	Whether to intelligently convert Chinese numbers to Arabic numerals (for the Mandarin engine only): 0: Directly outputs Chinese numbers. 1: Intelligently converts based on the scenario. 3: Enables mathematic number conversion. Default value: `0`.	Integer	No
SpeakerDiarization	Request.SpeechRecognition	Whether to enable speaker separation: 0: No. 1: Yes (for mono-channel audios with the 8k_zh, 16k_zh, or 16k_zh_video engine only). Default value: `0`. Note: In the 8 kHz phone call scenario, we recommend you use dual channels to distinguish between the caller and callee by setting `ChannelNum=2`, so you don't need to enable speaker separation.	Integer	No
SpeakerNumber	Request.SpeechRecognition	Number of speakers to be separated (with speaker separation enabled). Value range: 0–10. 0: Automatic separation (currently only for six or fewer people only). 1–10: Specified number of speakers to be separated. Default value: `0`.	Integer	No

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FilterPunc	Request.SpeechRecognition	Whether to filter punctuation marks (currently for the Mandarin engine only): 0: Does not filter. 1: Filters the punctuation mark at the end of the sentence. 2: Filters all punctuation marks. Default value: `0` .	Integer	No
OutputFileType	Request.SpeechRecognition	Output file type. Valid values: `txt` , `srt` . Default value: `txt` .	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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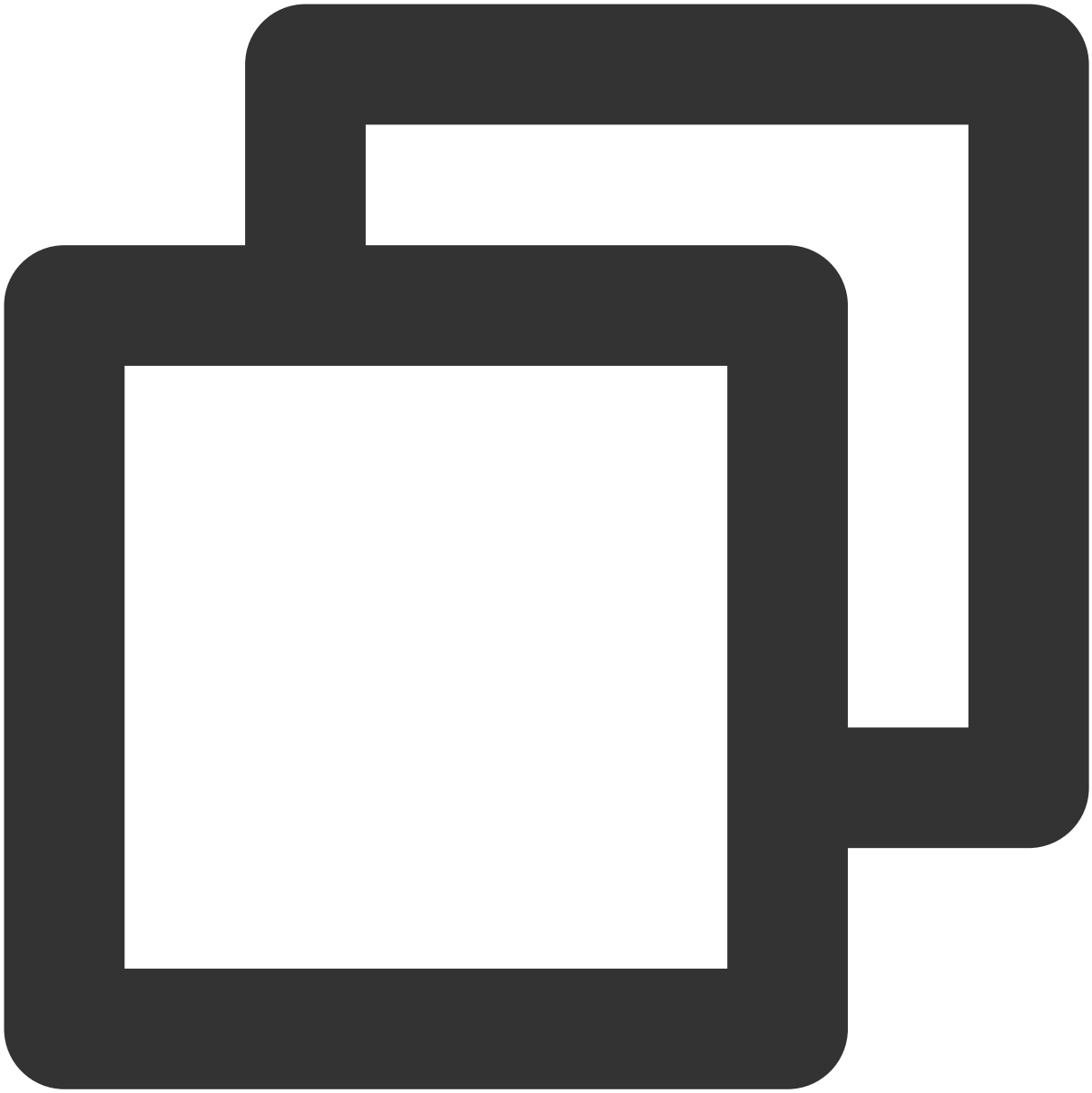

```
<Response>
    <Template>
        <Tag>SpeechRecognition</Tag>
        <Name>TemplateName</Name>
        <State>Normal</State>
        <Tag>SpeechRecognition</Tag>
        <CreateTime></CreateTime>
        <UpdateTime></UpdateTime>
        <BucketId></BucketId>
        <Category>Custom</Category>
        <SpeechRecognition>
```

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```
            <EngineModelType>16k_zh</EngineModelType>
            <ResTextFormat>1</ResTextFormat>
            <FilterDirty>0</FilterDirty>
            <FilterModal>1</FilterModal>
            <ConvertNumMode>0</ConvertNumMode>
            <SpeakerDiarization>1</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
            <OutputFileType>txt</OutputFileType>
        </SpeechRecognition>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Response.Template	Template ID.	String
Name	Response.Template	Template name.	String
BucketId	Response.Template	Template bucket.	String
Category	Response.Template	Template category: `Custom` or `Official`.	String
Tag	Response.Template	Template tag: SpeechRecognition.	String
UpdateTime	Response.Template	Update time.	String
CreateTime	Response.Template	Creation time.	String
SpeechRecognition	Response.Template	Same as the `Request.SpeechRecognition` in the request body.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

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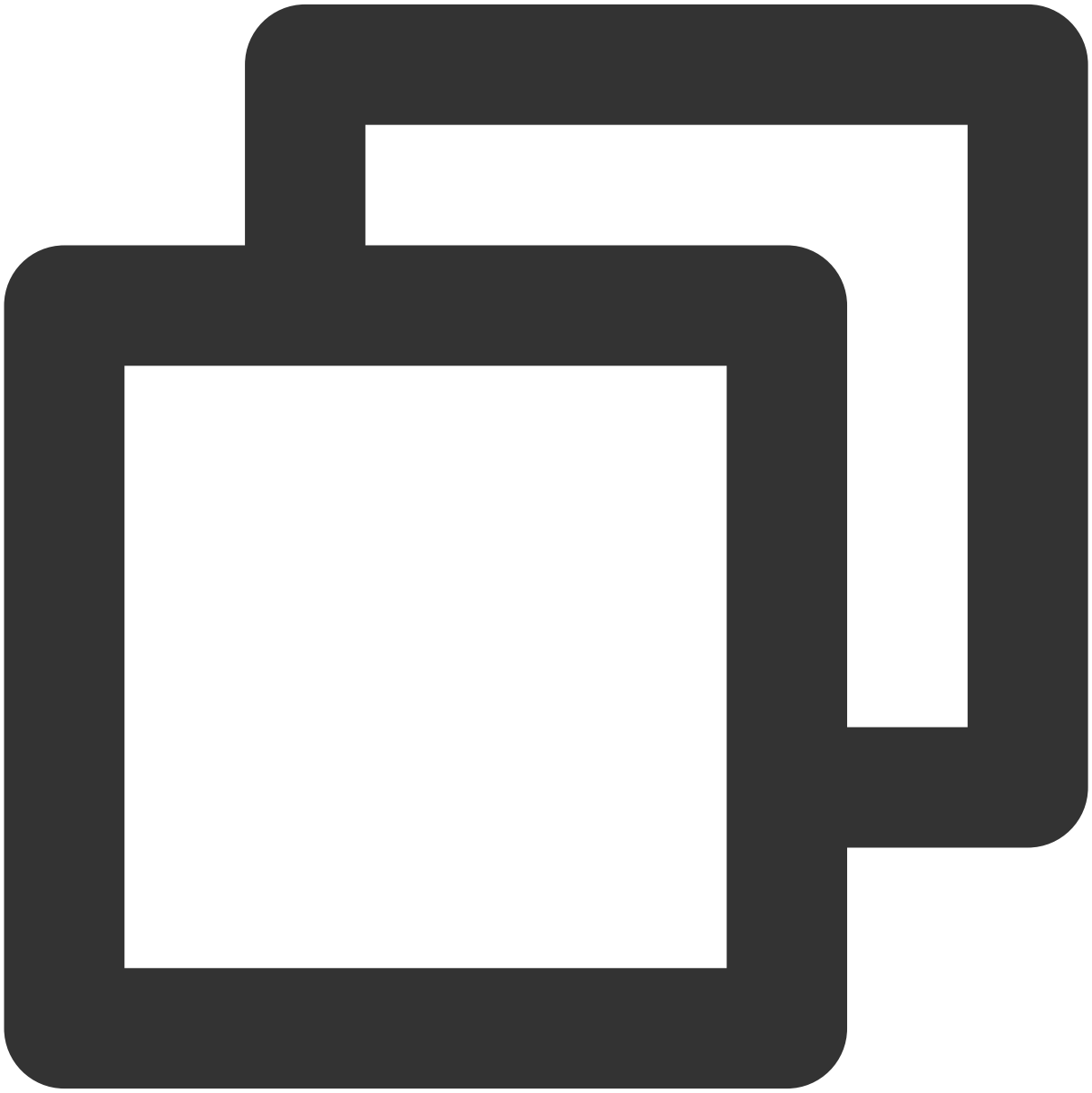
Samples

Request



```
POST /template HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-chongqing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml
```

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```
<Request>
    <Tag>SpeechRecognition</Tag>
    <Name>TemplateName</Name>
    <SpeechRecognition>
        <EngineModelType>16k_zh</EngineModelType>
        <ResTextFormat>1</ResTextFormat>
        <FilterDirty>0</FilterDirty>
        <FilterModal>1</FilterModal>
        <ConvertNumMode>0</ConvertNumMode>
        <SpeakerDiarization>1</SpeakerDiarization>
        <SpeakerNumber>0</SpeakerNumber>
        <FilterPunc>0</FilterPunc>
        <OutputFileType>txt</OutputFileType>
    </SpeechRecognition>
</Request>
```

Response

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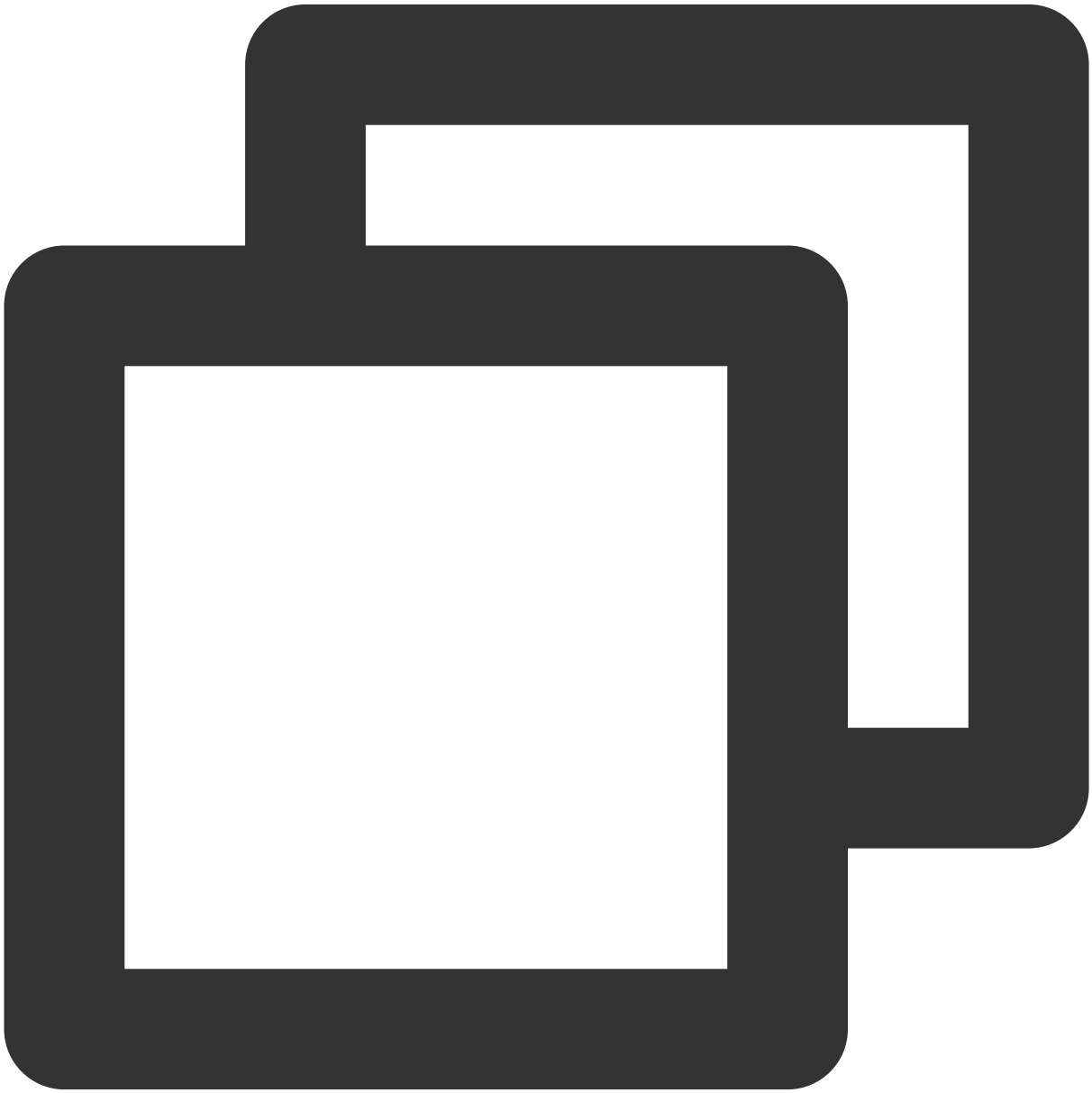

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
        <Name>TemplateName</Name>
        <State>Normal</State>
        <Tag>SpeechRecognition</Tag>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SpeechRecognition>
            <EngineModelType>16k_zh</EngineModelType>
            <ChannelNum>1</ChannelNum>
            <ResTextFormat>0</ResTextFormat>
            <FilterDirty>1</FilterDirty>
            <FilterModal>0</FilterModal>
            <ConvertNumMode>1</ConvertNumMode>
            <SpeakerDiarization>0</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
        </SpeechRecognition>
    </Template>
</Response>
```

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Querying AI-Based Content Recognition Template DescribeTemplates

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to query a template.

Request

Sample request

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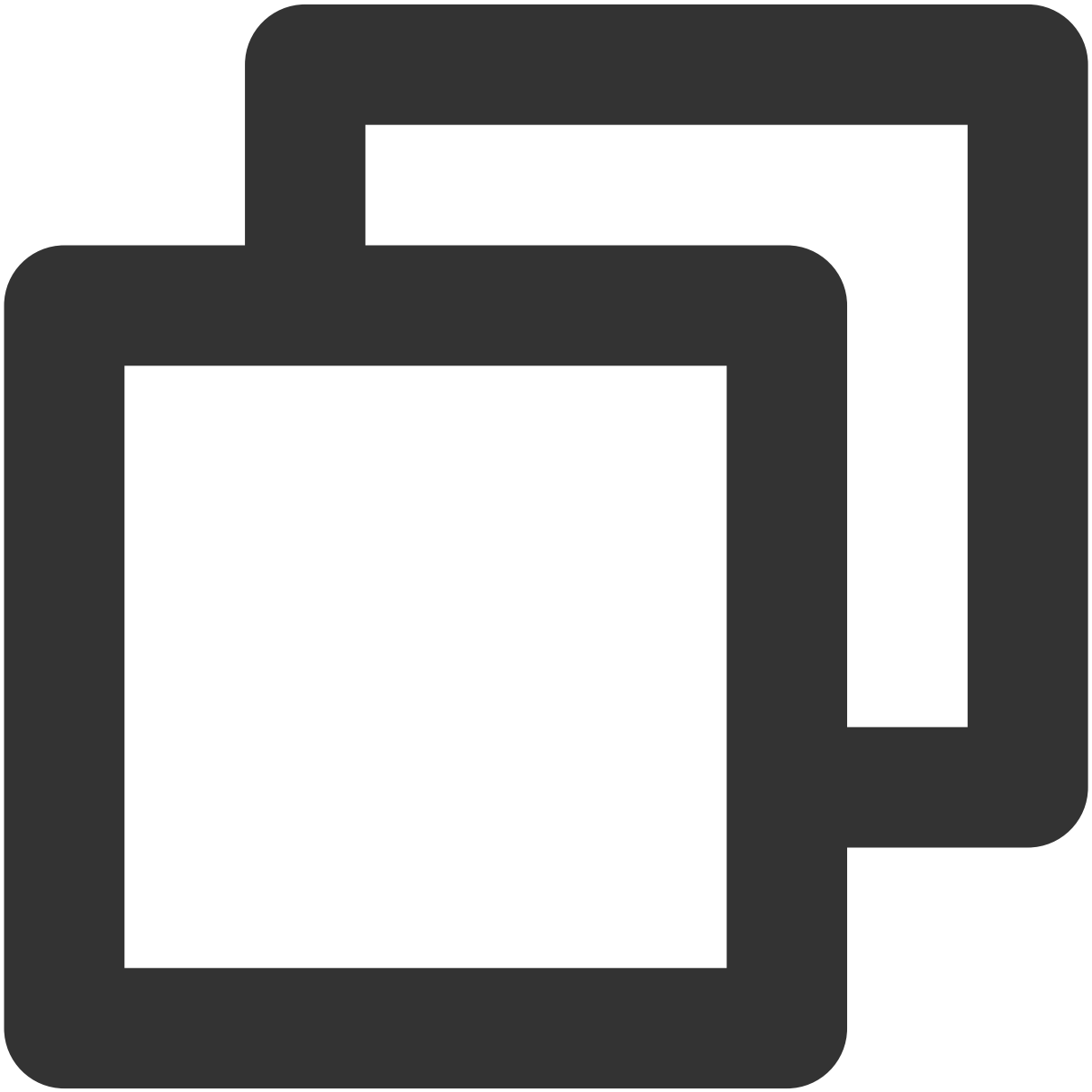

```
GET /template HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Request parameters

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
tag	None	Template tag. Default value: `All`.	String	No
category	None	Valid values: `Official` (system preset template); `Custom` (custom template). Default value: `Custom`.	String	No
ids	None	Template ID. If you enter multiple IDs, separate them by comma.	String	No
name	None	Template name prefix	String	No
pageNumber	None	Page number. Default value: `1`.	Integer	No
pageSize	None	Number of entries per page. Default value: `10`.	Integer	No

Supported `tag` types are as follows:

Template type	tag
Speech recognition	SpeechRecognition

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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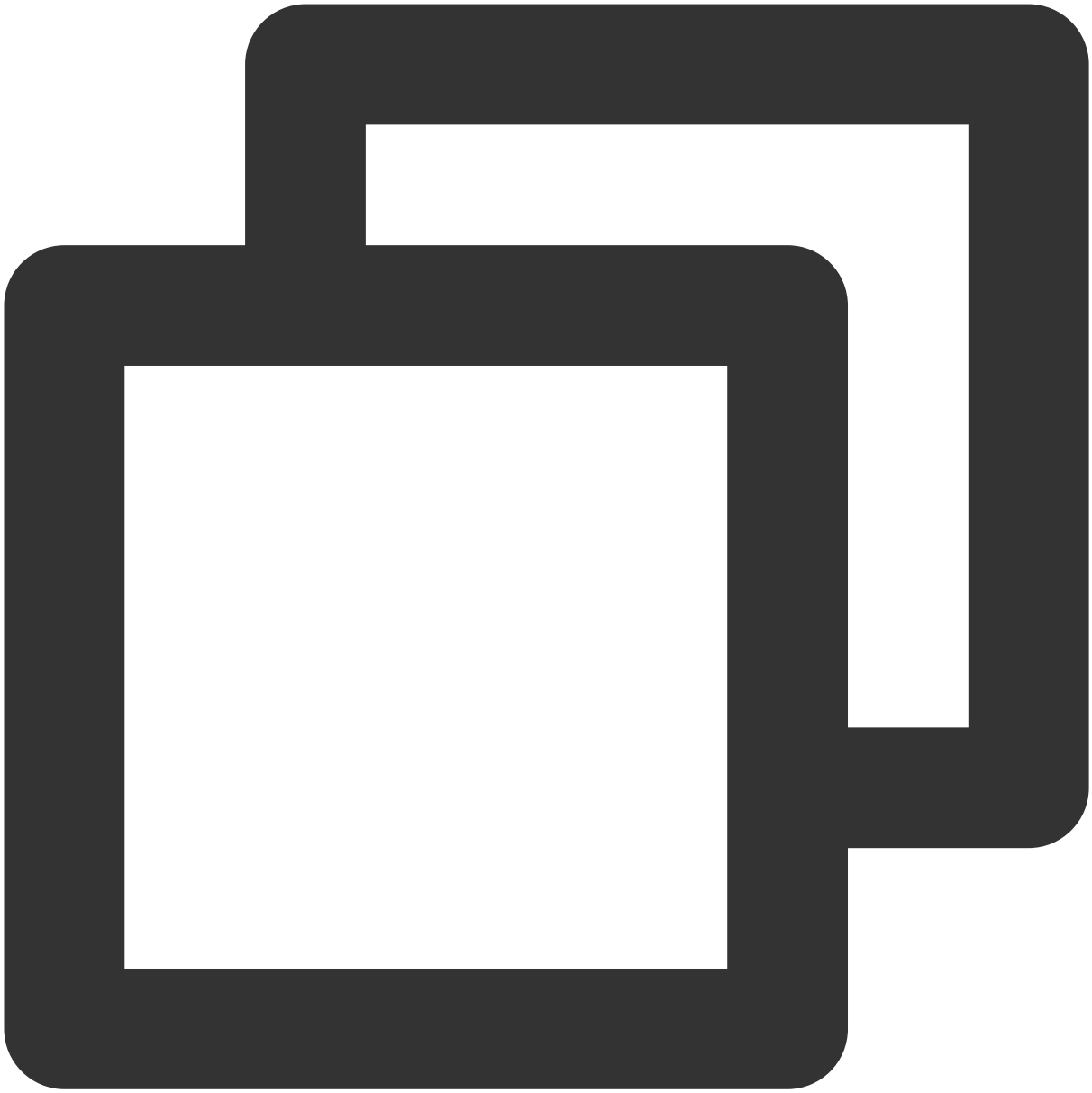

```
<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhfMjc=</RequestId>
    <TotalCount>1</TotalCount>
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <TemplateList>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <Tag>SpeechRecognition</Tag>
        <SpeechRecognition>
            <EngineModelType>16k_zh</EngineModelType>
```

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```
            <ResTextFormat>1</ResTextFormat>
            <FilterDirty>0</FilterDirty>
            <FilterModal>1</FilterModal>
            <ConvertNumMode>0</ConvertNumMode>
            <SpeakerDiarization>1</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
            <OutputFileType>txt</OutputFileType>
        </SpeechRecognition>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </TemplateList>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request.	String
TotalCount	Response	Total number of templates	Int
PageNumber	Response	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Response	Number of entries per page, which is the same as `pageSize` in the request.	Int
TemplateList	Response	Template array	Container array

For different types of templates, the `TemplateList` content is the same as the `Response` of the corresponding template creation API. For more information, see:
Speech Recognition

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

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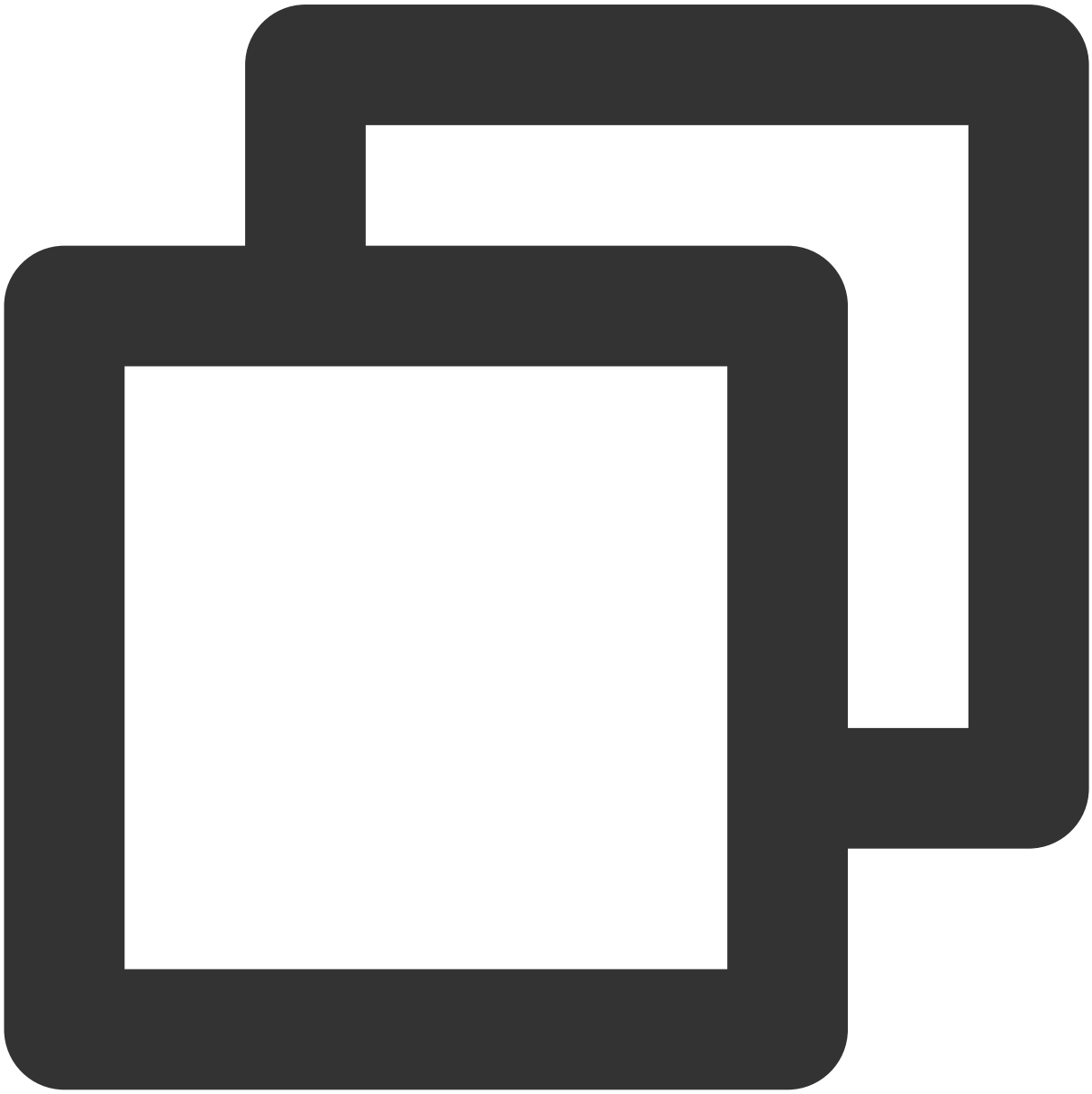
Samples

Sample 1. Querying by template ID

Request



```
GET /template?ids=t1847cd4ca57f543e89f551dbe68169eb9,t1a30a323f55434a29b25bf2a16bdf
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 0
```

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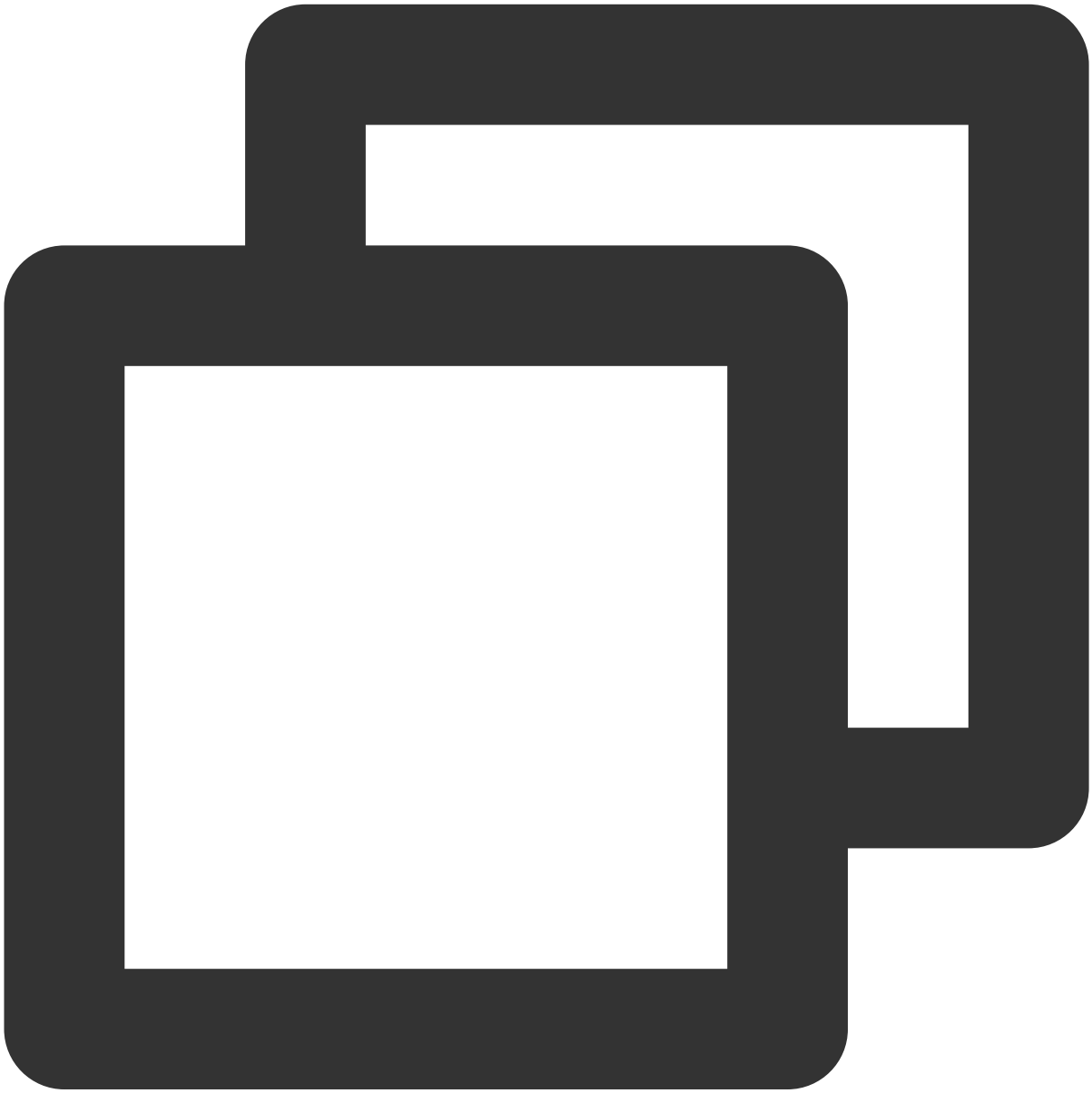
```
Content-Type: application/xml
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****
```

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```
<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <TemplateList>
        <TemplateId>t1847cd4ca57f543e89f551dbe68169eb9</TemplateId>
        <Name>TemplateName</Name>
        <Tag>SpeechRecognition</Tag>
        <SpeechRecognition>
            <EngineModelType>16k_zh</EngineModelType>
            <ResTextFormat>1</ResTextFormat>
            <FilterDirty>0</FilterDirty>
            <FilterModal>1</FilterModal>
            <ConvertNumMode>0</ConvertNumMode>
            <SpeakerDiarization>1</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
            <OutputFileType>txt</OutputFileType>
        </SpeechRecognition>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </TemplateList>
    <TemplateList>
        <TemplateId>t1a30a323f55434a29b25bf2a16bdf5f59</TemplateId>
        <Name>TemplateName</Name>
        <Tag>SpeechRecognition</Tag>
        <SpeechRecognition>
            <EngineModelType>8k_zh_s</EngineModelType>
            <ResTextFormat>1</ResTextFormat>
            <FilterDirty>0</FilterDirty>
            <FilterModal>1</FilterModal>
            <ConvertNumMode>0</ConvertNumMode>
            <SpeakerDiarization>1</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
            <OutputFileType>txt</OutputFileType>
        </SpeechRecognition>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </TemplateList>
    <NonExistTIDs>
        <TemplateId>C</TemplateId>
    </NonExistTIDs>
</Response>
```

Sample 2. Querying by paginated list

Request

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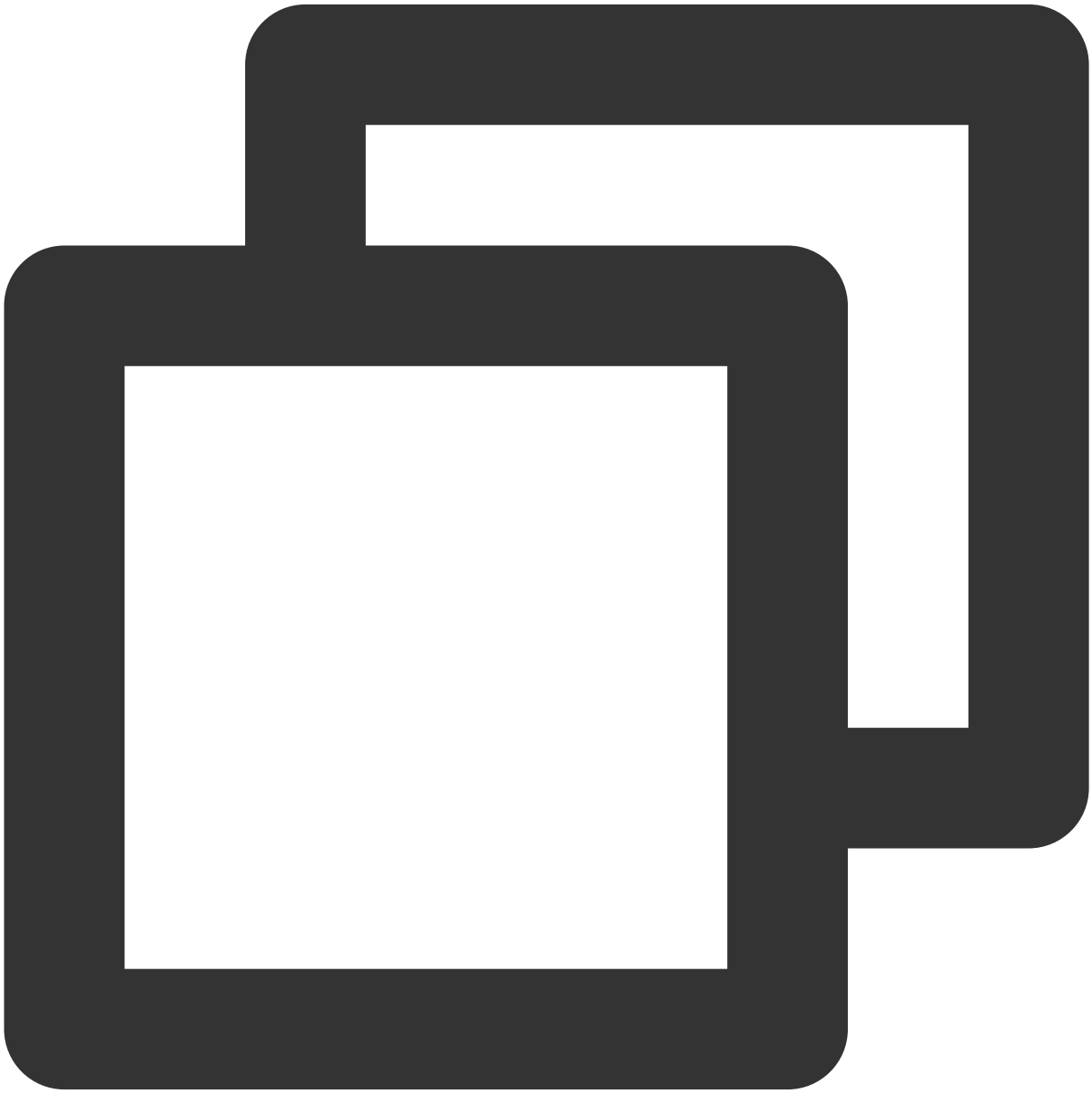

```
GET /template?pageSize=10&pageNumber=1 HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 0
Content-Type: application/xml
```

Response

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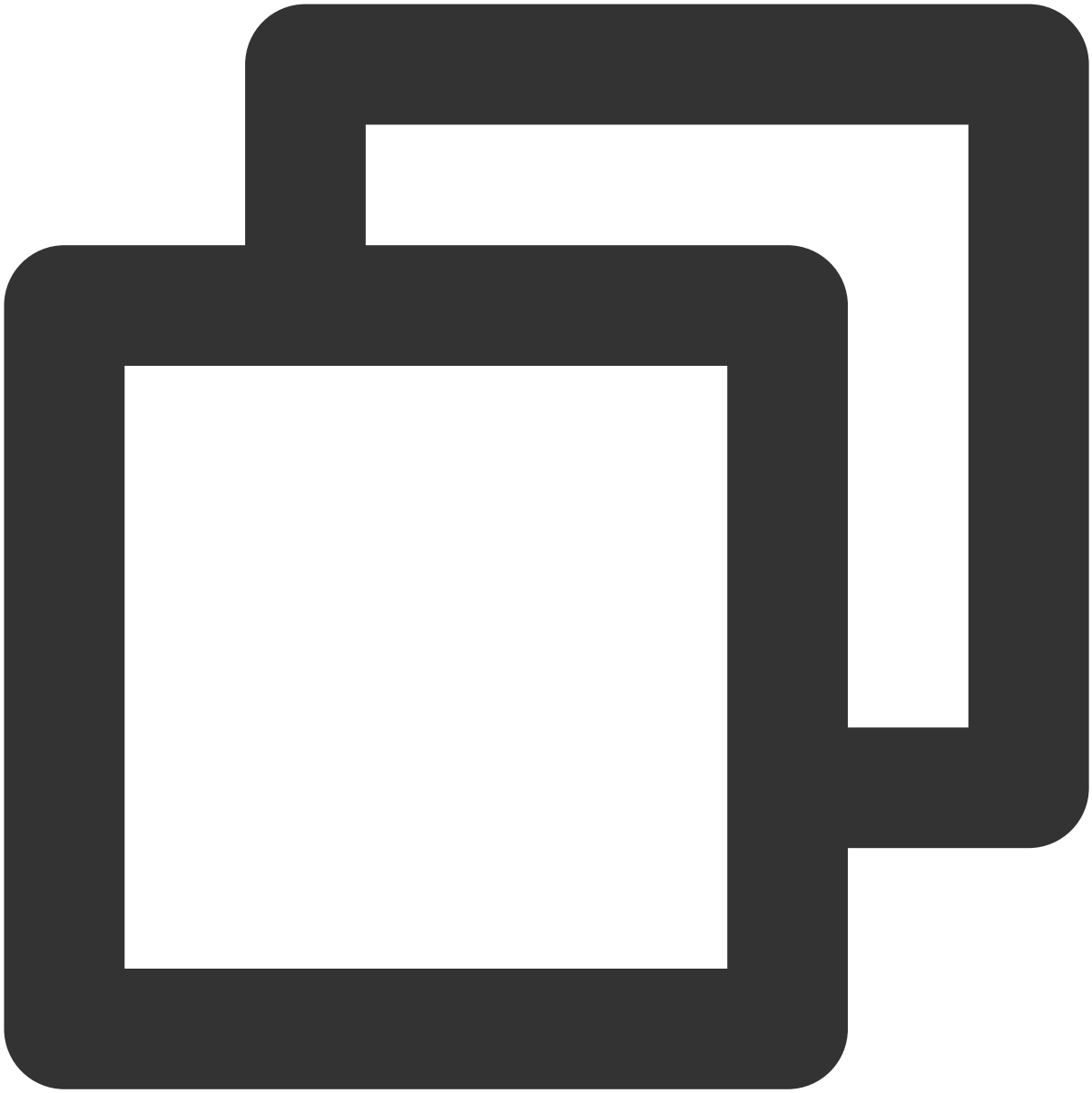

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <RequestId>NTk0MjdmODlfMjQ4OGY3XzYzYzhf****</RequestId>
    <TotalCount>2</TotalCount>
```

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```
    <PageNumber>1</PageNumber>
    <PageSize>10</PageSize>
    <TemplateList>
        <TemplateId>t1847cd4ca57f543e89f551dbe68169eb9</TemplateId>
        <Name>TemplateName</Name>
        <Tag>SpeechRecognition</Tag>
        <SpeechRecognition>
            <EngineModelType>16k_zh</EngineModelType>
            <ResTextFormat>1</ResTextFormat>
            <FilterDirty>0</FilterDirty>
            <FilterModal>1</FilterModal>
            <ConvertNumMode>0</ConvertNumMode>
            <SpeakerDiarization>1</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
            <OutputFileType>txt</OutputFileType>
        </SpeechRecognition>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </TemplateList>
    <TemplateList>
        <TemplateId>t1a30a323f55434a29b25bf2a16bdf5f59</TemplateId>
        <Name>TemplateName</Name>
        <Tag>SpeechRecognition</Tag>
        <SpeechRecognition>
            <EngineModelType>8k_zh_s</EngineModelType>
            <ResTextFormat>1</ResTextFormat>
            <FilterDirty>0</FilterDirty>
            <FilterModal>1</FilterModal>
            <ConvertNumMode>0</ConvertNumMode>
            <SpeakerDiarization>1</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
            <OutputFileType>txt</OutputFileType>
        </SpeechRecognition>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
    </TemplateList>
</Response>
```

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Updating AI-Based Content Recognition Template
Updating Automatic Speech Recognition Template

Last updated：2024-06-12 15:47:04

Feature Description

This API is used to update a speech recognition template.

Request

Sample request

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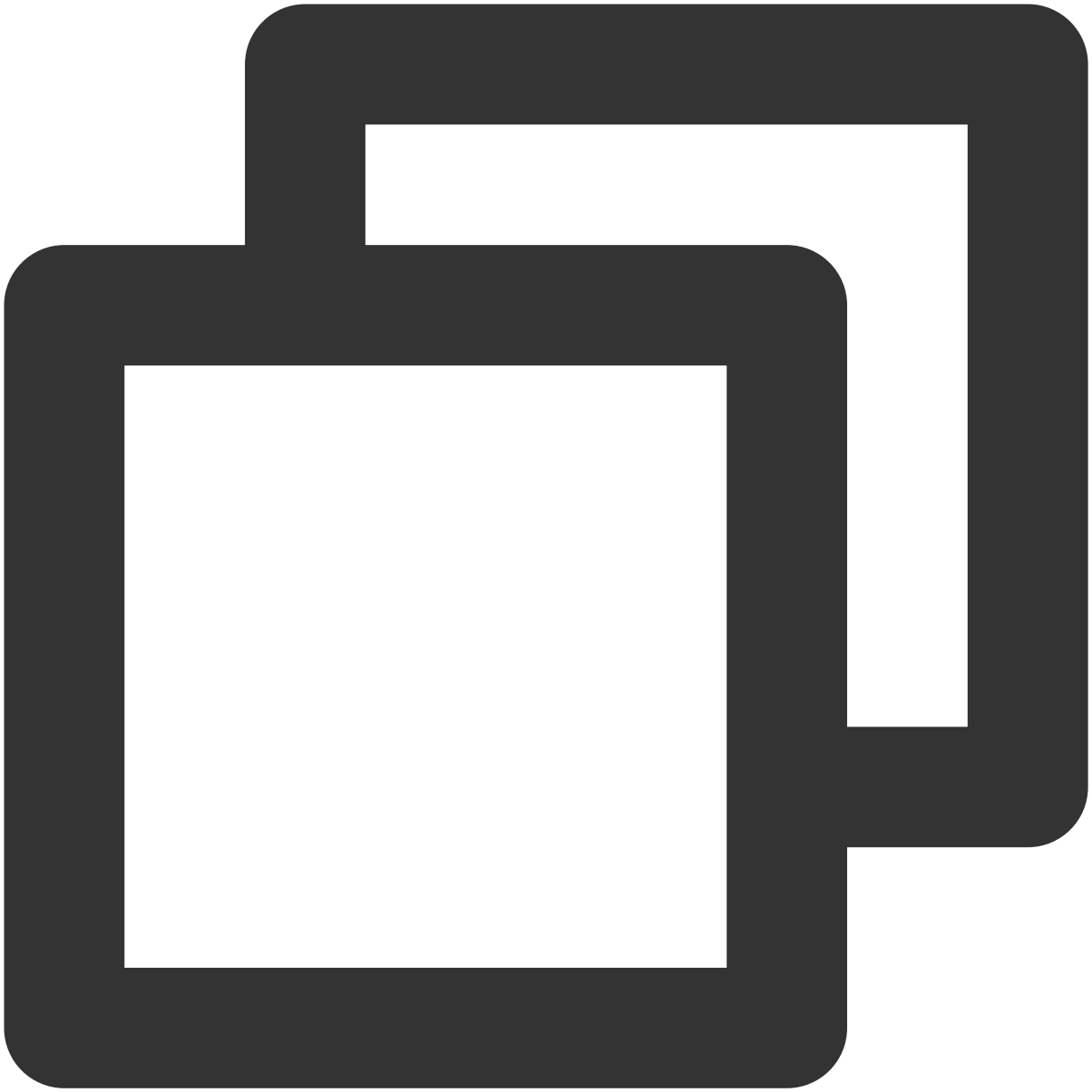

```
PUT /template/<TemplateId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

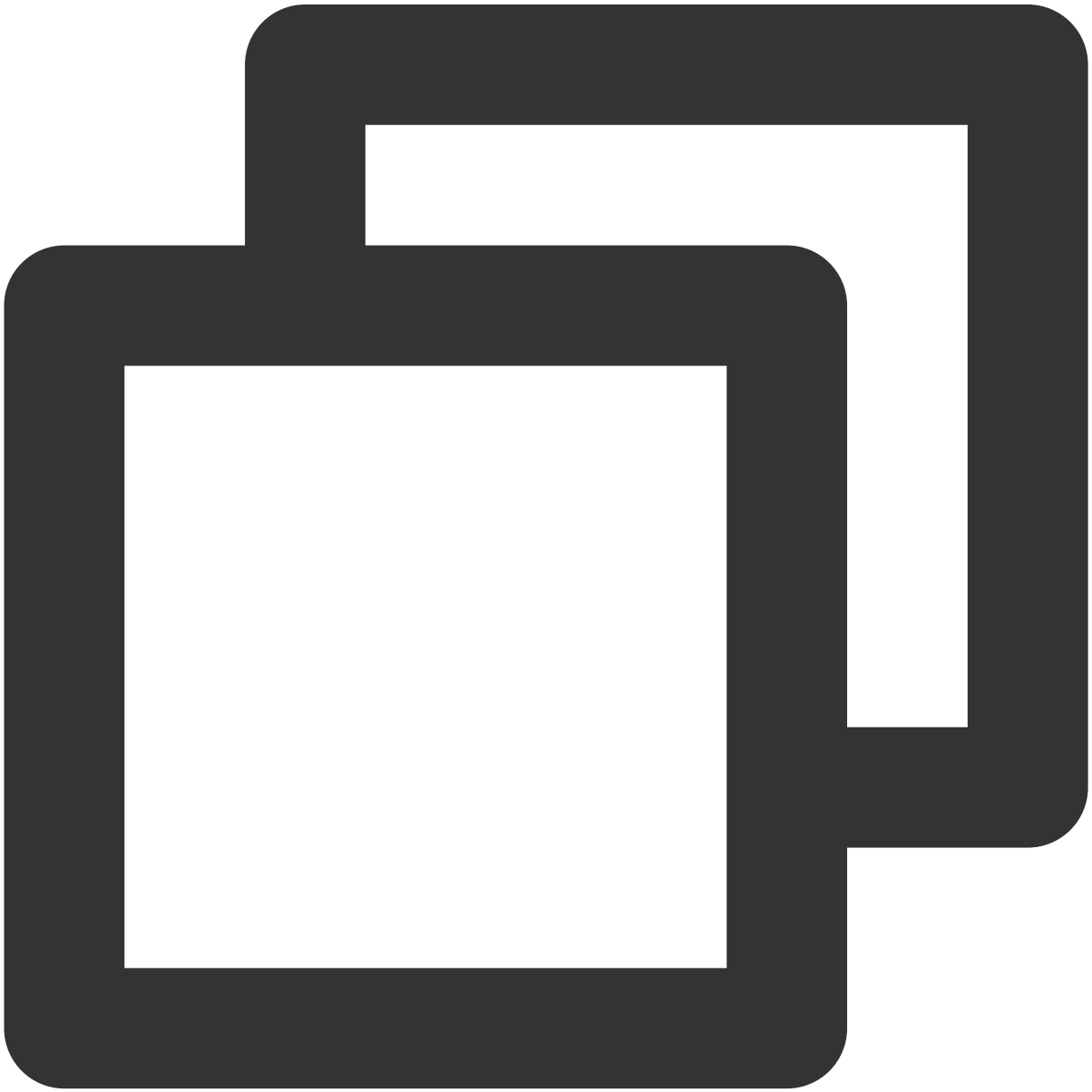
When this feature is used by a sub-account, relevant permissions must be granted.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
```

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```
    <Tag>SpeechRecognition</Tag>
    <Name>TemplateName</Name>
    <SpeechRecognition>
        <EngineModelType>16k_zh</EngineModelType>
        <ResTextFormat>1</ResTextFormat>
        <FilterDirty>0</FilterDirty>
        <FilterModal>1</FilterModal>
        <ConvertNumMode>0</ConvertNumMode>
        <SpeakerDiarization>1</SpeakerDiarization>
        <SpeakerNumber>0</SpeakerNumber>
        <FilterPunc>0</FilterPunc>
        <OutputFileType>txt</OutputFileType>
    </SpeechRecognition>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Same as `Request` in the speech recognition template creation API.	Container	Yes

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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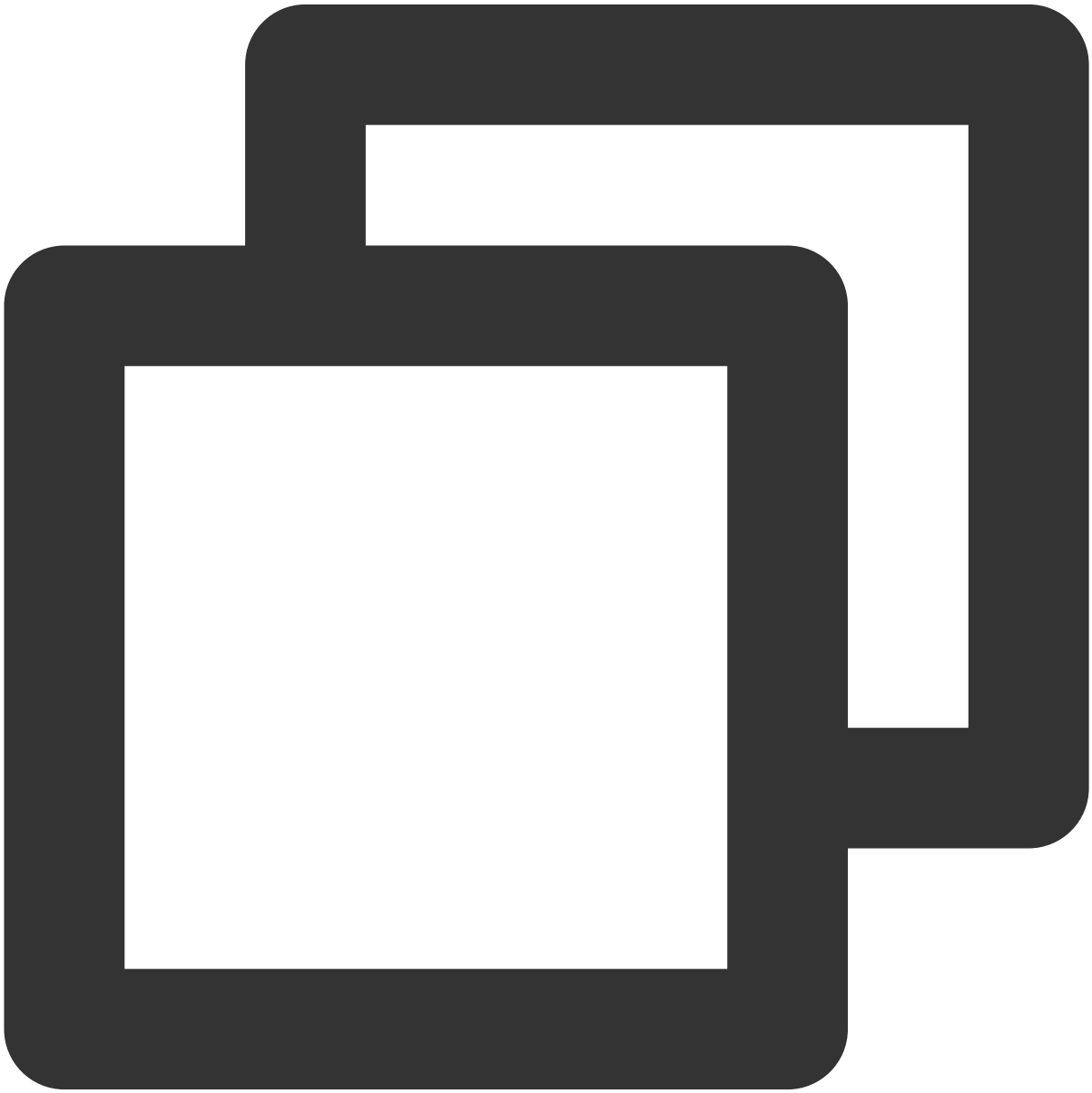

```
<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        <Name>TemplateName</Name>
        <State>Normal</State>
        <Tag>SpeechRecognition</Tag>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SpeechRecognition>
```

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```
            <EngineModelType>16k_zh</EngineModelType>
            <ChannelNum>1</ChannelNum>
            <ResTextFormat>0</ResTextFormat>
            <FilterDirty>1</FilterDirty>
            <FilterModal>0</FilterModal>
            <ConvertNumMode>1</ConvertNumMode>
            <SpeakerDiarization>0</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
        </SpeechRecognition>
    </Template>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Same as `Response` in the speech recognition template creation API.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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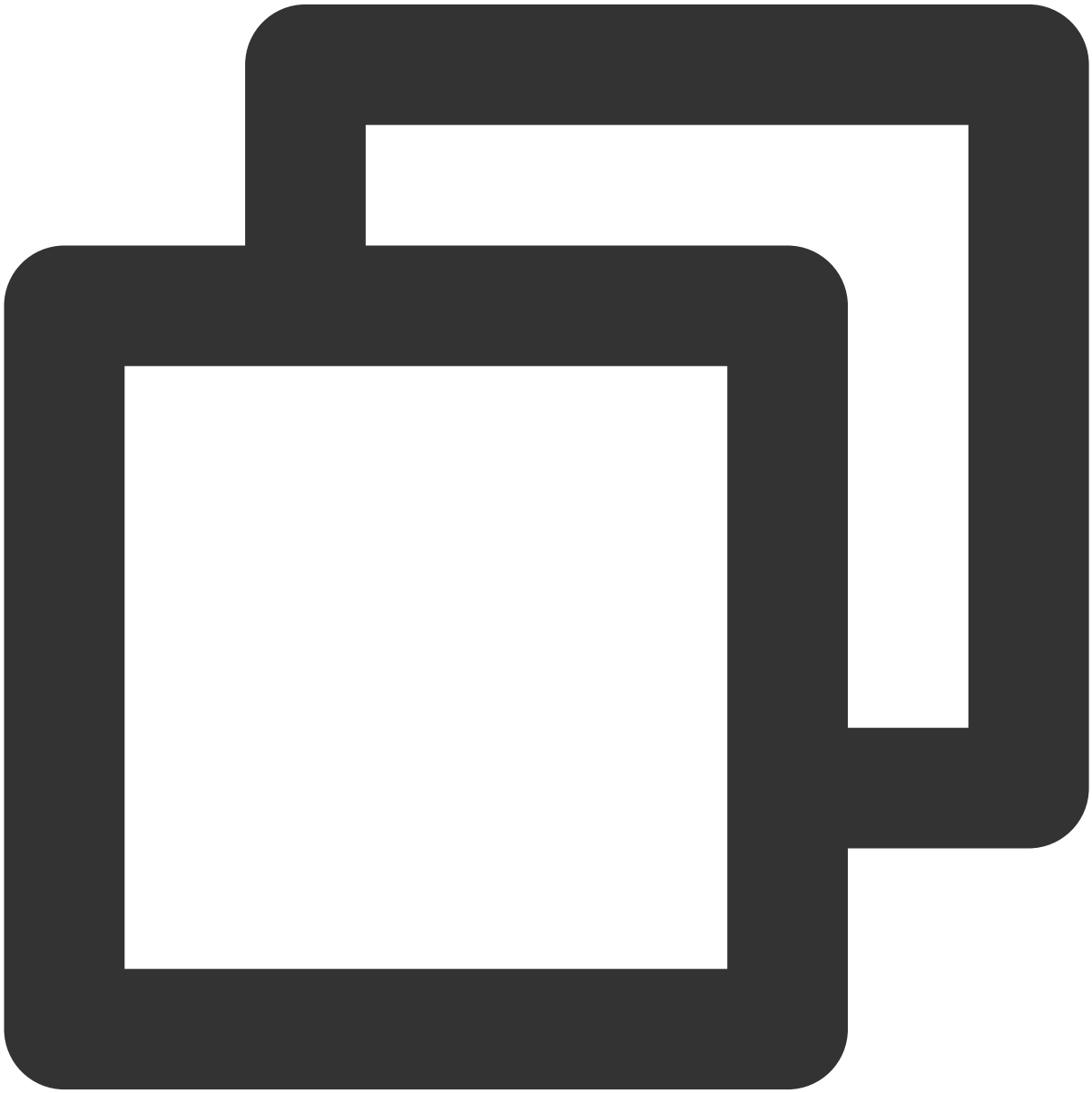

```
PUT /template/t1460606b9752148c4ab182f55163ba7cd HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: test-1234567890.ci.ap-beijing.myqcloud.com
Content-Length: 1666
Content-Type: application/xml

<Request>
    <Tag>SpeechRecognition</Tag>
    <Name>TemplateName</Name>
    <SpeechRecognition>
        <EngineModelType>16k_zh</EngineModelType>
```

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```
        <ResTextFormat>1</ResTextFormat>
        <FilterDirty>0</FilterDirty>
        <FilterModal>1</FilterModal>
        <ConvertNumMode>0</ConvertNumMode>
        <SpeakerDiarization>1</SpeakerDiarization>
        <SpeakerNumber>0</SpeakerNumber>
        <FilterPunc>0</FilterPunc>
        <OutputFileType>txt</OutputFileType>
    </SpeechRecognition>
</Request>
```

Response

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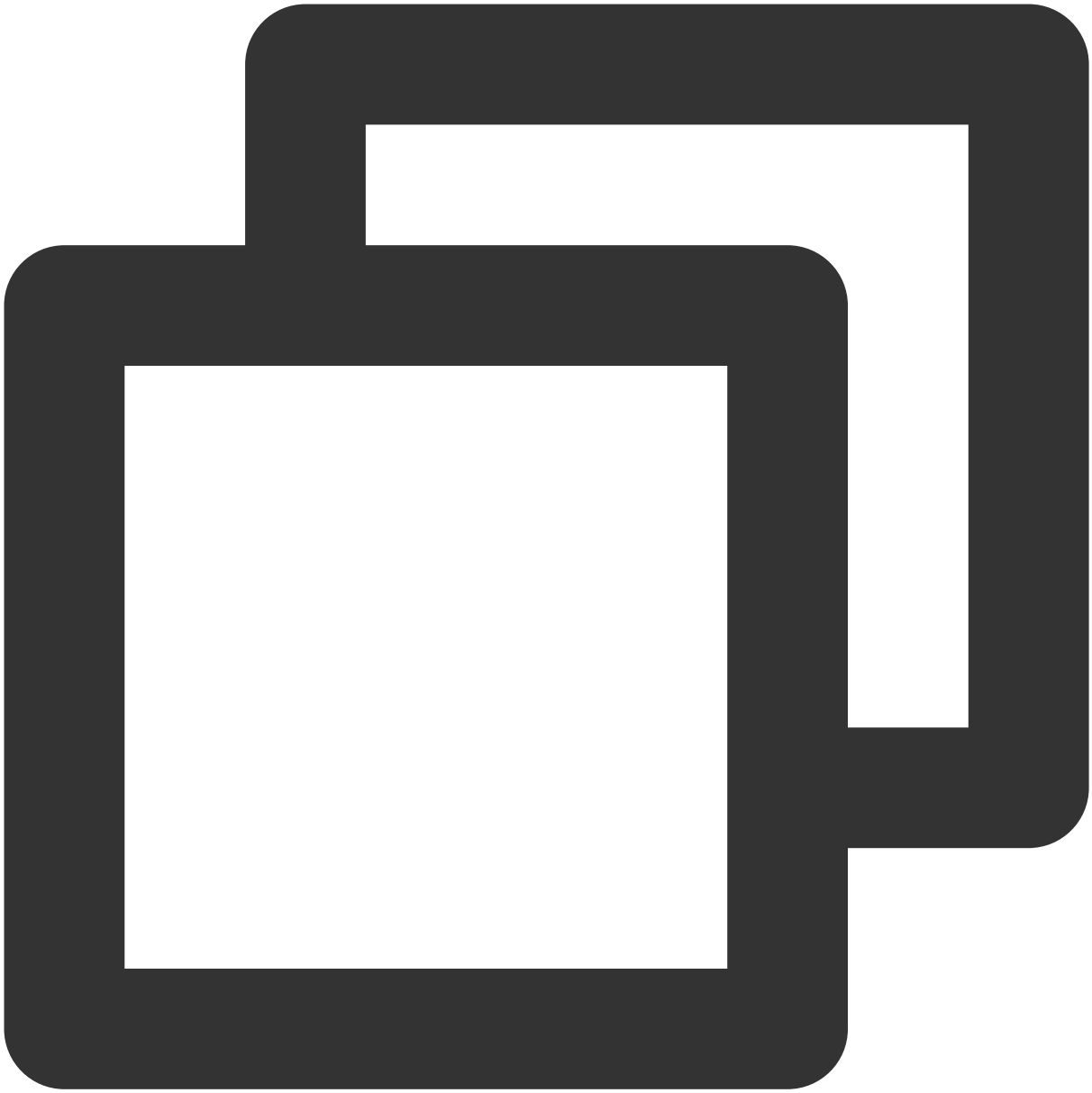

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 100
Connection: keep-alive
Date: Thu, 14 Jul 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <Template>
        <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
```

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```
        <Name>TemplateName</Name>
        <State>Normal</State>
        <Tag>SpeechRecognition</Tag>
        <CreateTime>2020-08-05T11:35:24+0800</CreateTime>
        <UpdateTime>2020-08-31T16:15:20+0800</UpdateTime>
        <BucketId>test-1234567890</BucketId>
        <Category>Custom</Category>
        <SpeechRecognition>
            <EngineModelType>16k_zh</EngineModelType>
            <ChannelNum>1</ChannelNum>
            <ResTextFormat>0</ResTextFormat>
            <FilterDirty>1</FilterDirty>
            <FilterModal>0</FilterModal>
            <ConvertNumMode>1</ConvertNumMode>
            <SpeakerDiarization>0</SpeakerDiarization>
            <SpeakerNumber>0</SpeakerNumber>
            <FilterPunc>0</FilterPunc>
        </SpeechRecognition>
    </Template>
</Response>
```

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Batch Job APIs
Triggering Job (Independent Node)

Last updated：2024-06-12 16:01:53

Feature Description

This API is used to trigger a batch data processing job through independent job parameters.

Request

Sample request

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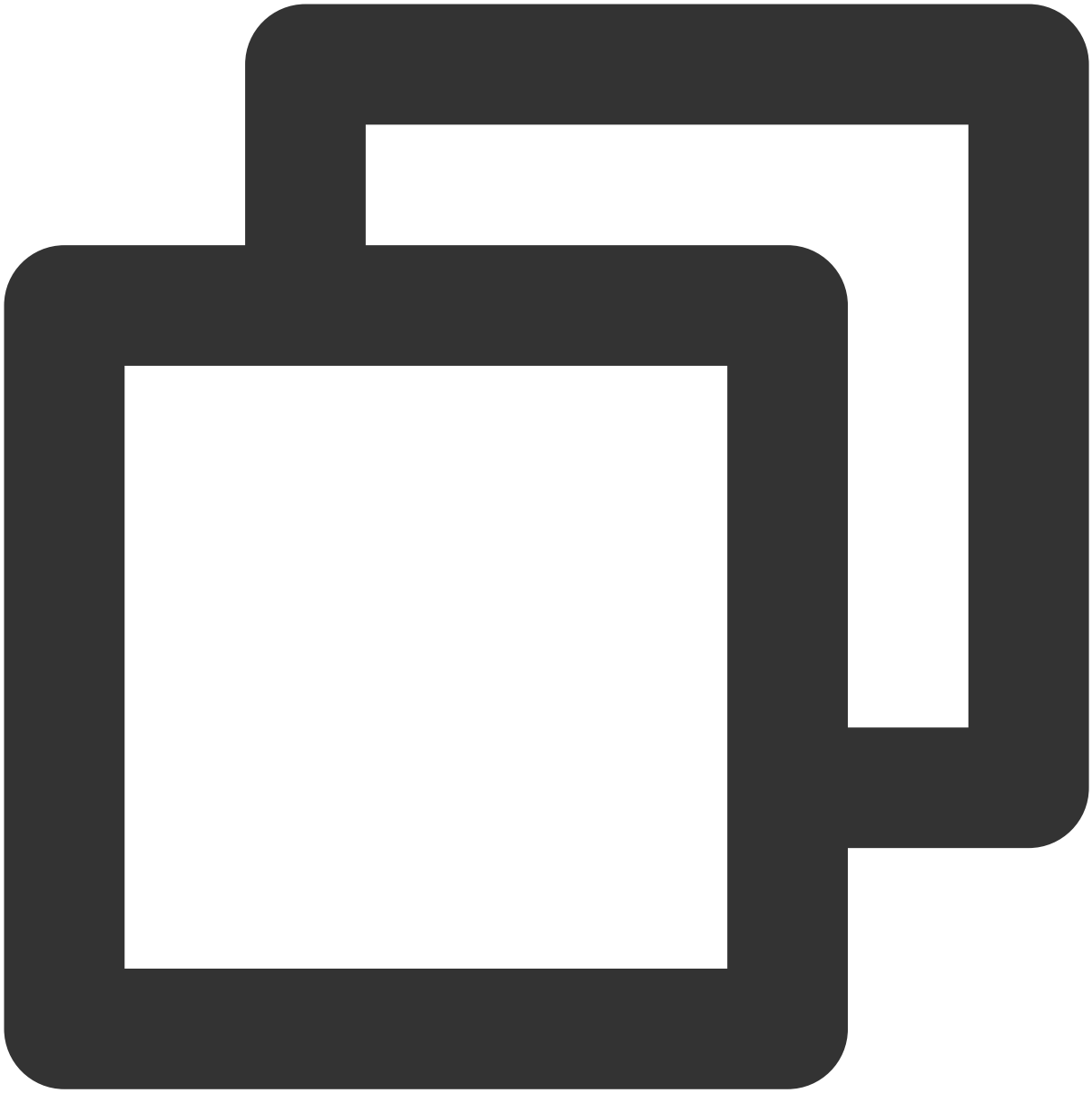

```
POST /inventorytriggerjob HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
```

Note:

Authorization: Auth String (for more information, see Request Signature).

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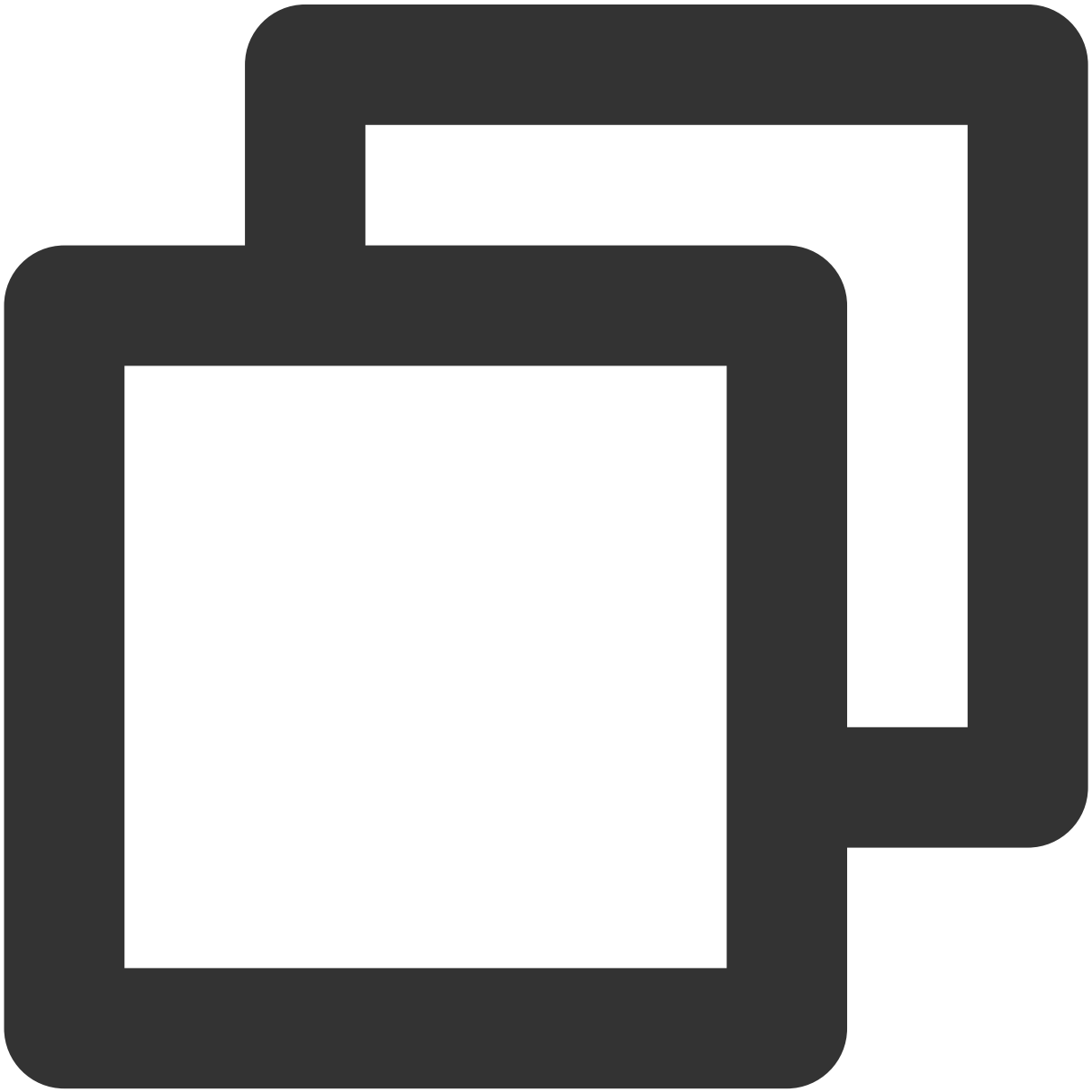
When this feature is used by a sub-account, relevant permissions must be granted. For more information, see Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
```

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```
    <Name>demo</Name>
    <Type>Job</Type>
    <Input>
        <Prefix>input</Prefix>
    </Input>
    <Operation>
        <TimeInterval>
            <Start>2022-02-01T12:00:00+0800</Start>
            <End>2022-05-01T12:00:00+0800</End>
        </TimeInterval>
        <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
        <UserData>this is my inventorytriggerjob</UserData>
        <CallBack>https://www.callback.com</CallBack>
        <Tag>Transcode</Tag>
        <JobParam>
            <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        </JobParam>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-1234567890</Bucket>
            <Object>output/${InventoryTriggerJobId}/out.mp4</Object>
        </Output>
        <JobLevel>0</JobLevel>
    </Operation>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Name	Request	Batch data processing job name, which can contain up to 128 letters, digits, hyphens, and underscores.	String	Yes
Type	Request	Batch operation job type: Job	String	Yes
Input	Request	Information of the media file to be processed	Container	Yes
Operation	Request	Operation rule	Container	Yes

`Input` has the following sub-nodes:

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Node Name (Keyword)	Parent Node	Description	Type	Required
Manifest	Request.Input	Name of the COS inventory file, i.e., the `manifest.json` file generated by the COS inventory feature.	String	No
UrlFile	Request.Input	Name of the URL file, where each URL is a COS object access address.	String	No
Prefix	Request.Input	Object prefix	String	No
Object	Request.Input	Media filename	String	No

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TimeInterval	Request.Operation	Trigger range filtered by time	Container	No
Tag	Request.Operation	Tag of the created media job	String	Yes
Output	Request.Operation	Output address **If the media job type is not `VideoTag`, `ExtractDigitalWatermark`, `MediaInfo`, or `QualityEstimate`, this parameter will be required.**	Container	No
JobParam	Request.Operation	Job parameter	Container	Yes
QueueId	Request.Operation	Queue ID	String	Yes
UserData	Request.Operation	User information	String	No
JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0`, `1`, `2`. Default value: `0`.	String	No
CallBackFormat	Request.Operation	Job callback format, which can be `JSON` or `XML` (default). It has a higher priority than that of the queue.	String	No
CallBackType	Request.Operation	Job callback type, which can be `Url` (default) or `TDMQ`. It has a	String	No

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		higher priority than that of the queue.		
CallBack	Request.Operation	Job callback address, which has a higher priority than that of the queue. If it is set to `no`, no callbacks will be generated at the callback address of the queue.	String	No
CallBackMqConfig	Request.Operation	TDMQ configuration for job callback, which will be required if `CallBackType` is `TDMQ`.	Container	No

`CallBackMqConfig` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
MqRegion	Request.Operation.CallBackMqConfig	Message queue region. Valid values: `sh` (Shanghai), `bj` (Beijing), `gz` (Guangzhou), `cd` (Chengdu), `hk` (Hong Kong, China).	String	Yes
MqMode	Request.Operation.CallBackMqConfig	Message queue mode. Default value: `Queue`. Topic: Topic subscription Queue: Queue service	String	Yes
MqName	Request.Operation.CallBackMqConfig	TDMQ topic name	String	Yes

`Operation.Tag` supports the following types:

Job Type	Tag
Video-to-animated image conversion	Animatin
Intelligent thumbnail	SmartCover
Audio/Video transcoding	Transcode
Screenshot	Snapshot
Speech recognition	SpeechRecognition
Audio/Video splicing	Concat

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Voice/Sound separation	VoiceSpearte
Video montage	VideoMontage
SDR to HDR	SDRtoHDR
Voice/Sound separation	VoiceSeparate
Video enhancement	VideoProcess
Super resolution	SuperResolution
Audio/Video remuxing	Segment
Video tagging	VideoTag
Image processing	PicProcess
Digital watermark	DigitalWatermark
Digital watermark extraction	ExtractDigitalWatermark
Async media information query	MediaInfo
Audio/Video stream separation	StreamExtract
Text to speech	Tts
Audio noise cancellation	NoiseReduction
Video quality analysis	QualityEstimate

`TimeInterval` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Start	Request.Operation.TimeInterval	Start time	String	No	0	Upload time scanned ob %Y-%m-%dT%H:%r
End	Request.Operation.TimeInterval	End time	String	No	Current time	Upload time scanned ob %Y-%m-%dT%H:%r

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`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Region	Request.Operation.Output	Bucket region	String	Yes	None
Bucket	Request.Operation.Output	Bucket name	String	Yes	None
Object	Request.Operation.Output	Result filename	String	No	If the media `VoiceSe` will be requ If the media `Request` is greater th included. If the media `Snapsho` parameter r
AuObject	Request.Operation.Output	Voice/Sound result filename	String	No	If the media will take effe empty at the
SpriteObject	Request.Operation.Output	Image sprite name	String	No	If the media effect. This same time. If `Snapsh` parameter r Only the `j`
StreamExtract	Request.Operation.Output	Configuration information of the stream separation result file. **If the media job type is `StreamExtract`, this parameter will take effect and be required.**	Container	Yes	None

`StreamExtract` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description

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Index	Request.Operation.Output.StreamExtract	Stream number, which corresponds to `Response.MediaInfo.Stream.Video.Index` and `Response.MediaInfo.Stream.Audio.Index` in the media information. For more information, see Getting Media File Information. If the input media format is `mxf` , only video streams can be extracted.
Object	Request.Operation.Output.StreamExtract	Result output filename

`JobParam` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TemplateId	Request.Operation.JobParam	Template ID	String
TranscodeTemplateId	Request.Operation.JobParam	Transcoding template ID, which will take effect if the media job type is `VideoProcess` , `SuperResolution` , or `SDR2HDR` .	Container
Animation	Request.Operation.JobParam	Animated image job parameter, which will take effect if the media job type is `Animation` .	Container
Transcode	Request.Operation.JobParam	Transcoding job parameter, which will take effect if the media job type is `Transcode` , `VideoProcess` , `SuperResolution` , or `SDR2HDR` .	String
SmartCover	Request.Operation.JobParam	Intelligent thumbnail job parameter, which will take effect if the media job type is `SmartCover` .	Container
DigitalWatermark	Request.Operation.JobParam	Digital watermark parameter, which will take effect if the media job type is `Transcode` , `VideoProcess` , `SuperResolution` , or `DigitalWatermark` .	Container
Watermark	Request.Operation.JobParam	Watermark template parameter,	Container

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		which is the same as `Request.Watermark` in the watermark template creation API `CreateMediaTemplate` and will take effect if the media job type is `Transcode` , `SDR2HDR` , `VideoProcess` , or `SuperResolution` .	
RemoveWatermark	Request.Operation.JobParam	Digital watermark removal parameter, which will take effect if the media job type is `Transcode` .	Container
WatermarkTemplateId	Request.Operation.JobParam	Watermark template parameter, which is the same as `Request.Watermark` in the watermark template creation API `CreateMediaTemplate` and will take effect if the media job type is `Transcode` , `SDR2HDR` , `VideoProcess` , or `SuperResolution` .	Container
RemoveWatermark	Request.Operation.JobParam	Digital watermark removal parameter, which will take effect if the media job type is `Transcode` .	Container
Snapshot	Request.Operation.JobParam	Screenshot job parameter, which will take effect if the media job type is `Snapshot` .	Container
SpeechRecognition	Request.Operation.JobParam	Speech recognition job parameter, which will take effect if the media job type is `SpeechRecognition` .	Container
ConcatTemplate	Request.Operation.JobParam	Splicing job parameter, which will take effect if the media job type is `Concat` .	Container
VoiceSeparate	Request.Operation.JobParam	Voice/Sound separation job parameter, which will take effect if the media job type is `VoiceSeparate` .	Container

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VideoMontage	Request.Operation.JobParam	Video montage job parameter, which will take effect if the media job type is `VideoMontage`.	Container
SDRtoHDR	Request.Operation.JobParam	SDR-to-HDR job parameter, which will take effect if the media job type is `SDRtoHDR`.	Container
VideoProcess	Request.Operation.JobParam	Video enhancement job parameter, which will take effect if the media job type is `VideoProcess`.	Container
SuperResolution	Request.Operation.JobParam	Super resolution job parameter, which will take effect if the media job type is `SuperResolution`.	Container
Segment	Request.Operation.JobParam	Remuxing job parameter, which will take effect if the media job type is `Segment`.	Container
ExtractDigitalWatermark	Request.Operation.JobParam	Digital watermark extraction job parameter, which will take effect if the media job type is `ExtractDigitalWatermark`.	Container
VideoTag	Request.Operation.JobParam	Video tagging job parameter, which will take effect if the media job type is `VideoTag`.	Container
TtsTpl	Request.Operation.JobParam	Text-to-speech template parameter, which will take effect if the media job type is `Tts`.	Container

Note:

`TemplateId` is used first. If `TemplateId` is unavailable, the corresponding job type parameter is used.

`DigitalWatermark` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Message	Request.Operation.JobParam.DigitalWatermark	The string embedded by the digital watermark, which can contain up to 64 letters, digits,	String

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		underscores (_), hyphens (-), and asterisks (*).	
Type	Request.Operation.JobParam.DigitalWatermark	Watermark type, which currently can be set to `Text` only.	String
Version	Request.Operation.JobParam.DigitalWatermark	Watermark version, which currently can be set to `V1` only.	String
IgnoreError	Request.Operation.JobParam.DigitalWatermark	Whether to ignore the watermarking failure and continue the job. Valid values: `true`, `false` (default). If `Request.Operation.Tag` is `DigitalWatermark`, this parameter will not take effect, and the job will fail if watermark adding fails.	String

`Animation` has the following sub-nodes:

Same as `Request.Operation.Animation` as described in Submitting Video-to-Animated Image Conversion Job.

`Transcode` has the following sub-nodes:

Same as `Request.Operation.Transcode` as described in Submitting Audio/Video Transcoding Job.

`Watermark` has the following sub-nodes:

Same as `Request.Operation.Watermark` as described in Submitting Audio/Video Transcoding Job.

`RemoveWatermark` has the following sub-nodes:

Same as `Request.Operation.RemoveWatermark` as described in Submitting Audio/Video Transcoding Job.

`SmartCover` has the following sub-nodes:

Same as `Request.Operation.SmartCover` as described in Submitting Intelligent Thumbnail Job.

`Snapshot` has the following sub-nodes:

Same as `Request.Operation.Snapshot` as described in Submitting Video Frame Capturing Job.

`SpeechRecognition` has the following sub-nodes:

Same as `Request.Operation.SpeechRecognition` as described in Submitting Speech Recognition Job.

`ConcatTemplate` has the following sub-nodes:

Same as `Request.Operation.ConcatTemplate` as described in Submitting Video Splicing Job.

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`VoiceSeparate` has the following sub-nodes:

Same as `Request.Operation.VoiceSeparate` as described in Submitting Voice/Sound Separation Job.

`VideoMontage` has the following sub-nodes:

Same as `Request.Operation.VideoMontage` as described in Submitting Video Montage Job.

`SDRtoHDR` has the following sub-nodes:

Same as `Request.Operation.SDRtoHDR` as described in Submitting SDR-to-HDR Job.

`VideoProcess` has the following sub-nodes:

Same as `Request.Operation.VideoProcess` as described in Submitting Video Enhancement Job.

`SuperResolution` has the following sub-nodes:

Same as `Request.Operation.SuperResolution` as described in Submitting Super Resolution Job.

`Segment` has the following sub-nodes:

Same as `Request.Operation.Segment` as described in Submitting Remuxing Job.

`ExtractDigitalWatermark` has the following sub-nodes:

Same as `Request.Operation.ExtractDigitalWatermark` as described in Submitting Digital Watermark Extracting Job.

`VideoTag` has the following sub-nodes:

Same as `Request.Operation.VideoTag` as described in Submitting Video Tagging Job.

`TtsTpl` has the following sub-nodes:

Same as `Request.Operation.TtsTpl` as described in Submitting Text-to-Speech Job.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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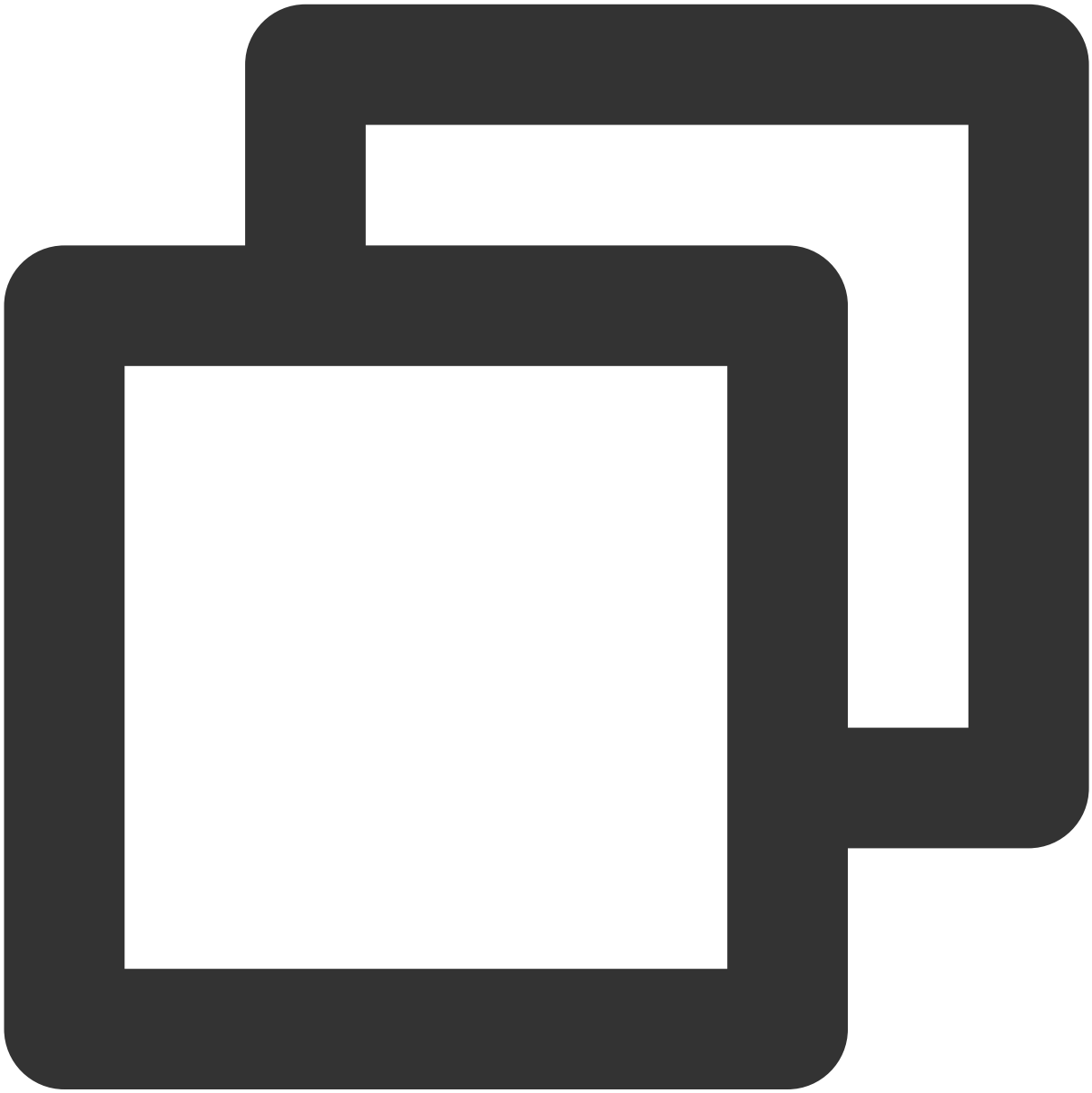

```
<Response>
    <RequestId>NjJiZDU1ZmZfOTBmYTUwNjRfNzdjY18xYQ==<RequestId>
    <JobsDetail>
        <Code>Success</Code>
        <Type>Job</Type>
        <Message/>
        <Name>demo</Name>
        <JobId>be8f65004eb8511eaaed4f377124a303c</JobId>
        <State>Running</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>2022-06-27T15:23:11+0800</StartTime>
```

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```
        <EndTime>2022-06-27T15:25:10+0800</EndTime>
        <Input>
            <Prefix>input</Prefix>
        </Input>
        <Operation>
            <TimeInterval>
                <Start>2022-02-01T12:00:00+0800</Start>
                <End>2022-05-01T12:00:00+0800</End>
            </TimeInterval>
            <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
            <UserData>this is my inventorytriggerjob</UserData>
            <CallBack>https://www.callback.com</CallBack>
            <Tag>Transcode</Tag>
            <JobParam>
                <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
            </JobParam>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>output/${InventoryTriggerJobId}/out.mp4</Object>
            </Output>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Result storage container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which will be returned only if `State` is `Failed`	String

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Message	Response.JobsDetail	Error message, which will be returned only if `State` is `Failed`	String
Type	Response.JobsDetail	Batch operation job type: Job	String
Name	Response.JobsDetail	Job name	String
JobId	Response.JobsDetail	Job ID	String
State	Response.JobsDetail	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Response.JobsDetail	Job creation time	String
StartTime	Response.JobsDetail	Job start time	String
EndTime	Response.JobsDetail	Job end time	String
Input	Response.JobsDetail	Input resource address of the job, which is the same as the `Request.Input` node in the request.	Container
Operation	Response.JobsDetail	Operation rule, which is the same as the `Request.Input Operation` node in the request.	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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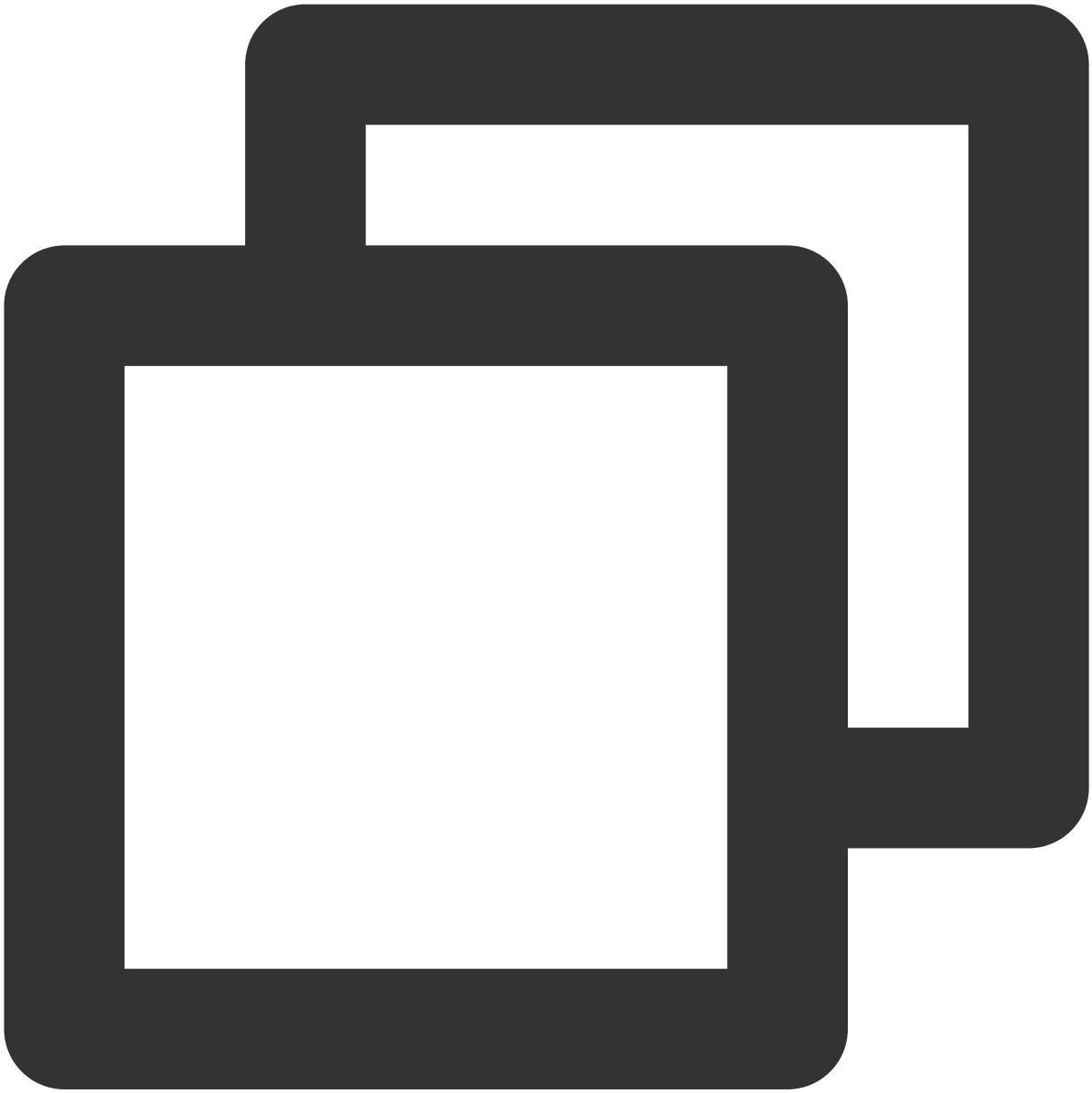

```
POST /inventorytriggerjob HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Name>demo</Name>
    <Type>Job</Type>
    <Input>
        <Prefix>input</Prefix>
```

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```
    </Input>
    <Operation>
        <TimeInterval>
            <Start>2022-02-01T12:00:00+0800</Start>
            <End>2022-05-01T12:00:00+0800</End>
        </TimeInterval>
        <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
        <UserData>this is my inventorytriggerjob</UserData>
        <CallBack>https://www.callback.com</CallBack>
        <Tag>Transcode</Tag>
        <JobParam>
            <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
        </JobParam>
        <Output>
            <Region>ap-chongqing</Region>
            <Bucket>test-1234567890</Bucket>
            <Object>output/${InventoryTriggerJobId}/out.mp4</Object>
        </Output>
        <JobLevel>0</JobLevel>
    </Operation>
</Request>
```

Response

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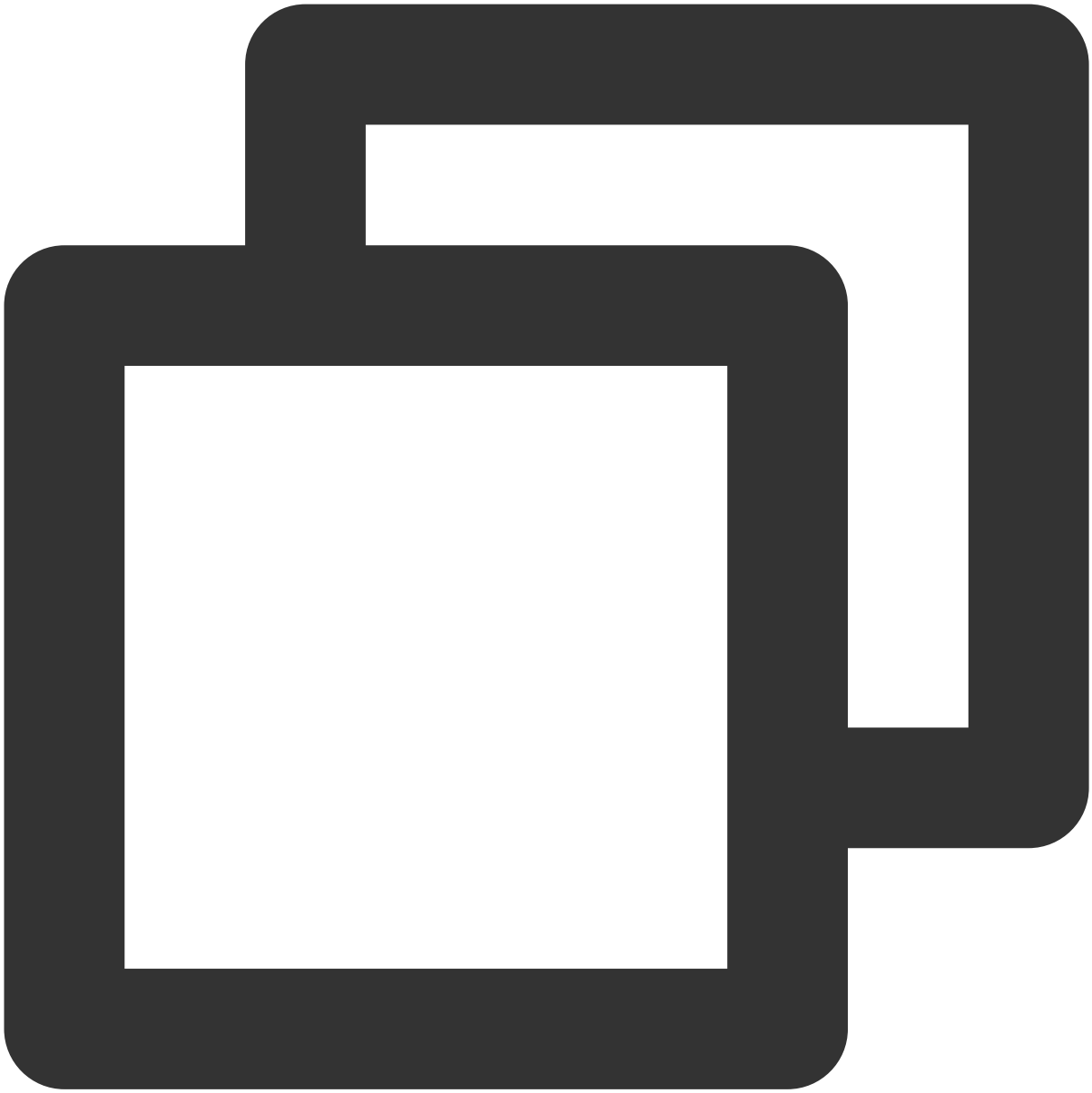

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjJiZDU1ZmZfOTBmYTUwNjRfNzdjY18xYQ==

<Response>
    <RequestId>NjJiZDU1ZmZfOTBmYTUwNjRfNzdjY18xYQ==<RequestId>
    <JobsDetail>
```

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```
        <Code>Success</Code>
        <Type>Job</Type>
        <Message/>
        <Name>demo</Name>
        <JobId>be8f65004eb8511eaaed4f377124a303c</JobId>
        <State>Running</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>2022-06-27T15:23:11+0800</StartTime>
        <EndTime>2022-06-27T15:25:10+0800</EndTime>
        <Input>
            <Prefix>input</Prefix>
        </Input>
        <Operation>
            <TimeInterval>
                <Start>2022-02-01T12:00:00+0800</Start>
                <End>2022-05-01T12:00:00+0800</End>
            </TimeInterval>
            <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
            <UserData>this is my inventorytriggerjob</UserData>
            <CallBack>https://www.callback.com</CallBack>
            <Tag>Transcode</Tag>
            <JobParam>
                <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
            </JobParam>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
                <Object>output/${InventoryTriggerJobId}/out.mp4</Object>
            </Output>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
</Response>
```

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Triggering Job

Last updated：2024-06-12 16:01:53

Feature Description

This API is used to trigger a batch data processing job through workflow.

Request

Sample request

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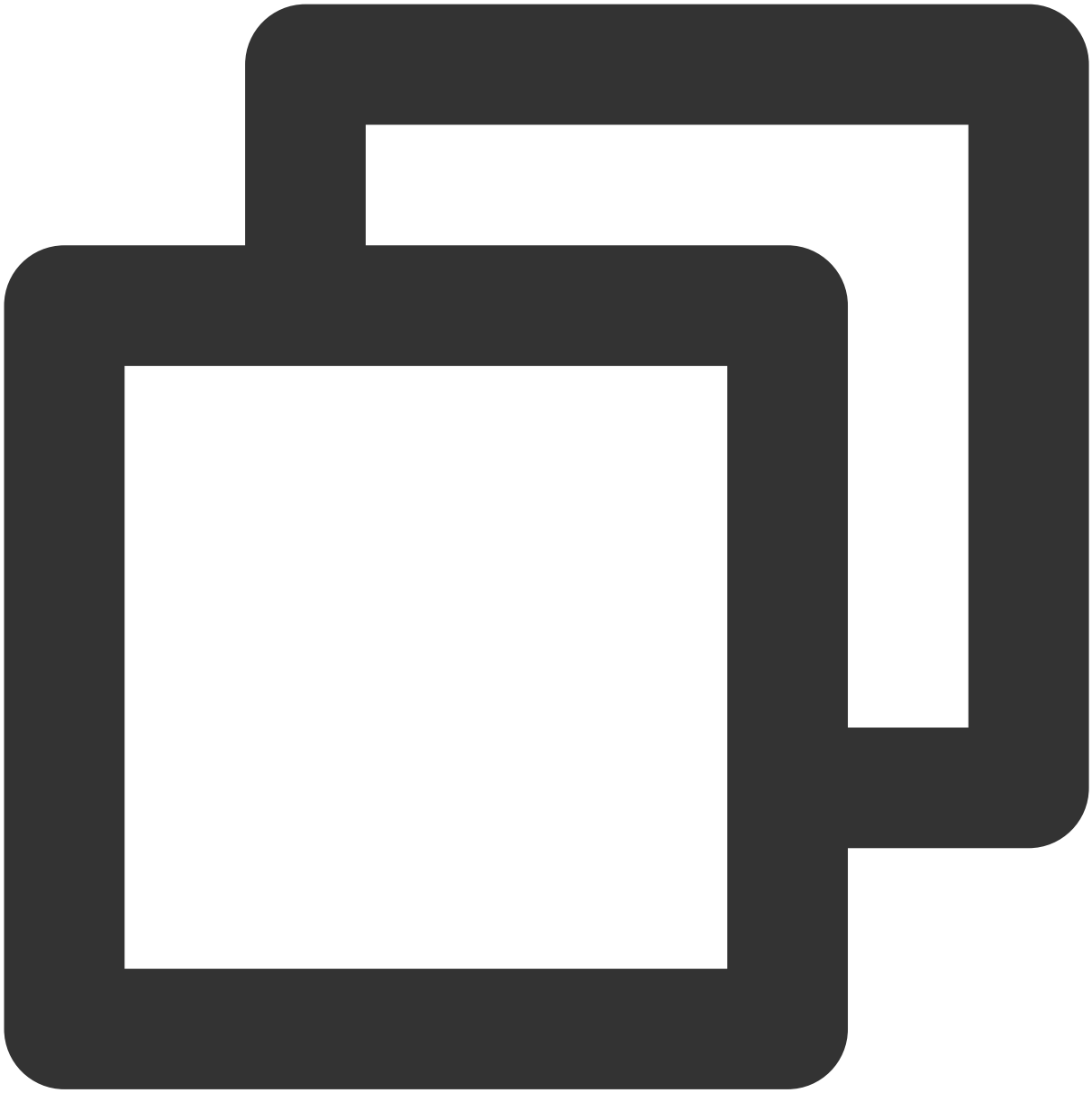

```
POST /inventorytriggerjob HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (for more information, see Request Signature).

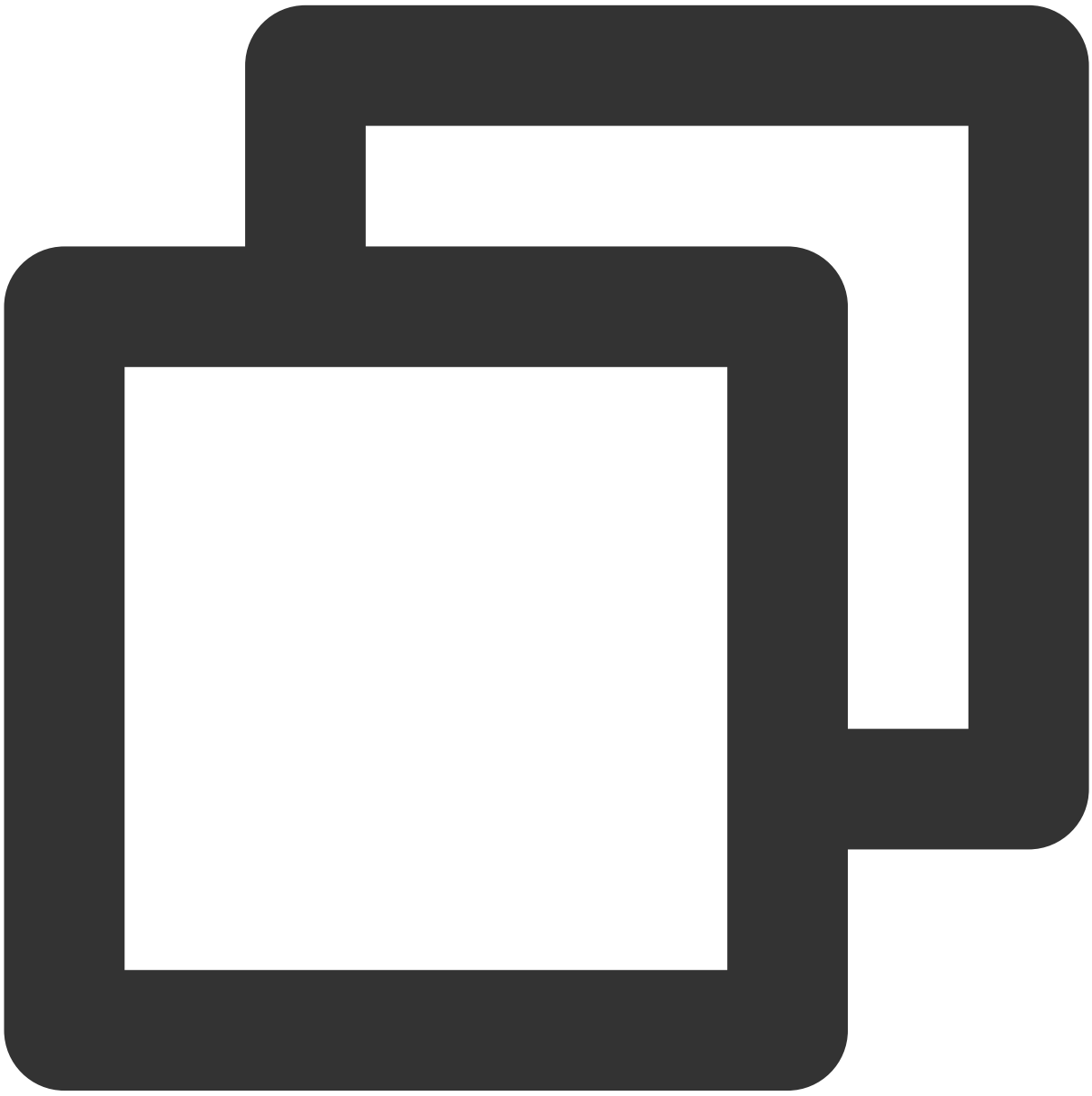
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Name>demo</Name>
    <Type>Workflow</Type>
    <Input>
        <Prefix>input</Prefix>
    </Input>
    <Operation>
        <TimeInterval>
            <Start>2022-02-01T12:00:00+0800</Start>
            <End>2022-05-01T12:00:00+0800</End>
        </TimeInterval>
        <WorkflowIds>w7476ff3564ee45b7b490d64bccaba6cc</WorkflowIds>
    </Operation>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Request container	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Name	Request	Batch data processing job name, which can contain up to 128 letters, digits, hyphens, and underscores.	String	Yes
Type	Request	Batch operation job type: `Workflow`.	String	No
Input	Request	Information of the media file to be processed	Container	Yes
Operation	Request	Operation rule	Container	Yes

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Manifest	Request.Input	Name of the COS inventory file, i.e., the `manifest.json` file generated by the COS inventory feature.	String	No
UrlFile	Request.Input	Name of the URL file, where each URL is a COS	String	No

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		object access address.		
Prefix	Request.Input	Object prefix	String	No
Object	Request.Input	Media filename	String	No

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
WorkflowIds	Request.Operation	ID of the triggered workflow	String	Yes
TimeInterval	Request.Operation	Trigger range filtered by time	Container	No

`TimeInterval` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Start	Request.TimeInterval	Start time	String	No	0	Upload time of the scanned object %Y-%m-%dT%H:%m:%S%z
End	Request.TimeInterval	End time	String	No	Current time	Upload time of the scanned object %Y-%m-%dT%H:%m:%S%z

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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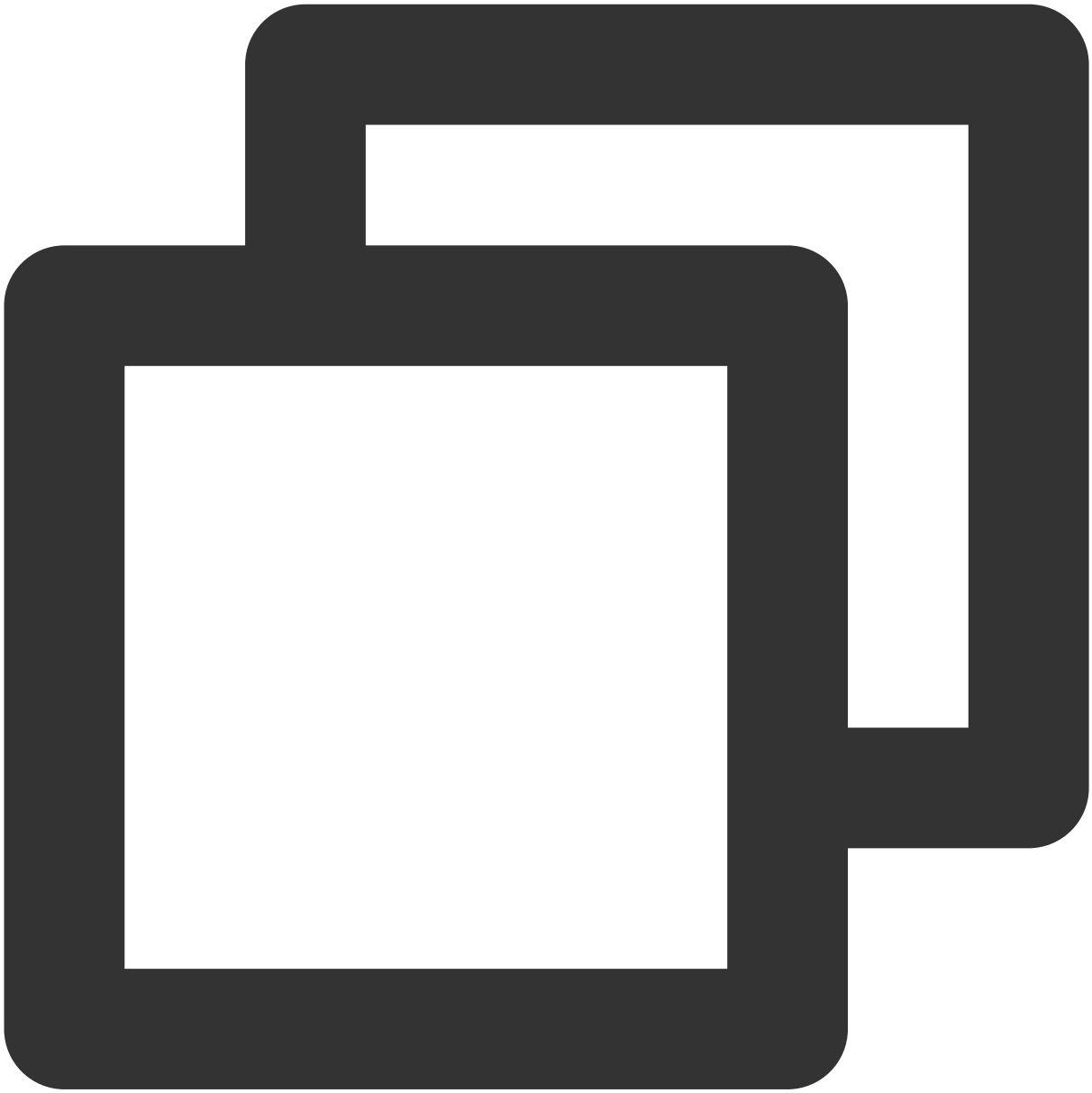

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <Message/>
        <Type>Workflow</Type>
        <Name>demo</Name>
        <JobId>b3deffea2f84911ec9cb15254008618d9</JobId>
        <State>Running</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
```

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```
        <Input>
            <Prefix>input</Prefix>
        </Input>
        <Operation>
            <TimeInterval>
                <Start>2022-02-01T12:00:00+0800</Start>
                <End>2022-05-01T12:00:00+0800</End>
            </TimeInterval>
            <WorkflowIds>w7476ff3564ee45b7b490d64bccaba6cc</WorkflowIds>
        </Operation>
    </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
JobsDetail	Response	Job details	Container

`JobsDetail`
has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is returned only if `State` is `Failed`	String
Message	Response.JobsDetail	Error message, which is returned only if `State` is `Failed`	String
Type	Response.JobsDetail	Batch operation job type	String
Name	Response.JobsDetail	Job name	String
JobId	Response.JobsDetail	Job ID	String
State	Response.JobsDetail	Job status. Valid values: `Submitted` ,	String

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		`Running` , `Success` , `Failed` , `Pause` , `Cancel` .	
CreationTime	Response.JobsDetail	Job creation time	String
StartTime	Response.JobsDetail	Job start time	String
EndTime	Response.JobsDetail	Job end time	String
Input	Response.JobsDetail	Same as `Request.Input` in the request	Container
Operation	Response.JobsDetail	Same as `Request.Operation` in the request	Container

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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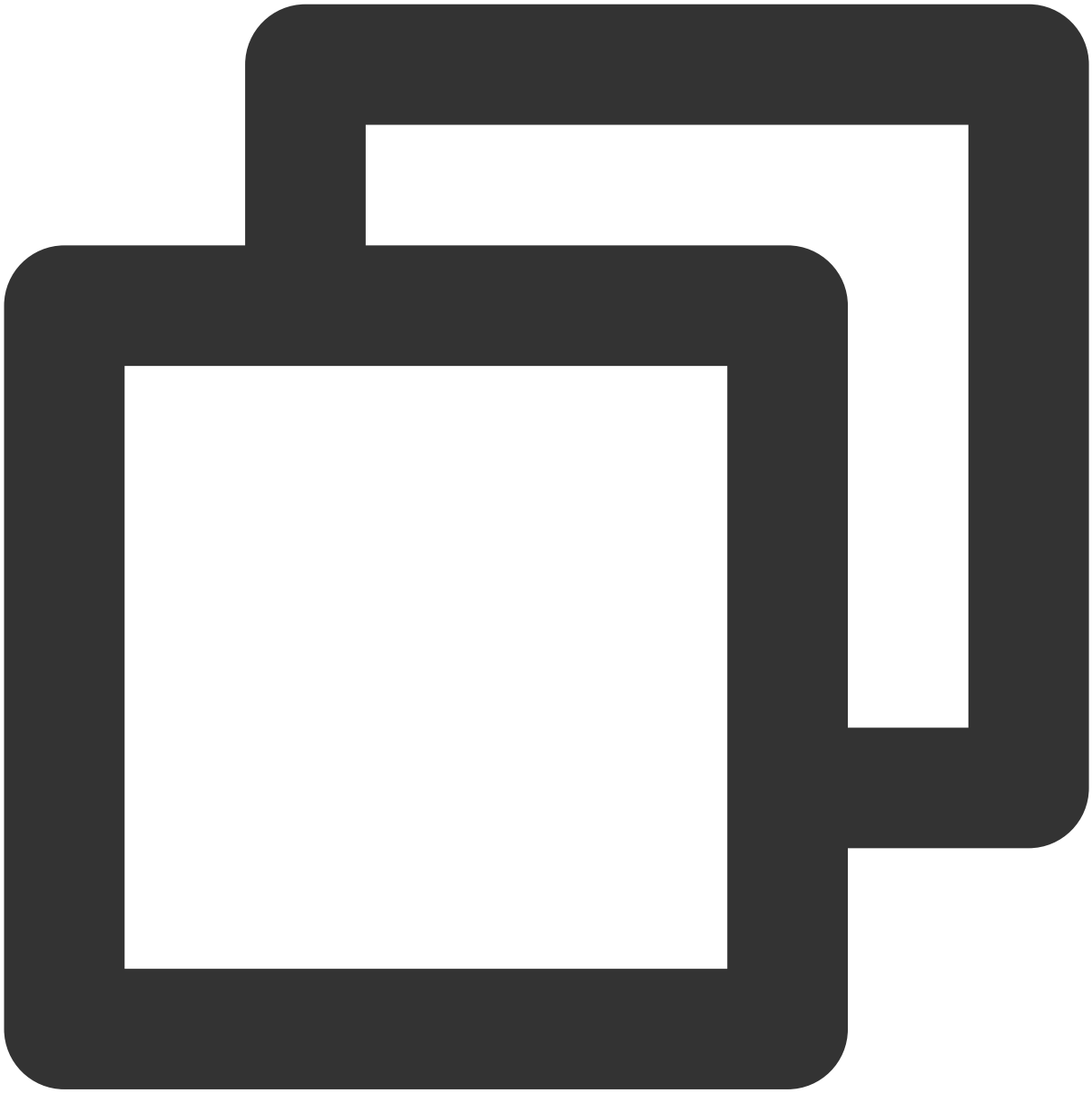

```
POST /inventorytriggerjob HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Name>demo</Name>
    <Type>Workflow</Name>
    <Input>
        <Prefix>input</Prefix>
```

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```
    </Input>
    <Operation>
        <TimeInterval>
            <Start>2022-02-01T12:00:00+0800</Start>
            <End>2022-05-01T12:00:00+0800</End>
        </TimeInterval>
        <WorkflowIds>w7476ff3564ee45b7b490d64bccaba6cc</WorkflowIds>
    </Operation>
</Request>
```

Response

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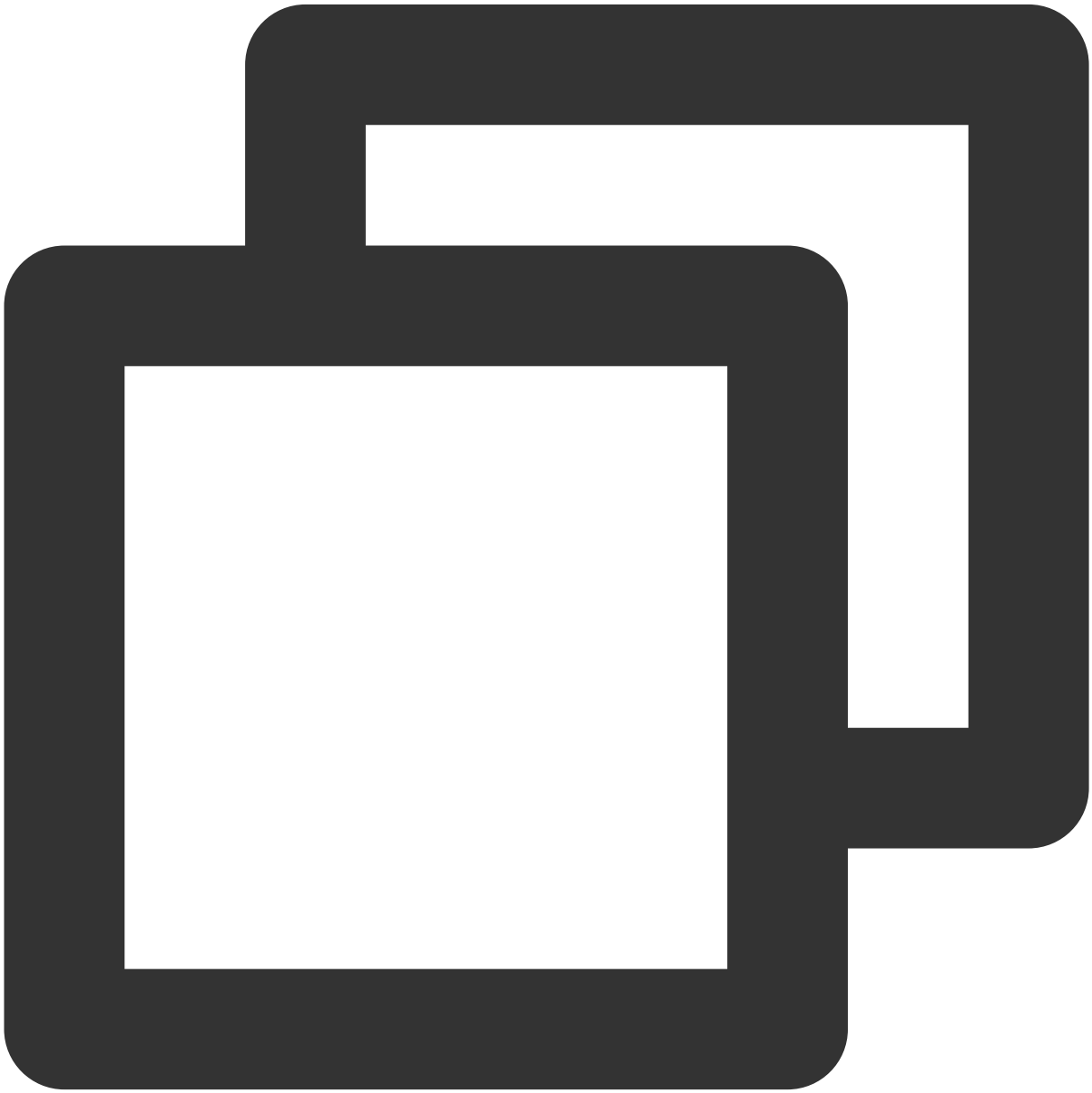

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <JobsDetail>
        <Code>Success</Code>
```

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```
        <Type>Workflow</Type>
        <Message/>
        <Name>demo</Name>
        <JobId>b3deffea2f84911ec9cb15254008618d9</JobId>
        <State>Running</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <Input>
            <Prefix>input</Prefix>
        </Input>
        <Operation>
            <TimeInterval>
                <Start>2022-02-01T12:00:00+0800</Start>
                <End>2022-05-01T12:00:00+0800</End>
            </TimeInterval>
            <WorkflowIds>w7476ff3564ee45b7b490d64bccaba6cc</WorkflowIds>
        </Operation>
    </JobsDetail>
</Response>
```

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Canceling Job

Last updated：2024-06-12 16:01:53

Feature Description

This API is used to cancel a batch data processing job.

Request

Sample request

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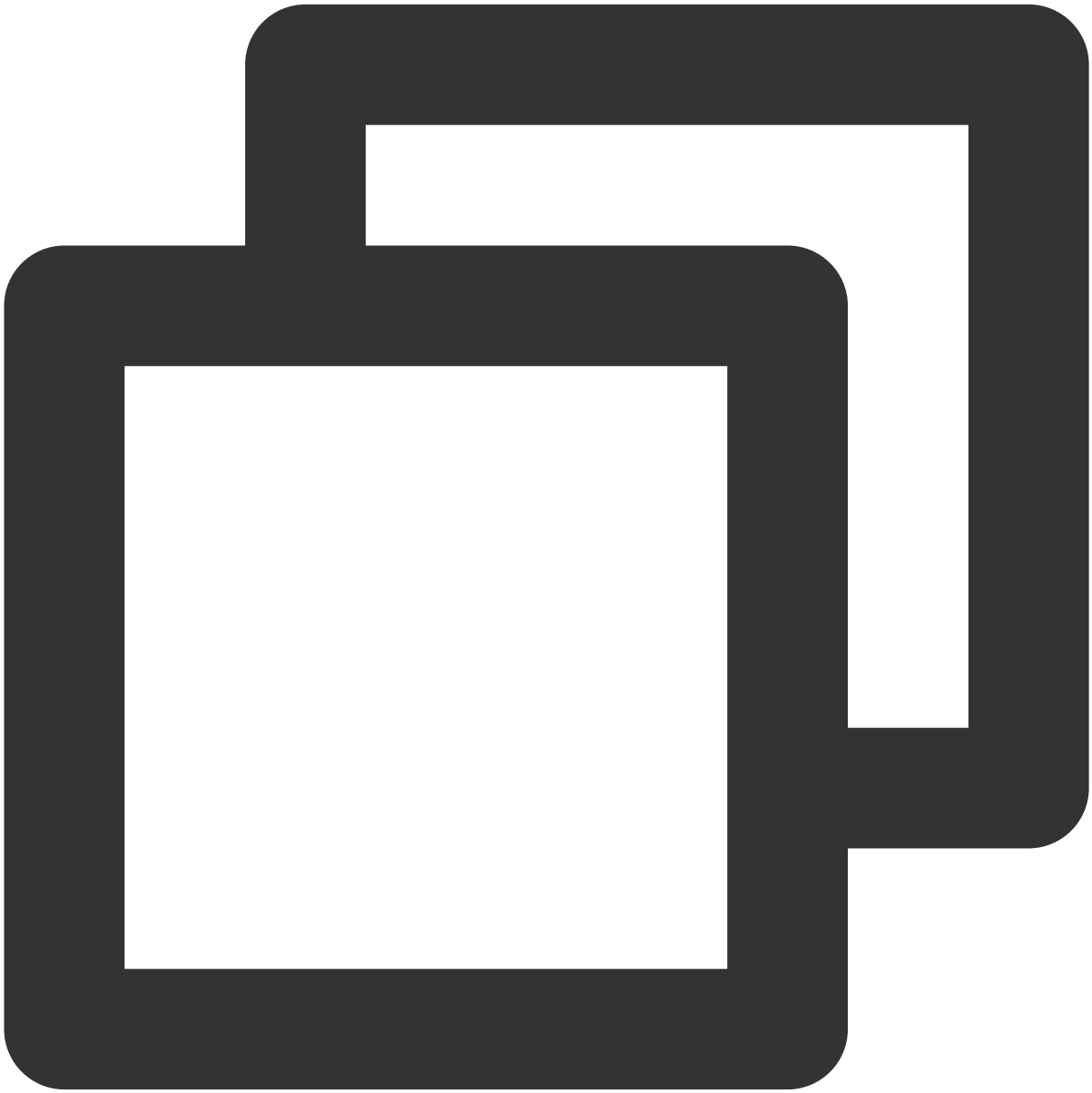

```
PUT /inventorytriggerjob/<jobId>?cancel HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

This request has no response body.

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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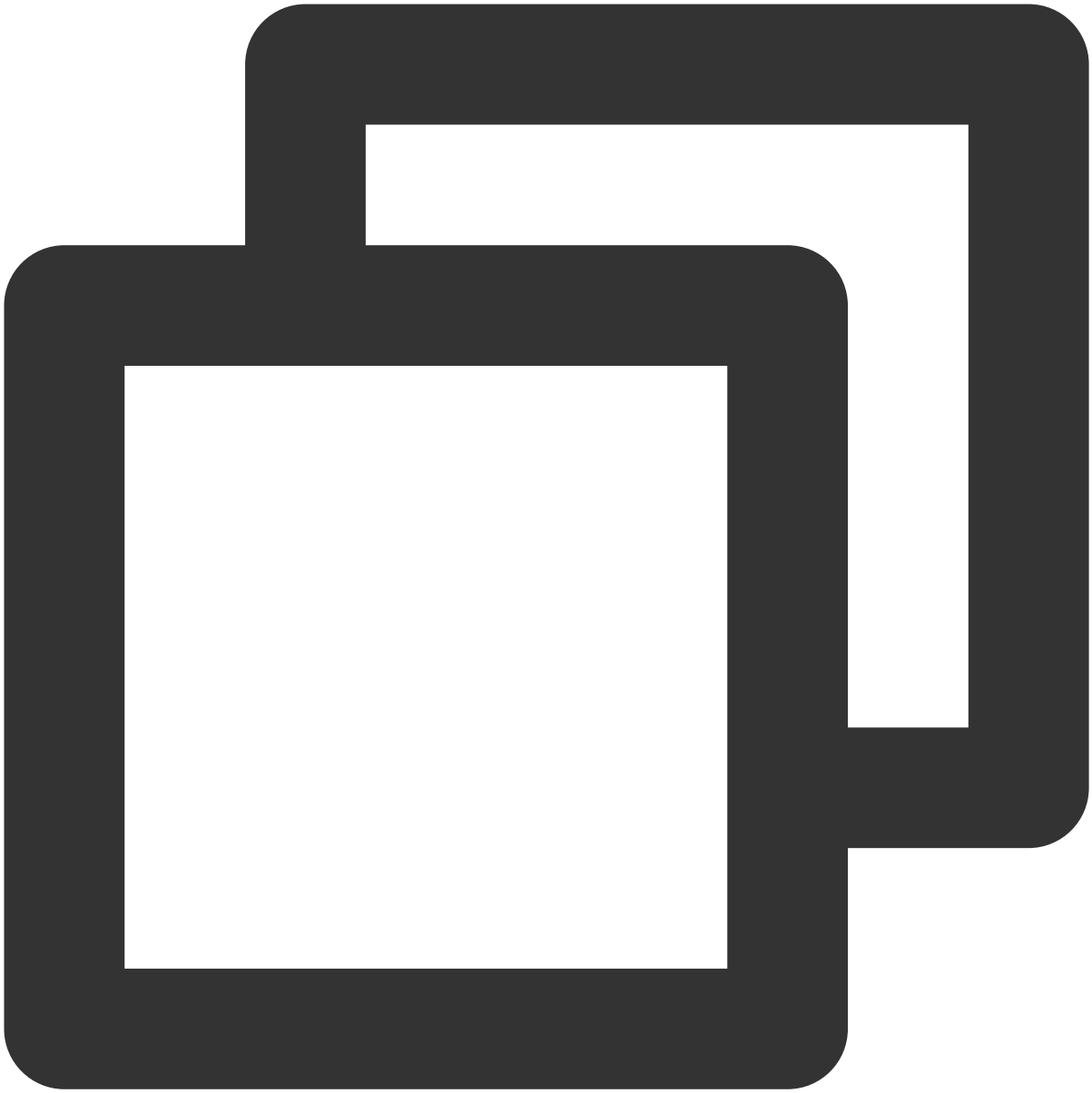

```
PUT /inventorytriggerjob/b-xxx-xxx-xxx-xxxx?cancel HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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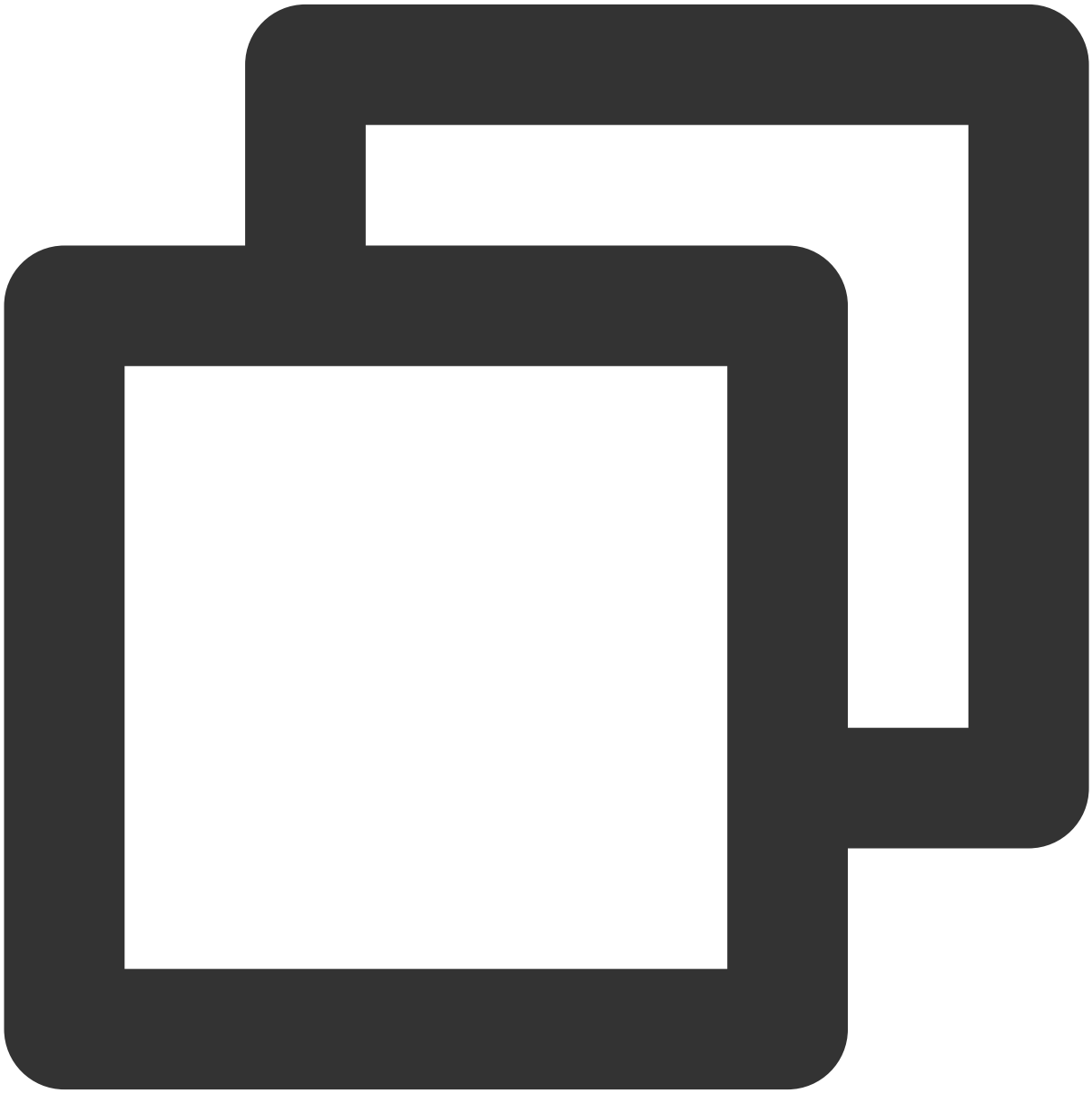

```
HTTP/1.1 200 OK
Content-Length: 0
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=
```

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Querying Job

Last updated：2024-06-12 16:01:53

Feature Description

This API is used to query a batch data processing job.

Request

Sample request

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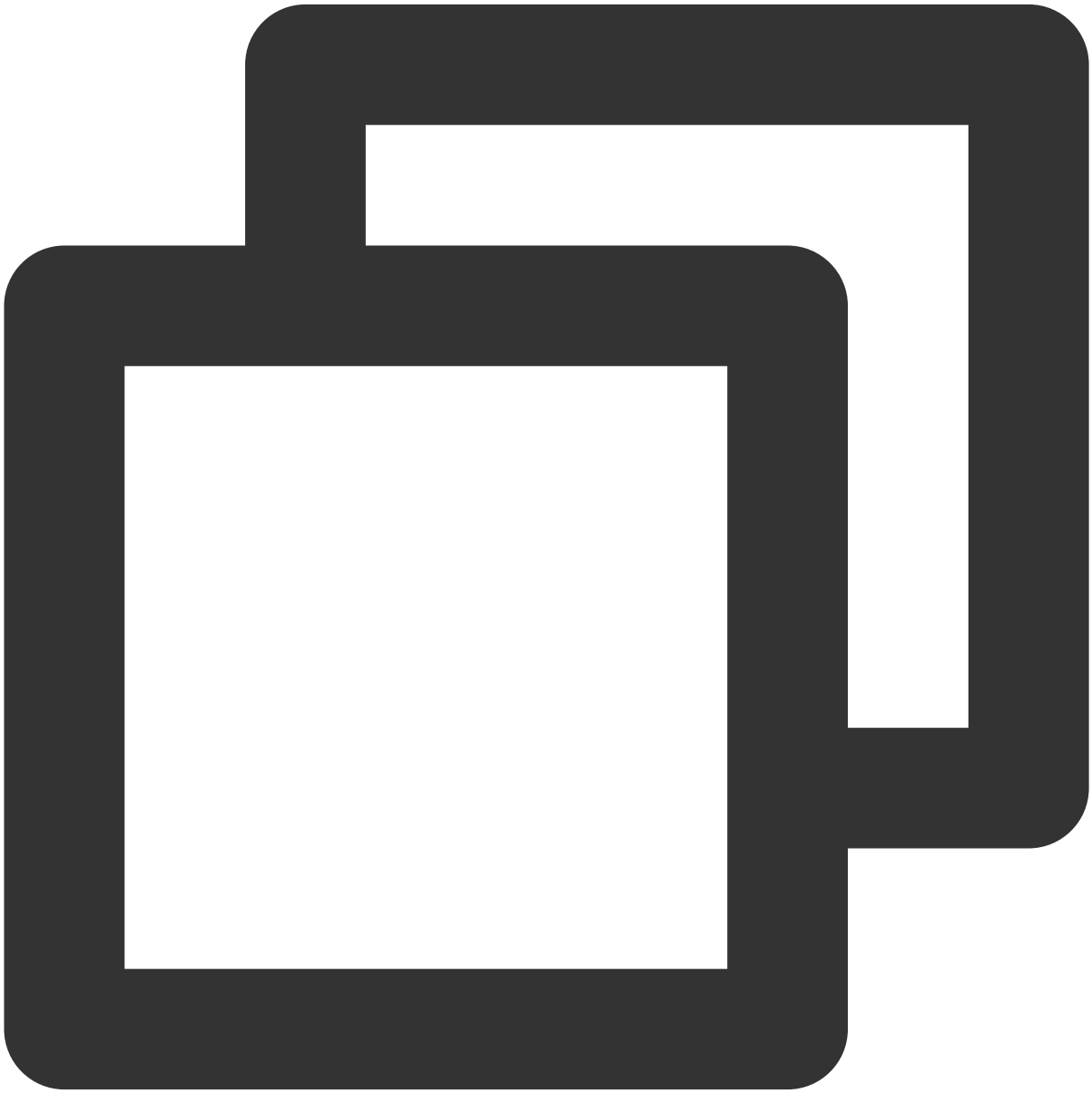

```
GET /inventorytriggerjob/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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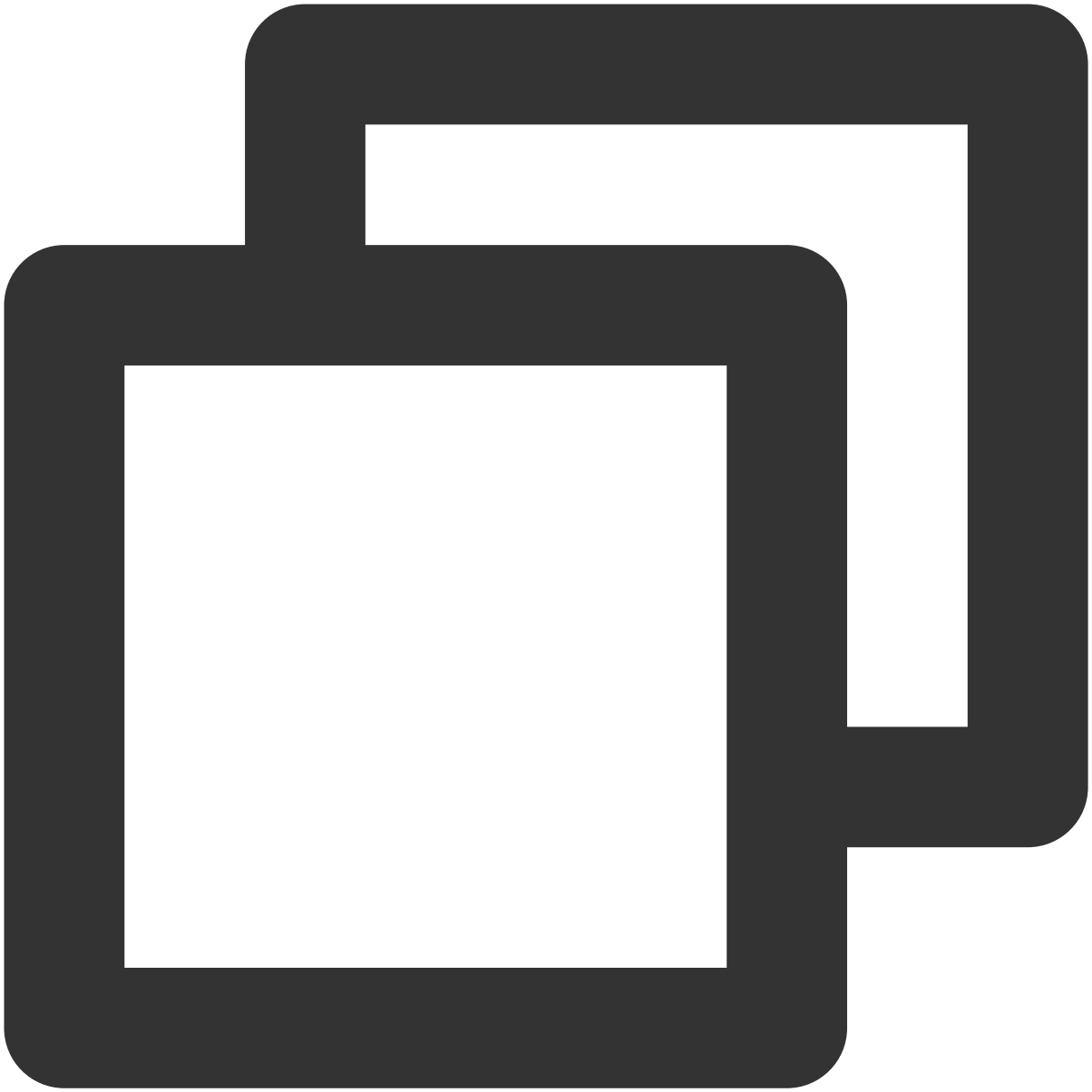

```
<Response>
    <RequestId><RequestId>
    <JobsDetail>
    ...
    </JobsDetail>
    <NonExistJobIds></NonExistJobIds>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type

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Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
JobsDetail	Response	Job details	Container
NonExistJobIds	Response	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String

The content of `JobsDetail` varies by triggering method. For more information, see the following documents:

Triggering Job (Workflow)

Triggering Job (Independent Node)

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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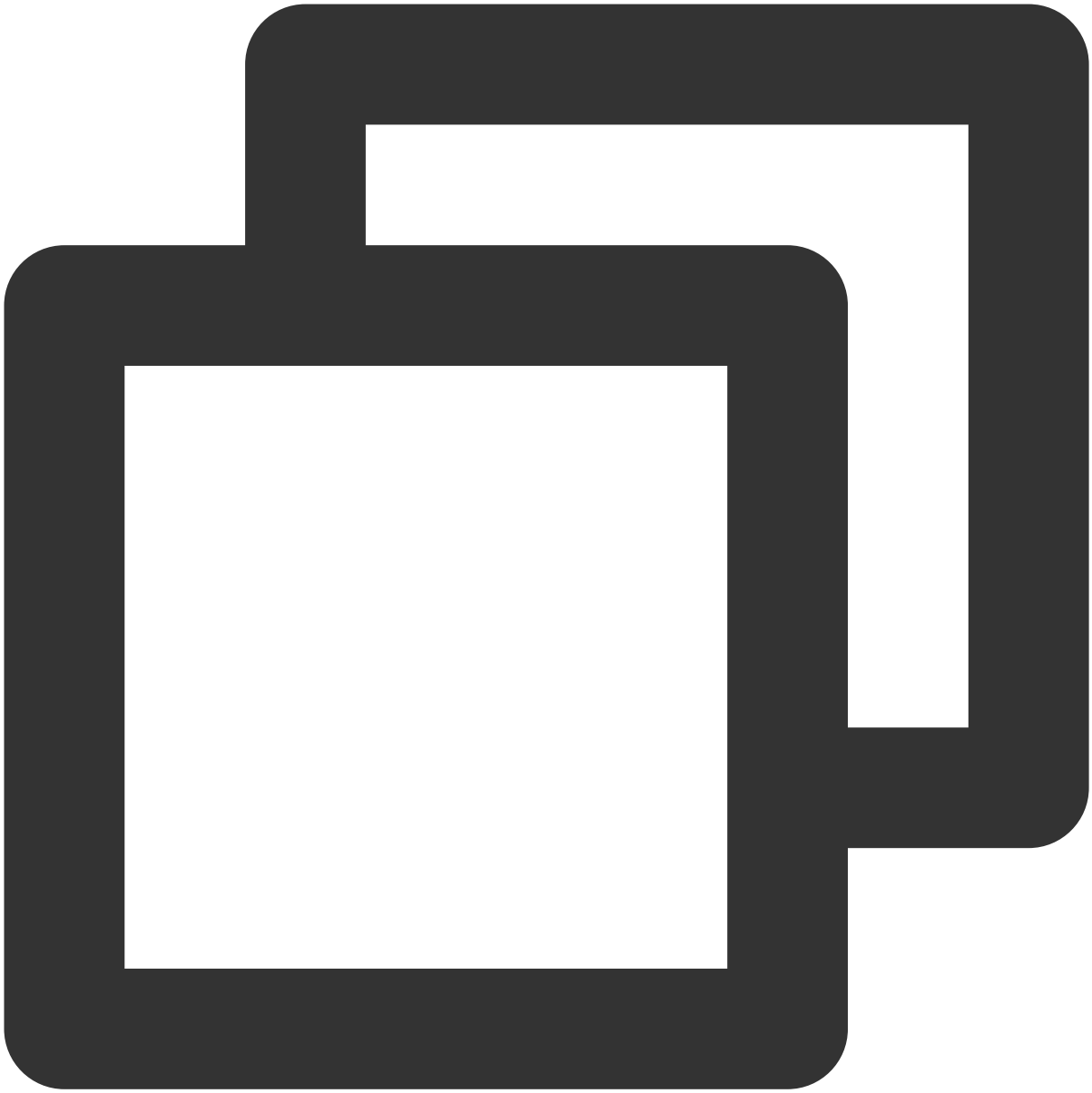

```
GET /inventorytriggerjob/b3deffea2f84911ec9cb15254008618d9 HTTP/1.1
Accept: */*
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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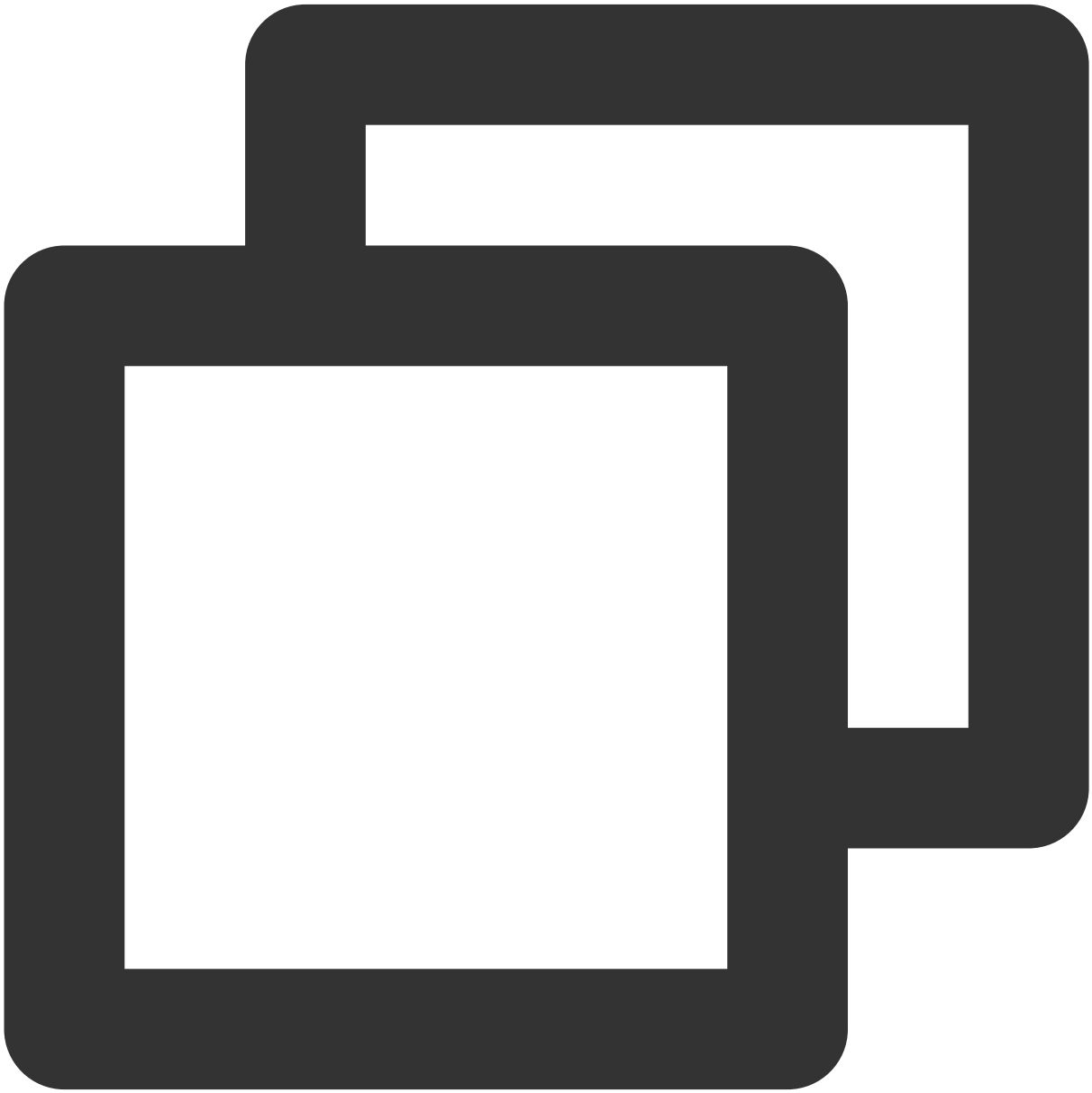

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NjJiZDU1ZmZfOTBmYTUwNjRfNzdjY18xYQ==

<Response>
    <RequestId>NjJiZDU1ZmZfOTBmYTUwNjRfNzdjY18xYQ==</RequestId>
    <JobsDetail>
```

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```
        <Code>Success</Code>
        <Type>Workflow</Type>
        <Message/>
        <Name>demo</Name>
        <JobId>b3deffea2f84911ec9cb15254008618d9</JobId>
        <State>Running</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <Input>
            <Prefix>input</Prefix>
        </Input>
        <Operation>
            <TimeInterval>
                <Start>2022-02-01T12:00:00+0800</Start>
                <End>2022-05-01T12:00:00+0800</End>
            </TimeInterval>
            <WorkflowIds>w7476ff3564ee45b7b490d64bccaba6cc</WorkflowIds>
        </Operation>
    </JobsDetail>
</Response>
```

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Pulling Jobs in Batches

Last updated：2024-06-12 16:01:53

Feature Description

This API is used to get the list of batch data processing jobs.

Request

Sample request

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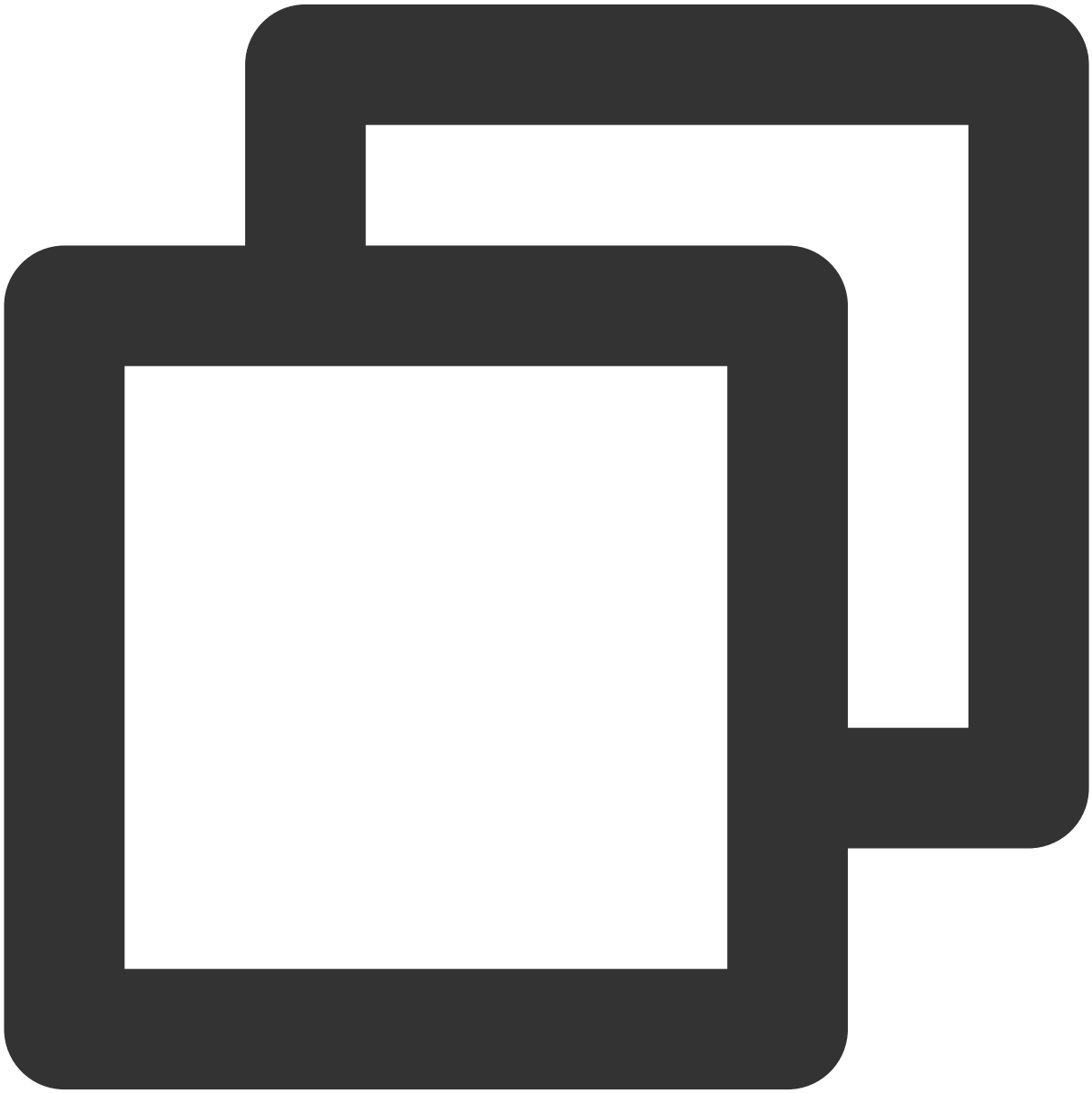

```
GET /inventorytriggerjob?size=&states=&startCreationTime=&endCreationTime= HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request does not have a request body.

Request parameters

The parameters are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
nextToken	None	Context token for pagination.	String	No
size	None	Maximum number of jobs that can be pulled. The default value is 10. The maximum value is 100.	Integer	No
type	None	Type of the batch jobs to be obtained. Valid values: `Workflow`, `Job`.	String	No
orderByTime	None	`Desc` (default) or `Asc`	String	No
States	None	Status of the jobs to pull. If you enter multiple job statuses, separate them by comma. Valid values: `All` (default), `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String	No
startCreationTime	None	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String	No
endCreationTime	None	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String	No
workflowId	None	Workflow ID	String	No
jobId	None	Batch data processing job ID	String	No
name	None	Batch data processing job name	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

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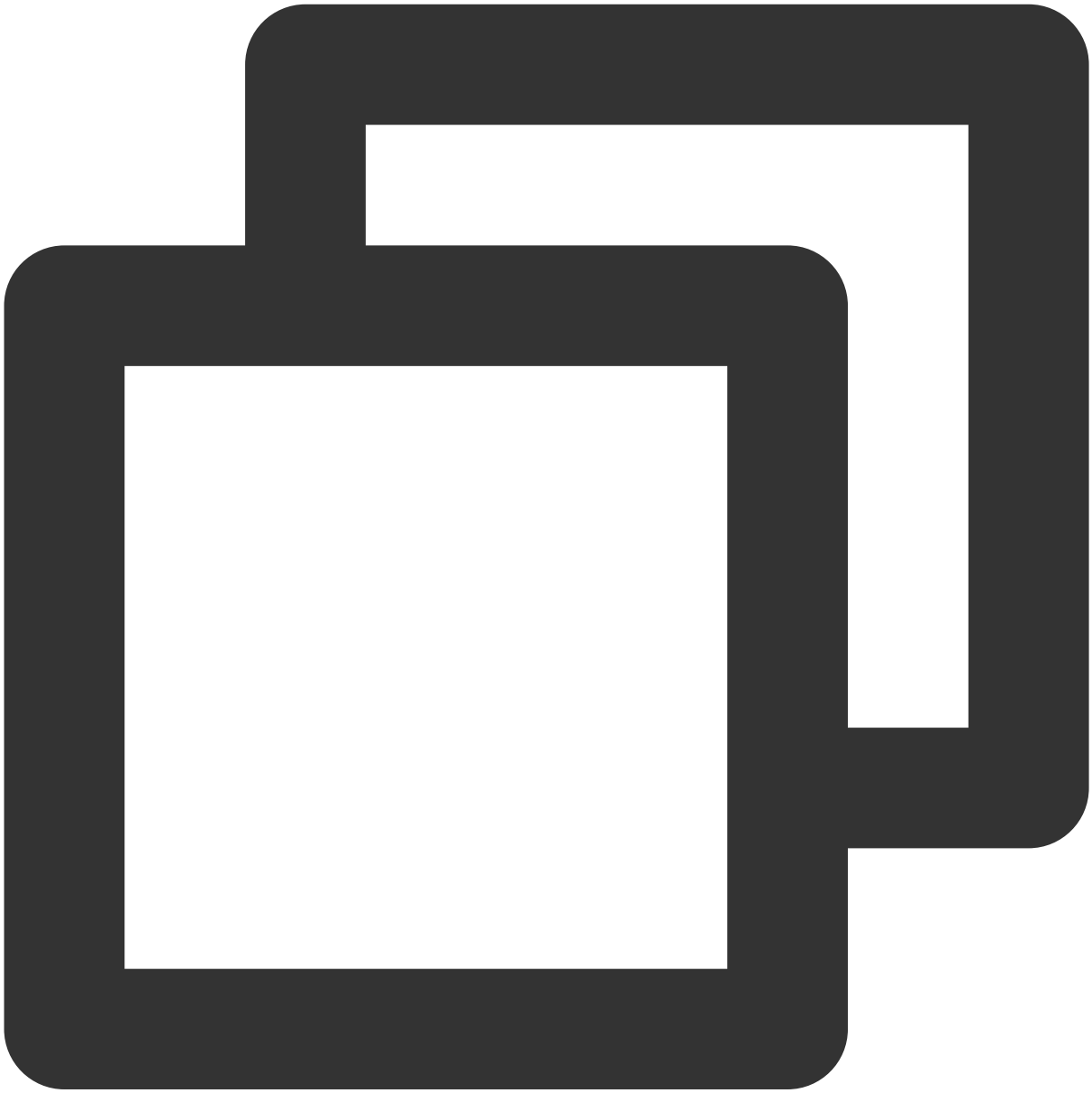
Response body

The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <RequestId></RequestId>
    <JobsDetail>
    ...
    </JobsDetail>
    <NextToken></NextToken>
</Response>
```

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The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	Unique ID of the request	String
JobsDetail	Response	Job details	Container array
NextToken	Response	Context token for pagination	String

The content of `JobsDetail` varies by triggering method. For more information, see the following documents:

Triggering Job (Workflow)

Triggering Job (Independent Node)

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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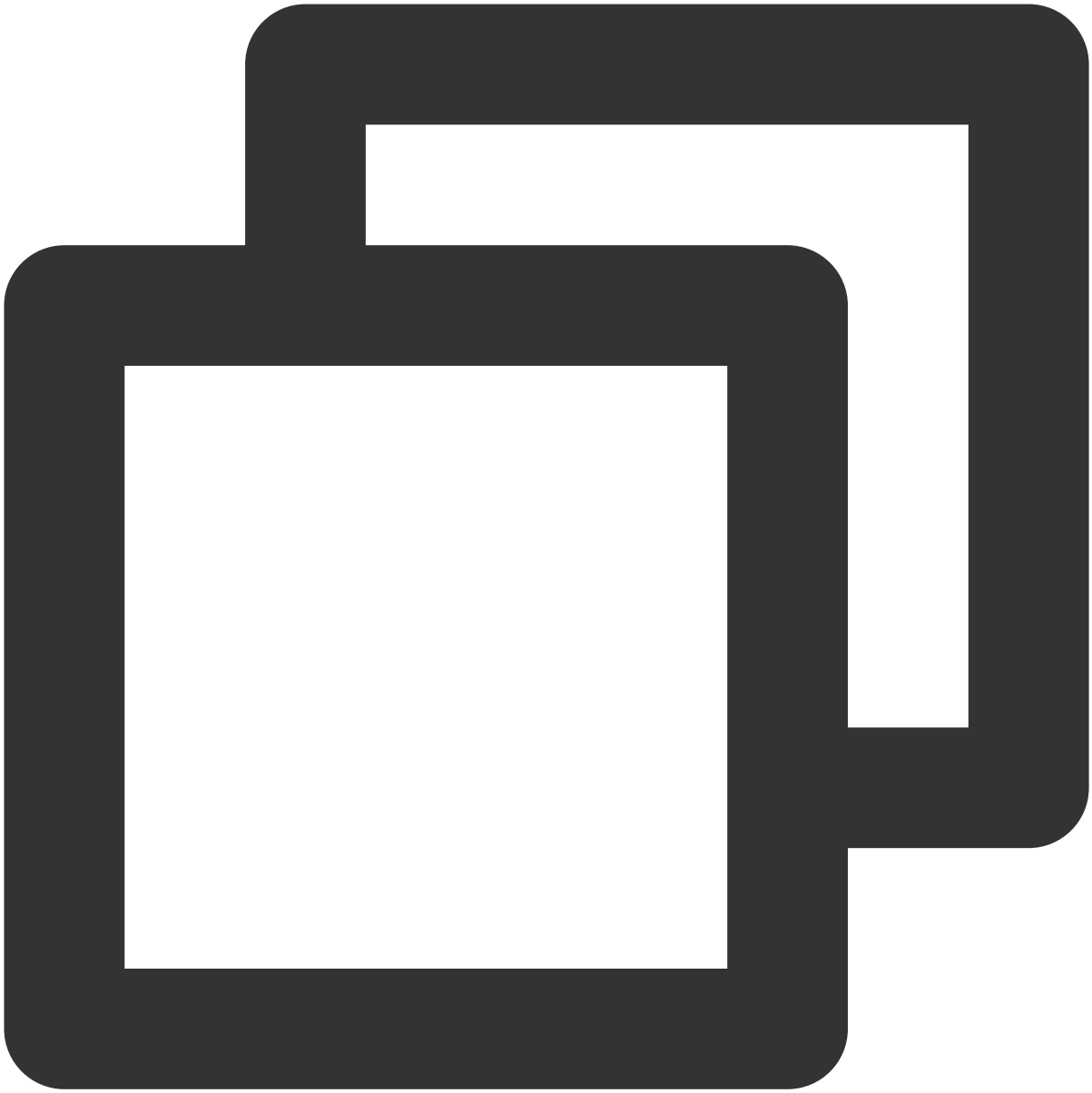

```
GET /inventorytriggerjob HTTP/1.1
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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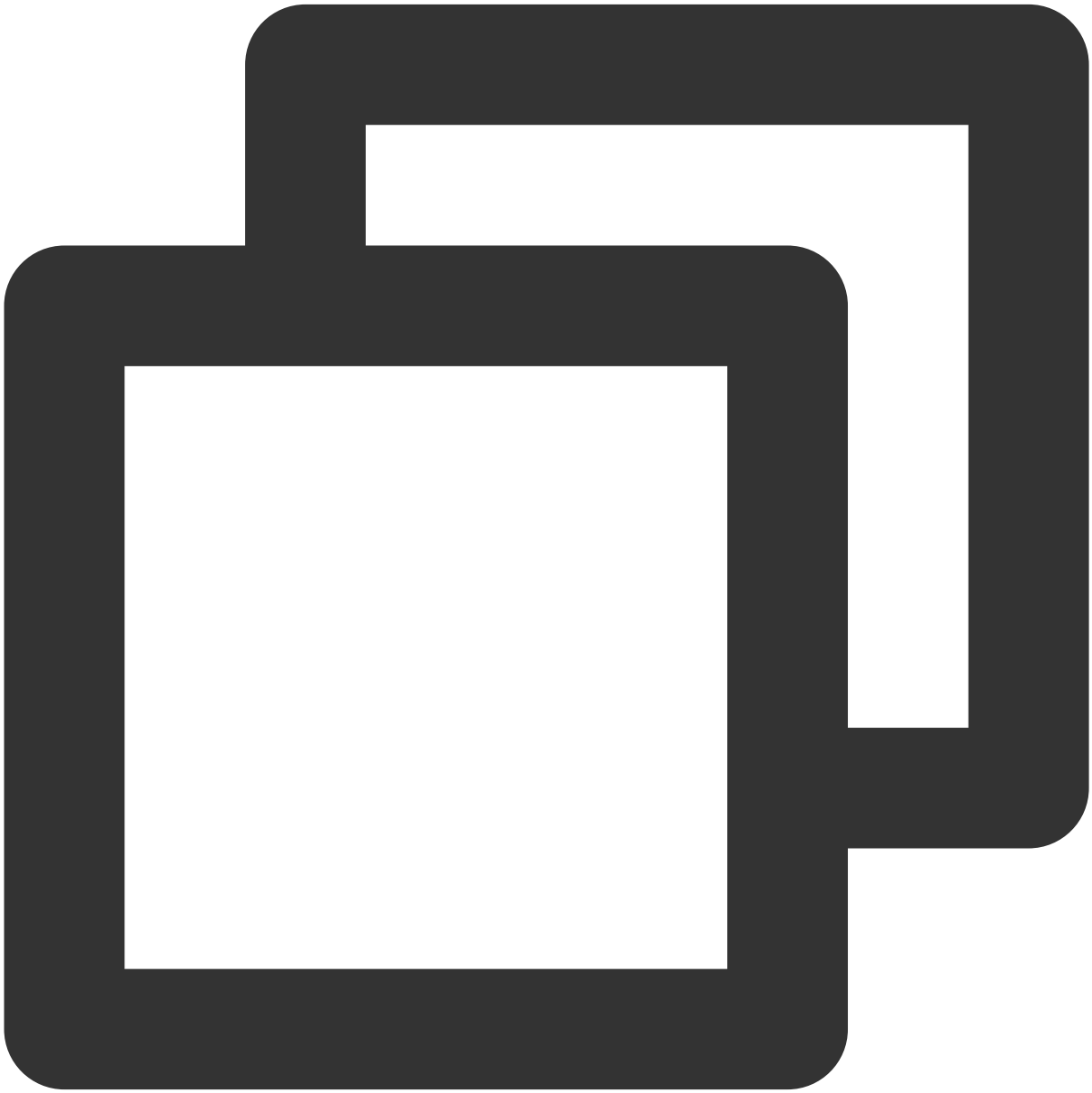

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Mon, 28 Jun 2022 15:23:12 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzh****=

<Response>
    <RequestId>NjJiZDU1ZmZfOTBmYTUwNjRfNzdjY18xYQ==</RequestId>
    <JobsDetail>
```

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```
        <Code>Success</Code>
        <Type>Workflow</Type>
        <Message/>
        <Name>demo</Name>
        <JobId>b3deffea2f84911ec9cb15254008618d9</JobId>
        <State>Running</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>-</StartTime>
        <EndTime>-</EndTime>
        <Input>
            <Prefix>input</Prefix>
        </Input>
        <Operation>
            <TimeInterval>
                <Start>2022-02-01T12:00:00+0800</Start>
                <End>2022-05-01T12:00:00+0800</End>
            </TimeInterval>
            <WorkflowIds>w7476ff3564ee45b7b490d64bccaba6cc</WorkflowIds>
        </Operation>
    </JobsDetail>
    <JobsDetail>
        <Code>Success</Code>
        <Type>Job</Type>
        <Message/>
        <Name>demo</Name>
        <JobId>be8f65004eb8511eaaed4f377124a303c</JobId>
        <State>Running</State>
        <CreationTime>2022-06-27T15:23:10+0800</CreationTime>
        <StartTime>2022-06-27T15:23:11+0800</StartTime>
        <EndTime>2022-06-27T15:25:10+0800</EndTime>
        <Input>
            <Prefix>input</Prefix>
        </Input>
        <Operation>
            <TimeInterval>
                <Start>2022-02-01T12:00:00+0800</Start>
                <End>2022-05-01T12:00:00+0800</End>
            </TimeInterval>
            <QueueId>p893bcda225bf4945a378da6662e81a89</QueueId>
            <UserData>this is my inventorytriggerjob</UserData>
            <CallBack>https://www.callback.com</CallBack>
            <JobParam>
                <TemplateId>t1460606b9752148c4ab182f55163ba7cd</TemplateId>
            </JobParam>
            <Output>
                <Region>ap-chongqing</Region>
                <Bucket>test-1234567890</Bucket>
```

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```
                <Object>output/${InventoryTriggerJobId}/out.mp4</Object>
            </Output>
            <JobLevel>0</JobLevel>
        </Operation>
    </JobsDetail>
    <NextToken>25</NextToken>
</Response>
```

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Callback Content
Workflow Callback Content

Last updated：2024-06-12 16:01:53

Feature Description

CI supports user-defined callback URLs. With a workflow enabled, each time after an instance is executed, the system sends an HTTP POST request whose body contains notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the workflow instance so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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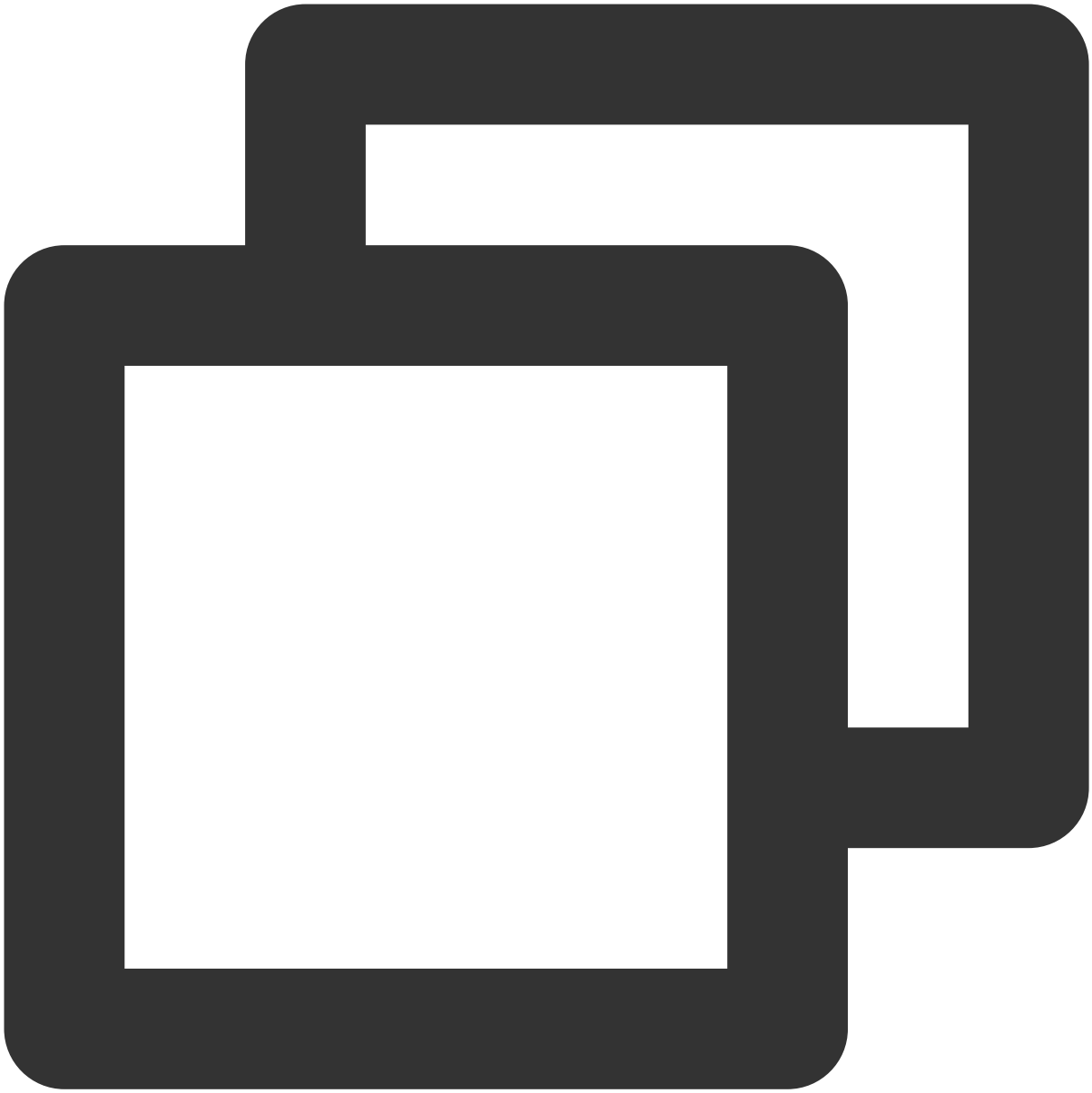

```
<Response>
        <WorkflowExecution>
            <RunId></RunId>
            <BucketId></BucketId>
            <Object></Object>
            <CosHeaders>
                <Key></Key>
                <Value></Value>
            </CosHeaders>
            <WorkflowId></WorkflowId>
            <WorkflowName></WorkflowName>
```

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```
            <CreateTime></CreateTime>
            <State></State>
            <Tasks>
                    <Type></Type>
                    <CreateTime></CreateTime>
                    <EndTime></EndTime>
                    <State></State>
                    <JobId></JobId>
                    <Name></Name>
                    <TemplateId></TemplateId>
                    <TemplateName></TemplateName>
            </Tasks>
        </WorkflowExecution>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
WorkflowExecution	Response	Workflow details	Container

`WorkflowExecution` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.WorkflowExecution	Workflow instance ID	String
BucketId	Response.WorkflowExecution	Bucket where the processed file belongs	String
Object	Response.WorkflowExecution	Name of the file processed by the instance	String
CosHeaders	Response.WorkflowExecution	Custom header list configured during object upload. If no custom header list is configured, this node will not be included.	Container
State	Response.WorkflowExecution	Instance status. Valid values: Success, Failed. As long as one job is in the `Failed` status, the instance will be regarded as `Failed` .	String

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CreateTime	Response.WorkflowExecution	Instance creation time	String
WorkflowId	Response.WorkflowExecution	Workflow ID	String
WorkflowName	Response.WorkflowExecution	Workflow name	String
Tasks	Response.WorkflowExecution	Job information list	Container

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.WorkflowExecution.CosHeaders	Name of the custom header	String
Value	Response.WorkflowExecution.CosHeaders	Value of the custom header	String

`Tasks` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Type	Response.WorkflowExecution.Tasks	Job type. Valid values: Snapshot, Transcode, SmartCover, Concat, etc.	String
Createtime	Response.WorkflowExecution.Tasks	Job creation time	String
EndTime	Response.WorkflowExecution.Tasks	Job completion time	String
State	Response.WorkflowExecution.Tasks	Job status. Valid values: Success, Failed, etc.	String
JobId	Response.WorkflowExecution.Tasks	Job ID	String
Name	Response.WorkflowExecution.Tasks	Name of the job node in the workflow	String
TemplateId	Response.WorkflowExecution.Tasks	ID of the template used by the job	String
TemplateName	Response.WorkflowExecution.Tasks	Name of the template used by the job	String

Use Cases

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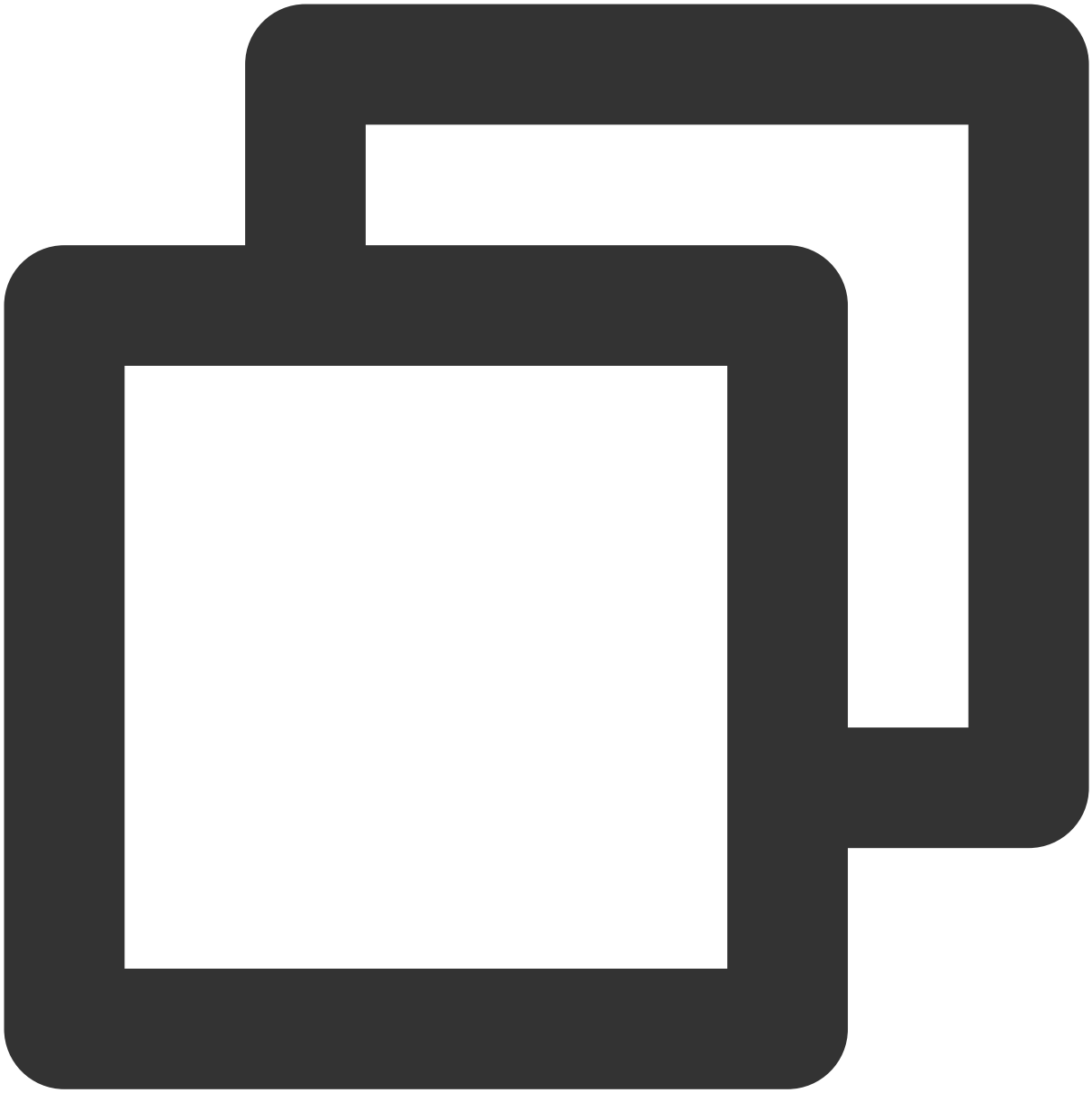

```
<Response>
    <WorkflowExecution>
        <RunId>ie4d9187d35dc11eb9cec525400860000</RunId>
        <BucketId>examplebucket-1250000000</BucketId>
        <Object>0000.mp4</Object>
        <CosHeaders>
            <Key>x-cos-meta-id</Key>
            <Value>testid</Value>
        </CosHeaders>
        <WorkflowId>w2b22307fb0e44107bc8ffe71e1d20000</WorkflowId>
        <WorkflowName>example</WorkflowName>
```

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```
        <CreateTime>2020-12-01 11:00:41+0800</CreateTime>
        <State>Success</State>
        <Tasks>
            <Type>Transcode</Type>
            <CreateTime>2020-12-01 11:00:42+0800</CreateTime>
            <EndTime>2020-12-01 11:00:45+0800</EndTime>
            <State>Success</State>
            <JobId>je5195f3e35dc11ebbe6fed17a7c10000</JobId>
            <Name>Transcode_1600413767353</Name>
            <TemplateId>t182c0ca7d91ca40969a3fc97c5559091a</TemplateId>
            <TemplateName>example</TemplateName>
        </Tasks>
        <Tasks>
            <Type>Transcode</Type>
            <CreateTime>2020-12-01 11:00:42+0800</CreateTime>
            <EndTime>2020-12-01 11:00:45+0800</EndTime>
            <State>Success</State>
            <JobId>je55e922035dc11ebbe6fed17a7c10000</JobId>
            <Name>Transcode_1600413767444</Name>
            <TemplateId>t182c0ca7d91ca40969a3fc97c5559091b</TemplateId>
            <TemplateName>example</TemplateName>
        </Tasks>
    </WorkflowExecution>
</Response>
```

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Job Callback Content

Last updated：2024-06-12 16:01:53

Feature Description

CI supports user-defined callback URLs. After a job is completed, the system sends an HTTP POST request whose body contains notification content to a user-defined callback URL. You can use the configured callback URL to learn about the processing progress and status of the job so that you can perform other operations as needed.

Callback Content

After the job is completed, the system sends the callback content to the configured callback URL. The response body is returned as **application/xml** data. The following contains all the nodes:

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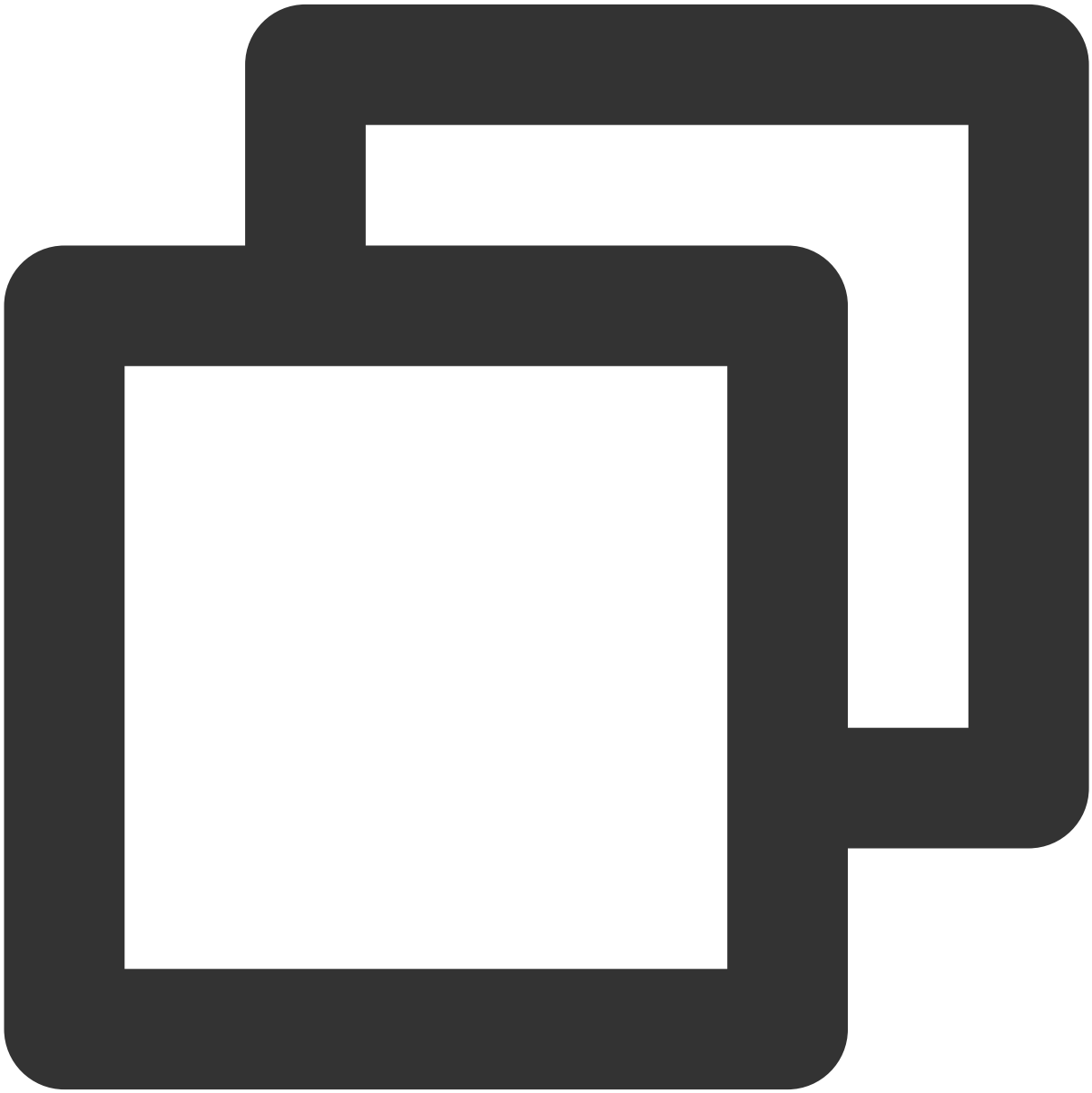

```
<Response>
        <JobsDetail>
            <Code></Code>
            <Message></Message>
            <JobId></JobId>
            <State></State>
            <CreationTime></CreationTime>
            <EndTime></EndTime>
            <QueueId></QueueId>
            <Tag></Tag>
            <Input>
```

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```
                <CosHeaders></CosHeaders>
                <Region></Region>
                <BucketId></BucketId>
                <Object></Object>
            </Input>
            <Operation>
                <TemplateId></TemplateId>
                <TemplateName></TemplateName>
                <MediaResult></MediaResult>
                <Output>
                   <Region></Region>
                   <Bucket></Bucket>
                   <Object></Object>
                </Output>
                <MediaInfo>
                </MeidaInfo>
            </Operation>
            <Workflow>
                <RunId></RunId>
                <WorkflowId></WorkflowId>
                <WorkflowName></WorkflowName>
                <Name></Name>
            </Workflow>
        </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Response container	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which is meaningful only if `State` is `Failed`	String
Message	Response.JobsDetail	Error description, which is meaningful only if	String

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		`State` is `Failed`	
JobId	Response.JobsDetail	Job ID	String
Tag	Response.JobsDetail	Job type	String
State	Response.JobsDetail	Job status. Valid values: Success, Failed	String
CreationTime	Response.JobsDetail	Job creation time	String
EndTime	Response.JobsDetail	Job end time	String
QueueId	Response.JobsDetail	Queue ID of the job	String
Input	Response.JobsDetail	Input resource address of the job	Container
Operation	Response.JobsDetail	Operation rule	Container
Workflow	Response.JobsDetail	Workflow information of the job	Container

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
CosHeaders	Response.JobsDetail.Input	Custom header information of the input file in array format. There can be multiple headers. This node is included only for workflow-triggered jobs.	Container
Object	Response.JobsDetail.Input	Name of the input file, i.e., object key (ObjectKey) in COS	String
Region	Response.JobsDetail.Input	Region of the input bucket	String
BucketId	Response.JobsDetail.Input	ID of the input bucket	String

`CosHeaders` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Key	Response.JobsDetail.Input.CosHeaders	Name of the custom header	String
Value	Response.JobsDetail.Input.CosHeaders	Value of the custom header	String

`Operation` has the following sub-nodes:

Node Name	Parent Node	Description	Type

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(Keyword)			
TemplateId	Response.JobsDetail.Operation	Job template ID	String
TemplateName	Response.JobsDetail.Operation	Job template name	String
Output	Response.JobsDetail.Operation	File output address	Container
MediaResult	Response.JobsDetail.Operation	Job output information	Container
MediaInfo	Response.JobsDetail.Operation	Transcoding output video information. This node will not be returned when there is no output video.	Container

`Output` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.Operation.Output	Bucket region	String
Bucket	Response.Operation.Output	Result storage bucket	String
Object	Response.Operation.Output	Result filename	String

`MediaResult` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
OutputFile	Response.Operation.MediaResult	Information of the actual output file	Container

`OutputFile` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Region	Response.Operation.MediaResult.OutputFile	Bucket region	String
Bucket	Response.Operation.MediaResult.OutputFile	Result storage bucket	String
ObjectPrefix	Response.Operation.MediaResult.OutputFile	Output filename prefix	String
ObjectName	Response.Operation.MediaResult.OutputFile	List of output filenames in array format	String

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Note:

The actual output file is the `StringConcat(ObjectPrefix,ObjectName)` file in the bucket specified by `Bucket` in the region specified by `Region` .

`Workflow` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RunId	Response.Workflow	Workflow instance ID	String
WorkflowId	Response.Workflow	Workflow ID	String
WorkflowName	Response.Workflow	Workflow name	String
Name	Response.Workflow	Workflow node name	String

`MediaInfo` has the following sub-nodes:

Same as the `Response.MediaInfo` node in the `GenerateMediaInfo` API.

Use Cases

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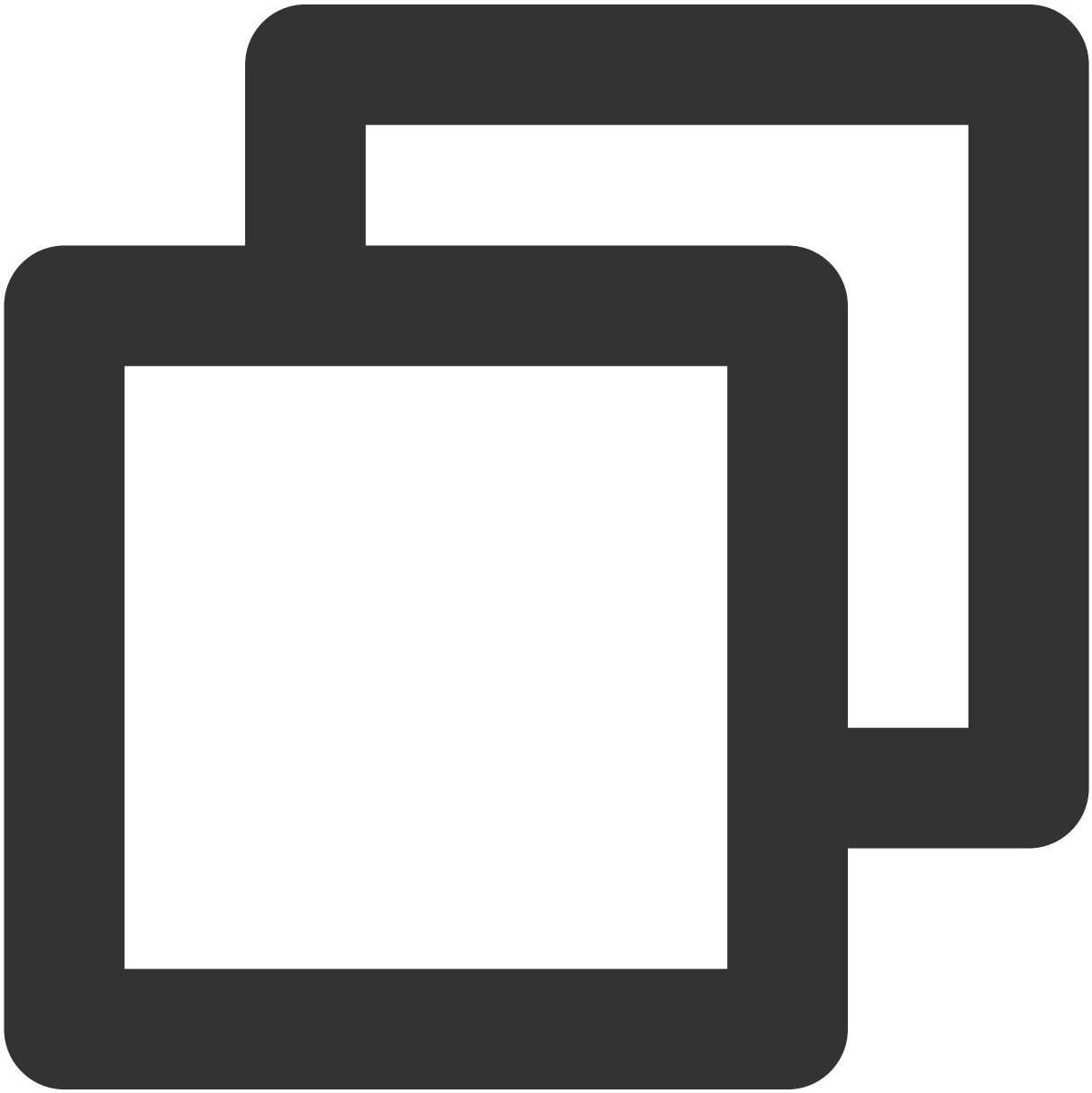

```
<Response>
    <JobsDetail>
        <Code>Success</Code>
        <CreationTime>2020-11-16T16:43:29+0800</CreationTime>
        <EndTime>2020-11-16T16:43:33+0800</EndTime>
        <Input>
            <CosHeaders>
                <Key>x-cos-meta-test</Key>
                <Value>testvalue</Value>
            </CosHeaders>
            <CosHeaders>
```

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```
                <Key>x-cos-meta-name</Key>
                <Value>xxxxxx</Value>
            </CosHeaders>
            <CosHeaders>
                <Key>x-cos-meta-age</Key>
                <Value>10</Value>
            </CosHeaders>
            <Object>1/2/3/4/5/xxx.mp4</Object>
            <Region>ap-beijing</Region>
            <BucketId>examplebucket-1250000000</BucketId>
        </Input>
        <JobId>jccddc41c27e711ebbff5874bc5b36868</JobId>
        <Message/>
        <Operation>
            <MediaResult>
                <OutputFile>
                    <Bucket>examplebucket-1250000000</Bucket>
                    <Md5Info>
                        <Md5>39ad161a7807240f4d6f94767e8e2f89</Md5>
                        <ObjectName>1/2/Conversion to MP4-xxx_iccba81fa27e711eb989d
                    </Md5Info>
                    <ObjectName>1/2/Conversion to MP4-xxx_iccba81fa27e711eb989d5254
                    <ObjectPrefix/>
                    <Region>ap-chongqing</Region>
                </OutputFile>
            </MediaResult>
            <Output>
                <Bucket>examplebucket-1250000000</Bucket>
                <Object>1/2/Conversion to mp4-xxx_iccba81fa27e711eb989d525400276c76
                <Region>ap-chongqing</Region>
            </Output>
            <TemplateId>t182c0ca7d91ca40969a3fc97c5559091a</TemplateId>
            <TemplateName>example</TemplateName>
        </Operation>
        <Workflow>
            <RunId>rccddc41c27e711ebbff5874bc5b36868</RunId>
            <WorkflowId>wccddc41c27e711ebbff5874bc5b36868</WorkflowId>
            <WorkflowName>workflow</WorkflowName>
            <Name>Transcode_1600413767444</Name>
        </Workflow>
        <QueueId>p791b0bca54ee44289f0d4b1d90796c4f</QueueId>
        <State>Success</State>
        <Tag>Transcode</Tag>
    </JobsDetail>
</Response>
```

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Appendix
Structure

Last updated：2024-06-12 16:01:53

MediaWorkflow_Topology_Nodes_Start_Input

Node Name (Keyword)	Description	Type	Required	Constraints
ObjectPrefix	Object prefix	String	Yes	None
QueueId	Queue ID	String	Yes	None
PicProcessQueueId	Image processing queue ID	String	Yes if there is an image processing node	None
SpeechRecognitionQueueId	Speech recognition queue ID	String	Yes if there is a speech recognition node	None
AIProcessQueueId	AI processing queue ID	String	Yes if there is an AI-based recognition node	None
NotifyConfig	Callback information. If none is specified, the queue callback information is used.	Container	No	None
ExtFilter	Filename extension filter.	Container	No	None

`NotifyConfig` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Default Value	Constraints
Url	Callback address	String	Yes	None	The callback address cannot be a private network address.

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Type	Callback type	String	Yes	None	Url: URL callback TDMQ: TDMQ message callback
Event	Callback information	String	Yes	None	TaskFinish: Job completed WorkflowFinish: Workflow completed You can configure multiple events separated by comma.
ResultFormat	Callback format	String	No	XML	XML JSON
MqRegion	TDMQ region	String	No	None	Yes if the callback type is TDMQ. For supported regions, see Request Domain Description.
MqMode	TDMQ mode	String	No	None	Yes if the callback type is TDMQ. Topic: Topic subscription Queue: Queue service
MqName	TDMQ topic name	String	No	None	Yes if the callback type is TDMQ.

`ExtFilter` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Default Value	Constraints
State	Switch.	String	No	Off	On/Off
Video	Require a video extension.	String	No	false	false/true
Audio	Require an audio extension.	String	No	false	false/true
Image	Require an image extension.	String	No	false	false/true
ContentType	Require a content type.	String	No	false	false/true

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Custom	Require a custom extension.	String	No	false	false/true
CustomExts	Custom extension.	String	No	None	Separate filename extensions by slash (/). Up to ten extensions are supported. If `Custom` is `true`, this parameter is required.
AllFile	All files	String	No	false	false/true

MediaWorkflow_Topology_Nodes_***_Operation_Output

Node Name (Keyword)	Description	Type	Required	Constraints
Region	Bucket region	String	Yes	None
Bucket	Bucket name	String	Yes	None
Object	Result filename	String	Yes	If the workflow node type is `Snapshot` or `SmartCover`, and there are more than one result file, `${Number} $` must be included. If the workflow node type is `Segment`, `Duration` is specified, and `Format` is not `HLS` or `m3u8`, `${Number}` must be included.
SpriteObject	Image sprite name	String	No	If the workflow node type is `Snapshot` and the image sprite feature is enabled, this field is required.
AuObject	Voice result filename	String	No	If the workflow node type is `VoiceSeparate` and there is a voice output, this field is required.

MediaWorkflow_Topology_Nodes_Snapshot_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints

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TemplateId	Screenshot template ID	String	Yes	None
Output	Output address	Container. For more information, see Output.	Yes	None

MediaWorkflow_Topology_Nodes_Animation_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Video-to-animated image conversion template ID	String	Yes	None
Output	Output address	Container. For more information, see Output.	Yes	None

MediaWorkflow_Topology_Nodes_SmartCover_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Intelligent thumbnail template ID	String	No	None
SmartCover	Intelligent thumbnail parameter	Container. For more information, see SmartCover.	No	None
Output	Output address	Container. For more information, see Output.	Yes	None

Note:

Both `TemplateId` and `SmartCover` can be left empty, in which case three thumbnails will be generated according to the original video size by default. If both of them are specified, `TemplateId` will take effect.

MediaWorkflow_Topology_Nodes_Transcode_***_Operation

Node Name	Description	Type	Required	Constraints

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(Keyword)				
TemplateId	Audio/Video transcoding template ID	String	No	None
WatermarkTemplateId	Watermark template ID	String array	No	Up to three watermark template IDs are supported.
RemoveWatermark	Watermark removal parameter	Container. For more information, see RemoveWatermark.	No	None
DigitalWatermark	Digital watermark parameter	Container. For more information, see DigitalWatermark.	No	None
Output	Output address	Container. For more information, see Output.	Yes	None
Input	Input configuration	Container	No	None

`MediaWorkflow_Topology_Nodes_Transcode_\\*\\*\\*_Operation.Input` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Constraints
SpeedTranscodingQueueId	Accelerated transcoding queue	String	No	None

MediaWorkflow_Topology_Nodes_Concat_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Splicing template ID	String	Yes	None
Output	Output address	Container. For more information, see Output.	Yes	None

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MediaWorkflow_Topology_Nodes_VoiceSeparate_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Voice/Sound separation template ID	String	Yes	None
Output	Output address	Container. For more information, see Output.	Yes	None

MediaWorkflow_Topology_Nodes_VideoMontage_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Video montage template ID	String	Yes	None
Output	Output address	Container. For more information, see Output.	Yes	None

MediaWorkflow_Topology_Nodes_SDRtoHDR_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
SDRtoHDR	SDR-to-HDR configuration	Container	Yes	None
TranscodeTemplateId	Audio/Video transcoding template ID	String	Yes	None
WatermarkTemplateId	Watermark template ID	String array	No	Up to three watermark template IDs are supported.
Output	Output address	Container. For more information, see Output.	Yes	None

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`SDRtoHDR` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Constraints
HdrMode	HDR mode	String	Yes	HLG HDR10

MediaWorkflow_Topology_Nodes_VideoProcess_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Video enhancement template ID	String	Yes	None
TranscodeTemplateId	Audio/Video transcoding template ID	String	Yes	None
WatermarkTemplateId	Watermark template ID	String array	No	Up to three watermark template IDs are supported.
DigitalWatermark	Digital watermark parameter	Container. For more information, see DigitalWatermark.	No	None
Output	Output address	Container. For more information, see Output.	Yes	None

MediaWorkflow_Topology_Nodes_SCF_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
SCF	SCF function information	Container	Yes	None

`SCF` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Constraints

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Region	Function region	String	Yes	None
FunctionName	Function name	String	Yes	None
Namespace	Namespace	String	No	None
Alias	Function alias	String	No	None

MediaWorkflow_Topology_Nodes_SuperResolution_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Super resolution template ID	String	Yes	None
TranscodeTemplateId	Audio/Video transcoding template ID	String	Yes	None
WatermarkTemplateId	Watermark template ID	String array	No	Up to three watermark template IDs are supported.
DigitalWatermark	Digital watermark parameter	Container. For more information, see DigitalWatermark.	No	None
Output	Output address	Container. For more information, see Output.	Yes	None

MediaWorkflow_Topology_Nodes_Segment_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
Segment	Audio/Video remuxing parameter	Container	Yes	None
Output	Output address	Container. For more information, see Output.	Yes	None

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`Segment` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Constraints
Format	Container format	String	Yes	aac, mp3, flac, mp4, ts, mkv, avi, hls, m3u8
Duration	Remuxing duration in seconds	String	No	The value must be an integer equal to or greater than 5.
HlsEncrypt	HLS encryption configuration	Container	No	This parameter takes effect only when the container format is `hls`. For more information, see HlsEncrypt.

MediaWorkflow_Topology_Nodes_PicProcess_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Image processing template ID	String	Yes	None
Output	Output address	Container. For more information, see Output.	Yes	None

MediaWorkflow_Topology_Nodes_Tts_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Text-to-speech template ID	String	Yes	None
Output	Output address	Container. For more information, see Output.	Yes	None

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MediaWorkflow_Topology_Nodes_SpeechRecognition_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
Output	Output address	Container. For more information, see Output.	Yes	None
StreamPackConfig	Packaging configuration	Container	Yes	None

MediaWorkflow_Topology_Nodes_StreamPackConfig_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
StreamPackConfig	Packaging configuration	Container	No	None

`StreamPackConfig` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Constraints
PackType	Packaging type. Default value: `HLS` .	String	No	HLS/DASH
IgnoreFailedStream	Whether to ignore the substream failed to be transcoded and continue packaging. Default value: `true` .	String	No	true/false

MediaWorkflow_Topology_Nodes_VideoStream_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
TemplateId	Audio/Video transcoding template ID	String	No	None

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WatermarkTemplateId	Watermark template ID	String array	No	Up to three watermark template IDs are supported.
RemoveWatermark	Watermark removal parameter	Container. For more information, see RemoveWatermark.	No	None
Output	Output address	Container. For more information, see Output.	Yes	None

MediaWorkflow_Topology_Nodes_StreamPack_***_Operation

Node Name (Keyword)	Description	Type	Required	Constraints
StreamPackInfo	Packaging rule	Container	No	None

`StreamPackInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Constraints
VideoStreamConfig	Video substream configuration	Container	No	None

`VideoStreamConfig` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Constraints
VideoStreamName	Video substream name	String	Yes	It must be consistent with the existing video node.
BandWidth	Video substream bandwidth limit. Unit: b/s. Value range: [0, 2000000000], where 0 indicates no limit.	String	No	The value must be equal to or greater than 0. The default value is 0.

AudioMix

Node Name	Description	Type	Required	Default	Constraints

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(Keyword)				Value	
AudioSource	Address of the audio track file to be mixed	String	Yes	None	It must be stored in the same bucket as the input media file.
MixMode	Audio mix mode	String	No	Repeat	Repeat: Repeats the background sound Once: Plays back the background sound once
Replace	Whether to replace the original audio of the input media file with the mixed audio track	String	No	false	true/false
EffectConfig	Audio mix transition configuration	Container	No	false	None

`EffectConfig` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required	Default Value	Constraints
EnableStartFadein	Enables fade-in	String	No	false	true/false
StartFadeinTime	Fade-in duration	String	No	None	A floating point number above 0
EnableEndFadeout	Enables fade-out	String	No	false	true/false
EndFadeoutTime	Fade-out duration	String	No	None	A floating point number above 0
EnableBgmFade	Enables fade-in for background music transition	String	No	false	true/false
BgmFadeTime	Fade-in duration for background music transition	String	No	None	A floating point number above 0

CallBackMqConfig

Node Name	Description	Type	Required

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(Keyword)			
MqRegion	Message queue region. Valid values: `sh` (Shanghai), `bj` (Beijing), `gz` (Guangzhou), `cd` (Chengdu), `hk` (Hong Kong, China).	String	Yes
MqMode	Message queue mode. Default value: `Queue` . Topic: Topic subscription Queue: Queue service	String	Yes
MqName	TDMQ topic name	String	Yes

DigitalWatermark

Node Name (Keyword)	Description	Type	Required	Constraints
Message	The watermark information embedded by the digital watermark	String	Yes	It can contain up to 64 letters, digits, underscores (_), hyphens (-), and asterisks (*).
Type	Digital watermark type	String	Yes	It currently can be set to `Text` only.
Version	Digital watermark version	String	Yes	It currently can be set to `V1` only.
IgnoreError	Whether to ignore the watermarking failure and continue the job.	String	Yes	Valid values: `true` , `false` .
State	Whether the watermark is added successfully. Valid values: `Running` , `Success` , `Failed` .	string	No	This field cannot be set actively; instead, it will be returned after the job is submitted successfully.

DashEncrypt

Node Name (Keyword)	Description	Type	Required	Default Value	Constraints
IsEncrypt	Whether to enable	String	No	false	true/false

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	DASH encryption				
UriKey	DASH encryption key	String	No	None	This parameter will take effect only when `IsEncrypt` is `true`.

HlsEncrypt

Node Name (Keyword)	Description	Type	Required	Default Value	Constraints
IsEncrypt	Whether to enable HLS encryption	String	No	false	true/false
UriKey	HLS encryption key	String	No	None	This parameter will take effect only when `IsEncrypt` is `true`.

RemoveWatermark

Node Name (Keyword)	Description	Type	Required	Constraints
Dx	X-axis offset of the top-left corner origin	String	Yes	Value range: [0, 4096] Unit: px
Dy	Y-axis offset of the top-left corner origin	String	Yes	Value range: [0, 4096] Unit: px
Width	Watermark width	String	Yes	Value range: (0, 4096] Unit: px
Height	Watermark height	String	Yes	Value range: (0, 4096] Unit: px

SmartCover

Node Name (Keyword)	Description	Type	Required	Default Value	Constraints

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Format	Image format	String	No	jpg	jpg, png, webp
Width	Width	String	No	Original video width	Value range: [128, 4096] Unit: px If only `Width` is set, `Height` is calculated based on the original video aspect ratio.
Height	Height	String	No	Original video height	Value range: [128, 4096] Unit: px If only `Height` is set, `Width` is calculated based on the original video aspect ratio.
Count	Number of screenshots	String	No	3	[1,10]
DeleteDuplicates	Whether to deduplicate thumbnails.	String	No	false	true/false

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Content Moderation APIs
Image Moderation
Single Image Moderation

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Feature Overview

The image moderation API supports both sync and async GET request methods. You can use this API to perform content moderation on an image file.
The API supports the following operations:

Note:

You can moderate image files stored in COS.
You can moderate images at URLs of a third-party cloud storage vendor.
Local image files can be moderated after being Base64-encoded by calling the API for batch image moderation.
Detect COS images or links and recognize content that may be offensive, unsafe, or inappropriate based on the deep learning technology.
Moderate GIF images by capturing frames.
Recognize various non-compliant scenarios, including vulgarity, law or regulation violations, pornography, and advertising.
Detect multiple types of objects (such as object, advertising logo, and QR code) and recognize text in images based on OCR.
Customize moderation policies based on different business scenarios as instructed in Setting Moderation Policy.
Customize risk libraries to filter non-compliant custom content.

Billing Details

Each moderation scene is billed separately. For example, if you choose to moderate **one image file** in two scenes involving pornography and advertising, you will be charged **twice**.
Calling the API will incur image moderation fees and COS read request fees as described in Request Fees.
If the image files are stored in COS STANDARD_IA storage class, calling the moderation API will incur STANDARD_IA data retrieval fees as described in Data Retrieval Fees.
Image moderation is not supported for objects stored in the ARCHIVE or DEEP ARCHIVE storage classes. To moderate these objects, you first need to restore them as instructed in POST Object restore.

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Moderating audios at URLs of a third-party cloud storage vendor will incur downstream traffic fees charged by the vendor.

Restrictions

Supported image file size: < 32 MB. To moderate images larger than 5 MB in size, you need to use the `large-image-detect` parameter when calling the API.
Supported image file resolution: **a resolution of 256x256 or higher** is recommended; otherwise, the recognition effect may be affected.
Supported image file format: PNG, JPG, JPEG, BMP, GIF, or WEBP.
Supported image URL transfer protocols: HTTP and HTTPS.
Calling the API requires a signature. For more information, see Request Signature.

SDK Recommendation

COS SDK provides complete capabilities of demo, automatic integration, and signature calculation. You can easily and quickly call APIs through the SDK. For more information, see SDK Overview.

Request

Sample request

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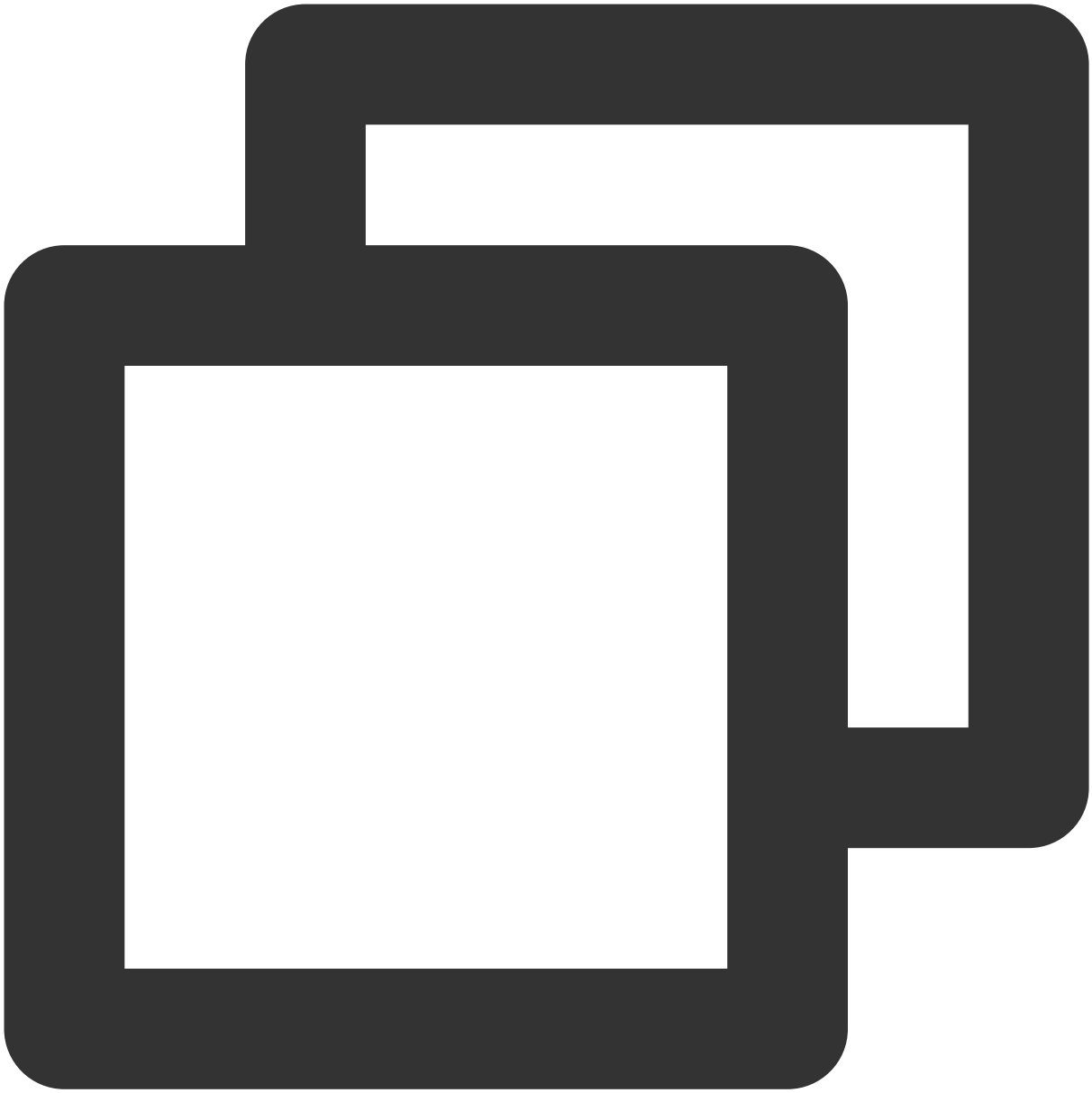

```
GET /<ObjectKey>?ci-process=sensitive-content-recognition&detect-url=<detect-url>&i
Host: <BucketName-APPID>.cos.<Region>.myqcloud.com
Date: GMT Date
Authorization: Auth String
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request parameters

The parameters are as described below:

Parameter	Description	Type	Required
ObjectKey	Name of the image file in the COS bucket. The COS bucket is specified by `Host`. For example, if the file is `img.jpg` in the `test` directory in the `examplebucket-1250000000` bucket in Beijing, then `Host` is `examplebucket-1250000000.cos.ap-beijing.myqcloud.com`, and `ObjectKey` is `test/img.jpg`.	String	No
ci-process	This field identifies the data processing feature, which is `sensitive-content-recognition` for content moderation.	String	Yes
biz-type	Unique identifier of the moderation policy. You can configure the scenes you want to moderate on the moderation policy page in the console, such as pornographic, advertising, and illegal information. For configuration guidelines, see Setting Public Moderation Policy. You can get `BizType` in the console. If `BizType` is specified, the moderation request will perform moderation based on the scenes configured in the moderation policy. If `BizType` is not specified, the default moderation policy will be used automatically.	String	No
detect-url	You can enter a `detect-url` value to moderate an image accessible over the public network. If `detect-url` is not specified, the backend will moderate by `ObjectKey` by default. If `detect-url` is specified, the backend will moderate by `detect-url`, and there is no need to enter `ObjectKey`. Sample `detect-url`: http://www.example.com/abc.jpg	String	No
interval	For GIF image moderation, you can use this parameter to configure the frame capturing interval. The default value is `5`, indicating to capture a frame every five frames starting from the first frame (included).	Int	No
max-frames	The maximum number of frames to be captured for GIF image moderation, which must be greater than 0. The default value is `5`, indicating to capture five frames at most.	Int	No
large-	Whether to compress the image that exceeds the size limit before	Int	No

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image-detect	moderation. Valid values: `0` (no), `1` (yes). Default value: `0`. Note: Images up to 32 MB in size can be compressed, and image compression fees will be charged. For large animated images such as GIF, the compression time is long, which may cause the moderation to fail due to timeout.		
dataid	Image ID. This field will return the original content in the result, which can contain up to 512 bytes.	String	No
async	Whether to moderate asynchronously. Valid values: `0` (returns the result synchronously); `1` (moderates asynchronously). Default value: `0`.	Int	No
callback	Callback address. The moderation result (in `Detail` mode) can be sent to your callback address in the form of a callback. This parameter takes effect for async moderation. Addresses starting with `http://` or `https://` are supported, such as `http://www.callback.com`.	String	No

Note:

Moderation through `ObjectKey` is a private network operation and will not generate public network traffic. Moderation through `detect-url` will generate public network traffic with regard to the origin where the image resides.

Request body

The request body of this request is empty.

Response

Response headers

This API only returns Common Response Headers.

Response body

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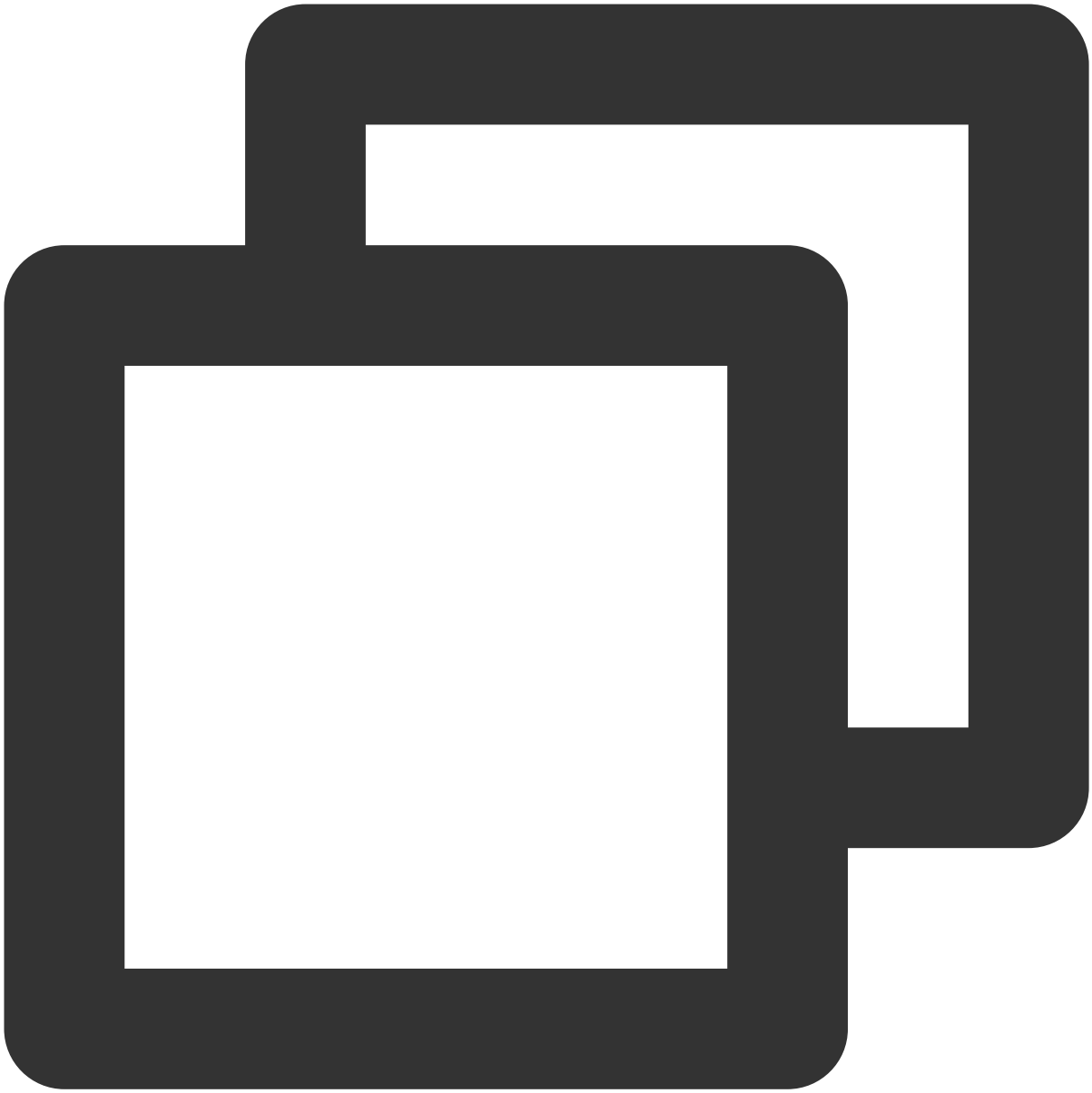

```
<RecognitionResult>
      <JobId>xxxxxxxxxxxxxxx</JobId>
      <Result>1</Result>
      <Label>Porn</Label>
      <SubLabel>SexBehavior</SubLabel>
      <Score>90</Score>
      <PornInfo>
          <Code>0</Code>
          <Msg>OK</Msg>
          <HitFlag>1</HitFlag>
          <Label>xxx</Label>
```

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```
            <SubLabel>SexBehavior</SubLabel>
            <Score>100</Score>
            <OcrResults>
              <Text></Text>
              <Keywords></Keywords>
              <Location>
                <X></X>
                <Y></Y>
                <Width></Width>
                <Height></Height>
                <Rotate></Rotate>
              </Location>
            </OcrResults>
        </PornInfo>
</RecognitionResult>
```

The response body is as described below:

Parameter	Type	Description
RecognitionResult	Container	Image moderation result.

The async moderation result `RecognitionResult` has the following sub-nodes:

Parameter	Type	Description
DataId	String	Image ID. The original content will be returned in the moderation result, which can contain up to 512 bytes.
JobId	String	Image moderation job ID.
State	String	Status of the moderation job. Valid value: `Submitted`.
Object	String	The name of the image file stored in the COS bucket, which will be returned if `ObjectKey` is selected during job creation.
Url	String	The URL of the image file, which will be returned if `detect-url` is selected during job creation.

The sync moderation result `RecognitionResult` has the following sub-nodes:

Parameter	Type	Description
DataId	String	Image ID. The original content will be returned in the moderation result, which can contain up to 512 bytes.
JobId	String	Image moderation job ID.

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State	String	Status of the moderation job. Valid value: `Success` .
Object	String	The name of the image file stored in the COS bucket, which will be returned if `ObjectKey` is selected during job creation.
Url	String	The URL of the image file, which will be returned if `detect-url` is selected during job creation.
CompressionResult	Int	Whether the image is compressed. Valid values: `0` (no), `1` (yes).
Result	Int	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).
Label	String	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal` , `Porn` , `Ads` , and other types of unsafe or inappropriate content.
Category	String	This field is a subset of `Label` , indicating the specific moderation category hit; for example, `Sexy` represents the sexy category in the `Porn` label.
SubLabel	String	Second-level label hit by the image.
Score	Int	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.
Text	String	The specific text content recognized by OCR in the image, which will be returned if text content detection is enabled in the moderation policy.
PornInfo	Container	The moderation result of the **pornographic information** moderation scene.
AdsInfo	Container	The moderation result of the **advertising information** moderation scene.

The moderation information (`PornInfo` and `AdsInfo`) has the following sub-nodes:

Parameter	Type	Description
Code	Int	Error code. `0` indicates a success, while other numbers correspond to different

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		errors. For more information, see Error Codes.
Msg	String	The specific error message, which will be `OK` if the moderation result is normal.
HitFlag	Int	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as a violation of the current scene); `2` (suspected as a violation of the current scene).
Score	Int	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. A value in the range of 0–60, 61–90, or 91–100 means the image is normal, suspiciously sensitive, or sensitive respectively. For example, `Porn 99` means that the content is very likely to be pornographic.
Label	String	This field indicates the overall result label of the screenshot, which may be `SubLabel`, a person name, etc.
Category	String	This field is a subset of `Label`, indicating the specific moderation category hit; for example, `Sexy` represents the sexy category in the `Porn` label.
SubLabel	String	This field indicates the specific sub-label hit by the moderation job; for example, `SexBehavior` is a sub-label under the `Porn` label. Note: This field may return null, indicating that no specific sub-labels are hit.
OcrResults	Container Array	This field represents the detailed OCR result, including the text recognition result and hit keyword. It will be returned if there is non-compliant content.
LibResults	Container Array	This field returns results based on recognition against the risk library. Note: This field will not be returned if no samples in the risk library are hit.

`LibResults` has the following sub-nodes:

Parameter	Type	Description
ImageId	String	This field represents the hit image sample ID in the risk library.
Score	Integer	This field returns the confidence under the current label. Value range: 0–100. The higher the value, the more likely the image hits a sample in the risk library. For example, `Porn 99` means that the content is very likely to hit a pornographic sample in the library.

`OcrResults` has the following sub-nodes:

Parameter	Type	Description
Text	String	The specific text content recognized by OCR in the image.

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Keywords	String Array	Keywords hit by the current moderation scene.
Location	Container	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the OCR detection frame in the image for quick location of the recognized text.

`Location` has the following sub-nodes:

Name	Type	Description
X	Float	This parameter is used to return the pixel position of the **abscissa (X) of the top-left corner** of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.
Y	Float	This parameter is used to return the pixel position of the **ordinate of the top-left corner** (Y) of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.
Width	Float	This parameter is used to return the **width of the detection frame** (the length starting from the top-left corner and extending to the right on the X axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.
Height	Float	This parameter is used to return the **height of the detection frame** (the length starting from the top-left corner and extending down the Y axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.
Rotate	Float	This parameter is used to return the **rotation angle of the detection frame**. Valid values: **0–360** (**degrees**), and the direction is **counterclockwise rotation**. This parameter can be combined with the `X` and `Y` coordinate parameters to uniquely determine the specific position of the detection frame.

`ObjectResults` has the following sub-nodes:

Name	Type	Description
Name	String	This field is used to return the name of the recognized object, such as person name.
Location	Container	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the recognition result in the image for you to quickly locate information.

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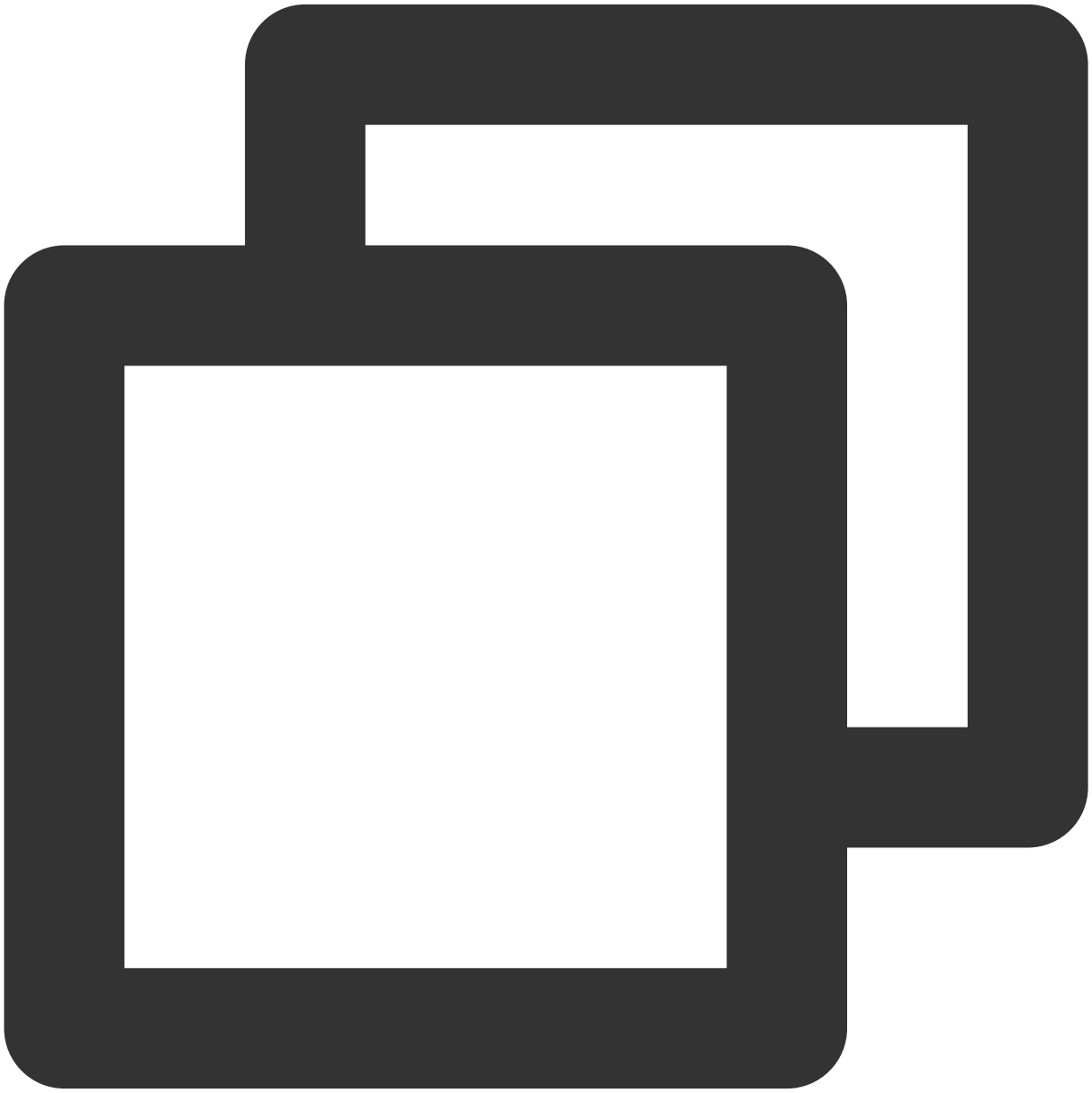
Examples

Request 1: Sync image moderation



```
GET /picture.jpg?ci-process=sensitive-content-recognition&interval=0&max-frames=1&b
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Date: Tue, 03 Apr 2019 09:06:15 GMT
Authorization:XXXXXXXXXXXX
```

Response 1

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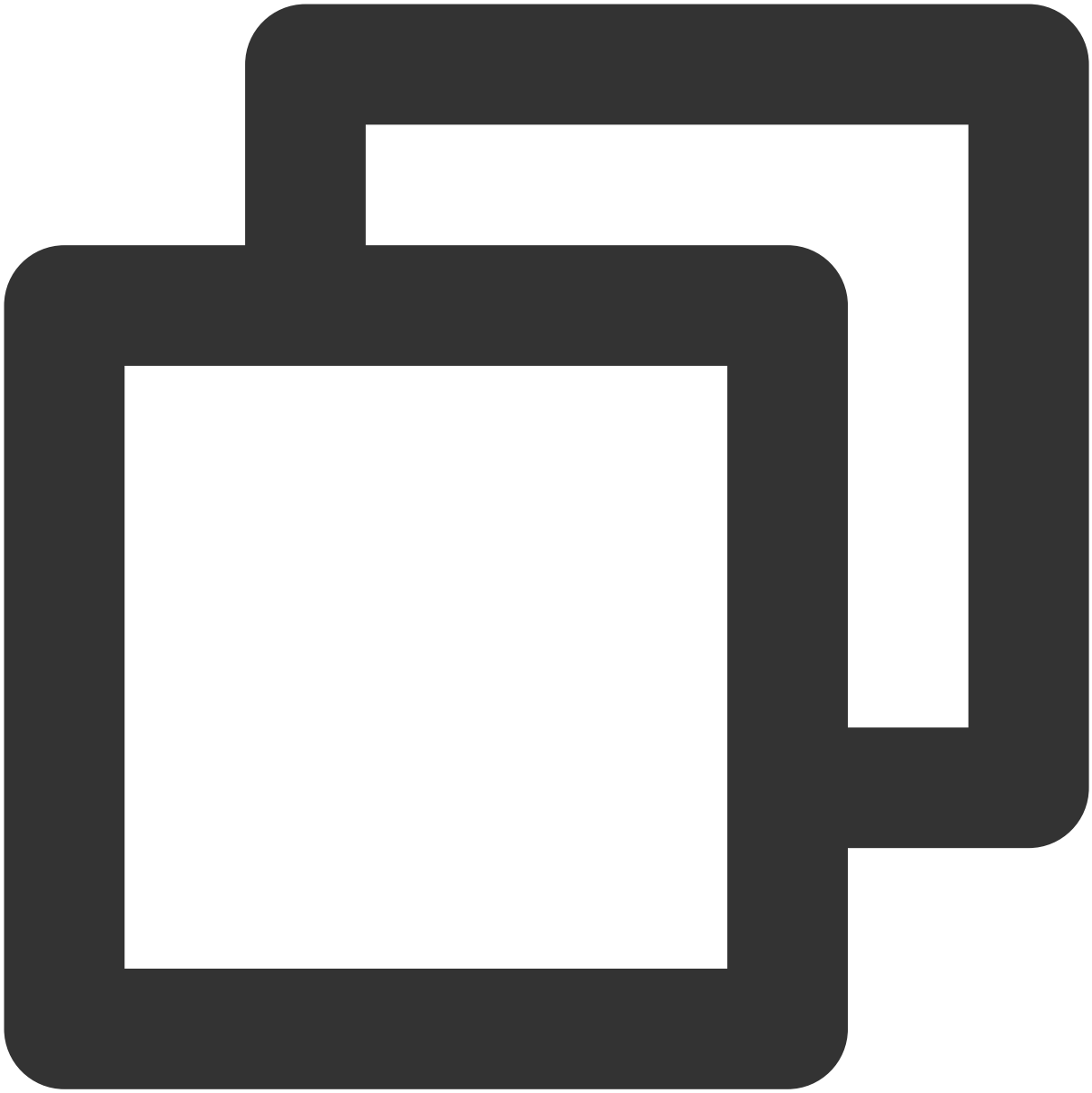

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
Status: 200 OK
x-cos-request-id: NWFjMzQ0MDZfOTBmYTUwXzZkZV8z****

<RecognitionResult>
      <JobId>xxxxxxxxxxxxxxx</JobId>
      <CompressionResult>0</CompressionResult>
      <Result>1</Result>
```

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```
        <Label>Porn</Label>
        <SubLabel>SexBehavior</SubLabel>
        <Score>95</Score>
        <PornInfo>
            <Code>0</Code>
            <Msg>OK</Msg>
            <HitFlag>1</HitFlag>
            <Label>xxx</Label>
            <SubLabel>SexBehavior</SubLabel>
            <Score>95</Score>
        </PornInfo>
</RecognitionResult>
```

Request 2: Async image moderation

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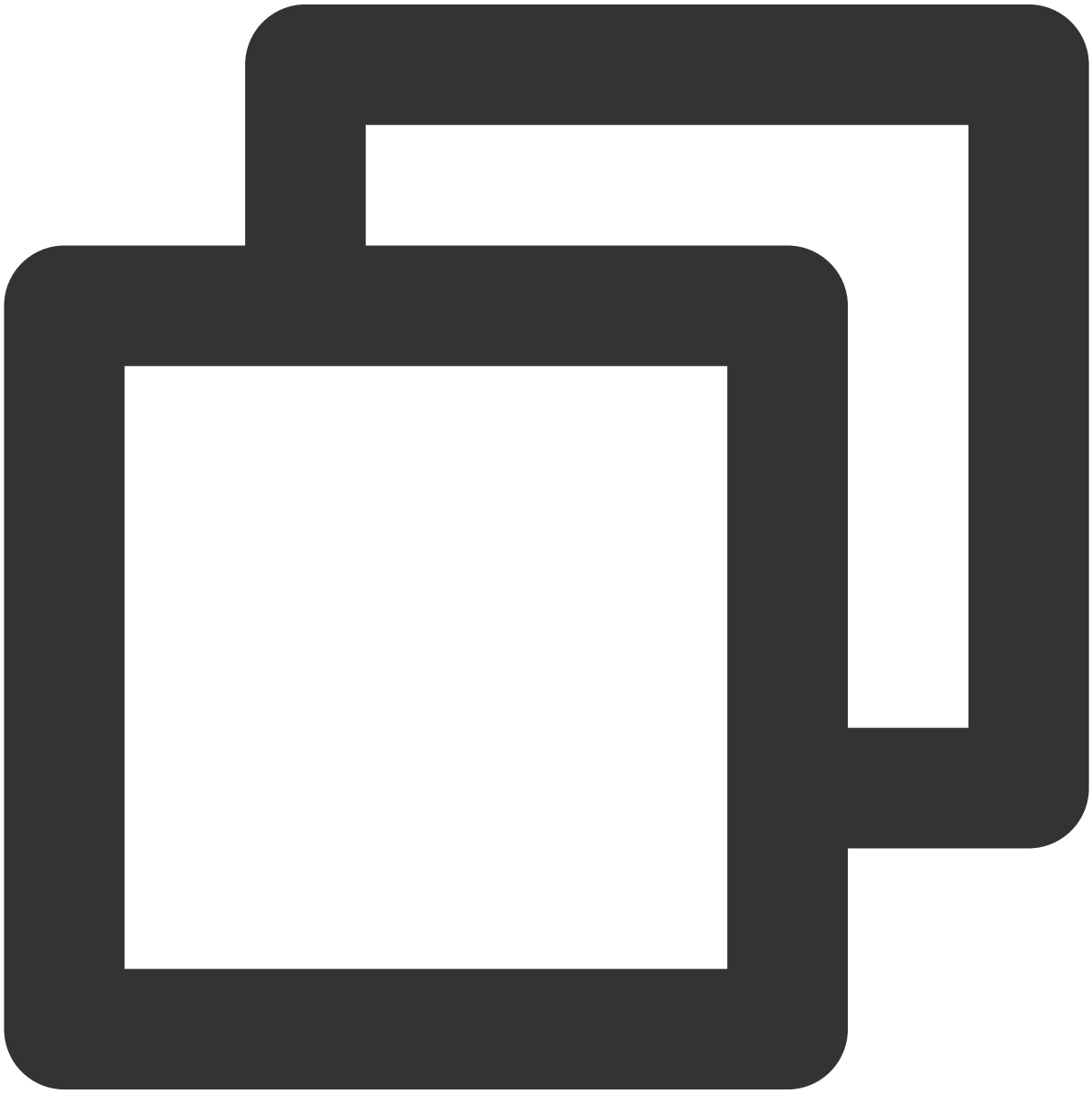

```
GET /picture.jpg?ci-process=sensitive-content-recognition&biz-type=***&async=1&call
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Date: Tue, 03 Apr 2019 09:06:15 GMT
Authorization:XXXXXXXXXXXX
```

Response 2

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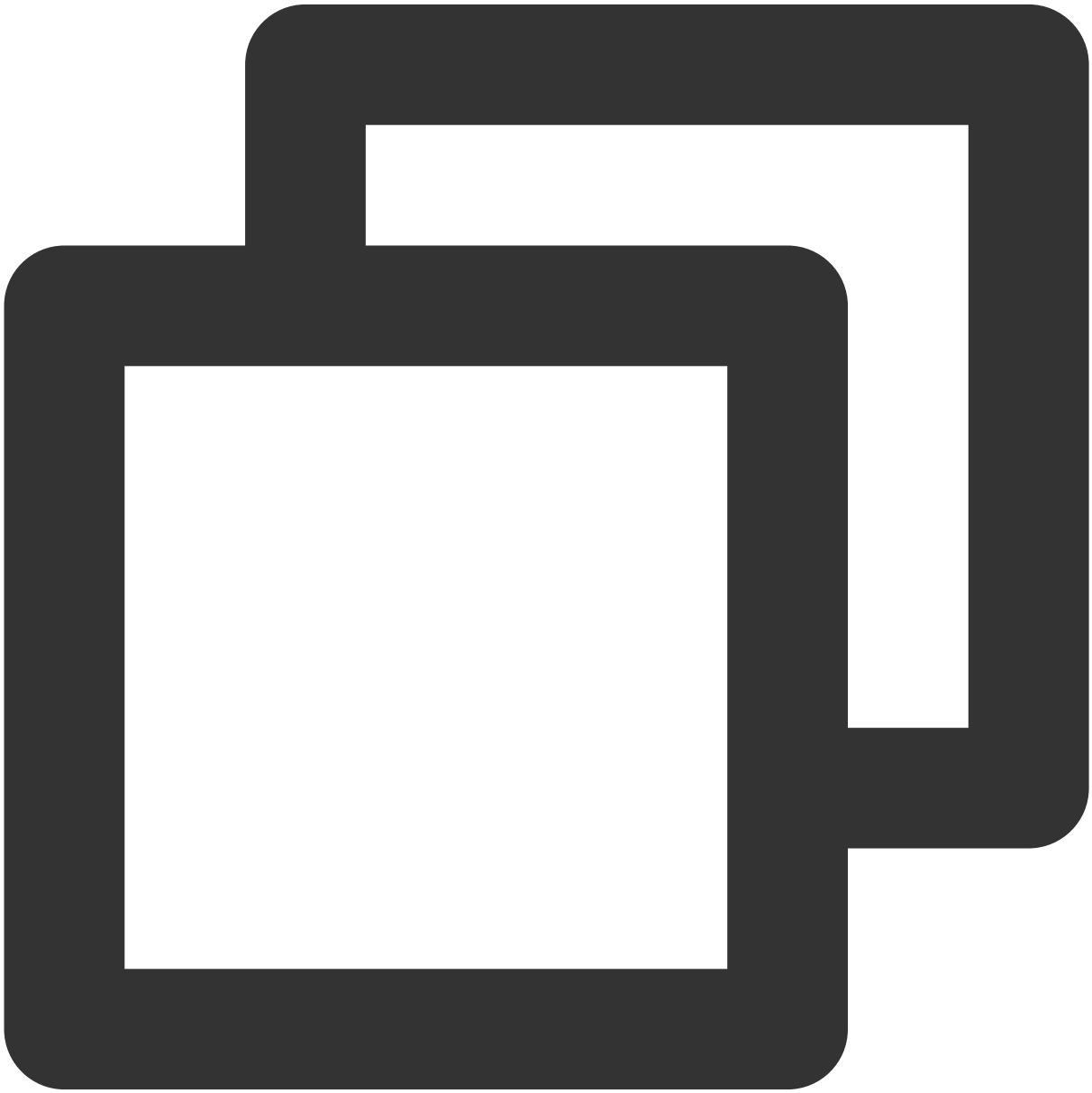

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
Status: 200 OK
x-cos-request-id: NWFjMzQ0MDZfOTBmYTUwXzZkZV8z****

<RecognitionResult>
      <JobId>xxxxxxxxxxxxxxx</JobId>
</RecognitionResult>
```

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Batch Image Moderation

Last updated：2024-06-12 16:01:53

Feature Overview

The batch image moderation API adopts a sync or async POST request method. You can use this API to perform content moderation on multiple image files.

Note:

You can moderate image files stored in COS.

You can moderate images at URLs of a third-party cloud storage vendor.

To moderate encrypted data, please contact us.

You can customize moderation policies based on different business scenarios as instructed in Setting Moderation Policy.

Restrictions

Supported image file size: < 32 MB. To moderate images larger than 5 MB in size, you need to use the `large-image-detect` parameter when calling the API.

Supported image quantity: Up to **100** images per request.

Supported image file resolution: **a resolution of 256x256 or higher** is recommended; otherwise, the recognition effect may be affected.

Supported image file format: PNG, JPG/JPEG, BMP, GIF, WEBP, or HEIF/HEIC.

Supported image URL transfer protocols: HTTP and HTTPS.

Calling the API requires a signature. For more information, see Request Signature.

SDK Recommendation

COS SDK provides complete capabilities of demo, automatic integration, and signature calculation. You can easily and quickly call APIs through the SDK. For more information, see SDK Overview.

Request

Sample request

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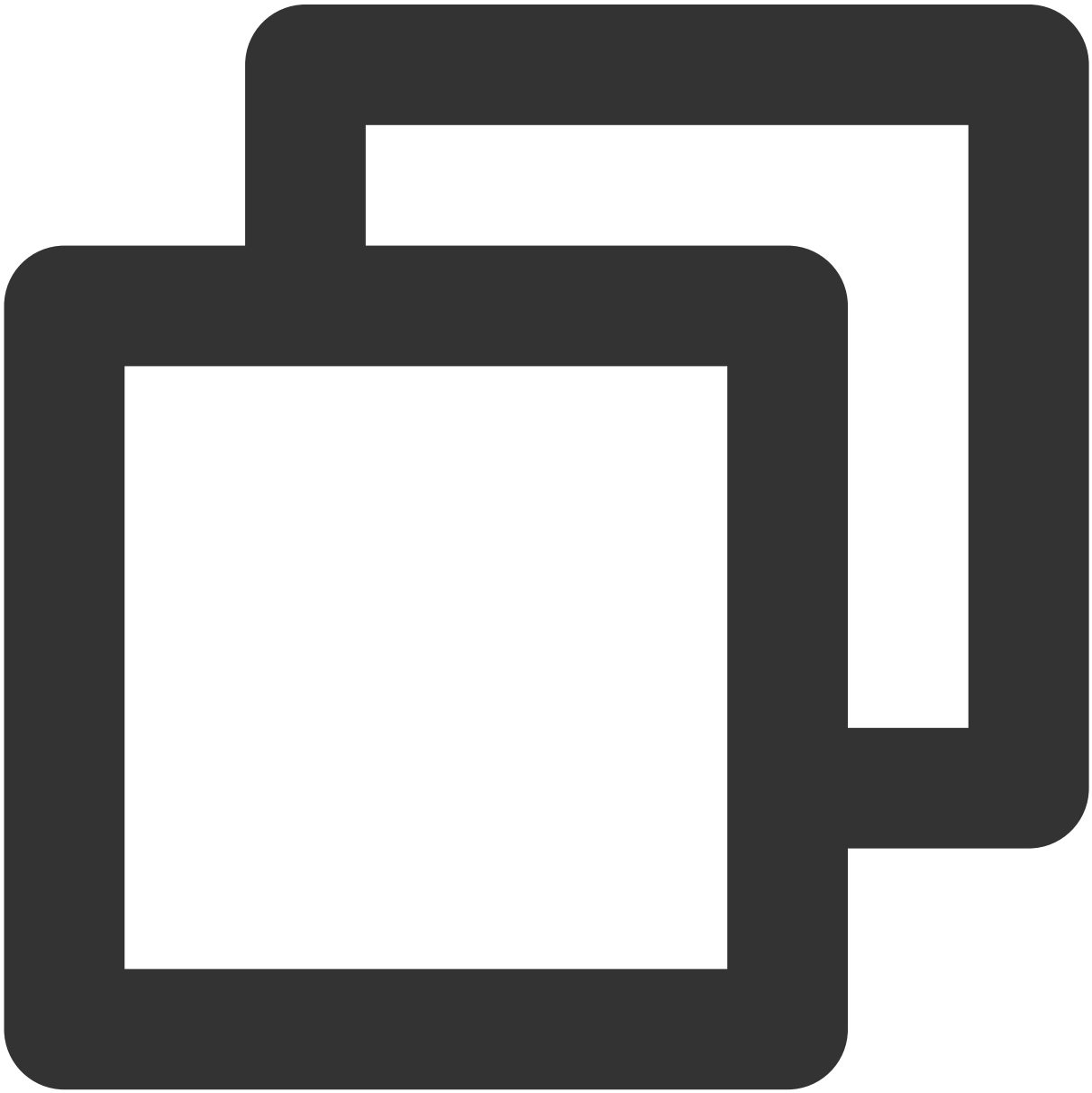

```
POST /image/auditing HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (see Request Signature for more information)

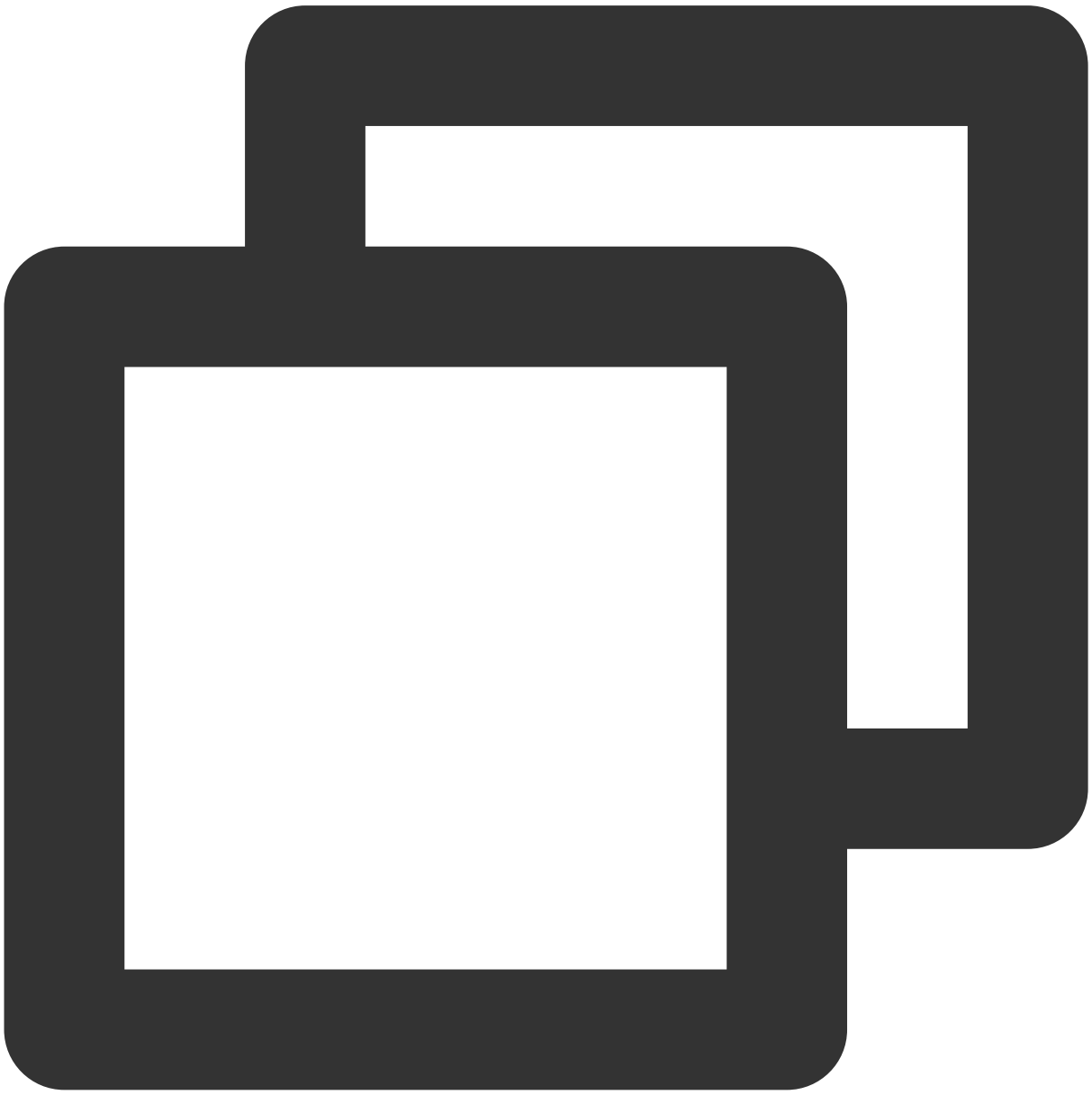
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
    <Input>
      <DataId></DataId>
      <Url></Url>
      <Object></Object>
      <Content></Content>
      <Interval></Interval>
      <MaxFrames></MaxFrames>
      <LargeImageDetect></LargeImageDetect>
      <UserInfo>
        <TokenId></TokenId>
      </UserInfo>
    </Input>
    <Input>
      <DataId></DataId>
      <Url></Url>
      <Object></Object>
      <Content></Content>
      <Interval></Interval>
      <MaxFrames></MaxFrames>
    </Input>
    <Conf>
      <BizType>b81d45f94b91a683255e9a9506f45a11</BizType>
      <Async></Async>
      <Callback></Callback>
      <Freeze>
        <PornScore></PornScore>
      </Freeze>
    </Conf>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Batch image moderation configuration.	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Input	Request	Content to be moderated. If there are multiple images, pass in multiple `Input` structures.	Container Array	Yes
Conf	Request	Moderation rule configuration.	Container	Yes

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`Input` has the following sub-nodes, and you need to use only one of these sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Name of the image file stored in the COS bucket; for example, if the file is `image.jpg` in the `test` directory, then the filename is `test/image.jpg`. You can select only one parameter among `Content`, `Object`, and `Url` at a time. If more than one parameter is passed in, only one parameter takes effect (in the priority of `Content`, `Object`, and `Url`).	String	No
Url	Request.Input	Full URL of the image file, such as `http://a-1250000.cos.ap-shanghai.myqcloud.com/image.jpg`. You can select only one parameter among `Content`, `Object`, and `Url` at a time. If more than one parameter is passed in, only one parameter takes effect (in the priority of `Content`, `Object`, and `Url`).	String	No
Content	Request.Input	Image file content, which needs to be Base64-encoded first. If multiple parameters among `Content`, `Object`, and `Url` are passed in, only one will take effect in the order of `Content` > `Object` > `Url`.	String	No
Interval	Request.Input	Frame capturing frequency, which takes effect for GIF images only. The default value is `5`, indicating to capture a frame every five frames starting from the first frame (included).	Int	No
MaxFrames	Request.Input	The maximum number of frames to be captured, which takes effect for GIF images only. The default value is `5`, indicating to capture only five frames of the GIF image for moderation. The parameter value must be greater than 0.	Int	No
DataId	Request.Input	Image ID. This field will return the original	String	No

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		content in the result, which can contain up to 512 bytes.		
LargeImageDetect	Request.Input	Whether to compress the image that exceeds the size limit before moderation. Valid values: `0` (no), `1` (yes). Default value: `0`. Note: Images up to 32 MB in size can be compressed, and compression fees will be charged.	Int	No
UserInfo	Request.Input	Business field.	Container	No

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required
TokenId	Account information, which can contain up to 128 bytes.	String	No
Nickname	Nickname information, which can contain up to 128 bytes.	String	No
DeviceId	Device information, which can contain up to 128 bytes.	String	No
AppId	Unique app ID, which can contain up to 128 bytes.	String	No
Room	Room ID information, which can contain up to 128 bytes.	String	No
IP	IP address information, which can contain up to 128 bytes.	String	No
Type	Business type, which can contain up to 128 bytes.	String	No
ReceiveTokenId	User account to receive messages, which can contain up to 128 bytes.	String	No
Gender	Gender information, which can contain up to 128 bytes.	String	No
Level	Level information, which can contain up to 128 bytes.	String	No
Role	Role information, which can contain up to 128 bytes.	String	No

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
BizType	Request.Conf	Unique identifier of the moderation policy. You can	String	No

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		configure the scenes you want to moderate on the moderation policy page in the console, such as pornographic, advertising, and illegal information. For configuration guidelines, see Setting Moderation Policy. You can get `BizType` in the console. If `BizType` is specified, the moderation request will perform moderation based on the scenes configured in the moderation policy. If `BizType` is not specified, the default moderation policy will be used automatically.		
Async	Request.Conf	Whether to moderate asynchronously. Valid values: `0` (returns the result synchronously); `1` (moderates asynchronously). Default value: `0`.	Integer	No
Callback	Request.Conf	The moderation result (in `Detail` mode) can be sent to your callback address in the form of a callback. This parameter takes effect in async moderation. Addresses starting with `http://` or `https://` are supported, such as `http://www.callback.com`.	String	No
Freeze	Request.Conf	This field can be used to set automatic freezing for images based on the moderation score. It takes effect only if the image moderated in `input` is an `object`.	Container	No

`Freeze` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
PornScore	Request.Conf.Freeze	The threshold at or above which automatic freezing will be performed for the porn moderation result. Value range: [0,100]. If this field is left empty (default value), automatic freezing will not be performed.	Integer	No
AdsScore	Request.Conf.Freeze	The threshold at or above which automatic freezing will be performed for the ad moderation result. Value range: [0,100]. If this field is left empty (default value), automatic freezing will not be performed.	Integer	No

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For freezing parameters in other moderation scenes, contact the customer service.

Note:

Moderation through `Object` is a private network operation and will not generate public network traffic.

Moderation through `Url` will generate public network traffic with regard to the origin where the image resides.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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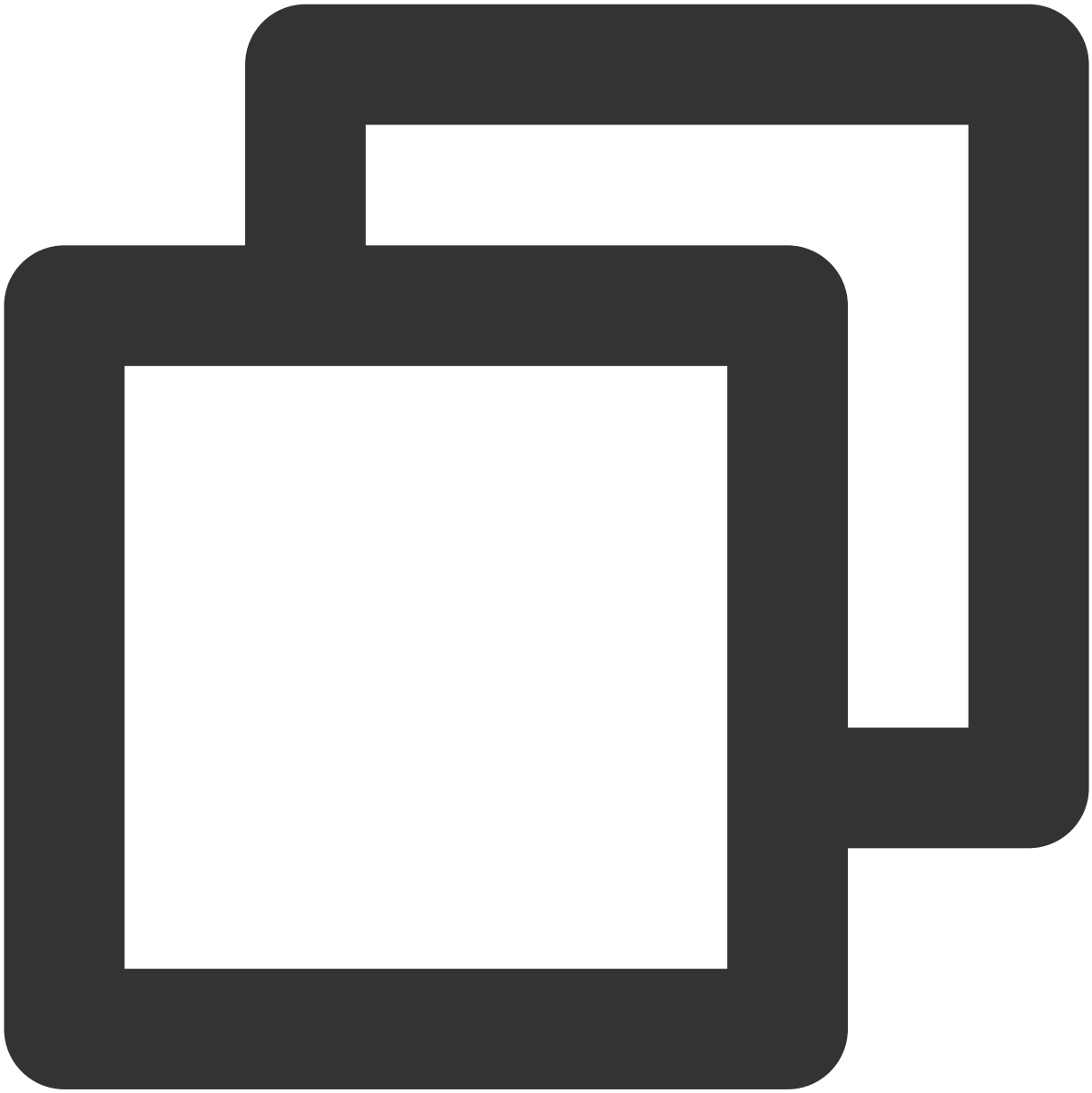

```
<Response>
  <JobsDetail>
    <DataId></DataId>
    <Url></Url>
    <PornInfo>
      <HitFlag>1</HitFlag>
      <Score>100</Score>
      <Category>xxx</Category>
      <SubLabel>xxx</SubLabel>
    </PornInfo>
  </JobsDetail>
```

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```
    <JobsDetail>
      <Code>InvalidArgument</Code>
      <Message>Param MaxFrames is illegal</Message>
      <DataId></DataId>
    </JobsDetail>
  </Response>
```

The response body is as described below:

Node Name (Keyword)	Parent Node	Description
Response	Container	The specific response content returned by batch image moderation.

`Response` has the following sub-nodes:

Parameter	Type	Description
JobsDetail	Container Array	Image moderation result.
RequestId	String	ID automatically generated by the server for a request when the request is sent, which can be used to facilitate fault locating.

The async moderation result `JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Type	Description
Code	String	Error code, which will be returned only in case of a failure. For more information, see Error Codes.
Message	String	Error message, which will be returned only in case of a failure.
DataId	String	Image ID. The original content will be returned in the moderation result, which can contain up to 512 bytes.
JobId	String	Moderation job ID.
State	String	Status of the moderation job. Valid values: `Submitted` , `Failed` .
Object	String	The name of the image file stored in the COS bucket, which will be returned if `Object` is selected during job creation.
Url	String	The URL of the image file, which will be returned if `Url` is selected during job creation.

The sync moderation result `JobsDetail` has the following sub-nodes:

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Parameter	Type	Description
Code	String	Error code, which will be returned only in case of a failure. For more information, see Error Codes.
Message	String	Error message, which will be returned only in case of a failure.
DataId	String	Image ID. The original content will be returned in the moderation result, which can contain up to 512 bytes.
JobId	String	Moderation job ID.
State	String	Status of the moderation job. Valid values: `Success`, `Failed`.
Object	String	The name of the image file stored in the COS bucket, which will be returned if `Object` is selected during job creation.
Url	String	The URL of the image file, which will be returned if `Url` is selected during job creation.
CompressionResult	Integer	Whether the image is compressed. Valid values: `0` (no), `1` (yes).
Label	String	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, `Ads`.
Result	Integer	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).
Score	Integer	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.
Category	String	Moderation type hit by the image.
SubLabel	String	Second-level label hit by the image.
Text	String	The specific text content recognized by OCR in the image, which will be returned if text content detection is enabled in the moderation policy.
PornInfo	Container	The moderation result of the **pornographic information** moderation

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		scene.
AdsInfo	Container	The moderation result of the **advertising information** moderation scene.
UserInfo	Container	`UserInfo` set in the request, which will be returned as-is.
ListInfo	Container	Blocklist/Allowlist status of the account.
ForbidState	Integer	If you set automatic freezing during request, this field indicates the status of the image. `0` : not frozen; `1` : frozen.

The moderation information (such as `PornInfo` and `AdsInfo`) has the following sub-nodes:

Parameter	Type	Description
Code	Integer	Error code for individual moderation scenes. 0: succeeded; other values: failed. For more information, see Error Codes.
Msg	String	The specific error message, which will be `OK` if the moderation result is normal.
HitFlag	Integer	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as a violation of the current scene); `2` (suspected as a violation of the current scene).
Score	Integer	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.
Label	String	The overall result label of the image, which may be `SubLabel` , a person name, etc.
Category	String	This field is a subset of `Label` , indicating the specific moderation category hit; for example, `Sexy` represents the sexy category in the `Porn` label.
SubLabel	String	Second-level label of the image.
OcrResults	Container Array	This field represents the detailed OCR result, including the text coordinate information and text recognition result. It will be returned if there is non-compliant content.
LibResults	Container Array	This field returns results based on recognition against the risk library. Note: This field will not be returned if no samples in the risk library are hit.

`LibResults` has the following sub-nodes:

Node	Type	Description

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Name (Keyword)		
ImageId	String	This field represents the hit image sample ID in the risk library.
Score	Integer	This field returns the confidence under the current label. Value range: 0–100. The higher the value, the more likely the image hits a sample in the risk library. For example, `Porn 99` means that the content is very likely to hit a pornographic sample in the library.

`OcrResults` has the following sub-nodes:

Node Name (Keyword)	Type	Description
Text	String	Sensitive OCR text content
Keywords	String Array	Sensitive words in the text content
Location	Container	Location information of the text content in the image

`ObjectResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Name	String	Sensitive content name
Location	Container	Location information of the content in the image

`Location` has the following sub-nodes:

Node Name (Keyword)	Type	Description
X	Float	X-coordinate relative to the origin (top-left corner of the image)
Y	Float	Y-coordinate relative to the origin (top-left corner of the image)
Height	Float	Height of the sensitive area
Width	Float	Width of the sensitive area
Rotate	Float	Rotation angle of the sensitive area

`UserInfo` has the following sub-nodes (same as the `UserInfo` in the request):

Node Name (Keyword)	Description	Type	Required

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TokenId	Account information, which can contain up to 128 bytes.	String	No
Nickname	Nickname information, which can contain up to 128 bytes.	String	No
DeviceId	Device information, which can contain up to 128 bytes.	String	No
AppId	Unique app ID, which can contain up to 128 bytes.	String	No
Room	Room ID information, which can contain up to 128 bytes.	String	No
IP	IP address information, which can contain up to 128 bytes.	String	No
Type	Business type, which can contain up to 128 bytes.	String	No
ReceiveTokenId	User account to receive messages, which can contain up to 128 bytes.	String	No
Gender	Gender information, which can contain up to 128 bytes.	String	No
Level	Level information, which can contain up to 128 bytes.	String	No
Role	Role information, which can contain up to 128 bytes.	String	No

`ListInfo` has the following sub-nodes:

Node Name (Keyword)	Type	Description
ListResults	Container Array	Results in all hit lists.

`ListResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
ListType	Integer	Type of the hit list. Valid values: `0` (allowlist), `1` (blocklist).
ListName	String	Name of the hit list.
Entity	String	Entity hit in the list.

Use Cases

Request

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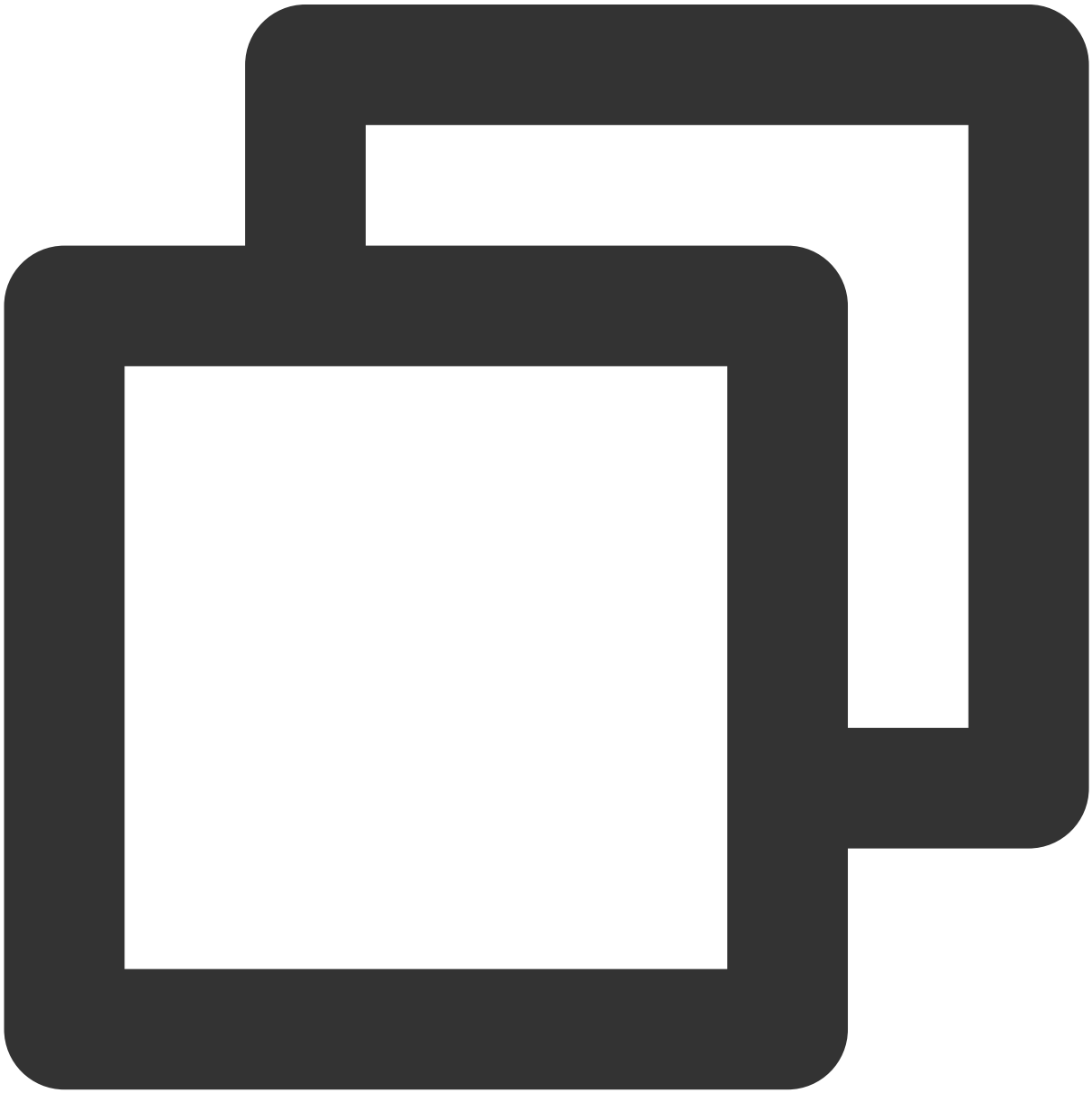

```
POST /image/auditing HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0**********&q-si
Host: examplebucket-1250000000.cos.ap-chengdu.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
  <Input>
    <Object>a.jpg</Object>
  </Input>
  <Input>
```

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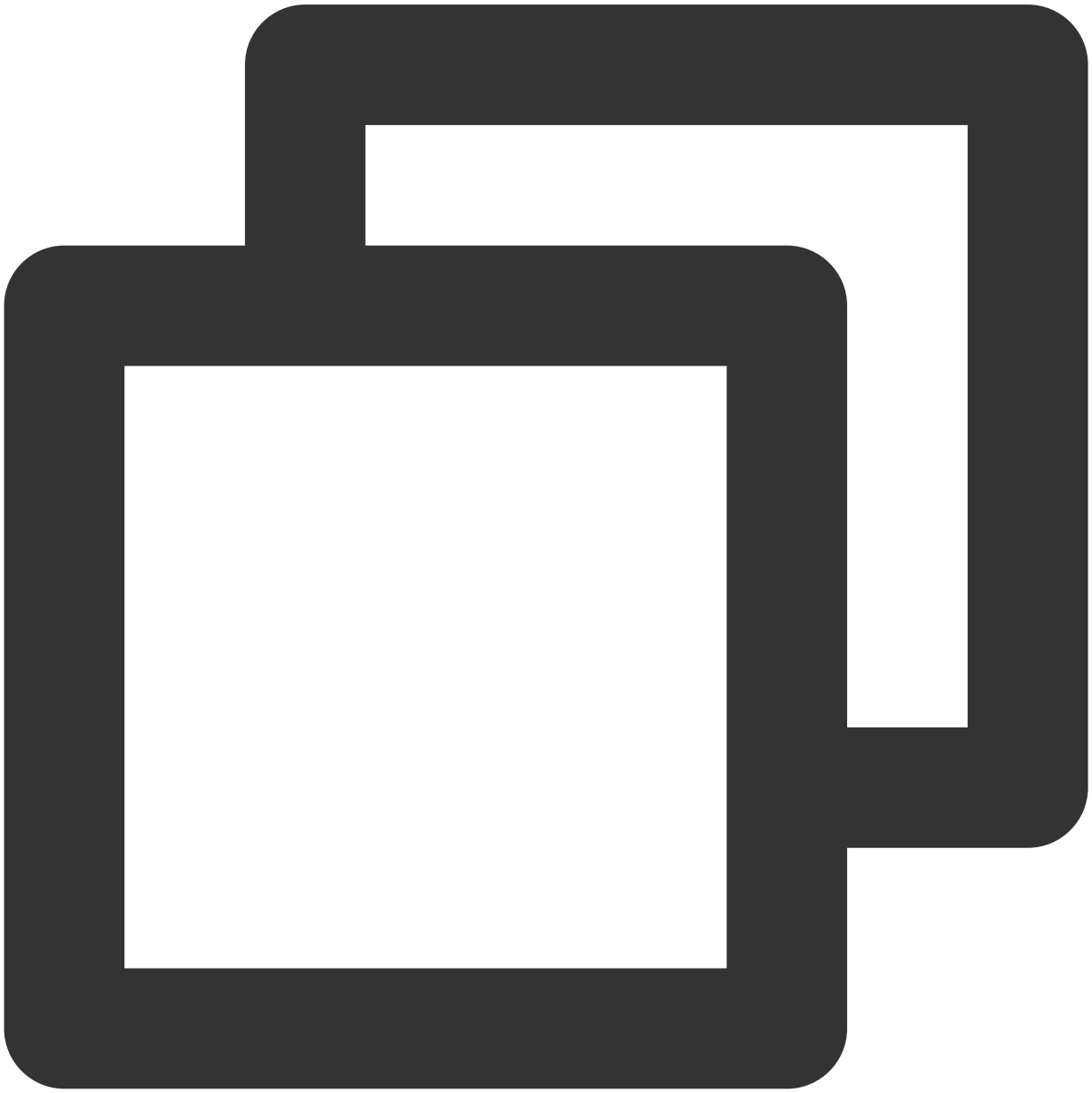
```
    <Url>http://exsample.com/b.jpg</Url>
  </Input>
  <Conf>
    <BizType>b81d45f94xxxxxxxxa9506f45a11</BizType>
  </Conf>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
```

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```
Content-Length: 645
Date: Tue, 03 Apr 2018 09:06:16 GMT
Status: 200 OK
x-cos-request-id: NWFjMzQ0MDZfOTBmYTUwXzZkZV8z****

<Response>
    <JobsDetail>
        <JobId>xxxxxxxxxx</JobId>
        <CompressionResult>0</CompressionResult>
        <Object>a.jpg</Object>
        <Label>Porn</Label>
        <Result>1</Result>
        <Score>100</Score>
        <SubLabel>xxx</SubLabel>
        <PornInfo>
            <Code>0</Code>
            <Msg>OK</Msg>
            <HitFlag>1</HitFlag>
            <Score>100</Score>
            <Label>xxx</Label>
            <SubLabel>xxx</SubLabel>
        </PornInfo>
    </JobsDetail>
    <JobsDetail>
        <JobId>yyyyyyyyyy</JobId>
        <CompressionResult>0</CompressionResult>
        <Url>http://exsample.com/b.jpg</Url>
        <Label>Porn</Label>
        <Result>1</Result>
        <Score>100</Score>
        <SubLabel>xxx</SubLabel>
        <PornInfo>
            <Code>0</Code>
            <Msg>OK</Msg>
            <HitFlag>1</HitFlag>
            <Score>100</Score>
            <Label>xxx</Label>
            <SubLabel>xxx</SubLabel>
        </PornInfo>
    </JobsDetail>
    <RequestId>xxxxxxxxxxx</RequestId>
</Response>
```

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Querying Image Moderation Job Result

Last updated：2024-06-12 16:01:53

Feature Overview

This API is used to query the result of the specified image moderation job.

Note:

Image moderation results are retained for one month, so you can query moderation results in the past month through this API.

SDK Recommendation

CI SDK provides complete capabilities of demo, automatic integration, and signature calculation. You can easily and quickly call APIs through the SDK. For more information, see SDK Overview.

Request

Sample request

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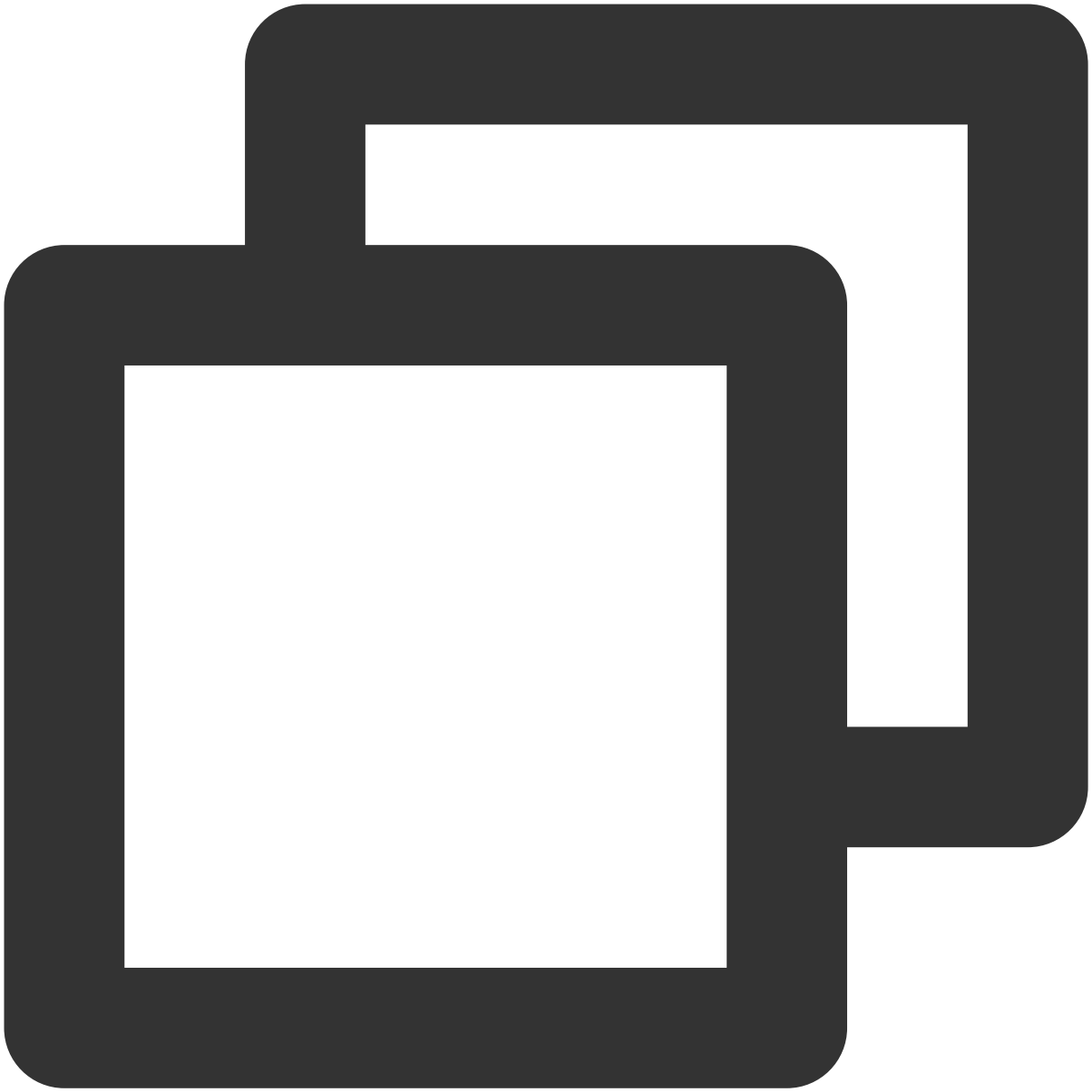

```
GET /image/auditing/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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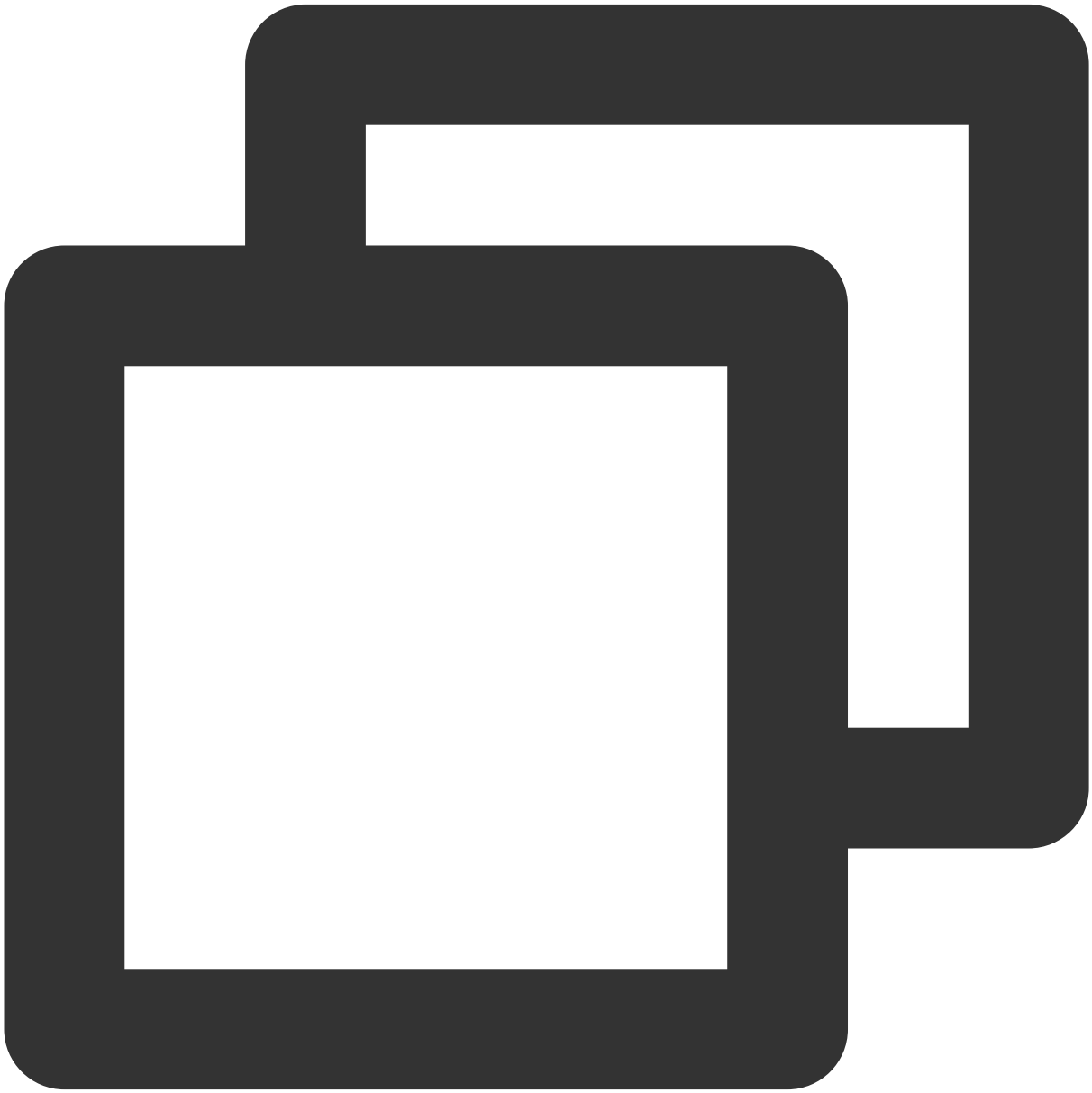

```
<Response>
  <JobsDetail>
    <JobId></JobId>
    <State></State>
    <CreationTime></CreationTime>
    <Object></Object>
    <Label></Label>
    <Result>1</Result>
    <PornInfo>
        <HitFlag>1</HitFlag>
        <Label>xxx</Label>
```

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```
        <SubLabel>SexBehavior</SubLabel>
        <Score>100</Score>
        <OcrResults>
            <Text></Text>
            <Keywords></Keywords>
            <Location>
                <X></X>
                <Y></Y>
                <Width></Width>
                <Height></Height>
                <Rotate></Rotate>
            </Location>
        </OcrResults>
    </PornInfo>
    <AdsInfo>
        <HitFlag>1</HitFlag>
        <Label>xxx</Label>
        <SubLabel>SexBehavior</SubLabel>
        <Score>100</Score>
        <OcrResults>
            <Text></Text>
            <Keywords></Keywords>
            <Location>
                <X></X>
                <Y></Y>
                <Width></Width>
                <Height></Height>
                <Rotate></Rotate>
            </Location>
        </OcrResults>
    </AdsInfo>
  </JobsDetail>
  <RequestId></RequestId>
</Response>
```

The nodes are as described below:

Parameter	Type	Description
Response	Container	Moderation job result.

`Response` has the following sub-nodes:

Parameter	Type	Description
JobsDetail	Container	Job details.

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RequestId	String	ID automatically generated by the server for a request when the request is sent, which can be used to facilitate fault locating.

`JobsDetail` has the following sub-nodes:

Parameter	Type	Description
Code	String	Error code, which will be returned only if `State` is `Failed`. For more information, see Error Codes.
Message	String	Error message, which will be returned only if `State` is `Failed`.
DataId	String	This field will return the original content if the `DataId` parameter is configured during job submission, which can contain up to 512 bytes. You can use this field to uniquely identify the data to be moderated in your business.
JobId	String	Moderation job ID.
State	String	Status of the moderation job. Valid values: `Submitted`, `Success`, `Failed`, `Auditing`.
CreationTime	String	Creation time of the moderation job.
Object	String	The name of the file to be moderated, which will be returned if `Object` is selected during job creation.
Url	String	The URL of the file to be moderated, which will be returned if `Url` is selected during job creation.
CompressionResult	Integer	Whether the image is compressed. Valid values: `0` (no), `1` (yes).
Text	String	The specific text content recognized by OCR in the image, which will be returned if text content detection is enabled in the moderation policy.
Label	String	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, `Ads`.
Result	Integer	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid

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		values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).
Category	String	Moderation category hit by the image.
SubLabel	String	Second-level label hit by the image.
PornInfo	Container	The moderation result of the **pornographic information** moderation scene.
AdsInfo	Container	The moderation result of the **advertising information** moderation scene.
UserInfo	Container	Business field. This field will not exist if `UserInfo` is not set during job creation.
ListInfo	Blocklist/Allowlist status of the account.	Container
ForbidState	Integer	If you set automatic freezing during request, this field indicates the status of the image. `0` : not frozen; `1` : frozen, `2` : file moved.

`PornInfo` and `AdsInfo` have the following sub-nodes:

Parameter	Type	Description
HitFlag	Integer	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as a violation of the current scene); `2` (suspected as a violation of the current scene).
Score	Integer	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. A value in the range of 0–60, 61–90, or 91–100 means the image is normal, suspiciously sensitive, or sensitive respectively. For example, `Porn 99` means that the content is very likely to be pornographic.
Label	String	This field indicates the overall result label of the screenshot, which may be `SubLabel` , a person name, etc.
Category	String	This field indicates the specific moderation category hit; for example, `Sexy` represents the sexy category in the `Porn` label. It may be null, indicating that no category is hit or there is no relevant category.
SubLabel	String	This field indicates the specific sub-label hit by the moderation job; for example, `SexBehavior` is a sub-label under the `Porn` label. Note: This field may return null, indicating that no specific sub-labels are hit.

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OcrResults	Container Array	This field represents the detailed OCR result, including the text recognition result and hit keyword. It will be returned if there is non-compliant content.
LibResults	Container Array	This field returns results based on recognition against the risk library. Note: This field will not be returned if no samples in the risk library are hit.

`LibResults` has the following sub-nodes:

Parameter	Type	Description
ImageId	String	This field represents the hit image sample ID in the risk library.
Score	Integer	This field returns the confidence under the current label. Value range: 0–100. The higher the value, the more likely the image hits a sample in the risk library. For example, `Porn 99` means that the content is very likely to hit a pornographic sample in the library.

`OcrResults` has the following sub-nodes:

Parameter	Type	Description
Text	String	The specific text content recognized by OCR in the image.
Keywords	String Array	Keywords hit by the current moderation scene.
Location	Container	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the OCR detection frame in the image for quick location of the recognized text.

`Location` has the following sub-nodes:

Name	Type	Description
X	Float	This parameter is used to return the pixel position of the **abscissa (X) of the top-left corner** of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.
Y	Float	This parameter is used to return the pixel position of the **ordinate of the top-left corner** (Y) of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.
Width	Float	This parameter is used to return the **width of the detection frame** (the length starting from the top-left corner and extending to the right on the X axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.

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Height	Float	This parameter is used to return the **height of the detection frame** (the length starting from the top-left corner and extending down the Y axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.
Rotate	Float	This parameter is used to return the **rotation angle of the detection frame**. Valid values: **0–360** (**degrees**), and the direction is **counterclockwise rotation**. This parameter can be combined with the `X` and `Y` coordinate parameters to uniquely determine the specific position of the detection frame.

`ObjectResults` has the following sub-nodes:

Name	Type	Description
Name	String	This field is used to return the name of the recognized object, such as person name.
Location	Container	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the recognition result in the image for you to quickly locate information.

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required
TokenId	Account information, which can contain up to 128 bytes.	String	No
Nickname	Nickname information, which can contain up to 128 bytes.	String	No
DeviceId	Device information, which can contain up to 128 bytes.	String	No
AppId	Unique app ID, which can contain up to 128 bytes.	String	No
Room	Room ID information, which can contain up to 128 bytes.	String	No
IP	IP address information, which can contain up to 128 bytes.	String	No
Type	Business type, which can contain up to 128 bytes.	String	No
ReceiveTokenId	User account to receive messages, which can contain up to 128 bytes.	String	No
Gender	Gender information, which can contain up to 128 bytes.	String	No
Level	Level information, which can contain up to 128 bytes.	String	No
Role	Role information, which can contain up to 128 bytes.	String	No

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`ListInfo` has the following sub-nodes:

Node Name (Keyword)	Type	Description
ListResults	Container Array	Results in all hit lists.

`ListResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
ListType	Integer	Type of the hit list. Valid values: `0` (allowlist), `1` (blocklist).
ListName	String	Name of the hit list.
Entity	String	Entity hit in the list.

Use Cases

Request

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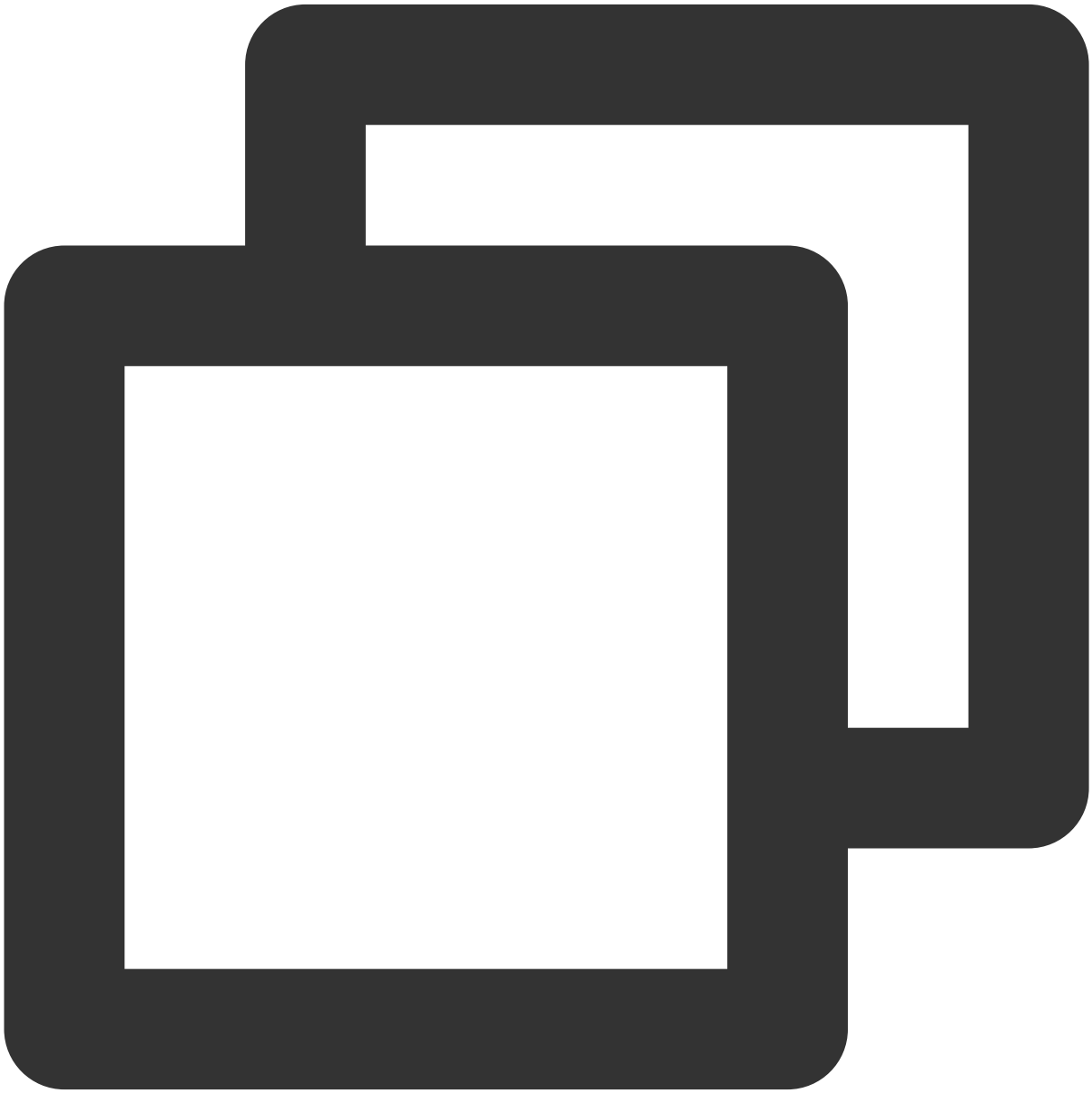

```
GET /image/auditing/iab1ca9fc8a3ed11ea834c525400863904 HTTP/1.1
Accept: */*
Authorization:q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0**********&q-sig
Host:bucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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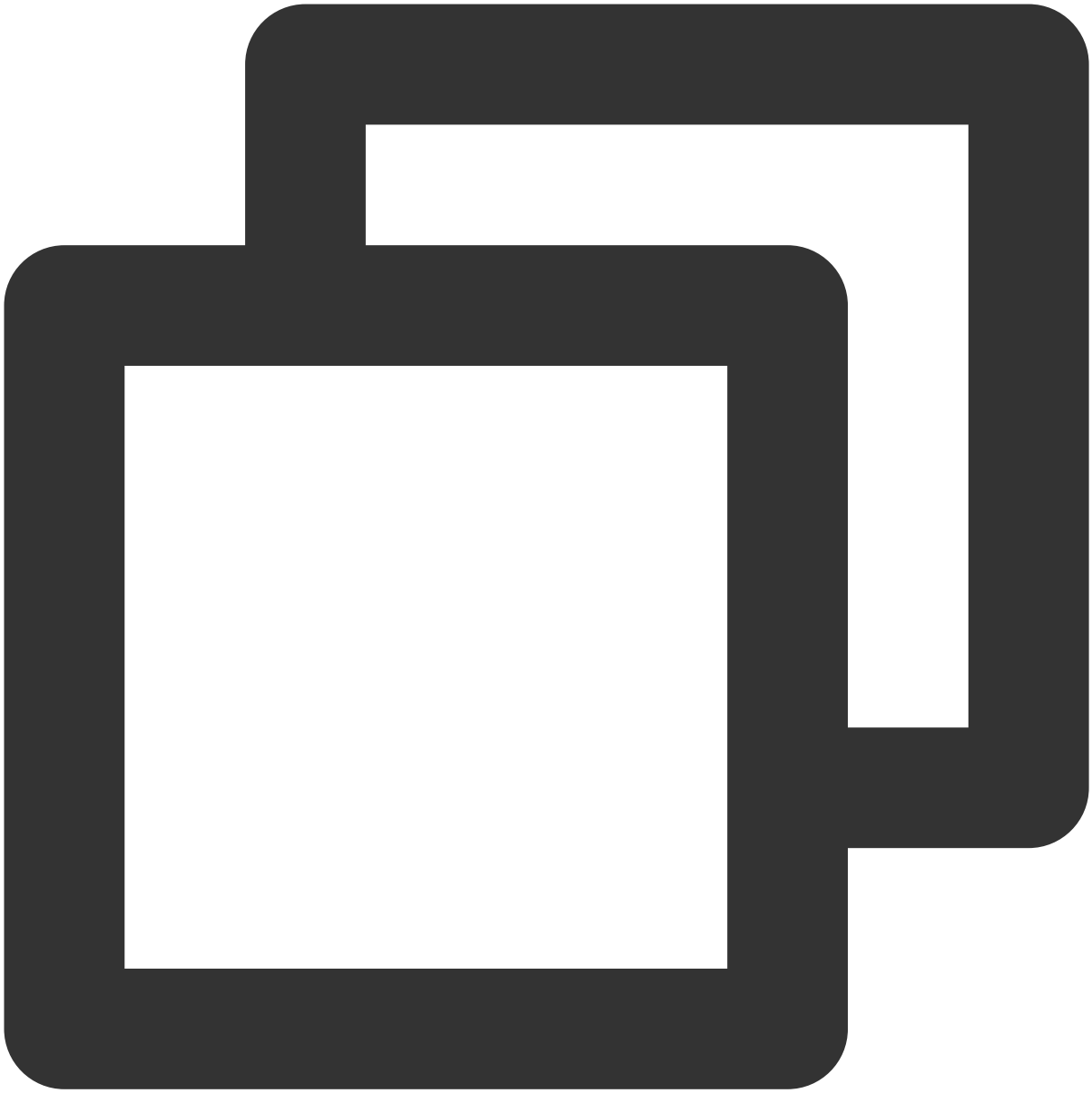

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhfMjc=

<Response>
    <JobsDetail>
        <JobId>iab1ca9fc8a3ed11ea834c525400863904</JobId>
```

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```
        <State>Success</State>
        <CreationTime>2021-05-21T10:44:32+08:00</CreationTime>
        <Object>example.jpg</Object>
        <Label>Ads</Label>
        <Result>1</Result>
        <AdsInfo>
            <HitFlag>1</HitFlag>
            <Label>xxx</Label>
            <SubLabel>SexBehavior</SubLabel>
            <Score>100</Score>
            <OcrResults>
                <Text></Text>
                <Keywords></Keywords>
                <Location>
                    <X></X>
                    <Y></Y>
                    <Width></Width>
                    <Height></Height>
                    <Rotate></Rotate>
                </Location>
            </OcrResults>
        </AdsInfo>
    </JobsDetail>
    <RequestId></RequestId>
</Response>
```

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Image Moderation Callback Content

Last updated：2024-06-12 16:01:53

Feature Description

If you have configured a moderation callback address, after image moderation is completed, the backend will call back the moderation result in JSON format to the callback address. You can perform subsequent file processing operations based on the callback content.
The callback content is divided into simple callback (Simple) and detailed callback (Detail).

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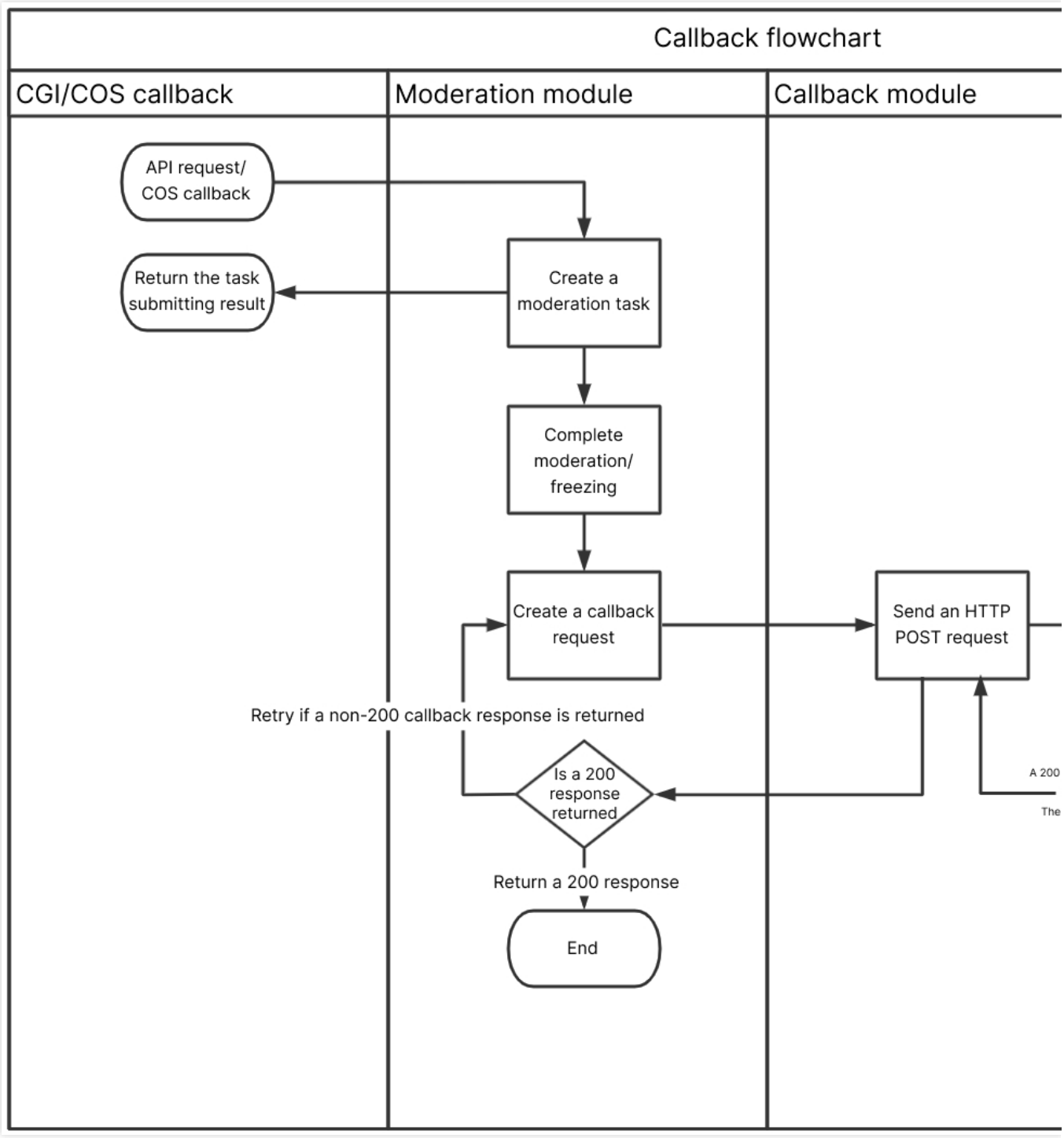

Callback Content Description

Simple callback (Simple)

The callback notification adopts the `POST` method of HTTP, with the `X-Ci-Content-Version: Simple` header.

The response body returns **application/json** data. The following contains all the nodes:

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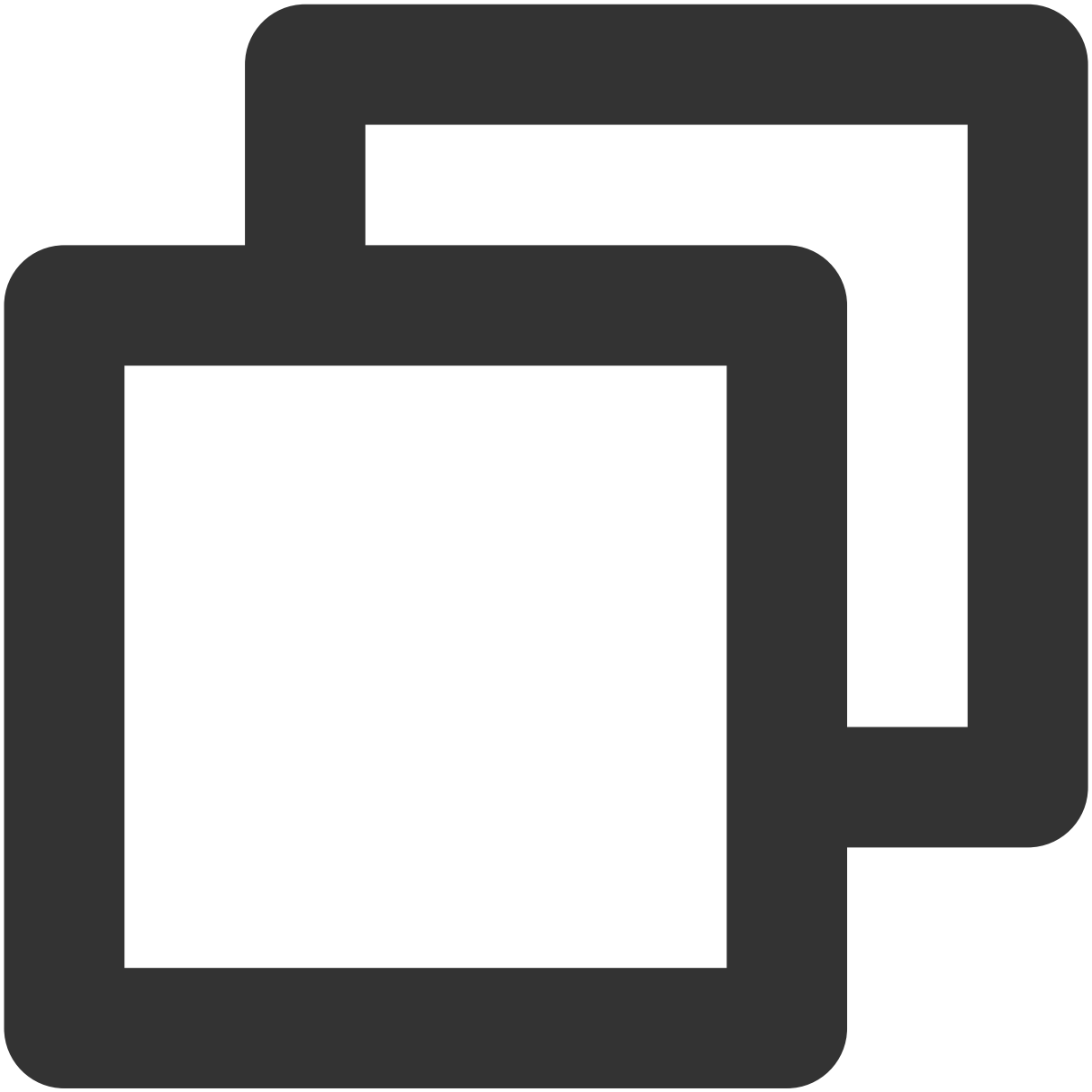


```
{
   "code": 0,
   "data": {
       "forbidden_status": 0,
       "event": "ReviewImage",
       "porn_info": {
           "hit_flag": 0,
           "label": "",
           "score": 9
       },
       "result": 0,
```


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```
        "trace_id": "test_trace_id",
        "url": "https://examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/test.jp
        "cos_headers": {
            "x-cos-meta-xx": "xx"
        }
    },
    "message": "Test request when setting callback url"
}
```

The nodes are described as follows:

Parameter	Description	Type	Required
code	Error code. 0: moderation succeeded; other values: moderation failed. For more information, see Error Codes.	Integer	Yes
message	Error description.	String	Yes
data	Details of the image moderation result.	Object	Yes

`data` is as described below:

Parameter	Description	Type	Required
trace_id	Unique ID.	String	Yes
url	Full URL of the moderated image.	String	Yes
event	Triggered event, which is fixed at `ReviewImage` here.	String	Yes
result	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).	Integer	Yes
forbidden_status	If you set automatic freezing, this field indicates the frozen status of the image. 0: not frozen, 1: frozen, 2: file moved.	Integer	Yes
cos_headers	The custom header content set when the resource is uploaded. If it is not set, it will not be returned.	Object	No
porn_info	The moderation result of the **pornographic information** moderation scene.	Object	No
ads_info	The moderation result of the **advertising information** moderation scene.	Object	No

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`xx_info` is as described below:

Parameter	Description	Type	Required
hit_flag	The moderation result returned for the moderation scene. Returned values: **0** (normal), **1** (confirmed as a violation of the current scene), and **2** (suspected as a violation of the current scene).	Integer	Yes
score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. Generally, a value in the range of 0–60, 61–90, or 91–100 means that the image is normal, suspiciously sensitive, or sensitive respectively. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer	Yes
label	Hit tag name.	String	Yes

Detail callback (Detail)

The callback notification adopts the `POST` method of HTTP, with the `X-Ci-Content-Version: Detail` header.

The response body returns **application/json** data. The following contains all the nodes:

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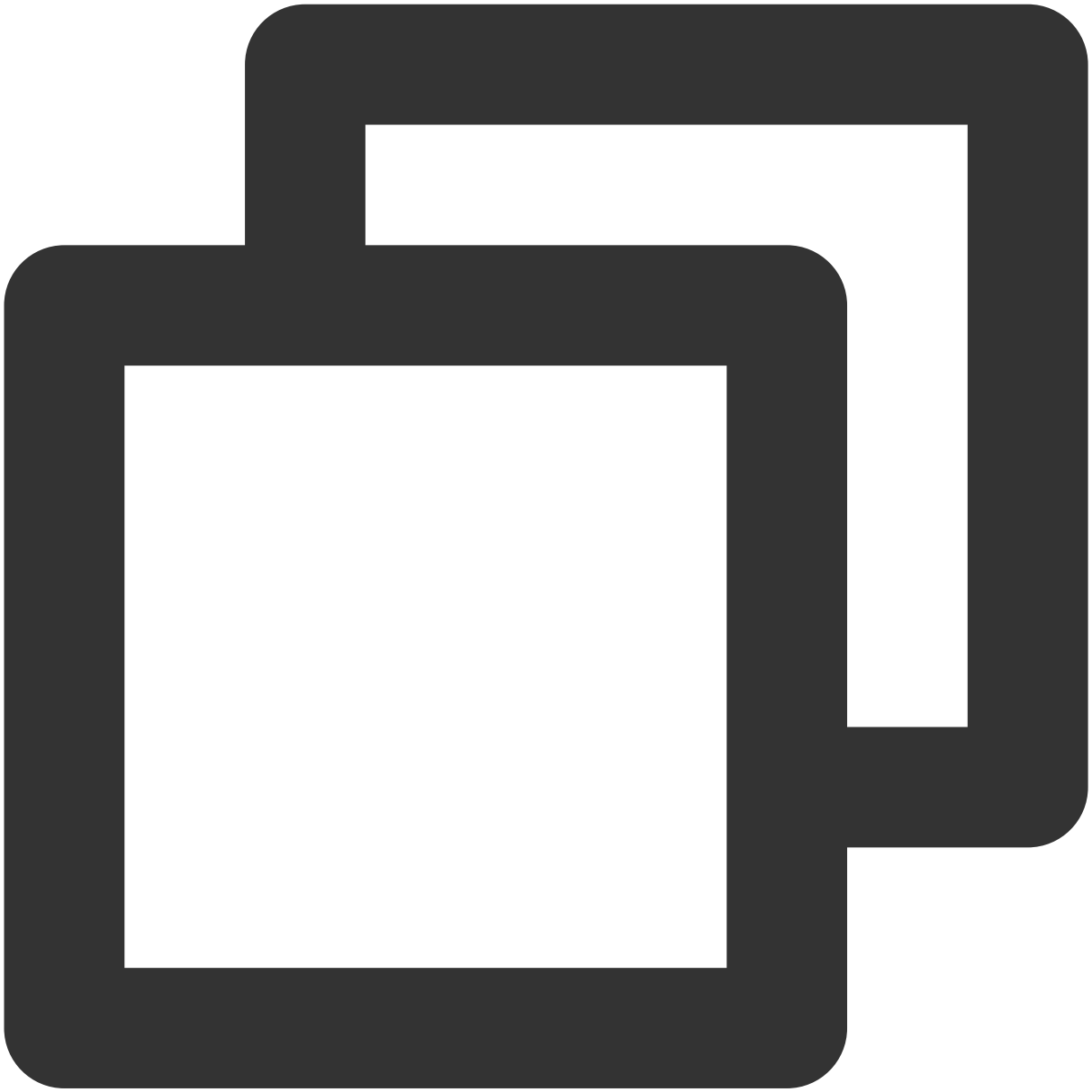


```
{
  "EventName": "ReviewImage",
  "JobsDetail": {
    "JobId": "xxxx",
    "State": "Success",
    "CreationTime": "",
    "Object": "",
    "Url": "https://examplebucket-1250000000.cos.ap-chengdu.myqcloud.com/test.jpg",
    "Label": "Normal",
    "Result": 0,
    "Score": 0,
```


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```
      "Category": "",
      "SubLabel": "",
      "Text": "",
      "PornInfo": {
        "HitFlag": 0,
        "Score": 0,
        "Label": "",
        "Category": "",
        "SubLabel": ""
      },
      "AdsInfo": {
        "HitFlag": 0,
        "Score": 0,
        "Label": "",
        "Category": "",
        "SubLabel": ""
      },
      "BucketId": "examplebucket-1250000000",
      "Region": "ap-chongqing",
      "ForbidState": 0,
      "CosHeaders": {
          "x-cos-meta-id": "xxxx"
      }
    }
}
```

The nodes are described as follows:

Node Name (Keyword)	Description	Type
JobsDetail	Job result details.	Object
EventName	Job type: ReviewImage.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Code	Error code, which will be returned only if `State` is `Failed`. For more information, see Error Codes.	String
Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Moderation job ID.	String
State	Status of the moderation job. Valid values: `Submitted`, `Success`,	String

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	`Failed` , `Auditing` .	
CreationTime	Creation time of the moderation job.	String
CompressionResult	Whether the image is compressed. Valid values: `0` (no), `1` (yes).	Integer
Object	The name of the image file to be moderated, which will be returned if `Object` is selected during job creation.	String
Url	The URL of the image file to be moderated, which will be returned if `Url` is selected during job creation.	String
Label	This field is used to return the **maliciousness tag with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Returned values: `Normal` , `Porn` , `Ads` , and other types of unsafe or inappropriate content.	String
Result	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).	Integer
Score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. Generally, a value in the range of 0–60, 61–90, or 91–100 means that the image is normal, suspiciously sensitive, or sensitive respectively. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer
Category	This field is a subset of `Label` , indicating the specific moderation category hit; for example, `Sexy` presents the sexy category in the `Porn` tag.	String
SubLabel	This field indicates the specific sub-tag hit by the moderation job; for example, `SexBehavior` is a sub-tag under the `Porn` tag.</br>Note: This field may return null, indicating that no specific sub-tags are hit.	String
Text	The specific text content recognized by OCR in the image, which will be returned if OCR is enabled in the moderation policy.	String
PornInfo	The moderation result of the **pornographic information** moderation scene.	Object
AdsInfo	The moderation result of the **advertising information** moderation scene.	Object

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BucketId	Name of the bucket of the created moderation job.	String
Region	Bucket region.	String
ForbidState	If you set automatic freezing, this field indicates the status of the image. 0: not frozen; 1: frozen, 2: file moved.	Integer
CosHeaders	The custom header content set when the resource is uploaded to COS. If it is not set, it will not be returned. It is in a map structure, where `key` is the custom header name and `value` is the content.	Object

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Description	Type
HitFlag	The moderation result returned for the moderation scene. Returned values: **0** (normal), **1** (confirmed as a violation of the current scene), and **2** (suspected as a violation of the current scene).	Integer
Score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. Generally, a value in the range of 0–60, 61–90, or 91–100 means that the image is normal, suspiciously sensitive, or sensitive respectively. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer
Label	This field indicates the overall result tag of the screenshot, which may be `SubLabel` , a person name, etc.	String
Category	The specific moderation category hit; for example, `Sexy` presents the sexy category in the `Porn` tag. This field may return null, indicating that no categories are hit or there is no related category.	String
SubLabel	This field indicates the specific sub-tag hit by the moderation job; for example, `SexBehavior` is a sub-tag under the `Porn` tag. Note: This field may return null, indicating that no specific sub-tags are hit.	String
OcrResults	This field represents the detailed OCR result, including the text recognition result and hit keyword. It will be returned if there is non-compliant content.	Array
LibResults	This field returns results based on recognition against the risk library. Note: This field will not be returned if no samples in the risk library are hit.	Container Array

`LibResults` has the following sub-nodes:

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Node Name (Keyword)	Description	Type
ImageId	This field represents the hit image sample ID in the risk library.	String
Score	This field returns the confidence under the current tag. Value range: 0–100. The higher the value, the more likely the image hits a sample in the risk library. For example, `Porn 99` means that the content is very likely to hit a pornographic sample in the library.	Integer

`OcrResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Text	The specific text content recognized by OCR in the image.	String
Keywords	Keywords hit by the current moderation scene.	Array
Location	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the OCR detection frame in the image for quick location of the recognized text.	Object

`ObjectResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Name	This field is used to return the name of the recognized object, such as person name.	String
Location	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the recognition result in the image for you to quickly locate information.	Object

`Location` has the following sub-nodes:

Node Name (Keyword)	Description	Type
X	This parameter is used to return the pixel position of the **abscissa (X) of the top-left corner** of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Y	This parameter is used to return the pixel position of the **ordinate of the top-left**	Float

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	corner (Y) of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	
Height	This parameter is used to return the **height of the detection frame** (the length starting from the top-left corner and extending down the Y axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Width	This parameter is used to return the **width of the detection frame** (the length starting from the top-left corner and extending to the right on the X axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Rotate	This parameter is used to return the **rotation angle of the detection frame**. Valid values: **0–360** (**degrees**), and the direction is **counterclockwise rotation**. This parameter can be combined with the `X` and `Y` coordinate parameters to uniquely determine the specific position of the detection frame.	Float

Examples

Sample 1: Simple callback (Simple)

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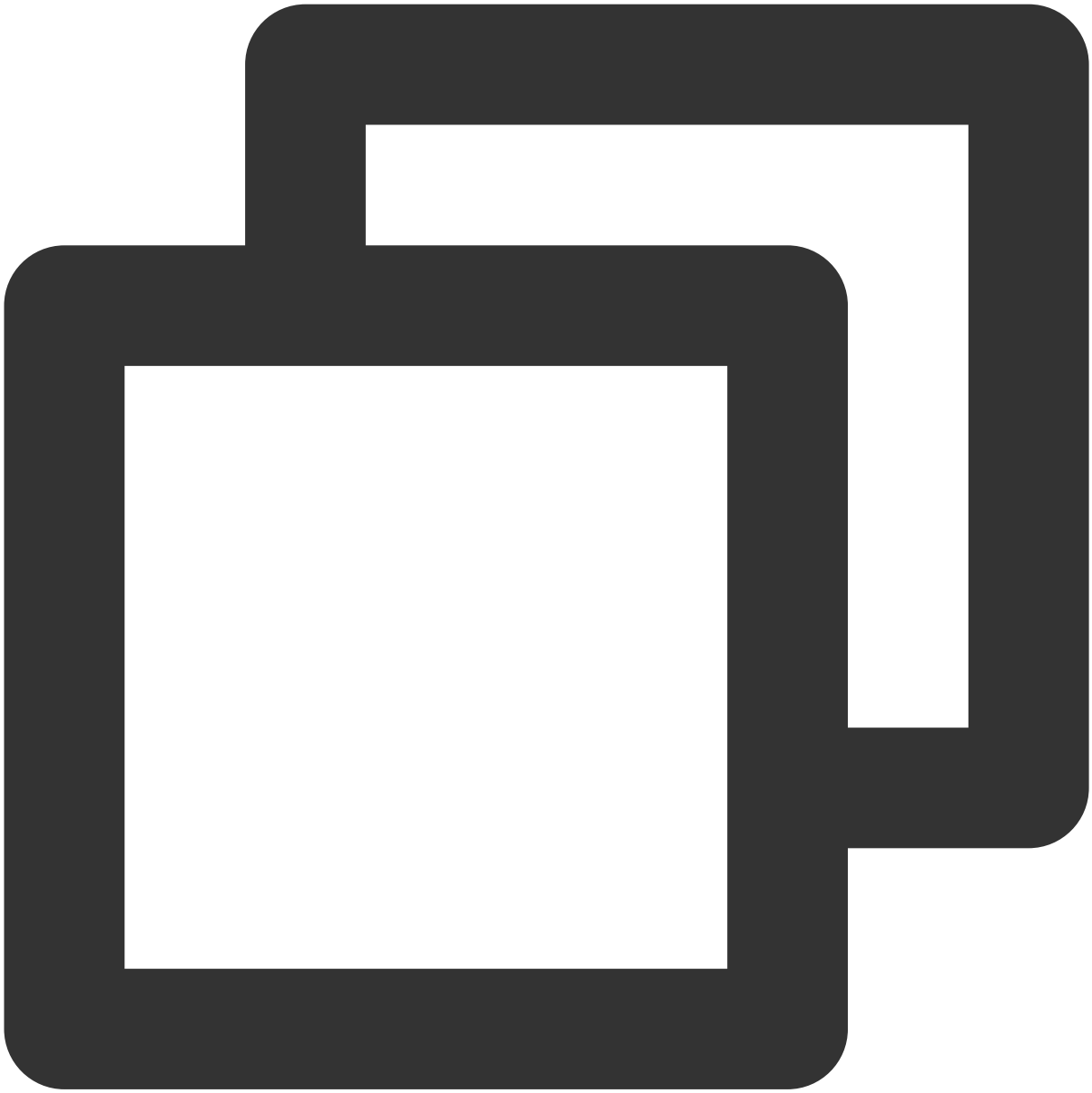


```
{
   "code": 0,
   "data": {
       "event":"ReviewImage",
       "forbidden_status": 0,
       "porn_info": {
           "hit_flag": 0,
           "label": "",
           "score": 9
       },
       "result": 0,
```


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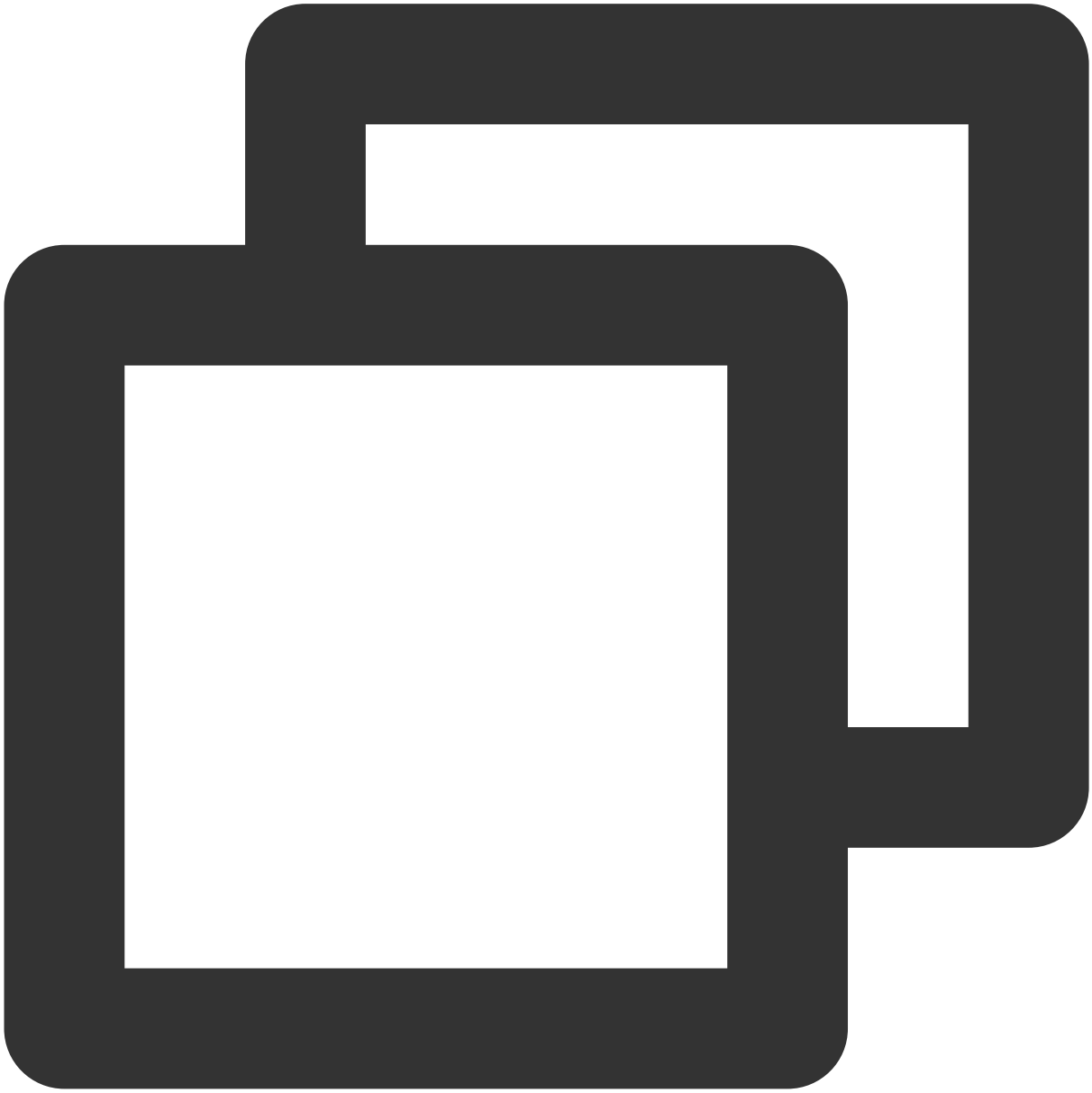
```
        "trace_id": "ixzt90jl2dfscxxxxxxxxxxxxxxxx",
        "url": "https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/test.j
        "cos_headers": {
            "x-cos-meta-id": "666666"
        }
    },
    "message": "success"
}
```

Sample 2: Detailed callback (Detail)



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```
{
  "EventName": "ReviewImage",
  "JobsDetail": {
    "JobId": "xxxx",
    "State": "Success",
    "CreationTime": "2021-08-10T21:01:10+08:00",
    "CompressionResult": 0,
    "Object": "1.jpg",
    "Label": "Normal",
    "Result": 0,
    "Score": 0,
    "Category": "",
    "SubLabel": "",
    "Text": "",
    "PornInfo": {
      "HitFlag": 0,
      "Score": 0,
      "Label": "",
      "Category": "",
      "SubLabel": ""
    },
    "AdsInfo": {
      "HitFlag": 0,
      "Score": 0,
      "Label": "",
      "Category": "",
      "SubLabel": ""
    },
    "BucketId": "examplebucket-1250000000",
    "Region": "ap-chongqing",
    "ForbidState": 0,
    "CosHeaders": {
        "x-cos-meta-id": "xxxx"
    }
  }
}
```


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Reporting Image Moderation Result

Last updated：2024-06-12 16:01:53

Feature Description

This API is used to report moderation results that are not as expected. For example, when a pornographic image is moderated and determined as normal, or a normal image is determined as pornographic, you can directly report the result through this API.
This API will not directly modify the moderation result. The incorrect moderation result you report will be confirmed on the backend, and the confirmed result will take effect in subsequent moderation jobs.

Request

Sample request

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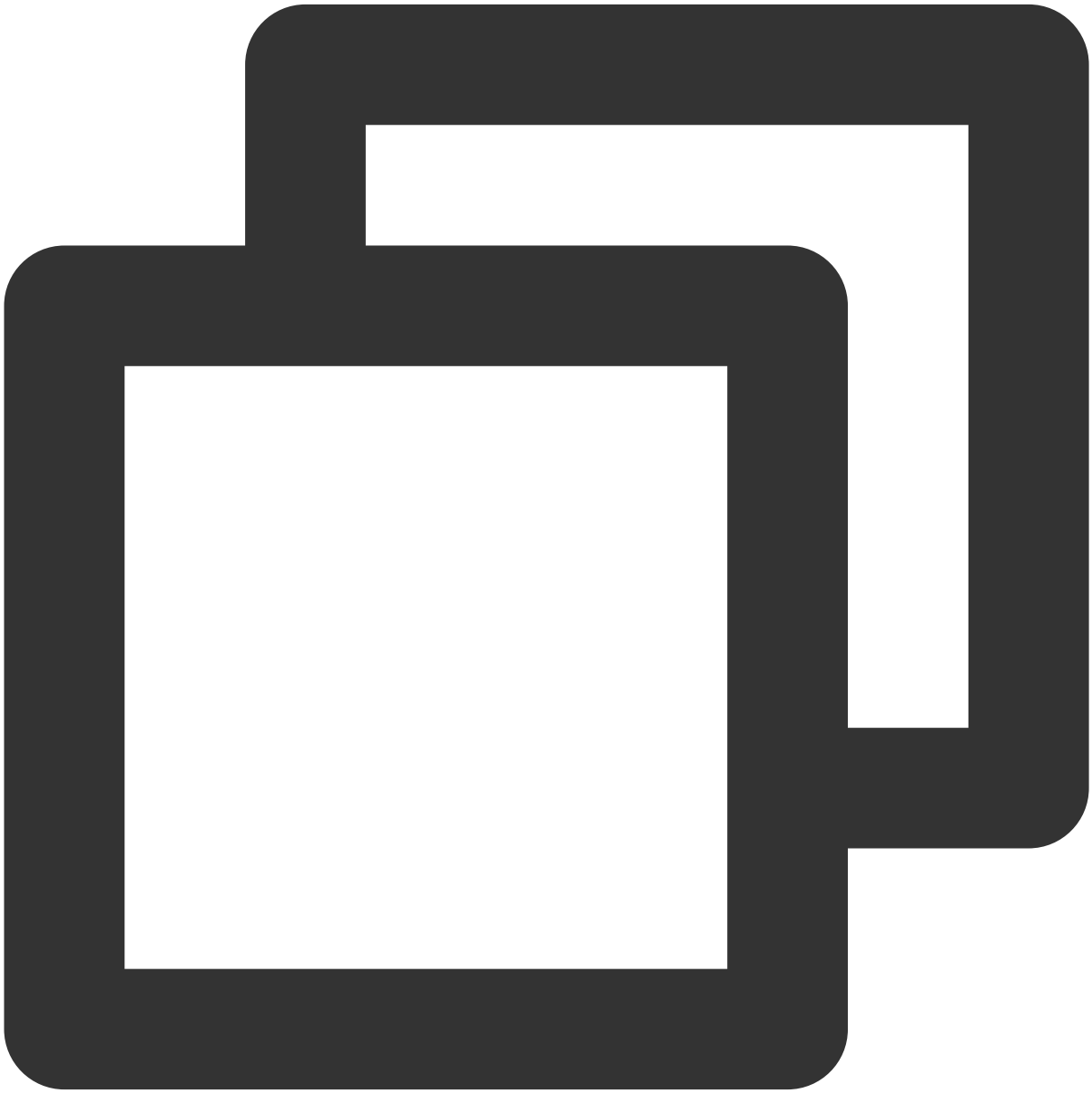

```
POST /report/badcase HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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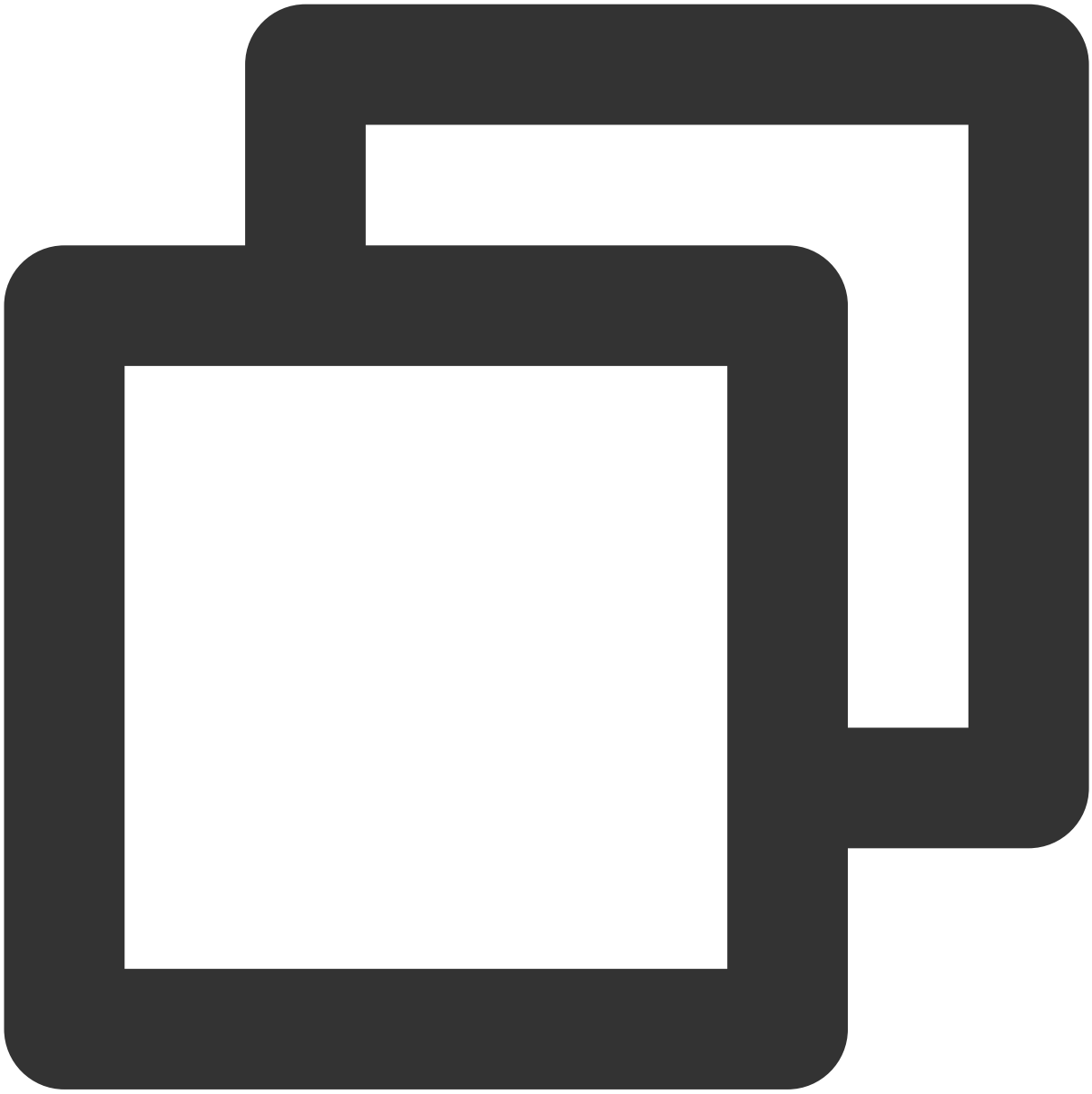
Authorization: Auth String (for more information, see Request Signature).

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
    <ContentType></ContentType>
```

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```
    <JobId></JobId>
    <ModerationTime></ModerationTime>
    <Url></Url>
    <SuggestedLabel></SuggestedLabel>
    <Label></Label>
</Request>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Specific parameters for reporting incorrect moderation results	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
ContentType	Request	Type of the data to be reported. The value for incorrect image sample is 2.	Integer	Yes
Url	Request	Image sample. You need to enter the URL of the image, which is required if `ContentType` is 2.	String	No
Label	Request	Tag of the moderation result returned by CI, such as `Porn`.	String	Yes
SuggestedLabel	Request	Tag of the correct moderation result you expect, such as `Normal`.	String	Yes
JobId	Request	Moderation job ID corresponding to the data sample, which is helpful for locating moderation records.	String	No
ModerationTime	Request	The time when the data sample was moderated, which is helpful for locating moderation records. The value format is `2021-08-07T12:12:12+08:00`.	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

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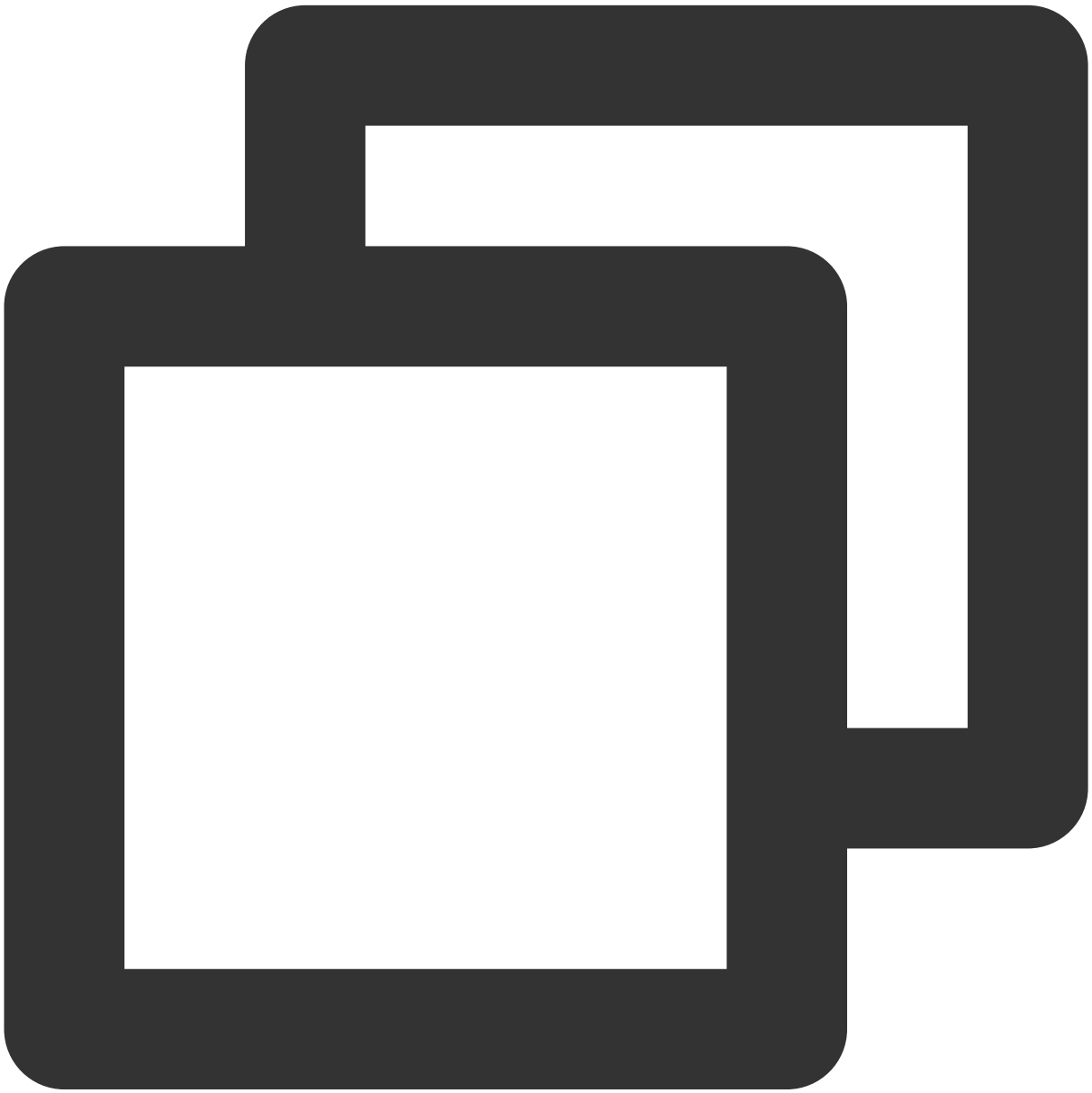
The response body returns **application/xml** data. The following contains all the nodes:



```
<Response>
    <RequestId></RequestId>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Specific response content.	Container

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`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
RequestId	Response	The ID automatically generated by the server for a request when the request is sent, which can help locate problems faster.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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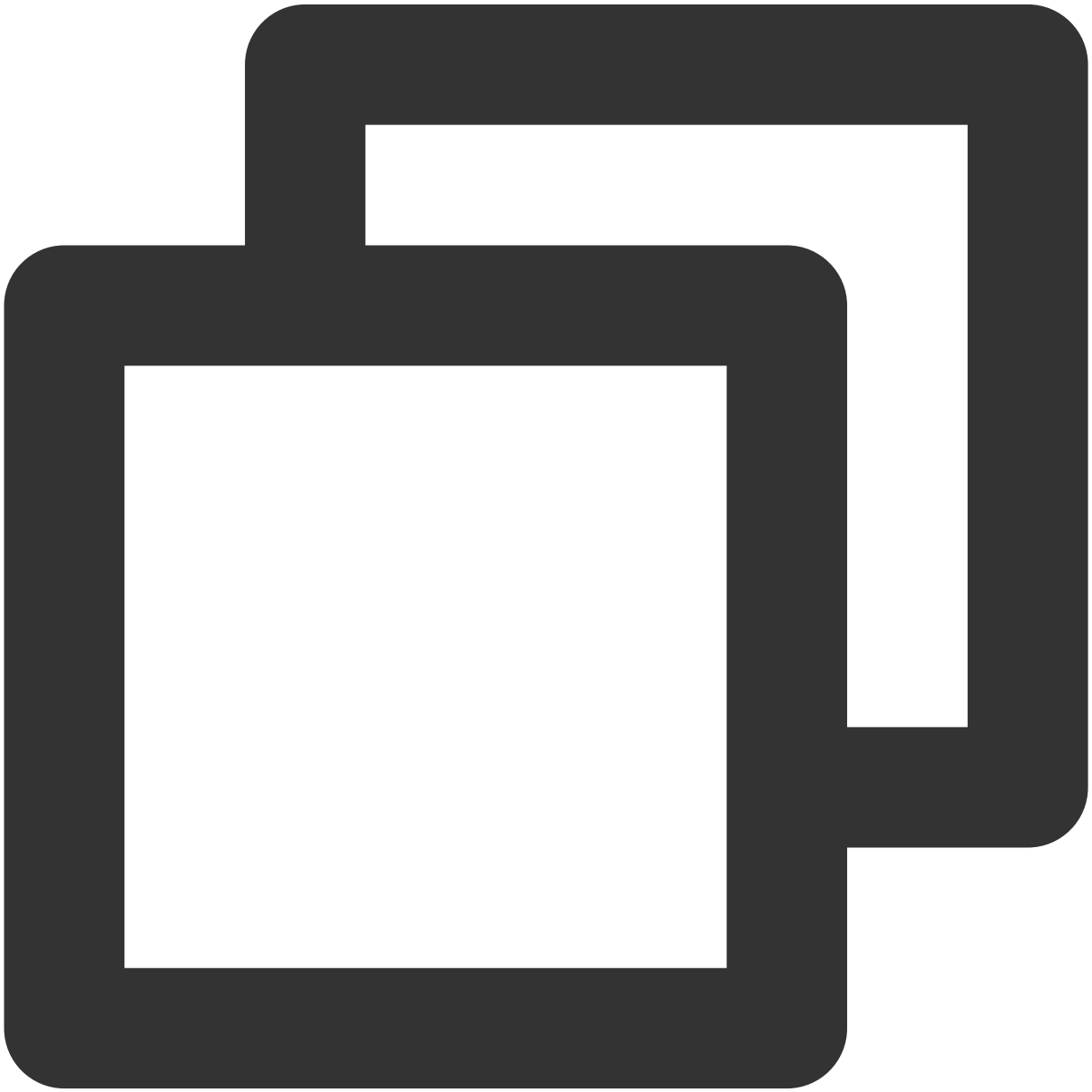

```
POST /report/badcase HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1********&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 66
Content-Type: application/xml
<Request>
    <ContentType>1</ContentType>
    <Url>http://www.example.com/abc.jpg</Url>
    <Label>Porn</Label>
    <SuggestedLabel>Normal</SuggestedLabel>
</Request>
```

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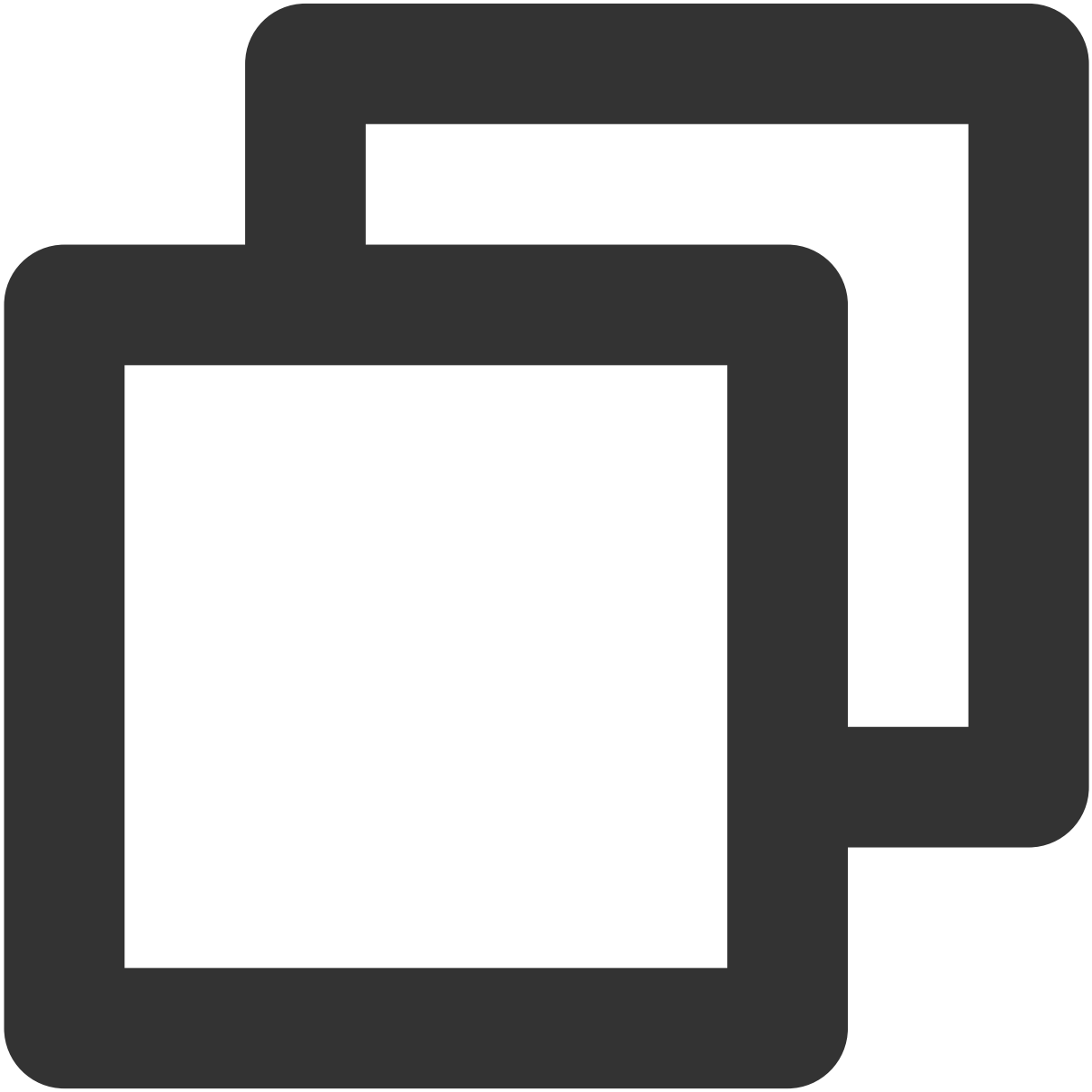
Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Thu, 15 May 2022 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****
```

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```
<Response>
    <RequestId>xxxxxxxxxxxxxx</RequestId>
</Response>
```

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Video Moderation
Submitting Video Moderation Job

Last updated：2024-06-12 16:01:53

Feature Overview

This API is used to submit a video moderation job. The video moderation feature is async. You can submit a job to moderate your video files, and then use the API for Querying Video Moderation Job Result or Video Moderation Callback Content to query the moderation results.
The API supports the following operations:
Note:
You can moderate video files stored in COS.
You can moderate videos at URLs of a third-party cloud storage vendor.
To moderate encrypted data, please contact us.
Automatically detect video files and recognize non-compliant content in OCR, object detection (such as object, advertising logo, and QR code), image recognition, and audio recognition dimensions based on the deep learning technology.
Get the detection results by setting the callback address `Callback` or calling the API for Querying Video Moderation Job Result.
Recognize various non-compliant scenes, including pornographic, illegal, and advertising information.
Customize moderation policies based on different business scenarios as instructed in Setting Moderation Policy.
Customize risk libraries as instructed in Setting Custom Risk Library to filter non-compliant custom content.

Billing Details

Video moderation is divided into **video image moderation**, **video frame capturing**, and **video sound moderation** as detailed below:
Video image moderation: Based on the video frame capturing capability, this service takes video screenshots for moderation. The moderation fees are the same as those incurred by image moderation.
Video frame capturing will incur video frame capturing fees as described in Media Processing Fees.
Video sound moderation: This service extracts sound from the video for sound moderation. The moderation fees are the same as those incurred by audio moderation.
Each moderation scene is billed separately. For example, if you choose to moderate **one video file** in two scenes involving pornography and advertising, you will be charged **twice**.

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Calling the API will incur image moderation fees, audio moderation fees, and COS read request fees.
If the video files are stored in COS STANDARD_IA storage class, calling the moderation API will incur STANDARD_IA data retrieval fees as described in Data Retrieval Fees.
Video moderation is not supported for objects stored in the ARCHIVE or DEEP ARCHIVE storage classes. To moderate these objects, you first need to restore them as instructed in POST Object restore.

Restrictions

Supported video file size: **< 5 GB**
Supported video file format: FLV, MKV, MP4, RMVB, AVI, WMV, 3GP, MOV, M3U8, or M4V.
You can configure to moderate video image and/or video sound.

SDK Recommendation

COS SDK provides complete capabilities of demo, automatic integration, and signature calculation. You can easily and quickly call APIs through the SDK. For more information, see SDK Overview.

Request

Sample request

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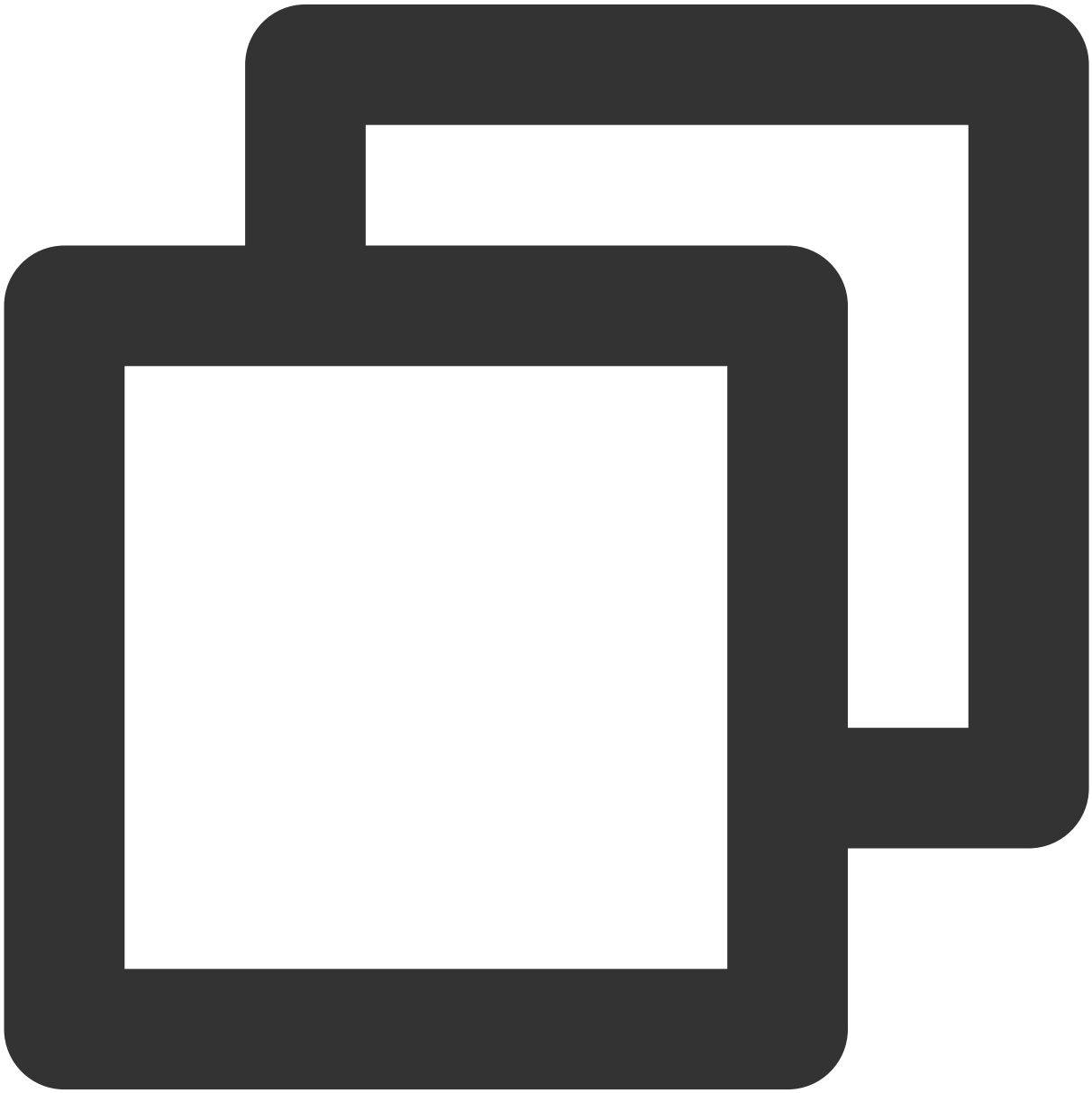

```
POST /video/auditing HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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Authorization: Auth String (see Request Signature for more information)

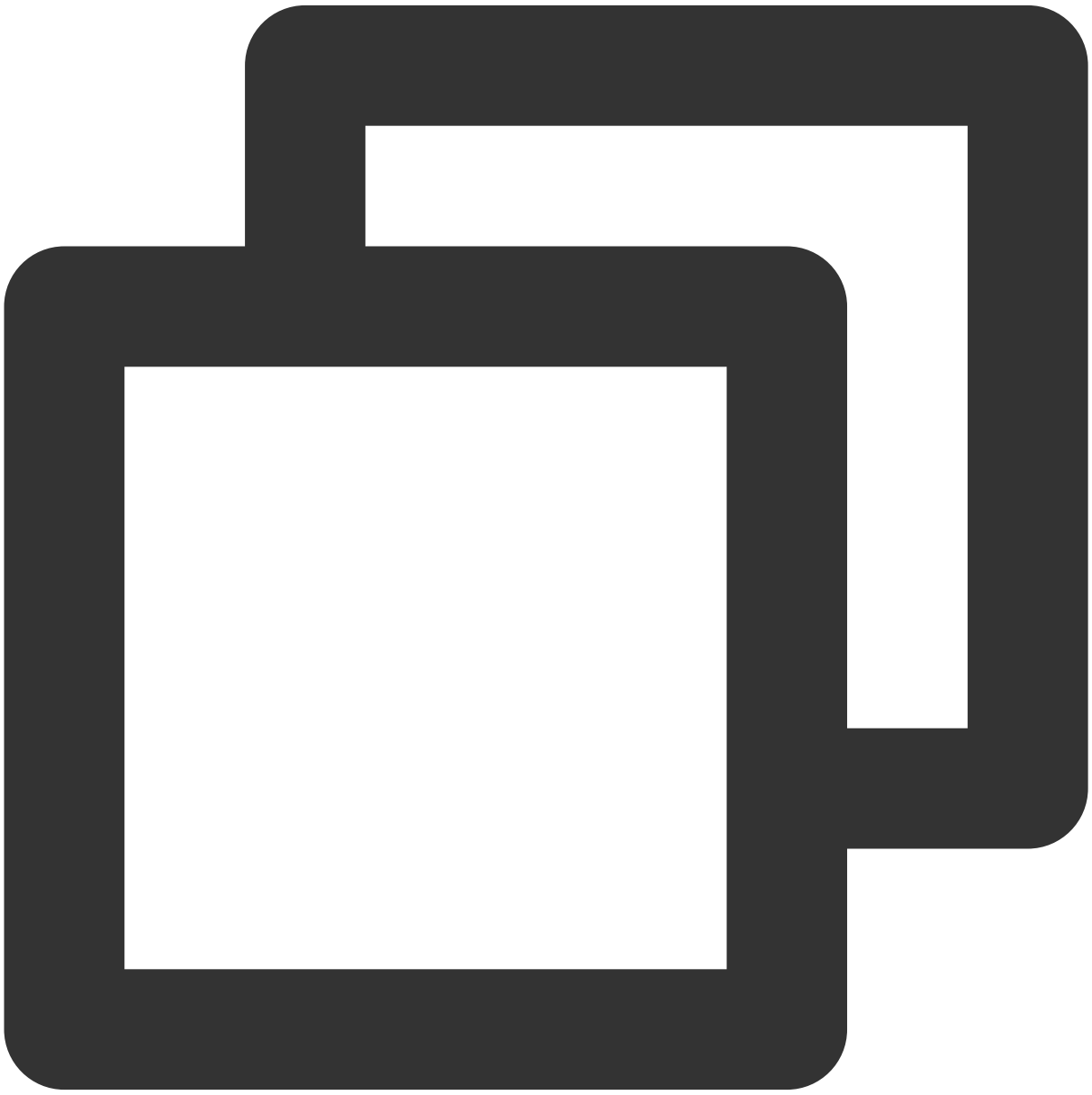
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:



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```
<Request>
  <Input>
    <Object></Object>
    <DataId></DataId>
  </Input>
  <Conf>
    <Snapshot>
        <Mode>Interval</Mode>
        <TimeInterval></TimeInterval>
        <Count></Count>
    </Snapshot>
    <Callback></Callback>
    <BizType></BizType>
    <DetectContent></DetectContent>
  </Conf>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Video moderation configuration.	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Input	Request	Video to be moderated.	Container	Yes
Conf	Request	Moderation rule configuration.	Container	Yes

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Name of the video file stored in the COS bucket; for example, if the file is `video.mp4` in the `test` directory, then the filename is `test/video.mp4` .	String	No
Url	Request.Input	Full URL of the video file, such as `http://examplebucket-1250000000.cos.ap-`	String	No

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		`shanghai.myqcloud.com/test.mp4` . Either `Object` or `Url` can be selected at a time.		
DataId	Request.Input	This field will return the original content in the moderation result, which can contain up to 512 bytes. You can use this field to uniquely identify the data to be moderated in your business.	String	No
UserInfo	Request.Input	Business field.	Container	No

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TokenId	Request.Input.UserInfo	Business `TokenId` , which can contain up to 128 bytes.	String	No
Nickname	Request.Input.UserInfo	Business `Nickname` , which can contain up to 128 bytes.	String	No
DeviceId	Request.Input.UserInfo	Business `DeviceId` , which can contain up to 128 bytes.	String	No
AppId	Request.Input.UserInfo	Business `AppId` , which can contain up to 128 bytes.	String	No
Room	Request.Input.UserInfo	Business `Room` , which can contain up to 128 bytes.	String	No
IP	Request.Input.UserInfo	Business `IP` , which can contain up to 128 bytes.	String	No
Type	Request.Input.UserInfo	Business `Type` , which can contain up to 128 bytes.	String	No
ReceiveTokenId	Request.Input.UserInfo	Business `ReceiveTokenId` , which can contain up to 128 bytes.	String	No
Gender	Request.Input.UserInfo	Business `Gender` , which can contain up to 128 bytes.	String	No
Level	Request.Input.UserInfo	Business `Level` , which can contain up to 128 bytes.	String	No
Role	Request.Input.UserInfo	Business `Role` , which can contain up to 128 bytes.	String	No

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`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
BizType	Request.Conf	Unique identifier of the moderation policy. You can configure the scenes you want to moderate on the moderation policy page in the console, such as pornographic, advertising, and illegal information. For configuration guidelines, see Setting Moderation Policy. You can get `BizType` in the console. If `BizType` is specified, the moderation request will perform moderation based on the scenes configured in the moderation policy. If `BizType` is not specified, the default moderation policy will be used automatically.	String	No
Snapshot	Request.Conf	Video image moderation is implemented by taking a certain number of screenshots based on the video frame capturing capability and then moderating the screenshots one by one. This parameter is used to specify the configuration of video frame capturing.	Container	Yes
Callback	Request.Conf	Callback address, which must start with `http://` or `https://`.	String	No
CallbackVersion	Request.Conf	Structure of the callback content. Valid values: `Simple` (the callback content contains basic information), `Detail` (the callback content contains detailed information). Default value: `Simple`.	String	No
DetectContent	Request.Conf	Whether to moderate video sound. Valid values: `0` (moderates the video image only), `1` (moderates both the video image and video sound). Default value: `0`.	Integer	No
CallbackType	Request.Conf	Callback segment type. Valid values: `1` (calls back all captured frames and audio segments); `2` (calls back non-compliant captured frames and audio segments). Default value: `1`.	Integer	No

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Freeze	Request.Conf	Automatic freezing configuration, which can be used to automatically freeze the results with the specified moderation score.	Container	No

`Snapshot` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Mode	Request.Conf.Snapshot	Frame capturing mode. Valid values: `Interval`, `Average`, `Fps`. `Interval`: Indicates the interval mode. A frame is captured every `TimeInterval` seconds. If `Count` is set but `TimeInterval` is not, a total of `Count` frames will be captured. `Average`: Indicates the average mode. The `TimeInterval` parameter does not take effect. The `Count` parameter is used to specify the number of images to capture at an average interval in the entire video. `Fps`: Indicates the fixed frame rate mode. `TimeInterval` indicates the number of frames to capture per second. If `TimeInterval` is not set, `Count` indicates the total number of frames to capture.	String	No
Count	Request.Conf.Snapshot	The number of captured frames. Value range: (0, 10000].	Integer	Yes
TimeInterval	Request.Conf.Snapshot	Video frame capturing frequency. Value range: (0, 60] seconds. The value supports the float format, accurate to the millisecond.	Float	No

`Freeze` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
PornScore	Request.Conf.Freeze	The threshold at or above which automatic freezing will be performed for the porn	Integer	No

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		moderation result. Value range: [0,100]. If this field is left empty (default value), automatic freezing will not be performed.		
AdsScore	Request.Conf.Freeze	The threshold at or above which automatic freezing will be performed for the ad moderation result. Value range: [0,100]. If this field is left empty (default value), automatic freezing will not be performed.	Integer	No

For freezing parameters in other moderation scenes, contact the customer service.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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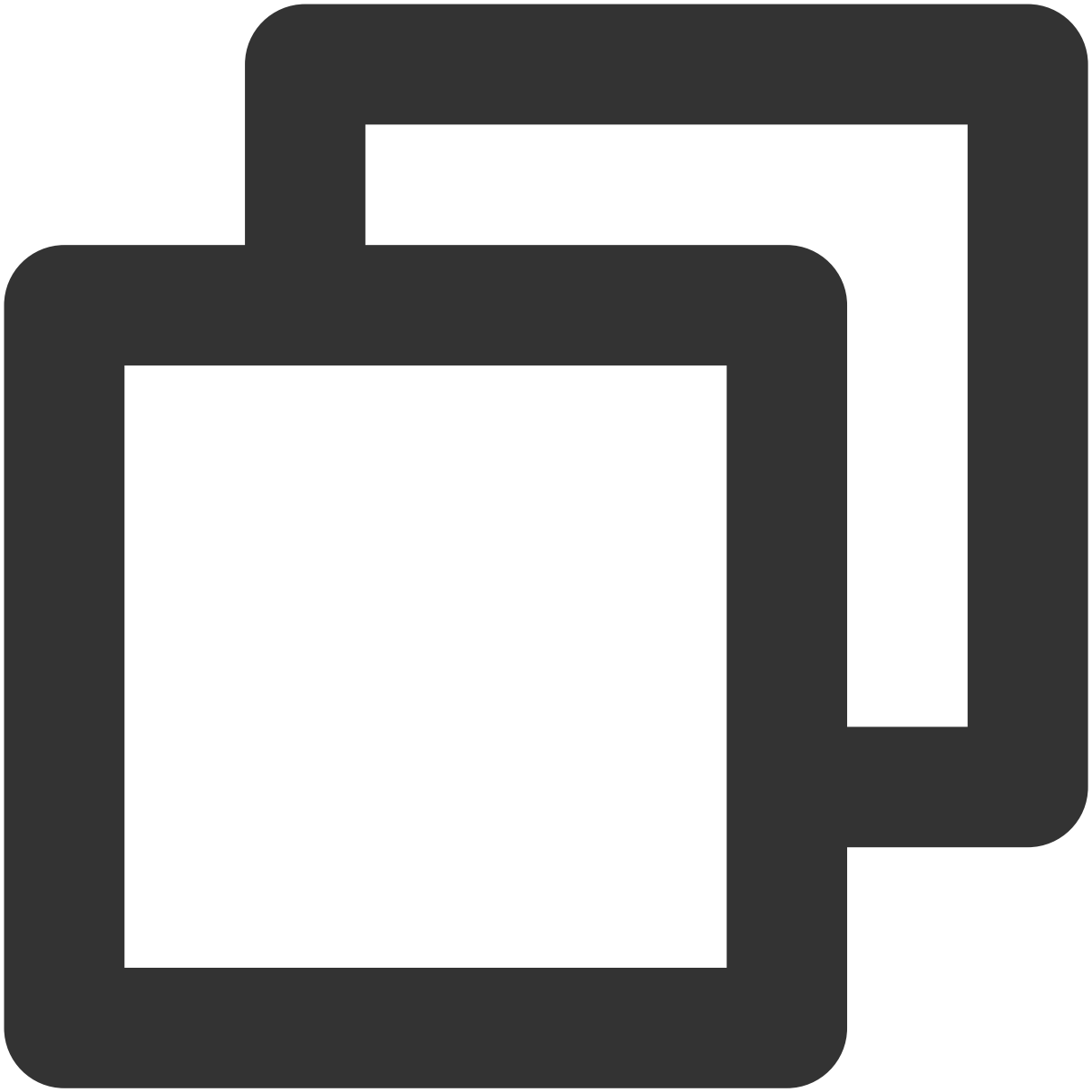

```
<Response>
    <JobsDetail>
      <DataId></DataId>
      <JobId></JobId>
      <State></State>
      <CreationTime></CreationTime>
    </JobsDetail>
    <RequestId></RequestId>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	The specific response content returned by video moderation.	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Details of the video moderation job.	Container
RequestId	Response	ID automatically generated by the server for a request when the request is sent, which can be used to facilitate fault locating.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
DataId	Response.JobsDetail	Unique business ID added in the request.	String
JobId	Response.JobsDetail	ID of the video moderation job.	String
State	Response.JobsDetail	Status of the video moderation job. Valid values: `Submitted`, `Snapshoting`, `Success`, `Failed`, `Auditing`.	String
CreationTime	Response.JobsDetail	Creation time of the video moderation job.	String

Error codes

No special error message will be returned for this request. For the common error messages, see Error Codes.

Use Cases

Request

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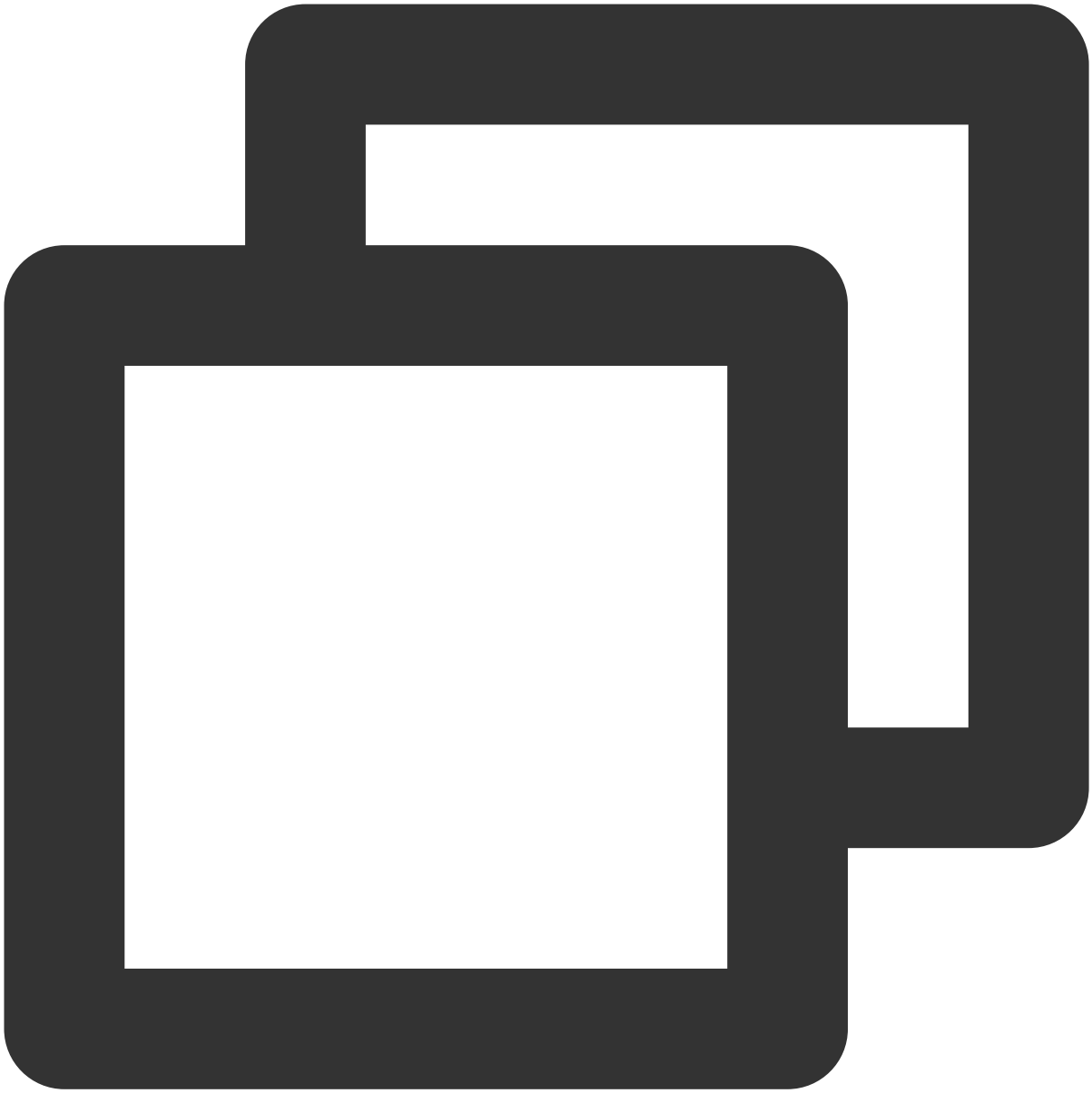

```
POST /video/auditing HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
  <Input>
    <Object>a.mp4</Object>
    <DataId>123-fdrsg-123</DataID>
  </Input>
```

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```
    <Conf>
      <Snapshot>
          <Mode>Interval</Mode>
          <TimeInterval>50</TimeInterval>
          <Count>100</Count>
      </Snapshot>
      <Callback>http://callback.com/</Callback>
      <BizType>b81d45f94b91a683255e9a9506f45a11</BizType>
      <DetectContent>1</DetectContent>
    </Conf>
</Request>
```

Response

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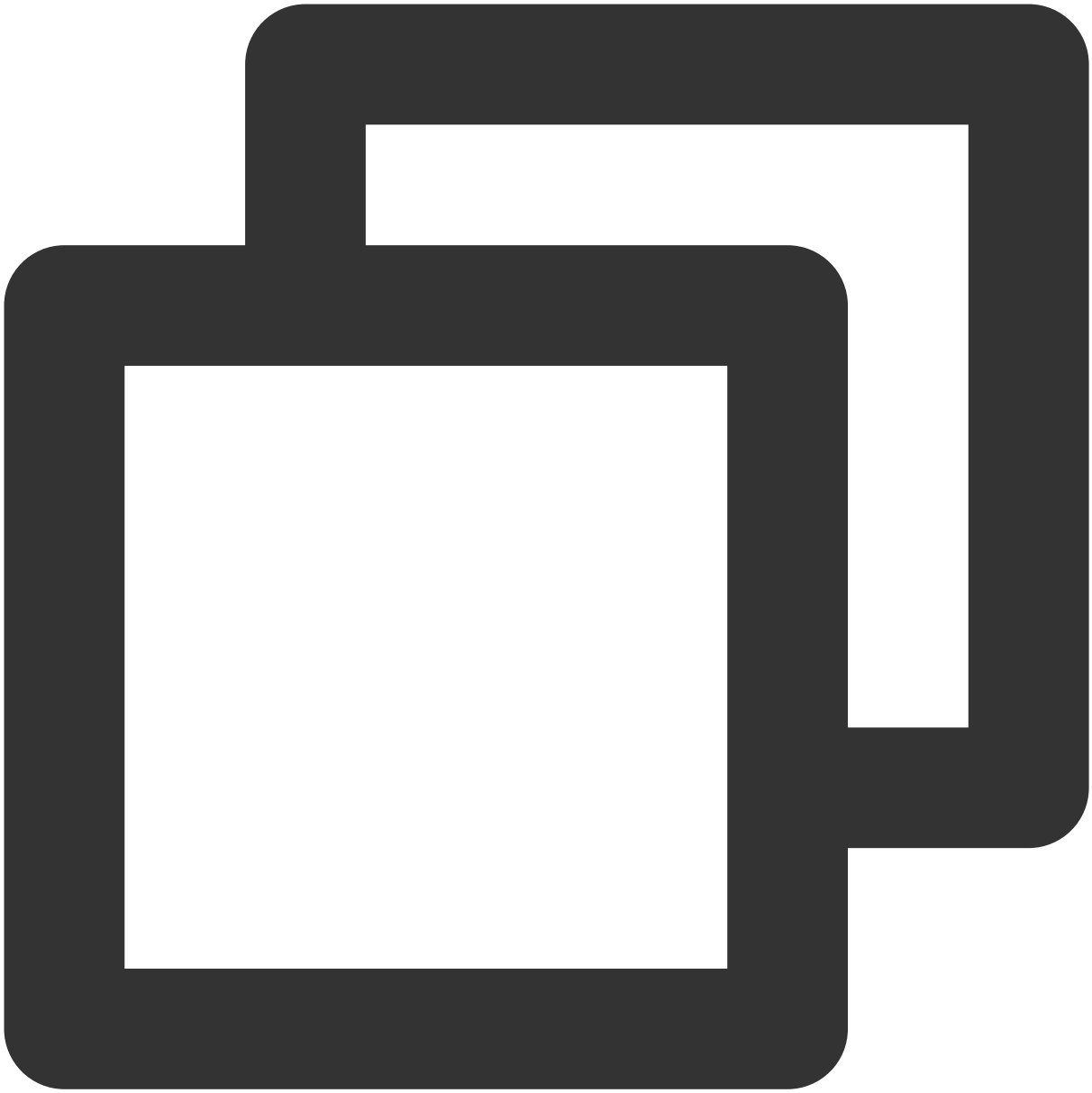

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
  <JobsDetail>
    <DataId>123-fdrsg-123</DataID>
```

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```
    <JobId>vab1ca9fc8a3ed11ea834c525400863904</JobId>
    <State>Submitted</State>
    <CreationTime>2021-08-07T12:12:12+0800</CreationTime>
  </JobsDetail>
  <RequestId>xxxxxxxxxxxxxx</RequestId>
</Response>
```

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Querying Video Moderation Job Result

Last updated：2024-06-12 16:01:53

Feature Overview

This API is used to query the result of a specified video moderation job. The video moderation feature is async. You can submit a job to moderate your video files, and then use the API for querying video moderation job result to query the moderation results.

Note:

Video moderation results are retained for one month, so you can query moderation results in the past month through this API.

SDK Recommendation

COS SDK provides complete capabilities of demo, automatic integration, and signature calculation. You can easily and quickly call APIs through the SDK. For more information, see SDK Overview.

Request

Sample request

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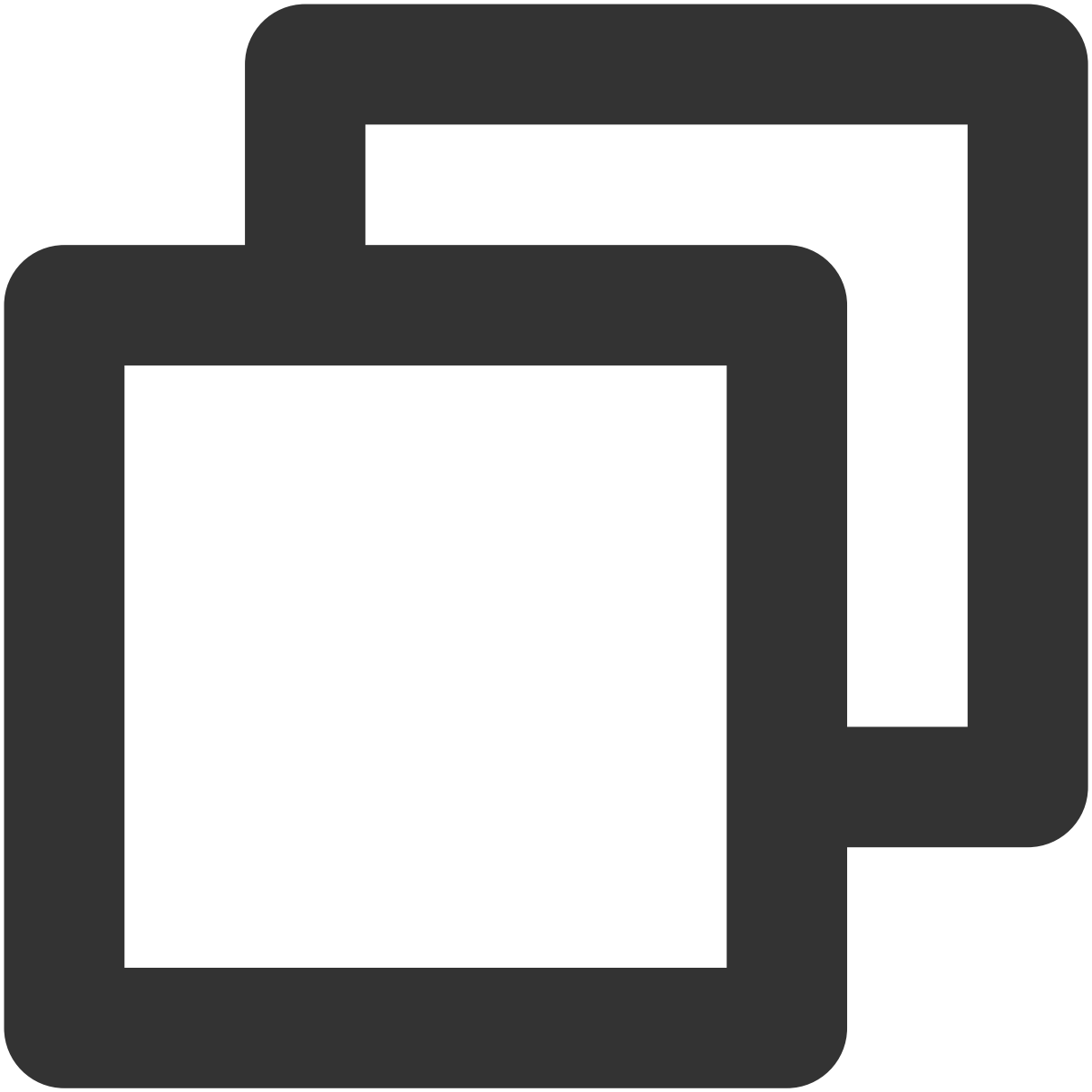

```
GET /video/auditing/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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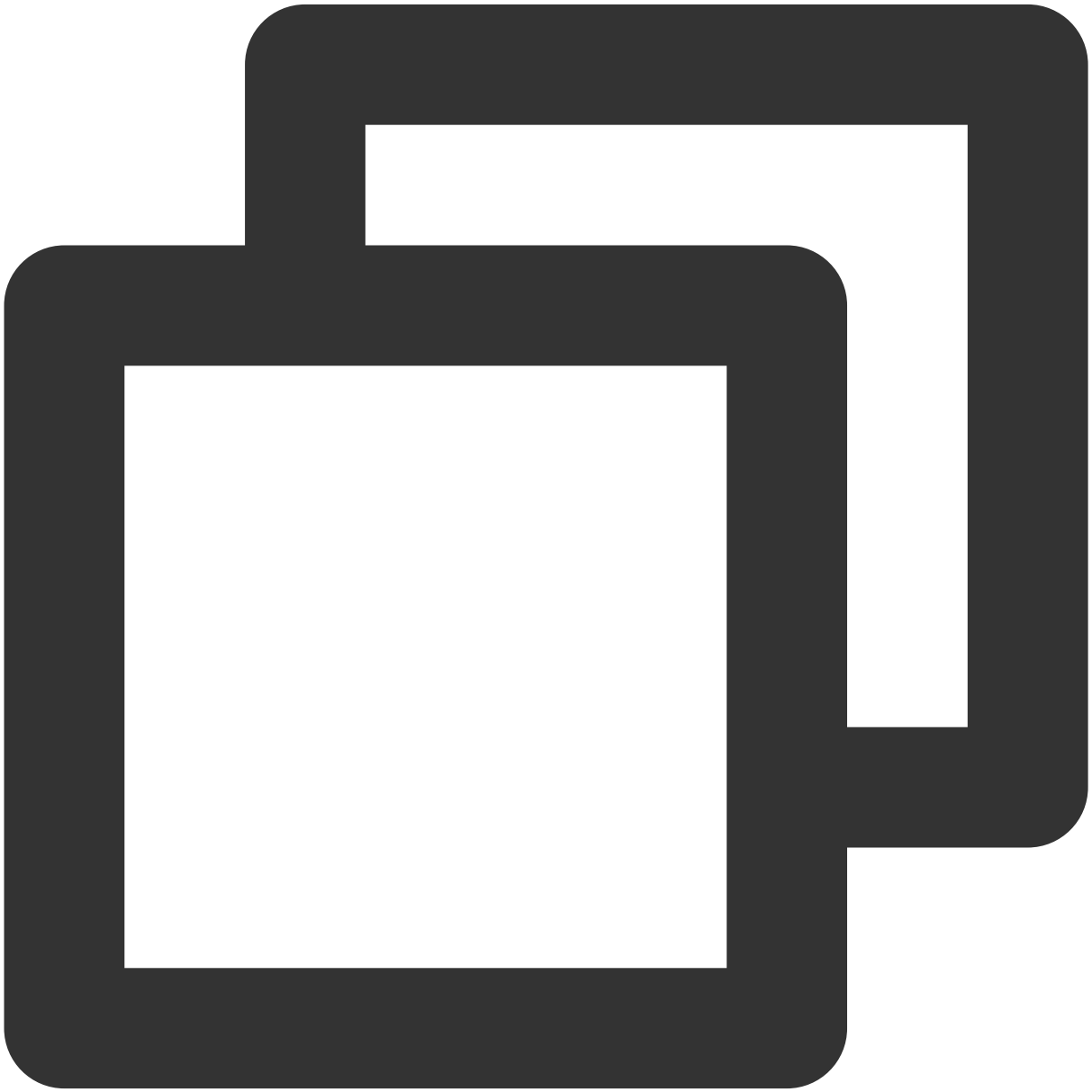

```
<Response>
  <JobsDetail>
    <Code>Success</Code>
    <Message>Success</Message>
    <DataId></DataId>
    <JobId></JobId>
    <State></State>
    <CreationTime></CreationTime>
    <Object></Object>
    <SnapshotCount></SnapshotCount>
    <Result>1</Result>
```

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```
    <PornInfo>
        <HitFlag></HitFlag>
        <Count></Count>
    </PornInfo>
    <AdsInfo>
        <HitFlag></HitFlag>
        <Count></Count>
    </AdsInfo>
    <Snapshot>
        <Url></Url>
        <Text></Text>
        <SnapshotTime></SnapshotTime>
        <PornInfo>
            <HitFlag></HitFlag>
            <Score></Score>
            <Label></Label>
            <SubLabel></SubLabel>
        </PornInfo>
        <AdsInfo>
            <HitFlag></HitFlag>
            <Score></Score>
            <Label></Label>
            <SubLabel></SubLabel>
        </AdsInfo>
    </Snapshot>
    <AudioSection>
        <Url></Url>
          <OffsetTime>0</OffsetTime>
          <Duration>3000</Duration>
        <Text>Haha</Text>
        <PornInfo>
            <HitFlag></HitFlag>
            <Score></Score>
            <Keywords></Keywords>
        </PornInfo>
        <AdsInfo>
            <HitFlag></HitFlag>
            <Score></Score>
            <Keywords></Keywords>
        </AdsInfo>
    </AudioSection>
  </JobsDetail>
  <RequestId></RequestId>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Full information of the video moderation result.	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Details of the video moderation job.	Container
RequestId	Response	ID automatically generated by the server for a request when the request is sent, which can be used to facilitate fault locating.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which will be returned only if `State` is `Failed`. For more information, see Error Codes.	String
Message	Response.JobsDetail	Error message, which will be returned only if `State` is `Failed`.	String
DataId	Response.JobsDetail	This field will return the original content if the `DataId` parameter is configured during job submission, which can contain up to 512 bytes. You can use this field to uniquely identify the data to be moderated in your business.	String
JobId	Response.JobsDetail	ID of the video moderation job.	String
State	Response.JobsDetail	Status of the video moderation job. Valid values: `Submitted`, `Snapshoting`, `Success`, `Failed`, `Auditing`.	String
CreationTime	Response.JobsDetail	Creation time of the video moderation job.	String
Object	Response.JobsDetail	The name of the file to be moderated, which will be returned if `Object` is selected during job creation.	String
Url	Response.JobsDetail	The URL of the file to be moderated, which will be returned if `Url` is selected during job creation.	String
SnapshotCount	Response.JobsDetail	The total number of video screenshot.	String

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Label	Response.JobsDetail	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, `Ads`, and other types of unsafe or inappropriate content.	String
Result	Response.JobsDetail	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	Response.JobsDetail	The moderation result of the **pornographic information** moderation scene.	Container
AdsInfo	Response.JobsDetail	The moderation result of the **advertising information** moderation scene.	Container
Snapshot	Response.JobsDetail	This field is used to return the result of video image moderation.	Container Array
AudioSection	Response.JobsDetail	This field is used to return the result of video sound moderation. If no audio is detected, it will not be returned.	Container Array
UserInfo	Response.JobsDetail	Business field. This field will not exist if `UserInfo` is not set during job creation.	Container
ListInfo	Response.JobsDetail	Blocklist/Allowlist status of the account.	Container
ForbidState	Response.JobsDetail	If you set automatic freezing, this field indicates the status of the image. `0`: not frozen; `1`: frozen, `2`: file moved.	Integer

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.*Info	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as	Integer

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		a violation of the current scene); `2` (suspected as a violation of the current scene).	
Count	Response.JobsDetail.*Info	The number of screenshots that hit this moderation scene.	Integer

`Snapshot` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Url	Response.JobsDetail.Snapshot	URL of the current video screenshot, at which you can view the screenshot. It must be a standard URL. Note: Each URL is valid for 2 hours. If you need to view the data after 2 hours, initiate a new query request.	String
SnapshotTime	Response.JobsDetail.Snapshot	This field is used to return the time where the current screenshot is in the video in milliseconds, such as 5000 (i.e., 5000 milliseconds after the video starts). For live stream moderation, this field returns the timestamp of the current screenshot in milliseconds, such as 1649387157000.	Integer
Text	Response.JobsDetail.Snapshot	This field is used to return the OCR text recognition result of the current screenshot. It will be returned only if text content detection is enabled in the moderation policy.	String
Label	Response.JobsDetail.AudioSection	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, `Ads`, and other types of unsafe or inappropriate content.	String
SubLabel	Response.JobsDetail.AudioSection	The specific sub-label hit by the	String

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		moderation job. Note: This field may return null.	
Result	Response.JobsDetail.AudioSection	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	Response.JobsDetail.Snapshot	The moderation result of the **pornographic information** moderation scene.	Container
AdsInfo	Response.JobsDetail.Snapshot	The moderation result of the **advertising information** moderation scene.	Container

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.Snapshot.*Info	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as a violation of the current scene); `2` (suspected as a violation of the current scene).	Integer
Score	Response.JobsDetail.Snapshot.*Info	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer
Label	Response.JobsDetail.Snapshot.*Info	This field indicates the overall result label of the screenshot, which may be `SubLabel` , a person name, etc.	String
Category	Response.JobsDetail.Snapshot.*Info	This field is a subset of `Label` , indicating the specific moderation	String

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		category hit; for example, `Sexy` represents the sexy category in the `Porn` label.	
SubLabel	Response.JobsDetail.Snapshot.*Info	This field indicates the specific sub-label hit by the moderation job; for example, `SexBehavior` is a sub-label under the `Porn` label. Note: This field may return null, indicating that no specific sub-labels are hit.	String
OcrResults	Response.JobsDetail.Snapshot.*Info	This field represents the detailed OCR result, including the text coordinate information and text recognition result. It will be returned if there is non-compliant content.	Container Array
LibResults	Response.JobsDetail.Snapshot.*Info	This field returns results based on recognition against the risk library. Note: This field will not be returned if no samples in the risk library are hit.	Container Array

`LibResults` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
ImageId	Response.JobsDetail.Snapshot.*Info.LibResults	This field represents the hit image sample ID in the risk library.	String
Score	Response.JobsDetail.Snapshot.*Info.LibResults	This field returns the confidence under the current label. Value range: 0–100. The higher the value, the more likely the image hits a sample in the risk library. For example, `Porn 99` means that the content is very likely to hit a pornographic sample in the library.	Integer

`OcrResults` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type

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Text	Response.JobsDetail.Snapshot.*Info.OcrResults	The specific text content recognized by OCR in the image.	String
Keywords	Response.JobsDetail.Snapshot.*Info.OcrResults	Keywords hit by the current moderation scene.	String Array
Location	Response.JobsDetail.Snapshot.*Info.OcrResults	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the OCR detection frame in the image for quick location of the recognized text.	Container

`ObjectResults` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Name	Response.JobsDetail.Snapshot.*Info.ObjectResults	This field is used to return the name of the recognized object, such as person name.	String
Location	Response.JobsDetail.Snapshot.*Info.ObjectResults	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the recognition result in the image for you to quickly locate information.	Container

`Location` has the following sub-nodes:

Node Name (Keyword)	Description	Type
X	This parameter is used to return the pixel position of the **abscissa (X) of the top-left corner** of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float

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Y	This parameter is used to return the pixel position of the **ordinate of the top-left corner** (Y) of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Height	This parameter is used to return the **height of the detection frame** (the length starting from the top-left corner and extending down the Y axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Width	This parameter is used to return the **width of the detection frame** (the length starting from the top-left corner and extending to the right on the X axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Rotate	This parameter is used to return the **rotation angle of the detection frame**. Valid values: **0–360** (**degrees**), and the direction is **counterclockwise rotation**. This parameter can be combined with the `X` and `Y` coordinate parameters to uniquely determine the specific position of the detection frame.	Float

`AudioSection` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Url	Response.JobsDetail.AudioSection	URL of the current video sound segment, at which you can get the content of the segment. It must be a standard URL. Note: Each URL is valid for 2 hours. If you need to view the data after 2 hours, initiate a new query request.	String
Text	Response.JobsDetail.AudioSection	This field is used to return the ASR text recognition result of the current video sound segment.	String
OffsetTime	Response.JobsDetail.AudioSection	This field is used to return the time where the current sound segment is in the video in milliseconds, such as 5000 (i.e., 5000 milliseconds after the video starts). For live stream moderation, this field returns the timestamp of the current sound segment in milliseconds, such as 1649387157000.	Integer
Duration	Response.JobsDetail.AudioSection	The duration of the current video sound segment in milliseconds.	Integer
Label	Response.JobsDetail.Snapshot	This field is used to return the	String

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		maliciousness label with the highest priority in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, `Ads`, and other types of unsafe or inappropriate content.	
Result	Response.JobsDetail.Snapshot	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	Response.JobsDetail.AudioSection	The moderation result of the **pornographic information** moderation scene.	Container
AdsInfo	Response.JobsDetail.AudioSection	The moderation result of the **advertising information** moderation scene.	Container

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.AudioSection.*Info	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as a violation of the current scene); `2` (suspected as a violation of the current scene).	String
Score	Response.JobsDetail.AudioSection.*Info	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that	String

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		the content is very likely to be pornographic.	
Category	Response.JobsDetail.AudioSection.*Info	This field is a subset of `Label`, indicating the specific moderation category hit; for example, `Sexy` represents the sexy category in the `Porn` label.	String
SubLabel	Response.JobsDetail.AudioSection	The specific sub-label hit by the moderation job. Note: This field may return null.	String
Keywords	Response.JobsDetail.AudioSection.*Info	Keywords hit by the current moderation scene. Nothing will be returned if there is none.	String Array
LibResults	Response.JobsDetail.AudioSection.*Info	This field returns results based on recognition against the risk library. Note: This field will not be returned if no samples in the risk library are hit.	Container Array

`LibResults` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
LibType	Response.JobsDetail.AudioSection.*Info.LibResults	Type of the hit risk library. Valid values: `1` (preset risk library); `2` (custom risk library).	Integer
LibName	Response.JobsDetail.AudioSection.*Info.LibResults	Name of the hit risk library.	String
Keywords	Response.JobsDetail.AudioSection.*Info.LibResults	Keywords hit in the library. There may be multiple return values representing multiple hit keywords.	String Array

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required
TokenId	Account information, which can contain up to 128 bytes.	String	No

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Nickname	Nickname information, which can contain up to 128 bytes.	String	No
DeviceId	Device information, which can contain up to 128 bytes.	String	No
AppId	Unique app ID, which can contain up to 128 bytes.	String	No
Room	Room ID information, which can contain up to 128 bytes.	String	No
IP	IP address information, which can contain up to 128 bytes.	String	No
Type	Business type, which can contain up to 128 bytes.	String	No
ReceiveTokenId	User account to receive messages, which can contain up to 128 bytes.	String	No
Gender	Gender information, which can contain up to 128 bytes.	String	No
Level	Level information, which can contain up to 128 bytes.	String	No
Role	Role information, which can contain up to 128 bytes.	String	No

`ListInfo` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
ListResults	Response.JobsDetail.ListInfo	Results in all hit lists.	Container Array

`ListResults` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
ListType	Response.JobsDetail.ListInfo.ListResults	Type of the hit list. Valid values: `0` (allowlist), `1` (blocklist).	Integer
ListName	Response.JobsDetail.ListInfo.ListResults	Name of the hit list.	String
Entity	Response.JobsDetail.ListInfo.ListResults	Entity hit in the list.	String

Error codes

No special error message will be returned for this request. For the common error messages, see Error Codes.

Use Cases

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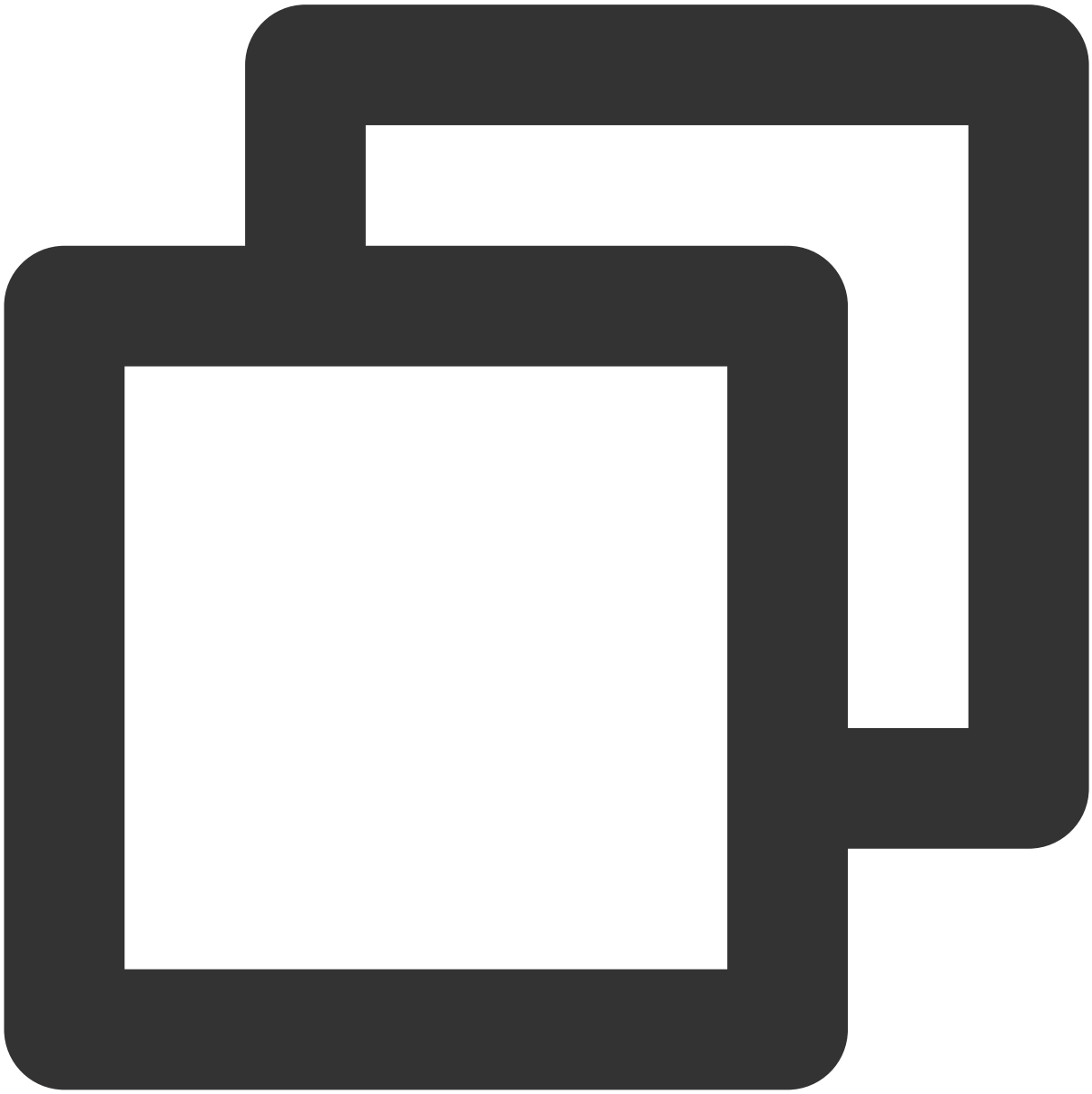
Request



```
GET /video/auditing/vab1ca9fc8a3ed11ea834c525400863904 HTTP/1.1
Accept: */*
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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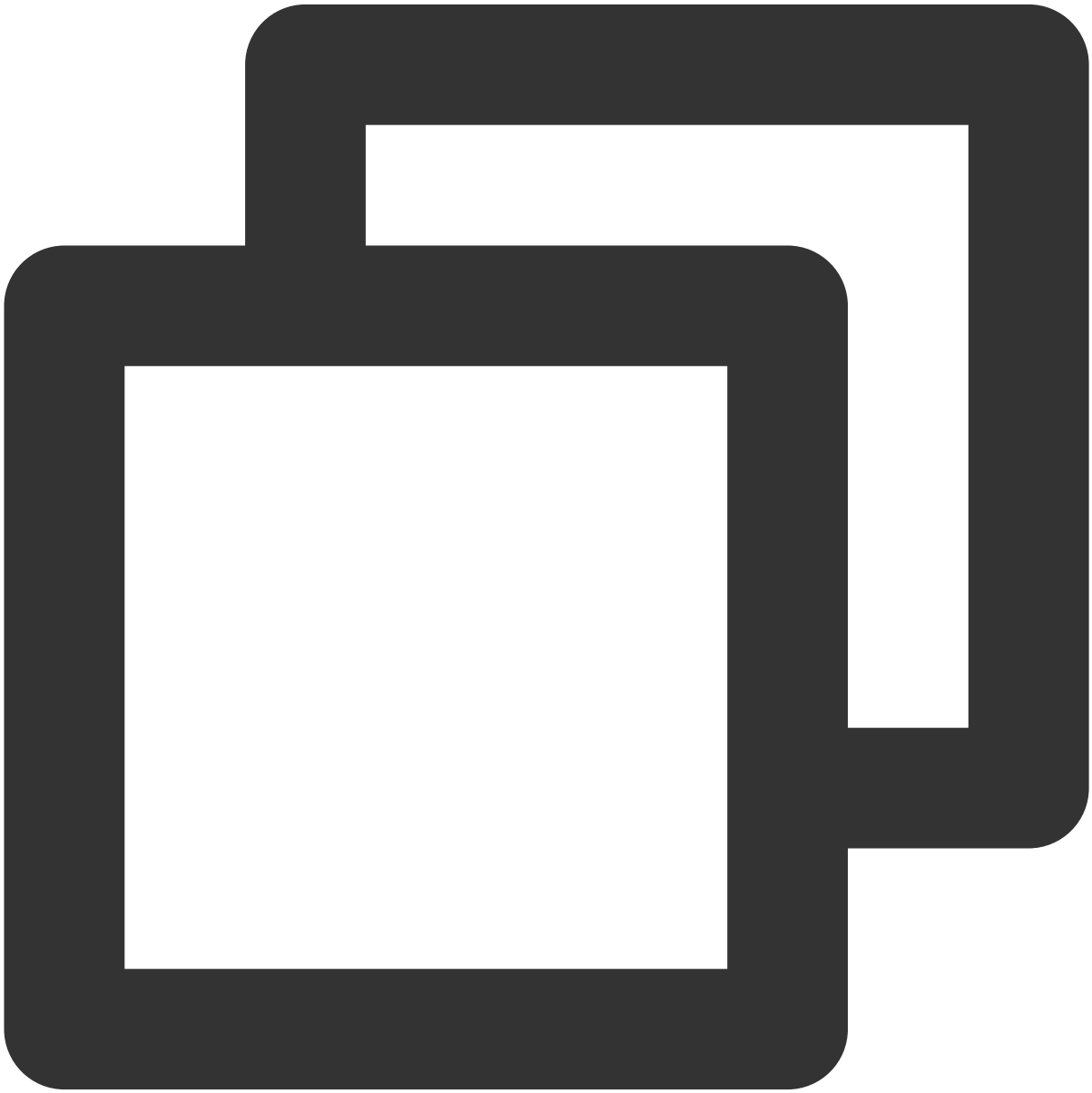

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
  <JobsDetail>
    <JobId>vab1ca9fc8a3ed11ea834c525400863904</JobId>
```

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```
    <State>Success</State>
    <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    <Object>a.mp4</Object>
    <SnapshotCount>1</SnapshotCount>
    <Label>Normal</Label>
    <Result>0</Result>
    <PornInfo>
        <HitFlag>0</HitFlag>
        <Count>0</Count>
    </PornInfo>
    <AdsInfo>
        <HitFlag>0</HitFlag>
        <Count>0</Count>
    </AdsInfo>
    <Snapshot>
        <Url>http://examplebucket-1250000000.cos.ap-chongqing.myqcloud.com/0.jpg</U
        <SnapshotTime>0</SnapshotTime>
        <Text>Haha</Text>
        <Label>Normal</Label>
        <Result>0</Result>
        <PornInfo>
            <HitFlag>0</HitFlag>
            <Score>0</Score>
            <Label></Label>
            <SubLabel></SubLabel>
        </PornInfo>
        <AdsInfo>
            <HitFlag>0</HitFlag>
            <Score>0</Score>
            <Label></Label>
            <SubLabel></SubLabel>
        </AdsInfo>
    </Snapshot>
    <AudioSection>
        <AdsInfo>
            <HitFlag>0</HitFlag>
            <Score>0</Score>
        </AdsInfo>
        <Duration>30000</Duration>
        <OffsetTime>0</OffsetTime>
        <Label>Normal</Label>
        <Result>0</Result>
        <PornInfo>
            <HitFlag>0</HitFlag>
            <Score>0</Score>
        </PornInfo>
        <Text>wc xx</Text>
```

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```
        <Url>https://auditing-1250000000.cos.ap-guangzhou.myqcloud.com/q9MhdztF/0.m
    </AudioSection>
  </JobsDetail>
  <RequestId>xxxxxxxxxxxxxx</RequestId>
</Response>
```

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Video Moderation Callback Content

Last updated：2024-06-12 16:01:53

Feature Overview

If you have configured a moderation callback address, after video moderation is completed, the backend will call back the moderation result in JSON format to the callback address. You can perform subsequent file processing operations based on the callback content.
The callback content is divided into simple callback (Simple) and detailed callback (Detail).

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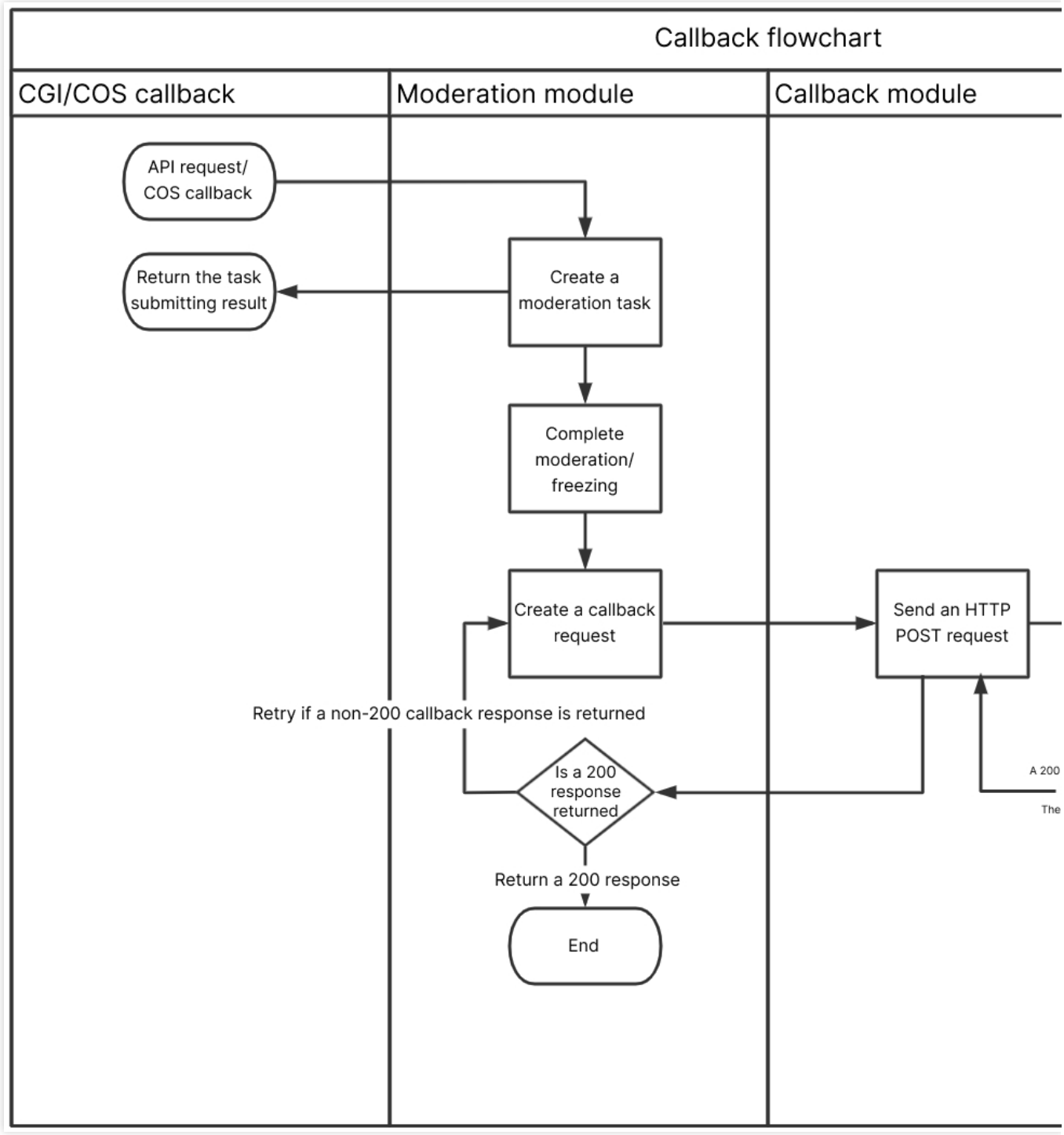

Callback Content Description

Simple callback (Simple)

The callback notification adopts the `POST` method of HTTP, with the `X-Ci-Content-Version: Simple` header.

The response body returns **application/json** data. The following contains all the nodes:

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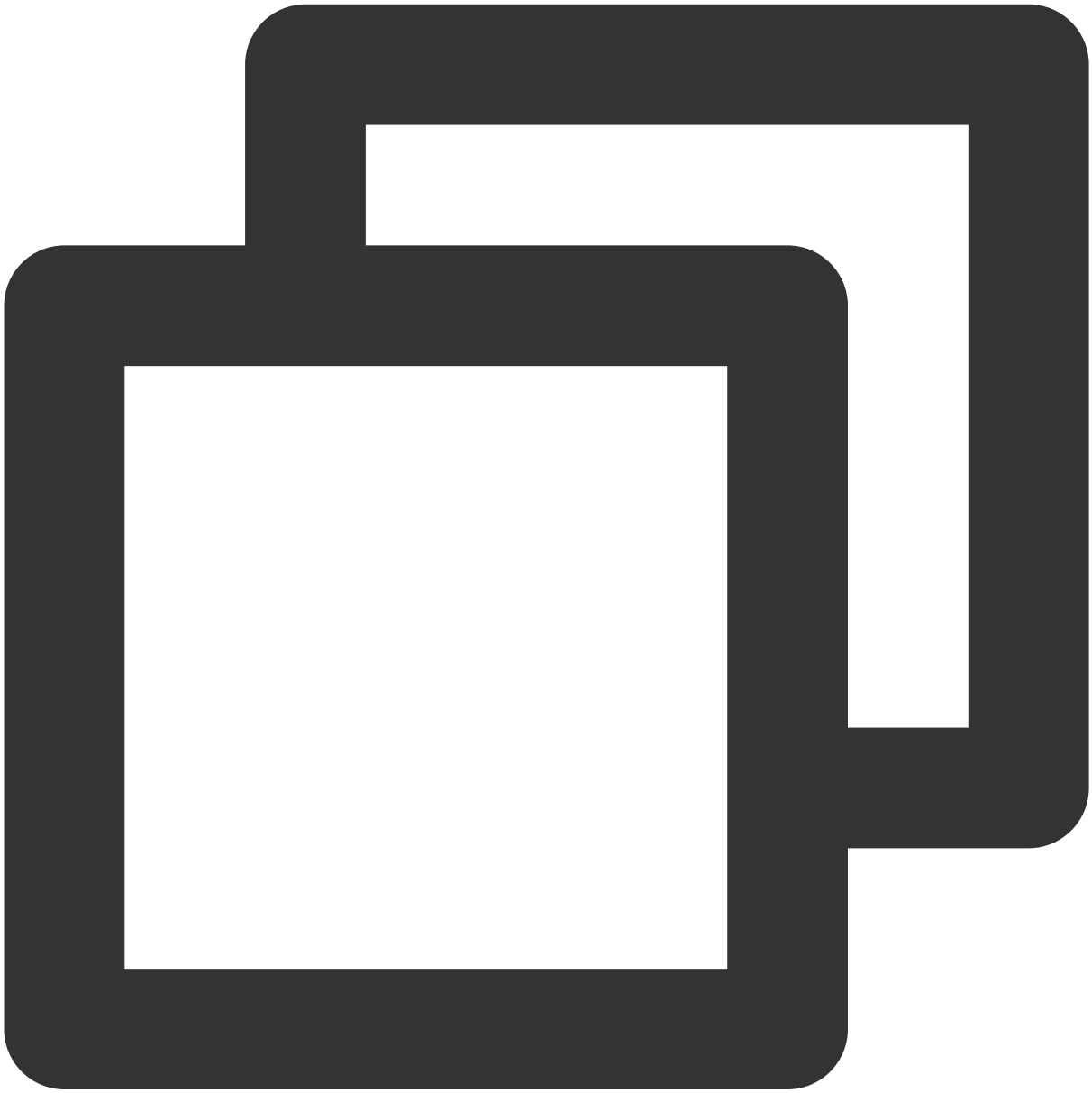


```
{
   "code": 0,
   "data": {
       "event":"ReviewVideo",
       "forbidden_status": 0,
       "porn_info": {
           "hit_flag": 0,
           "label": "",
           "count": 0
       },
       "result": 0,
```


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```
        "trace_id": "test_trace_id",
        "url": "test_url",
        "cos_headers": {
            "x-cos-meta-xx": "xx"
        }
    },
    "message": "Test request when setting callback url"
}
```

The nodes are as described below:

Parameter	Description	Type	Required
code	Error code. 0: moderation succeeded; other values: moderation failed. For more information, see Error Codes.	Integer	Yes
message	Error message.	String	Yes
data	Details of the video moderation result.	Object	Yes

`data` is as described below:

Parameter	Description	Type	Required
trace_id	Request ID. If the job is an async job created through an API, this value is the `JobId` returned by the API.	String	Yes
url	Full URL of the moderated video.	String	Yes
event	Triggered event, which is fixed at `ReviewVideo` here.	String	Yes
result	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).	Integer	Yes
forbidden_status	If you set automatic freezing, this field indicates the frozen status of the video. `0` : not frozen, `1` : frozen, `2` : file moved.	Integer	Yes
cos_headers	The custom header content set when the resource is uploaded. If it is not set, it will not be returned.	Object	No
porn_info	The moderation result of the **pornographic information** moderation scene.	Object	No
ads_info	The moderation result of the **advertising information** moderation scene.	Object	No

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data_id	The original content will be returned if the `DataId` parameter is set when the job is submitted, which can contain up to 512 bytes.	String	No

`xx_info` is as described below:

Parameter	Description	Type	Required
hit_flag	The moderation result returned for the moderation scene. Return values: **0** (normal), **1** (confirmed as a violation of the current scene), and **2** (suspected as a violation of the current scene).	Integer	Yes
label	Hit label name, which is empty currently.	String	Yes
count	The number of sensitive screenshots that hit the moderation scene.	Integer	Yes

Detail callback (Detail)

The callback notification adopts the `POST` method of HTTP, with the `X-Ci-Content-Version: Detail` header.

The response body returns **application/json** data. The following contains all the nodes:

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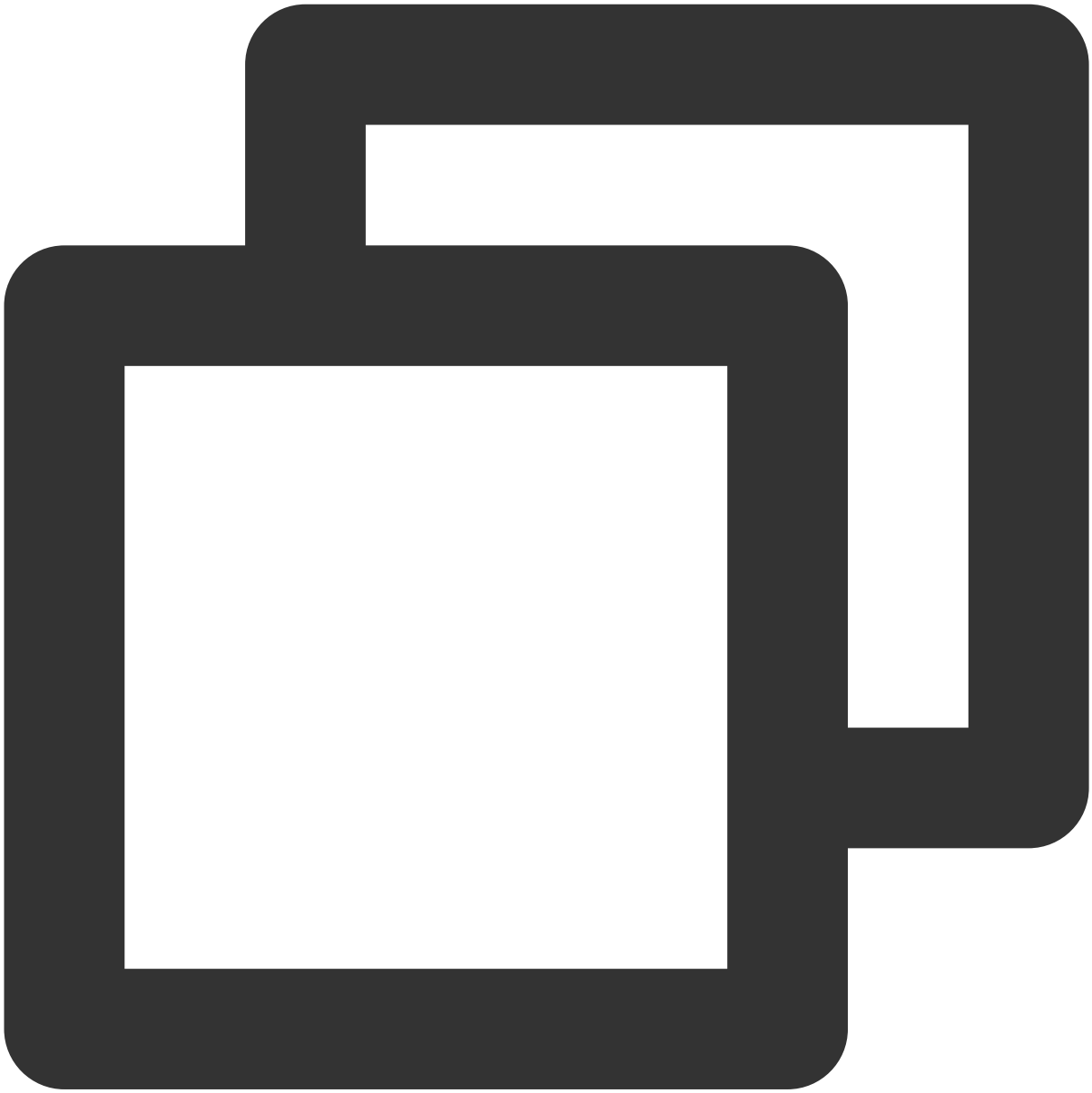

```
{
  "EventName": "ReviewVideo",
  "JobsDetail": {
    "JobId": "xxxxxx",
    "State": "Success",
    "CreationTime": "",
    "Object": "",
    "Label": "Normal",
    "Result": 0,
    "SnapshotCount": 1,
    "PornInfo": {
```

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```
      "HitFlag": 0,
      "Count": 0
    },
    "AdsInfo": {
      "HitFlag": 0,
      "Count": 0
    },
    "Snapshot": [
      {
        "Url": "",
        "Text": "",
        "SnapshotTime": 0,
        "Label": "Normal",
        "Result": 0,
        "PornInfo": {
          "HitFlag": 0,
          "Score": 0,
          "Label": "",
          "SubLabel": ""
        },
        "AdsInfo": {
          "HitFlag": 0,
          "Score": 0,
          "Label": "",
          "SubLabel": ""
        }
      }
    ],
    "AudioSection": [
      {
        "Url": "",
        "Text": "",
        "OffsetTime": 0,
        "Duration": 30000,
        "Label": "Normal",
        "Result": 0,
        "PornInfo": {
          "HitFlag": 0,
          "Score": 0
        },
        "AdsInfo": {
          "HitFlag": 0,
          "Score": 0
        }
      }
    ],
    "BucketId": "examplebucket-1250000000",
```


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```
    "Region": "ap-chongqing",
    "ForbidState": 0,
    "CosHeaders": {
        "x-cos-meta-id": "xxx"
    }
  }
}
```

The nodes are as described below:

Node Name (Keyword)	Description	Type
JobsDetail	Job result details.	Object
EventName	Job type: ReviewVideo.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Code	Error code, which will be returned only if `State` is `Failed`. For more information, see Error Codes.	String
Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Moderation job ID.	String
DataId	The original content will be returned if the `DataId` parameter is set when the job is submitted, which can contain up to 512 bytes.	String
State	Status of the video moderation job. Valid values: `Submitted`, `Snapshoting`, `Success`, `Failed`, `Auditing`.	String
CreationTime	Creation time of the video moderation job.	String
Object	The name of the video file to be moderated, which will be returned if `Object` is selected during job creation.	String
Url	The URL of the video file to be moderated, which will be returned if `Url` is selected during job creation.	String
SnapshotCount	The total number of video screenshots. In the callback where the live stream status is `Auditing`, this field indicates the number of screenshots included in the callback.	Integer
Label	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result	String

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	suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, and `Ads`.	
Result	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	The moderation result of the **pornographic information** moderation scene.	Object
AdsInfo	The moderation result of the **advertising information** moderation scene.	Object
Snapshot	This field is used to return the result of video image moderation.	Array
AudioSection	This field is used to return the result of video sound moderation. If no audio is detected, it will not be returned.	Array
BucketId	Name of the bucket of the created moderation job.	String
Region	Bucket region.	String
ForbidState	If you set automatic freezing, this field indicates the status of the video. `0`: not frozen; `1`: frozen, `2`: file moved.	Integer
CosHeaders	The custom header content set when the resource is uploaded to COS. If it is not set, it will not be returned. It is in a map structure, where `key` is the custom header name and `value` is the content.	Object
UserInfo	Business field. This field will not exist if `UserInfo` is not set during job creation.	Object
Type	Moderation type. `live_video` will be returned for live stream moderation.	String
ListInfo	Blocklist/Allowlist status of the account.	Object

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Description	Type
HitFlag	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as a violation of the current scene); `2` (suspected as a violation of the current scene).	Integer

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Count	The number of screenshots that hit this moderation scene.	Integer

`Snapshot` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Url	URL of the current video screenshot, at which you can view the screenshot. It must be a standard URL. Note: Each URL is valid for 2 hours. If you need to view the data after 2 hours, initiate a new query request.	String
SnapshotTime	This field is used to return the time where the current screenshot is in the video in milliseconds, such as 5000 (i.e., 5000 milliseconds after the video starts). For live stream moderation, this field returns the timestamp of the current screenshot in milliseconds, such as 1649387157000.	Integer
Text	This field is used to return the OCR text recognition result of the current screenshot. It will be returned only if text content detection is enabled in the moderation policy.	String
Label	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal` , `Porn` , and `Ads` .	String
Result	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	The moderation result of the **pornographic information** moderation scene.	Object
AdsInfo	The moderation result of the **advertising information** moderation scene.	Object

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Description	Type
HitFlag	Whether the moderation type is hit. Valid values: `0` (miss), `1` (hit), `2` (suspected).	Integer
Score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned	Integer

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	moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	
Label	This field indicates the overall result label of the screenshot, which may be `SubLabel`, a person name, etc.	String
Category	This field indicates the specific moderation category hit; for example, `Sexy` represents the sexy category in the `Porn` label. It may be null, indicating that no category is hit or there is no relevant category.	String
SubLabel	This field indicates the specific sub-label hit by the moderation job; for example, `SexBehavior` is a sub-label under the `Porn` label. Note: This field may return null, indicating that no specific sub-labels are hit.	String
OcrResults	This field represents the detailed OCR result, including the text coordinate information and text recognition result. It will be returned if there is non-compliant content.	Array
LibResults	This field returns results based on recognition against the risk library. Note: This field will not be returned if no samples in the risk library are hit.	Object Array

`LibResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
ImageId	This field represents the hit image sample ID in the risk library.	String
Score	This field returns the confidence under the current label. Value range: 0–100. The higher the value, the more likely the image hits a sample in the risk library. For example, `Porn 99` means that the content is very likely to hit a pornographic sample in the library.	Integer

`OcrResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Text	The specific text content recognized by OCR in the image.	String
Keywords	Keywords hit by the current moderation scene.	Array
Location	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the OCR detection frame in the image for quick location of the recognized text.	Object

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`ObjectResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Name	This field is used to return the name of the recognized object, such as person name.	String
Location	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the recognition result in the image for you to quickly locate information.	Object

`Location` has the following sub-nodes:

Node Name (Keyword)	Description	Type
X	This parameter is used to return the pixel position of the **abscissa (X) of the top-left corner** of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Y	This parameter is used to return the pixel position of the **ordinate of the top-left corner** (Y) of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Height	This parameter is used to return the **height of the detection frame** (the length starting from the top-left corner and extending down the Y axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Width	This parameter is used to return the **width of the detection frame** (the length starting from the top-left corner and extending to the right on the X axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Rotate	This parameter is used to return the **rotation angle of the detection frame**. Valid values: **0–360** (**degrees**), and the direction is **counterclockwise rotation**. This parameter can be combined with the `X` and `Y` coordinate parameters to uniquely determine the specific position of the detection frame.	Float

`AudioSection` has the following sub-nodes:

Node Name (Keyword)	Description	Type

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Url	URL of the current video sound segment, at which you can get the content of the segment. It must be a standard URL. 、 Note: Each URL is valid for 2 hours. If you need to view the data after 2 hours, initiate a new query request.	String
Text	This field is used to return the ASR text recognition result of the current video sound segment.	String
OffsetTime	This field is used to return the time where the current sound segment is in the video in milliseconds, such as 5000 (i.e., 5000 milliseconds after the video starts). For live stream moderation, this field returns the timestamp of the current sound segment in milliseconds, such as 1649387157000.	Integer
Duration	The duration of the current video sound segment in milliseconds.	Integer
Label	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal` , `Porn` , and `Ads` .	String
Result	Recognition result for reference. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive).	Integer
PornInfo	The moderation result of the **pornographic information** moderation scene.	Object
AdsInfo	The moderation result of the **advertising information** moderation scene.	Object

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Description	Type
HitFlag	Whether the moderation type is hit. Valid values: `0` (miss), `1` (hit), `2` (suspected).	Integer
Score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer
Category	This field indicates the specific hit moderation type. Note: This field may return null.	String
Keywords	Keywords hit by the current moderation scene. Nothing will be returned if there is none.	Array
LibResults	This field returns results based on recognition against the risk library.	Container

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	Note: This field will not be returned if no samples in the risk library are hit.	Array

`LibResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
LibType	Type of the hit risk library. Valid values: `1` (preset blocklist/allowlist library), `2` (custom risk library).	Integer
LibName	Name of the hit risk library.	String
Keywords	Keywords hit in the library. There may be multiple returned values representing multiple hit keywords.	String Array

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required
TokenId	Account information, which can contain up to 128 bytes.	String	No
Nickname	Nickname information, which can contain up to 128 bytes.	String	No
DeviceId	Device information, which can contain up to 128 bytes.	String	No
AppId	Unique app ID, which can contain up to 128 bytes.	String	No
Room	Room ID information, which can contain up to 128 bytes.	String	No
IP	IP address information, which can contain up to 128 bytes.	String	No
Type	Business type, which can contain up to 128 bytes.	String	No
ReceiveTokenId	User account to receive messages, which can contain up to 128 bytes.	String	No
Gender	Gender information, which can contain up to 128 bytes.	String	No
Level	Level information, which can contain up to 128 bytes.	String	No
Role	Role information, which can contain up to 128 bytes.	String	No

`ListInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type

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ListResults	Results in all hit lists.	Container Array

`ListResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
ListType	Type of the hit list. Valid values: `0` (allowlist), `1` (blocklist).	Integer
ListName	Name of the hit list.	String
Entity	Entity hit in the list.	String

Examples

Sample 1: Simple callback (Simple)

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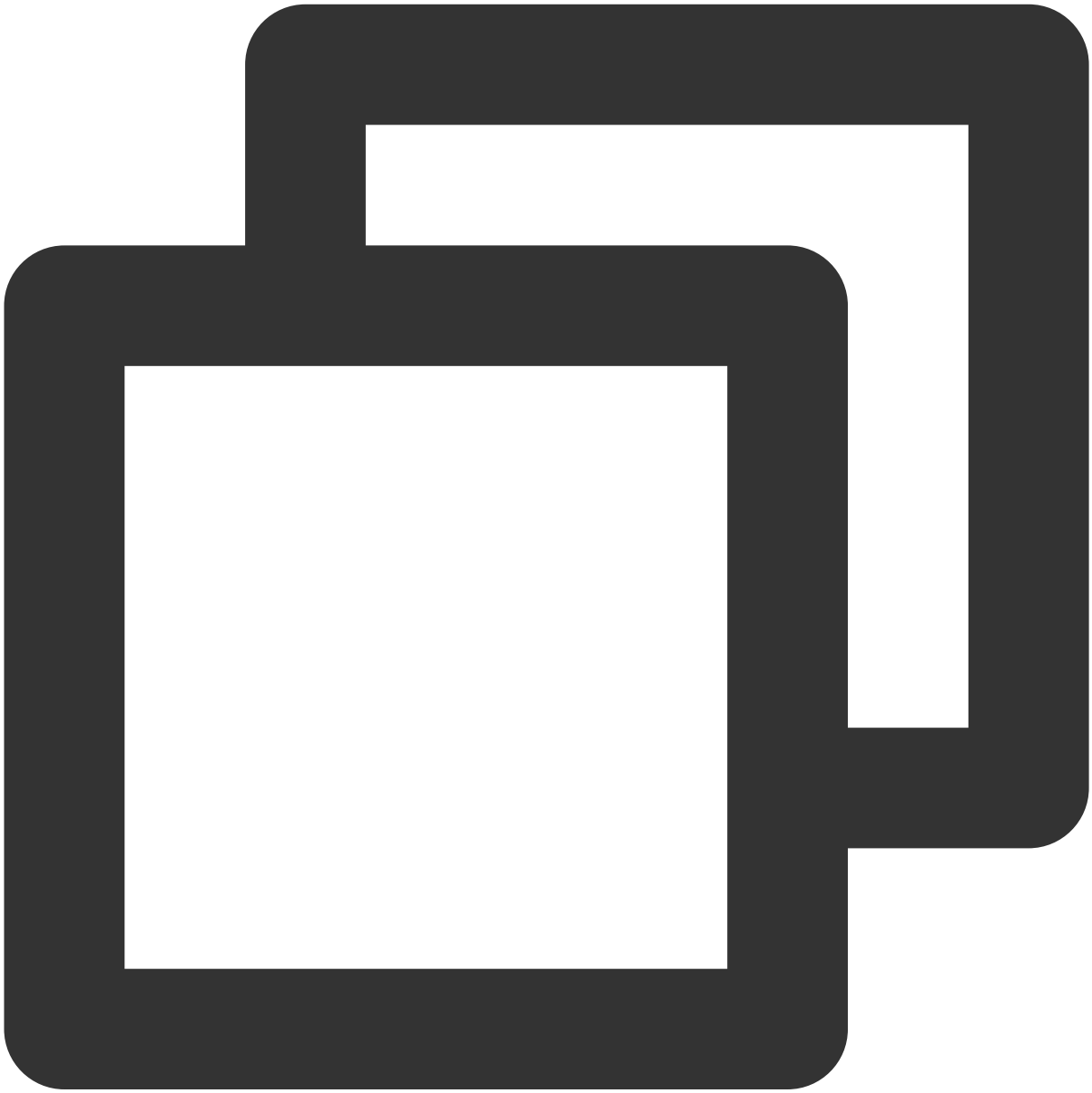


```
{
   "code": 0,
   "data": {
       "event":"ReviewVideo",
       "forbidden_status": 0,
       "porn_info": {
           "hit_flag": 0,
           "label": "",
           "count": 0
       },
       "result": 0,
```


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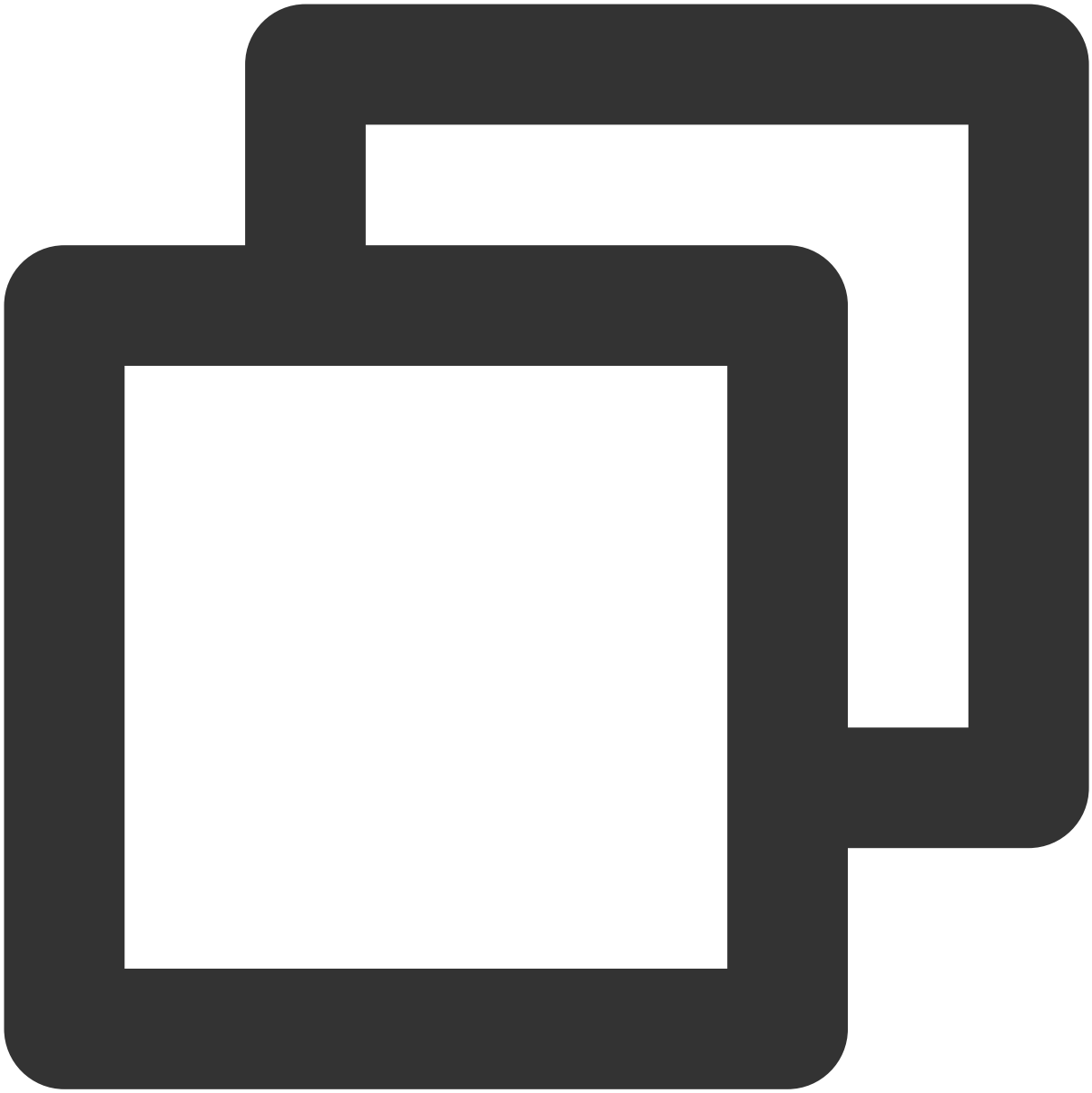
```
        "trace_id": "vxzt90jl2dfscxxxxxxxxxxxxxxxx",
        "url": "https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/video.
        "cos_headers": {
            "x-cos-meta-id": "666666"
        }
    },
    "message": "success"
}
```

Sample 2: Detailed callback (Detail)



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```
{
  "EventName": "ReviewVideo",
  "JobsDetail": {
    "JobId": "xxxxxx",
    "State": "Success",
    "CreationTime": "2021-08-10T21:01:10+08:00",
    "Object": "1.mp4",
    "Label": "Normal",
    "Result": 0,
    "SnapshotCount": 1,
    "PornInfo": {
      "HitFlag": 0,
      "Count": 0
    },
    "AdsInfo": {
      "HitFlag": 0,
      "Count": 0
    },
    "Snapshot": [
      {
        "Url": "https://video-1250000000.cos.ap-chongqing.myqcloud.com/test/0.jpg",
        "Text": "",
        "SnapshotTime": 41,
        "Label": "Normal",
        "Result": 0,
        "PornInfo": {
          "HitFlag": 0,
          "Score": 0,
          "Label": "",
          "SubLabel": ""
        },
        "AdsInfo": {
          "HitFlag": 0,
          "Score": 0,
          "Label": "",
          "SubLabel": ""
        }
      }
    ],
    "AudioSection": [
      {
        "Url": "https://audio-1250000000.cos.ap-guangzhou.myqcloud.com/0.mp3",
        "Text": "",
        "OffsetTime": 0,
        "Duration": 30000,
        "Label": "Normal",
```


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```
          "Result": 0,
          "PornInfo": {
            "HitFlag": 0,
            "Score": 0
          },
          "AdsInfo": {
            "HitFlag": 0,
            "Score": 0
          }
        }
      ],
      "BucketId": "examplebucket-1250000000",
      "Region": "ap-chongqing",
      "ForbidState": 0,
      "CosHeaders": {
          "x-cos-meta-id": "xxxx"
      }
    }
}
```


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Audio Moderation
Submitting Audio Moderation Job

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Feature Overview

This API is used to submit an audio moderation job. The audio moderation feature is async. You can submit a job to moderate your audio files, and then use the API for Querying Audio Moderation Job Result or Audio Moderation Callback Content to query the moderation results.
The API supports the following operations:
Note:
You can moderate audio files stored in COS.
You can moderate audios at URLs of a third-party cloud storage vendor.
Automatically detect audio files and recognize non-compliant content in ASR and sexy moaning dimensions based on the deep learning technology.
Get the detection results by setting the callback address `Callback` or calling the API for Querying Audio Moderation Job Result.
Recognize various non-compliant scenes, including pornographic and advertising information.
Customize moderation policies based on different business scenarios as instructed in Setting Moderation Policy.

Billing Details

Each moderation scene is billed separately. For example, if you choose to moderate two scenes involving pornography and advertising, then **one audio file** will be moderated and billed **twice**.
Calling the API will incur audio moderation fees and COS read request fees.
If the audio files are stored in COS STANDARD_IA storage class, calling the moderation API will incur STANDARD_IA data retrieval fees as described in Data Retrieval Fees.
Audio moderation is not supported for objects stored in the ARCHIVE or DEEP ARCHIVE storage classes. To moderate these objects, you first need to restore them as instructed in POST Object restore.

Restrictions

Supported audio file size: **< 600 MB**
Supported audio file duration: **< 3 hours**

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Supported audio bitrate: 128–256 Kbps
Supported audio file format: MP3, WAV, AAC, FLAC, AMR, 3GP, M4A, WMA, OGG, or APE.
Supported audio languages: Mandarin, English, Cantonese.
When a video file is used as the input, the audio track can be extracted for audio content moderation.

SDK Recommendation

COS SDK provides complete capabilities of demo, automatic integration, and signature calculation. You can easily and quickly call APIs through the SDK. For more information, see SDK Overview.

Request

Sample request

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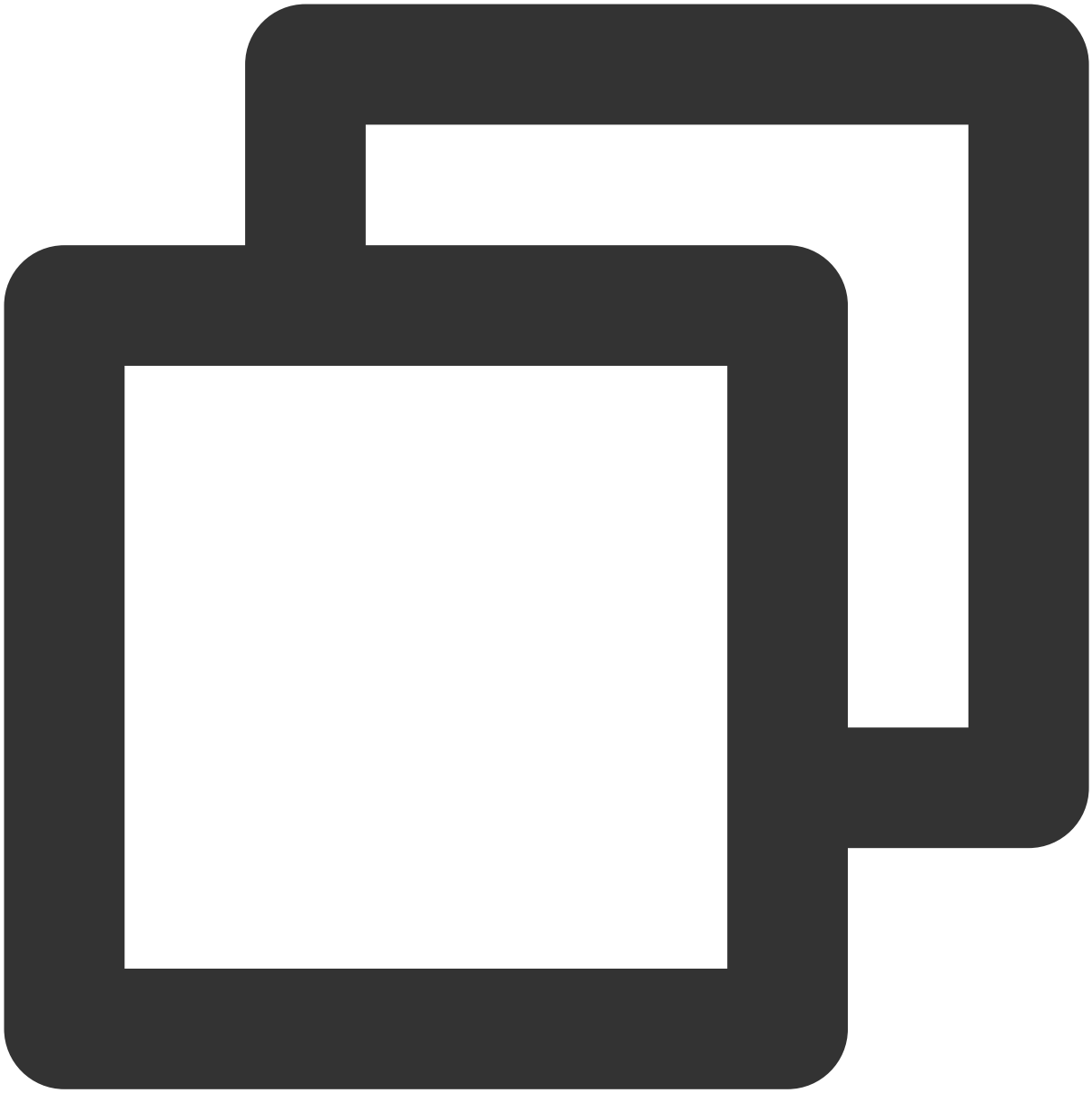

```
POST /audio/auditing HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml
<body>
```

Note:

Authorization: Auth String (see Request Signature for more information)

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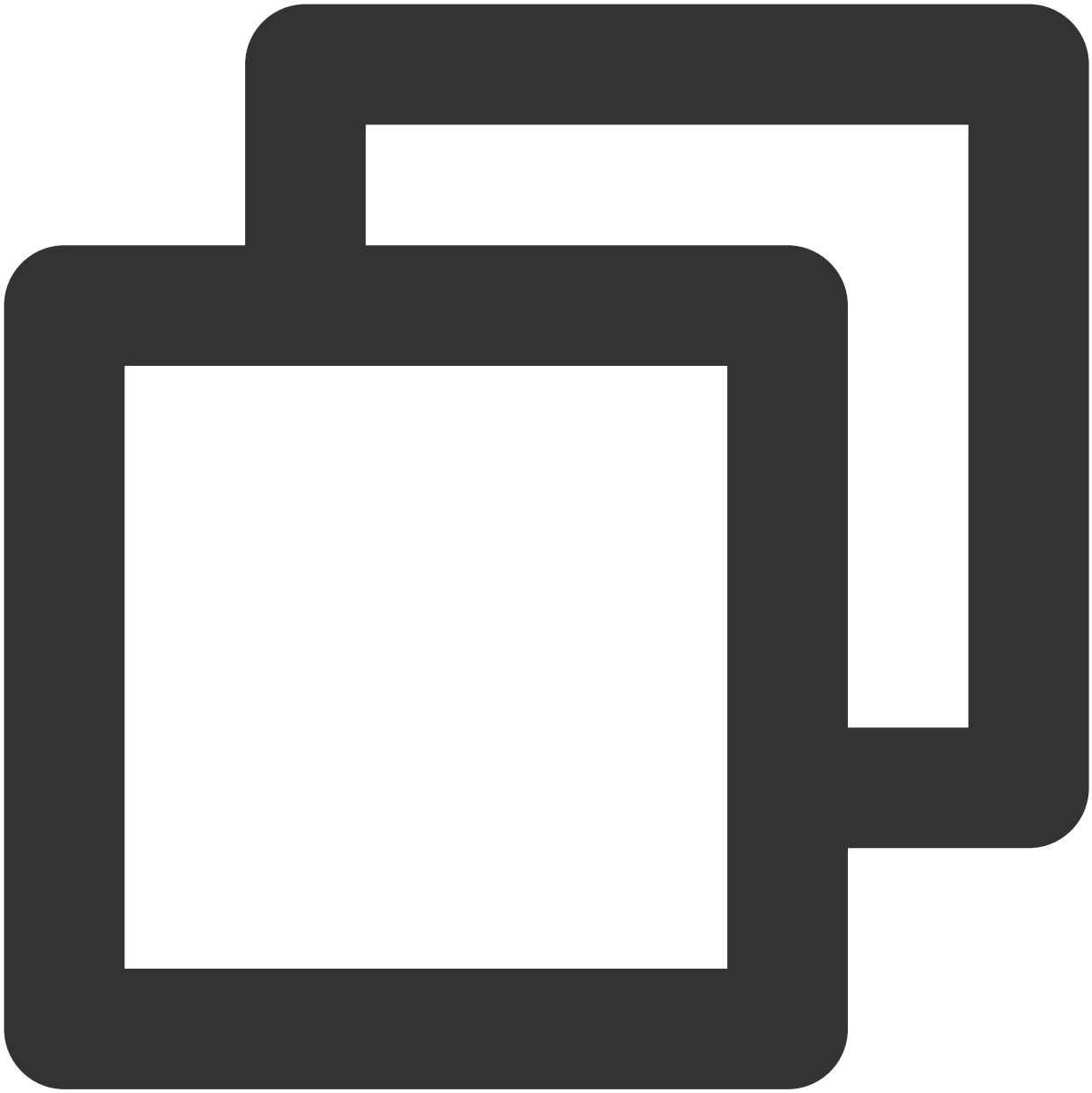
When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

Request headers

This API only uses Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
```

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```
    <Input>
        <Object></Object>
        <Url></Url>
        <DataId></DataId>
    </Input>
    <Conf>
        <Callback></Callback>
        <BizType></BizType>
    </Conf>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Audio moderation configuration.	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Input	Request	Content to be moderated.	Container	Yes
Conf	Request	Moderation rule configuration.	Container	Yes

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Name of the audio file stored in the COS bucket; for example, if the file is `audio.mp3` in the `test` directory, then the filename is `test/audio.mp3`. Either `Object` or `Url` can be selected at a time.	String	No
Url	Request.Input	Full URL of the audio file, such as `http://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/audio.mp3`. Either `Object` or `Url` can be selected at a time.	String	No
DataId	Request.Input	This field will return the original content in the moderation result, which can contain up to 512 bytes. You can use this field to uniquely identify the data to be moderated in your business.	String	No

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UserInfo	Request.Input	Business field.	Container	No

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TokenId	Request.Input.UserInfo	Business `TokenId`, which can contain up to 128 bytes.	String	No
Nickname	Request.Input.UserInfo	Business `Nickname`, which can contain up to 128 bytes.	String	No
DeviceId	Request.Input.UserInfo	Business `DeviceId`, which can contain up to 128 bytes.	String	No
AppId	Request.Input.UserInfo	Business `AppId`, which can contain up to 128 bytes.	String	No
Room	Request.Input.UserInfo	Business `Room`, which can contain up to 128 bytes.	String	No
IP	Request.Input.UserInfo	Business `IP`, which can contain up to 128 bytes.	String	No
Type	Request.Input.UserInfo	Business `Type`, which can contain up to 128 bytes.	String	No
ReceiveTokenId	Request.Input.UserInfo	Business `ReceiveTokenId`, which can contain up to 128 bytes.	String	No
Gender	Request.Input.UserInfo	Business `Gender`, which can contain up to 128 bytes.	String	No
Level	Request.Input.UserInfo	Business `Level`, which can contain up to 128 bytes.	String	No
Role	Request.Input.UserInfo	Business `Role`, which can contain up to 128 bytes.	String	No

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
BizType	Request.Conf	Unique identifier of the moderation policy.	String	No

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		You can configure the scenes you want to moderate on the moderation policy page in the console, such as pornographic and advertising information. For configuration guidelines, see Setting Moderation Policy. You can get `BizType` in the console. If `BizType` is specified, the moderation request will perform moderation based on the scenes configured in the moderation policy. If `BizType` is not specified, the default moderation policy will be used automatically.		
Callback	Request.Conf	The moderation result can be sent to your callback address in the form of a callback. Addresses starting with `http://` or `https://` are supported, such as `http://www.callback.com` .	String	No
CallbackVersion	Request.Conf	Structure of the callback content. Valid values: Simple (the callback content contains basic information), Detail (the callback content contains detailed information). Default value: Simple.	string	No
CallbackType	Request.Conf	Callback segment type. Valid values: `1` (calls back all audio segments); `2` (calls back non-compliant audio segments). Default value: `1` .	Integer	No
Freeze	Request.Conf	This field can be used to set automatic freezing for audio files based on the moderation score. It takes effect only if the audio moderated in `input` is an `object` .	Container	No

`Freeze` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
PornScore	Request.Conf.Freeze	The threshold at or above which automatic freezing will be performed for the porn moderation result. Value range: [0,100]. If this	Integer	No

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		field is left empty (default value), automatic freezing will not be performed.		
AdsScore	Request.Conf.Freeze	The threshold at or above which automatic freezing will be performed for the ad moderation result. Value range: [0,100]. If this field is left empty (default value), automatic freezing will not be performed.	Integer	No

For freezing parameters in other moderation scenes, contact the customer service.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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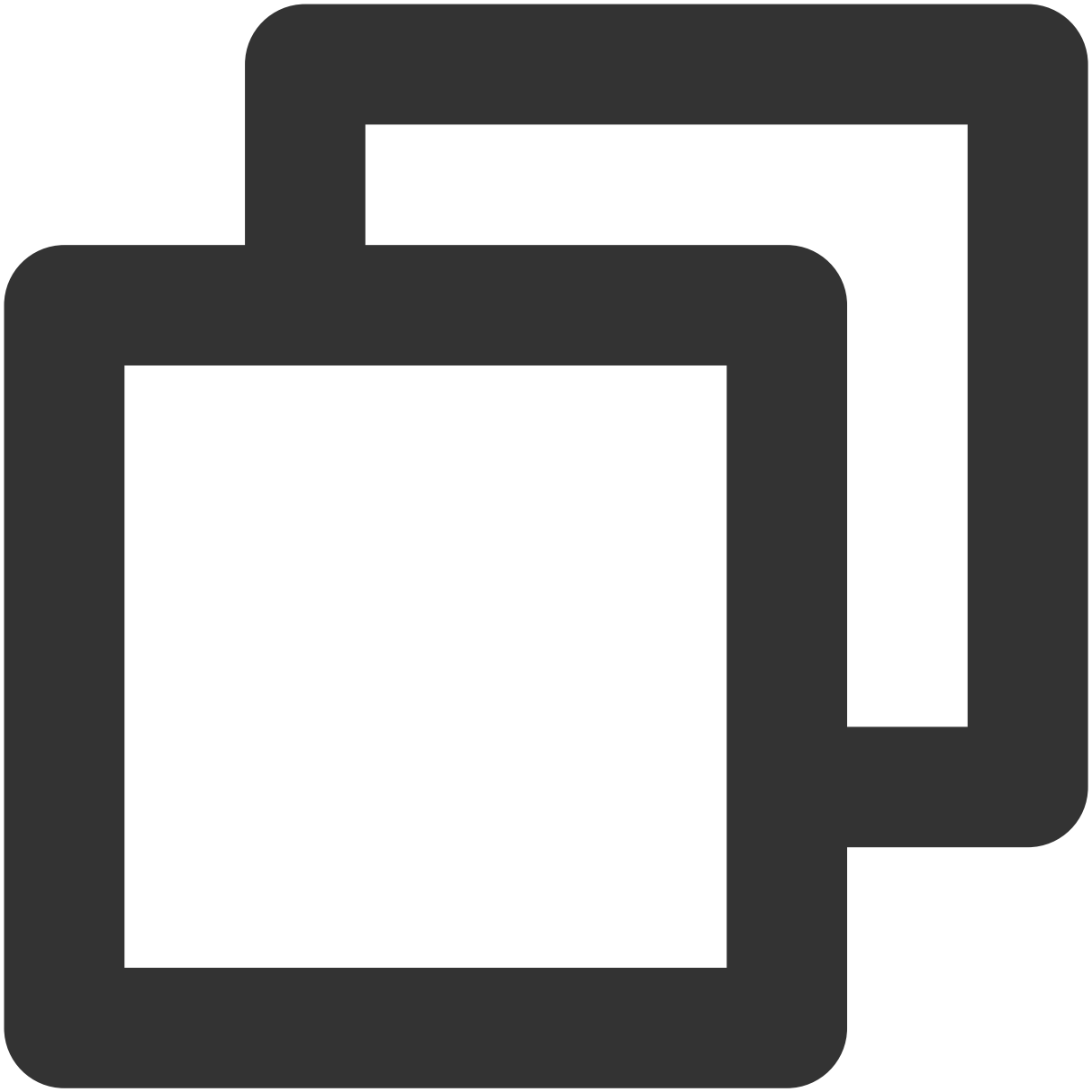

```
<Response>
    <JobsDetail>
        <DataId></DataId>
        <JobId></JobId>
        <State></State>
        <CreationTime></CreationTime>
    </JobsDetail>
    <RequestId></RequestId>
</Response>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	The specific response content returned by audio moderation.	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Details of the audio moderation job.	Container
RequestId	Response	ID automatically generated by the server for a request when the request is sent, which can be used to facilitate fault locating.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
DataId	Response.JobsDetail	Unique business ID added in the request.	String
JobId	Response.JobsDetail	ID of the audio moderation job.	String
State	Response.JobsDetail	Status of the audio moderation job. Valid values: Submitted, Success, Failed, Auditing.	String
CreationTime	Response.JobsDetail	Creation time of the audio moderation job.	String

Error codes

No special error message will be returned for this request. For the common error messages, see Error Codes.

Use Cases

Request

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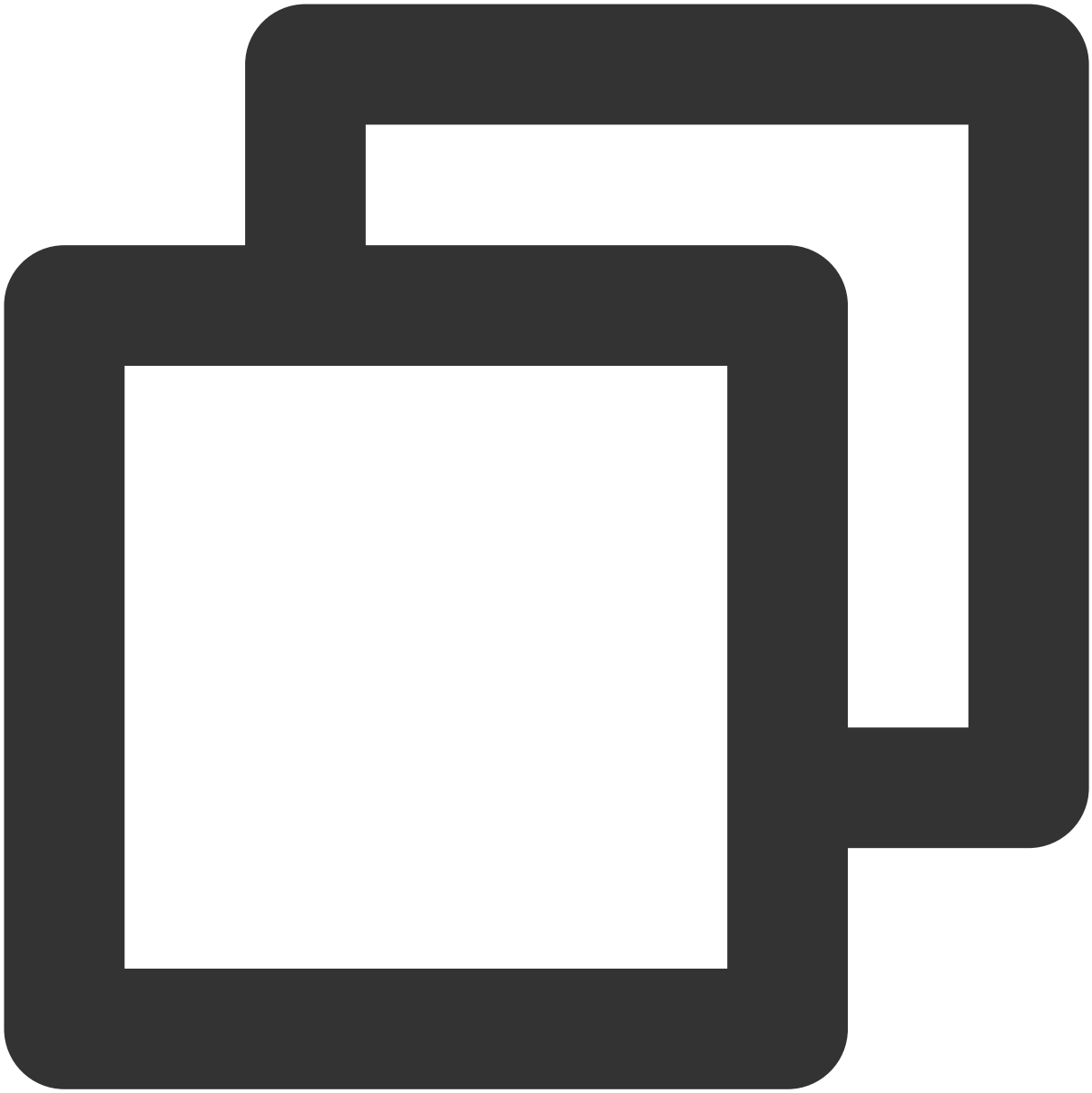

```
POST /audio/auditing HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
    <Input>
        <Object>a.mp3</Object>
        <DataId>123-fdrsg-123</DataID>
    </Input>
```

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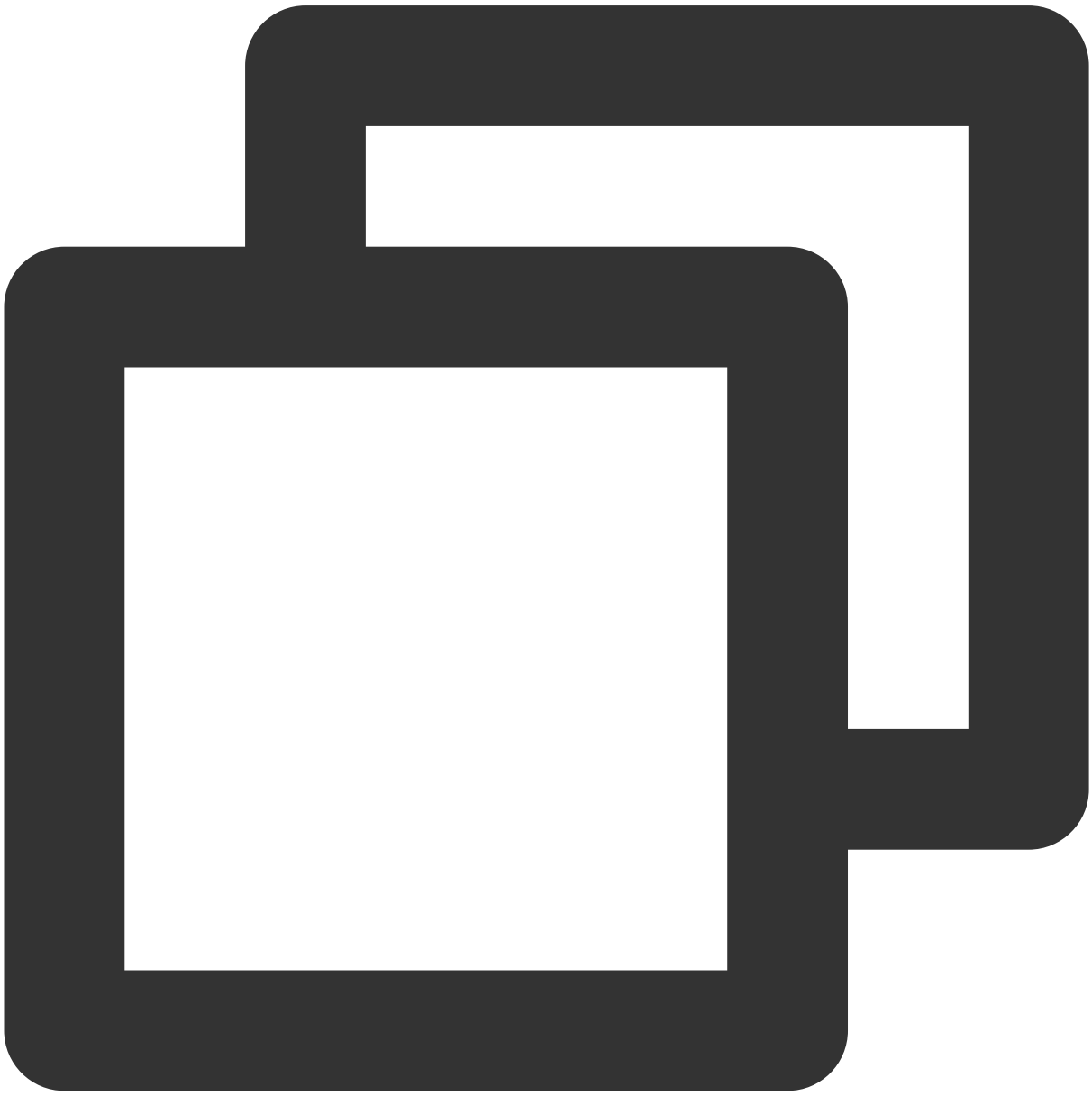
```
    <Conf>
        <BizType>b81d45f94xxxxxxxxa9506f45a11</BizType>
        <Callback>http://callback.com/</Callback>
    </Conf>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
```

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```
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <JobsDetail>
        <DataId>123-fdrsg-123</DataID>
        <JobId>vab1ca9fc8a3ed11ea834c525400863904</JobId>
        <State>Submitted</State>
        <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    </JobsDetail>
    <RequestId>xxxxxxxxxxxxxx</RequestId>
</Response>
```

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Querying Audio Moderation Job Result

Last updated：2024-06-12 16:01:53

Feature Description

This API is used to query the status or result of an audio moderation job.

Note:

Audio moderation results are retained for three months, so you can query moderation results in the past three months through this API.

Request

Sample request

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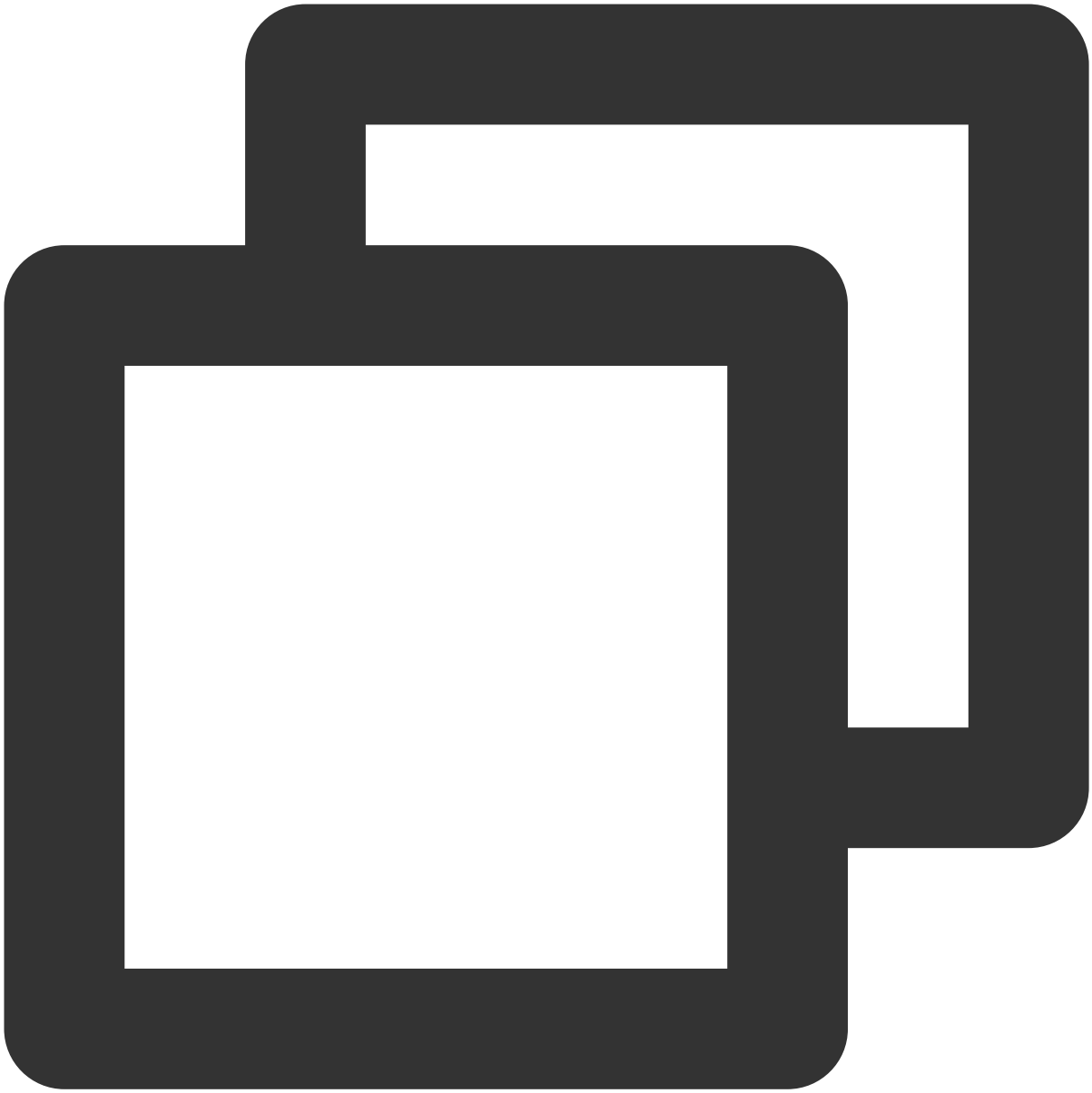

```
GET /audio/auditing/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (for more information, see Request Signature).

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

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Request body

This request does not have a request body.

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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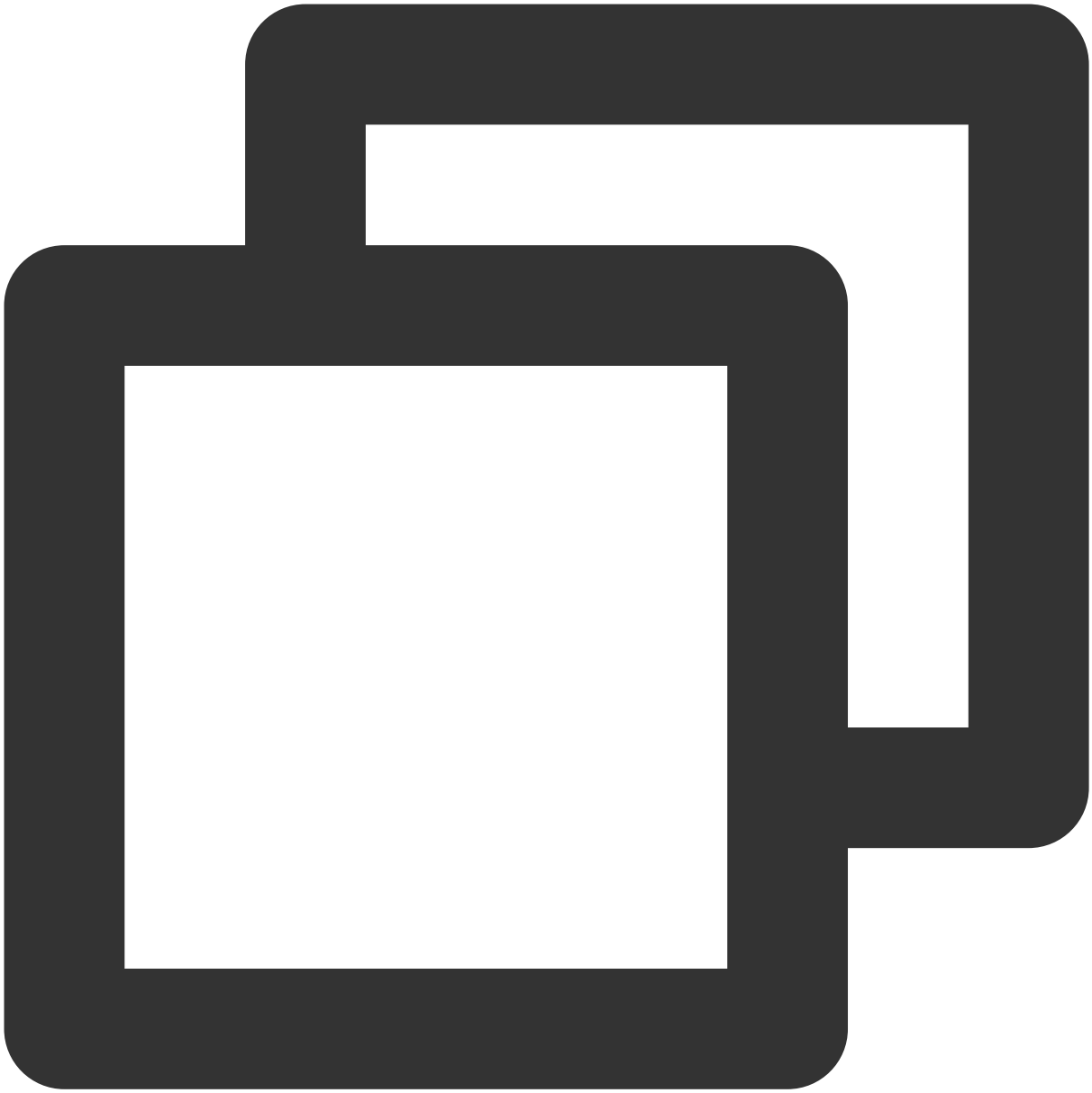

```
<Response>
  <JobsDetail>
    <Code>Success</Code>
    <Message>Success</Message>
    <DataId></DataId>
    <JobId></JobId>
    <State></State>
    <CreationTime></CreationTime>
    <Object></Object>
    <Result>1</Result>
    <AudioText></AudioText>
```

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```
    <PornInfo>
        <HitFlag></HitFlag>
        <Score></Score>
        <Label></Label>
    </PornInfo>
    <Section>
        <Url>https://cos.ap-guangzhou.myqcloud.com/0.mp3</Url>
          <OffsetTime>0</OffsetTime>
          <Duration>3000</Duration>
        <Text>Haha</Text>
        <PornInfo>
            <HitFlag></HitFlag>
            <Score></Score>
            <Keywords></Keywords>
        </PornInfo>
    </Section>
  </JobsDetail>
  <RequestId></RequestId>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Audio moderation job result.	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Details of the audio moderation job.	Container
RequestId	Response	The ID automatically generated by the server for a request when the request is sent, which can help locate problems faster.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code, which will be returned only if `State` is `Failed`. For more information, see Error Codes.	String
Message	Response.JobsDetail	Error description, which will be returned only if `State` is `Failed`.	String

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DataId	Response.JobsDetail	This field will return the original content in the moderation result, which can contain up to 512 bytes. You can use this field to uniquely identify the data to be moderated in your business.	String
JobId	Response.JobsDetail	ID of the audio moderation job.	String
State	Response.JobsDetail	Status of the audio moderation job. Valid values: Submitted, Success, Failed, Auditing.	String
CreationTime	Response.JobsDetail	Creation time of the audio moderation job.	String
Object	Response.JobsDetail	If the moderated audio file is a file stored in COS, this field indicates its filename.	String
Url	Response.JobsDetail	If the moderated audio file is at a URL, this field indicates the URL.	String
Label	Response.JobsDetail	This field is used to return the **maliciousness tag with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Returned values: `Normal`, `Porn`, `Ads`, and other types of unsafe or inappropriate content.	String
Result	Response.JobsDetail	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer
AudioText	Response.JobsDetail	This field is used to return the recognized text content of the audio file.	String
PornInfo	Response.JobsDetail	The moderation result of the **pornographic information** moderation scene.	Container
AdsInfo	Response.JobsDetail	The moderation result of the **advertising information** moderation scene.	Container
Section	Response.JobsDetail	When the audio is too long, it will be segmented. This field is used to return the moderation result of an audio segment, mainly including the start time and audio moderation result.	Container Array

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UserInfo	Response.JobsDetail	Business field. This field will not exist if `UserInfo` is not set during job creation.	Container

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.*Info	The moderation result returned for the moderation scene. Returned values: 0: Normal. 1: Confirmed as a violation of the current scene. 2: Suspected as a violation of the current scene.	Integer
Score	Response.JobsDetail.*Info	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer
Label	Response.JobsDetail.*Info	Result tag of this moderation job. If a sensitive keyword is hit, the keyword will be returned in this field.	String

`Section` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Url	Response.JobsDetail.Section	URL of the current audio segment, at which you can get the content of the segment. It must be a standard URL. Note: Each URL is valid for two hours. If you need to view the data after two hours, initiate a new query request.	String
Text	Response.JobsDetail.Section	This field is used to return the ASR text recognition result of the current audio segment.	String
OffsetTime	Response.JobsDetail.Section	This field is used to return the time where the current audio segment is in the entire audio in milliseconds, such as 5000 (i.e., 5000 milliseconds after the audio starts).	Integer

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Duration	Response.JobsDetail.Section	Duration of the current audio segment in milliseconds.	Integer
Label	Response.JobsDetail.Section	This field is used to return the **maliciousness tag with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Returned values: `Normal`, `Porn`, `Ads`, and other types of unsafe or inappropriate content.	String
Result	Response.JobsDetail.Section	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	Response.JobsDetail.Section	The moderation result of the **pornographic information** moderation scene.	Container
AdsInfo	Response.JobsDetail.Section	The moderation result of the **advertising information** moderation scene.	Container

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.Section.*Info	The moderation result returned for the moderation scene. Returned values: 0: Normal. 1: Confirmed as a violation of the current scene. 2: Suspected as a violation of the current scene.	Integer
Score	Response.JobsDetail.Section.*Info	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene.	Integer

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		For example, `Porn 99` means that the content is very likely to be pornographic.	
Category	Response.JobsDetail.Section.*Info	This field is a subset of `Label`, indicating the specific moderation category hit; for example, `Sexy` presents the sexy category in the `Porn` tag.	String
Keywords	Response.JobsDetail.Section.*Info	The sensitive keyword hit by the moderation job. Nothing will be returned if there is none.	String Array

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
TokenId	Response.JobsDetail.UserInfo	Business `TokenId`, which can contain up to 128 bytes.	String
Nickname	Response.JobsDetail.UserInfo	Business `Nickname`, which can contain up to 128 bytes.	String
DeviceId	Response.JobsDetail.UserInfo	Business `DeviceId`, which can contain up to 128 bytes.	String
AppId	Response.JobsDetail.UserInfo	Business `AppId`, which can contain up to 128 bytes.	String
Room	Response.JobsDetail.UserInfo	Business `Room`, which can contain up to 128 bytes.	String
IP	Response.JobsDetail.UserInfo	Business `IP`, which can contain up to 128 bytes.	String
Type	Response.JobsDetail.UserInfo	Business `Type`, which can contain up to 128 bytes.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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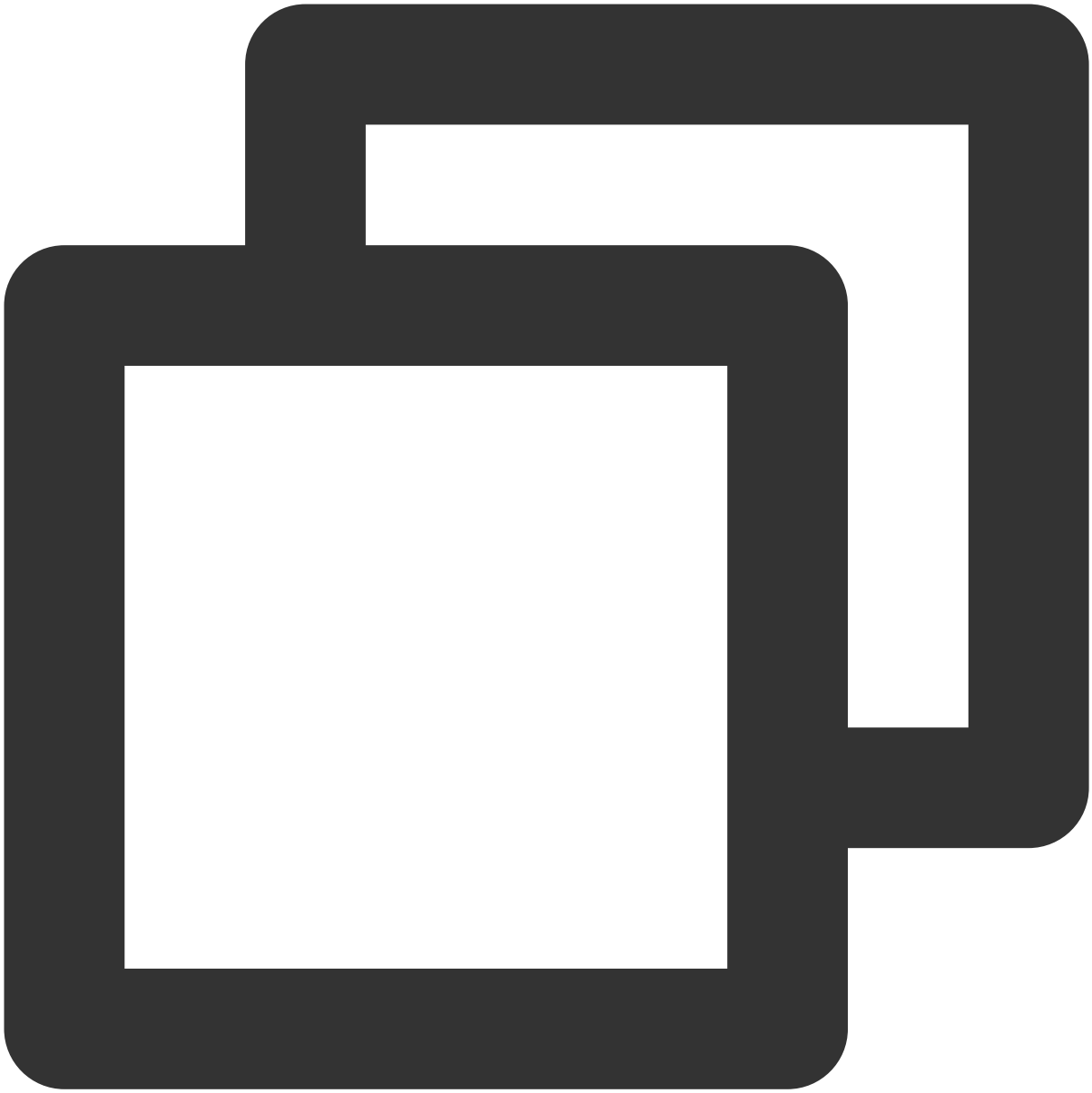

```
GET /audio/auditing/vab1ca9fc8a3ed11ea834c525400863904 HTTP/1.1
Accept: */*
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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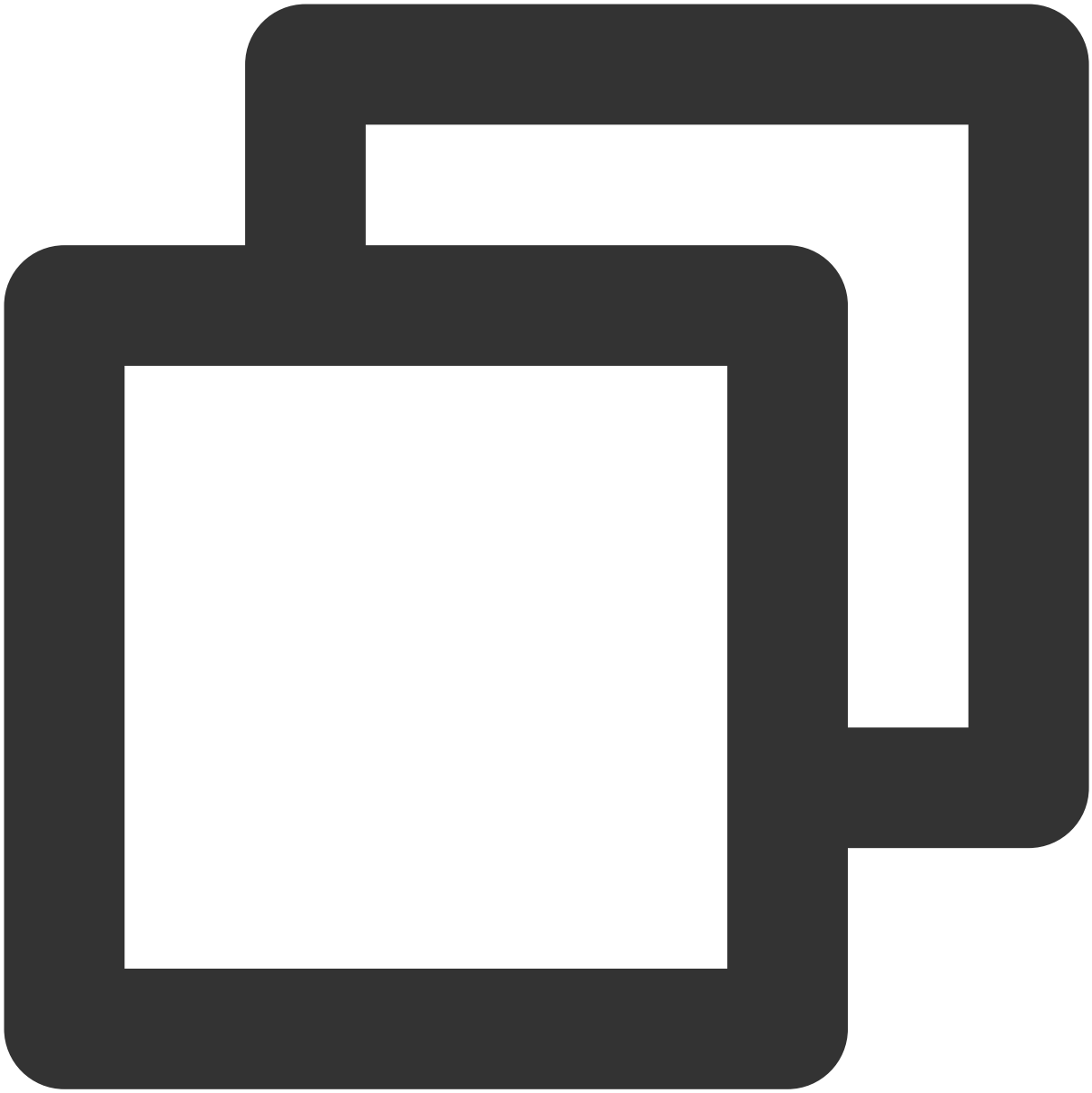

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
  <JobsDetail>
    <JobId>aab1ca9fc8a3ed11ea834c525400863904</JobId>
```

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```
    <State>Success</State>
    <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    <Object>a.mp3</Object>
    <Result>1</Result>
    <AudioText>wc xx</AudioText>
    <PornInfo>
        <HitFlag>1</HitFlag>
        <Score>91</Score>
        <Label>xx</Label>
    </PornInfo>
    <AdsInfo>
        <HitFlag>0</HitFlag>
        <Score>0</Score>
        <Label></Label>
    </AdsInfo>
    <Section>
        <AdsInfo>
            <HitFlag>0</HitFlag>
            <Score>0</Score>
        </AdsInfo>
        <Duration>30000</Duration>
        <OffsetTime>0</OffsetTime>
        <PornInfo>
            <HitFlag>1</HitFlag>
            <Score>91</Score>
            <Keywords>xx</Keywords>
            <Keywords>wc</Keywords>
        </PornInfo>
        <Text>wc xx</Text>
        <Url>https://auditing-1250000000.cos.ap-guangzhou.myqcloud.com/q9MhdztF/0.m
    </Section>
  </JobsDetail>
  <RequestId>xxxxxxxxxxxxxx</RequestId>
</Response>
```

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Audio Moderation Callback Content

Last updated：2024-06-12 16:01:53

Feature Description

If you have configured a moderation callback address, after audio moderation is completed, the backend will call back the moderation result in JSON format to the callback address. You can perform subsequent file processing operations based on the callback content.
The callback content is divided into simple callback (Simple) and detailed callback (Detail).

Callback Content Description

Simple callback (Simple)

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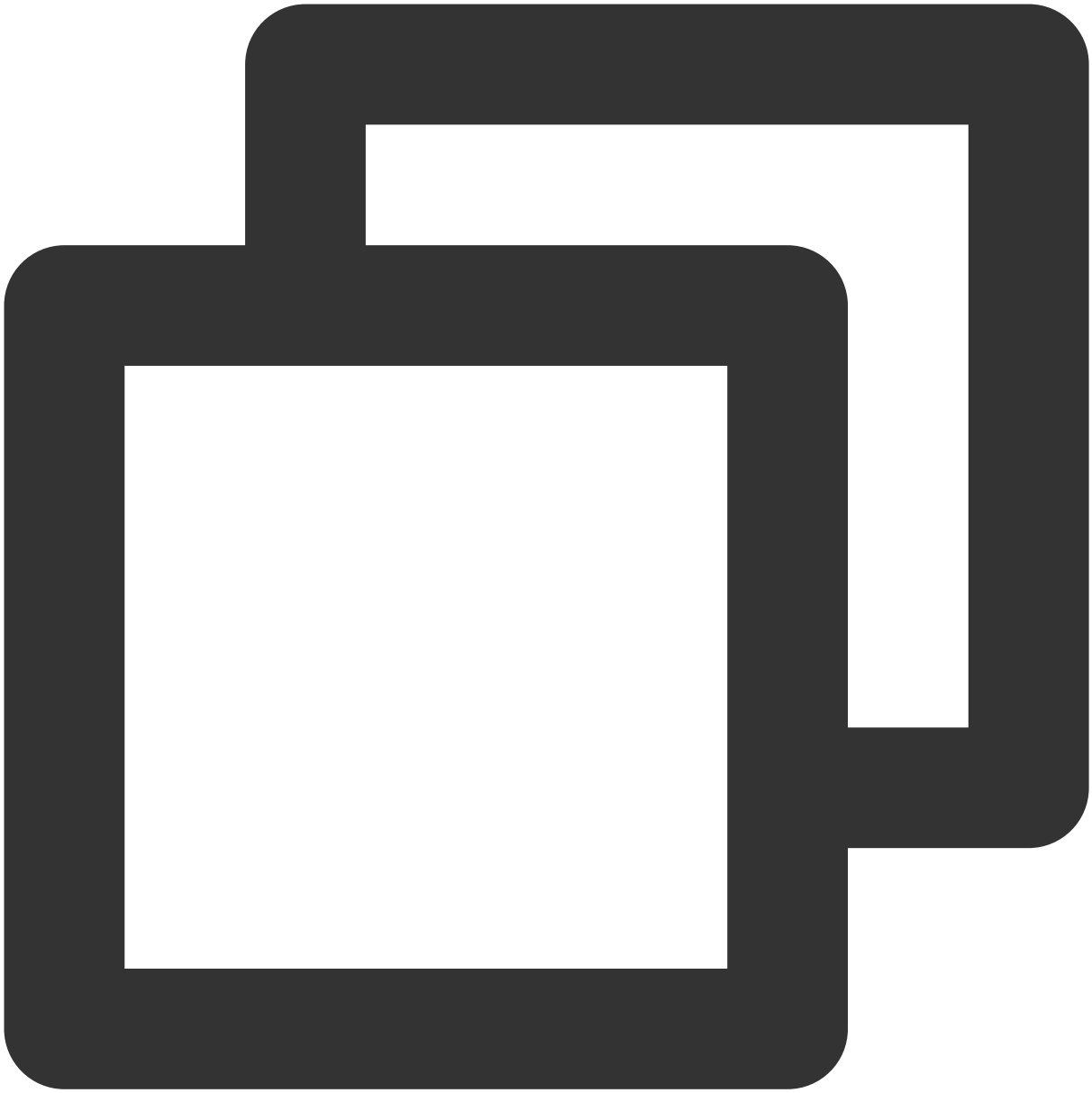


```
{
    "code": 0,
    "data": {
        "forbidden_status": 0,
        "porn_info": {
            "hit_flag": 0,
            "label": "",
            "score": 9
        },
        "result": 0,
        "trace_id": "test_trace_id",
```


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```
        "url": "test_audio",
        "cos_headers": {
            "x-cos-meta-xx": "xx"
        }
    },
    "message": "Test request when setting callback url"
}
```

The nodes are as described below:

Parameter	Description	Type	Required
code	Error code. 0: moderation succeeded; other values: moderation failed. For more information, see Error Codes.	Integer	Yes
message	Error message.	String	Yes
data	Details of the audio moderation result.	Object	Yes

`data` is as described below:

Parameter	Description	Type	Required
trace_id	Request ID. If the job is an async job created through an API, this value is the `JobId` returned by the API.	String	Yes
url	Full URL of the moderated audio.	String	Yes
event	Triggered event, which is fixed at `ReviewAudio` here.	String	Yes
result	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer	Yes
forbidden_status	If you set auto-freezing, this field indicates the frozen status of the audio. 0: not frozen, 1: frozen, 2: file moved.	Integer	Yes
cos_headers	The custom header content set when the resource is uploaded. If it is not set, it will not be returned.	Object	No
porn_info	The moderation result of the **pornographic information** moderation scene.	Object	No
ads_info	The moderation result of the **advertising information** moderation scene.	Object	No

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data_id	The original content will be returned if the `DataId` parameter is set when the job is submitted, which can contain up to 512 bytes.	String	No

`xx_info` is as described below:

Parameter	Description	Type	Required
hit_flag	The moderation result returned for the moderation scene. Returned values: 0: Normal. 1: Confirmed as a violation of the current scene. 2: Suspected as a violation of the current scene.	Integer	Yes
score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer	Yes
label	Result tag of this moderation job. If a sensitive keyword is hit, the keyword will be returned in this field.	String	Yes

Detail callback (Detail)

The callback notification adopts the `POST` method of HTTP, with the `X-Ci-Content-Version: Detail` header.

The response body returns **application/json** data. The following contains all the nodes:

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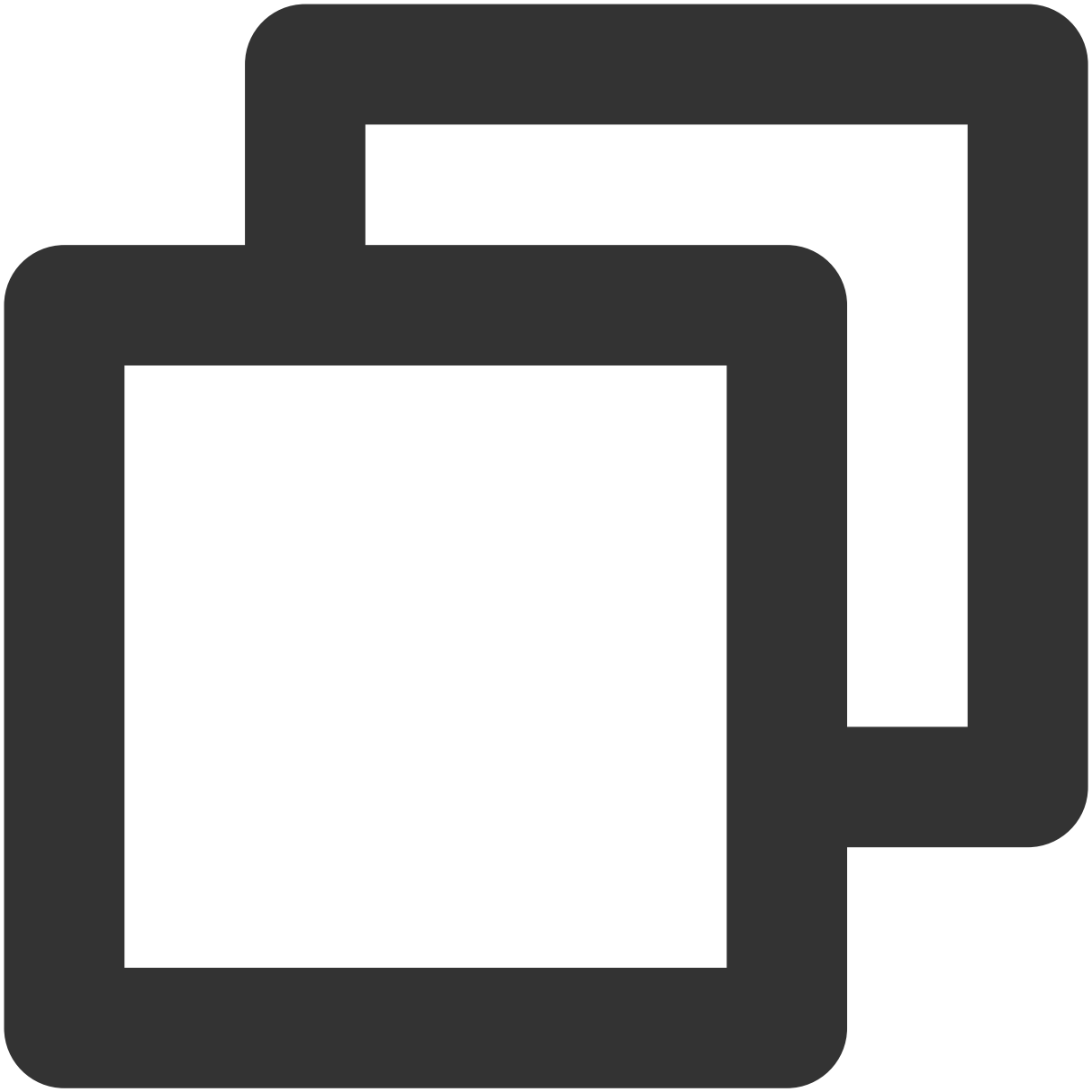

```
{
  "EventName": "ReviewAudio",
  "JobsDetail": {
    "JobId": "xxxxxx",
    "State": "Success",
    "CreationTime": "",
    "Object": "",
    "Label": "Normal",
    "Result": 0,
    "AudioText": "        ",
    "PornInfo": {
```

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```
        "HitFlag": 0,
        "Score": 0,
        "Label": ""
      },
      "AdsInfo": {
        "HitFlag": 0,
        "Score": 0,
        "Label": ""
      },
      "Section": [
        {
          "Url": "",
          "Text": "",
          "OffsetTime": 0,
          "Duration": 30000,
          "Label": "Normal",
          "Result": 0,
          "PornInfo": {
            "HitFlag": 0,
            "Score": 0
          },
          "AdsInfo": {
            "HitFlag": 0,
            "Score": 0
          }
        }
      ],
      "BucketId": "",
      "Region": "ap-chongqing",
      "ForbidState": 0,
      "CosHeaders": {
          "x-cos-meta-id": "xxxx"
      }
    }
}
```

The nodes are as described below:

Node Name (Keyword)	Description	Type
JobsDetail	Job result details.	Object
EventName	Job type: ReviewAudio.	String

`JobsDetail` has the following sub-nodes:

Node Name	Description	Type

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(Keyword)		
Code	Error code, which will be returned only if `State` is `Failed`. For more information, see Error Codes.	String
Message	Error description, which will be returned only if `State` is `Failed`.	String
JobId	ID of the audio moderation job.	String
DataId	The original content will be returned if the `DataId` parameter is set when the job is submitted, which can contain up to 512 bytes.	String
State	Status of the audio moderation job. Valid values: Submitted, Success, Failed, Auditing.	String
CreationTime	Creation time of the audio moderation job.	String
Object	The name of the audio file to be moderated, which will be returned if `Object` is selected during job creation.	String
Url	The URL of the audio file to be moderated, which will be returned if `Url` is selected during job creation.	String
Label	This field is used to return the **maliciousness tag with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Returned values: `Normal`, `Porn`, and `Ads`.	String
Result	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2 (suspiciously sensitive, with human review recommended).	Integer
AudioText	This field is used to return the recognized text content of the audio file.	String
PornInfo	The moderation result of the **pornographic information** moderation scene.	Object
AdsInfo	The moderation result of the **advertising information** moderation scene.	Object
Section	When the audio is too long, it will be segmented. This field is used to return the moderation result of an audio segment, mainly including the start time and audio moderation result.	Array
BucketId	Name of the bucket of the created audio moderation job.	String
Region	Bucket region.	String

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ForbidState	If you set automatic freezing, this field indicates the status of the audio. 0: not frozen; 1: frozen, 2: file moved.	Integer
CosHeaders	The custom header content set when the resource is uploaded to COS. If it is not set, it will not be returned. It is in a map structure, where `key` is the custom header name and `value` is the content.	Object
UserInfo	Business field. This field will not exist if `UserInfo` is not set during job creation.	Object

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Description	Type
HitFlag	The moderation result returned for the moderation scene. Returned values: 0: Normal. 1: Confirmed as a violation of the current scene. 2: Suspected as a violation of the current scene.	Integer
Score	Moderation result score. The higher the score, the more sensitive the content is.	Integer
Label	Result tag of this moderation job. If a sensitive keyword is hit, the keyword will be returned in this field.	String

`Section` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Url	URL of the current audio segment, at which you can get the content of the segment. It must be a standard URL. Note: Each URL is valid for two hours. If you need to view the data after two hours, initiate a new query request.	String
Text	This field is used to return the ASR text recognition result of the current audio segment.	String
OffsetTime	This field is used to return the time where the current audio segment is in the entire audio in milliseconds, such as 5000 (i.e., 5000 milliseconds after the audio starts).	Integer
Duration	Duration of the current audio segment in milliseconds.	Integer
Label	This field is used to return the **maliciousness tag with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions	String

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	based on your business needs. Returned values: `Normal`, `Porn`, and `Ads`.	
Result	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	The moderation result of the **pornographic information** moderation scene.	Object
AdsInfo	The moderation result of the **advertising information** moderation scene.	Object

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Description	Type
HitFlag	The moderation result returned for the moderation scene. Returned values: 0: Normal. 1: Confirmed as a violation of the current scene. 2: Suspected as a violation of the current scene.	Integer
Score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer
Category	This field is a subset of `Label`, indicating the specific moderation category hit; for example, `Sexy` presents the sexy category in the `Porn` tag.	String
Keywords	The sensitive keyword hit by the moderation job. Nothing will be returned if there is none.	Array

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type
TokenId	Business `TokenId`, which can contain up to 128 bytes.	String
Nickname	Business `Nickname`, which can contain up to 128 bytes.	String
DeviceId	Business `DeviceId`, which can contain up to 128 bytes.	String
AppId	Business `AppId`, which can contain up to 128 bytes.	String

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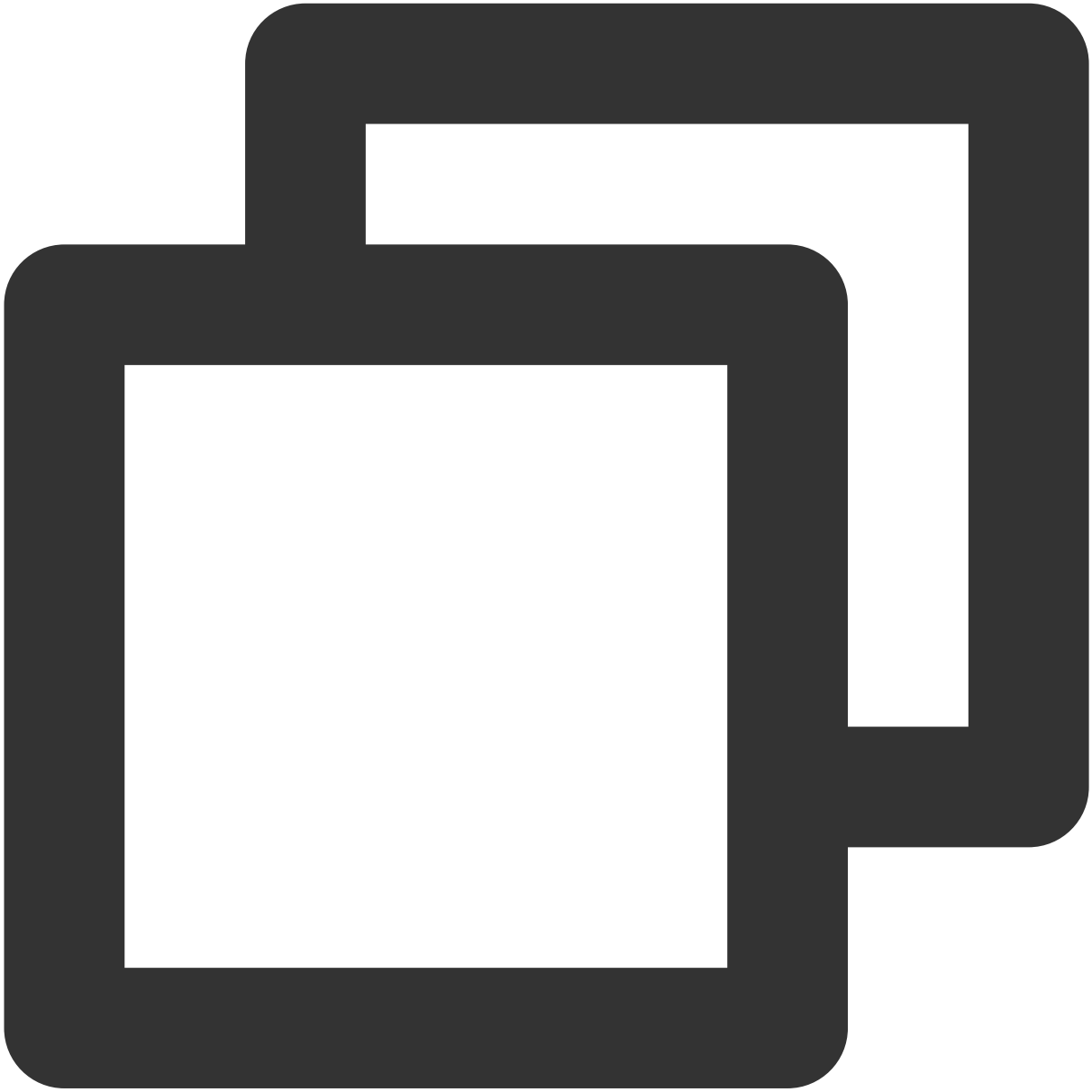
Room	Business `Room` , which can contain up to 128 bytes.	String
IP	Business `IP` , which can contain up to 128 bytes.	String
Type	Business `Type` , which can contain up to 128 bytes.	String

Samples

Sample 1: Simple callback (Simple)



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```
{
    "code": 0,
    "data": {
        "event":"ReviewAudio",
        "forbidden_status": 0,
        "porn_info": {
            "hit_flag": 0,
            "label": "",
            "score": 9
        },
        "result": 0,
        "trace_id": "ixzt90jl2dfscxxxxxxxxxxxxxxxxx",
        "url": "https://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/music.
        "cos_headers": {
            "x-cos-meta-id": "666666"
        }
    },
    "message": "success"
}
```


Sample 2: Detailed callback (Detail)

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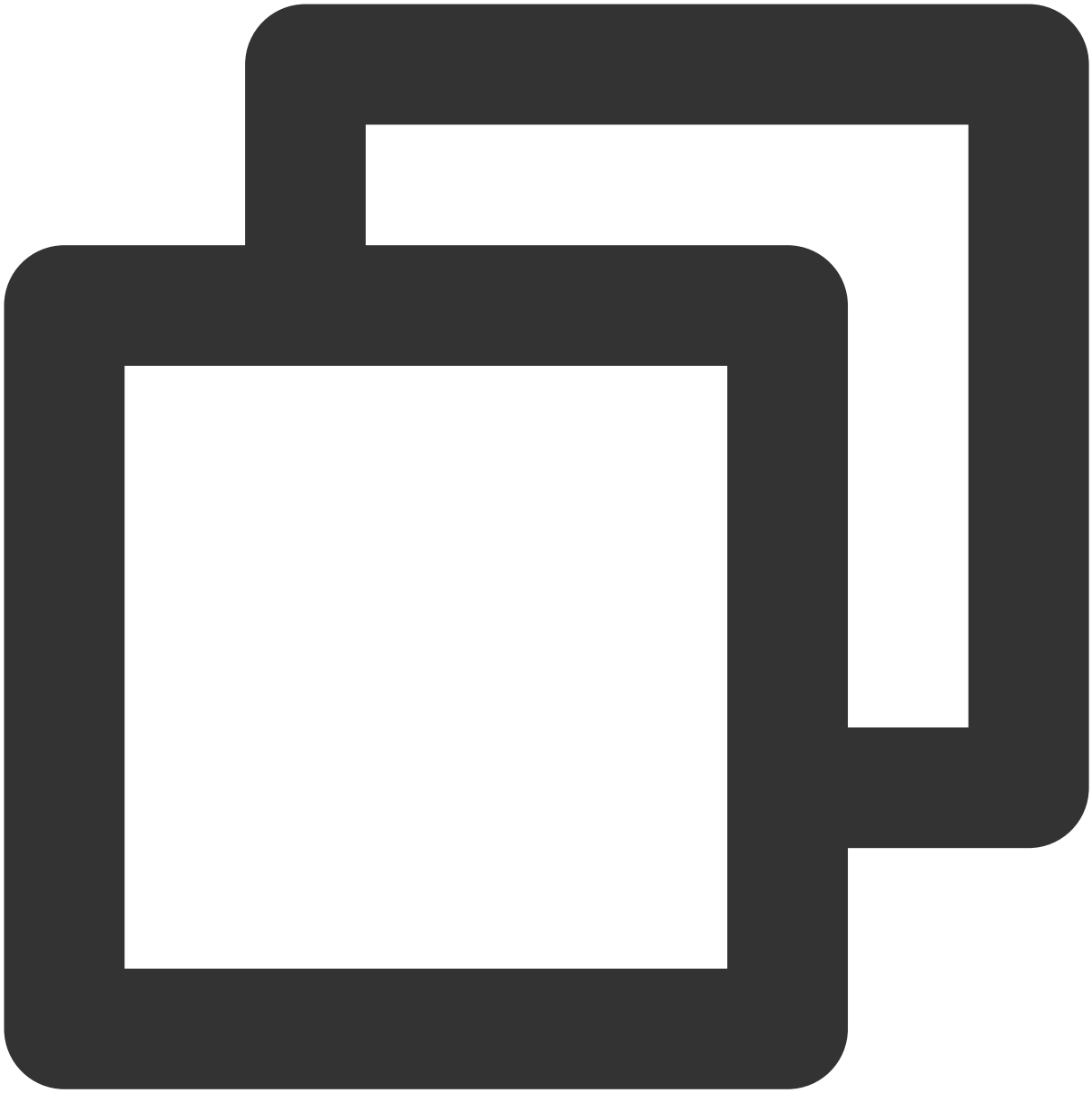


```
{
  "EventName": "ReviewAudio",
  "JobsDetail": {
    "JobId": "xxxxxx",
    "State": "Success",
    "CreationTime": "2021-08-10T21:01:08+08:00",
    "Object": "1.mp3",
    "Result": 0,
    "AudioText": "       ",
    "PornInfo": {
      "HitFlag": 0,
```


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```
        "Score": 0,
        "Label": ""
      },
      "AdsInfo": {
        "HitFlag": 0,
        "Score": 0,
        "Label": ""
      },
      "Section": [
        {
          "Url": "https://audio-1250000000.cos.ap-guangzhou.myqcloud.com/0.mp3",
          "Text": "",
          "OffsetTime": 0,
          "Duration": 30000,
          "PornInfo": {
            "HitFlag": 0,
            "Score": 0
          },
          "AdsInfo": {
            "HitFlag": 0,
            "Score": 0
          }
        }
      ],
      "BucketId": "examplebucket-1250000000",
      "Region": "ap-chongqing",
      "ForbidState": 0,
      "CosHeaders": {
          "x-cos-meta-id": "xxxx"
      }
    }
}
```


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Text Moderation
Synchronized Moderation of Text Content

Last updated：2024-06-12 16:01:53

Feature Overview

This API is designed for the direct moderation of text content, operating on a synchronous request basis.
The following lists the characteristics of this API:
Note：
Plaintext needs to be Base64-encoded (UTF8 encoding only) before direct moderation is implemented.
Recognition of multiple non-compliant scenes is supported, including pornographic, illegal, and advertising scenes.
Setting Moderation Policy supports diverse business scenarios.

Authorization Guidelines

In the authorization policy, set action to `ci:CreateAuditingTextJob` . View all actions.

Service Activation

Cloud Infinite (CI) needs to be enabled with buckets bound before you use this function. For details, see Bind Bucket.

Prerequisites

Before using this API, please check all relevant limitations. For details, see Specifications and Limits.

Pricing

Each moderation scene is billed separately. For example, if you select moderation for both pornographic and advertising scenes, moderating **one piece of text** will **result in charges for two moderation actions**.
Length limit: Plaintext needs to be Base64-encoded before direct moderation is implemented. The original text length before encoding must not exceed 10,000 UTF8-encoded characters.

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Language support in text moderation: Currently, the system supports detection in Chinese, mixed Chinese and English, and Arabic numerals.

SDK Recommended

The COS SDK offers complete demo, automated integration, signature calculations, and other capabilities. The SDK allows for a more convenient and swift way to call APIs. Click here to view SDK documentation.

Request

Request Example

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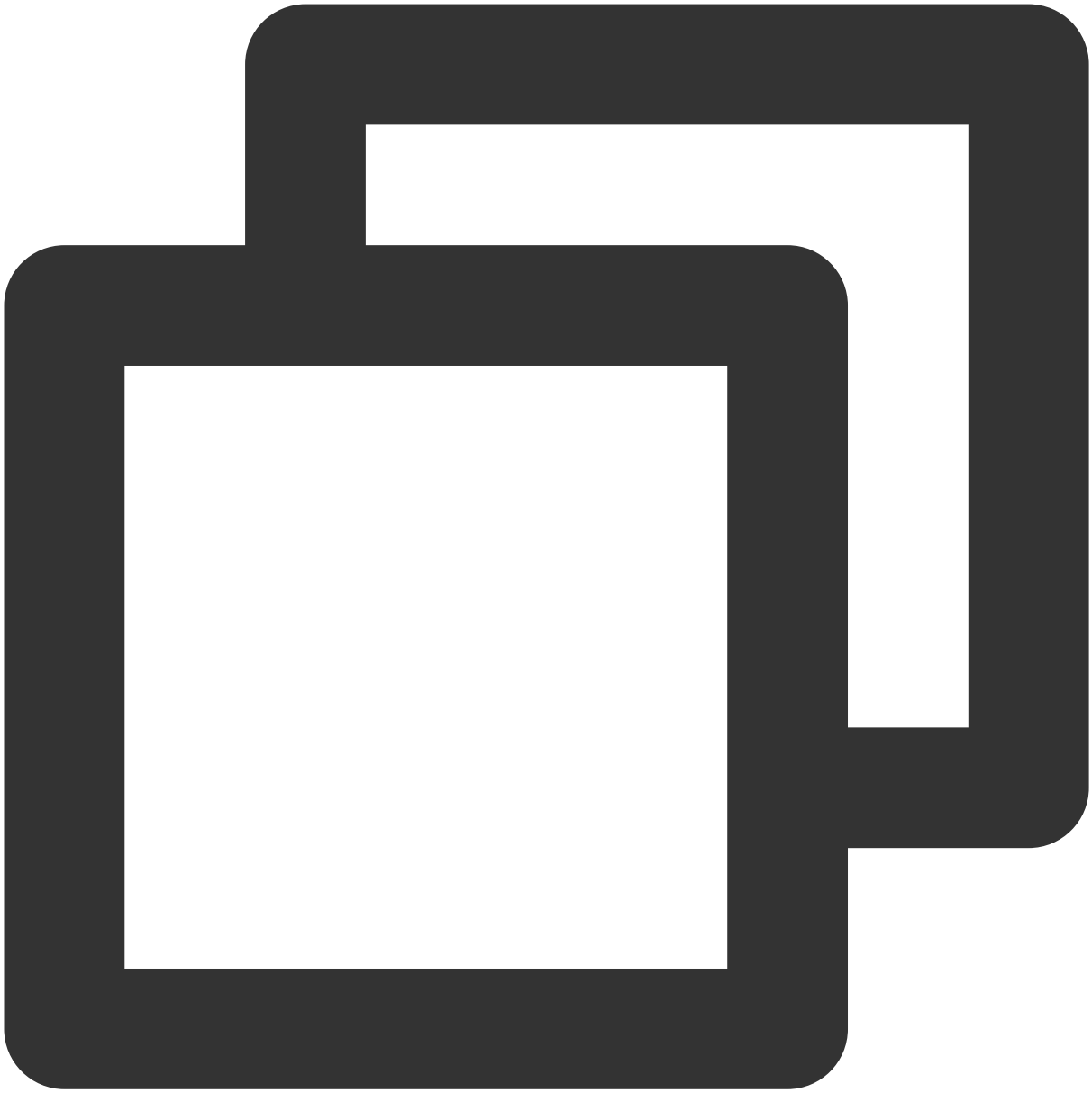

```
POST /text/auditing HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note：

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Authorization: Auth String (For more information, see Request Signature.)

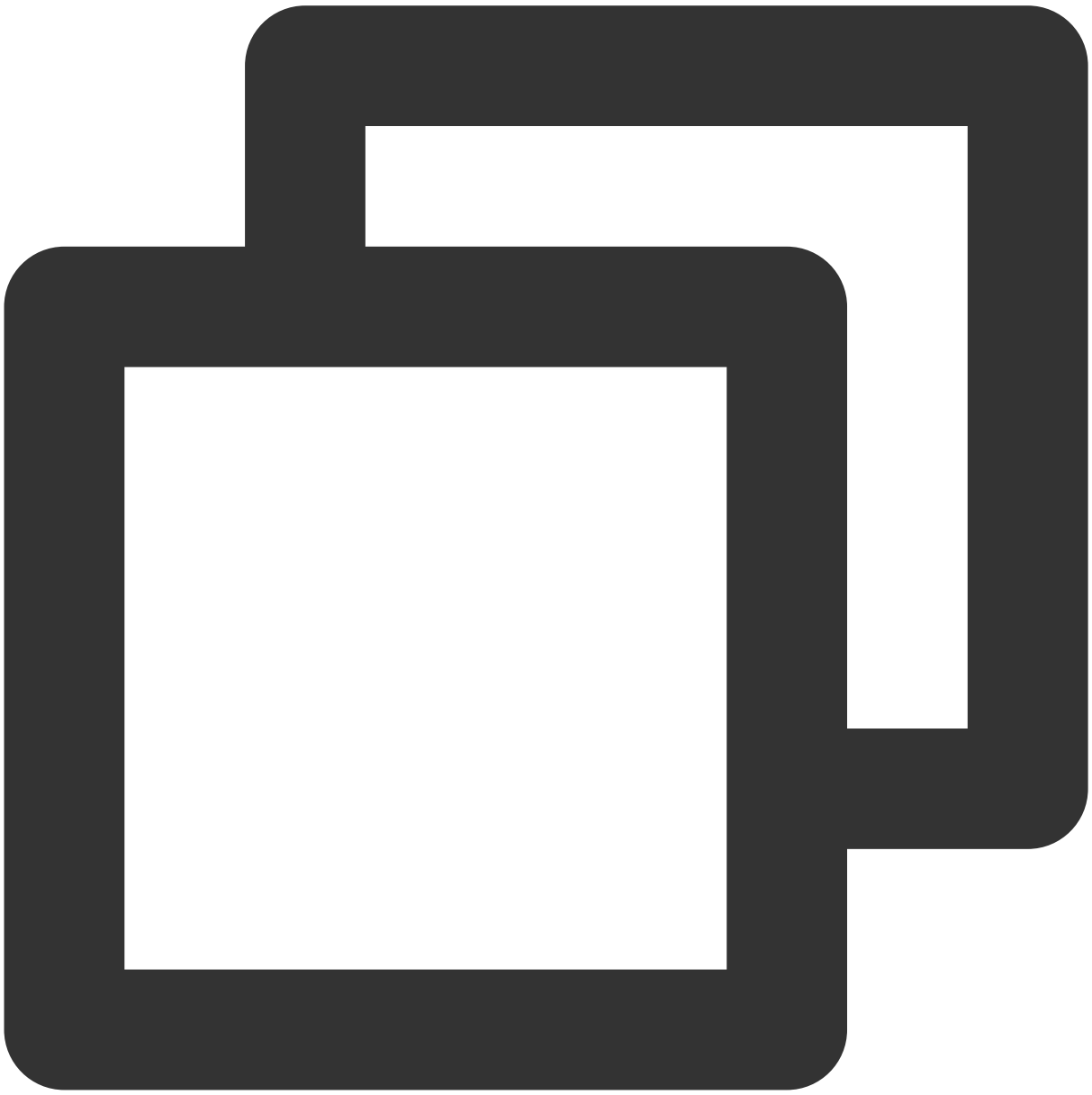
When it is used through a sub-account, related permissions need to be assigned. For details, see Authorization Granularity Details.

Request Header

This API only uses common request headers. For details, see Common Request Headers.

Request Body

The implementation of this request action requires the following request body:



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```
<Request>
  <Input>
    <Content></Content>
    <DataId></DataId>
  </Input>
  <Conf>
    <Callback></Callback>
    <CallbackVersion></CallbackVersion>
    <CallbackType></CallbackType>
    <BizType></BizType>
    <Freeze>
      <PornScore></PornScore>
    </Freeze>
  </Conf>
</Request>
```

The following details the data description:

Node Name (Keyword)	Parent Node	Description	Type	Required or Not
Request	No	The specific configuration item for text moderation.	Container	Yes

The data description for Request of the Container type is as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required or Not
Input	Request	Content requiring moderation.	Container	Yes
Conf	Request	Configuration of moderation rules.	Container	Yes

The data description for Input of the Container type is as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required or Not
Content	Request.Input	When the input is plaintext, it should first be Base64-encoded. The text length before encoding cannot exceed 10,000 UTF-8 encoded characters. If this length limit is exceeded, the API will return an error.Note: Currently, detection and moderation are	String	No

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		supported in Chinese, mixed Chinese and English, and Arabic numerals. If you need to implement moderation in other languages, please contact us.		
DataId	Request.Input	This field in the moderation result will return the original content, with a length limit of 512 bytes. You can use this field to uniquely identify the data to be moderated.	String	No
UserInfo	Request.Input	User business field.	Container	No

UserInfo content of the Container node:

Node Name (Keyword)	Description	Type	Required or Not
TokenId	It usually indicates account information, limited to 128 bytes in length.	String	No
Nickname	It usually indicates nickname information, limited to 128 bytes in length.	String	No
DeviceId	It usually indicates device information, limited to 128 bytes in length.	String	No
AppId	It usually indicates a unique identifier for the App, limited to 128 bytes in length.	String	No
Room	It usually indicates room number information, limited to 128 bytes in length.	String	No
IP	It usually indicates IP address information, limited to 128 bytes in length.	String	No
Type	It usually indicates the business type, limited to 128 bytes in length.	String	No
ReceiveTokenId	It usually indicates the user account for receiving messages, limited to 128 bytes in length.	String	No
Gender	It usually indicates gender data, limited to 128 bytes in length.	String	No
Level	It usually indicates level information, limited to 128 bytes in length.	String	No
Role	It usually indicates role details, limited to 128 bytes in length.	String	No

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The data description for Conf of the Container type is as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required or Not
BizType	Request.Conf	It indicates a unique identifier for the moderation policy. You can set the scenes you want to moderate, such as pornography, advertising, or illegal content, through the moderation policy page on the console. Follow these guidelines to configure: Setting Moderation Policy. BizType can be obtained from the console. When you specify BizType, this moderation request will enable moderation according to the scenes configured in the policy. If BizType is left blank, the default moderation policy will be applied automatically.	String	No
Callback	Request.Conf	The moderation results can be sent to your callback address in a callback form. It supports addresses starting with `http://` or `https://` , such as: `http://www.callback.com` . When Input is set to Content, this parameter is not effective, and results will be returned directly.	String	No
CallbackVersion	Request.Conf	The structure of the callback content. Valid values: Simple (the callback content includes basic information), Detail (the callback content includes detailed information). The default value is Simple.	String	No
CallbackType	Request.Conf	The type of callback segment. Valid values: 1 (all text segments are recalled), 2 (non-compliant text segments are recalled). The default value is 1.	Integer	No
Freeze	Request.Conf	This field allows you to automatically block text files based on the different scores given according to the moderation results. It is effective only when the text moderated in input is object.	Container	No

The data description for Freeze of the Container type is as follows:

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Node Name (Keyword)	Parent Node	Description	Type	Required or Not
PornScore	Request.Conf.Freeze	The value range is [0,100]. A block operation will be carried out automatically when the pornographic content moderation score equals or exceeds the given score. If it is left blank, an automatic block operation will not occur. The default value is null.	Integer	No
AdsScore	Request.Conf.Freeze	The value range is [0,100]. The file will be automatically blocked when the advertising moderation score equals or exceeds the specified score. If it is left blank, an automatic block operation will not occur. The default value is null.	Integer	No
IllegalScore	Request.Conf.Freeze	The value range is [0,100]. The file will be automatically blocked if the illegal content moderation result equals or exceeds this score. If it is left blank, an automatic block operation will not occur. The default value is null.	Integer	No
AbuseScore	Request.Conf.Freeze	The value range is [0,100]. The file will be automatically blocked if the verbal abuse moderation result equals or exceeds this score. If it is left blank, an automatic block operation will not occur. The default value is null.	Integer	No

For block parameters in other moderation scenarios, please contact our service team.

Response

Response Header

This API only returns common response headers. For more information, see Common Response Headers.

Response Body

The response body returns **application/xml** data. The following displays complete node data:

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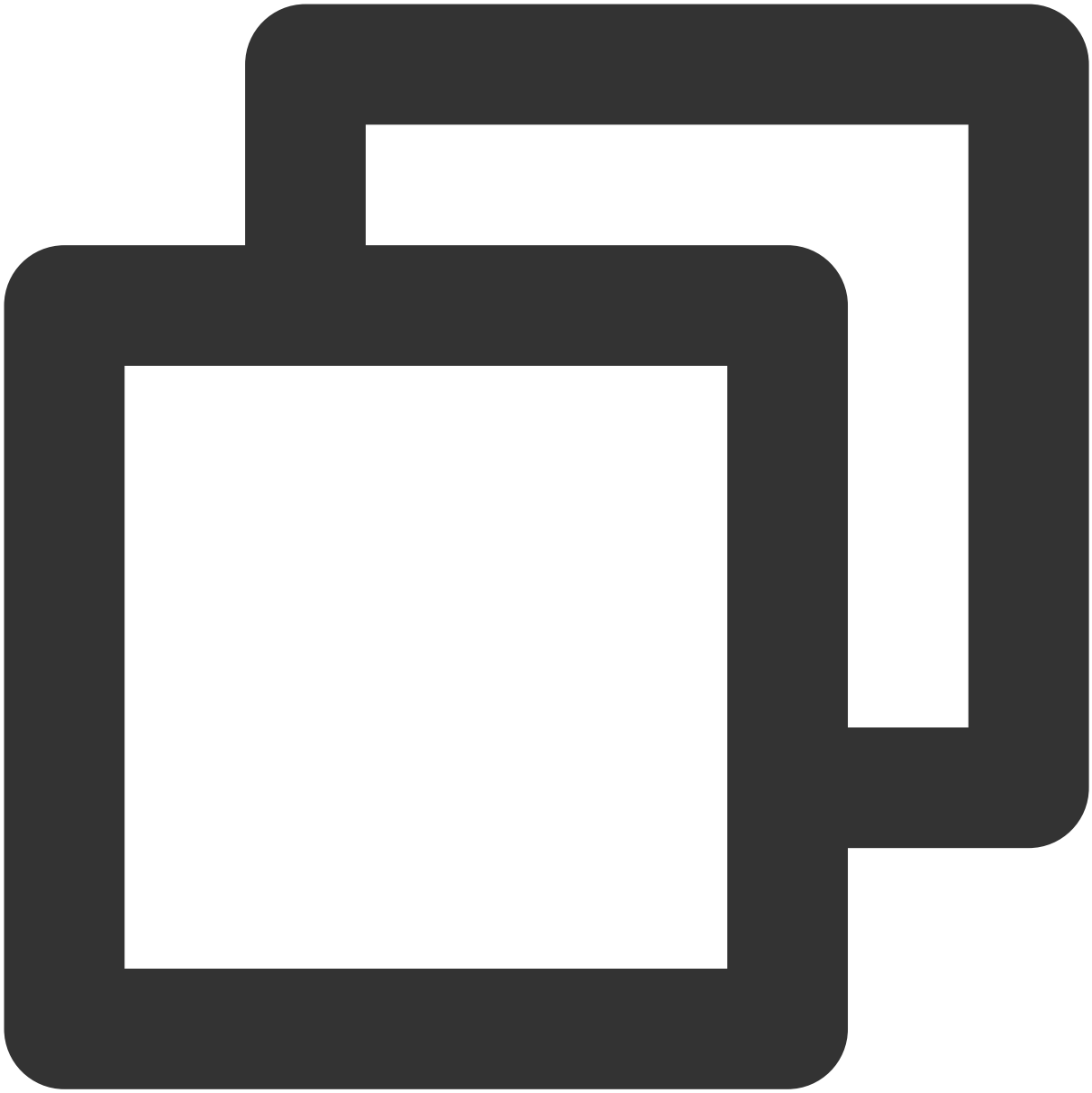

```
<Response>
  <JobsDetail>
    <DataId></DataId>
    <JobId></JobId>
    <State></State>
    <CreationTime></CreationTime>
    <Code>Success</Code>
    <Message>Success</Message>
    <SectionCount></SectionCount>
    <Result>1</Result>
    <PornInfo>
```

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```
      <HitFlag></HitFlag>
      <Count></Count>
    </PornInfo>
    <Section>
      <StartByte></StartByte>
      <PornInfo>
        <HitFlag></HitFlag>
        <Score></Score>
        <Keywords></Keywords>
      </PornInfo>
    </Section>
  </JobsDetail>
  <RequestId></RequestId>
</Response>
```

The specific data content is as follows:

Node Name (Keyword)	Parent Node	Description	Type
Response	No	The specific response content returned by text moderation.	Container

`Response` content of the Container node:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Detailed information of text moderation.	Container
RequestId	Response	When a request is send, the server automatically creates an ID specific to the request, assisting in locating encountered problems.	String

JobsDetail content of the Container node:

Node Name (Keyword)	Parent Node	Description	Type
Code	Response.JobsDetail	Error code. It is returned only if State is Failed. For more information, see Error Codes.	String
DataId	Response.JobsDetail	Unique business identifier added in the request.	String
Message	Response.JobsDetail	Error description. It is returned only when State is Failed.	String

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JobId	Response.JobsDetail	Task ID of this text moderation operation.	String
CreationTime	Response.JobsDetail	Creation time of the text moderation.	String
State	Response.JobsDetail	Status of the text moderation. Valid values include Success (moderation succeeded) and Failed (moderation failed).	String
Content	Response.JobsDetail	Base64-encoded text content.	String
ContextText	Response.JobsDetail	When the text context correlation moderation capability is activated, this field, along with the current text under moderation and its associated text, will be returned in their original forms.Note: When you use the context correlation capabilities, it is necessary to incorporate the UserInfo field during the initiation of a text moderation operation. It indicates that the correlated context is specific to a particular user ID, and the text content uploaded by different user IDs will not be correlated.To enable context correlation capabilities, please contact our service team for activation.	String
Label	Response.JobsDetail	This field returns the moderation results which correspond to the **malicious tag with the highest priority** and are recommended by the model. It is recommended that you handle different types of violations and suggested values based on the business requirements. Returned values include: **Normal**: normal, **Porn**: pornography, **Ads**: advertising, along with other types of unsafe or inappropriate content.	String
Result	Response.JobsDetail	This field indicates the moderation result of the current assessment. You can perform subsequent operations based on the results. Valid values: **0** (normal), **1** (sensitive and non-compliant files), and **2** (possibly sensitive, with manual moderation recommended).	Integer
SectionCount	Response.JobsDetail	The number of content segments for text moderation. The value is fixed at 1.	Integer
PornInfo	Response.JobsDetail	The moderation result of the **pornographic content** moderation scene.	Container
AdsInfo	Response.JobsDetail	The moderation result of the **advertising content**	Container

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		moderation scene.	
IllegalInfo	Response.JobsDetail	The moderation result of the **illegal content** moderation scene.	Container
AbuseInfo	Response.JobsDetail	The moderation result of the **abusive content** moderation scene.	Container
Section	Response.JobsDetail	The specific result information of text moderation.	Container Array
UserInfo	Response.JobsDetail	User business field.	Container
ListInfo	Response.JobsDetail	Account whitelist/blacklist results.	Container

PornInfo, AdsInfo, IllegalInfo, AbuseInfo content of the Container node:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.*Info	It is used to return moderation results of the corresponding scene. Returned values: 0: normal, 1: confirmed as violation content of the current scene, 2: suspected as violation content of the current scene.	Integer
Count	Response.JobsDetail.*Info	The number of segments that match the moderation classification.	Integer
Score	Response.JobsDetail.*Info	This field indicates the confidence of the matched moderation information, with a range of 0 (**lowest confidence**) to 100 (**highest confidence**). A higher confidence indicates a higher possibility that the content belongs to the returned moderation information. For example, if the confidence for pornography is 99, the content is highly likely to be pornographic content.	Integer

Section content of the Container node:

Node Name (Keyword)	Parent Node	Description	Type
StartByte	Response.JobsDetail.Section	The location within the text where the segment begins (that is, 10 represents the 11th UTF-8 character). It starts from 0.	Integer

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Label	Response.JobsDetail.Section	This field returns the moderation results which correspond to the **malicious tag with the highest priority** and are recommended by the model. It is recommended that you handle different types of violations and suggested values based on the business requirements. Returned values include: **Normal**: normal, **Porn**: pornography, **Ads**: advertising, along with other types of unsafe or inappropriate content.	String
Result	Response.JobsDetail.Section	This field indicates the moderation result of the current assessment. You can perform subsequent operations based on the results. Valid values: **0** (normal), **1** (sensitive and non-compliant files), and **2** (possibly sensitive, with manual moderation recommended).	Integer
PornInfo	Response.JobsDetail.Section	The moderation result of the **pornographic content** moderation scene.	Container
AdsInfo	Response.JobsDetail.Section	The moderation result of the **advertising content** moderation scene.	Container
IllegalInfo	Response.JobsDetail.Section	The moderation result of the **illegal content** moderation scene.	Container
AbuseInfo	Response.JobsDetail.Section	The moderation result of the **abusive content** moderation scene.	Container

PornInfo, AdsInfo, IllegalInfo, AbuseInfo content of the Container node:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.Section.*Info	It is used to return moderation results of the corresponding scene. Returned values: 0: normal, 1: confirmed as violation content of the current scene, 2: suspected as violation content of the current scene.	Integer
Score	Response.JobsDetail.Section.*Info	The moderation result score within this segment. Higher scores indicate more	Integer

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		sensitive content.	
Keywords	Response.JobsDetail.Section.*Info	Keywords matched under the current moderation scene. Multiple keywords are separated by ",".	String
LibResults	Response.JobsDetail.Section.*Info	This field is used to return results identified through the text risk library. Note: This field is not returned when no samples within the risk library have been matched.	Container Array
SubLabel	Response.JobsDetail.Section.*Info	This field indicates the specific sub-tags matched in the moderation. For example: the SexBehavior sub-tag under Porn. Note: This field may return null, indicating that no specific sub-tags are matched.	String

`LibResults` content of the `Container` node:

Node Name (Keyword)	Parent Node	Description	Type
LibType	Response.JobsDetail.Section.*Info.LibResults	Type of the matched text risk library. Valid values include 1 (preset text library) and 2 (custom text risk library).	Integer
LibName	Response.JobsDetail.Section.*Info.LibResults	Name of the risk library hit.	String
Keywords	Response.JobsDetail.Section.*Info.LibResults	Keywords matched in the library. This parameter may return multiple values, indicating multiple keywords matched.	String Array

UserInfo content of the Container node:

Node Name (Keyword)	Description	Type	Required or Not
TokenId	It usually indicates account information, limited to 128 bytes in length.	String	No
Nickname	It usually indicates nickname information, limited to 128 bytes in	String	No

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	length.		
DeviceId	It usually indicates device information, limited to 128 bytes in length.	String	No
AppId	It usually indicates a unique identifier for the App, limited to 128 bytes in length.	String	No
Room	It usually indicates room number information, limited to 128 bytes in length.	String	No
IP	It usually indicates IP address information, limited to 128 bytes in length.	String	No
Type	It usually indicates the business type, limited to 128 bytes in length.	String	No
ReceiveTokenId	It usually indicates the user account for receiving messages, limited to 128 bytes in length.	String	No
Gender	It usually indicates gender data, limited to 128 bytes in length.	String	No
Level	It usually indicates level information, limited to 128 bytes in length.	String	No
Role	It usually indicates role details, limited to 128 bytes in length.	String	No

ListInfo content of the Container node:

Node Name (Keyword)	Parent Node	Description	Type
ListResults	Response.JobsDetail.ListInfo	All matched business field risk library results.	Container Array

ListResults content of the Container node:

Node Name (Keyword)	Parent Node	Description	Type
ListType	Response.JobsDetail.ListInfo.ListResults	Type of matched business field risk library. Valid values include 0 (white library) and 1(black library).	Integer
ListName	Response.JobsDetail.ListInfo.ListResults	Name of the matched business field risk library.	String

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Entity	Response.JobsDetail.ListInfo.ListResults	Matched entry in the business field risk library.	String

Error Code

There is no specific error information for this request operation. For common error information, see Error Codes.

Actual Case

Request

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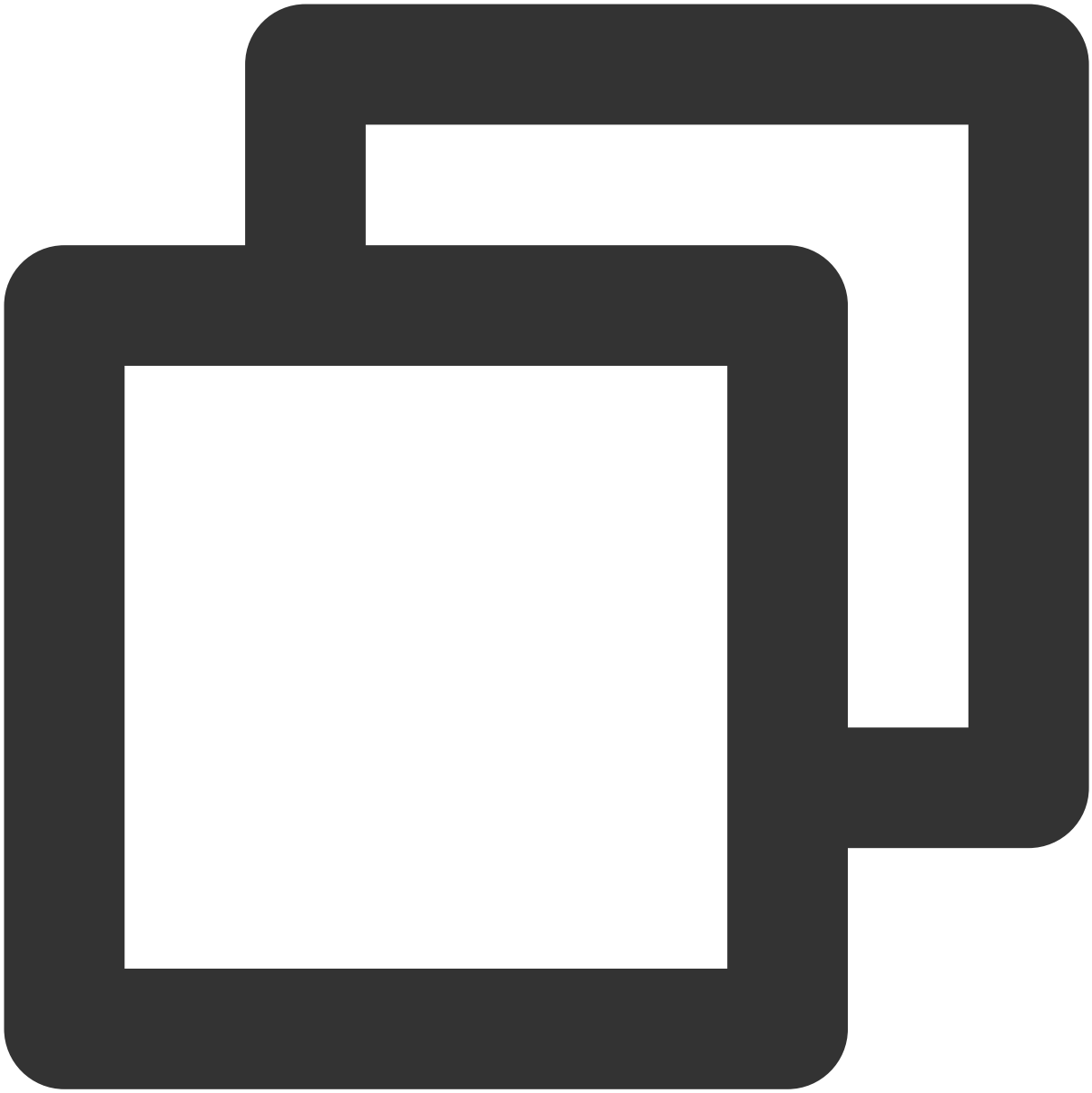

```
POST /text/auditing HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml
<Request>
  <Input>
    <Content>54uZ5Ye75omL</Content>
  </Input>
  <Conf>
    <BizType>b81d45f94b91a683255e9a9506f45a11</BizType>
```

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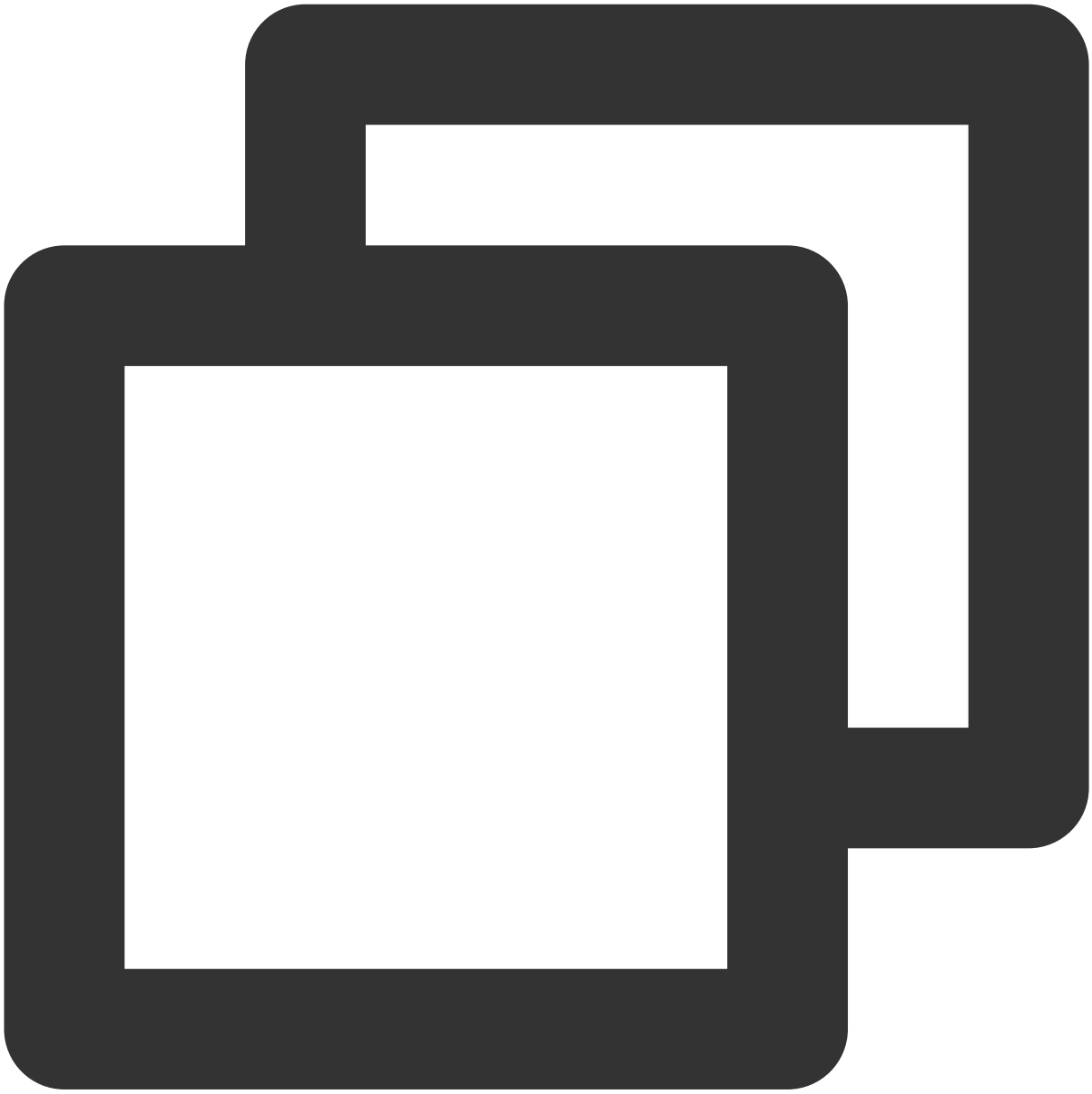
```
  </Conf>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
```

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```
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****
<Response>
  <JobsDetail>
    <JobId>vab1ca9fc8a3ed11ea834c525400863904</JobId>
    <Content>54uZ5Ye75omL</Content>
    <State>Success</State>
    <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    <SectionCount>1</SectionCount>
    <Label>Illegal</Label>
    <Result>2</Result>
    <PornInfo>
      <HitFlag>0</HitFlag>
      <Count>0</Count>
    </PornInfo>
    <Section>
      <StartByte>0</StartByte>
      <Label>Illegal</Label>
      <Result>2</Result>
      <PornInfo>
        <HitFlag>0</HitFlag>
        <Score>0</Score>
        <Keywords/>
      </PornInfo>
    </Section>
  </JobsDetail>
  <RequestId>xxxxxxxxxxxxxx</RequestId>
</Response>
```

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File Moderation
Submitting File Moderation Job

Last updated：2024-06-12 16:01:53

Feature Description

This API is used to submit a file moderation job. The file moderation feature is async. You can submit a job to moderate your files, and then use the file moderation job querying API or file moderation callback API to query the moderation results.

Note:

Moderate files stored in COS.

Moderate files at URLs of a third-party cloud storage vendor.

Currently supported input file types include:

Presentation files: PPTX, PPT, POT, POTX, PPS, PPSX, DPS, DPT, PPTM, POTM, PPSM.

Text files: DOC, DOT, WPS, WPT, DOCX, DOTX, DOCM, DOTM.

Spreadsheet files: XLS, XLT, ET, ETT, XLSX, XLTX, CSV, XLSB, XLSM, XLTM, ETS.

Other files: PDF.

A spreadsheet file may be split into multiple pages, with multiple images generated.

The input file size cannot exceed 200 MB.

The number of pages in the input file cannot exceed 5,000.

Customize moderation policies based on different business scenarios.

Request

Sample request

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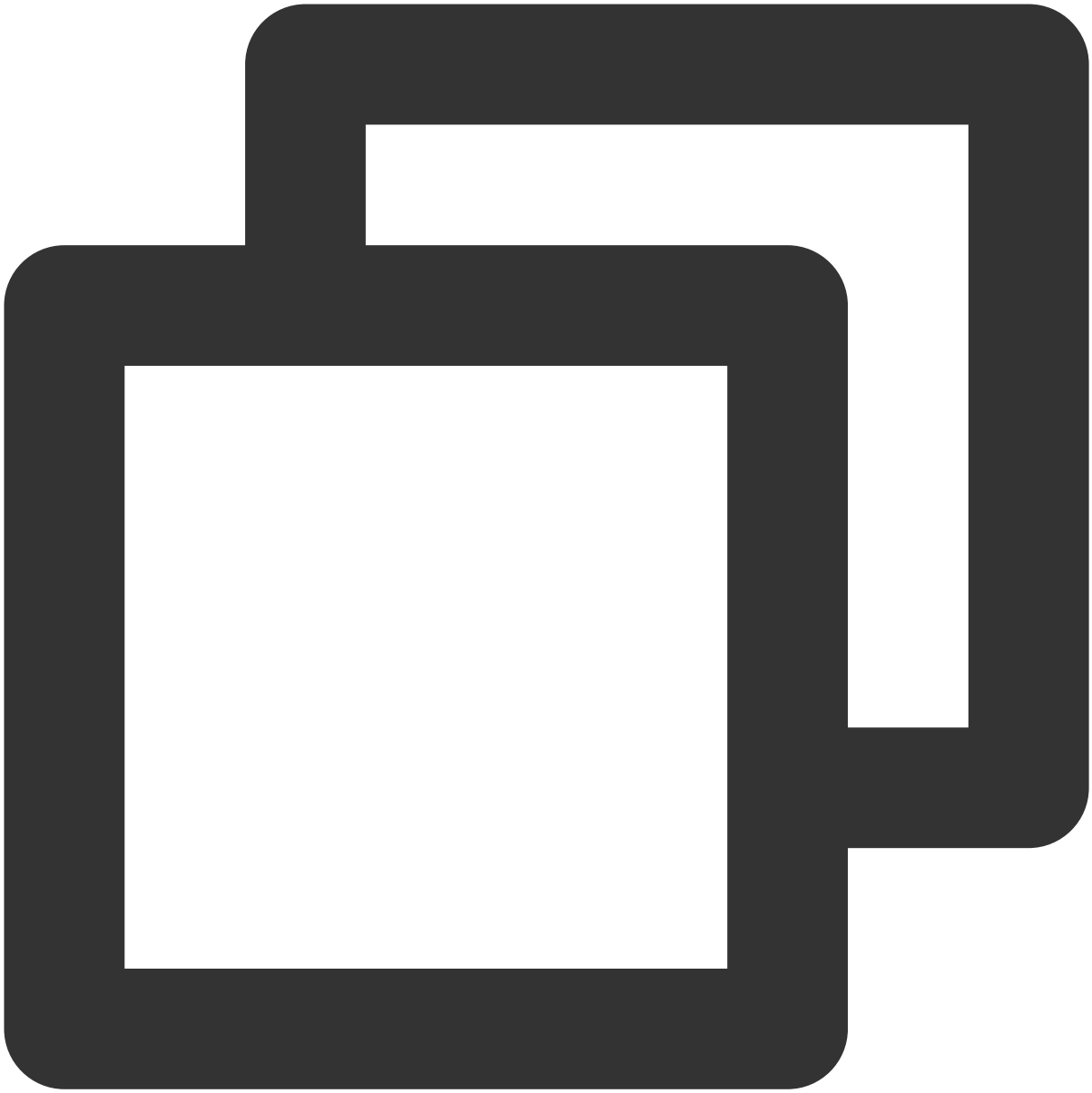

```
POST /document/auditing HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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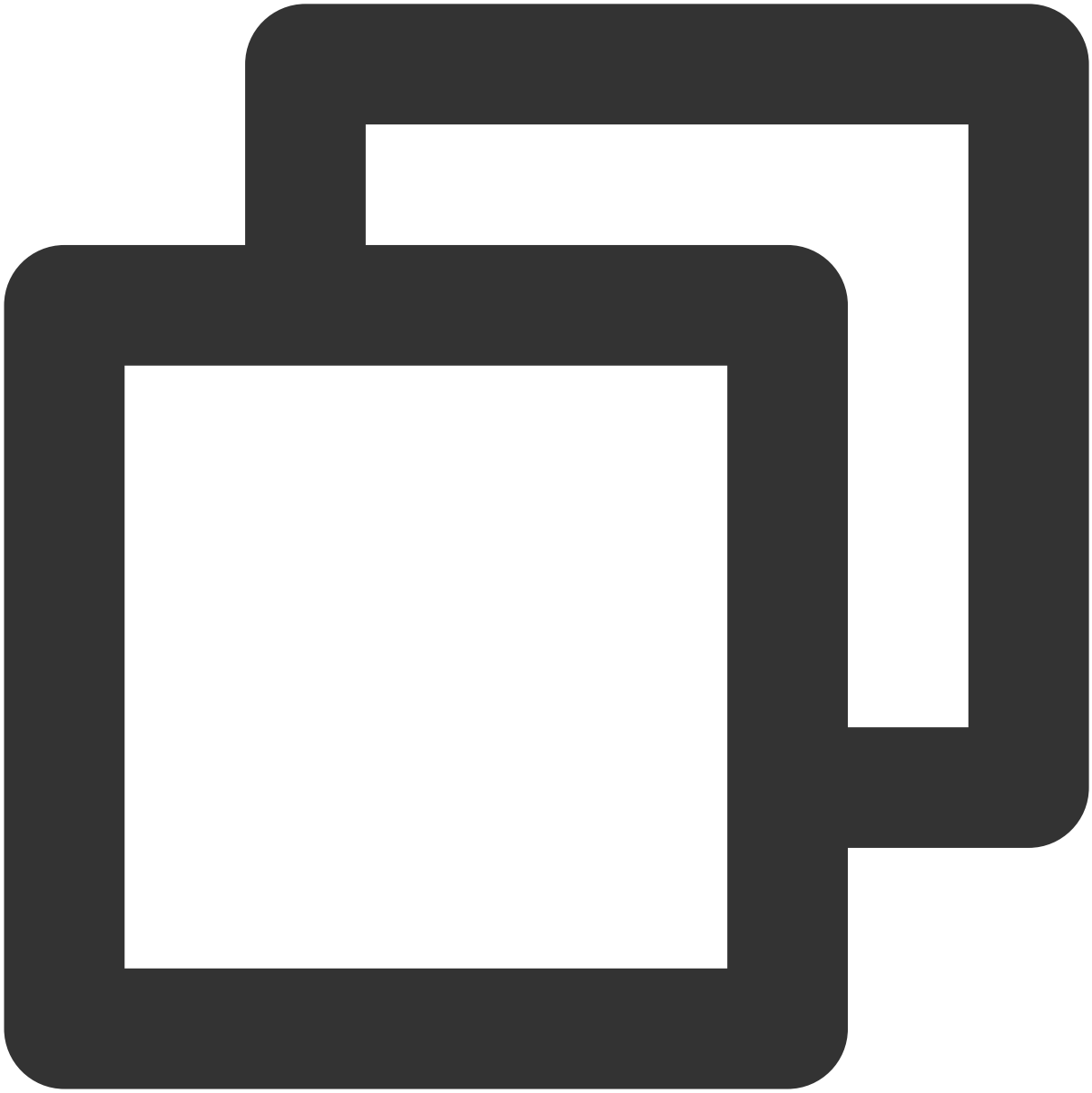
Authorization: Auth String (for more information, see Request Signature).

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
      <Input>
```

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```
            <Url></Url>
            <Type></Type>
            <DataId></DataId>
        </Input>
        <Conf>
            <DetectType></DetectType>
            <Callback></Callback>
            <BizType></BizType>
        </Conf>
</Request>
```

The nodes are described as follows:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	File moderation configuration.	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Input	Request	Content to be moderated.	Container	Yes
Conf	Request	Moderation rule configuration.	Container	Yes

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Name of the file stored in the COS bucket; for example, if the file is `test.doc` in the `test` directory, then the filename is `test/test.doc`. Either `Object` or `Url` can be selected at a time.	String	No
Url	Request.Input	Full URL of the file, such as `http://www.example.com/doctest.doc`. Either `Object` or `Url` can be selected at a time.	String	No
Type	Request.Input	File type. If this parameter is not specified, the file extension will be used as the type by default, such as DOC, DOCX, PPT, and PPTX. If the file has no extension, this field must be specified; otherwise, moderation will fail.	String	No

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DataId	Request.Input	This field will return the original content in the moderation result, which can contain up to 512 bytes. You can use this field to uniquely identify the data to be moderated in your business.	String	No
UserInfo	Request.Input	Business field.	Container	No

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TokenId	Request.Input.UserInfo	Business `TokenId`, which can contain up to 128 bytes.	String	No
Nickname	Request.Input.UserInfo	Business `Nickname`, which can contain up to 128 bytes.	String	No
DeviceId	Request.Input.UserInfo	Business `DeviceId`, which can contain up to 128 bytes.	String	No
AppId	Request.Input.UserInfo	Business `AppId`, which can contain up to 128 bytes.	String	No
Room	Request.Input.UserInfo	Business `Room`, which can contain up to 128 bytes.	String	No
IP	Request.Input.UserInfo	Business `IP`, which can contain up to 128 bytes.	String	No
Type	Request.Input.UserInfo	Business `Type`, which can contain up to 128 bytes.	String	No

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
BizType	Request.Conf	Unique identifier of the moderation policy. You can configure the scenes you want to moderate on the moderation policy page in the console, such as pornographic, adverting, and illegal information. For configuration guidelines, see Setting Public Moderation Policy. You can get `BizType` in the	String	No

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		console. If `BizType` is specified, the moderation request will perform moderation according to the scenes configured in the moderation policy. If `BizType` is not specified, the default moderation policy will be used automatically.		
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). This parameter will no longer be maintained in the future. You can pass in multiple types and separate them by commas, such as `Porn,Ads` . If you need to moderate more scenes, use the `BizType` parameter.	String	No
Callback	Request.Conf	The moderation result can be sent to your callback address in the form of a callback. Addresses starting with `http://` or `https://` are supported, such as `http://www.callback.com` .	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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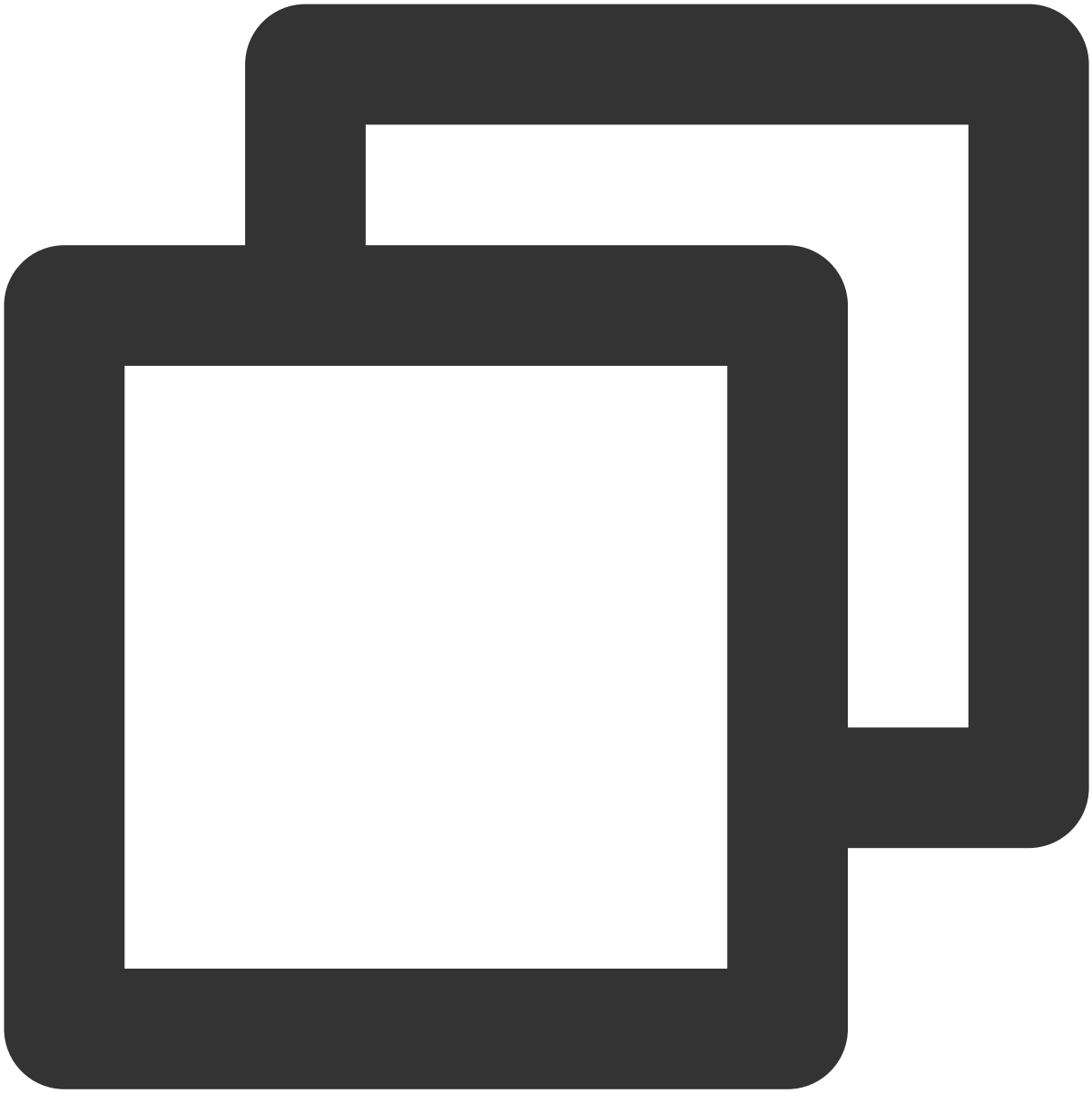

```
<Request>
    <JobsDetail>
       <DataId></DataId>
       <JobId></JobId>
       <State></State>
       <CreationTime></CreationTime>
    </JobsDetail>
    <RequestId></RequestId>
</Request>
```

The nodes are as described below:

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Node Name (Keyword)	Parent Node	Description	Type
Response	None	Specific response content for the submitted file moderation job.	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Details of the file moderation job.	Container
RequestId	Response	The ID automatically generated by the server for a request when the request is sent, which can help locate problems faster.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
DataId	Response.JobsDetail	Unique business ID added in the request.	String
JobId	Response.JobsDetail	ID of the file moderation job.	String
State	Response.JobsDetail	Status of the file moderation job. Valid values: Submitted, Success, Failed, Auditing.	String
CreationTime	Response.JobsDetail	Creation time of the file moderation job.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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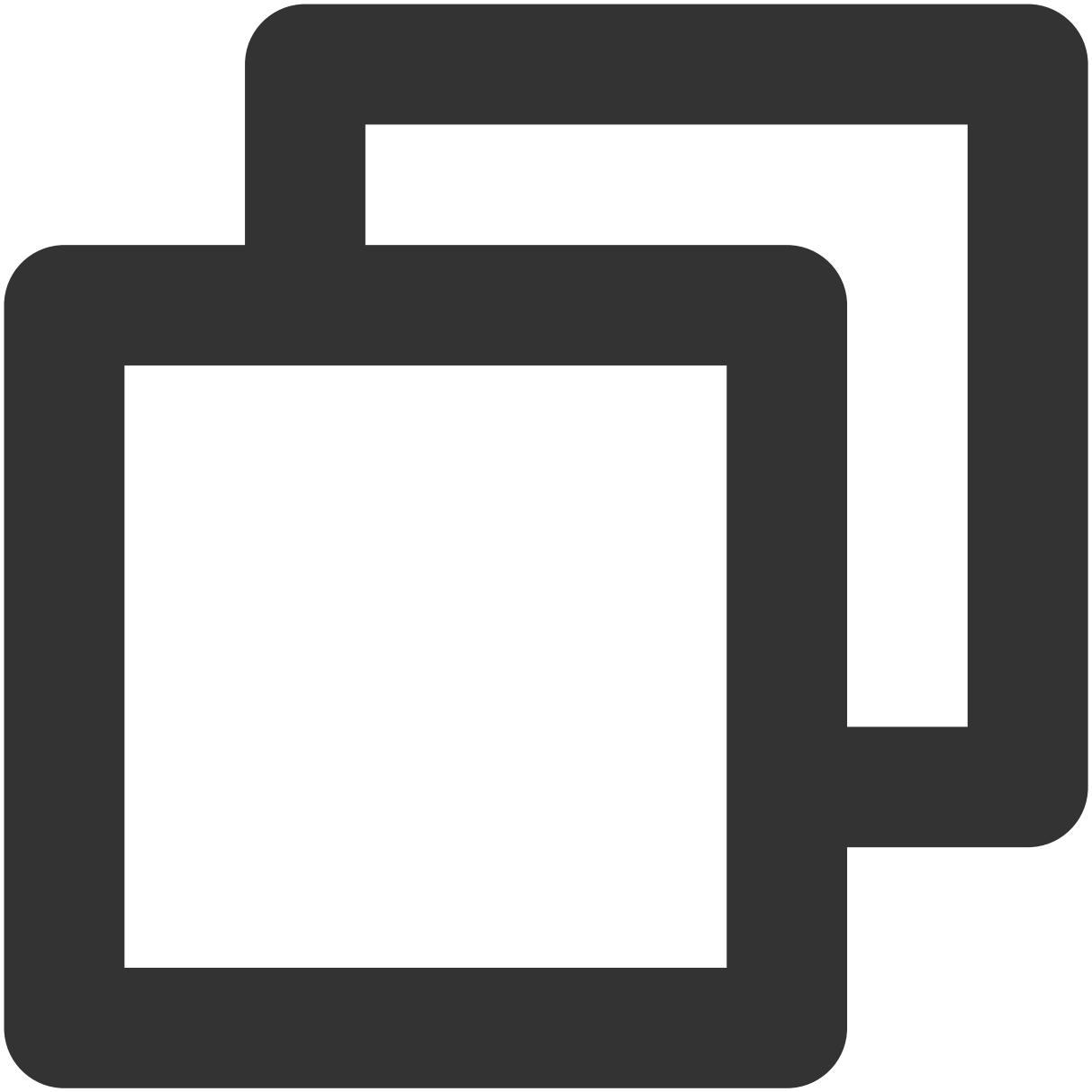

```
POST /document/auditing HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml
<Request>
      <Input>
         <Url>http://www.example.com/doctest.doc</Url>
         <DataId>123-fdrsg-123</DataID>
      </Input>
      <Conf>
```

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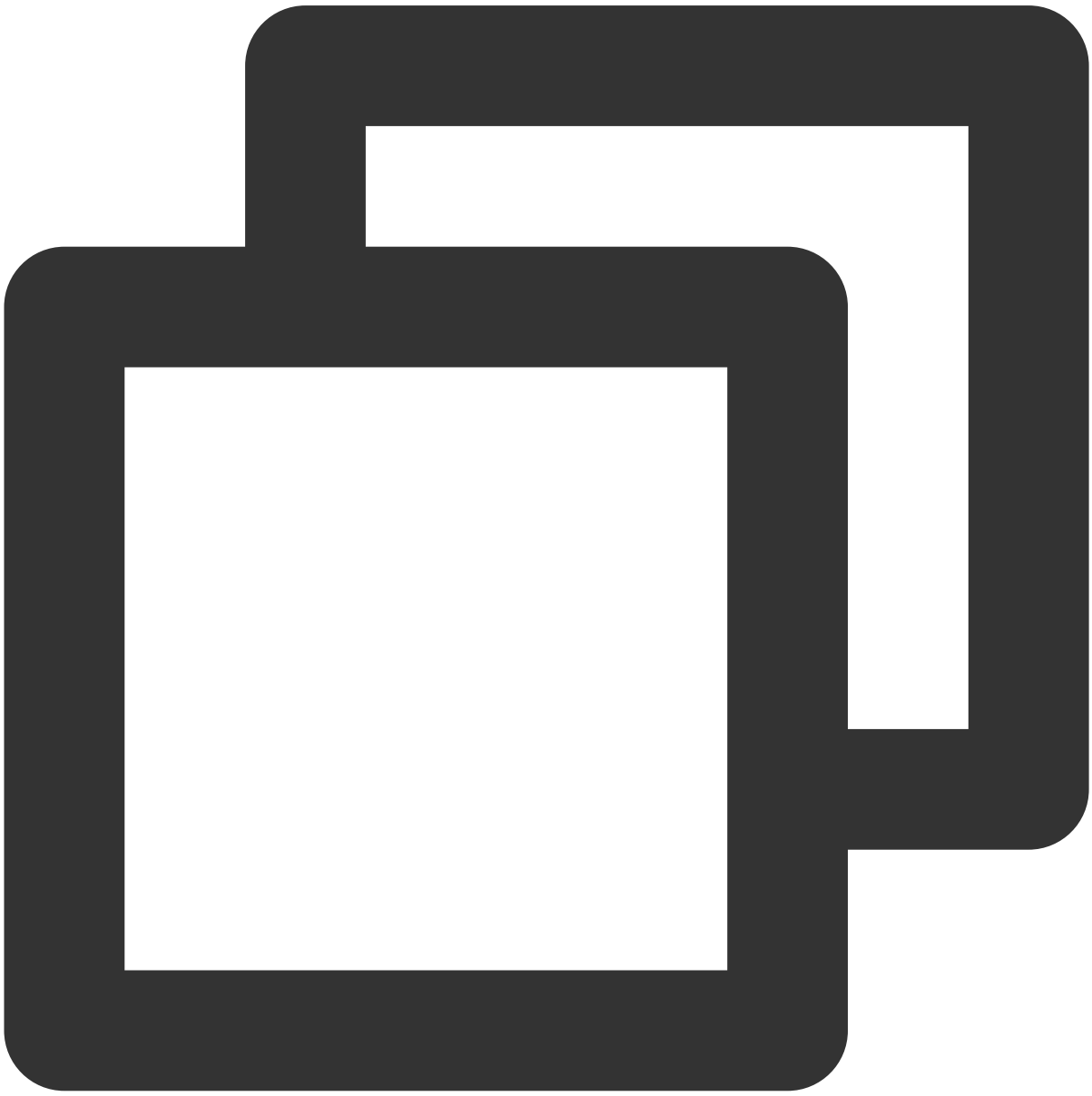
```
        <DetectType>Porn,Ads</DetectType>
        <Callback></Callback>
        <BizType>b81d45f94b91a683255e9a9506f4****</BizType>
    </Conf>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
```

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```
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
    <JobsDetail>
        <DataId>123-fdrsg-123</DataID>
        <JobId>vab1ca9fc8a3ed11ea834c52540086****</JobId>
        <State>Submitted</State>
        <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
    </JobsDetail>
    <RequestId>xxxxxxxxxxxxxx</RequestId>
</Response>
```

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Querying File Moderation Job Result

Last updated：2024-06-12 16:01:53

Feature Overview

This API is used to query the result of the specified document moderation job.

Note:

Document moderation results are retained for one month, so you can query moderation results in the past month through this API.

SDK Recommendation

COS SDK provides complete capabilities of demo, automatic integration, and signature calculation. You can easily and quickly call APIs through the SDK. For more information, see SDK Overview.

Request

Sample request

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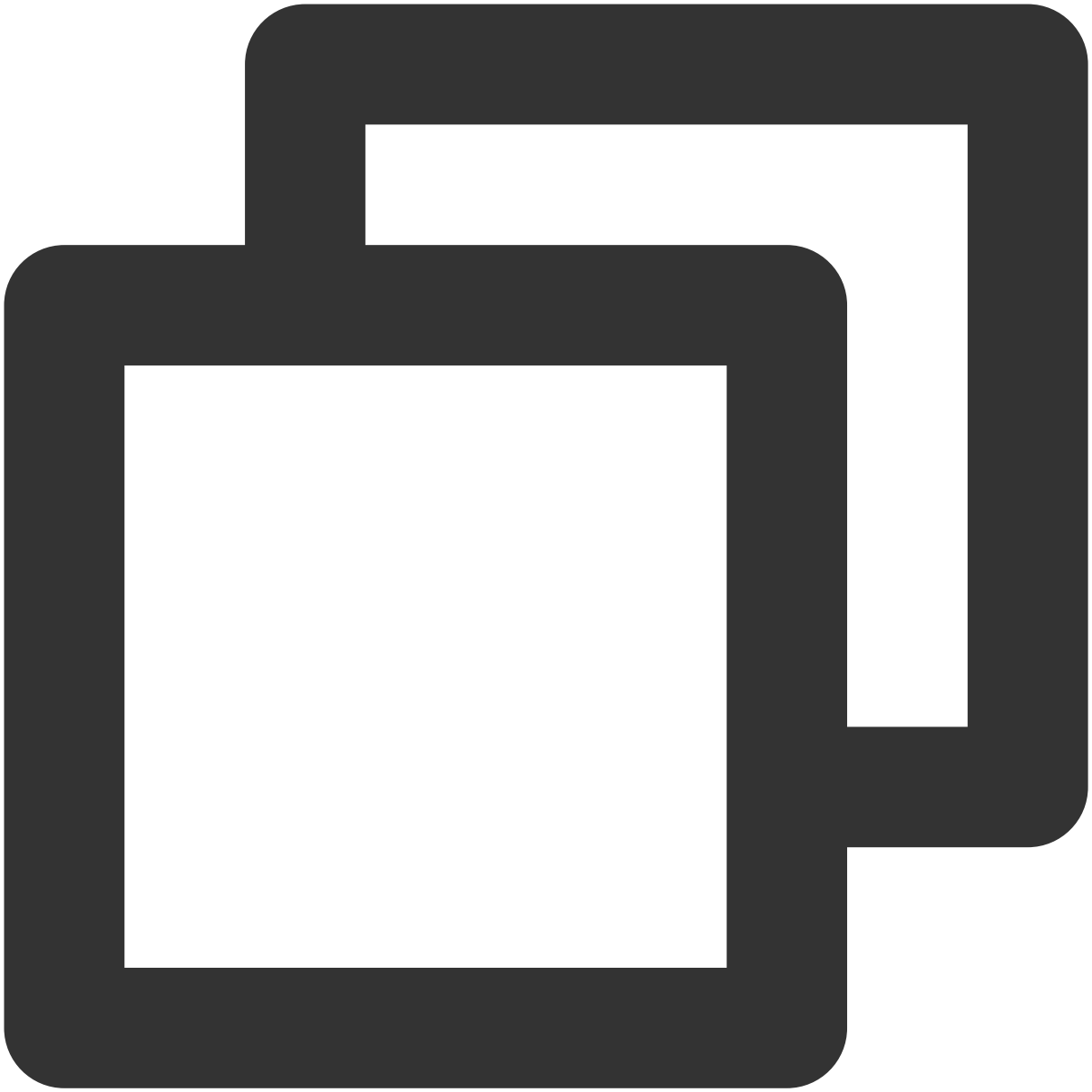

```
GET /document/auditing/<jobId> HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
```

Note:

Authorization: Auth String (see Request Signature for more information)

When this feature is used by a sub-account, relevant permissions must be granted as instructed in Authorization Granularity Details.

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Request headers

This API only uses Common Request Headers.

Request body

This request does not have a request body.

Response

Response headers

This API only returns Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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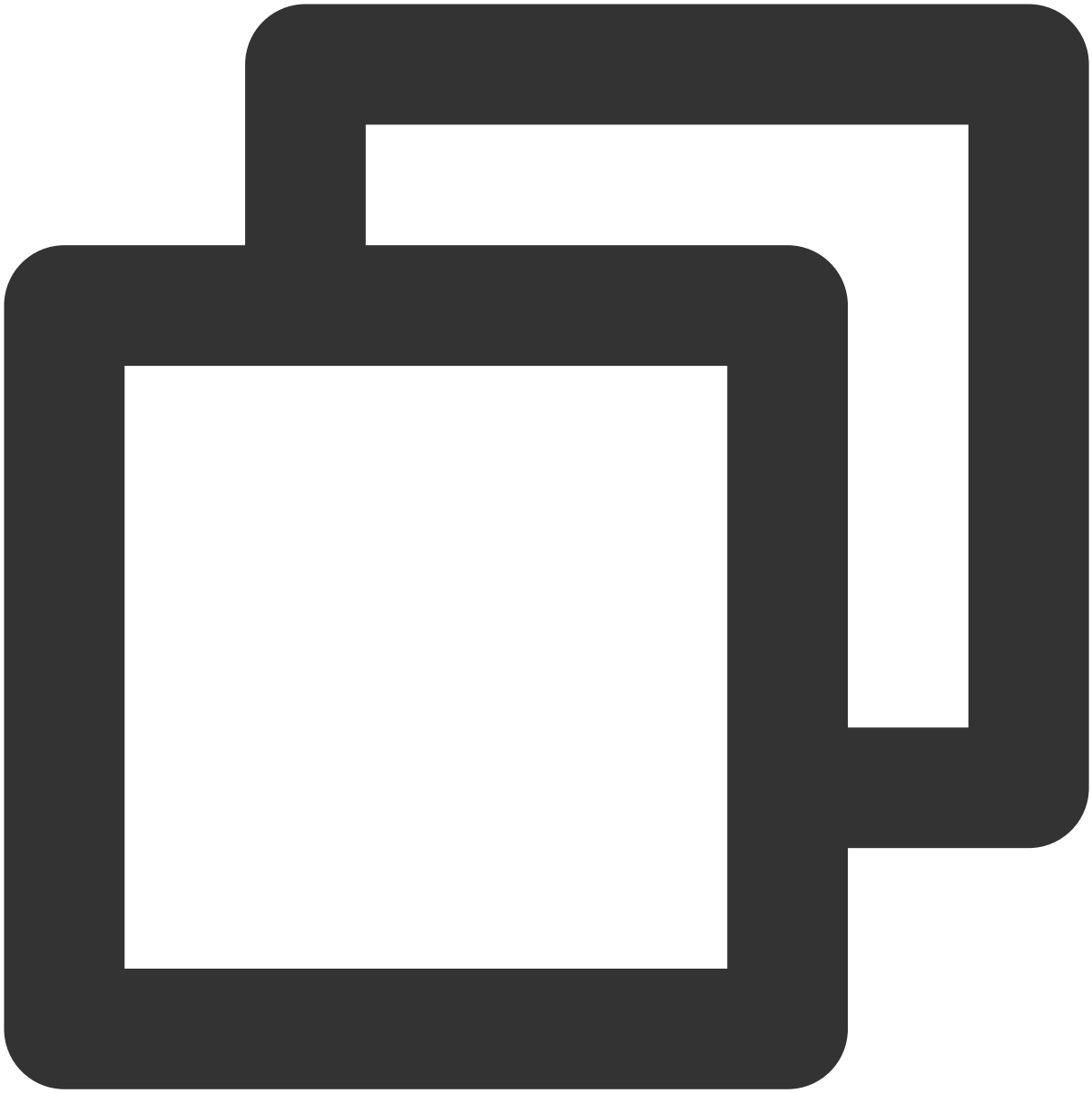

```
<Response>
    <JobsDetail>
      <JobId>aab1ca9fc8a3ed11ea834c525400863904</JobId>
      <State>Success</State>
      <Code>Success</Code>
      <Message>Success</Message>
      <DataId></DataId>
      <Suggestion>1</Suggestion>
      <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
      <Url>http://www.test.com/123</Url>
      <PageCount>3</PageCount>
```

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```
      <Labels>
        <PornInfo>
          <HitFlag>1</HitFlag>
          <Score>96</Score>
        </PornInfo>
      </Labels>
      <PageSegment>
        <Results>
          <Url></Url>
          <Text></Text>
          <PageNumber>1</PageNumber>
          <SheetNumber>1</SheetNumber>
          <PornInfo>
            <HitFlag></HitFlag>
            <SubLabel></SubLabel>
            <Score></Score>
            <OcrResults>
              <Text></Text>
              <Keywords></Keywords>
            </OcrResults>
          </PornInfo>
        </Results>
      </PageSegment>
    </JobsDetail>
    <RequestId></RequestId>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type
Response	None	Full information of document moderation.	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Details of the document moderation job.	Container
RequestId	Response	ID automatically generated by the server for a request when the request is sent, which can be used to facilitate fault locating.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type

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Code	Response.JobsDetail	Error code, which will be returned only if `State` is `Failed`. For more information, see Error Codes.	String
Message	Response.JobsDetail	Error message, which will be returned only if `State` is `Failed`.	String
DataId	Response.JobsDetail	This field will return the original content in the moderation result, which can contain up to 512 bytes. You can use this field to uniquely identify the data to be moderated in your business.	String
JobId	Response.JobsDetail	ID of the document moderation job.	String
State	Response.JobsDetail	Job status. Valid values: Submitted, Success, Failed, Auditing.	String
Suggestion	Response.JobsDetail	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).	Integer
Label	Response.JobsDetail	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, `Ads`, and other types of unsafe or inappropriate content.	String
CreationTime	Response.JobsDetail	Job creation time	String
Object	Response.JobsDetail	If the moderated file is a file stored in COS, this field indicates its filename.	String
Url	Response.JobsDetail	The URL of the file to be moderated, which will be returned if `Url` is selected during job creation.	String
PageCount	Response.JobsDetail	Document moderation converts a document to images for moderation. This field indicates the total number of generated images.	Integer
Labels	Response.JobsDetail	This field is used to return the hit moderation scenes and corresponding results.	Container

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PageSegment	Response.JobsDetail	Specific moderation result of each image after the document is converted to images.	Container
UserInfo	Response.JobsDetail	Business field. This field will not exist if `UserInfo` is not set during job creation.	Container
ListInfo	Response.JobsDetail	Blocklist/Allowlist status of the account.	Container
ForbidState	Response.JobsDetail	If you set automatic freezing, this field indicates the status of the document. `0` : not frozen; `1` : frozen, `2` : file moved.	Integer

`Labels` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
PornInfo	Response.JobsDetail.Labels	The moderation result of the **pornographic information** moderation scene.	Container
AdsInfo	Response.JobsDetail.Labels	The moderation result of the **advertising information** moderation scene.	Container

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.Labels.*Info	The moderation result returned for the moderation scene. Return values: 0: Normal. 1: Confirmed as a violation of the current scene. 2: Suspected as a violation of the current scene.	Integer
Score	Response.JobsDetail.Labels.*Info	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer

`PageSegment` has the following sub-nodes:

Node Name	Parent Node	Description	Type

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(Keyword)			
Results	Response.JobsDetail.PageSegment	Detailed moderation result of each image after the document is converted to images.	Container Array

`Results` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Url	Response.JobsDetail.PageSegment.Results	After the document is converted to images, you can view the image content at this URL. It must be a standard URL. Note: Each URL is valid for two hours. If you need to view the data after two hours, initiate a new query request.	String
Text	Response.JobsDetail.PageSegment.Results	This field is used to return the OCR text recognition result of the current image. It will be returned only if text content detection is enabled in the moderation policy.	String
PageNumber	Response.JobsDetail.PageSegment.Results	Number of images, which is usually the number of pages in the document.	Integer
SheetNumber	Response.JobsDetail.PageSegment.Results	If the moderated file is a spreadsheet, this field indicates the number of sheets.	Integer
Label	Response.JobsDetail.PageSegment.Results	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs.	String

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		Return values: `Normal`, `Porn`, `Ads`, and other types of unsafe or inappropriate content.	
Suggestion	Response.JobsDetail.PageSegment.Results	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	Response.JobsDetail.PageSegment.Results	The moderation result of the **pornographic information** moderation scene.	Container
AdsInfo	Response.JobsDetail.PageSegment.Results	The moderation result of the **advertising information** moderation scene.	Container

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
HitFlag	Response.JobsDetail.PageSegment.Results.*Info	The moderation result returned for the moderation scene. Return values: 0: Normal. 1: Confirmed as a violation of the current scene. 2: Suspected as a violation of the current scene.	Integer
Category	Response.JobsDetail.PageSegment.Results.*Info	This field is a subset of `Label`, indicating the specific moderation category hit; for example, `Sexy` represents the sexy	String

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		category in the `Porn` label.	
SubLabel	Response.JobsDetail.PageSegment.Results.*Info	This field indicates the specific sub-label hit by the moderation job; for example, `SexBehavior` is a sub-label under the `Porn` label. Note: This field may return null, indicating that no specific sub-labels are hit.	String
Score	Response.JobsDetail.PageSegment.Results.*Info	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer
OcrResults	Response.JobsDetail.PageSegment.Results.*Info	This field represents the detailed OCR result, including the text coordinate information and text recognition result. It will be returned if there is non-compliant content.	Container Array

`OcrResults` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Text	Response.JobsDetail.PageSegment.Results.*Info.OcrResults	The specific text content recognized by OCR in the image.	String
Keywords	Response.JobsDetail.PageSegment.Results.*Info.OcrResults	Keywords hit by	String

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		the current moderation scene.	Array
Location	Response.JobsDetail.PageSegment.Results.*Info.OcrResults	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the OCR detection frame in the image for quick location of the recognized text.	Container

`ObjectResults` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Name	Response.JobsDetail.PageSegment.Results.*Info.ObjectResults	This field is used to return the name of the recognized object, such as person name.	String
Location	Response.JobsDetail.PageSegment.Results.*Info.ObjectResults	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the recognition result in the	Container

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		image for you to quickly locate information.	

`Location` has the following sub-nodes:

Node Name (Keyword)	Description	Type
X	This parameter is used to return the pixel position of the **abscissa (X) of the top-left corner** of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Y	This parameter is used to return the pixel position of the **ordinate of the top-left corner** (Y) of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Height	This parameter is used to return the **height of the detection frame** (the length starting from the top-left corner and extending down the Y axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Width	This parameter is used to return the **width of the detection frame** (the length starting from the top-left corner and extending to the right on the X axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Rotate	This parameter is used to return the **rotation angle of the detection frame**. Valid values: **0–360** (**degrees**), and the direction is **counterclockwise rotation**. This parameter can be combined with the `X` and `Y` coordinate parameters to uniquely determine the specific position of the detection frame.	Float

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required
TokenId	Account information, which can contain up to 128 bytes.	String	No
Nickname	Nickname information, which can contain up to 128 bytes.	String	No
DeviceId	Device information, which can contain up to 128 bytes.	String	No
AppId	Unique app ID, which can contain up to 128 bytes.	String	No
Room	Room ID information, which can contain up to 128 bytes.	String	No

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IP	IP address information, which can contain up to 128 bytes.	String	No
Type	Business type, which can contain up to 128 bytes.	String	No
ReceiveTokenId	User account to receive messages, which can contain up to 128 bytes.	String	No
Gender	Gender information, which can contain up to 128 bytes.	String	No
Level	Level information, which can contain up to 128 bytes.	String	No
Role	Role information, which can contain up to 128 bytes.	String	No

Error codes

This API returns uniform error responses and error codes. For more information, see Error Codes.

Use Cases

Request

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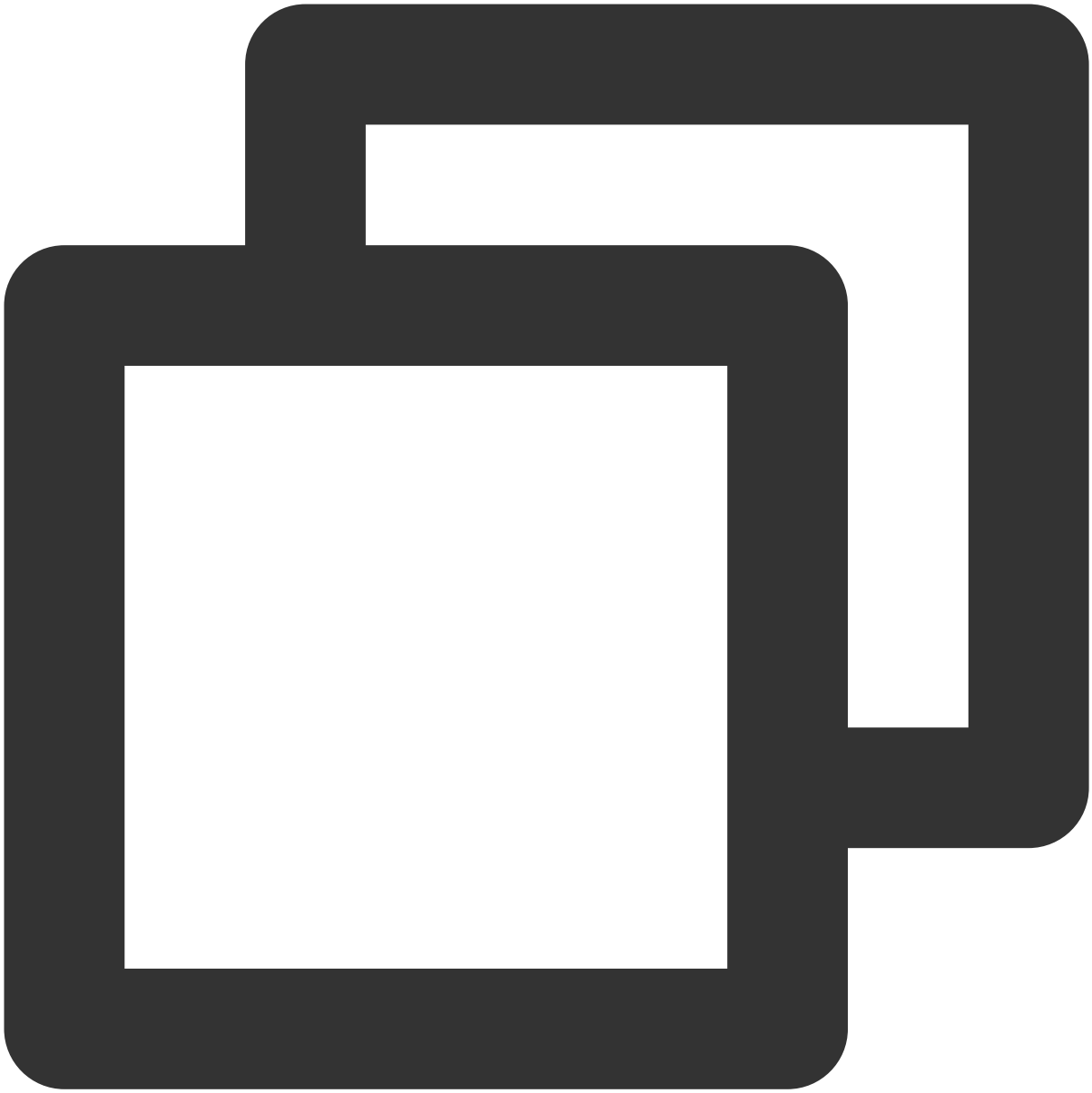

```
GET /document/auditing/stb1ca9fc8a34c525400863904**** HTTP/1.1
Accept: */*
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
```

Response

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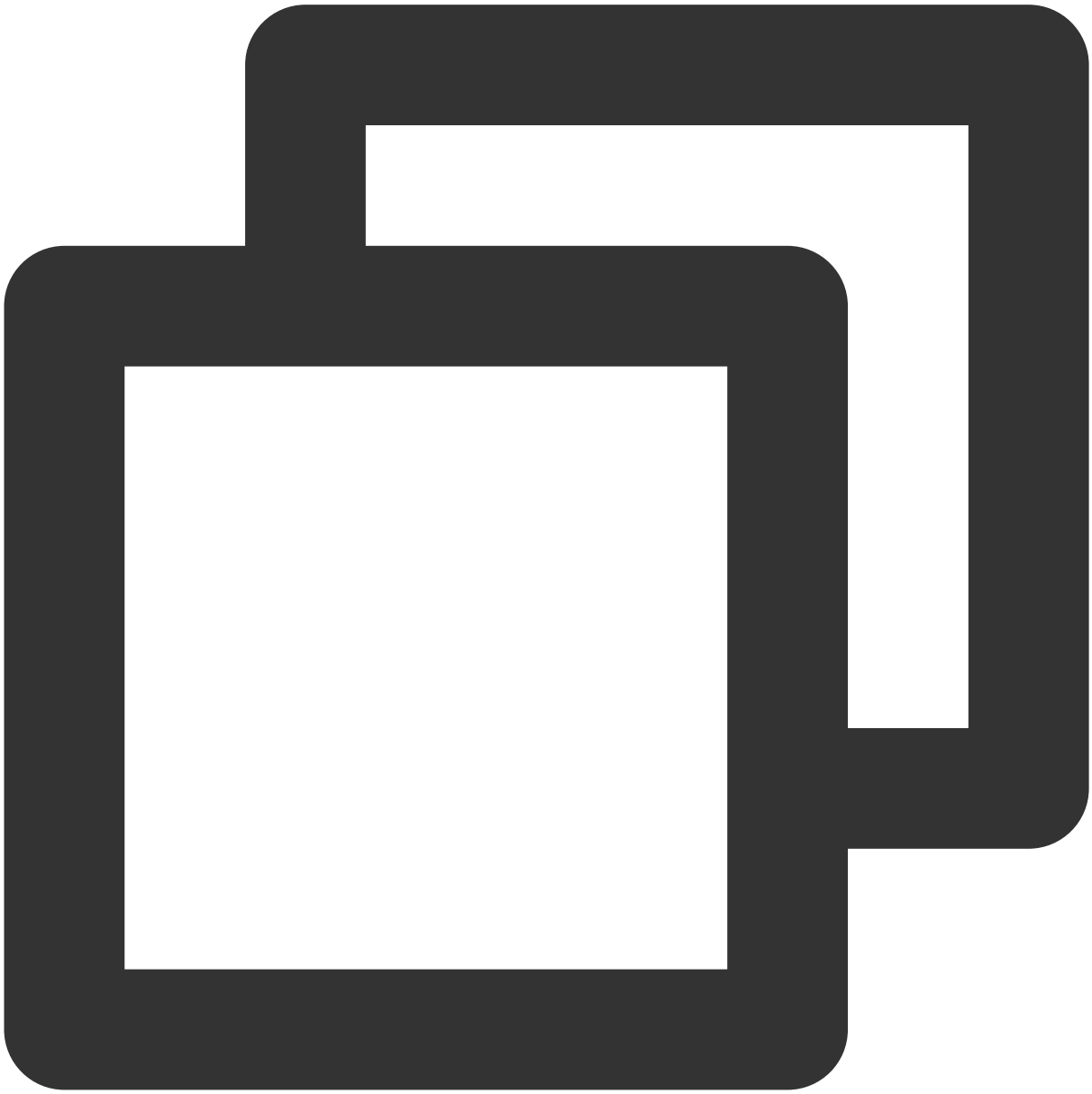

```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 666
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****
<Response>
    <JobsDetail>
      <JobId>stb1ca9fc8a34c525400863904****</JobId>
      <State>Success</State>
```

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```
      <Suggestion>1</Suggestion>
      <CreationTime>2019-07-07T12:12:12+0800</CreationTime>
      <Url>http://www.test.com/123.doc</Url>
      <PageCount>3</PageCount>
      <Labels>
        <PornInfo>
          <HitFlag>1</HitFlag>
          <Score>96</Score>
        </PornInfo>
      </Labels>
      <PageSegment>
        <Results>
          <Url>https://examplebucket-1250000000.cos.ap-nanjing.myqcloud.com/audit-1
          <Text>Haha, hello</Text>
          <PageNumber>1</PageNumber>
          <PornInfo>
            <HitFlag>0</HitFlag>
            <SubLabel>sex</SubLabel>
            <Score>0</Score>
            <OcrResults>
              <Text>Haha, hello</Text>
              <Keywords>Hello</Keywords>
            </OcrResults>
          </PornInfo>
        </Results>
        <Results>
          <Url>https://examplebucket-1250000000.cos.ap-nanjing.myqcloud.com/audit-2
          <Text>Haha, hello</Text>
          <PageNumber>1</PageNumber>
          <PornInfo>
            <HitFlag>0</HitFlag>
            <SubLabel>sex</SubLabel>
            <Score>0</Score>
            <OcrResults>
              <Text>Haha, hello</Text>
              <Keywords>Hello</Keywords>
            </OcrResults>
          </PornInfo>
        </Results>
      </PageSegment>
    </JobsDetail>
    <RequestId>xxxxxxxxxxxxxx</RequestId>
</Response>
```

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File Moderation Callback Content

Last updated：2024-06-12 16:01:53

Feature Overview

If you have configured a moderation callback address, after document moderation is completed, the backend will call back the moderation result in JSON format to the callback address. You can perform subsequent processing operations based on the callback content.

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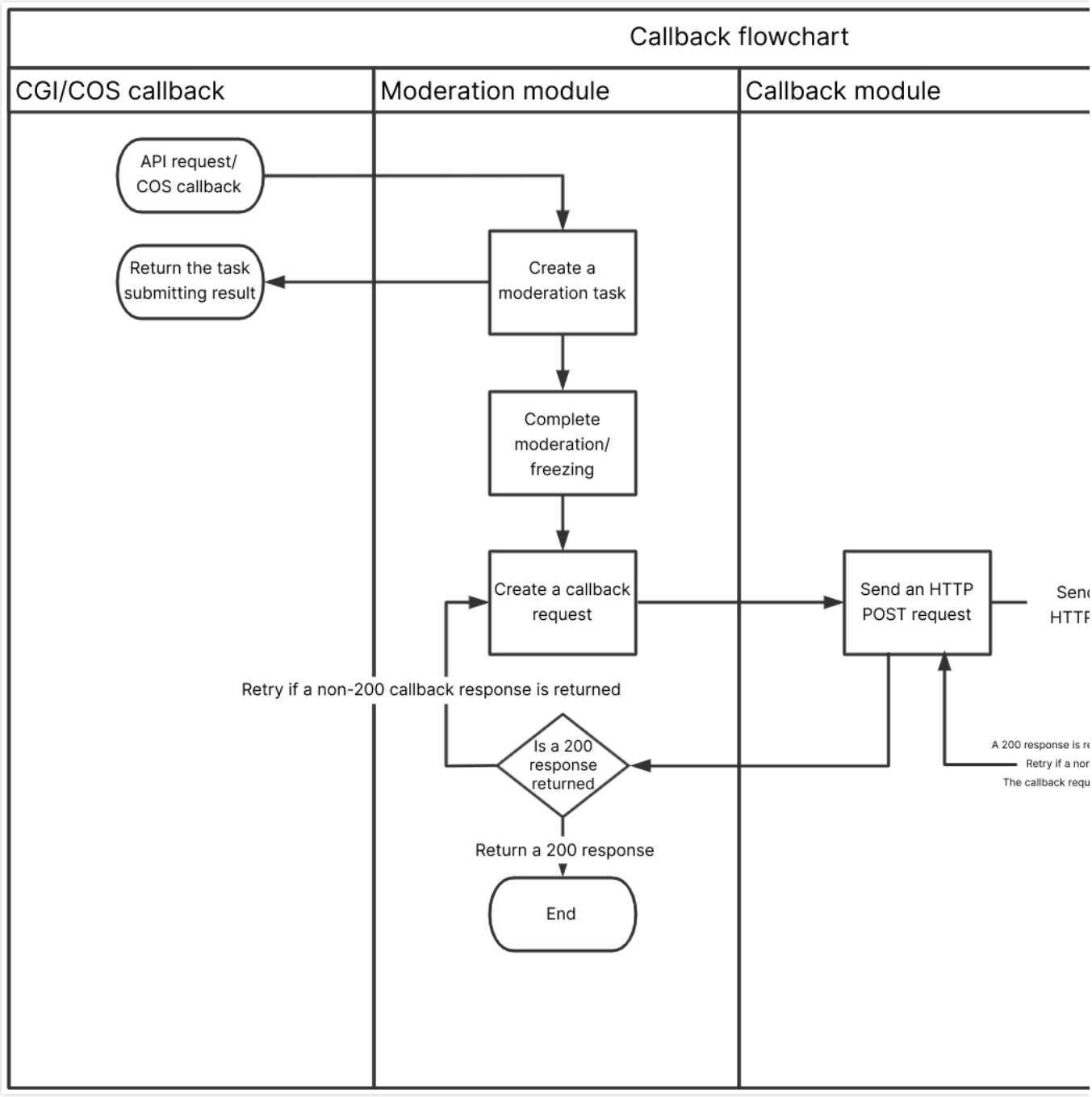

Callback Content Description

The response body returns **application/json** data. The following contains all the nodes:

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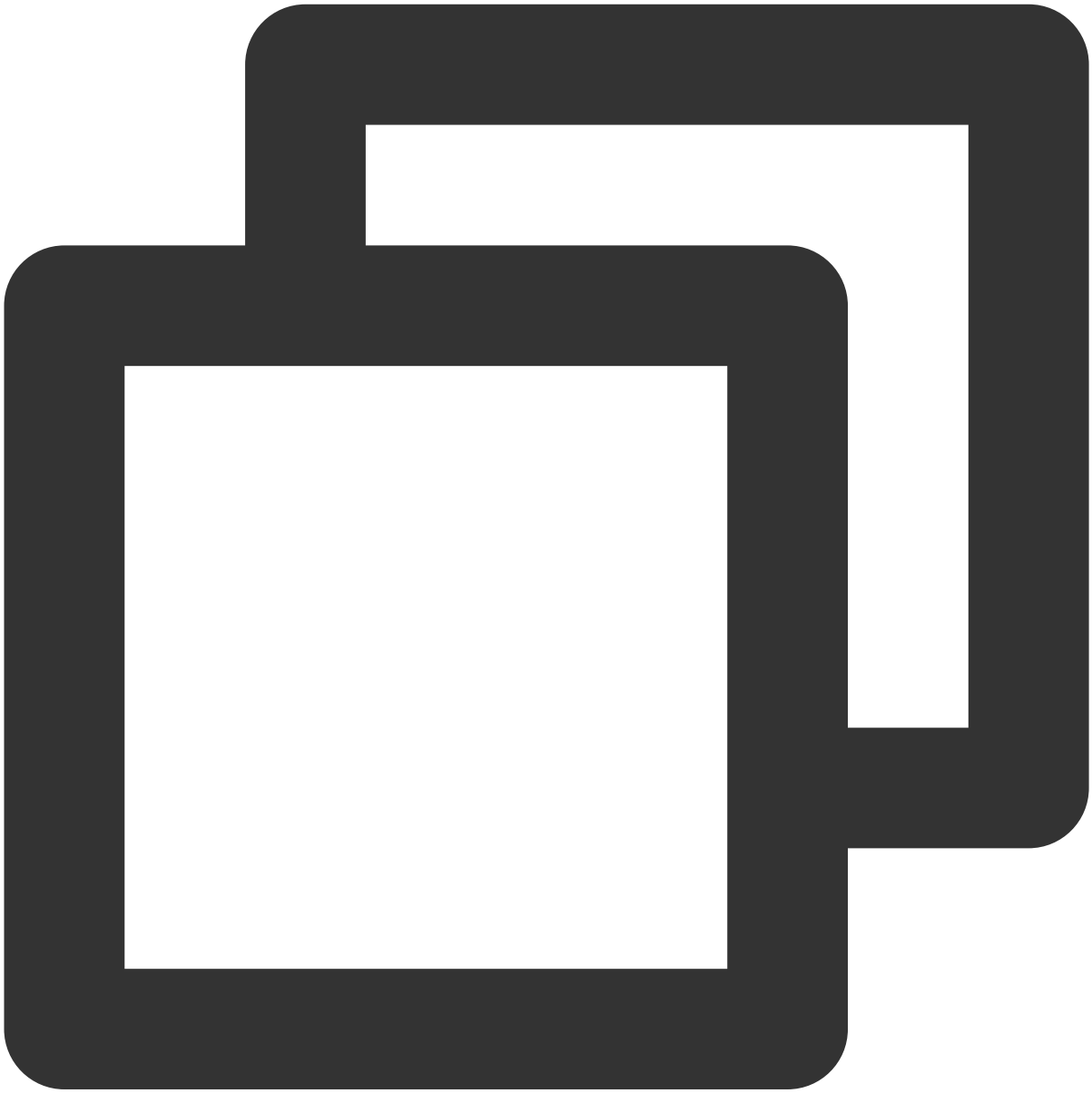

```
{
  "EventName": "ReviewDocument",
  "JobsDetail": {
    "JobId": "6666666666666666666666666666666666",
    "State": "Success",
    "CreationTime": "",
    "Url": "",
    "Label": "Normal",
    "Suggestion": 0,
    "PageCount": 1,
    "Labels": {
```

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```
      "PornInfo": {
        "HitFlag": 0,
        "Score": 0
      },
      "AdsInfo": {
        "HitFlag": 0,
        "Score": 0
      }
    },
    "PageSegment": {
      "Results": [
      {
        "Url": "",
        "Text": "",
        "PageNumber": 0,
        "SheetNumber": 0,
        "Label": "Normal",
        "Suggestion": 0,
        "PornInfo": {
          "HitFlag": 0,
          "Score": 0,
          "SubLabel": "",
          "OcrResults": [{
            "Text": "",
            "Keywords":["",""],
            "Location": {
              "X": 0,
              "Y": 0,
              "Width": 0,
              "Height": 0,
              "Rotate": 0
            }
          }]
        },
        "AdsInfo": {
          "HitFlag": 0,
          "Score": 0,
          "SubLabel": ""
        }
      }
      ]
    },
    "BucketId": "examplebucket-1250000000",
    "Region": "ap-chongqing",
    "ForbidState": 0,
    "CosHeaders": {
        "x-cos-meta-id": "666666"
```


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```
      }
    }
  }
```

The nodes are as described below:

Node Name (Keyword)	Description	Type
JobsDetail	Job result details.	Object
EventName	Job type: ReviewDocument.	String

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Code	Error code, which will be returned only if `State` is `Failed`. For more information, see Error Codes.	String
Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Moderation job ID.	String
DataId	The original content will be returned if the `DataId` parameter is set when the job is submitted, which can contain up to 512 bytes.	String
State	Status of the moderation job. Valid values: Submitted, Success, Failed, Auditing.	String
Label	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, and `Ads`.	String
Suggestion	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), and `2` (suspiciously sensitive, with human review recommended).	Integer
CreationTime	Creation time of the text moderation job.	String
Object	If the moderated file is a file stored in COS, this field indicates its filename.	String
Url	The URL of the file to be moderated, which will be returned if `Url` is selected during job creation.	String

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PageCount	Document moderation converts a document to images for moderation. This field indicates the total number of generated images.	Integer
Labels	This field is used to return the hit moderation scenes and corresponding results.	Object
PageSegment	Specific moderation result of each image after the document is converted to images.	Object
ForbidState	If you set automatic freezing, this field indicates the status of the document. 0: not frozen; 1: frozen, 2: file moved.	Integer
CosHeaders	The custom header content set when the resource is uploaded to COS. If it is not set, it will not be returned. It is in a map structure, where `key` is the custom header name and `value` is the content.	Object
UserInfo	Business field. This field will not exist if `UserInfo` is not set during job creation.	Object
ListInfo	Blocklist/Allowlist status of the account.	Container

`Labels` has the following sub-nodes:

Node Name (Keyword)	Description	Type
PornInfo	The moderation result of the **pornographic information** moderation scene.	Object
AdsInfo	The moderation result of the **advertising information** moderation scene.	Object

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Description	Type
HitFlag	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as a violation of the current scene); `2` (suspected as a violation of the current scene).	Integer
Score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer

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`PageSegment` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Results	Detailed moderation result of each image after the document is converted to images.	Array

`Results` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Url	After the document is converted to images, you can view the image content at this URL. It must be a standard URL. Note: Each URL is valid for two hours. If you need to view the data after two hours, initiate a new query request.	String
Text	This field is used to return the OCR text recognition result of the current image. It will be returned only if text content detection is enabled in the moderation policy.	String
PageNumber	Number of images, which is usually the number of pages in the document.	Integer
SheetNumber	If the moderated file is a spreadsheet, this field indicates the number of sheets.	Integer
Label	This field is used to return the **maliciousness label with the highest priority** in the detection result, which represents the moderation result suggested by the model. We recommend you handle different types of violations and suggestions based on your business needs. Return values: `Normal`, `Porn`, and `Ads`.	String
Suggestion	This field indicates the moderation result. You can perform subsequent operations based on the result. We recommend you handle different results based on your business needs. Valid values: `0` (normal), `1` (sensitive), `2` (suspiciously sensitive, with human review recommended).	Integer
PornInfo	The moderation result of the **pornographic information** moderation scene.	Object
AdsInfo	The moderation result of the **advertising information** moderation scene.	Object

`PornInfo` and `AdsInfo` have the following sub-nodes:

Node Name (Keyword)	Description	Type
HitFlag	The moderation result returned for the moderation scene. Return values: `0` (normal); `1` (confirmed as a violation of the current scene); `2` (suspected as a	Integer

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	violation of the current scene).	
Score	The confidence the moderation result hits the moderation scene. Value range: 0–100. The higher the value, the more likely the content hits the currently returned moderation scene. Generally, a value in the range of 0–60, 61–90, or 91–100 means that the image is normal, suspiciously sensitive, or sensitive respectively. For example, `Porn 99` means that the content is very likely to be pornographic.	Integer
Category	This field indicates the specific moderation category hit; for example, `Sexy` represents the sexy category in the `Porn` label. It may be null, indicating that no category is hit or there is no relevant category.	String
SubLabel	This field indicates the specific sub-label hit by the moderation job; for example, `SexBehavior` is a sub-label under the `Porn` label. Note: This field may return null, indicating that no specific sub-labels are hit.	String
OcrResults	This field represents the detailed OCR result, including the text coordinate information and text recognition result. It will be returned if there is non-compliant content.	Array
LibResults	This field returns results based on recognition against the risk library. Note: This field will not be returned if no samples in the risk library are hit.	Container Array

`LibResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
ImageId	This field represents the hit image sample ID in the risk library.	String
Score	This field returns the confidence under the current label. Value range: 0–100. The higher the value, the more likely the image hits a sample in the risk library. For example, `Porn 99` means that the content is very likely to hit a pornographic sample in the library.	Integer

`OcrResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Text	The specific text content recognized by OCR in the image.	String
Keywords	Keywords hit by the current moderation scene.	Array
Location	This parameter is used to return the position (X and Y coordinates of the top-left	Object

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	corner, length, width, and rotation angle) of the OCR detection frame in the image for quick location of the recognized text.	

`ObjectResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
Name	This field is used to return the name of the recognized object, such as person name.	String
Location	This parameter is used to return the position (X and Y coordinates of the top-left corner, length, width, and rotation angle) of the recognition result in the image for you to quickly locate information.	Object

`Location` has the following sub-nodes:

Node Name (Keyword)	Description	Type
X	This parameter is used to return the pixel position of the **abscissa (X) of the top-left corner** of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Y	This parameter is used to return the pixel position of the **ordinate of the top-left corner** (Y) of the detection frame. It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Height	This parameter is used to return the **height of the detection frame** (the length starting from the top-left corner and extending down the Y axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Width	This parameter is used to return the **width of the detection frame** (the length starting from the top-left corner and extending to the right on the X axis). It can be combined with other parameters to uniquely determine the size and position of the detection frame.	Float
Rotate	This parameter is used to return the **rotation angle of the detection frame**. Valid values: **0–360** (**degrees**), and the direction is **counterclockwise rotation**. This parameter can be combined with the `X` and `Y` coordinate parameters to uniquely determine the specific position of the detection frame.	Float

`UserInfo` has the following sub-nodes:

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Node Name (Keyword)	Description	Type	Required
TokenId	Account information, which can contain up to 128 bytes.	String	No
Nickname	Nickname information, which can contain up to 128 bytes.	String	No
DeviceId	Device information, which can contain up to 128 bytes.	String	No
AppId	Unique app ID, which can contain up to 128 bytes.	String	No
Room	Room ID information, which can contain up to 128 bytes.	String	No
IP	IP address information, which can contain up to 128 bytes.	String	No
Type	Business type, which can contain up to 128 bytes.	String	No
ReceiveTokenId	User account to receive messages, which can contain up to 128 bytes.	String	No
Gender	Gender information, which can contain up to 128 bytes.	String	No
Level	Level information, which can contain up to 128 bytes.	String	No
Role	Role information, which can contain up to 128 bytes.	String	No

`ListInfo` has the following sub-nodes:

Node Name (Keyword)	Description	Type
ListResults	Results in all hit lists.	Container Array

`ListResults` has the following sub-nodes:

Node Name (Keyword)	Description	Type
ListType	Type of the hit list. Valid values: `0` (allowlist), `1` (blocklist).	Integer
ListName	Name of the hit list.	String
Entity	Entity hit in the list.	String

Examples

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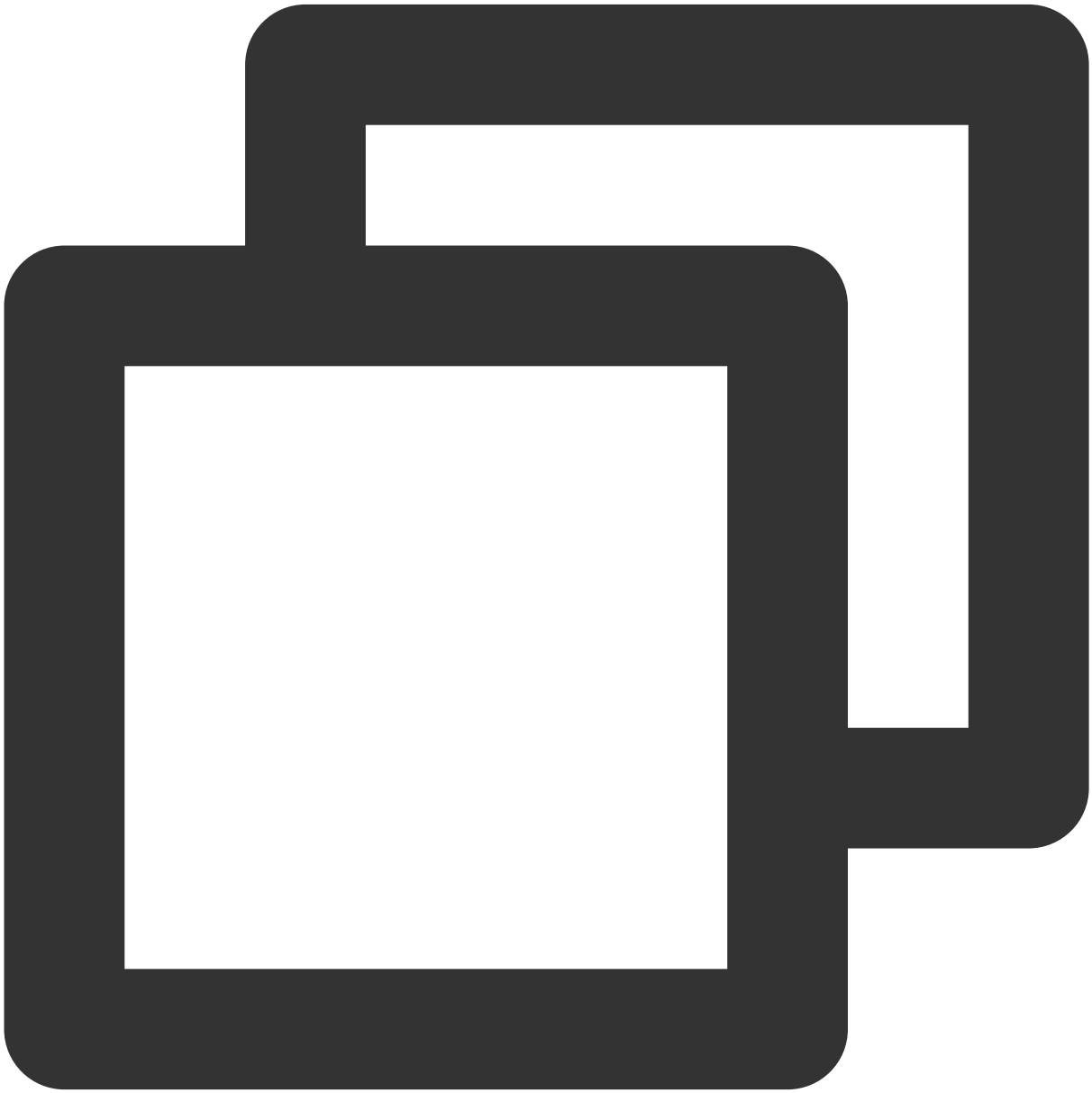

```
{
  "EventName": "ReviewDocument",
  "JobsDetail": {
    "JobId": "xxxxxx",
    "State": "Success",
    "CreationTime": "2021-08-10T21:01:10+08:00",
    "Url": "http://test.com/test.doc",
    "Label": "Normal",
    "Suggestion": 0,
    "PageCount": 1,
    "Labels": {
```

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```
        "PornInfo": {
          "HitFlag": 0,
          "Score": 0
        },
        "AdsInfo": {
          "HitFlag": 0,
          "Score": 0
        }
      },
      "PageSegment": {
        "Results": [
        {
          "Url": "http://audit-125000000.cos.ap-chongqing.myqcloud.com/1.jpg",
          "Text": "",
          "PageNumber": 1,
          "SheetNumber": 0,
          "Label": "Normal",
          "Suggestion": 0,
          "PornInfo": {
            "HitFlag": 0,
            "Score": 0,
            "SubLabel": ""
          },
          "AdsInfo": {
            "HitFlag": 0,
            "Score": 0,
            "SubLabel": ""
          }
        }
        ]
      },
      "BucketId": "examplebucket-1250000000",
      "Region": "ap-chongqing",
      "ForbidState": 0,
      "CosHeaders": {
          "x-cos-meta-id": "xxxx"
      }
    }
}
```


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Submitting Virus Detection Job

Submitting Virus Detection Job

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Feature Description

The cloud virus detection feature adopts the async request method. You can use this API to detect viruses such as trojans and worms in COS files, and query the result through the appropriate API.

Billing

If the files are stored in COS STANDARD_IA storage class, calling the detection API will incur STANDARD_IA data retrieval fees as described in Data Retrieval Fees.
Detection is not supported for objects stored in the ARCHIVE or DEEP ARCHIVE storage classes. To detect these objects, you first need to restore them as instructed in POST Object restore.

Restrictions

Supported file size: **< 1 GB**
Supported file formats: EXE, DLL, SCR, SYS, MSI, SWF, JAR, APPLETJAR, JS, VBS, HTML, BAT, WSF, PS1, HTM, MHT, HTA, CHM, LNK, DOC, DOCX, DOTX, DOCM, DOTM, XLS, XLSX, XLSM, XLSB, XLTM, XLTX, XLAM, PPT, PPTX, POTX, PPSX, PPTM, POTM, PPSM, XML, RTF, PDF, ELF, XML, MAC, VBE, 3DMAX, ISO, CPIO, RPM, XZ, DEB.
Supported compressed file formats: ZIP, 7Z, RAR4, RAR5, INNO, CAB, AUTOIT, NSIS, GZ, TAR, ISO, MIME, CHM, JAR, DMG, APK.

Request

Sample request

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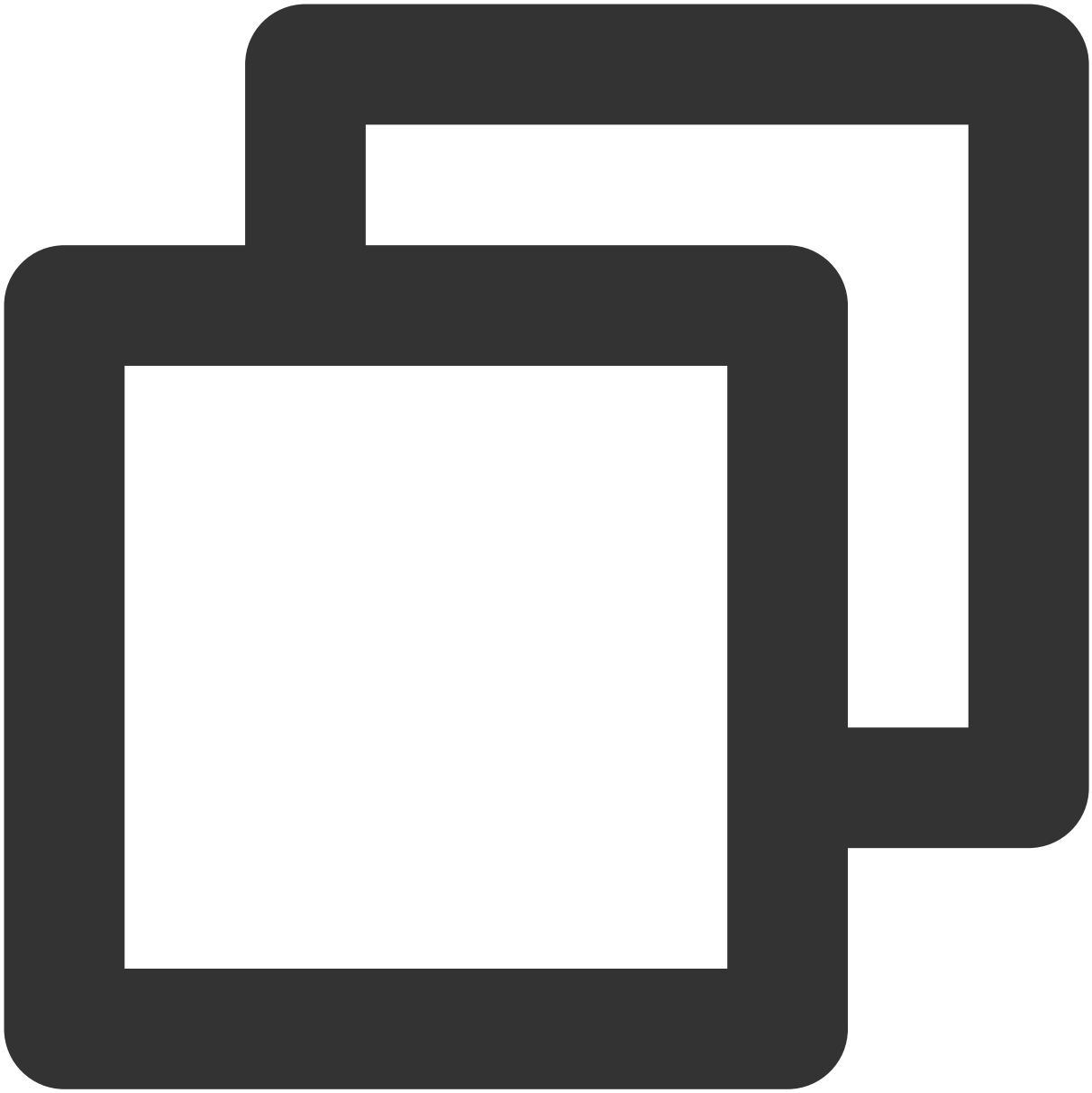

```
POST /virus/detect HTTP/1.1
Host: <BucketName-APPID>.ci.<Region>.myqcloud.com
Date: <GMT Date>
Authorization: <Auth String>
Content-Length: <length>
Content-Type: application/xml

<body>
```

Note:

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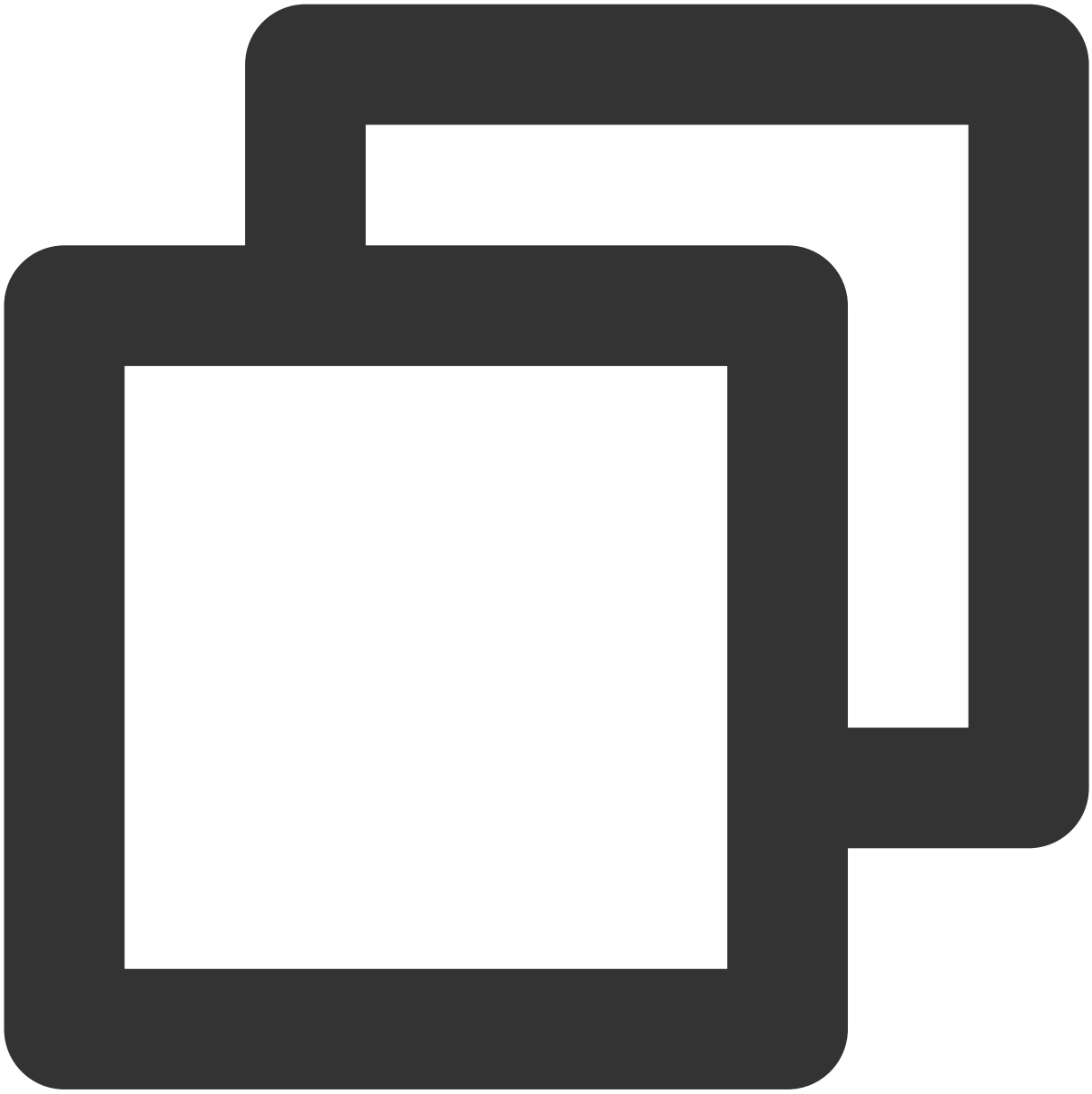
Authorization: Auth String (for more information, see Request Signature).

Request headers

This API only uses common request headers. For more information, see Common Request Headers.

Request body

This request requires the following request body:



```
<Request>
  <Input>
```

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```
    <Object></Object>
    <Url></Url>
  </Input>
  <Conf>
    <DetectType>Virus</DetectType>
    <Callback></Callback>
  </Conf>
</Request>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Virus detection configuration.	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Input	Request	File to be detected.	Container	Yes
Conf	Request	Detection rule configuration.	Container	Yes

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Object	Request.Input	Name of the file stored in the COS bucket; for example, if the file is `virus.doc` in the `test` directory, then the filename is `test/virus.doc`. Note: Either `Object` or `Url` can be selected at a time.	String	Yes
Url	Request.Input	Full URL of the file, such as `http://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/virus.doc`. Note: Either `Object` or `Url` can be selected at a time.	String	No

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required

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DetectType	Request.Conf	Virus detection type, which is fixed at `Virus` currently.	String	Yes
Callback	Request.Conf	The detection result can be sent to your callback address in the form of a callback. Addresses starting with `http://` or `https://` are supported, such as `http://www.callback.com`.	String	No

Response

Response headers

This API only returns common response headers. For more information, see Common Response Headers.

Response body

The response body returns **application/xml** data. The following contains all the nodes:

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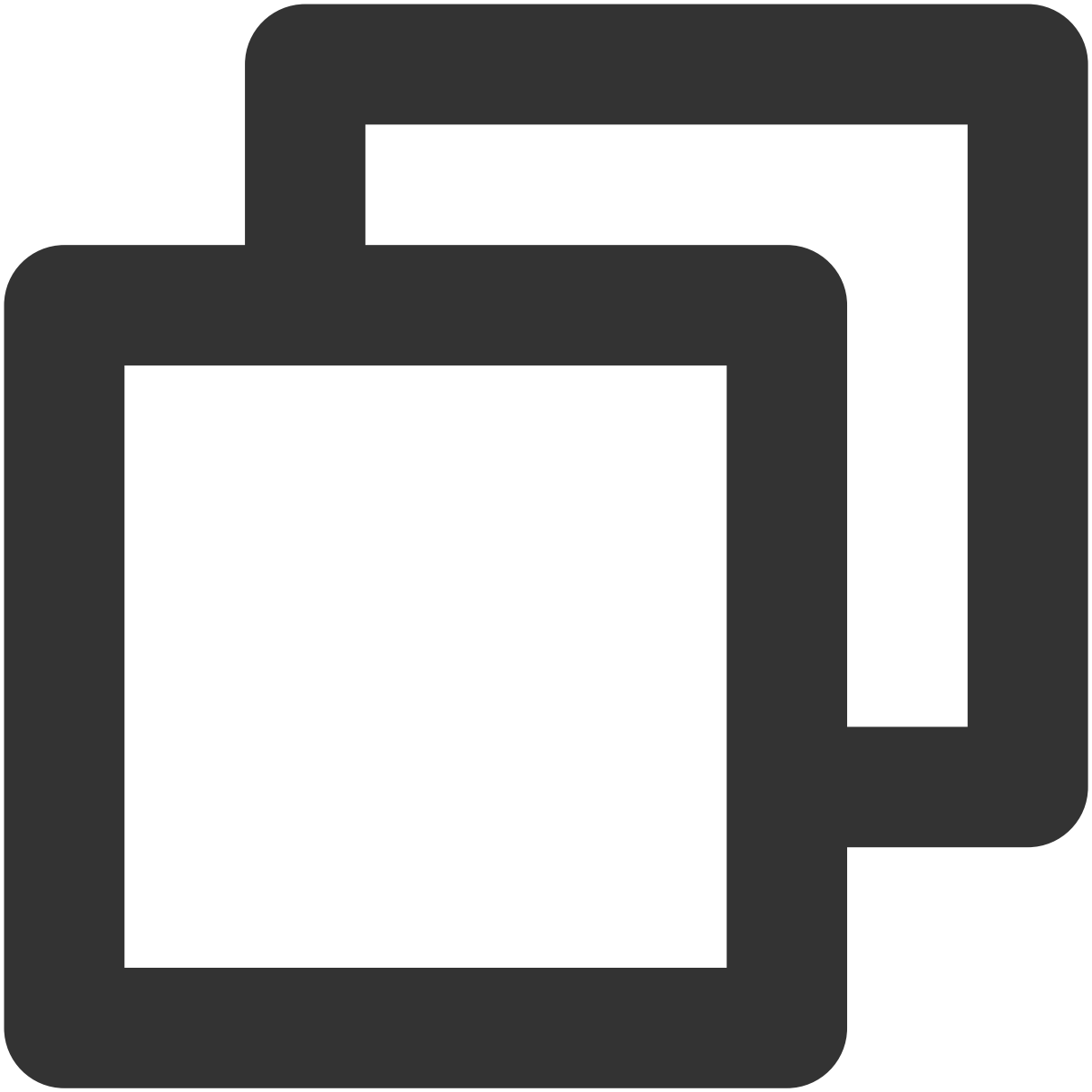

```
<Response>
  <JobsDetail>
    <JobId></JobId>
    <State></State>
    <CreationTime></CreationTime>
  </JobsDetail>
</Response>
```

The nodes are as described below:

Node Name (Keyword)	Parent Node	Description	Type

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Response	None	Specific virus detection response content.	Container

`Response` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobsDetail	Response	Virus detection job details	Container

`JobsDetail` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
JobId	Response.JobsDetail	Virus detection job ID.	String
State	Response.JobsDetail	Virus detection job status. Valid values: `Submitted`, `Success`, `Failed`, `Auditing`.	String
CreationTime	Response.JobsDetail	Virus detection job creation time.	String

Error codes

There are no special error messages for this request. For common error messages, see Error Codes.

Samples

Request

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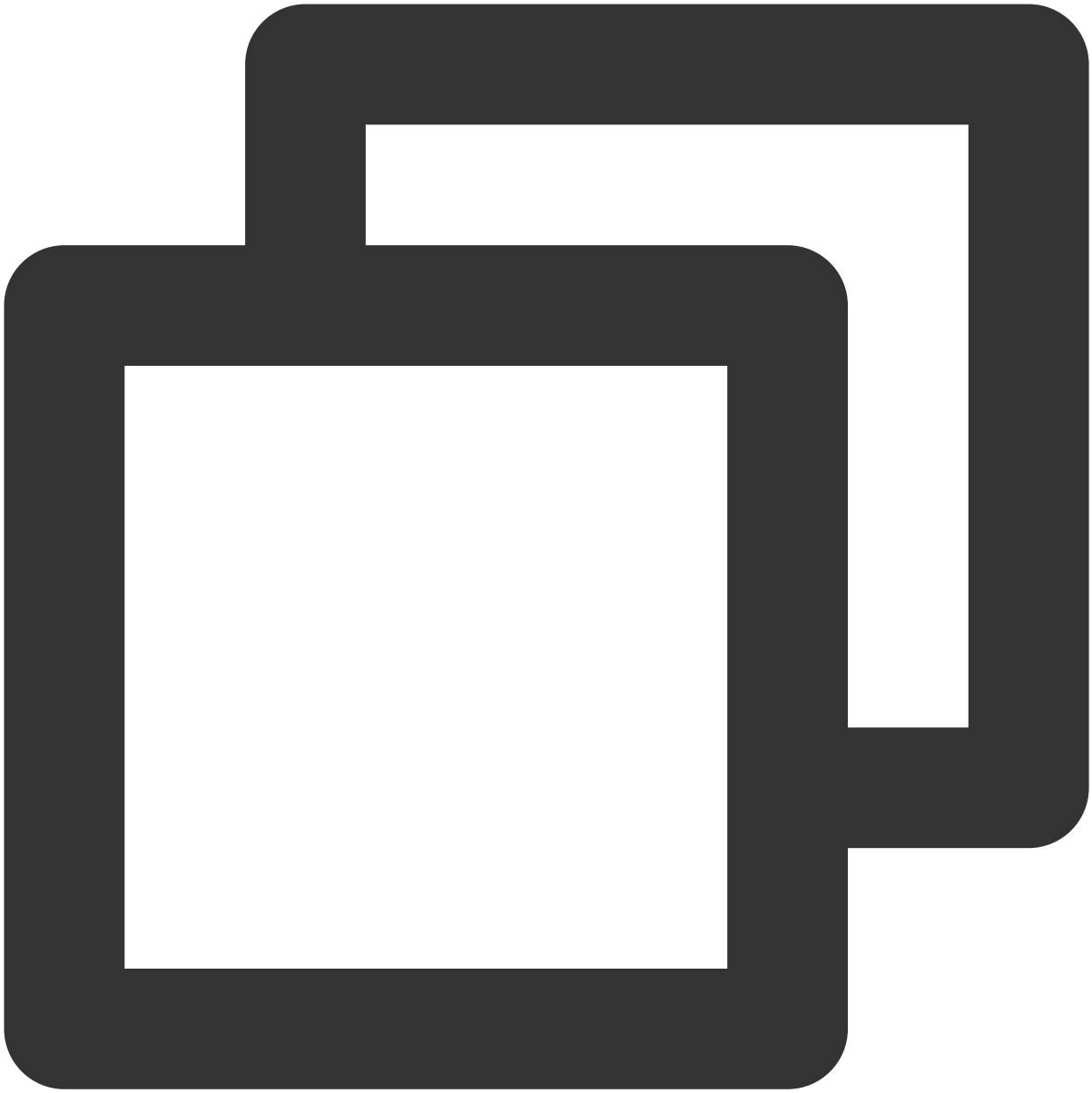

```
POST /virus/detect HTTP/1.1
Authorization: q-sign-algorithm=sha1&q-ak=AKIDZfbOAo7cllgPvF9cXFrJD0a1ICvR****&q-si
Host: examplebucket-1250000000.ci.ap-beijing.myqcloud.com
Content-Length: 166
Content-Type: application/xml

<Request>
  <Input>
    <Object>a.doc</Object>
  </Input>
  <Conf>
```

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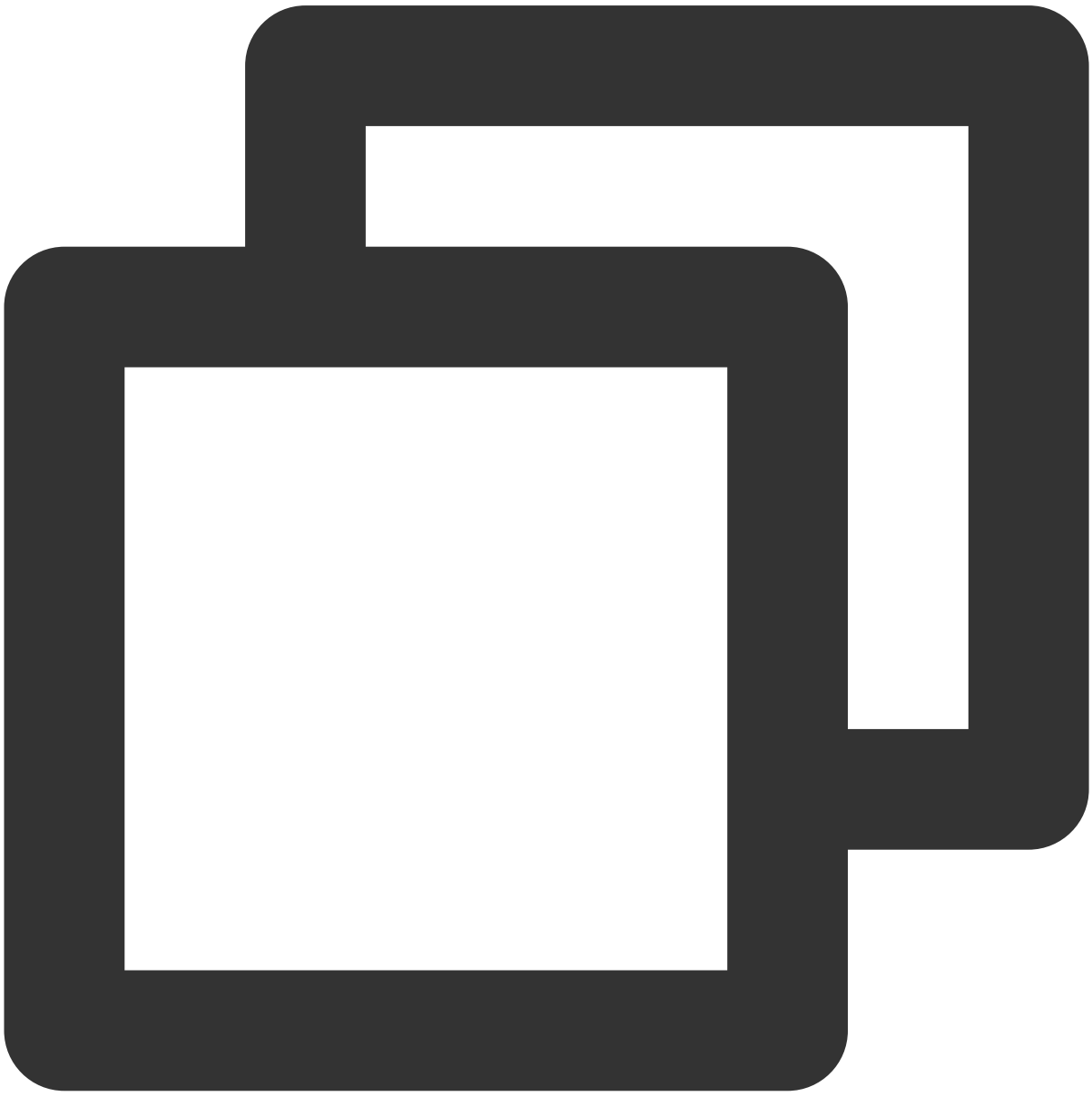
```
    <DetectType>Virus</DetectType>
    <Callback>http://callback.com/</Callback>
  </Conf>
</Request>
```

Response



```
HTTP/1.1 200 OK
Content-Type: application/xml
Content-Length: 230
```

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```
Connection: keep-alive
Date: Thu, 15 Jun 2017 12:37:29 GMT
Server: tencent-ci
x-ci-request-id: NTk0MjdmODlfMjQ4OGY3XzYzYzhf****

<Response>
  <JobsDetail>
    <JobId>ssb1ca9fc8a3ed11ea834c525400863904</JobId>
    <State>Submitted</State>
    <CreationTime>2021-07-07T12:12:12+0800</CreationTime>
  </JobsDetail>
</Response>
```

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