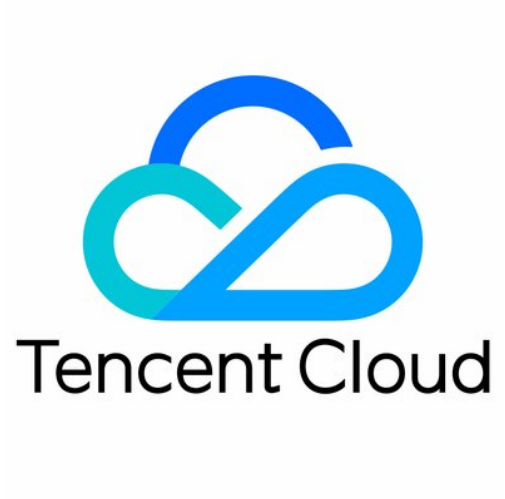
Cloud Infinite

SDK Documentation

Product Documentation



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Contents

SDK Documentation
- SDK Overview
- Android SDK
  - Getting Started
  - Basic Image Processing
    - Image Processing
    - Loading Image with Glide
  - Loading TPG Image
  - Loading AVIF Image
- iOS SDK
  - Getting Started
  - Loading TPG Image
  - Basic Image Processing
    - Image Processing
- COS Android SDK
  - Content Moderation
    - Image Moderation
    - Video Moderation
    - Audio Moderation
    - Text Moderation
    - File Moderation
- C SDK
  - Getting Started
  - Image Processing
    - Persistent Image Processing
    - Basic Image Processing
    - Image Advanced Compression
  - Media Processing
    - Media Bucket APIs
    - Media Information APIs
    - Media Screenshot APIs
  - Content Moderation
    - Video Moderation
  - Content Recognition
    - QR Code Recognition

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- C++ SDK
  - Getting Started
  - Image Processing
    - Persistent Image Processing
    - Basic Image Processing
    - Blind Watermark
  - Media Processing
    - Media Bucket APIs
    - Media Information APIs
    - Media Screenshot APIs
  - Content Moderation
    - Image Moderation
    - Video Moderation
    - Audio Moderation
    - Text Moderation
    - File Moderation
    - Webpage Moderation
- .NET(C#) SDK
  - Getting Started
  - Image Processing
    - Basic Image Processing
    - Blind Watermark
  - Media Processing
    - Media Bucket APIs
    - Media Information APIs
    - Media Screenshot APIs
  - Content Moderation
    - Image Moderation
    - Video Moderation
    - Audio Moderation
    - File Moderation
    - Text Moderation
- Go SDK
  - Getting Started
  - Image Processing
    - Persistent Image Processing
    - Basic Image Processing
    - Image Advanced Compression

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Guetzli Compression
Blind Watermark
CI Service
Original Image Protection
Media Processing
Media Bucket APIs
Media Information APIs
Media Screenshot APIs
File Preview
Querying Document Preview Feature Status
Sync Request API
Async Processing Queue APIs
Async Processing Job APIs
File-to-HTML Conversion
Content Moderation
Image Moderation
Video Moderation
Audio Moderation
Text Moderation
AI-Based Content Recognition
Image QR Code
File Processing
File Decompression
Multi-File Zipping
Hash Calculation
COS iOS SDK
Content Moderation
Image Moderation
Video Moderation
Audio Moderation
Text Moderation
File Moderation
Webpage Moderation
Java SDK
Getting Started
FAQs
Image Processing
Basic Image Processing

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Persistent Image Processing
Image Advanced Compression
Blind Watermark
AI-Based Content Recognition
Image Tagging
Vehicle Recognition
Media Processing
Template Operations
Workflow Operations
Video Frame Capturing
File Preview
Generating Sync Preview URL
Content Moderation
Image Moderation
Video Moderation
Audio Moderation
File Moderation
Text Moderation
Callback Information Processing
Troubleshooting
File Processing
Hash Calculation
JavaScript SDK
Getting Started
Image Processing
Basic Image Processing
Blind Watermark
Media Processing
Media Bucket APIs
Media Information APIs
Media Screenshot APIs
Content Moderation
Image Moderation
Video Moderation
Audio Moderation
Text Moderation
Webpage Moderation
File Processing

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File Decompression
Multi-File Zipping
Hash Calculation
Node.js SDK
Getting Started
Image Processing
Basic Image Processing
Blind Watermark
Media Processing
Media Bucket APIs
Media Information APIs
Media Screenshot APIs
PHP SDK
Getting Started
Image Processing
Basic Image Processing
Image Style
Persistent Image Processing
Blind Watermark
Image Advanced Compression
Guetzli Compression
Media Processing
Media Bucket APIs
Media Information APIs
Media Screenshot APIs
Private M3U8 APIs
Queue APIs
File Processing
Querying File Preview Feature Status
File Transcoding
Sync Request API
Async Processing Job APIs
Async Processing Queue APIs
File-to-HTML Conversion
Content Recognition
Image Tagging
Image QR Code
Job APIs

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Animated Image Job APIs
Screenshot Job APIs
Transcoding Job APIs
Splicing Job APIs
Intelligent Thumbnail Job APIs
Multi-Job APIs
Video Enhancement Job APIs
Video Montage Job APIs
Voice/Sound Separation Job APIs
SDR-to-HDR Job APIs
Digital Watermark Job APIs
Super Resolution Job APIs
Video Tagging Job APIs
Image Processing Job APIs
Remuxing Job APIs
Template APIs
Template Search API
File Processing
Multi-File Zipping
Hash Calculation
File Decompression
Python SDK
Getting Started
Image Processing
Persistent Image Processing
Image Advanced Compression
Blind Watermark
Media Processing
Media Information APIs
Media Screenshot APIs
Content Moderation
Image Moderation
Video Moderation
Audio Moderation
Text Moderation
File Moderation
Webpage Moderation
Content Recognition

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Speech Recognition
Job APIs
Speech Recognition Bucket APIs
Queue APIs
Image QR Code
File Processing
File Transcoding
Sync Request API
Async Processing Job APIs
Async Processing Queue APIs
File-to-HTML Conversion
Querying File Preview Feature Status
Template APIs
Speech Recognition
File Processing
File Decompression
Querying File Decompression Result
Submitting File Decompression Job
Mini Program SDK
Getting Started
Image Processing
Basic Image Processing
Blind Watermark
Media Processing
Media Bucket APIs
Media Information APIs
Media Screenshot APIs
Content Moderation
Live Stream Moderation
Personal Information Protection Policy for SDK
Personal Information Protection Policy for CI SDK

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SDK Documentation
SDK Overview

Last updated：2024-03-04 10:30:23

To make it easier and faster for you to use CI's basic image processing and media processing features and CDN's image delivery features, we provide the following SDKs for your choice as needed. For more information, see their respective quick start documentation. COS SDKs also integrate CI's data processing features. If you need to use SDKs for other languages such as C++ and JavaScript, see SDK Overview.

SDK	Quick Start Documentation
Android SDK	Getting Started
C SDK	Getting Started
C++ SDK	Getting Started
.NET (C#) SDK	Getting Started
Go SDK	Getting Started
iOS SDK	Getting Started
Java SDK	Getting Started
JavaScript SDK	Getting Started
Node.js SDK	Getting Started
PHP SDK	Getting Started
Python SDK	Getting Started
Mini program SDK	Getting Started

Note:

For more information on TPG, see TPG Compression.

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Android SDK
Getting Started

Last updated：2024-03-04 10:30:23

Overview

To make it easier and faster for you to use CI's basic image processing features and CDN's image delivery features, we provide the following five modules for your choice as needed:

Module	Feature
cloud-infinite (default module)	This module contains CI's basic image processing operations and supports freely combining various operations to build URLs for network requests.
cloud-infinite-loader	This module uses the `CIImageLoadRequest` instance to request online images and return image data.
TPG	This module decodes and displays general images and TPG images.
AVIF	This module decodes and displays general images and AVIF images.
cloud-infinite-glide	This module depends on the `glide` and `cloud-infinite` modules to provide CI's basic image processing features.

Note:

For more information on TPG, see TPG Compression.

Resources

For the SDK source code and demo, see here.

For SDK APIs and parameters, see Scaling.

For SDK release notes, see Changelog.

Prerequisites

1. You need an Android app, which can be one of your existing projects or a new one.
2. Make sure that the application is built by using an SDK running on Android 4.0.3 or later.

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Step 1. Install the cloud-infinite SDK

The `cloud-infinite` module has the following main features:
It contains CI's basic image processing operations, such as image scaling, cropping, rotation, format conversion, quality change, Gaussian blur, sharpening, watermarking, and image theme color acquisition.
It encapsulates each operation as a CITransform and supports freely combining basic operations to build URLs for direct network requests.

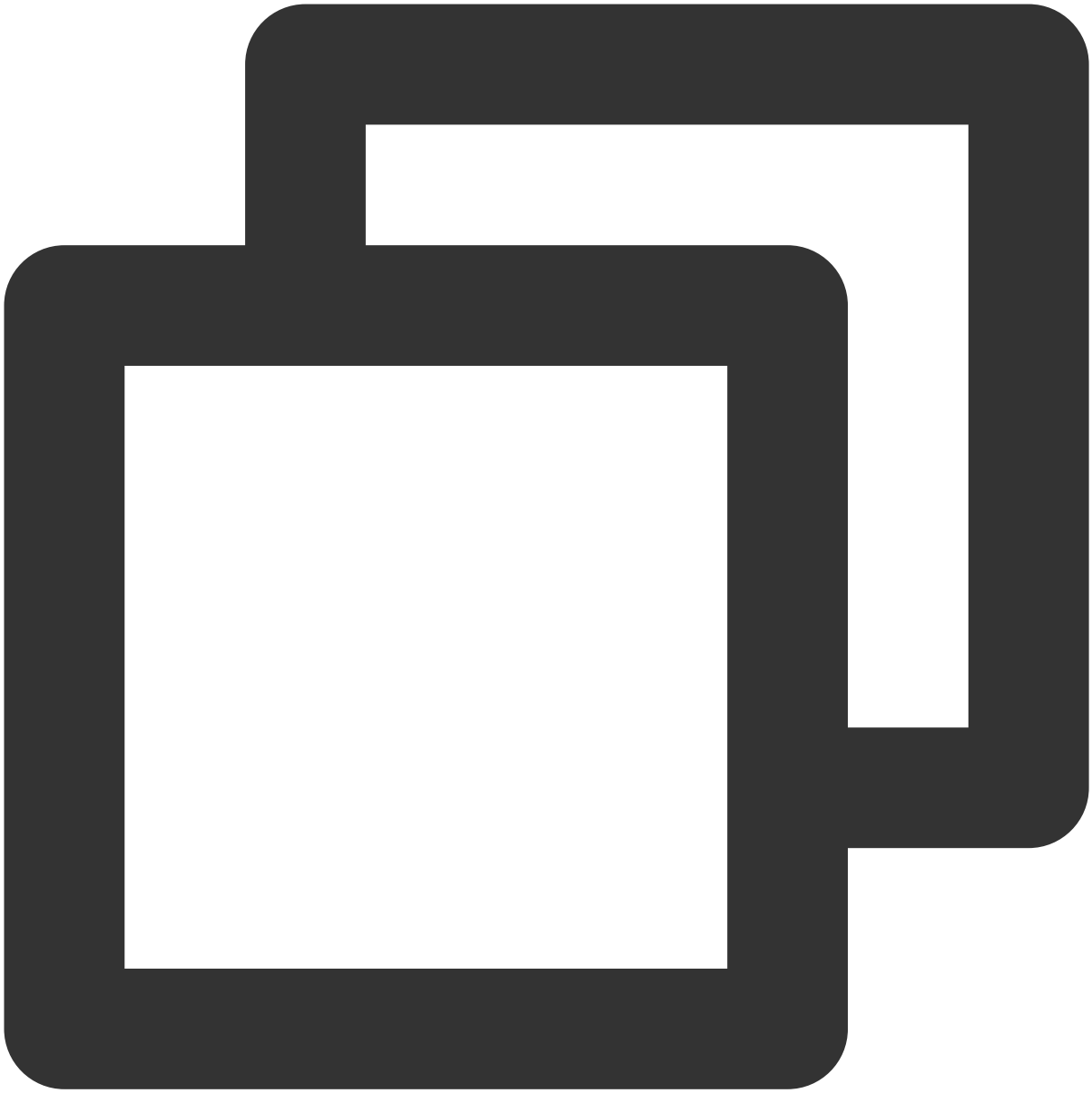
Use Gradle for integration

Note:

As the Bintray repository is no longer available, CI's SDKs have been migrated to Maven Central. The import path is different, so you need to use the new import path during the update.

Add the following code to the project-level `build.gradle` file (usually in the root directory):

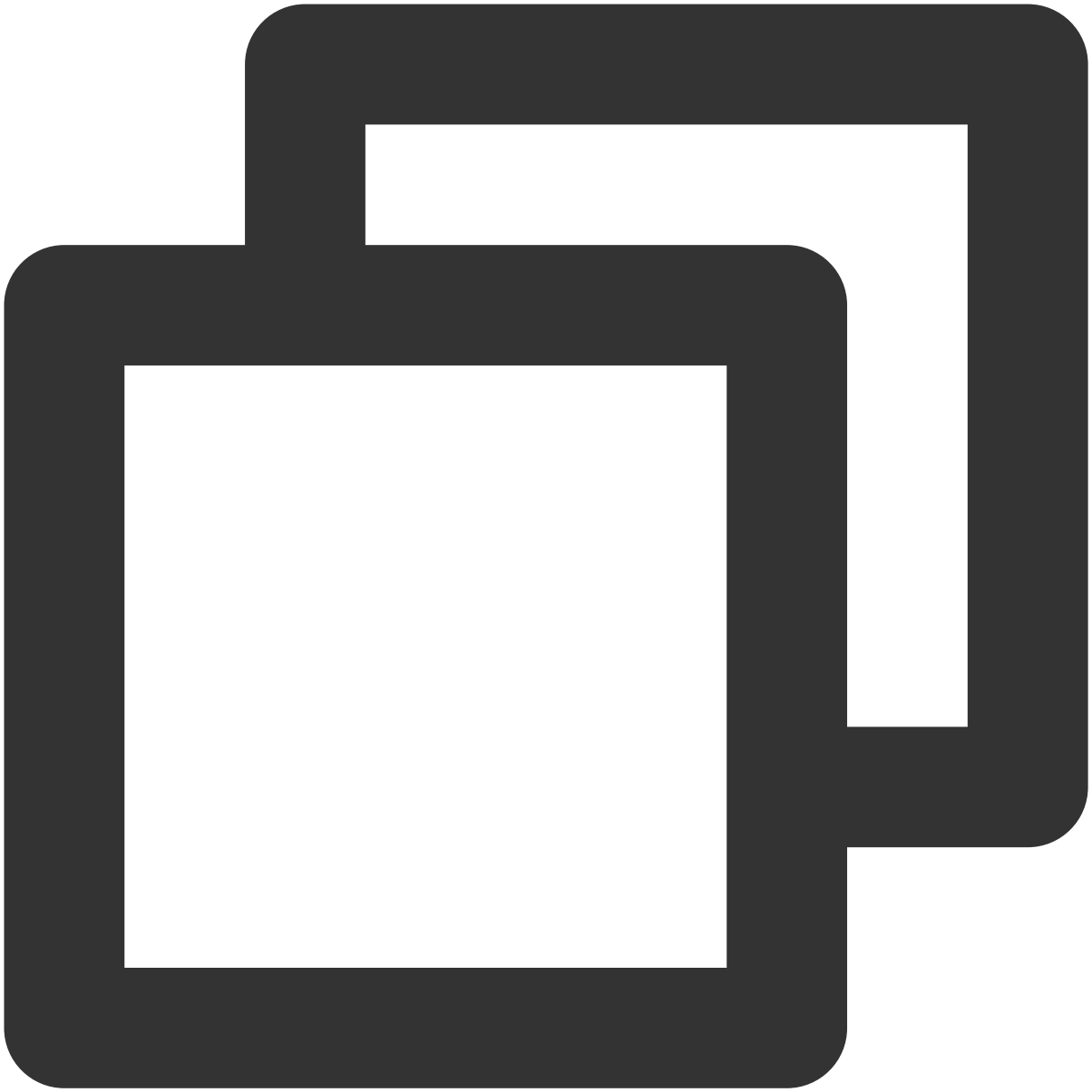
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```
repositories {
    google()
    // Add the following line
    mavenCentral()
}
```

Add the following to the `build.gradle` of your app or other class libraries:

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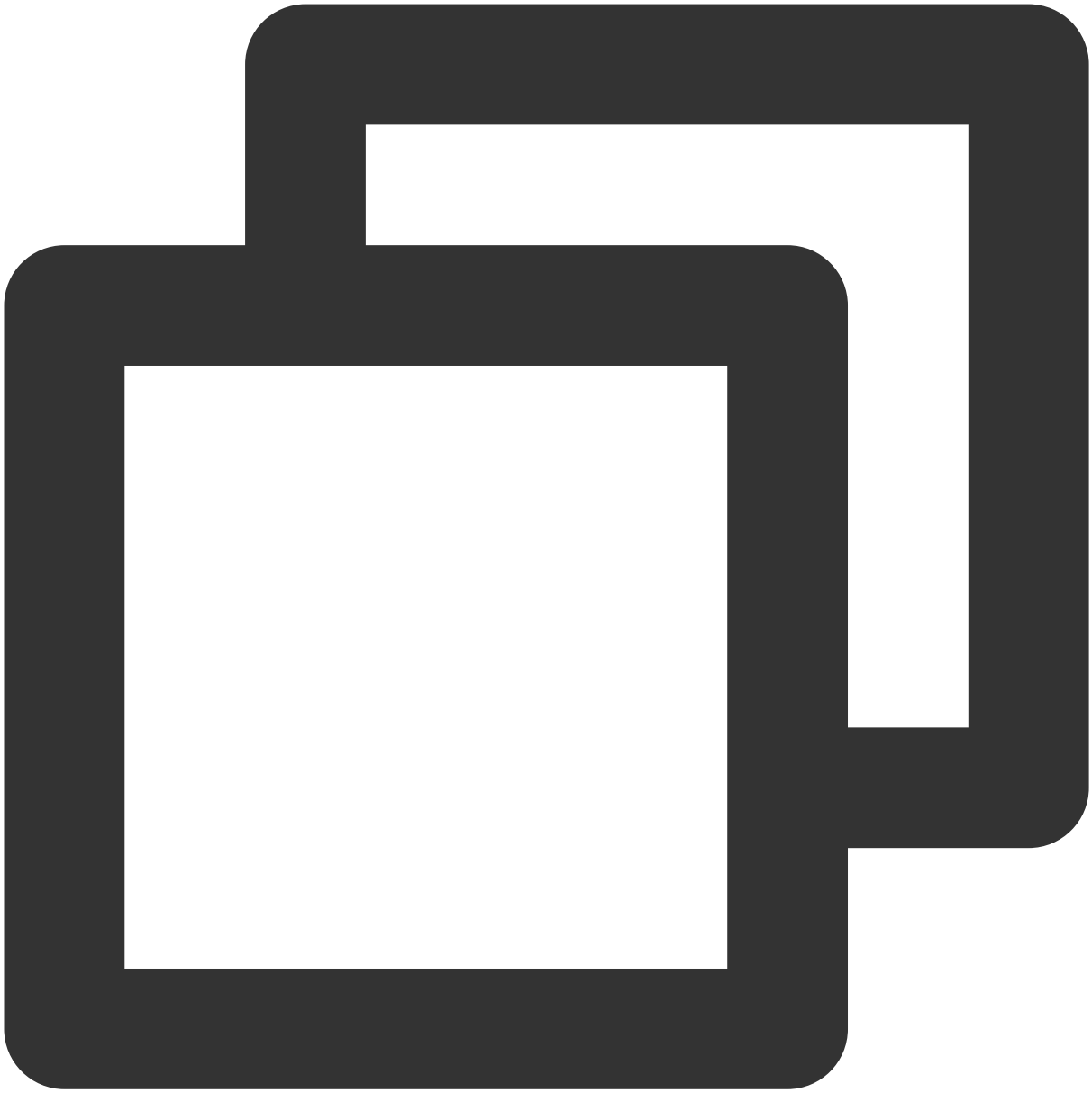
```
implementation 'com.qcloud.cos:cloud-infinite:1.2.1'
```

Step 2. Start using

Build the CIImageLoadRequest instance

1. When using CloudInfinite to build a CI-enabled image URL, you first need to instantiate the CloudInfinite class.

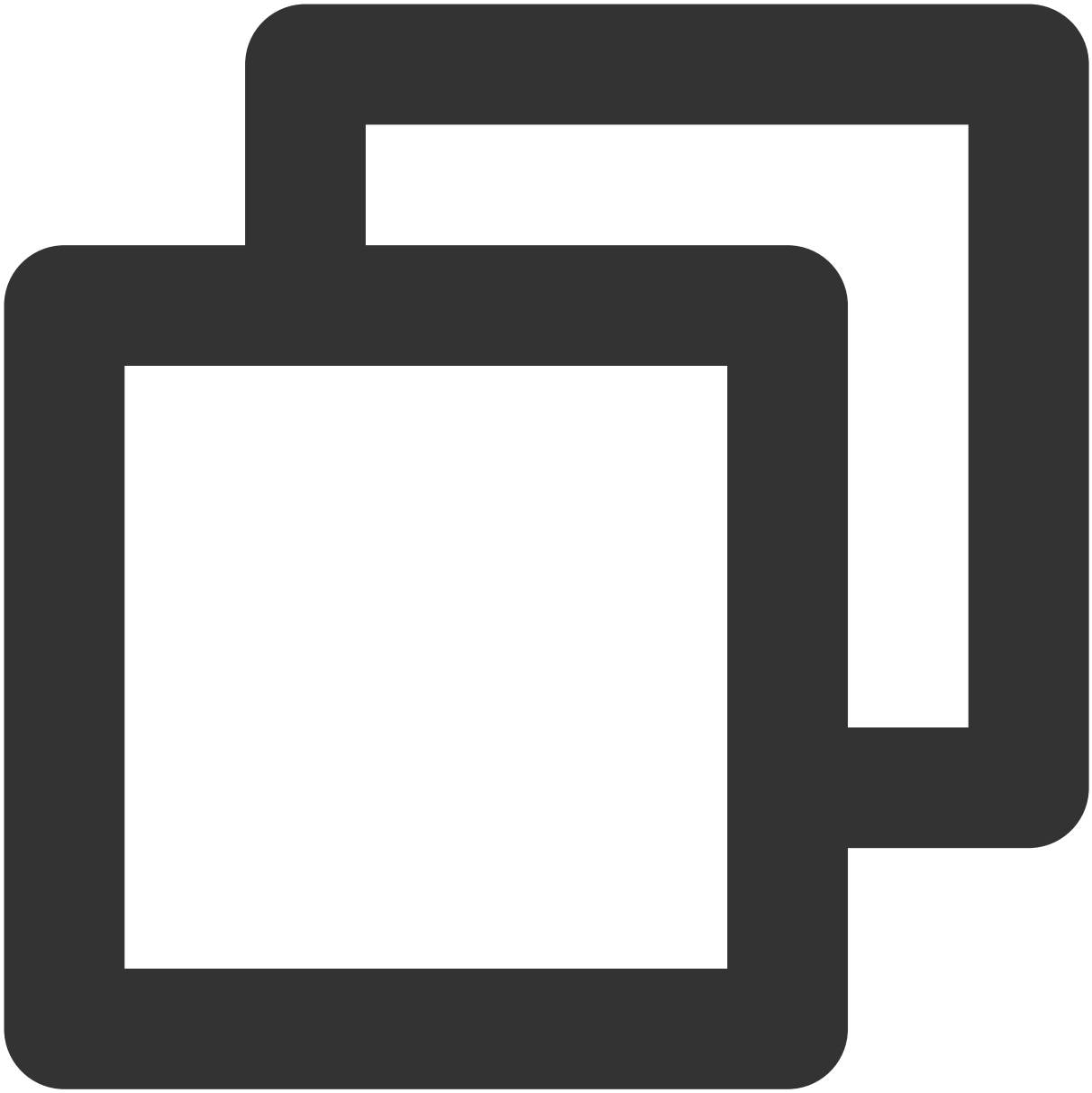
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```
CloudInfinite cloudInfinite = new CloudInfinite();
```

2. Instantiate the image transformation class `CITransformation` and set related operations. The following takes TPG as an example. For more features, see Basic Image Processing.

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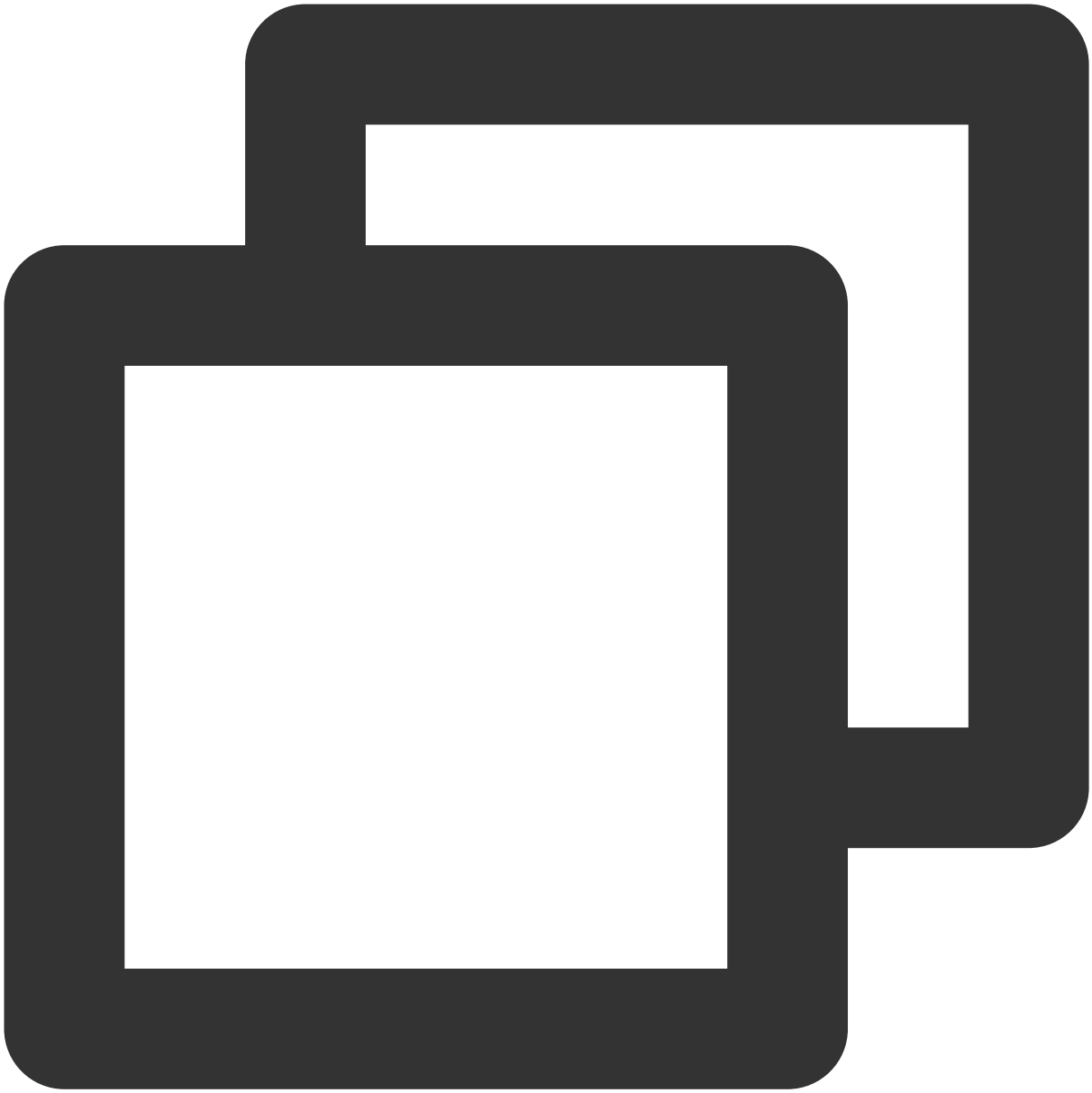


```
CITransformation transform = new CITransformation();
transform.format(CIImageFormat.TPG, CIImageLoadOptions.LoadTypeUrlFooter)
```

3. Use the CloudInfinite instance to build a CI-enabled image URL.

Build synchronously

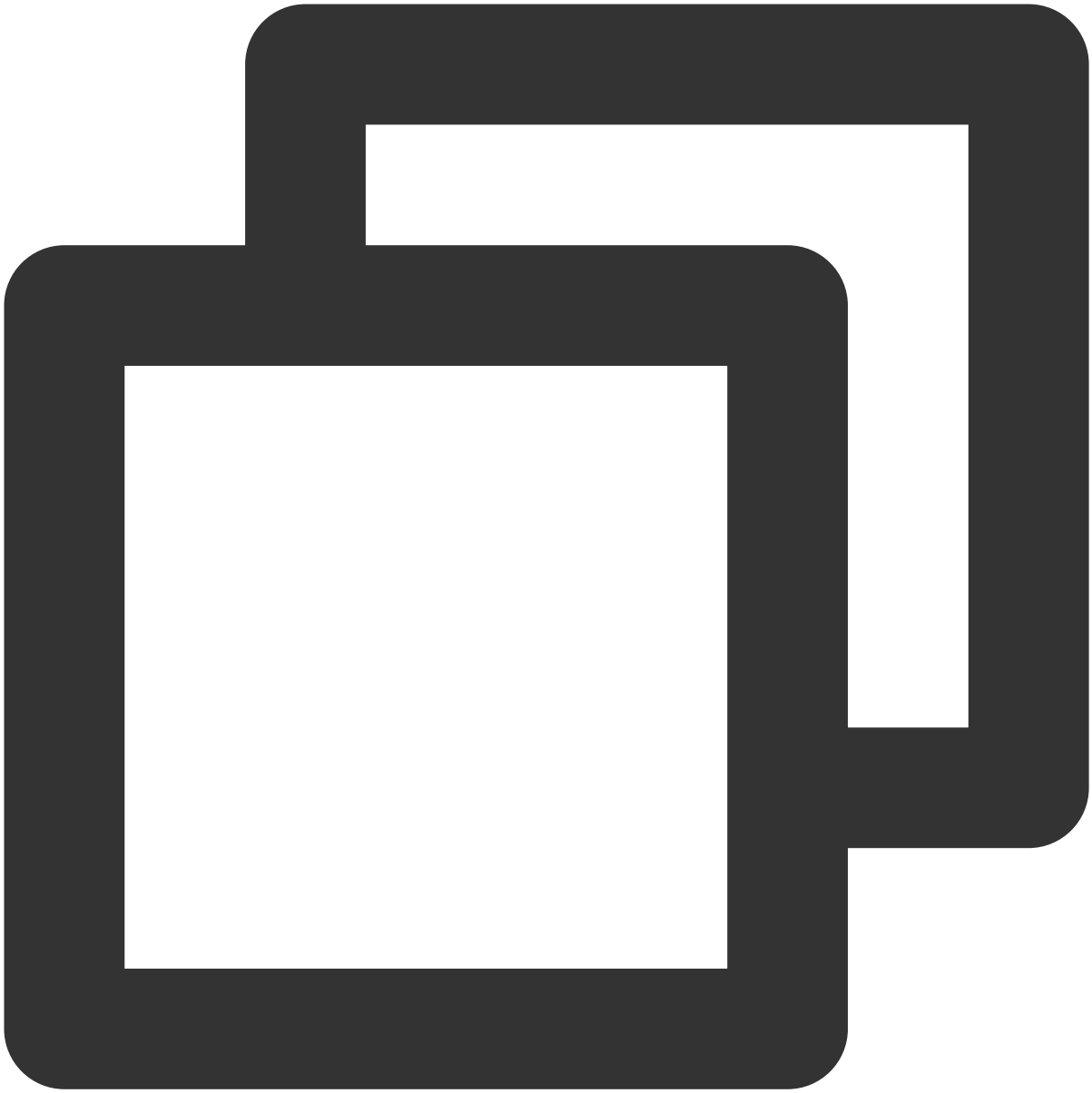
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```
CIImageLoadRequest request = cloudInfinite.requestWithBaseUrlSync(objectUrl, transf
// Image URL
URL imageURL = request.getUrl();
// Header parameter
Map<String, List<String>> heaers = request.getHeaders();
```

Build asynchronously

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```
cloudInfinite.requestWithBaseUrl(objectUrl, transform, new CloudInfiniteCallback()
     @Override
     public void onImageLoadRequest(@NonNull final CIImageLoadRequest request) {
         // Image URL
         URL imageURL = request.getUrl();
         // Header parameter
         Map<String, List<String>> heaers = request.getHeaders();
     }
 });
```

Note:

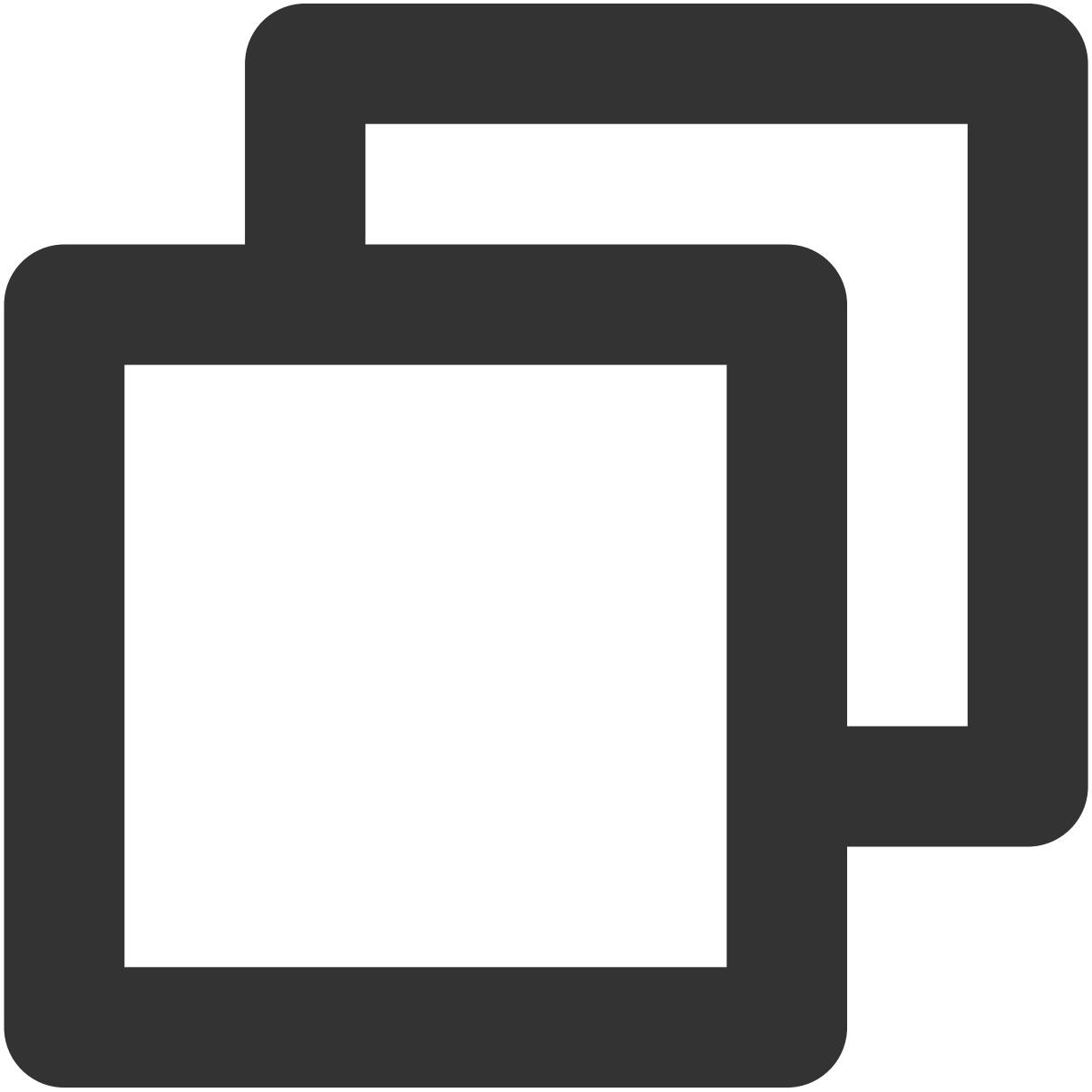
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The header parameter of CIImageLoadRequest is valid only when image format conversion is performed and `options` is set to `LoadTypeAcceptHeader` .

Step 3. Load an image

After successfully building the CIImageLoadRequest instance, use the cloud-infinite-loader SDK to load an image.

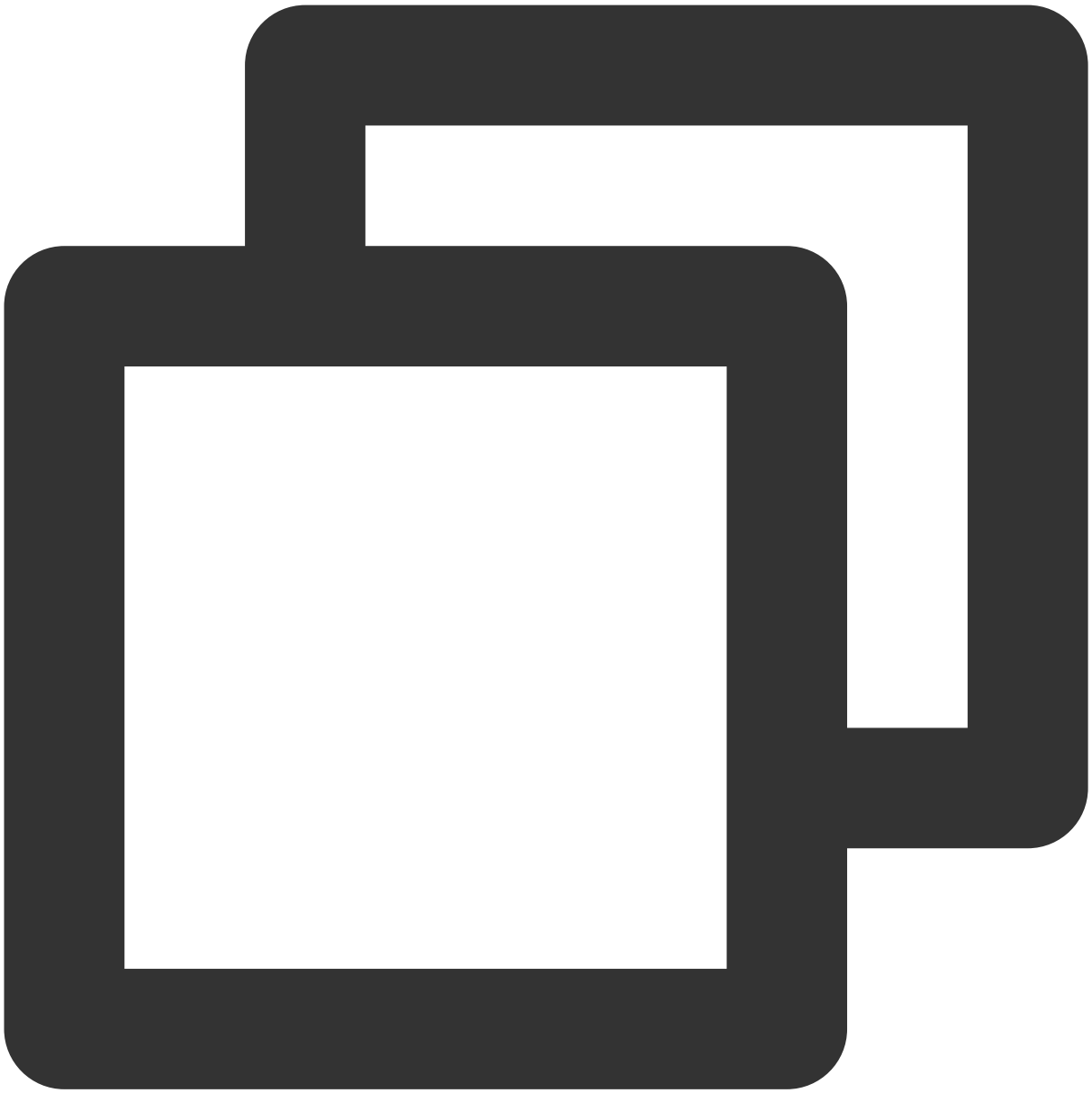
1. Integrate the cloud-infinite-loader SDK.



```
implementation 'com.qcloud.cos:cloud-infinite-loader:1.2.1'
```

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2. Add the INTERNET permission.

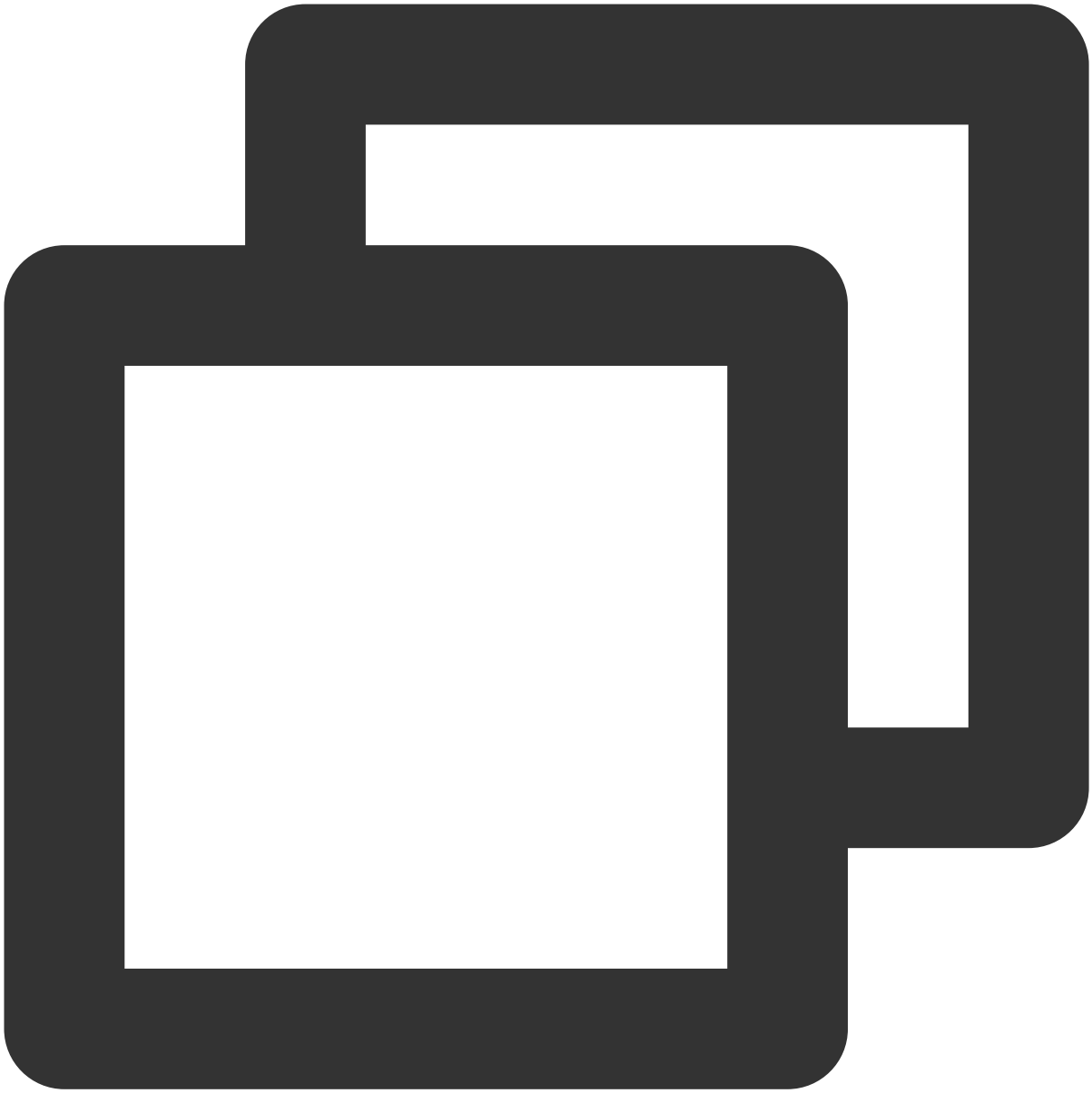


```
<uses-permission android:name="android.permission.INTERNET" />
```

3. Load the image.

Directly load ImageView

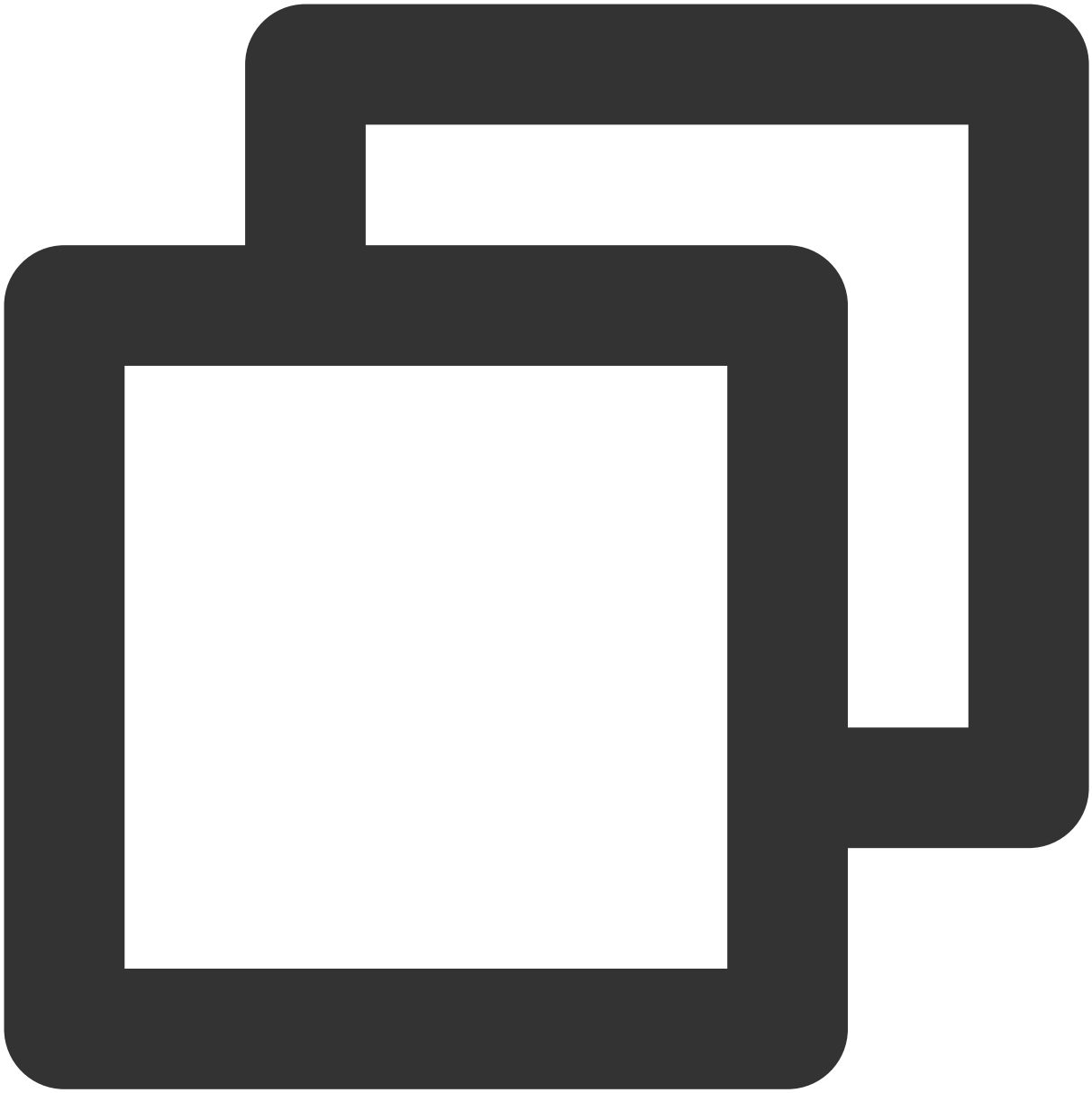
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```
CIImageLoader ciImageLoader = new CIImageLoader();
ciImageLoader.display(request, imageview);
```

Request image data

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```
CIImageLoader ciImageLoader = new CIImageLoader();
ciImageLoader.loadData(request, new CIImageLoadDataCallBack() {
 @Override
 public void onLoadData(byte[] bytes) {
     // Use the pseudocode to set bytes data for the imageview
     //imageview.setBytes(bytes);
 }

 @Override
 public void onFailure(QCloudClientException clientException, QCloudServiceExceptio
```

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```
  }
});
```

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Basic Image Processing
Image Processing

Last updated：2024-03-04 10:30:23

Overview

CI provides the ResponsiveTransformation (auto processing) and CITransformation (custom processing) image processing methods.

Note:

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.

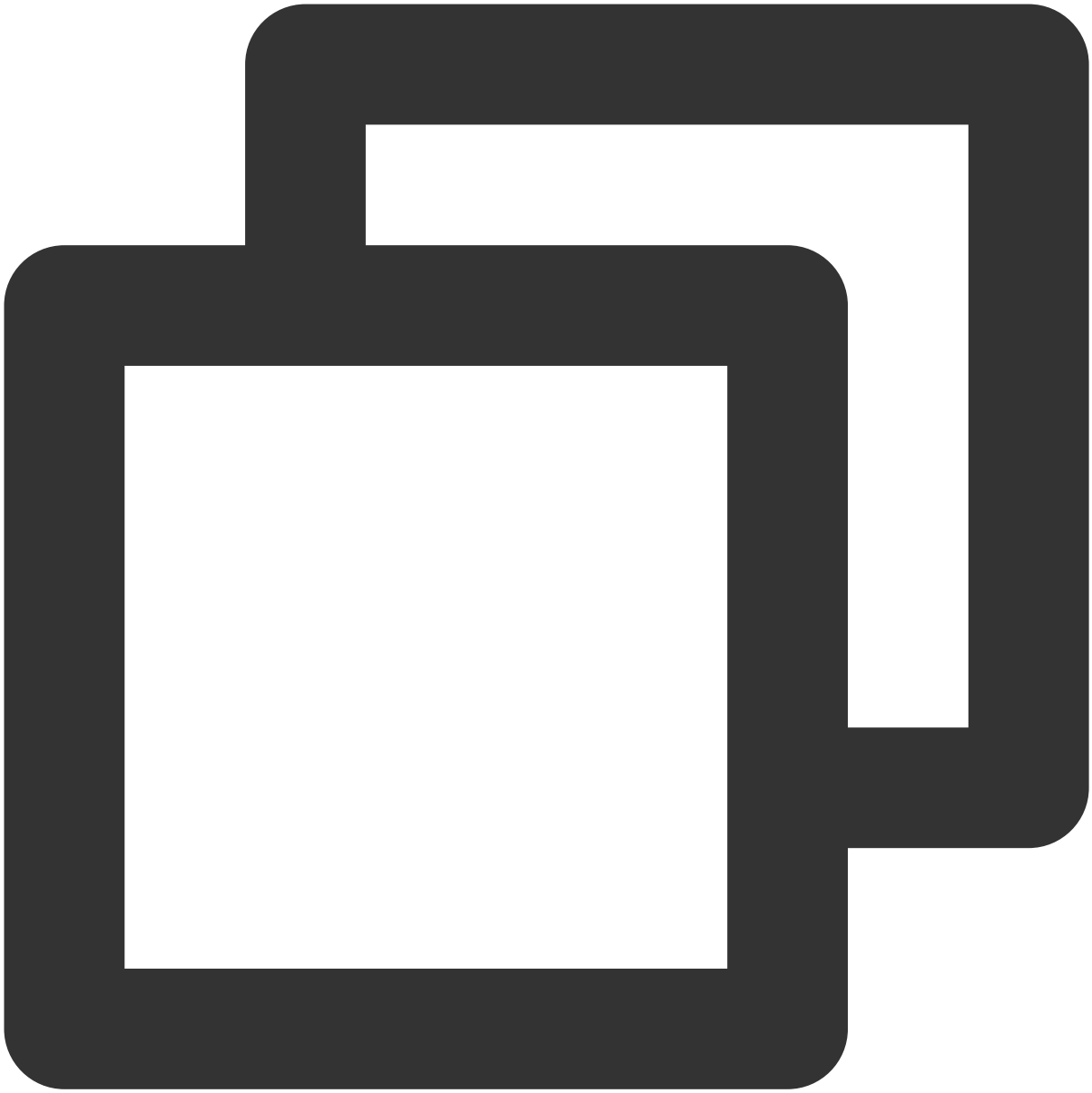
Number of frames (for animated images): For GIF, the number of frames cannot exceed 300.

ResponsiveTransformation

ResponsiveTransformation includes format conversion (converting formats according to OS versions) and scaling (scaling images according to the imageView control sizes and ScaleType) and is described as follows:

1. ResponsiveTransformation refers to processing images automatically.
2. Image sizes are automatically adjusted according to the imageView control sizes and ScaleType.
3. Images are automatically converted to the format most suitable for the OS version. For an OS earlier than Android 4.3, the original format is used. For Android 4.3 to 10.0, WebP is used. For Android 10.0 and later, HEIC is used.

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```
ResponsiveTransformation transformation = new ResponsiveTransformation(imageview);
```

CITransformation

The CITransformation class in the cloud-infinite SDK has encapsulated the following basic image processing features of CI:

Scaling

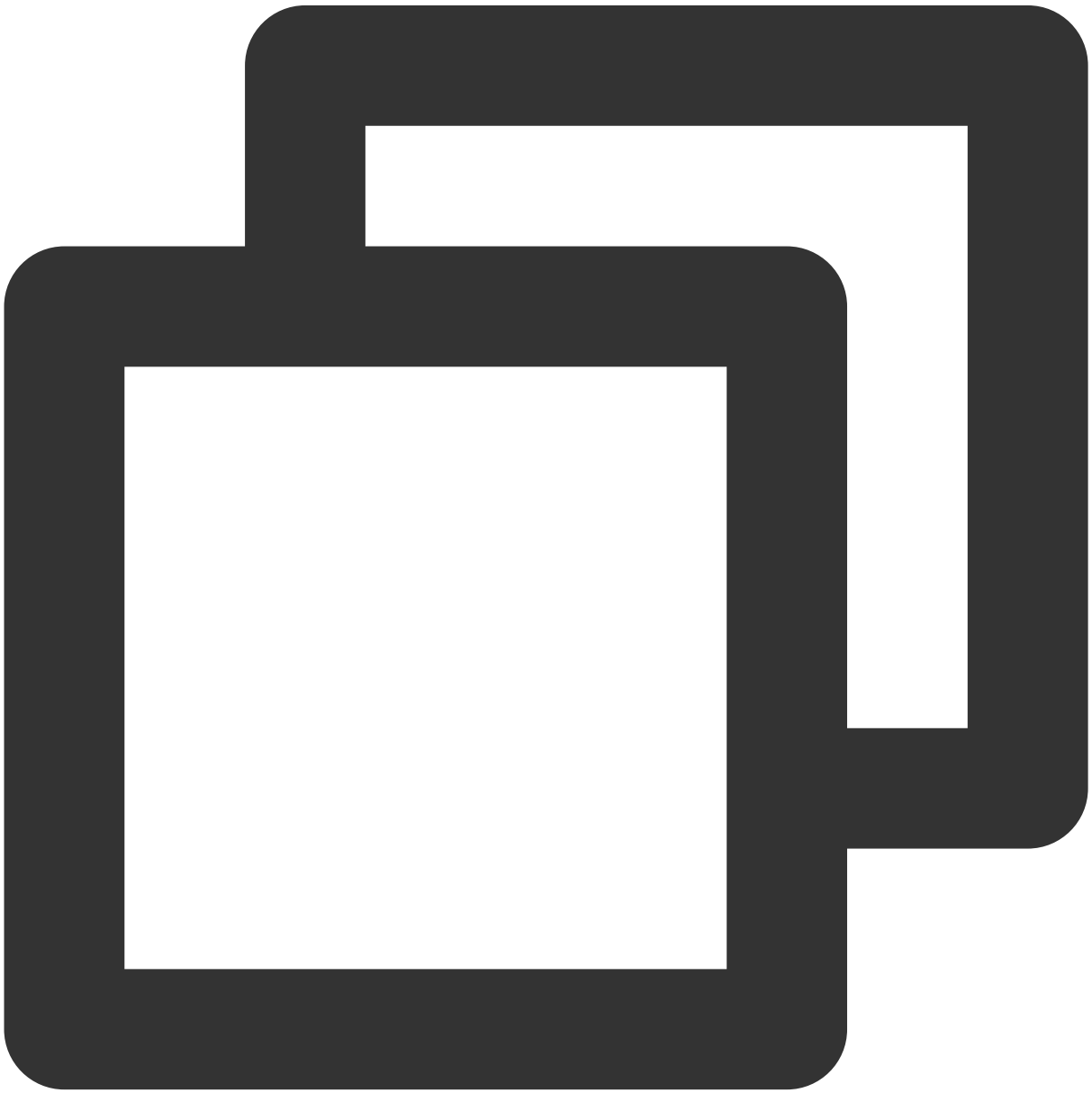
Cropping

Rotating

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Format Conversion
Quality Change
Gaussian Blurring
Sharpening
Watermarking
Removing Image Metadata
Combined Operations

Before using the basic image processing features of CI, instantiate the CITransformation class first as follows. Note that instantiation is required for all the operations described below.



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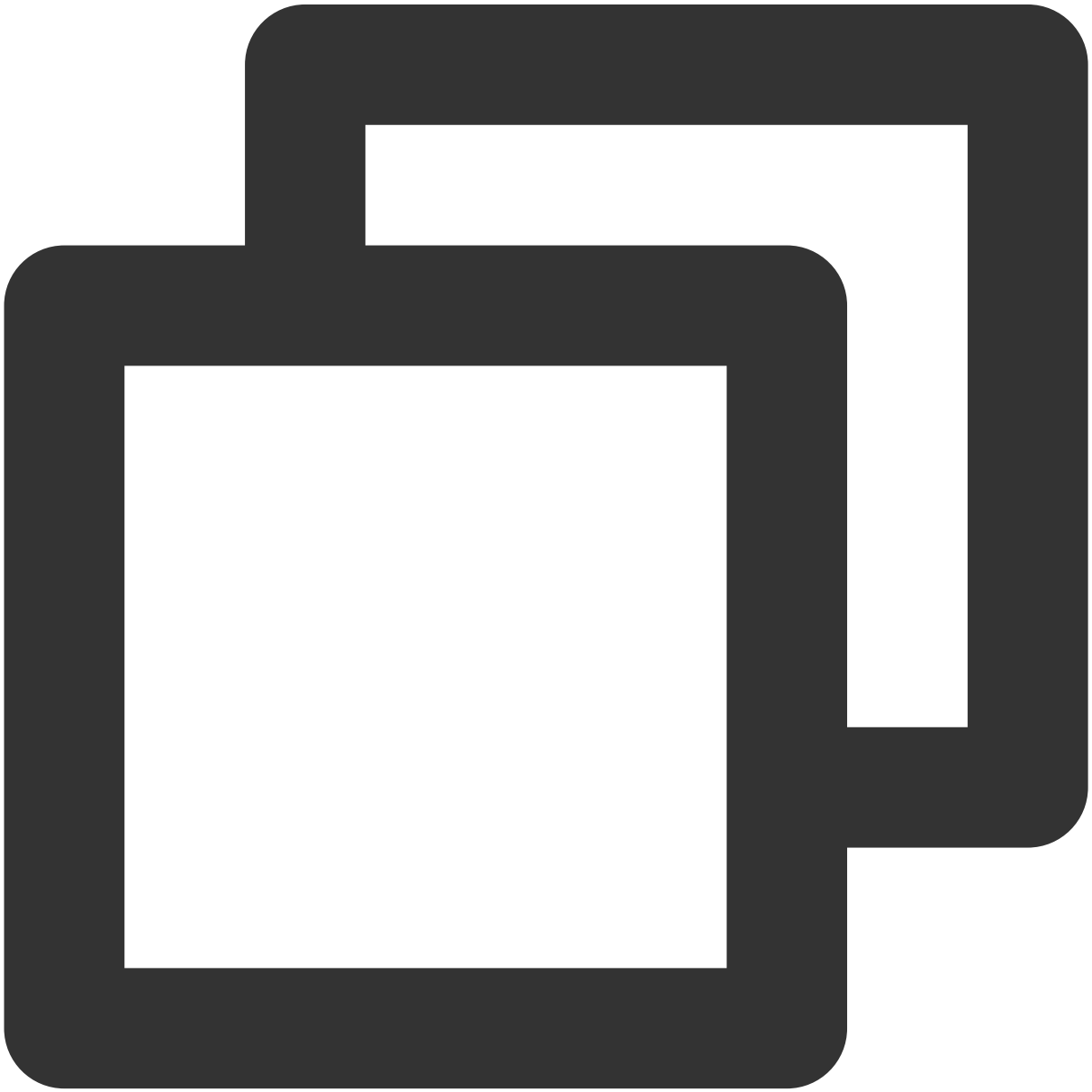
```
CITransformation transform = new CITransformation();
```

Scaling

Note:

For the API documentation, please see Scaling.

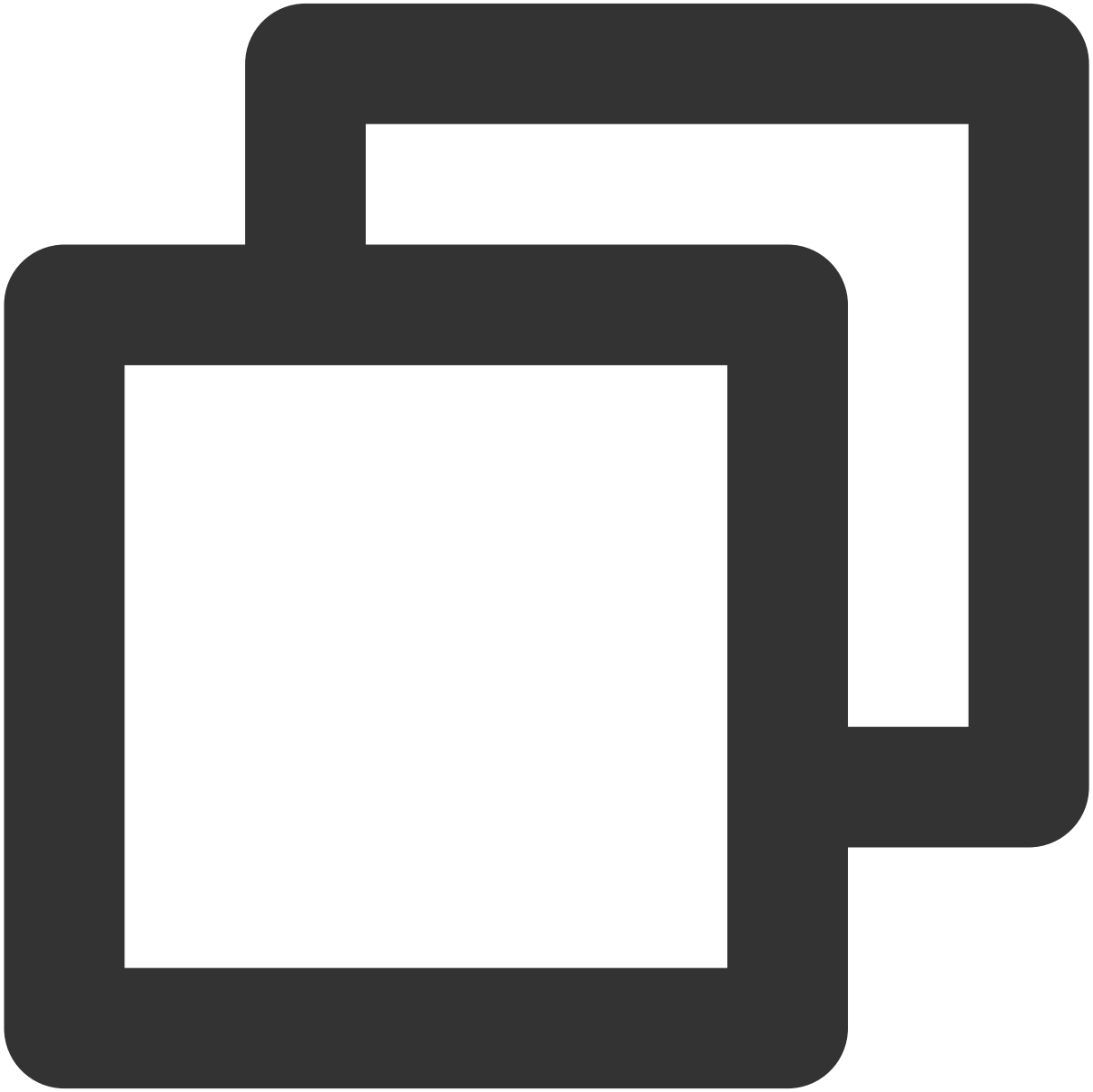
Scaling by percentage



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```
// Scale the image’s width to 50% without changing the height.
transform.thumbnailByWidthScale(50);
// Scale the image’s height to 50% without changing the width.
transform.thumbnailByHeightScale(50);
// Scale both the image’s width and height to 50%.
transform.thumbnailByScale(50);
```

Scaling with specified width and height



```
// Scale the image’s width to 50 with the height scaled automatically.
```

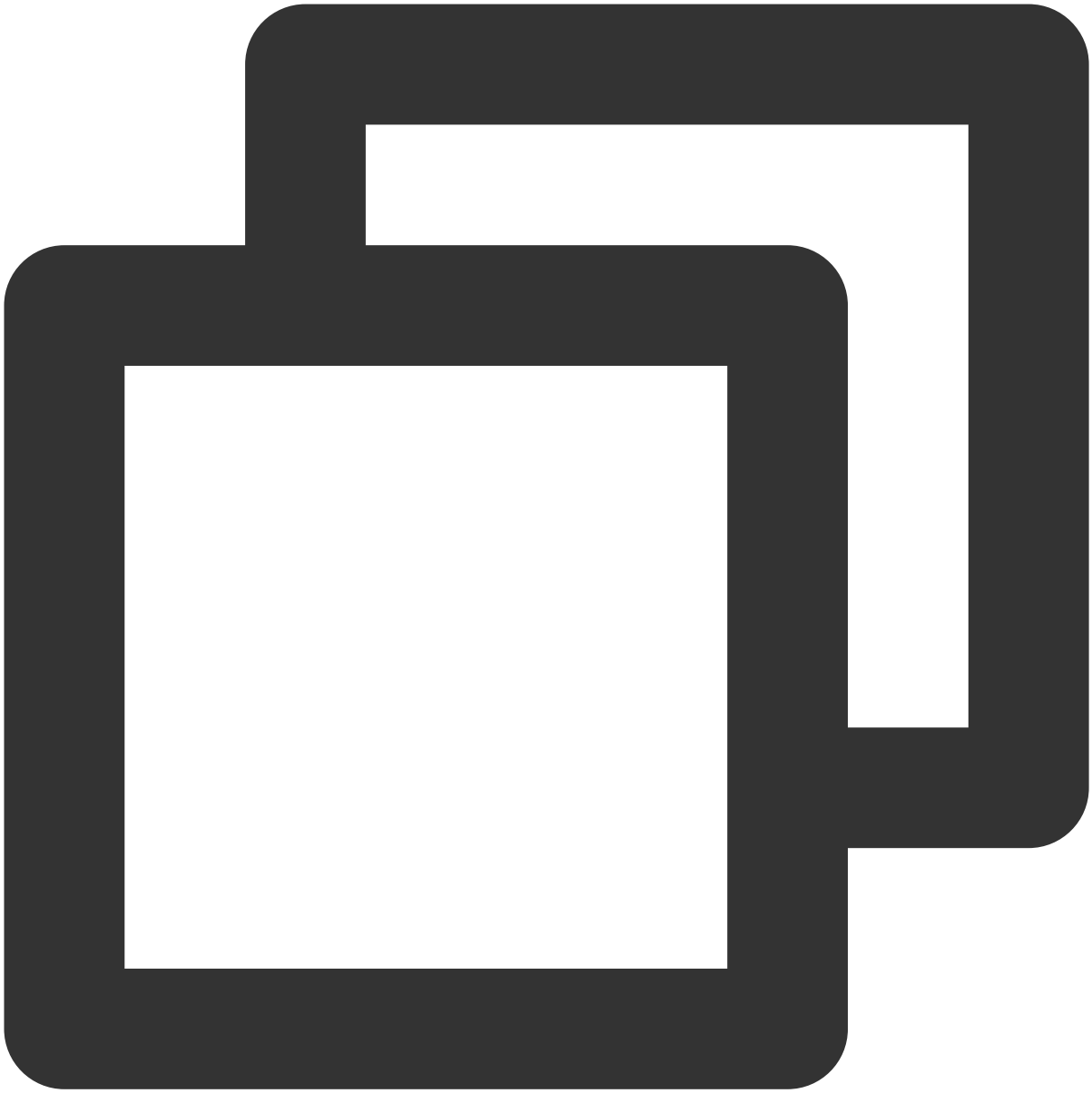
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```
transform.thumbnailByWidth(50);
// Scale the image’s height to 50 with the width scaled automatically.
transform.thumbnailByHeight(50);
// Set both the minimum width and height of the output image to 50 to scale the ima
transform.thumbnailByMinWH(50, 50);
// Set both the maximum width and height of the output image to 50 to scale the ima
transform.thumbnailByMaxWH(50, 50);
// Scale both the image’s width and height to 50 with the original aspect ratio ign
transform.thumbnailByWH(50, 50);
```

Proportional scaling

This feature scales images by limiting the resolution of the output image (the total number of pixels cannot exceed the specified value).

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```
// Scale the image proportionally by limiting the total number of pixels of the out
transform.thumbnailByPixel(1000);
```

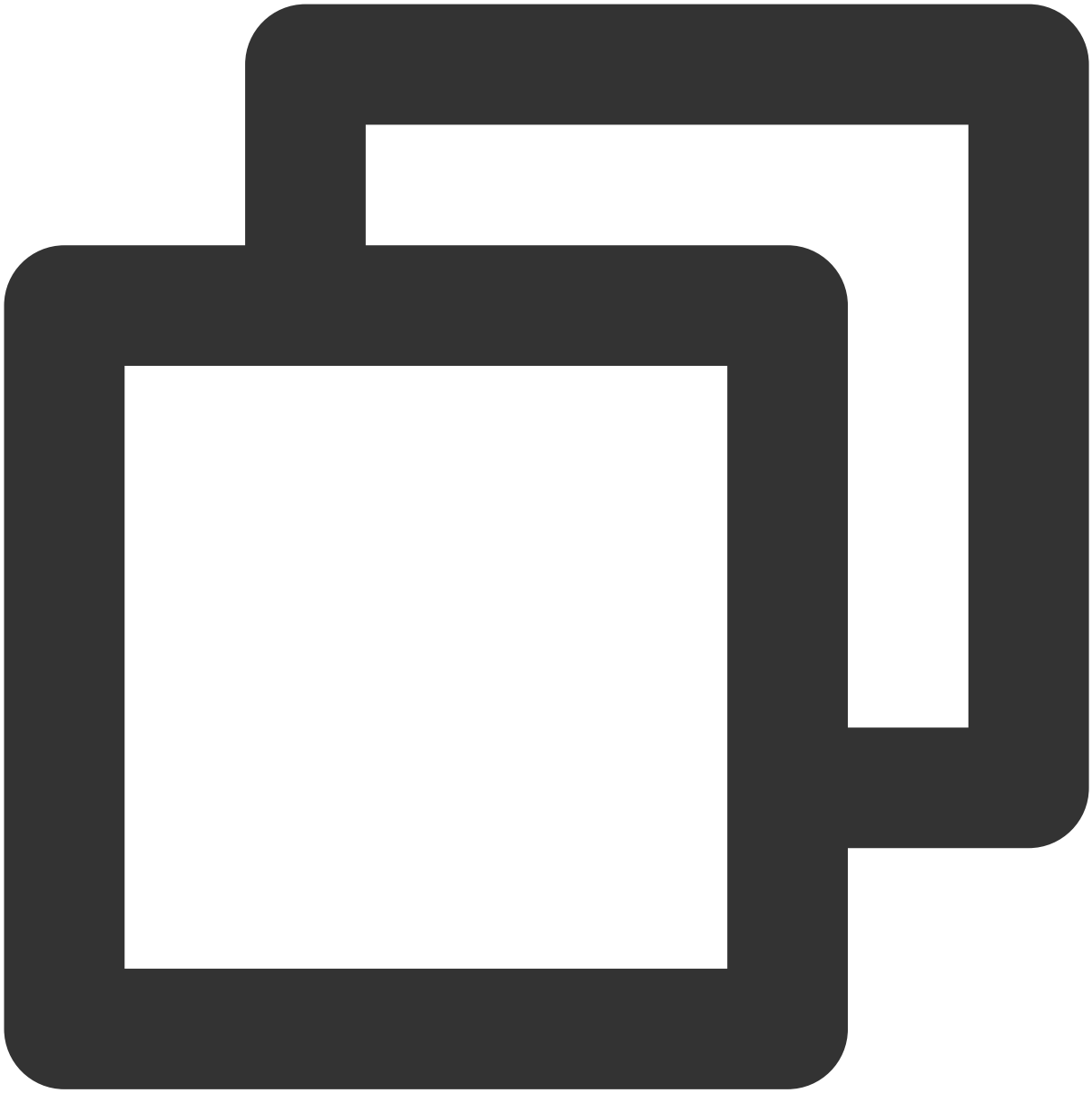
Cropping

Note:

For the API documentation, please see Cropping.

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Regular cropping

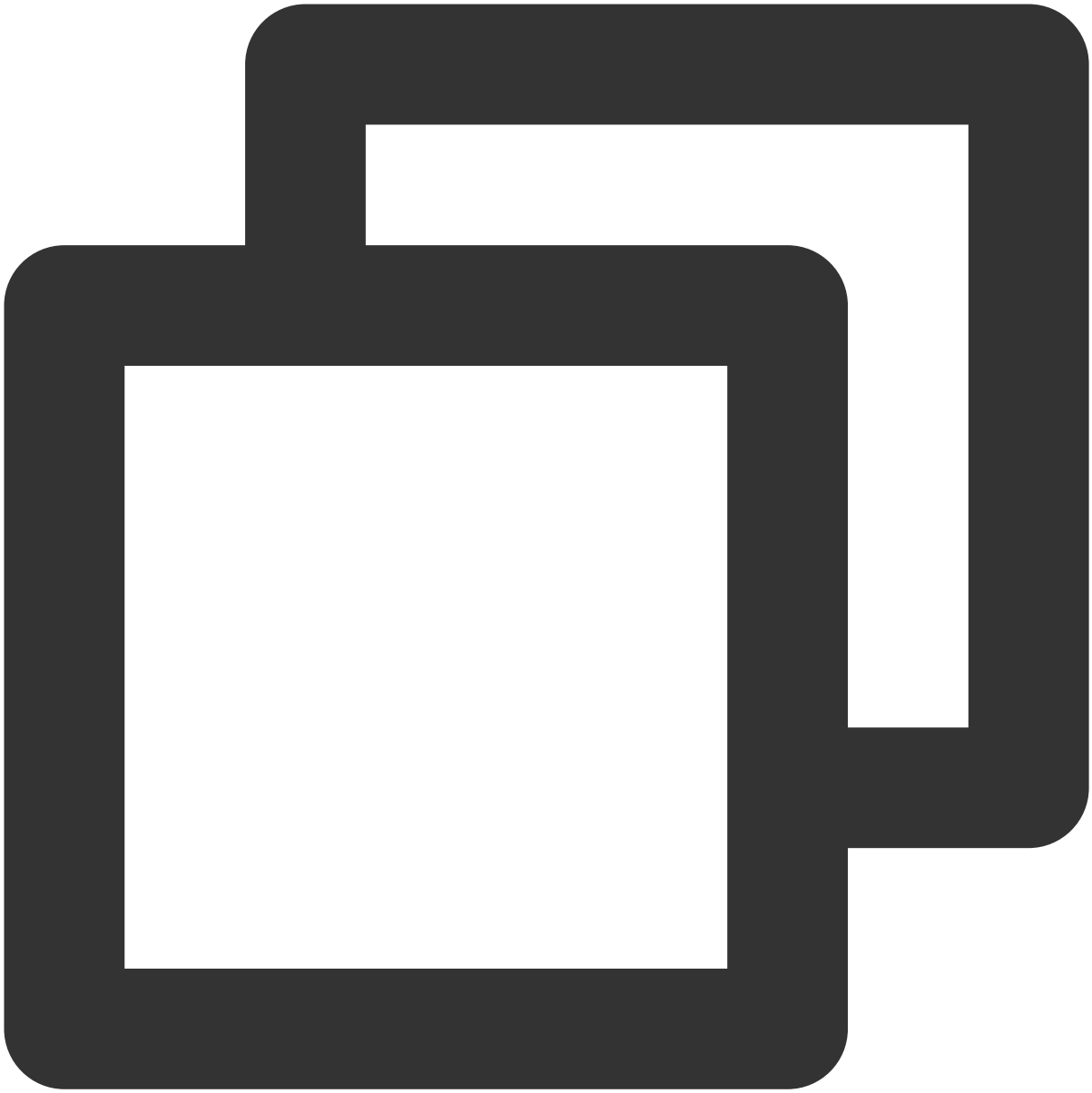


```
// Crop the image to the specified width and height (vertical and horizontal offset
transform.cut(100, 300, 30, 30);
```

Inscribed circle cropping

`radius` specifies the radius of the inscribed circle. The value of `radius` should be an integer greater than 0 but smaller than half the length of the input image's shorter side. The center of the inscribed circle is the center of the input image. This operation is not available for GIF images.

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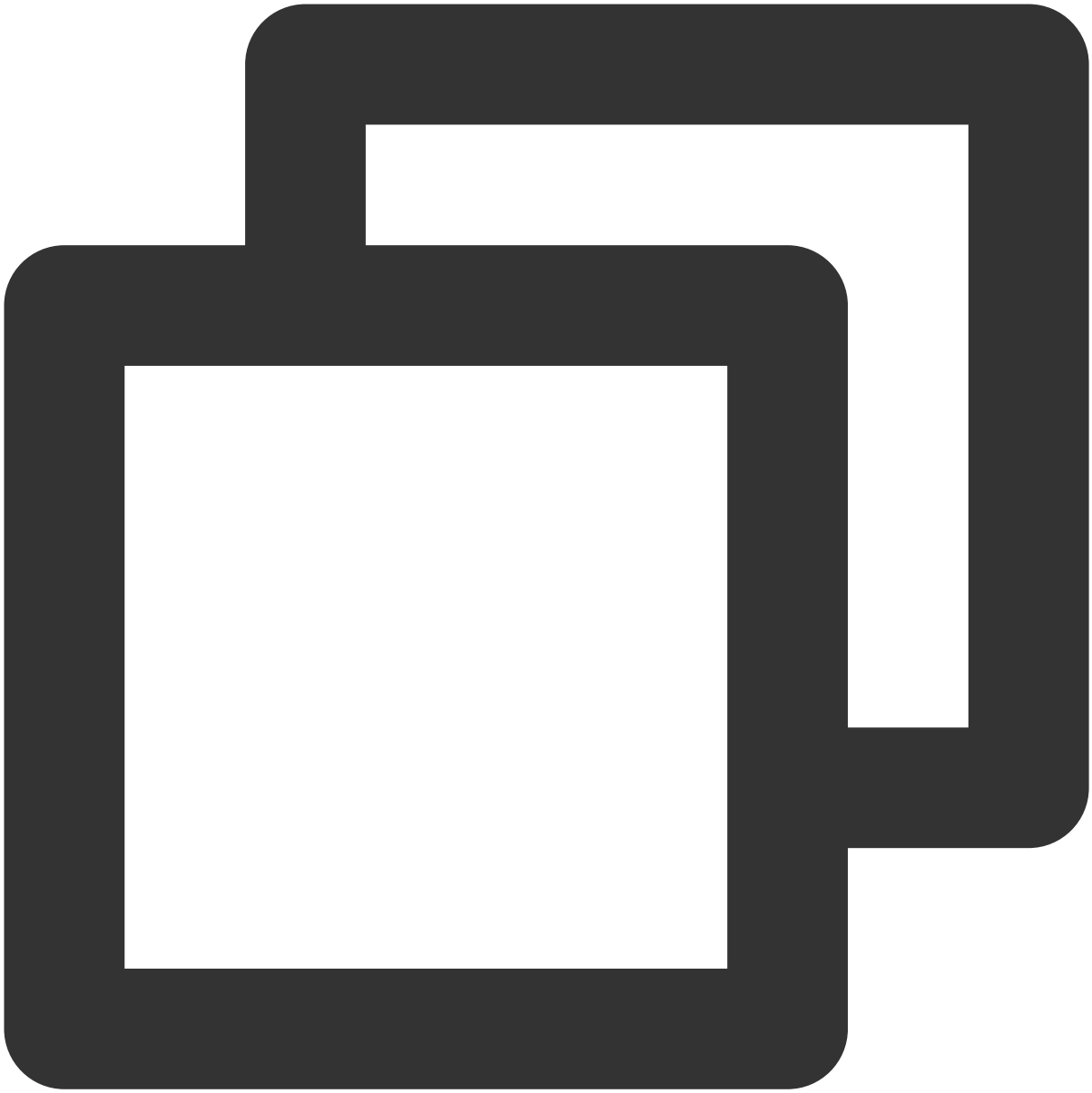


```
// Set the radius to 100.
transform.iradius(100);
```

Rounded corner cropping

`radius` specifies the radius of the rounded corners of an image. The value of `radius` should be an integer greater than 0 but smaller than half the length of the input image's shorter side. The two sides of the input image are the tangent lines of the rounded corner. This operation is not available for GIF images.

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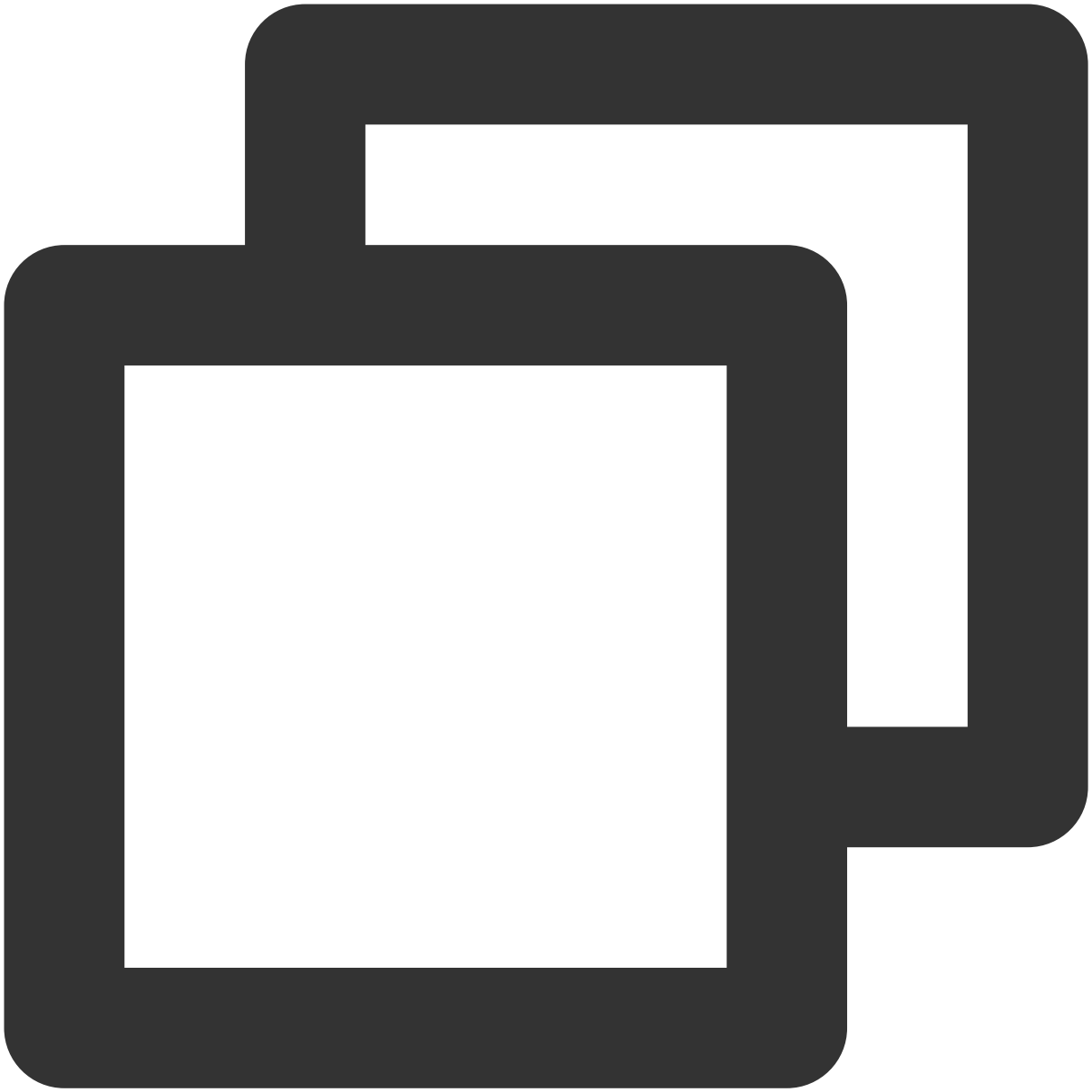
```
// Set the corner radius to 100.
transform.rradius(100);
```

Scaling and cropping

Note:

For more information about the 3x3 grid position diagram, please see gravity.

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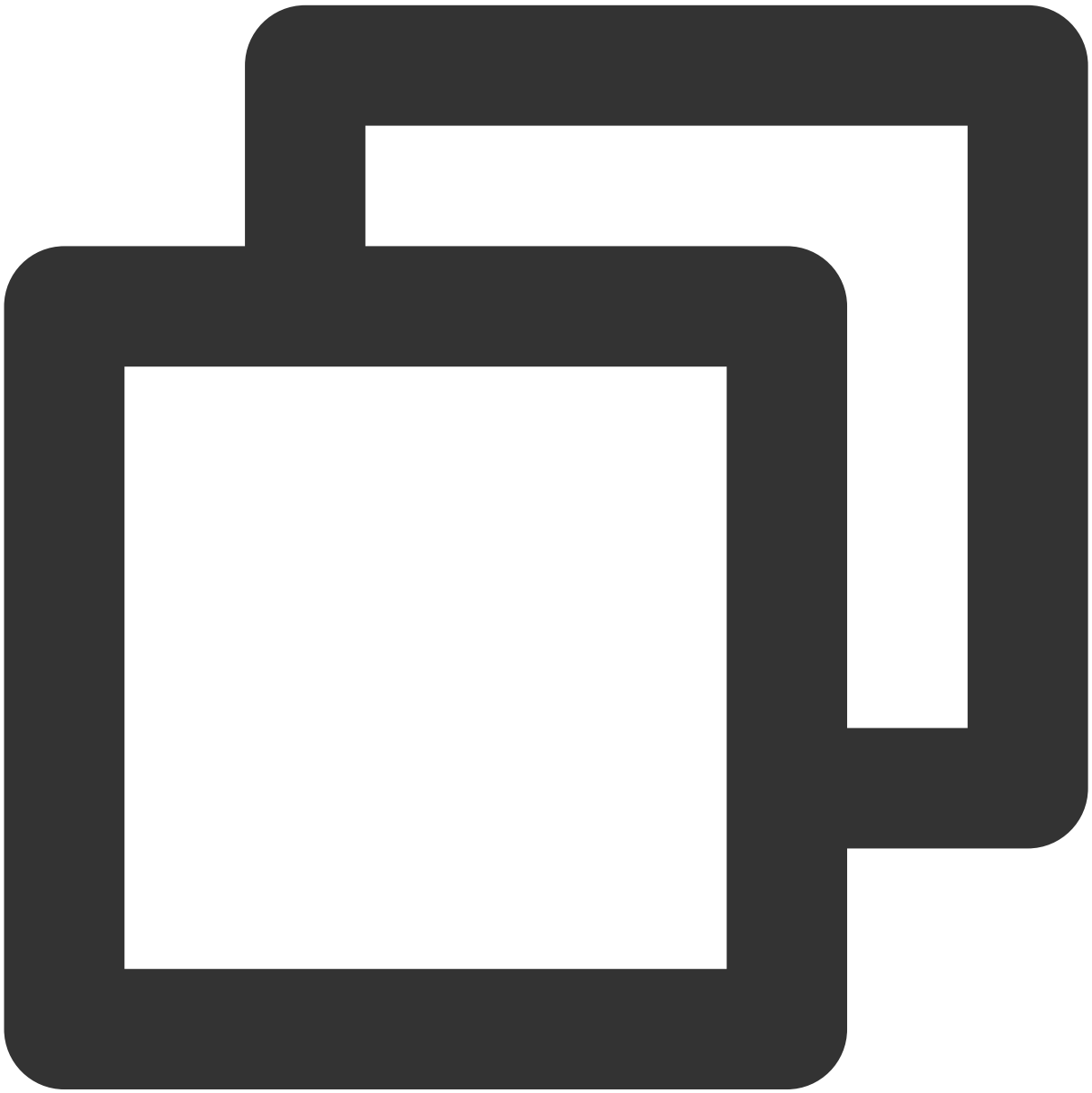
```
// Scale and crop the input image to the target width and height.
transform.cropByWH(100, 100);
// Scale and crop the input image to the target width and height with the reference
transform.cropByWH(100, 100, CIGravity.CENTER);
// Scale and crop the input image to the target width.
transform.cropByWidth(100);
// Scale and crop the input image to the target width with the reference point (CIG
transform.cropByWidth(100, CIGravity.CENTER);
// Scale and crop the input image to the target height.
transform.cropByHeight(100);
// Scale and crop the input image to the target height with the reference point (CI
```

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```
transform.cropByHeight(100, CIGravity.CENTER);
```

Smart cropping

Scale and crop an image based on the face position in the image. The width and height of the target image are specified by `Width` and `Height` respectively.



```
// Crop the face from the image and scale both the width and height to 100.
transform.scrop(100, 100);
```

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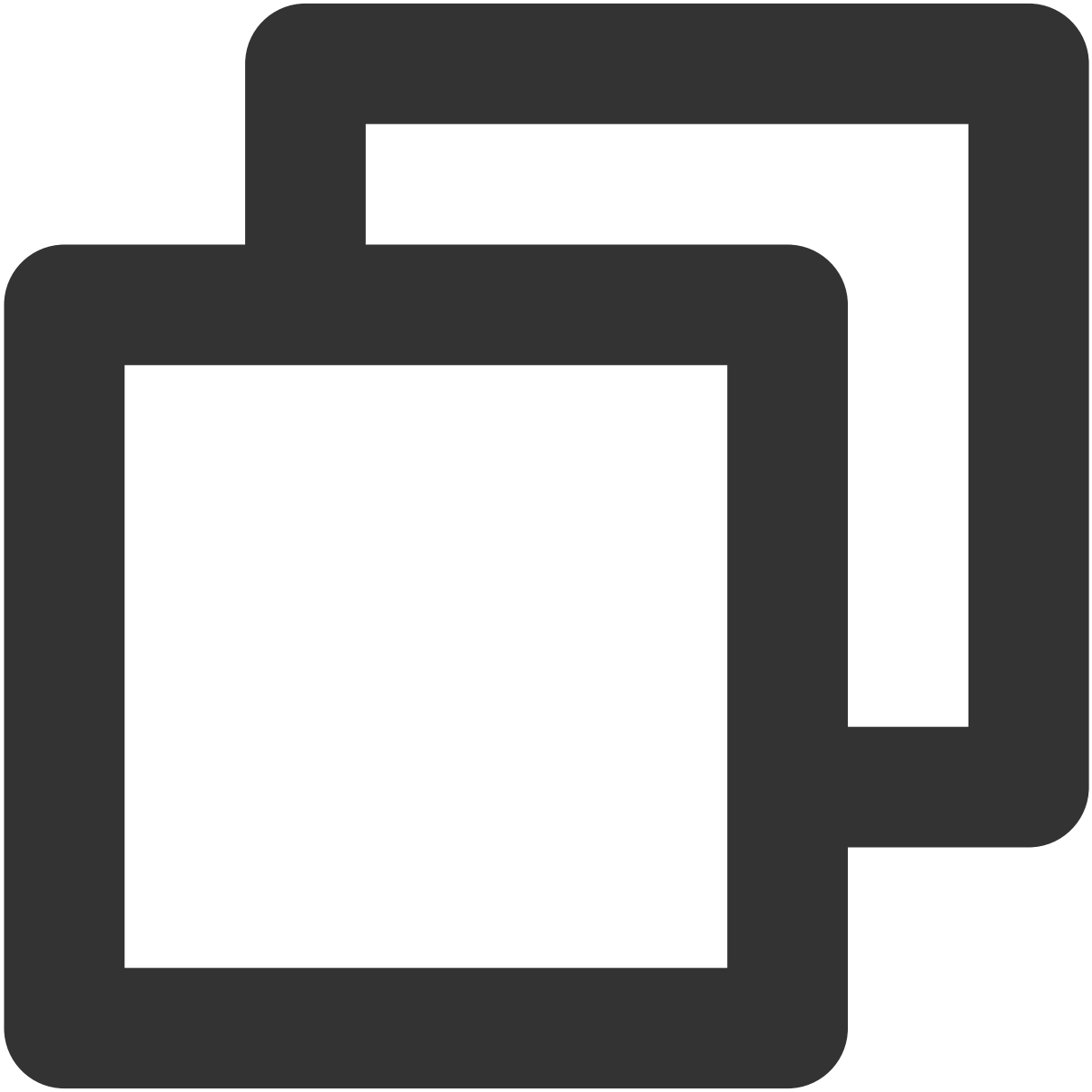
Rotating

Note:

For the API documentation, please see Rotating.

Rotating an image by a specified angle

Rotate an image clockwise by a specified angle (0–360 degrees). By default, the image is not rotated.

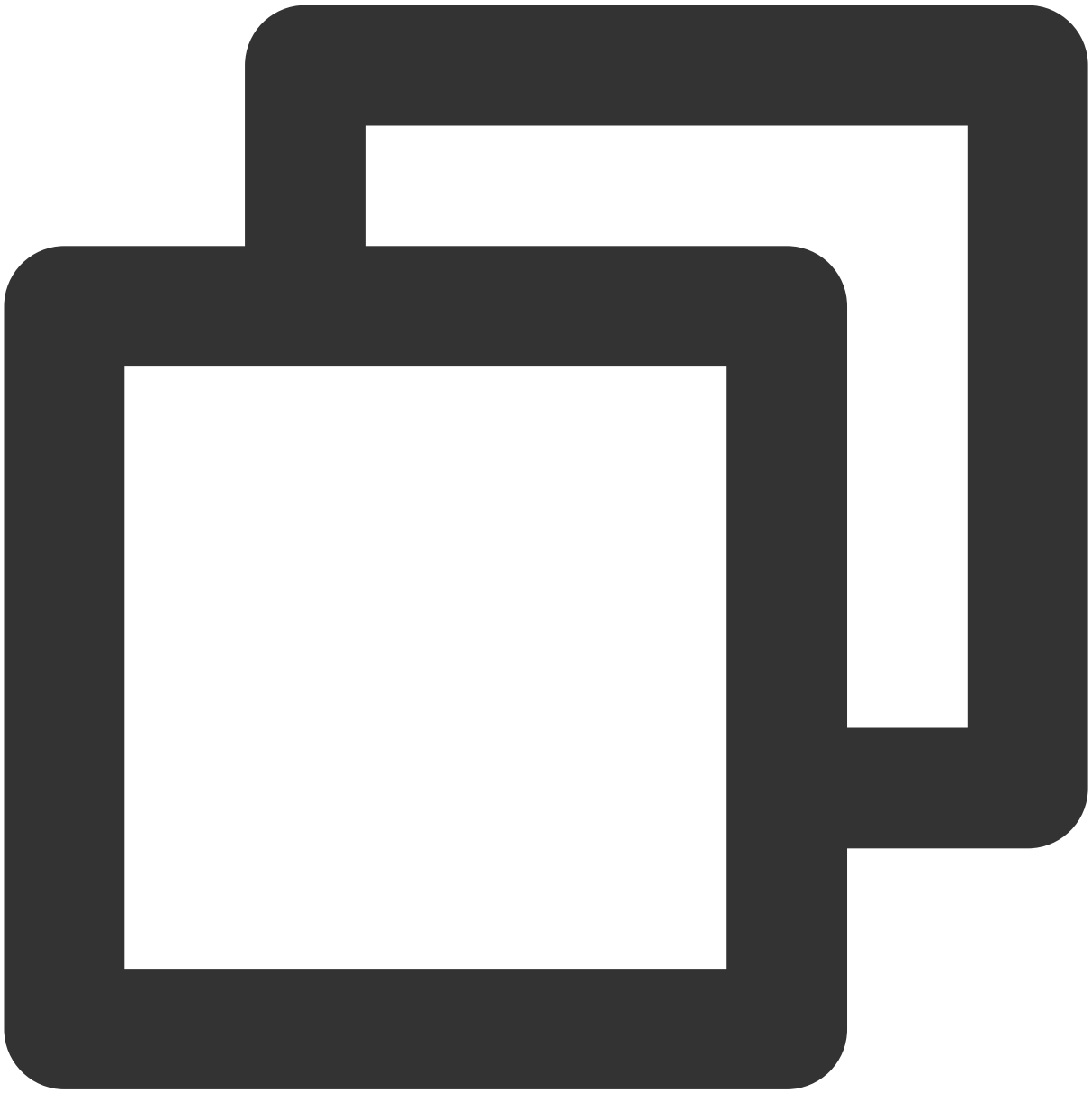


```
// Rotate the image by 45 degrees.
transform.rotate(45);
```

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Rotating an image automatically

Rotate an image automatically according to the EXIF data of the input image.



```
transform.rotate();
```

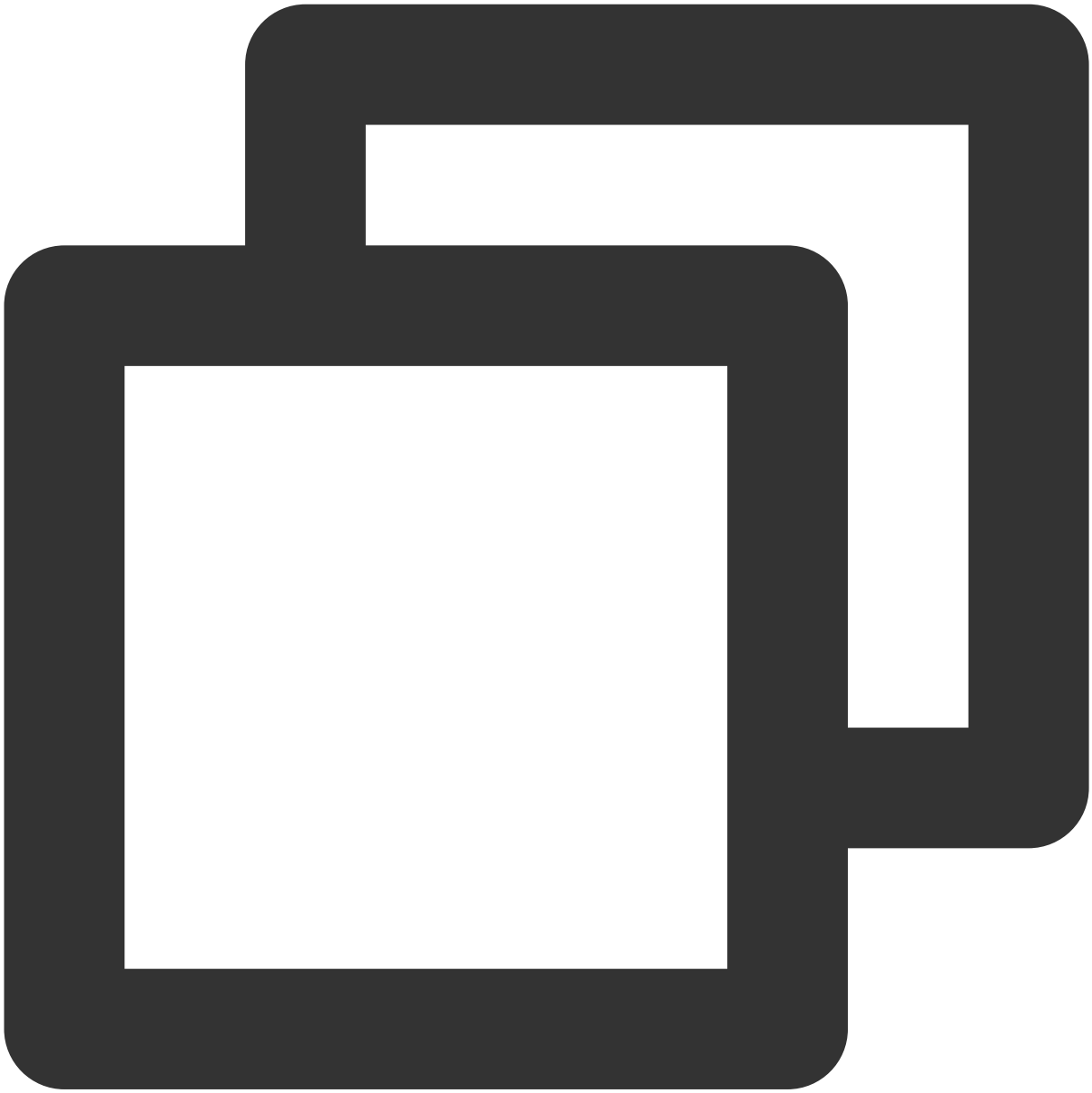
Format Conversion

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Note:

For the API documentation, please see Converting Format.

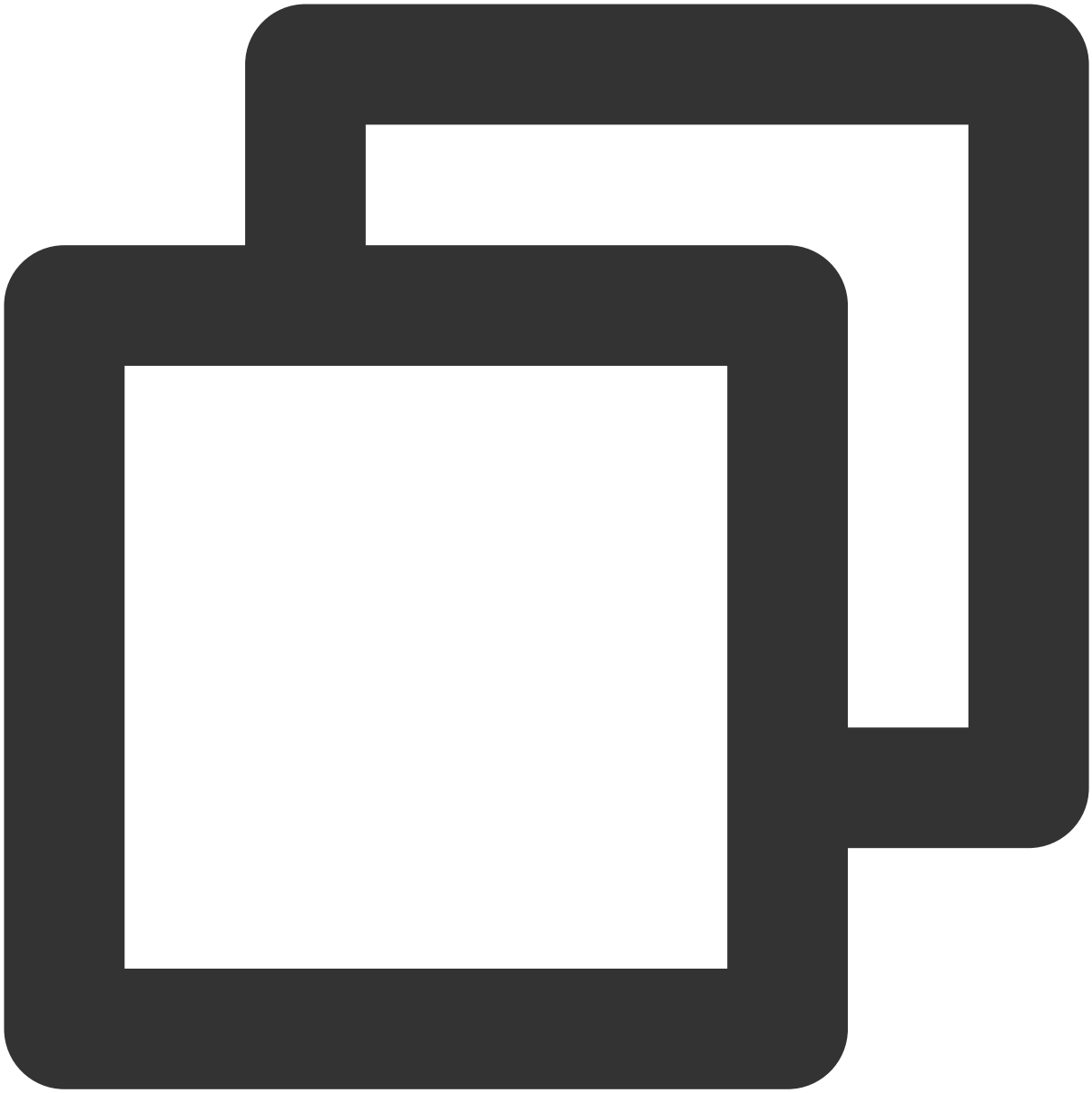
The target format can be TPG, JPG, BMP, GIF, PNG, HEIC, YJPEG (optimized by CI based on JPEG and is essentially JPG), and more. By default, the image format is not converted.



```
// Convert an image into JPEG.
 transform.format(CIImageFormat.JPEG, CIImageLoadOptions.LoadTypeUrlFooter);
```

CIImageLoadOptions

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```
// Loading option 1: Include the accept header (accept:image/xxx).
LoadTypeAcceptHeader,

// Loading option 2: Append imageMogr2/format/xxx to the URL.
LoadTypeUrlFooter,
```

Note:

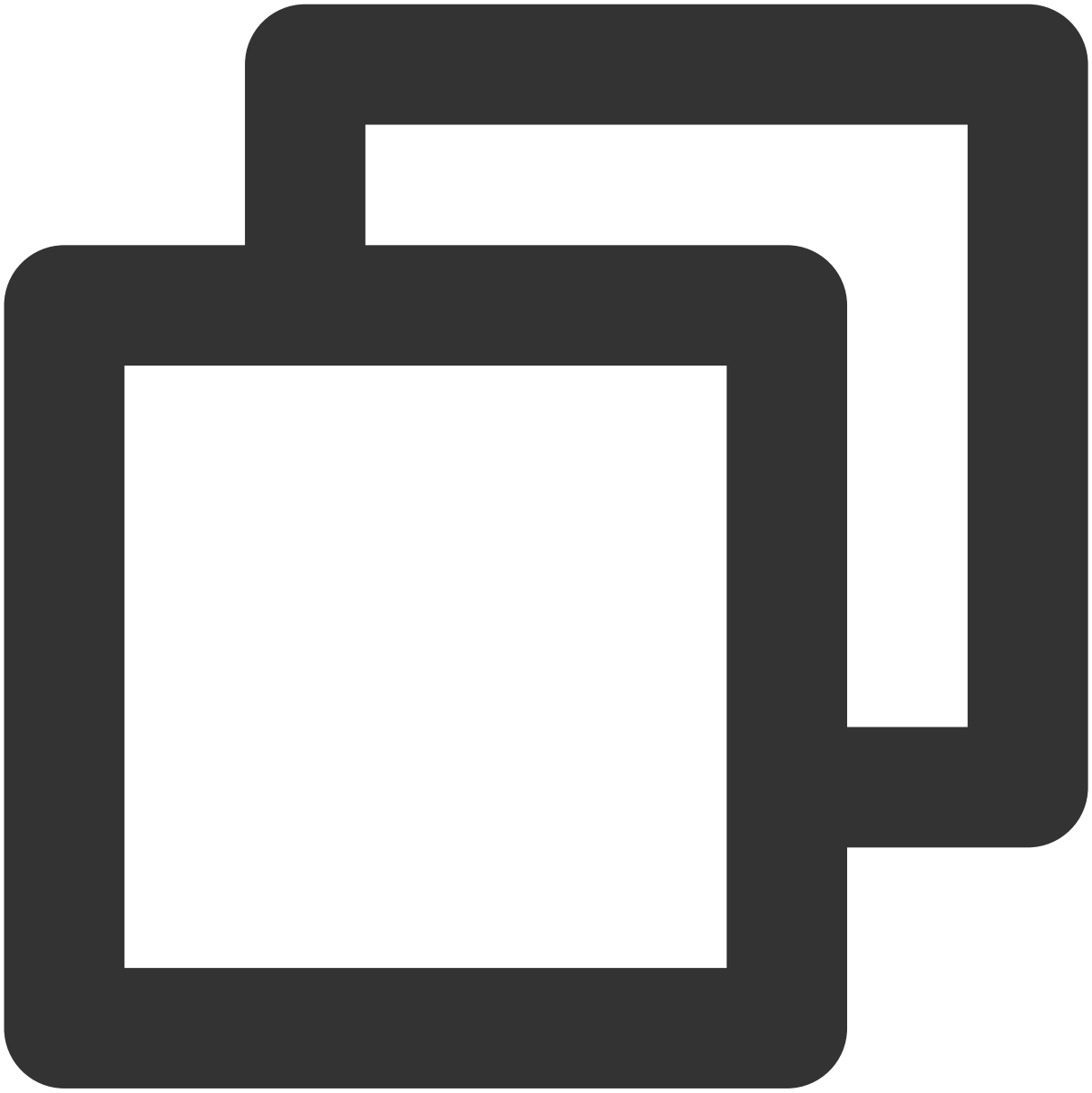
To use the WebP format, ensure the version is Android 4.3 or later.

To use the HEIC format, ensure the version is Android 10 or later.

Converting GIF into HEIF is not supported.

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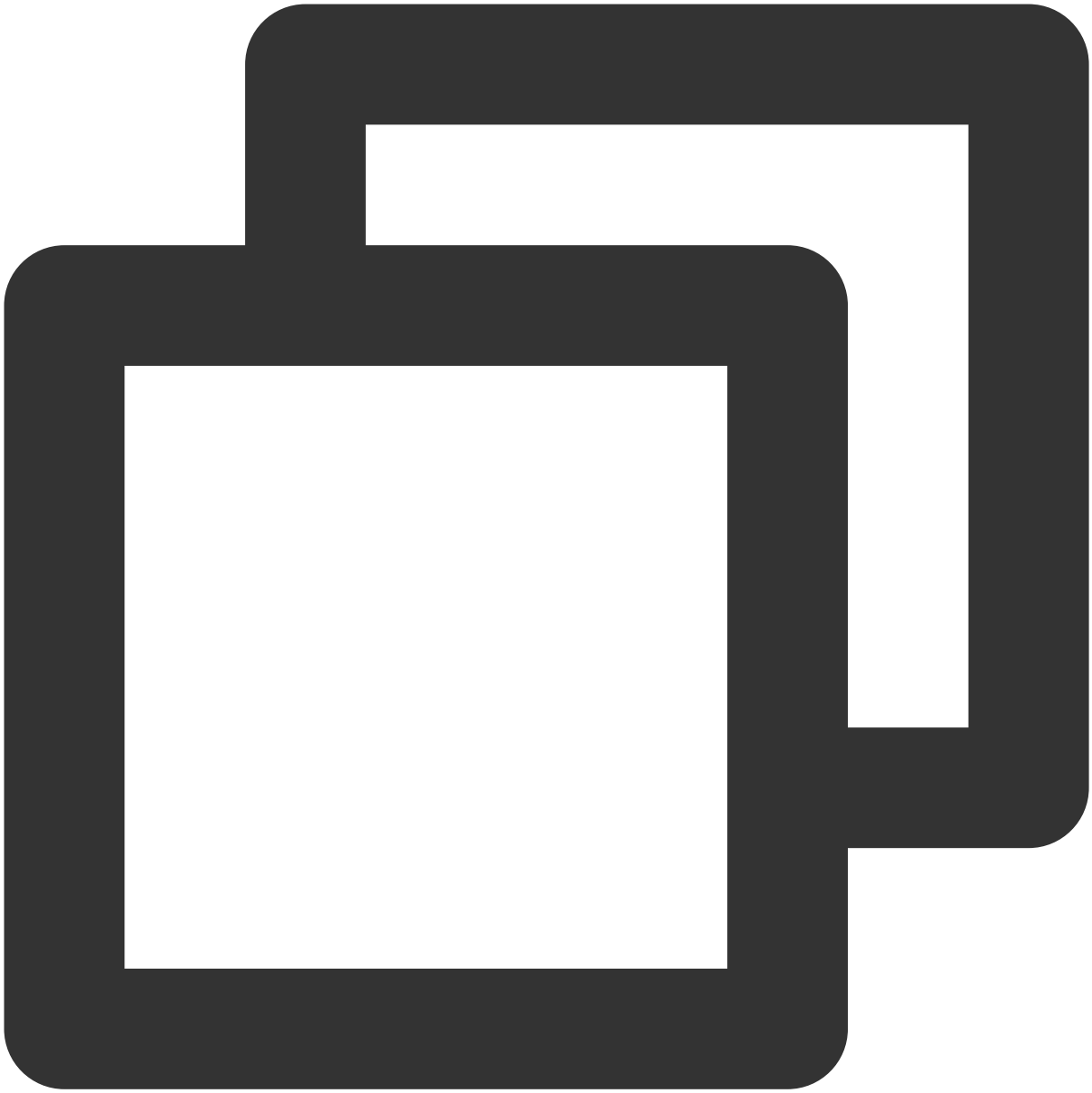
If you pass in parameters using `LoadTypeAcceptHeader` and have specified other image processing rules, the header will not take effect. Instead, the SDK will use footer automatically.
To convert an image into TPG format, the TPG SDK is needed as follows:



```
    implementation 'com.tencent.qcloud:tpg:1.3.1'
```

When installing TPG, the .so libraries will be included automatically. You are advised to use the “abiFilter” configuration of the NDK in the module’s `build.gradle` file to set the .so library frameworks that are supported.

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```
defaultConfig {
    ndk {
       // Set the .so library frameworks that are supported.
        abiFilters 'armeabi' //, 'x86', 'armeabi-v7a', 'x86_64', 'arm64-v8a'
    }
}
```

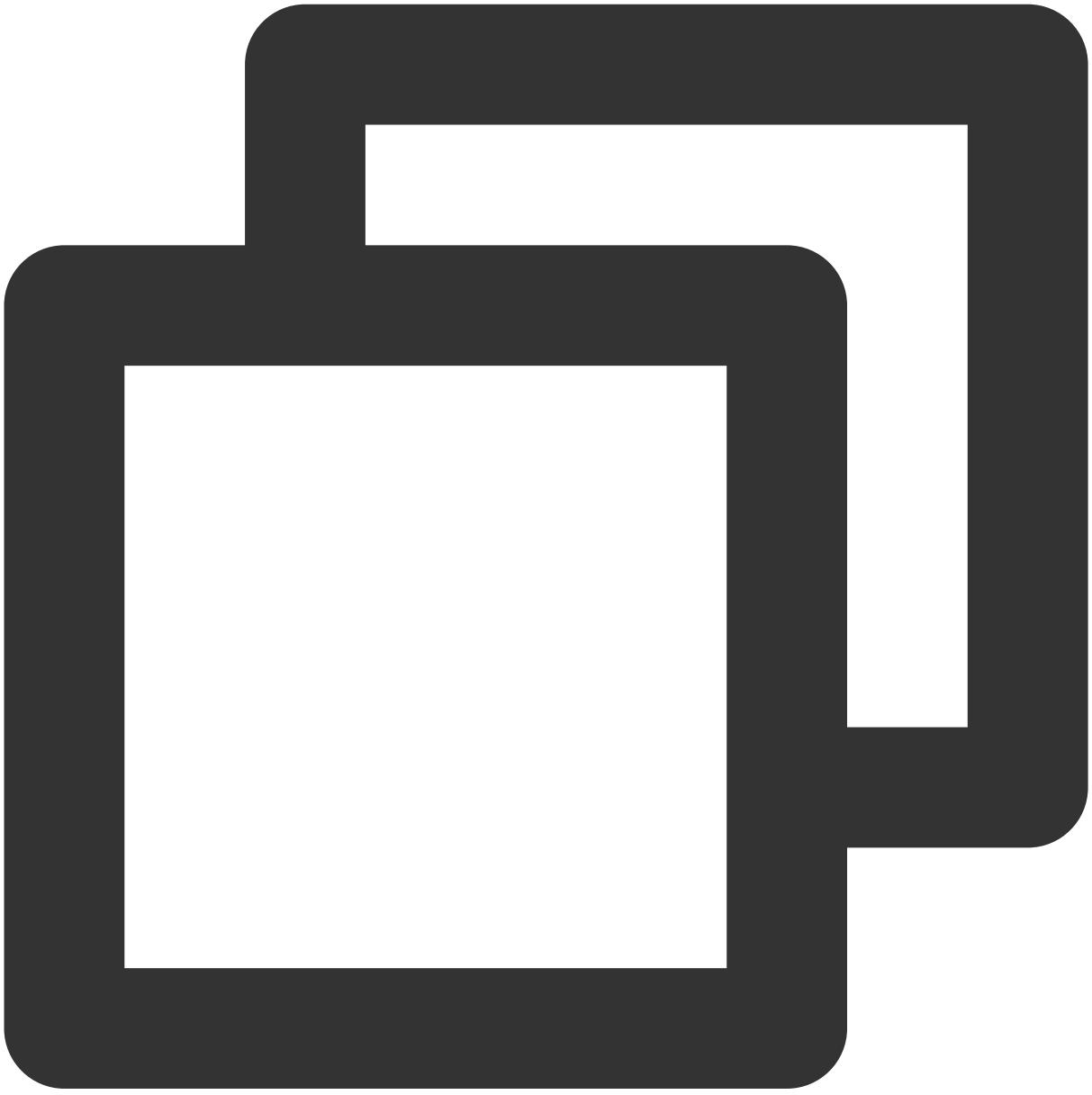
GIF optimization

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This feature only optimizes GIF images to reduce frames and image colors.

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.

FrameNumber=(1,100]: compresses the image to the specified number of frames (`FrameNumber`).

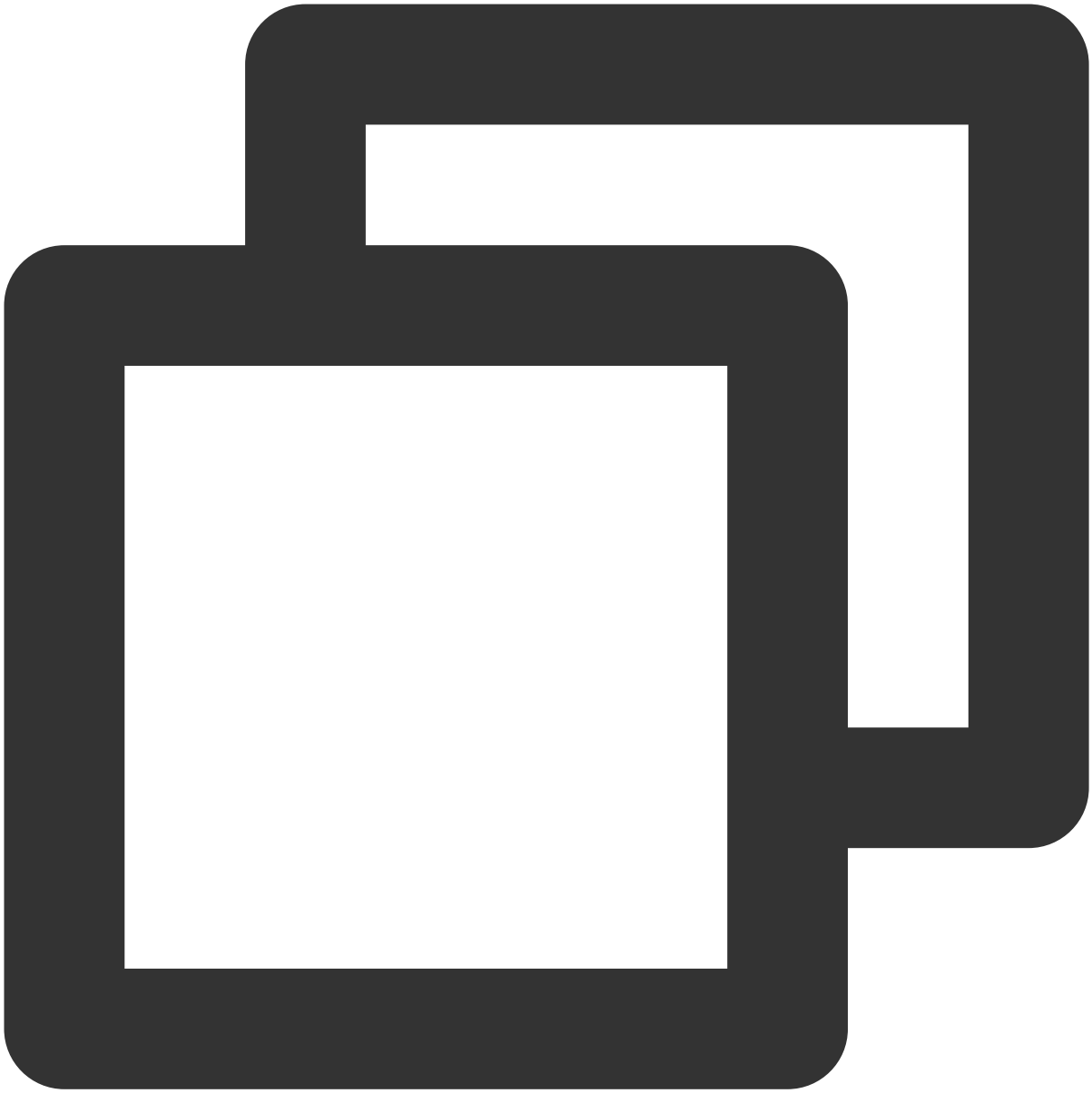


```
transform.gifOptimization(50);
```

Progressive mode of the output JPG image

This operation is only available if the output format is JPG. Otherwise, this operation will be ignored.

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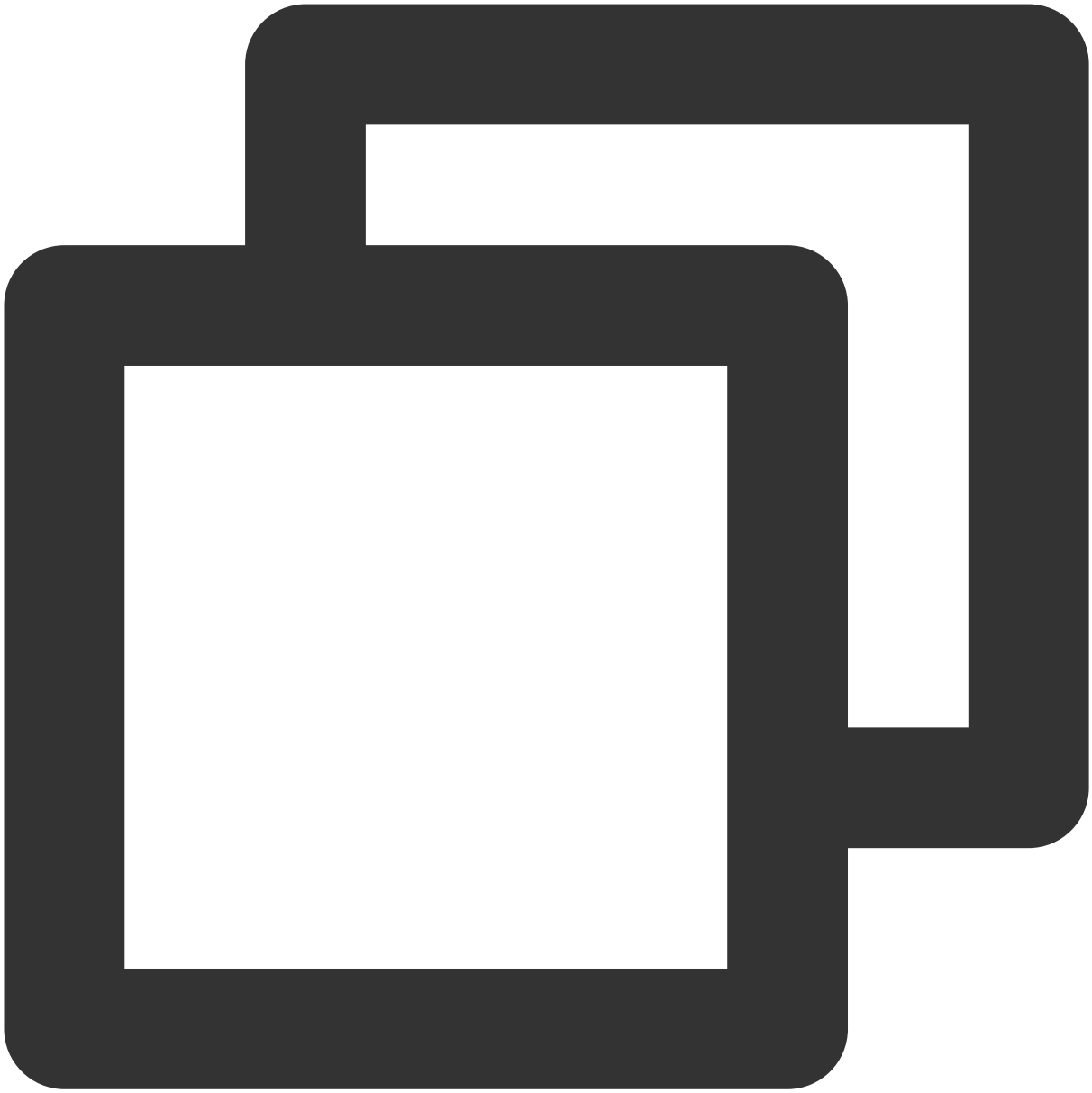


```
transform.jpegInterlaceMode(true);
```

Quality Change

CI supports three modes (absolute, relative, and lowest quality) to change the quality of an image. For the API documentation, please see Quality Change.

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```
// Set the absolute quality of the image. Value range: 0-100. By default, the small
transform.quality(90);
// Set 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
// If the input image quality is 60 and `lquality` is set to 80, the quality of the
transform.lowestQuality(90);
// Set the relative quality of the image, relative to that of the input image. Valu
transform.relativelyQuality(80);
```

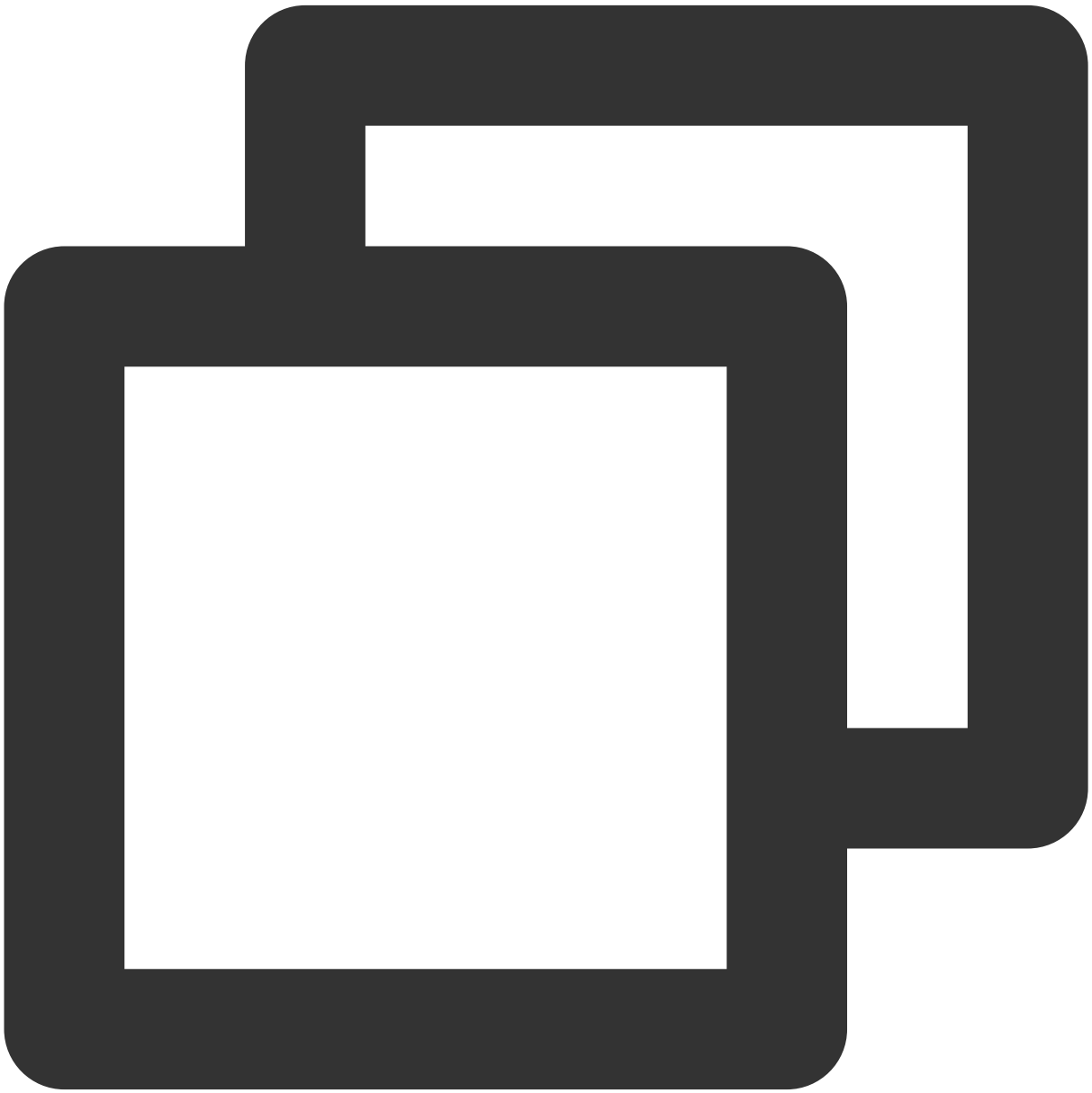
Note:

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This operation is only available for JPG and WebP images.

Gaussian Blurring

Gaussian blurring supports a blur radius ranging from 1 to 50, and the standard deviation of the normal distribution must be greater than 0. For the API documentation, please see Gaussian Blurring.



```
// Set the blur radius to 20 and the standard deviation of the normal distribution
transform.blur(20, 20);
```

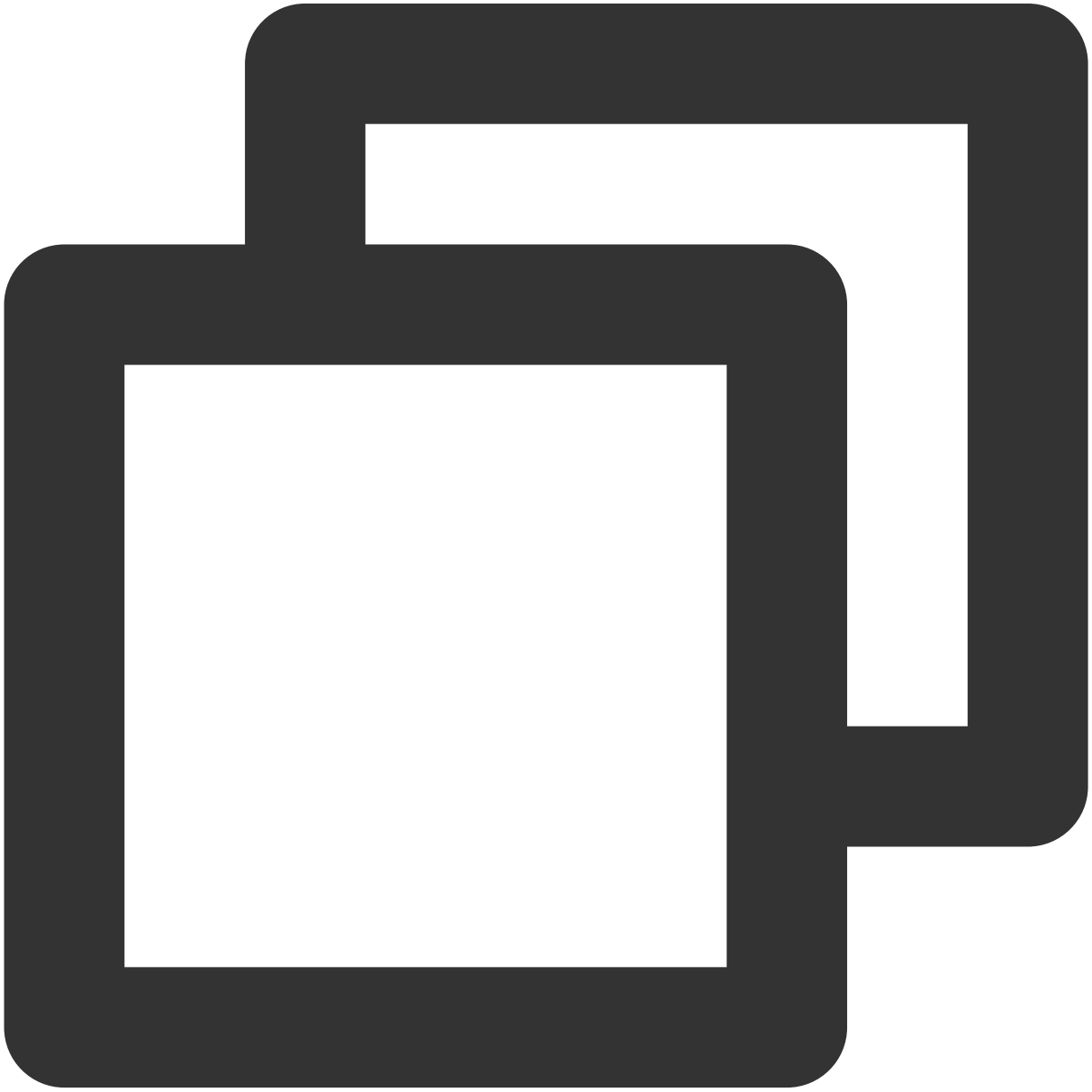
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Note:

This operation is not available for GIF images.

Sharpening

The sharpening value can be an integer ranging from 10 to 300 (70 is recommended). The greater the value, the more obvious the sharpening. For the API documentation, please see Sharpening.



```
// Set the sharpening value to 70.
```

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```
transform.sharpen(70);
```

Watermarking

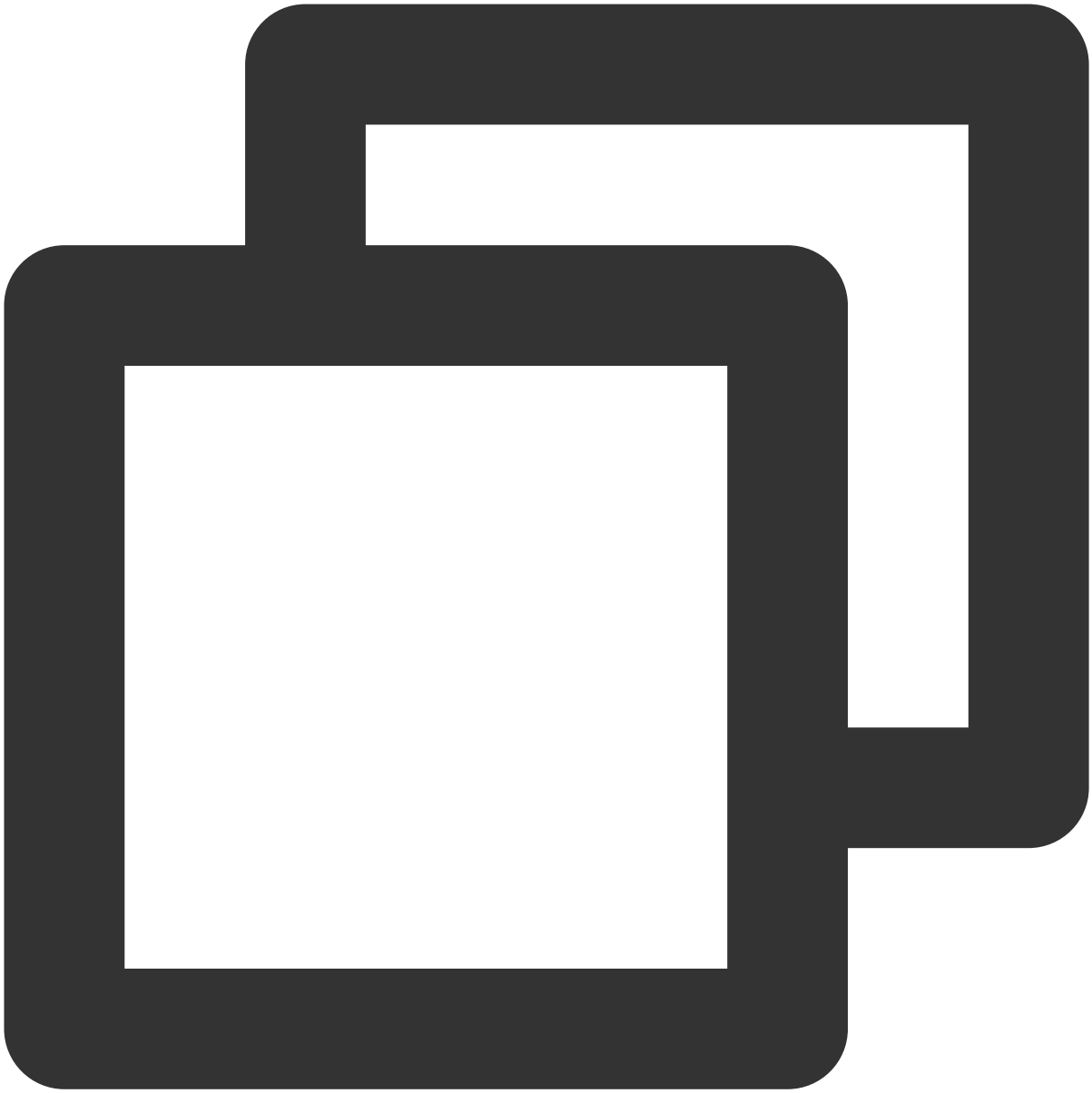
Note:

For the API documentation, please see Image Watermarking and Text Watermarking.

For more information about the 3x3 grid position diagram, please see gravity.

Image watermark

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```
WatermarkImageTransform watermarkImageTransform = new WatermarkImageTransform
        // Set the URL of the image watermark.
        .Builder(imageurl)
        // Set the reference point in the 3x3 grid position diagram.
        .setGravity(CIGravity.CENTER)
        // Set the adaptation mode for an image watermark that is larger than the i
        .setBlogo(1)
        // Set the horizontal offset.
        .setDistanceX(10)
        // Set the vertical offset.
        .setDistanceY(10)
```

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```
            .builder();
    transform.watermarkImage(watermarkImageTransform);
```

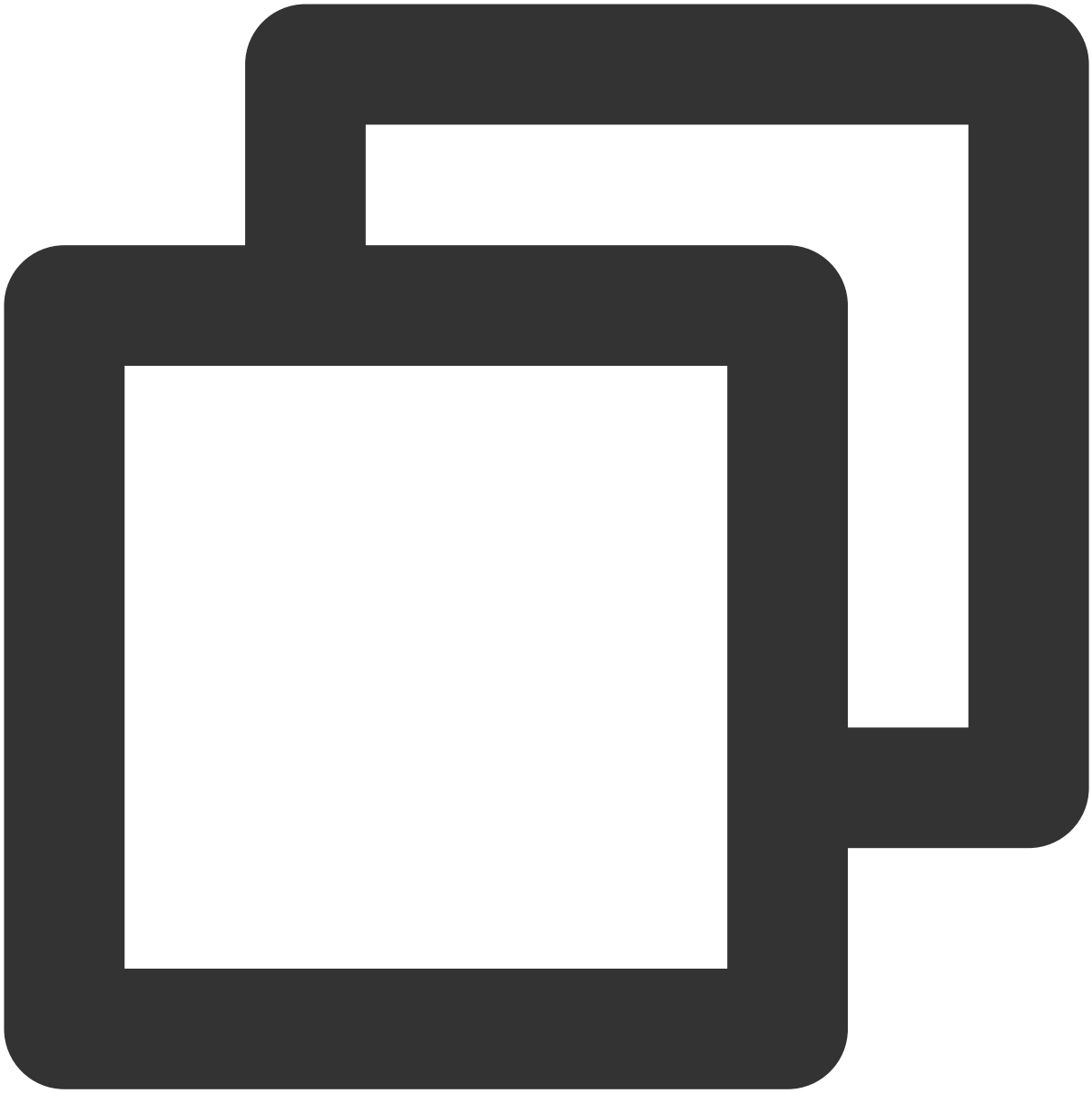
Note:

An image watermark must:

1. Be stored in the same bucket as the input image.
2. 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.
3. 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.

Text watermark

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```
WatermarkTextTransform watermarkImageTransform = new WatermarkTextTransform
        // Set the watermark text.
        .Builder("Watermark")
        // Set the reference point in the 3x3 grid position diagram.
        .setGravity(CIGravity.CENTER)
        // Set the font.
        .setFont("tahoma.ttf")
        // Set the font size.
        .setFontSize(13)
        // Set the text color.
        .setFill("#FF0000")
```

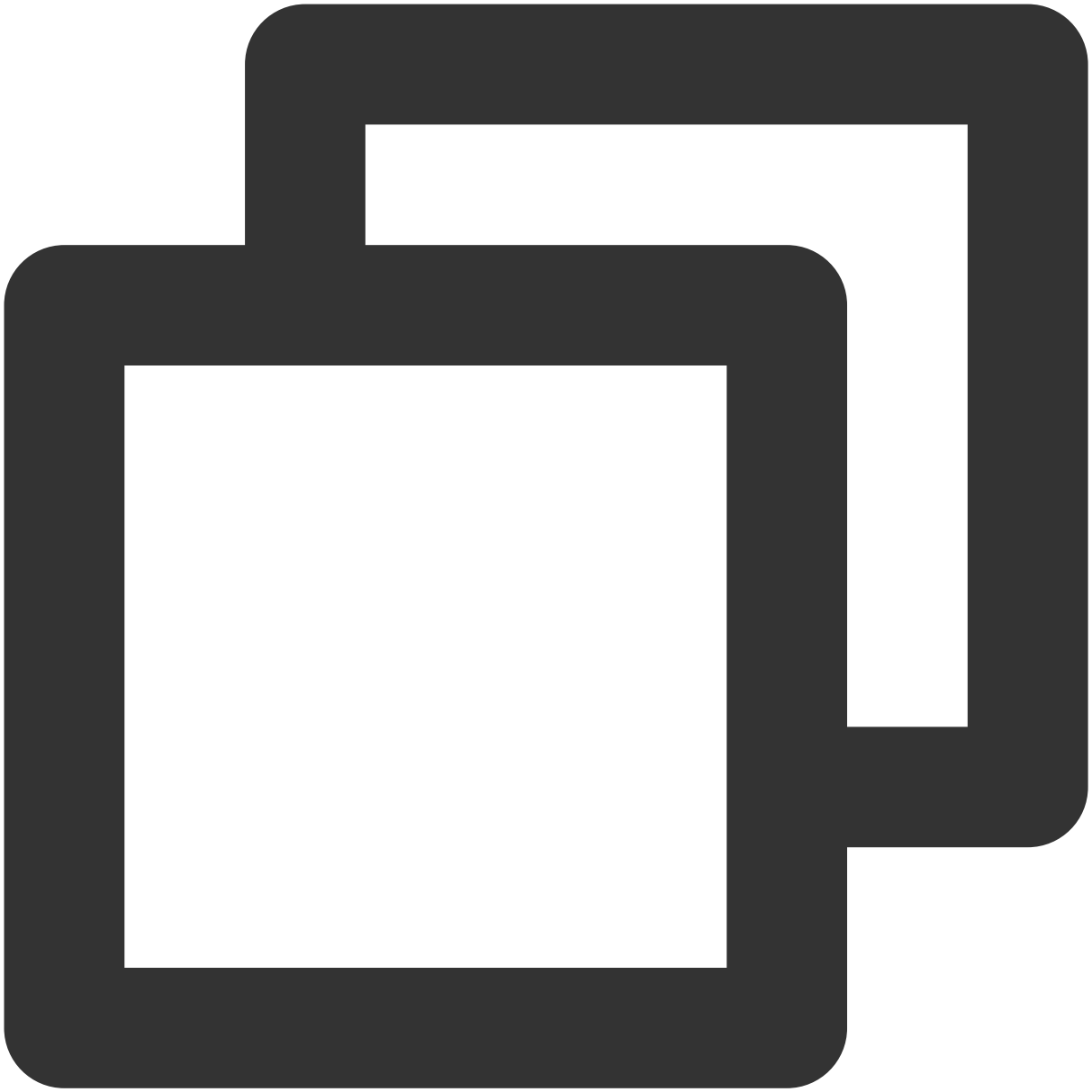
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```
        // Set the opacity of the watermark.
        .setDissolve(80)
        // Set the horizontal offset.
        .setDistanceX(10)
        // Set the vertical offset.
        .setDistanceY(10)
        // Enable text watermark tiling to tile the watermark across the image.
        .openBatch()
        // Rotate the watermark.
        .rotate(45)
        .builder();
transform.watermarkText(watermarkImageTransform);
```

Removing Image Metadata

CI uses the `imageMogr2` API to remove image metadata, including the EXIF data. For the API documentation, please see Removing Image Metadata.

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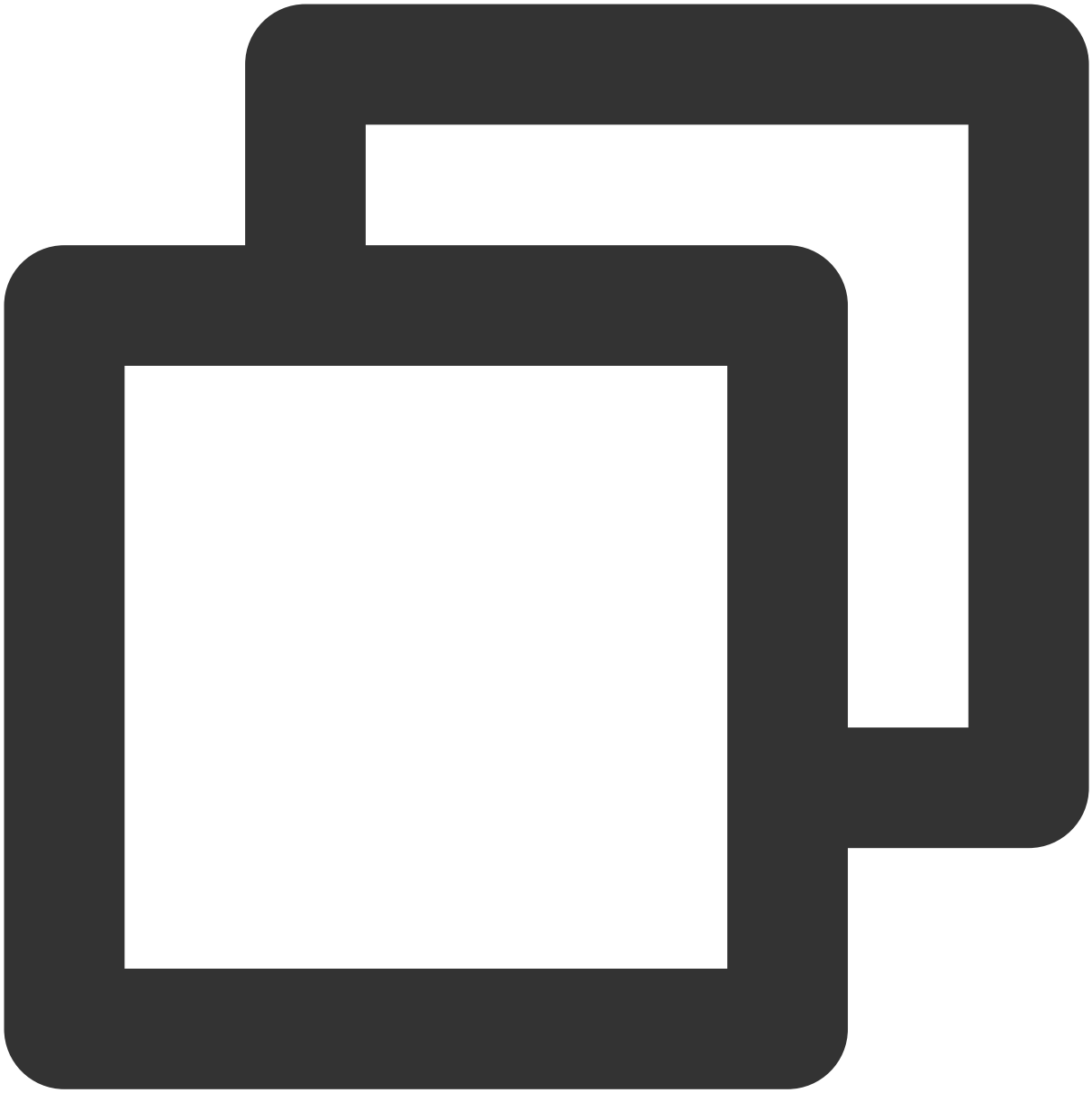


```
transform.strip();
```

Combined Operations

`Transform` can be used to perform multiple operations in order.

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```
transform
        .thumbnailByScale(80)
        .iradius(100)
        .blur(20,20)
        .strip();
```

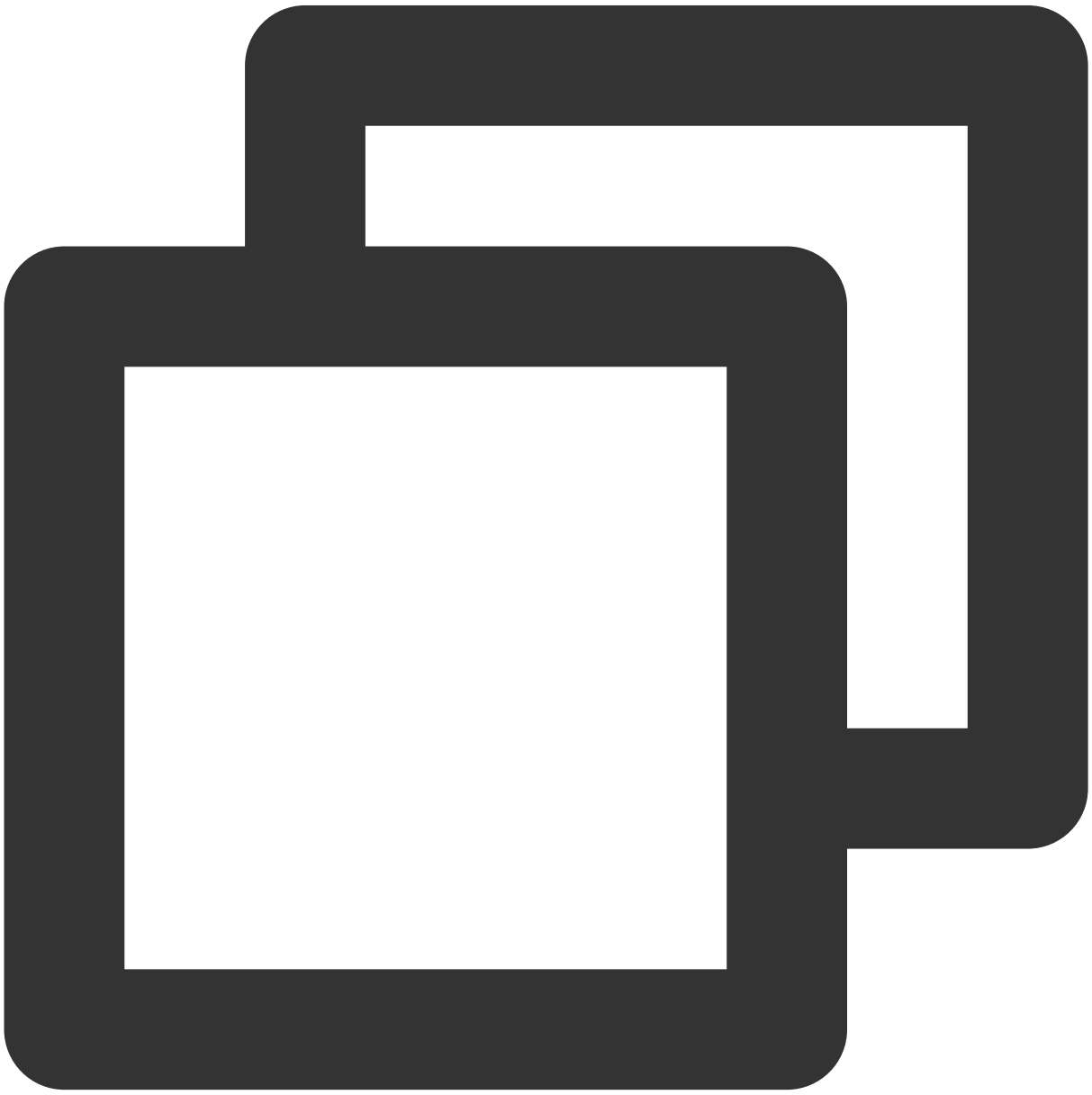
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Loading Image with Glide

Last updated：2024-03-04 10:30:23

This document describes how to load images with Glide.

Installing Glide



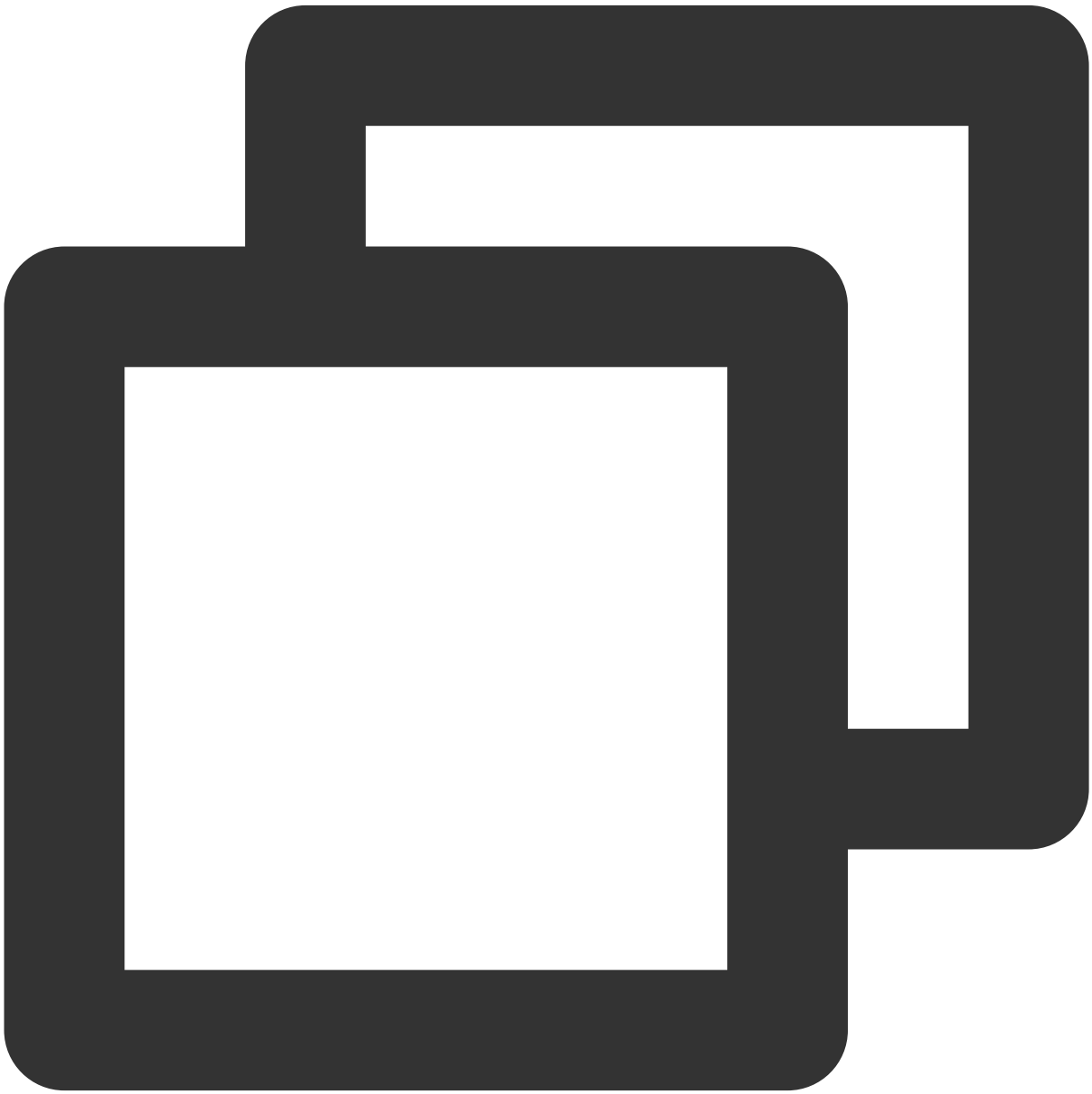
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```
implementation 'com.github.bumptech.glide:glide:version'
```

Basic Image Processing

Use Glide and CI together to perform basic image processing operations (except TPG and AVIF features).

1. Construct a `CIImageLoadRequest` by using `CloudInfinite` and `CITransformation`.

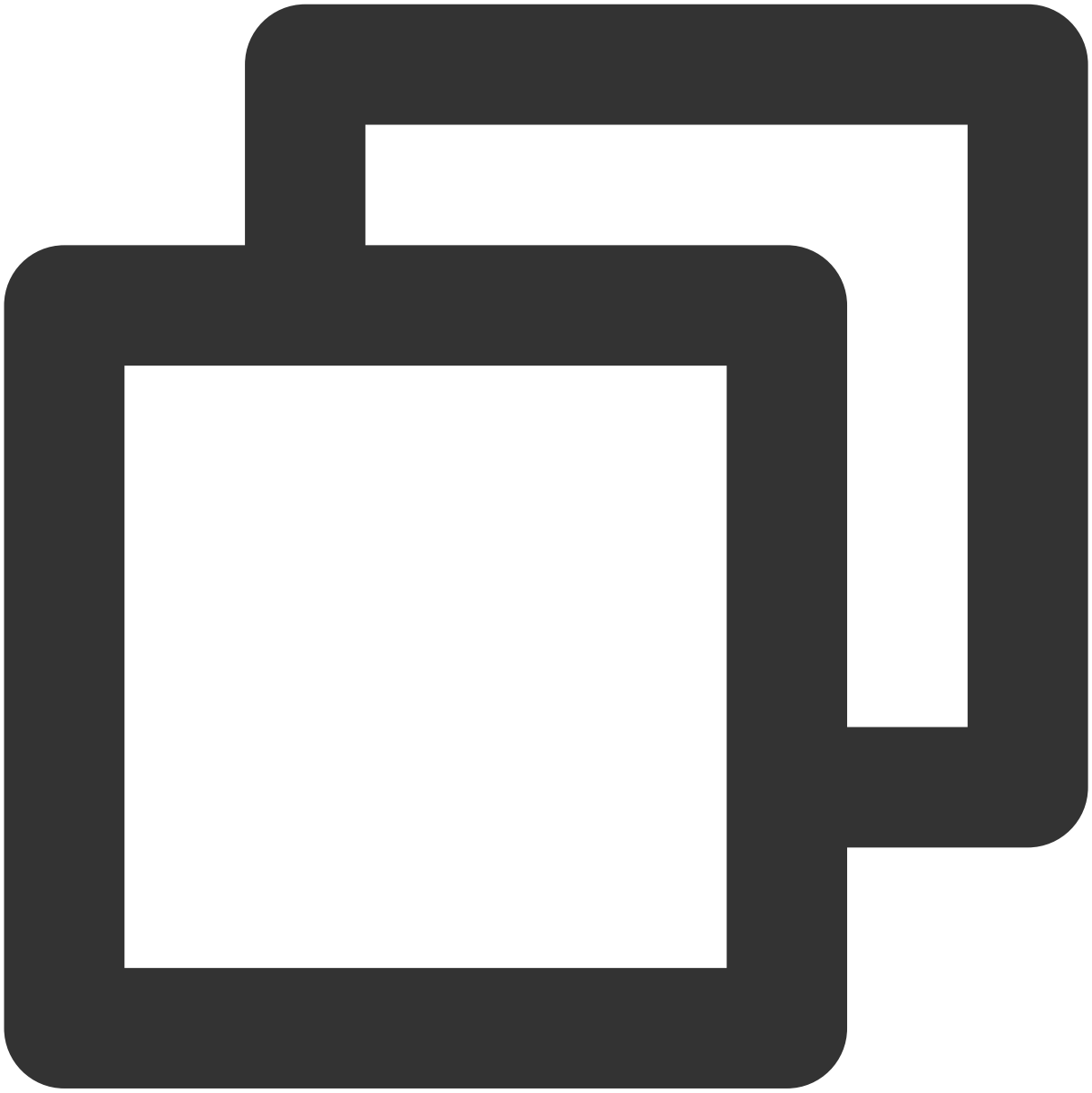


```
CloudInfinite cloudInfinite = new CloudInfinite();
```

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```
CITransformation transform = new CITransformation();
transform.thumbnailByScale(50).iradius(60);
CIImageLoadRequest request = cloudInfinite.requestWithBaseUrlSync(url, transform);
```

2. Get the URL through the obtained `CIImageLoadRequest` and use Glide to load it.

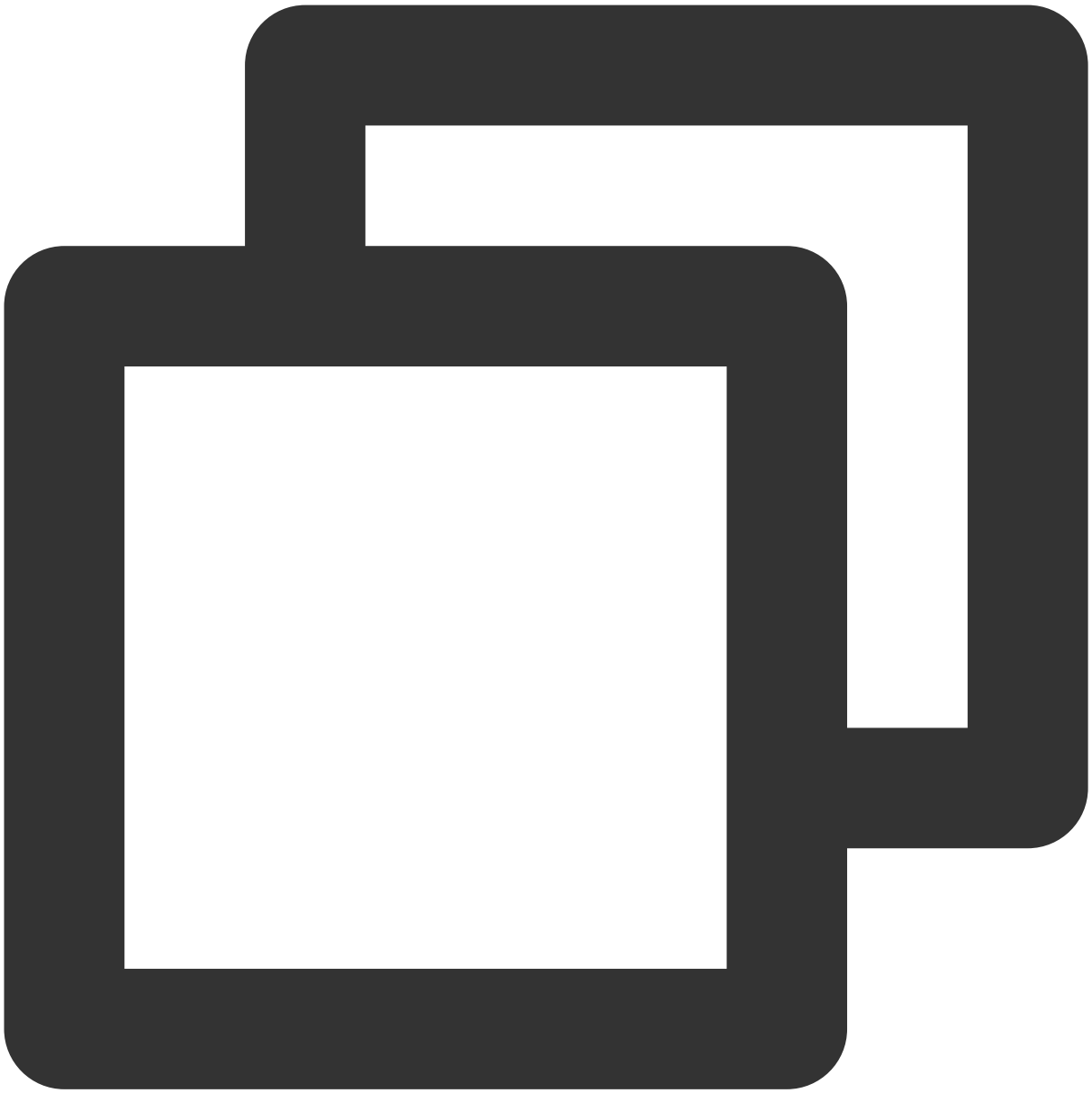


```
Glide.with(activity).load(request.getUrl().toString()).into(imageview);
```

Using CI's Glide Feature

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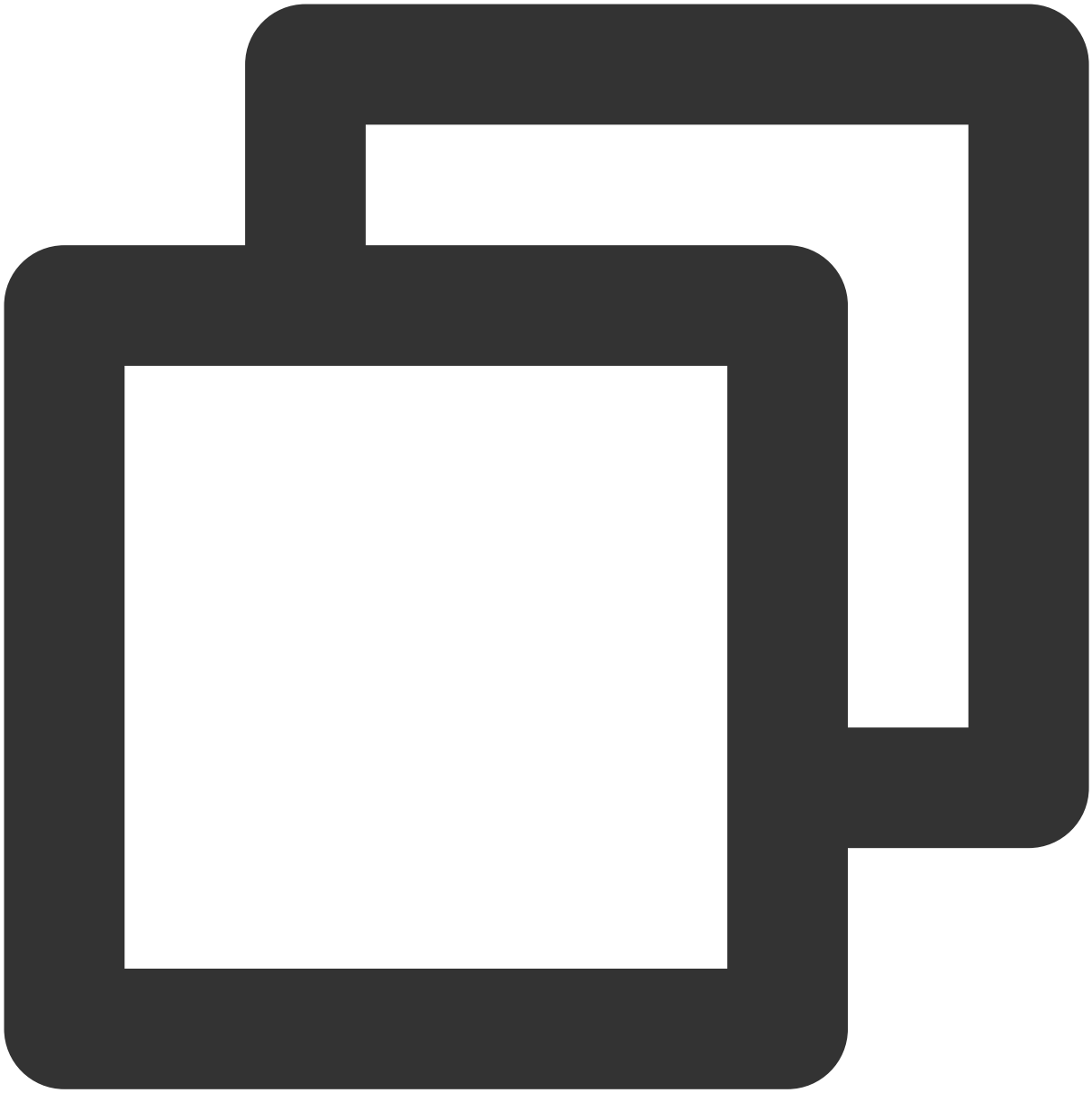
Install the cloud-infinite-glide SDK and glide:compiler.



```
implementation 'com.qcloud.cos:cloud-infinite-glide:1.2.1'
annotationProcessor 'com.github.bumptech.glide:compiler:version'
```

Register relevant decoders and loaders through `AppGlideModule` to implement corresponding features.

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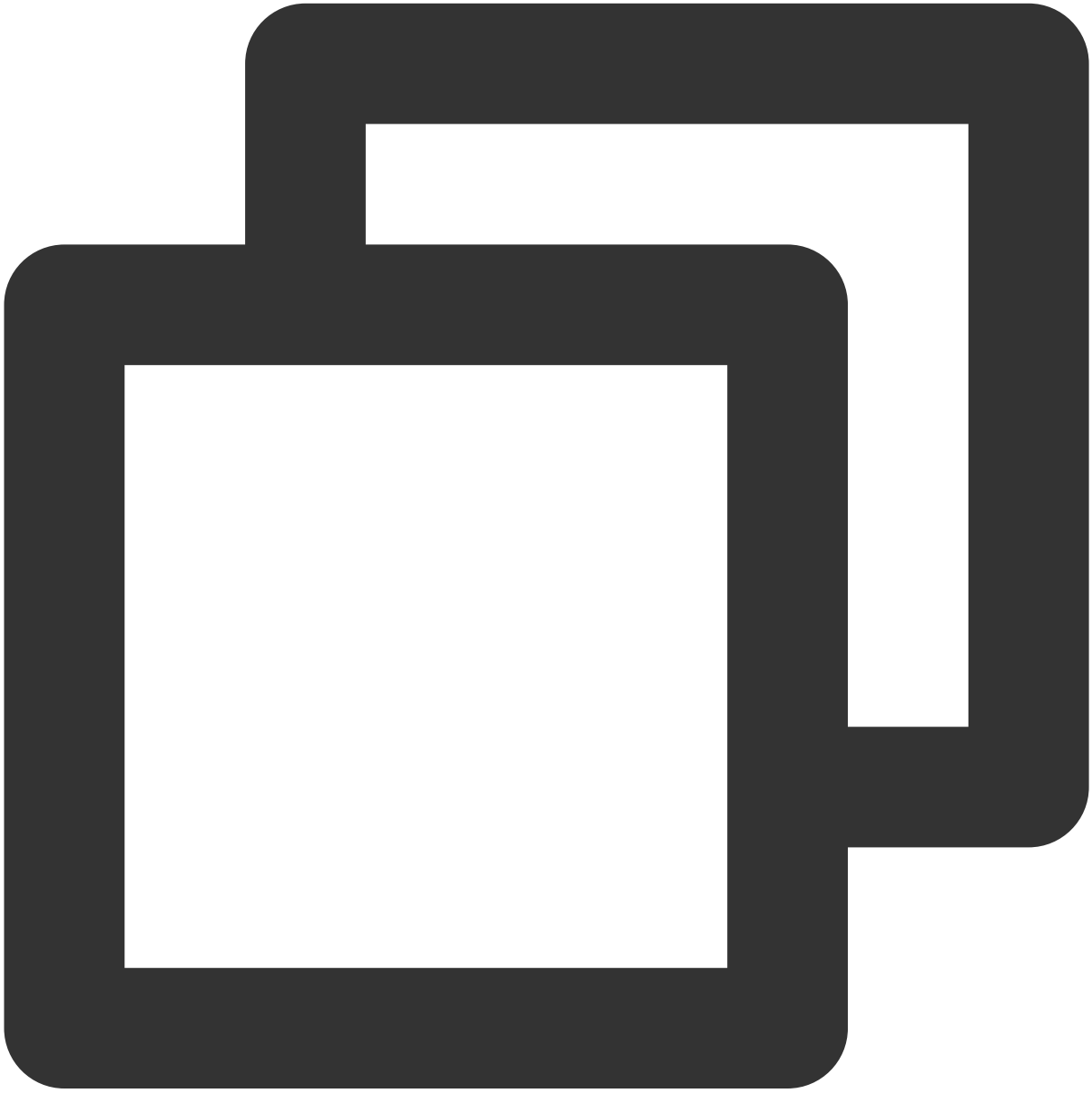
```
 // Register the custom `GlideModule`
 // You should create this class to register `CIImageRequestModelLoader` and `Image
 // If you develop class libraries, you can inherit `LibraryGlideModule` to create
@GlideModule
public class MyAppGlideModule extends AppGlideModule {
    @Override
    public void registerComponents(@NonNull Context context, @NonNull Glide glide,
        // Register a loader that supports `CIImageLoadRequest`
        registry.prepend(CIImageLoadRequest.class, InputStream.class, new CIImageRe

        // Register the main color decoder
```

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```
        registry.prepend(InputStream.class, Bitmap.class, new ImageAveDecoder(glide
    }
}
```

Preloading with image main color



```
// Register the main color decoder in `AppGlideModule` first
registry.prepend(InputStream.class, Bitmap.class, new ImageAveDecoder(glide.getBitm

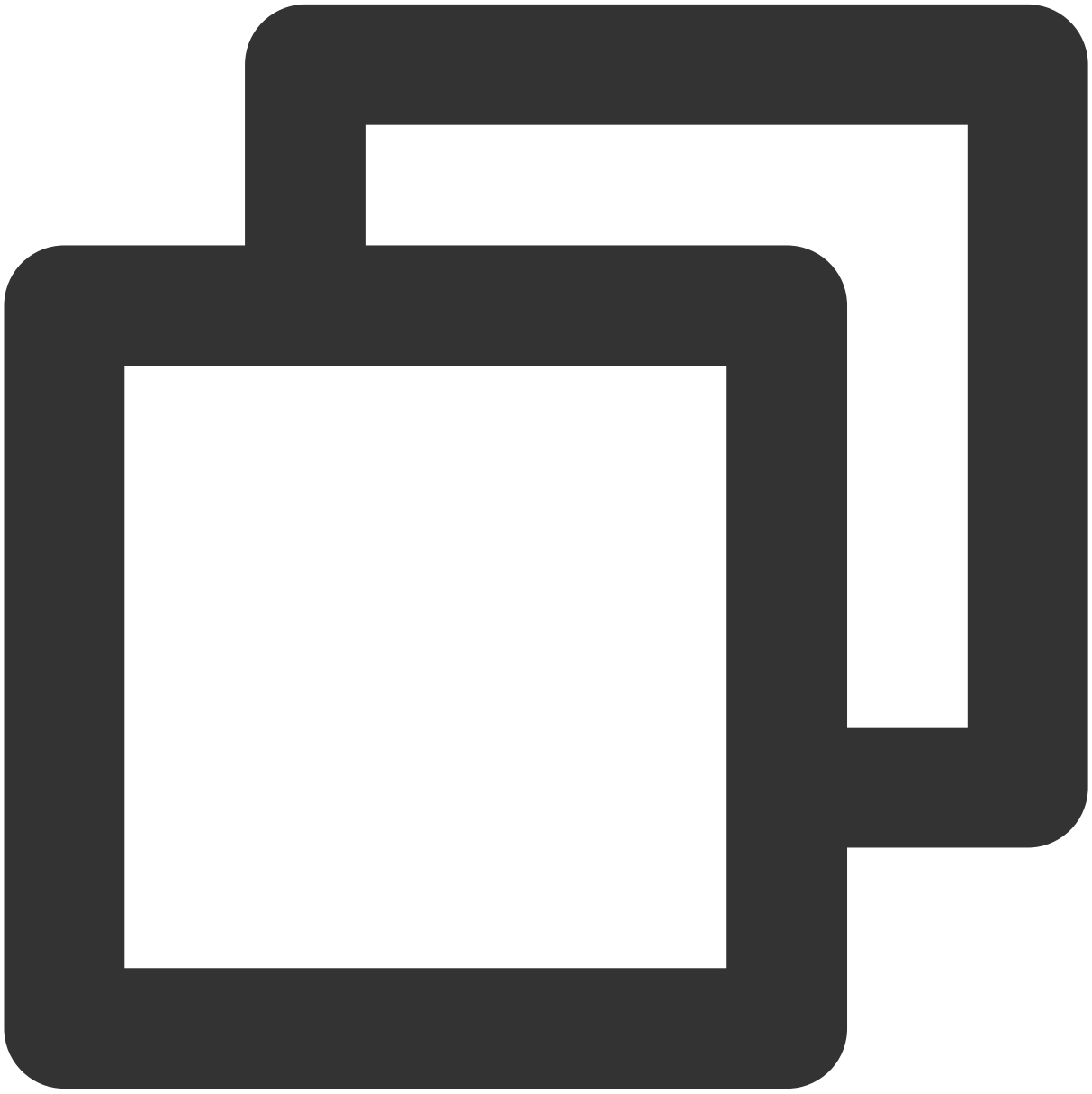
// Use Glide's thumbnail to preload the main color
Glide.with(context)
```

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```
                .load(imageUrl)
                .thumbnail(CloudInfiniteGlide.getImageAveThumbnail(context, imageUrl
                .into(imageview);
```

Directly loading `CIImageLoadRequest`

Currently, this method is only used for the case where the header transfers the target image format during format conversion.

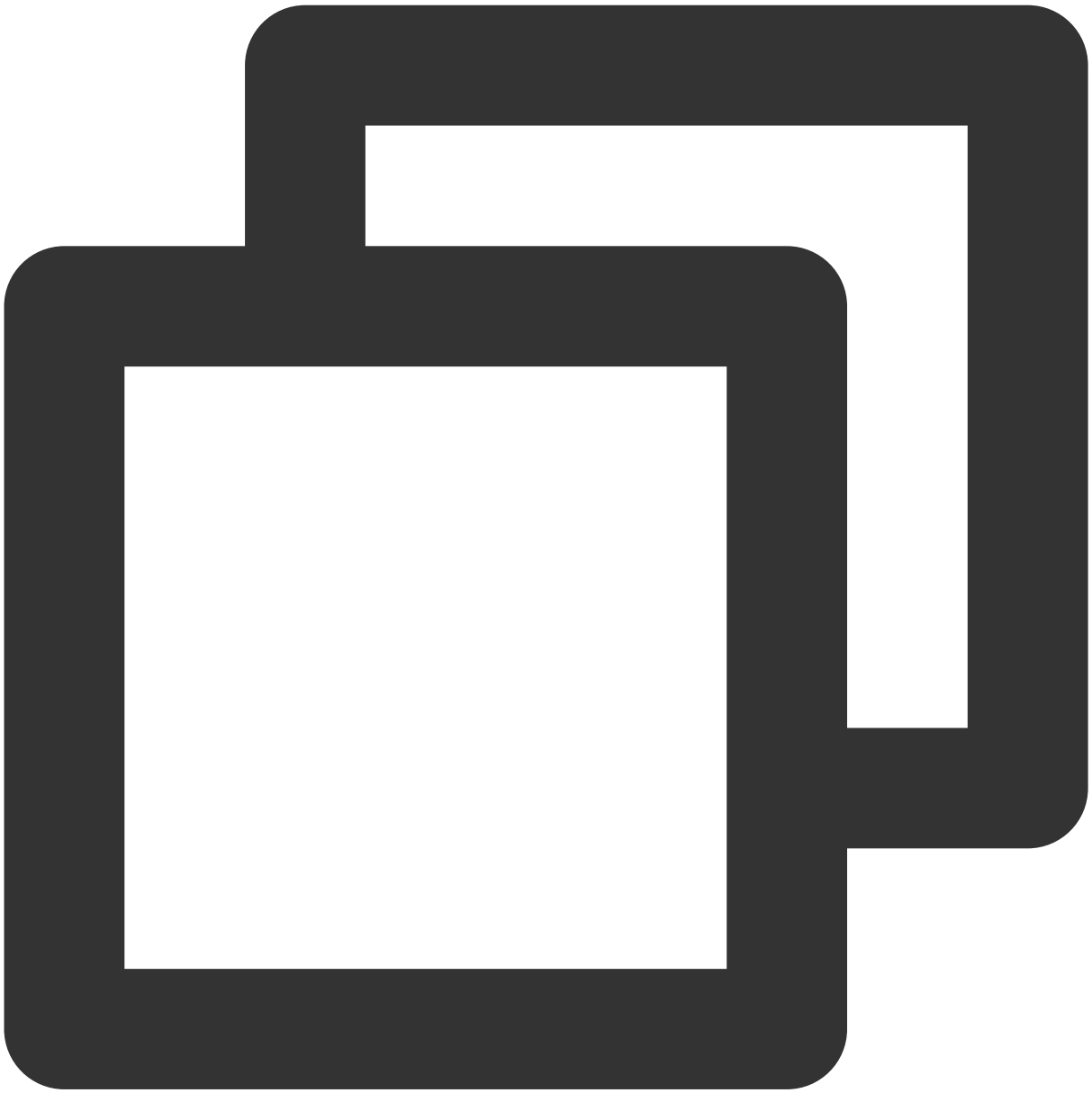


```
registry.prepend(CIImageLoadRequest.class, InputStream.class, new CIImageRequestMod
```

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Using CI's TPG Feature

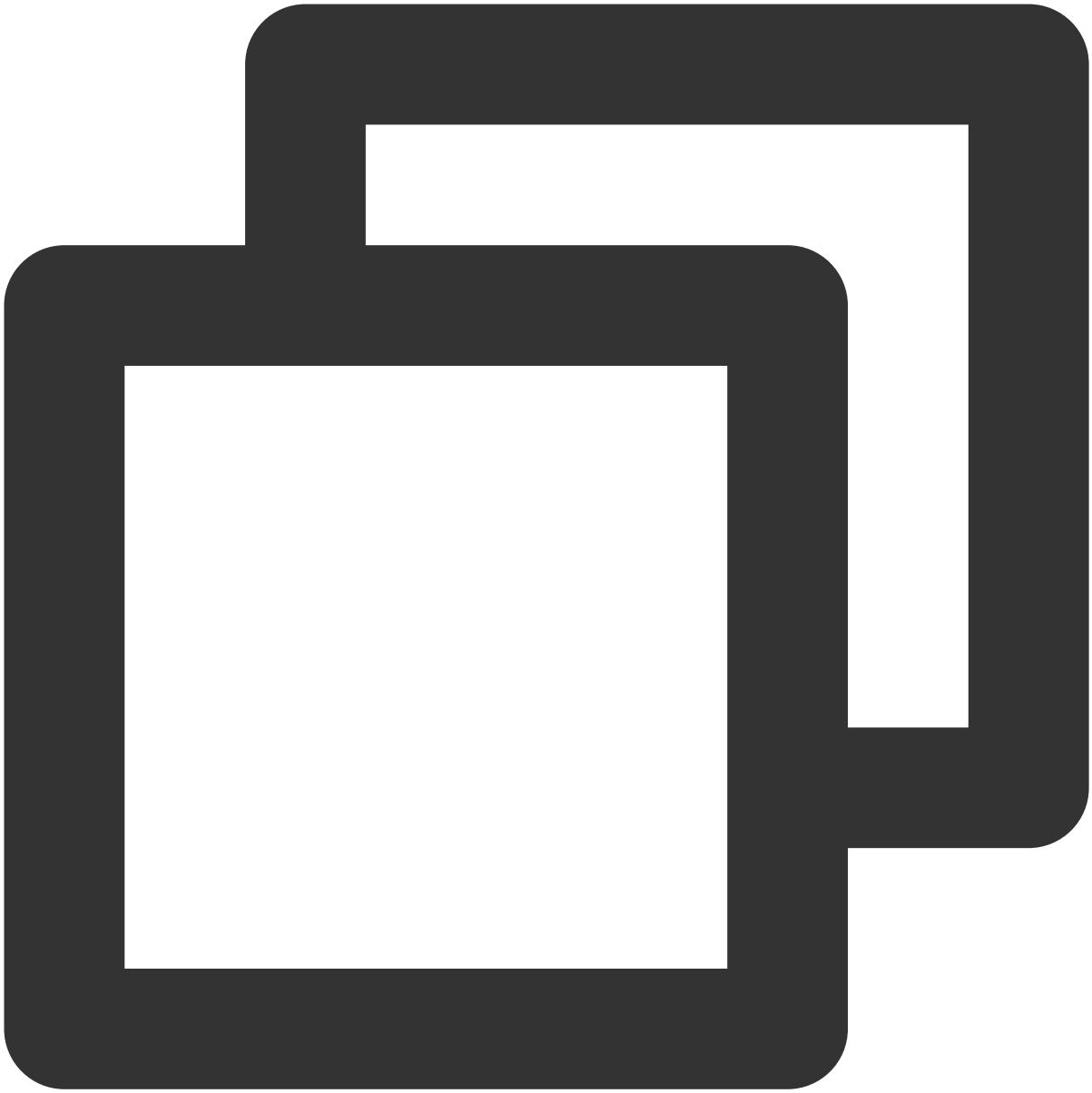
Install the TPG SDK and glide:compiler.



```
implementation 'com.qcloud.cos:tpg:1.3.2'
annotationProcessor 'com.github.bumptech.glide:compiler:version'
```

Register relevant decoders through `AppGlideModule` to implement corresponding features.

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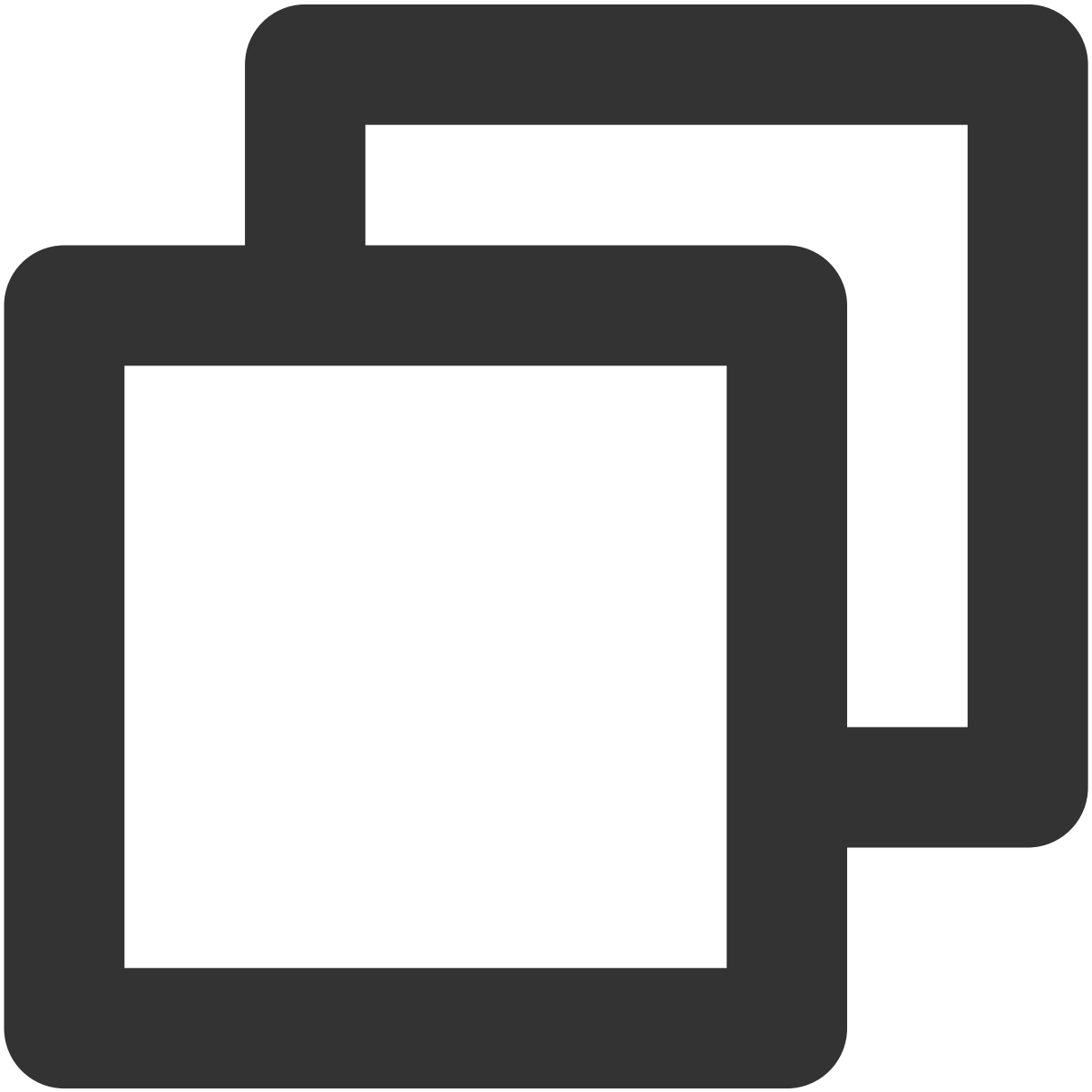


```
 // Register the custom `GlideModule`
 // You should create this class to register `TpgDecoder` and `ByteBufferTpgGifDeco
 // If you develop class libraries, you can inherit `LibraryGlideModule` to create
@GlideModule
public class MyAppGlideModule extends AppGlideModule {
    @Override
    public void registerComponents(@NonNull Context context, @NonNull Glide glide,
        /*------------------Decoder start-------------------------*/
        // Register the static TPG image decoder
        registry.prepend(InputStream.class, Bitmap.class, new TpgDecoder(glide.getB
        // Register the animated TPG image decoder
```

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```
        ByteBufferTpgGifDecoder byteBufferTpgGifDecoder = new ByteBufferTpgGifDecod
        registry.prepend(InputStream.class, GifDrawable.class, new StreamTpgGifDeco
        registry.prepend(ByteBuffer.class, GifDrawable.class, byteBufferTpgGifDecod
        /*------------------Decoder end-------------------------*/
    }
}
```

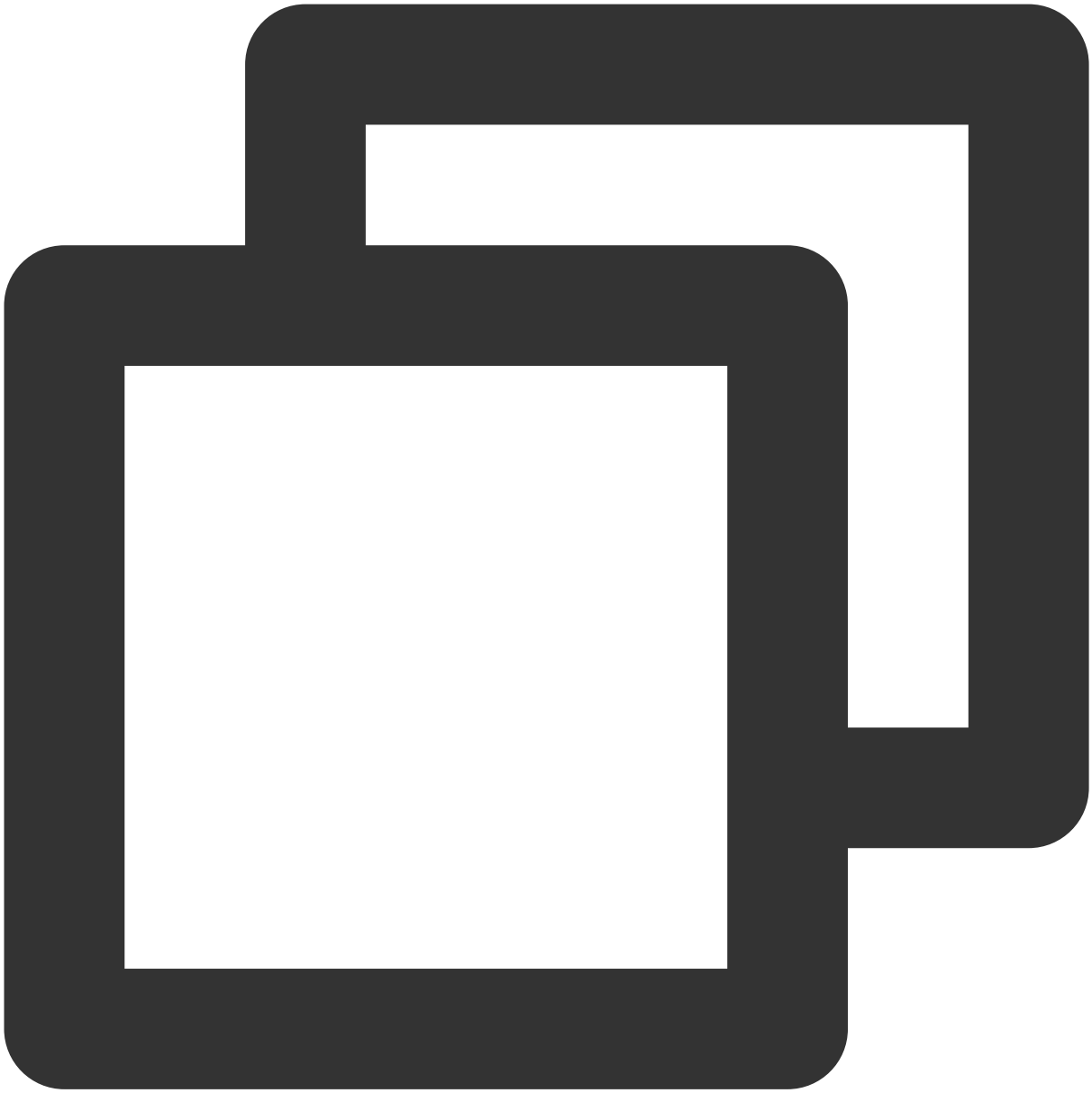
Loading static TPG image



```
registry.prepend(InputStream.class, Bitmap.class, new TpgDecoder(glide.getBitmapPoo
```

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Loading animated TPG image

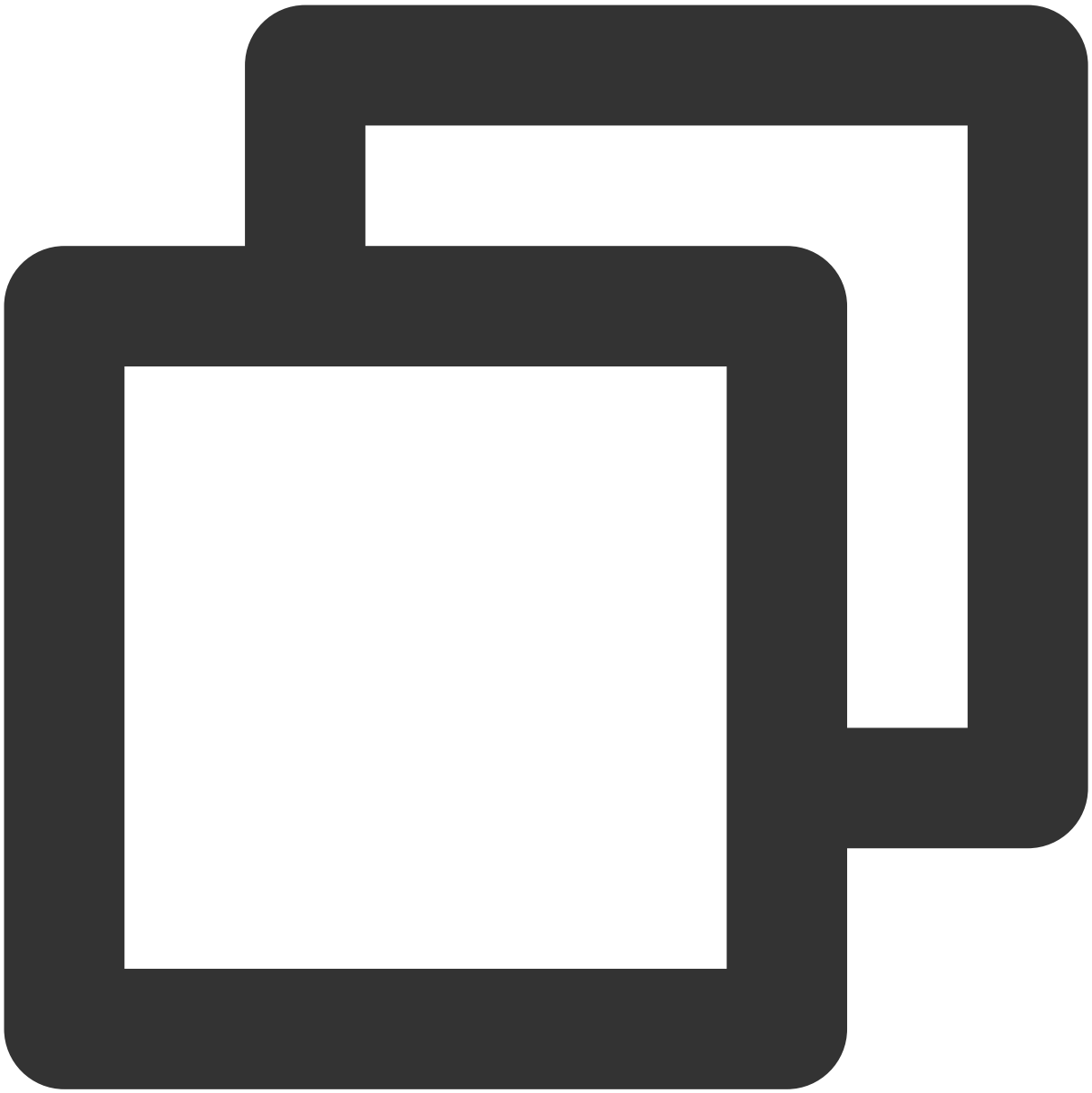


```
ByteBufferTpgGifDecoder byteBufferTpgGifDecoder = new ByteBufferTpgGifDecoder(conte
registry.prepend(InputStream.class, GifDrawable.class, new StreamTpgGifDecoder(byte
registry.prepend(ByteBuffer.class, GifDrawable.class, byteBufferTpgGifDecoder);
```

Using CI's AVIF Feature

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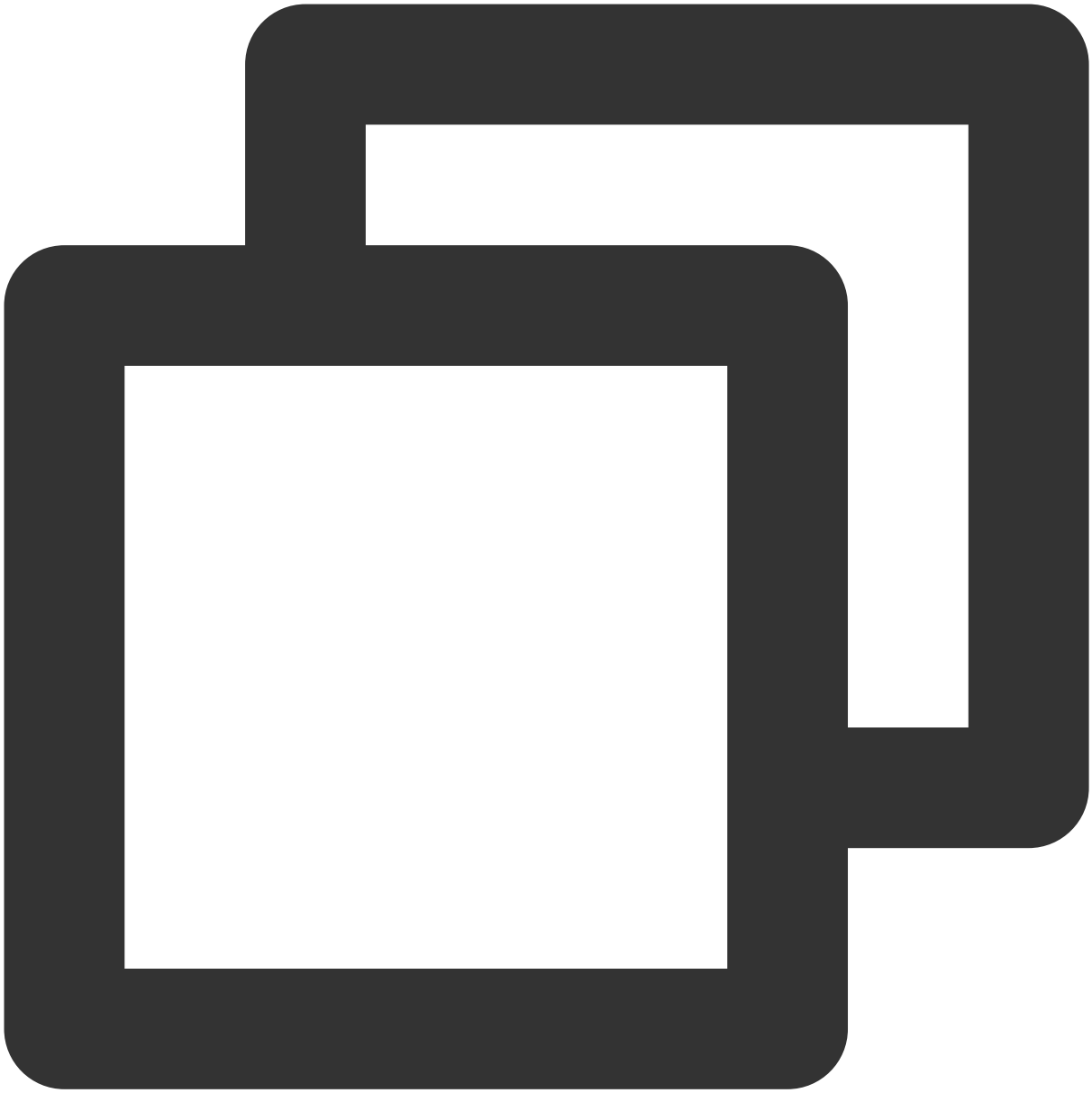
Install the AVIF SDK and glide:compiler.



```
implementation 'com.qcloud.cos:avif:1.0.0'
annotationProcessor 'com.github.bumptech.glide:compiler:version'
```

Register relevant decoders through `AppGlideModule` to implement corresponding features.

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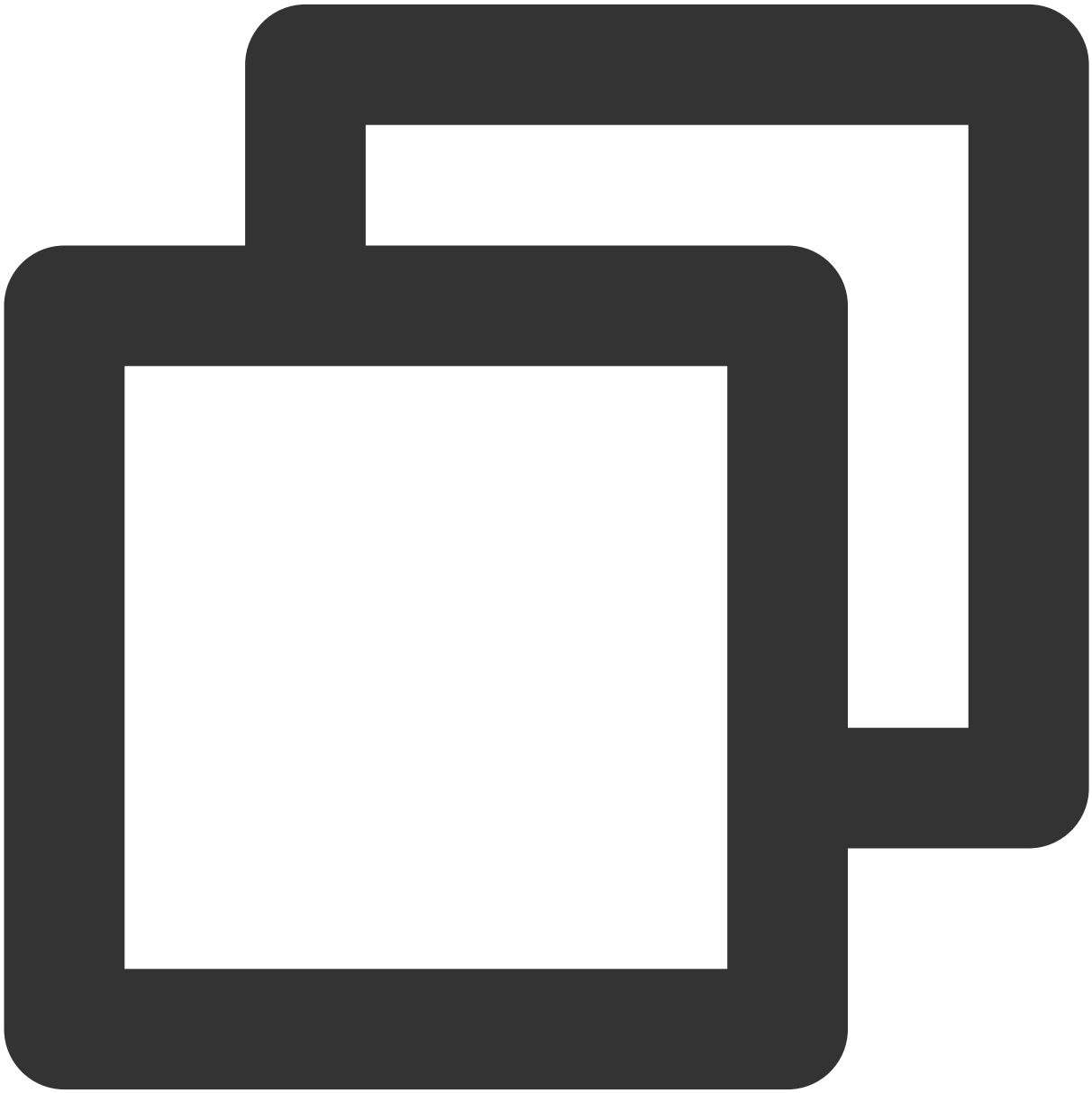


```
 // Register the custom `GlideModule`
 // You should create this class to register relevant decoders.<br>
 // If you develop class libraries, you can inherit `LibraryGlideModule` to create
@GlideModule
public class MyAppGlideModule extends AppGlideModule {
    @Override
    public void registerComponents(@NonNull Context context, @NonNull Glide glide,
        /*------------------Decoder start-------------------------*/
        // Register the static AVIF image decoder
        registry.prepend(Registry.BUCKET_BITMAP, InputStream.class, Bitmap.class, n
        registry.prepend(Registry.BUCKET_BITMAP, ByteBuffer.class, Bitmap.class, ne
```

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```
        // Register the animated AVIF image decoder
        registry.prepend(InputStream.class, AvifSequenceDrawable.class, new StreamA
        registry.prepend(ByteBuffer.class, AvifSequenceDrawable.class, new ByteBuff
        /*------------------Decoder end-------------------------*/
    }
}
```

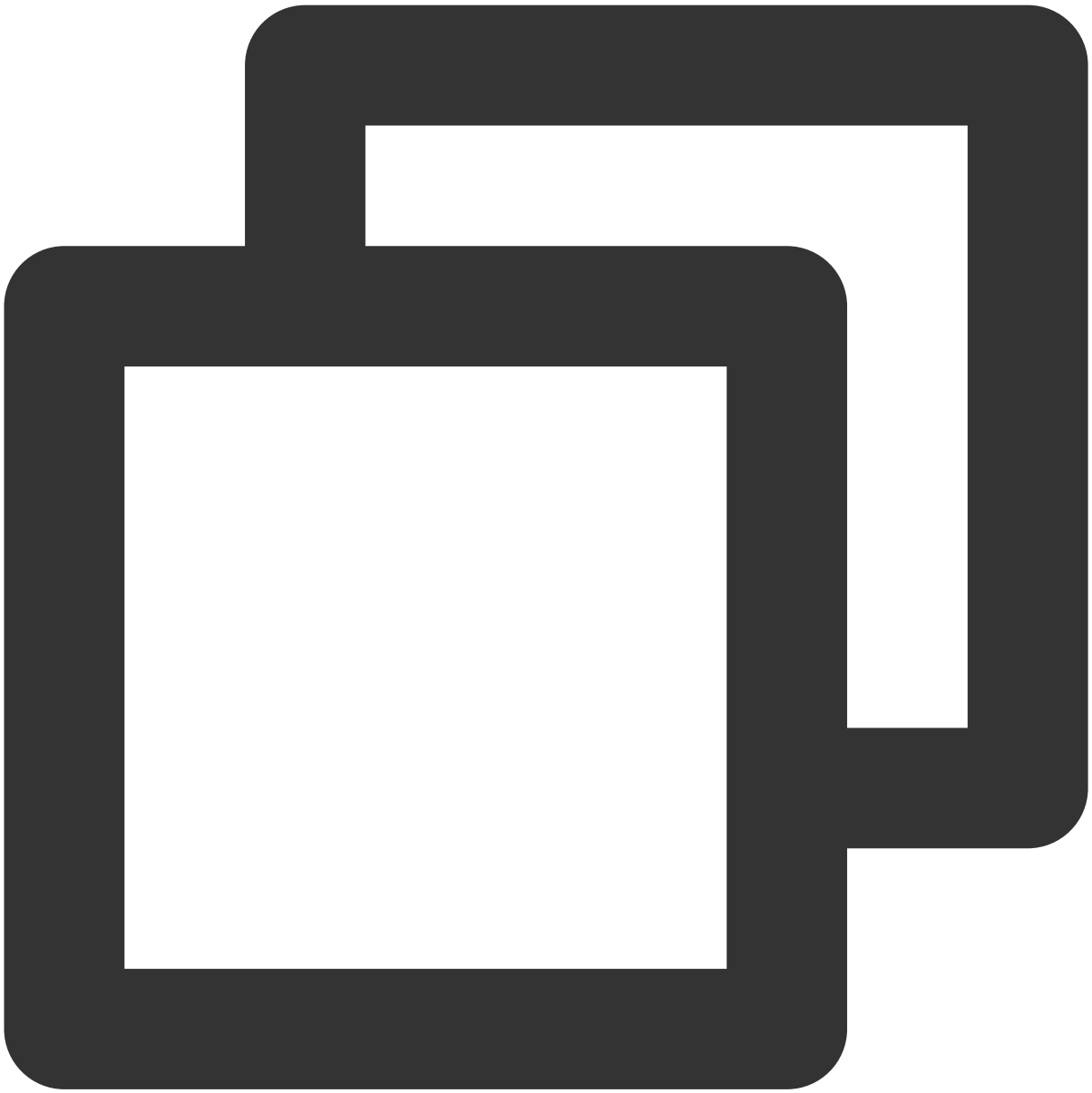
Loading static AVIF image



```
registry.prepend(Registry.BUCKET_BITMAP, InputStream.class, Bitmap.class, new Strea
registry.prepend(Registry.BUCKET_BITMAP, ByteBuffer.class, Bitmap.class, new ByteBu
```

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Loading animated AVIF image



```
registry.prepend(InputStream.class, AvifSequenceDrawable.class, new StreamAvifSeque
registry.prepend(ByteBuffer.class, AvifSequenceDrawable.class, new ByteBufferAvifSe
```

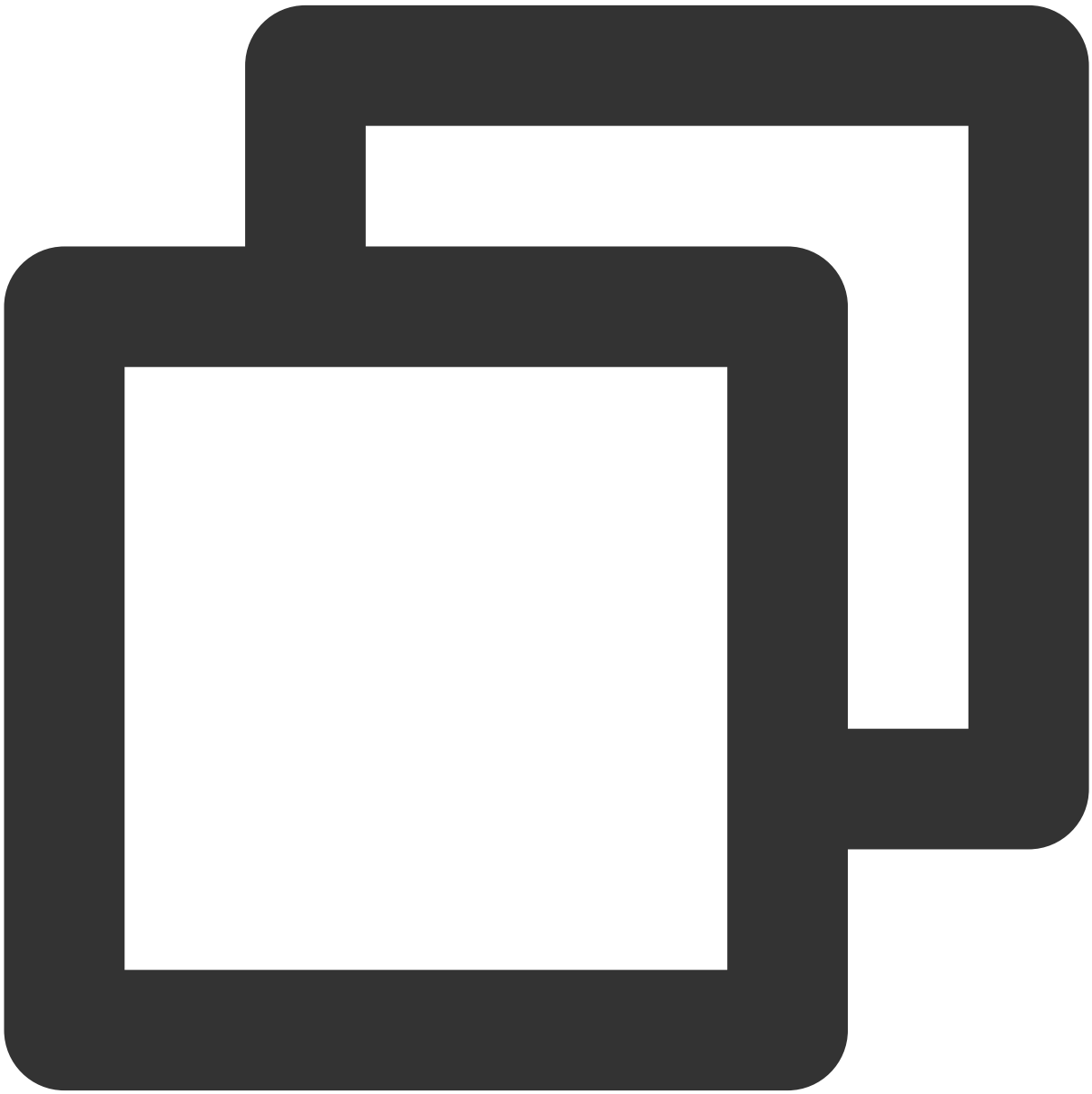
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Loading TPG Image

Last updated：2024-03-04 10:30:23

This document describes how to load online and local TPG images.

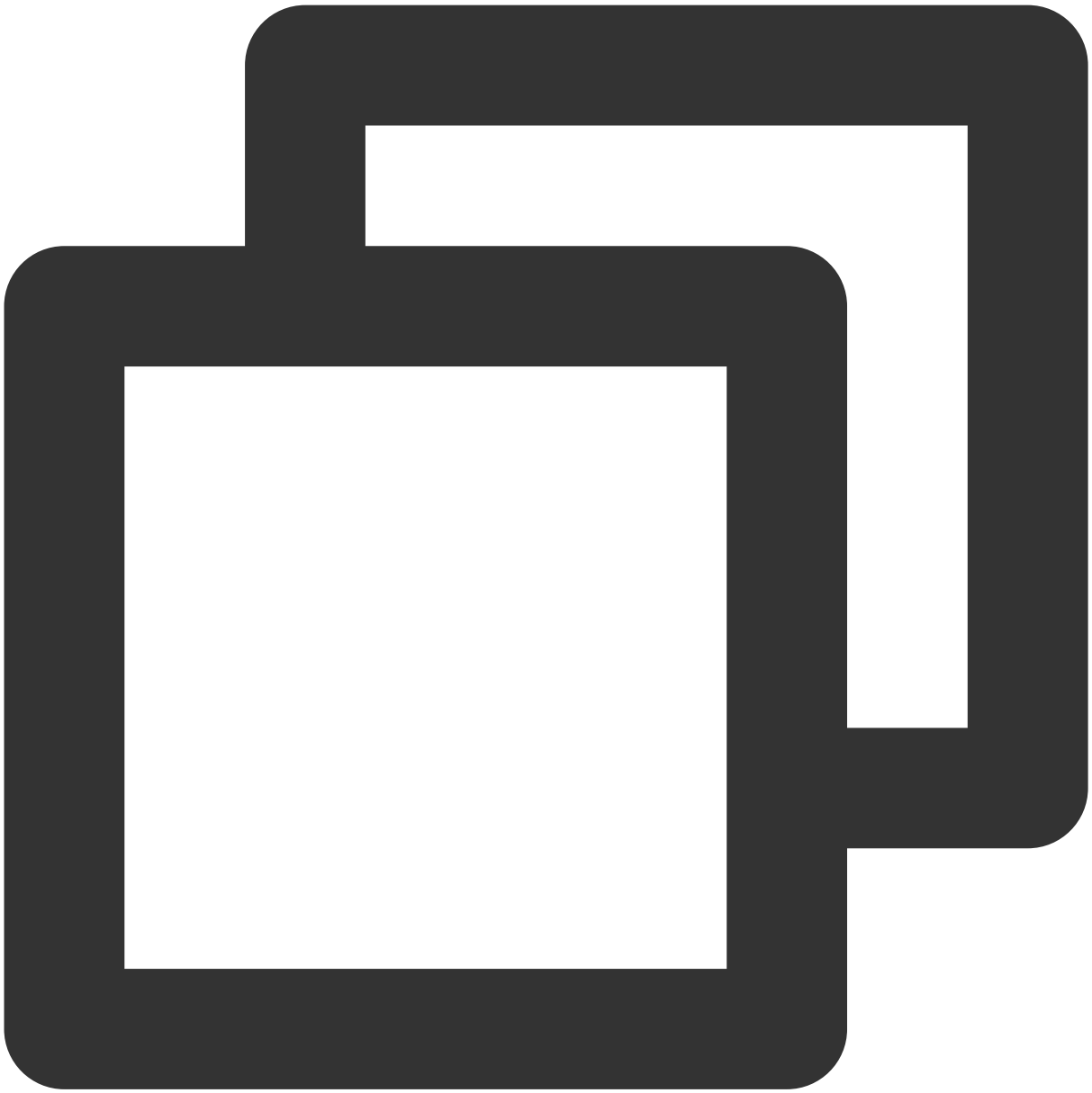
Installing TPG SDK



```
implementation 'com.qcloud.cos:tpg:1.3.2'
```

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The .so libraries will be included automatically. We recommend you use the "abiFilter" configuration of the NDK in the module's `build.gradle` file to set the .so library frameworks that are supported.

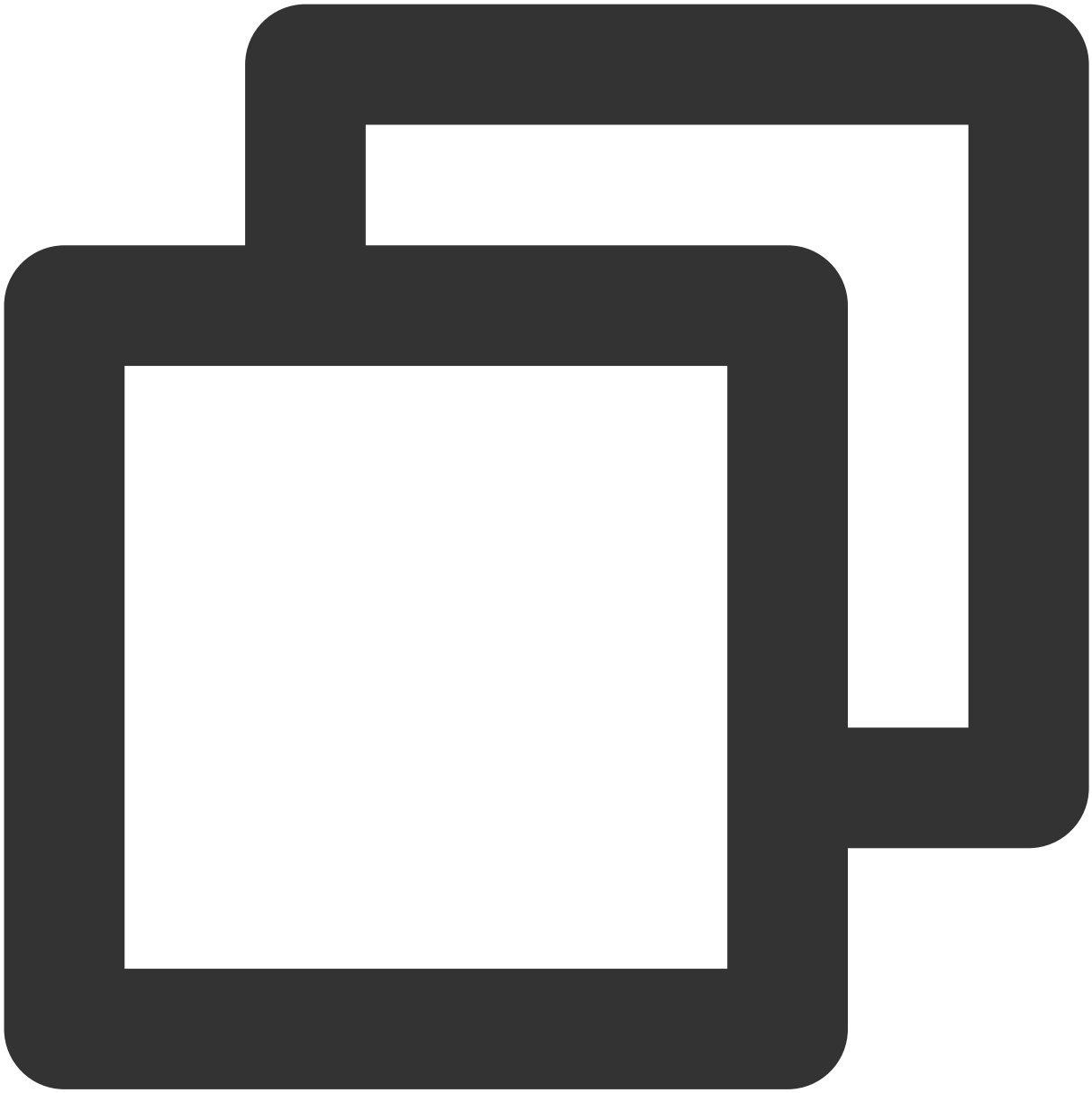


```
defaultConfig {
    ndk {
        // Set the .so library frameworks that are supported
        abiFilters 'armeabi' //, 'x86', 'armeabi-v7a', 'x86_64', 'arm64-v8a'
    }
}
```

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Option 1. Loading online TPG image

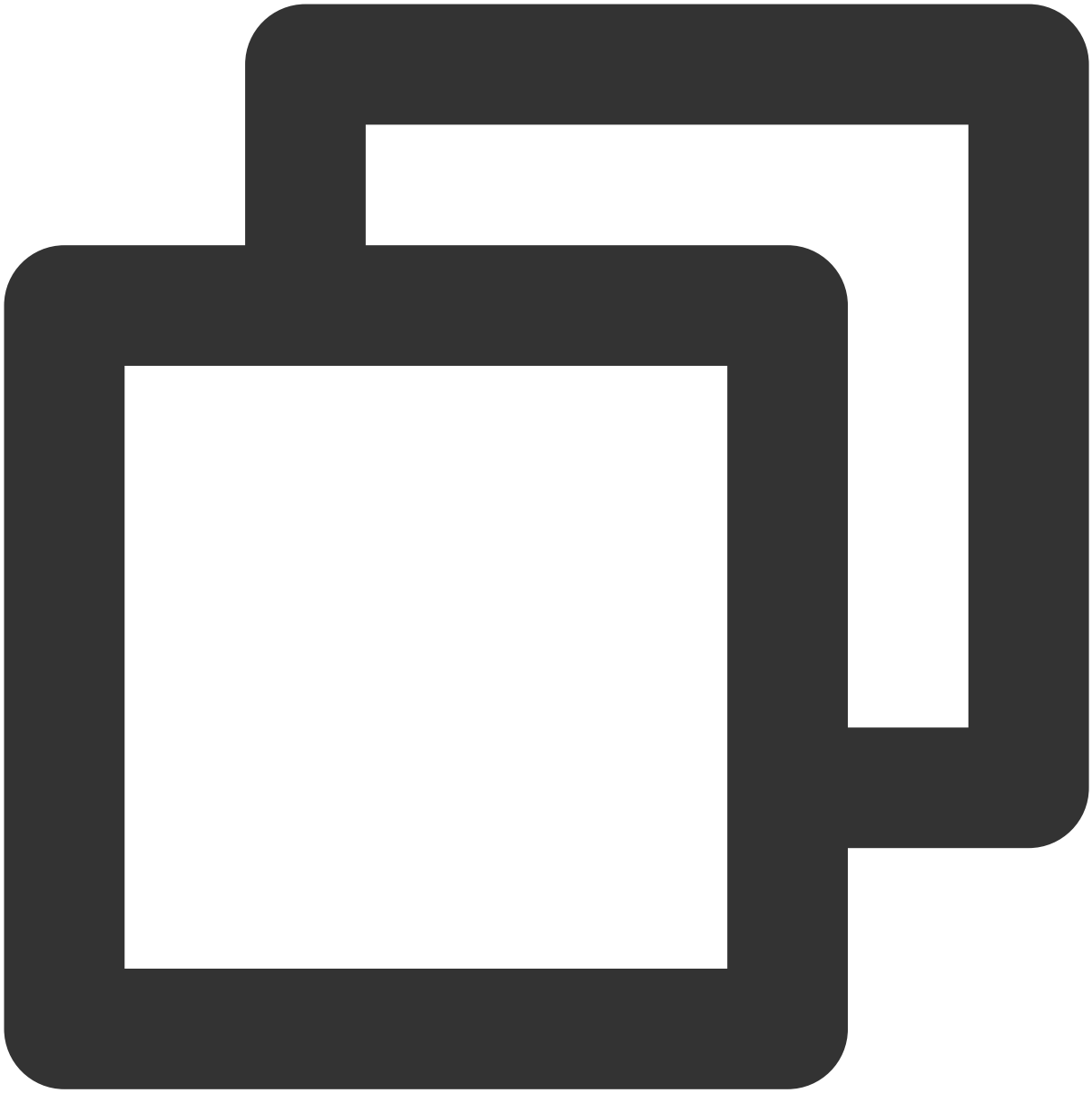
1. Integrate the CI SDK.



```
implementation 'com.qcloud.cos:cloud-infinite:1.2.1'
```

2. Build a link requesting TPG images in the CI SDK, and then use it with Glide to load online TPG images.

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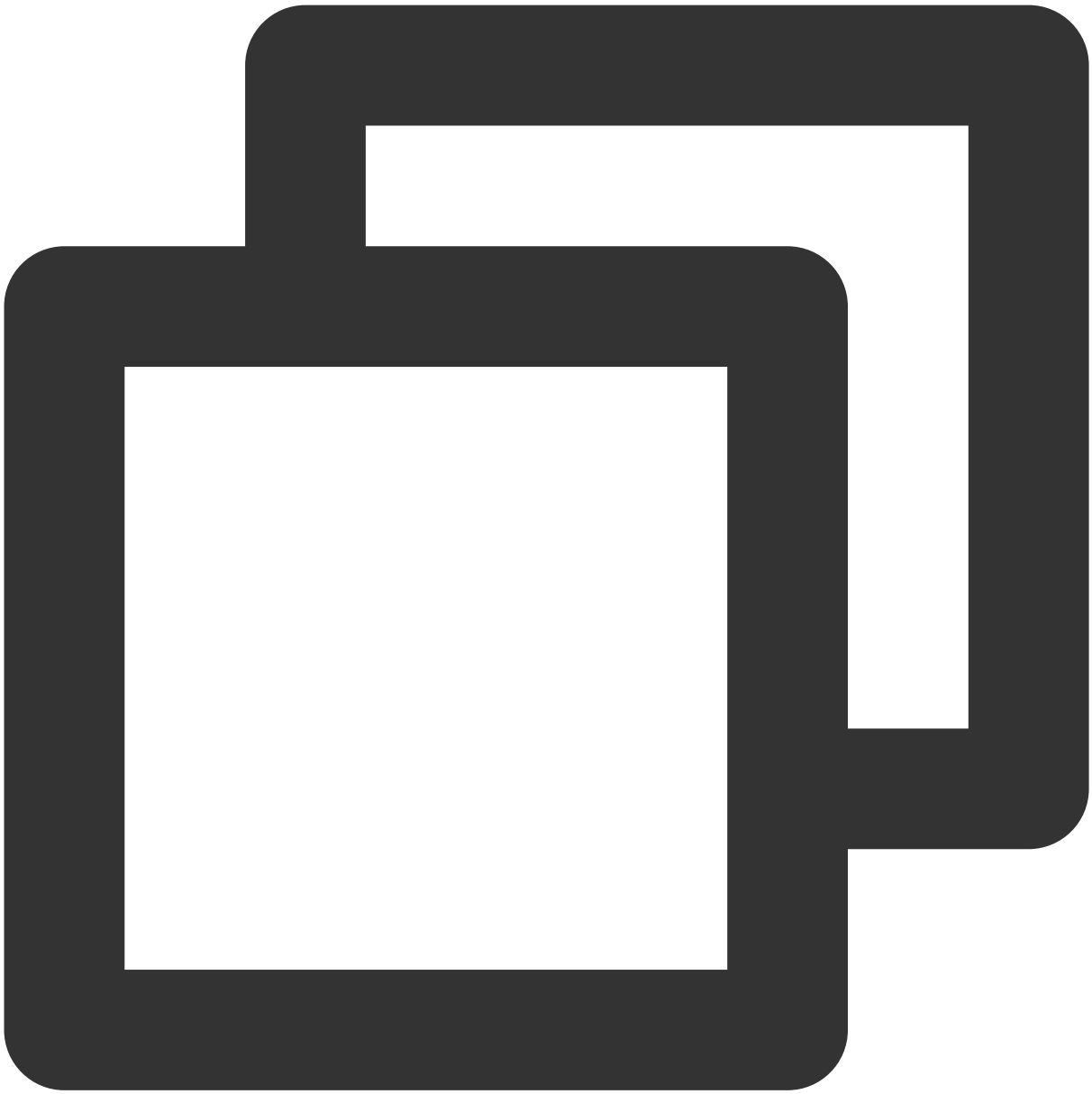


```
// Instantiate `CloudInfinite` to build an image request link;
CloudInfinite cloudInfinite = new CloudInfinite();
// Perform transformation according to the basic feature options of CI you select;
CITransformation transform = new CITransformation();
transform.format(CIImageFormat.TPG, CIImageLoadOptions.LoadTypeUrlFooter);
// Build the image `CIImageLoadRequest`
CIImageLoadRequest request = cloudInfinite.requestWithBaseUrlSync(url, transform);
```

Option 2. Loading local TPG image

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You can use the TPG format for the application's built-in resources, such as assets, drawable, and raw can reduce the size of the installation package.



```
// Load TPG images in `Assets`
TpgImageLoader.displayWithAssets(imageview, assetsName);
// Load TPG images in `Resource`
TpgImageLoader.displayWithResource(imageview, R.drawable.tpg);
// Load TPG images in local files
TpgImageLoader.displayWithFileUri(imageview, fileUri);
```

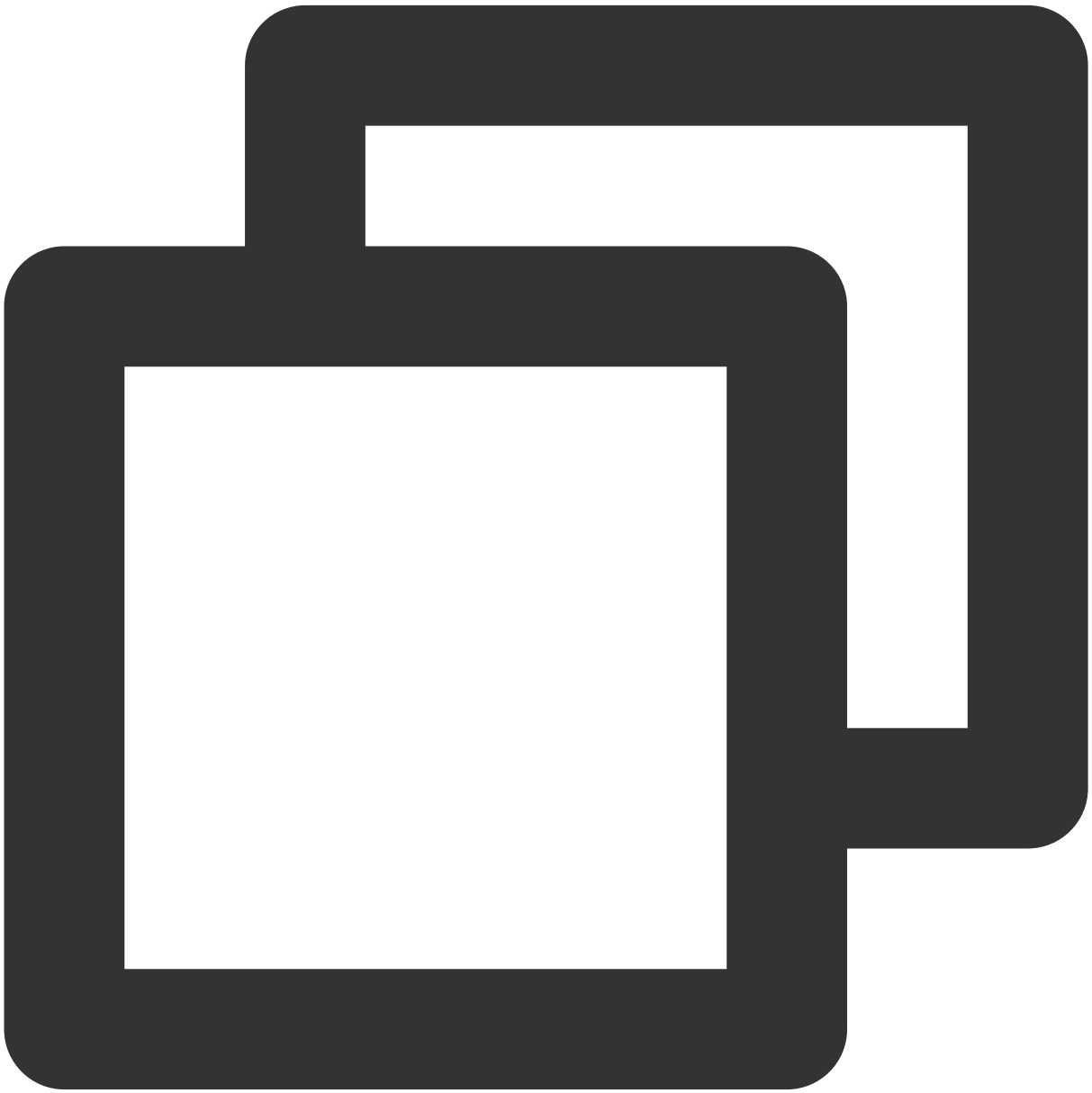
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Loading AVIF Image

Last updated：2024-03-04 10:30:23

This document describes how to load online and local AVIF images.

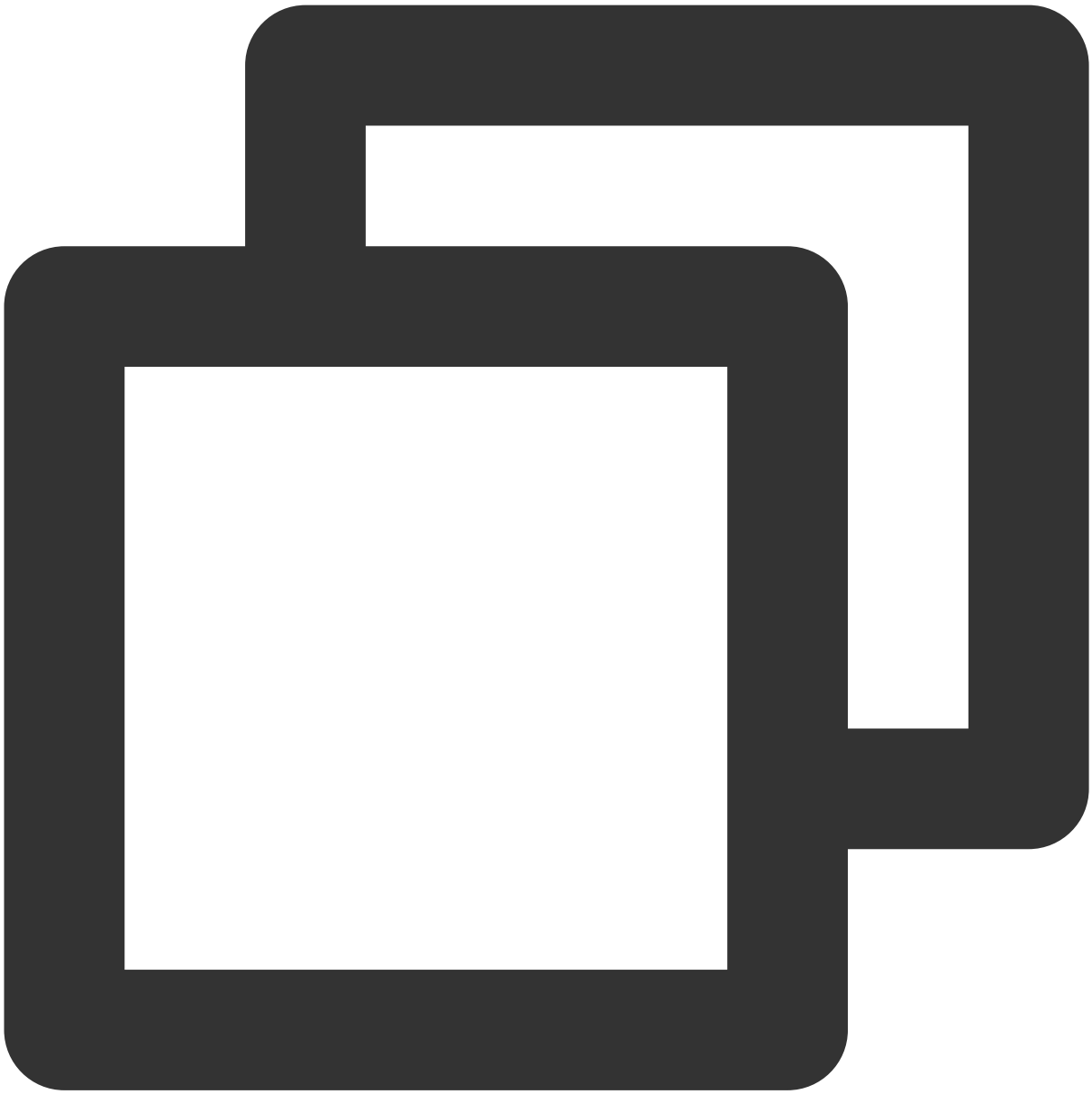
Installing AVIF SDK



```
implementation 'com.qcloud.cos:avif:1.0.0'
```

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The .so libraries will be included automatically. We recommend you use the "abiFilter" configuration of the NDK in the module's `build.gradle` file to set the .so library frameworks that are supported.

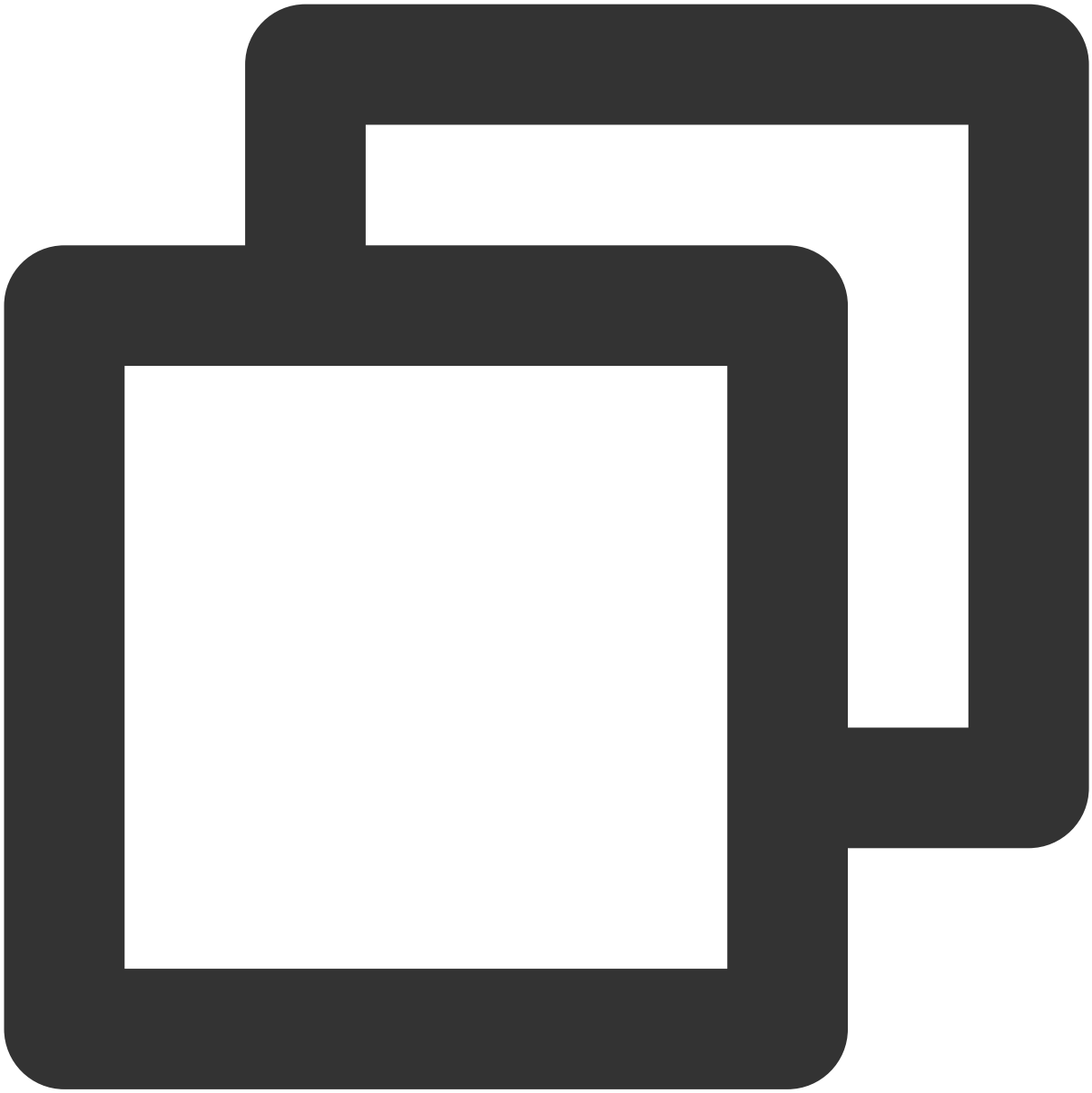


```
defaultConfig {
    ndk {
        // Set the .so library frameworks that are supported
        abiFilters 'armeabi' //, 'x86', 'armeabi-v7a', 'x86_64', 'arm64-v8a'
    }
}
```

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Option 1. Loading online AVIF image

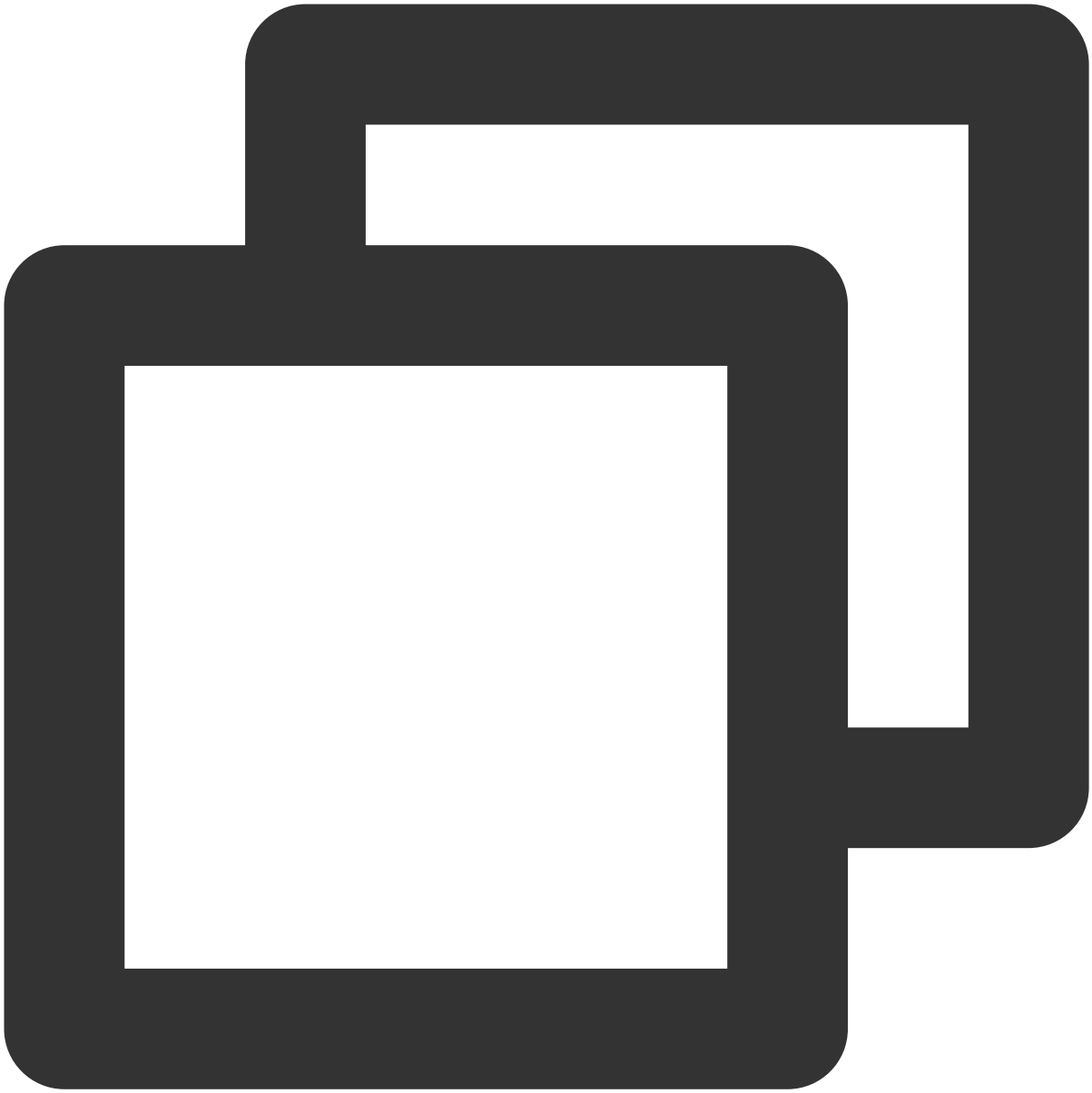
1. Integrate the CI SDK.



```
implementation 'com.qcloud.cos:cloud-infinite:1.2.1'
```

2. Build a link requesting AVIF images in the CI SDK, and then use it with Glide to load online AVIF images as instructed in Loading Image with Glide.

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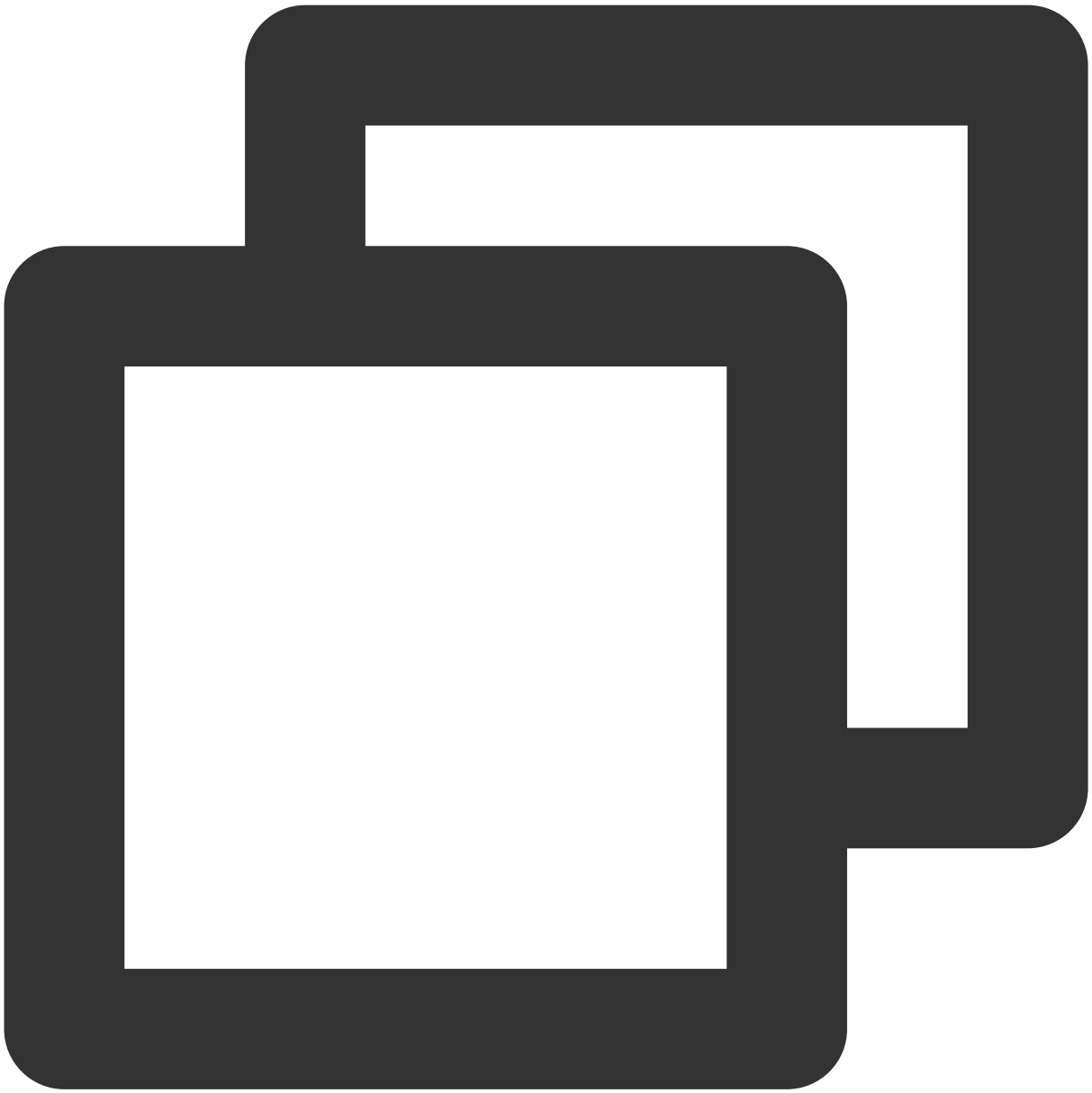


```
// Instantiate `CloudInfinite` to build an image request link;
CloudInfinite cloudInfinite = new CloudInfinite();
// Perform transformation according to the basic feature options of CI you select;
CITransformation transform = new CITransformation();
transform.format(CIImageFormat.AVIF, CIImageLoadOptions.LoadTypeUrlFooter);
// Build the image `CIImageLoadRequest`
CIImageLoadRequest request = cloudInfinite.requestWithBaseUrlSync(url, transform);
```

Option 2. Loading local AVIF image

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You can use the AVIF format for the application's built-in resources, such as assets, drawable, and raw can reduce the size of the installation package.



```
// Load AVIF images in `Assets`
AVIFImageLoader.displayWithAssets(imageview, assetsName);
// Load AVIF images in `Resource`
AVIFImageLoader.displayWithResource(imageview, R.drawable.avif);
// Load AVIF images in local files
AVIFImageLoader.displayWithFileUri(imageview, fileUri);
```

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iOS SDK
Getting Started

Last updated：2024-03-04 10:30:23

Overview

To make it easier and faster for you to use CI's basic image processing features and CDN's image delivery features, we provide the following five modules for your choice as needed:

Module	Feature
CloudInfinite (default module)	This module contains CI's basic image processing operations and supports freely combining various operations to build URLs for network requests.
Loader	This module uses the `CIImageLoadRequest` instance to request online images and return image data.
TPG	This module decodes and displays general images and TPG images.
AVIF	This module decodes and displays general images and AVIF images (on v1.3.8 or later).
SDWebImage-CloudInfinite	This module provides CI's basic image processing features based on the SDWebImage and CloudInfinite modules.

Note:

For more information on TPG, see TPG Compression.

For more information on AVIF, see AVIF Compression.

Resources

For SDK source codes and demos, see CI iOS SDK.

For SDK APIs and parameters, see SDK API.

For the SDK changelog, see Changelog.

Preparations

1. Prepare an iOS application; this can be an existing project or a new empty project.

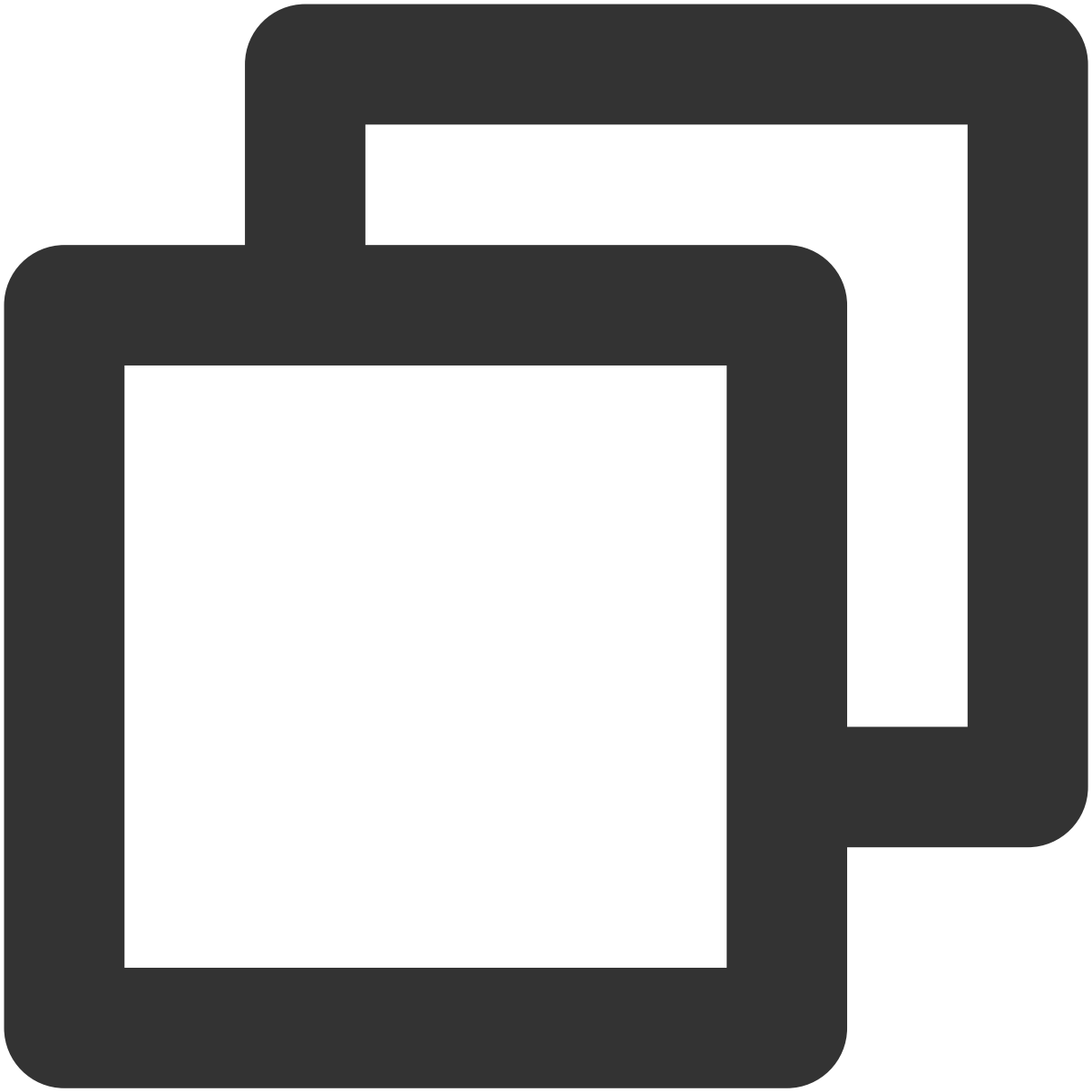
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2. Make sure that the application is built using an SDK running on iOS 8.0 or above.

Step 1. Install the SDK CloudInfinite module

Main features of the CloudInfinite module:
It contains CI's basic image processing operations, such as image scaling, cropping, rotation, format conversion, quality change, Gaussian blur, sharpening, watermarking, and image theme color acquisition.
It encapsulates each operation as a TransformItem and supports freely combining basic operations to build URLs for direct network requests.
Integration via CocoaPods
Note:
We recommend you use the CocoaPods method. The steps for integrating related modules are the same and will not be repeated.
1. Add the module to your project's Podfile:

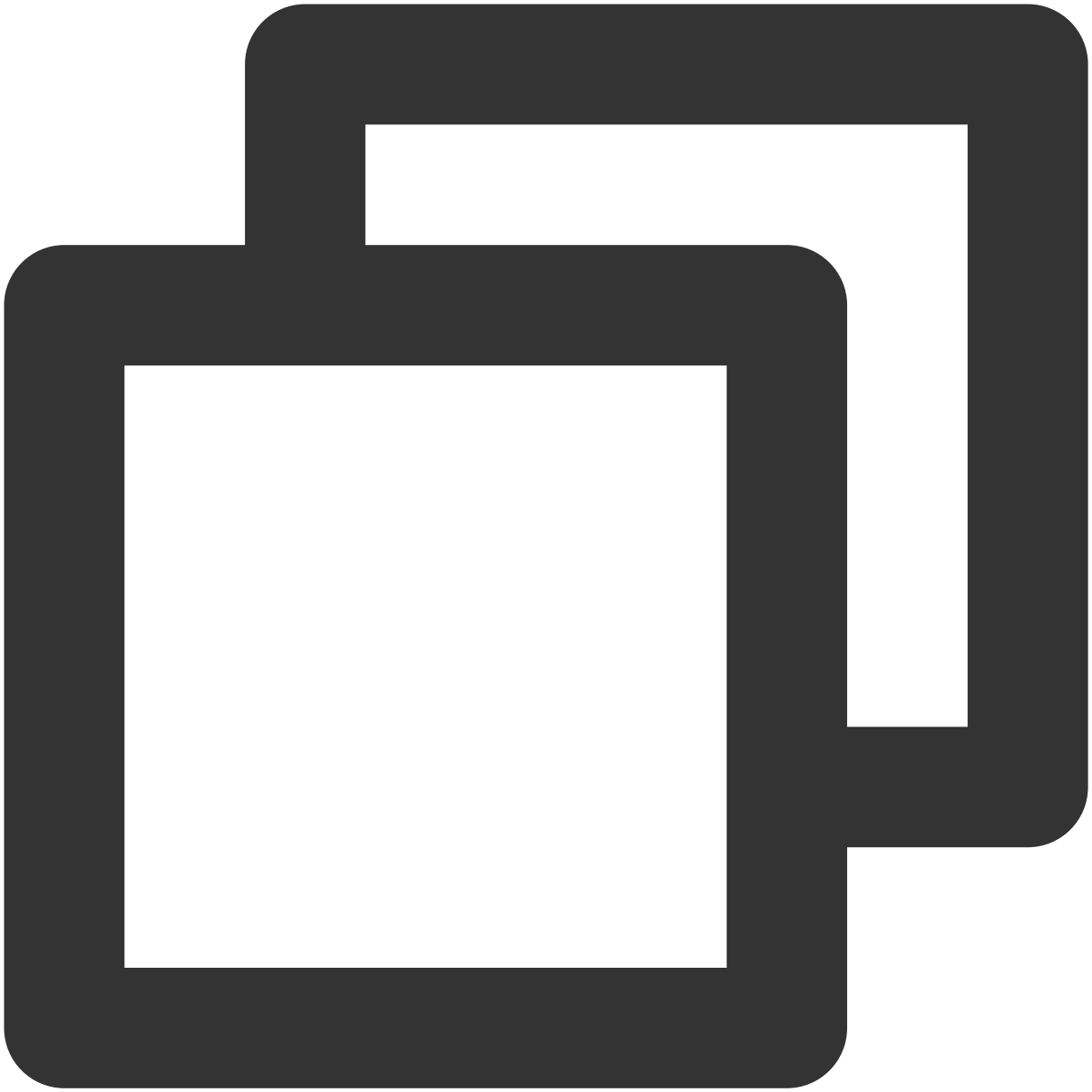
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```
pod 'CloudInfinite'
```

2. Run the installation command in the terminal:

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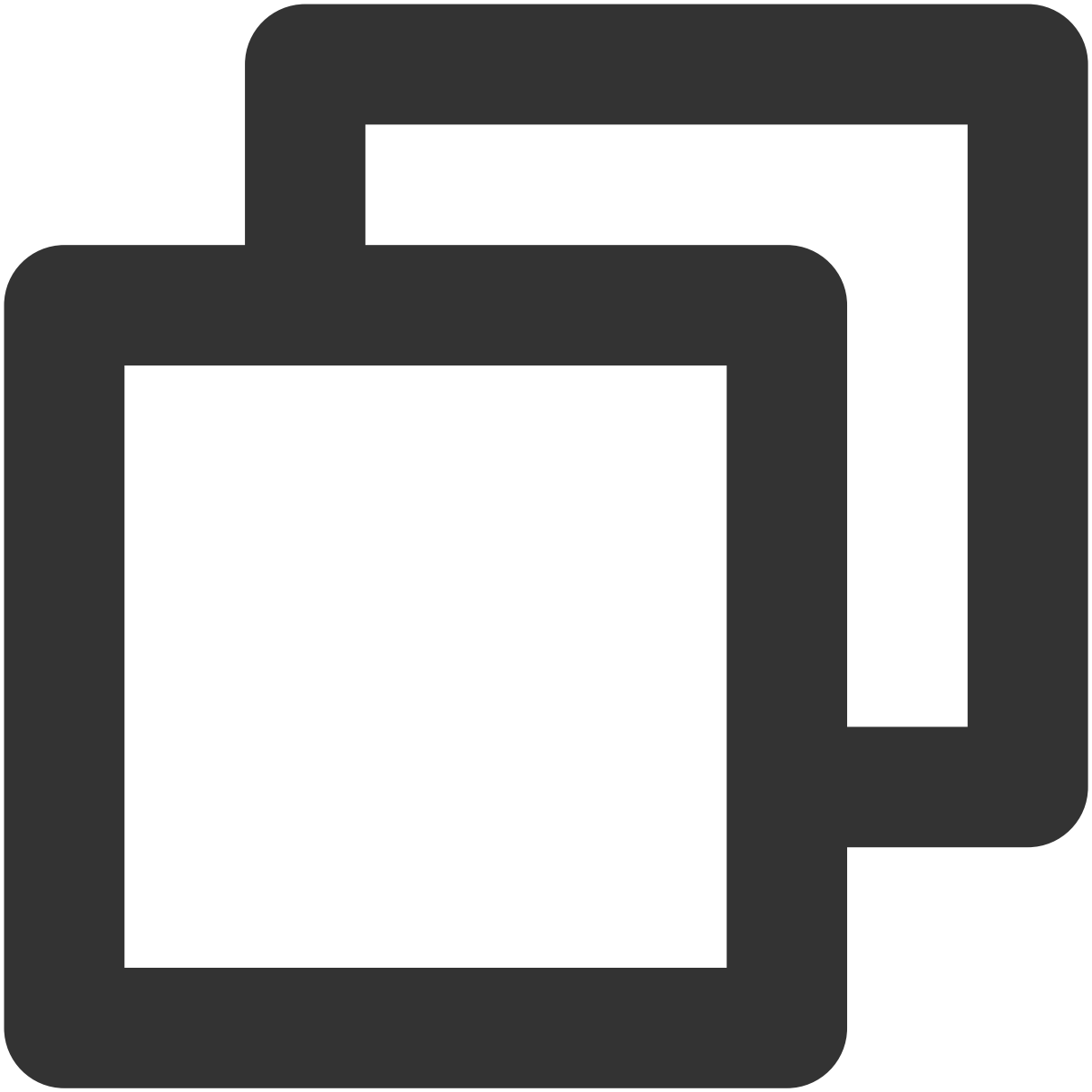
```
pod install
```

Step 2. Start using

Importing header files

Objective-C

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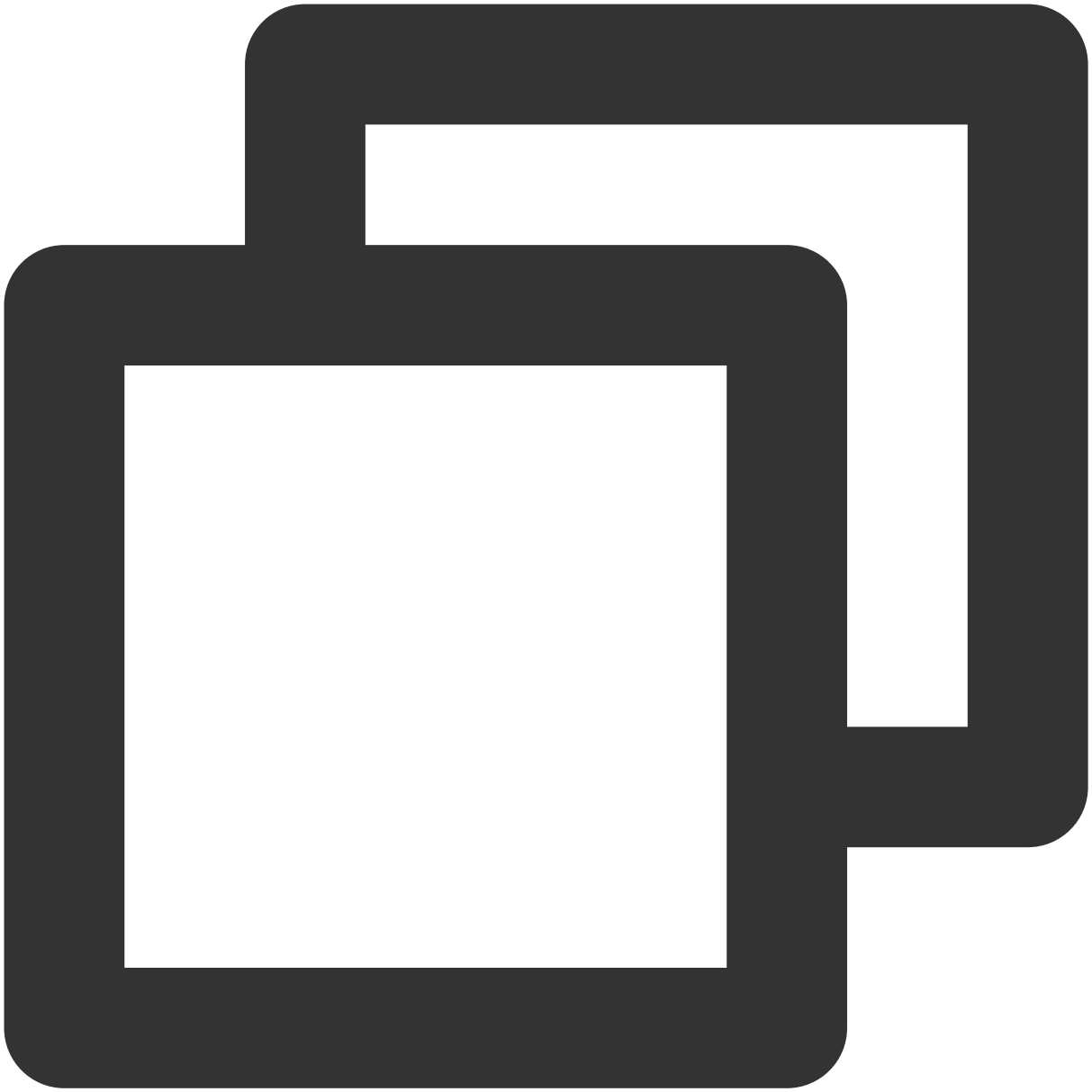


```
#import <CloudInfinite.h>
```

swift

Add project name-Bridging-Header in the bridging file.

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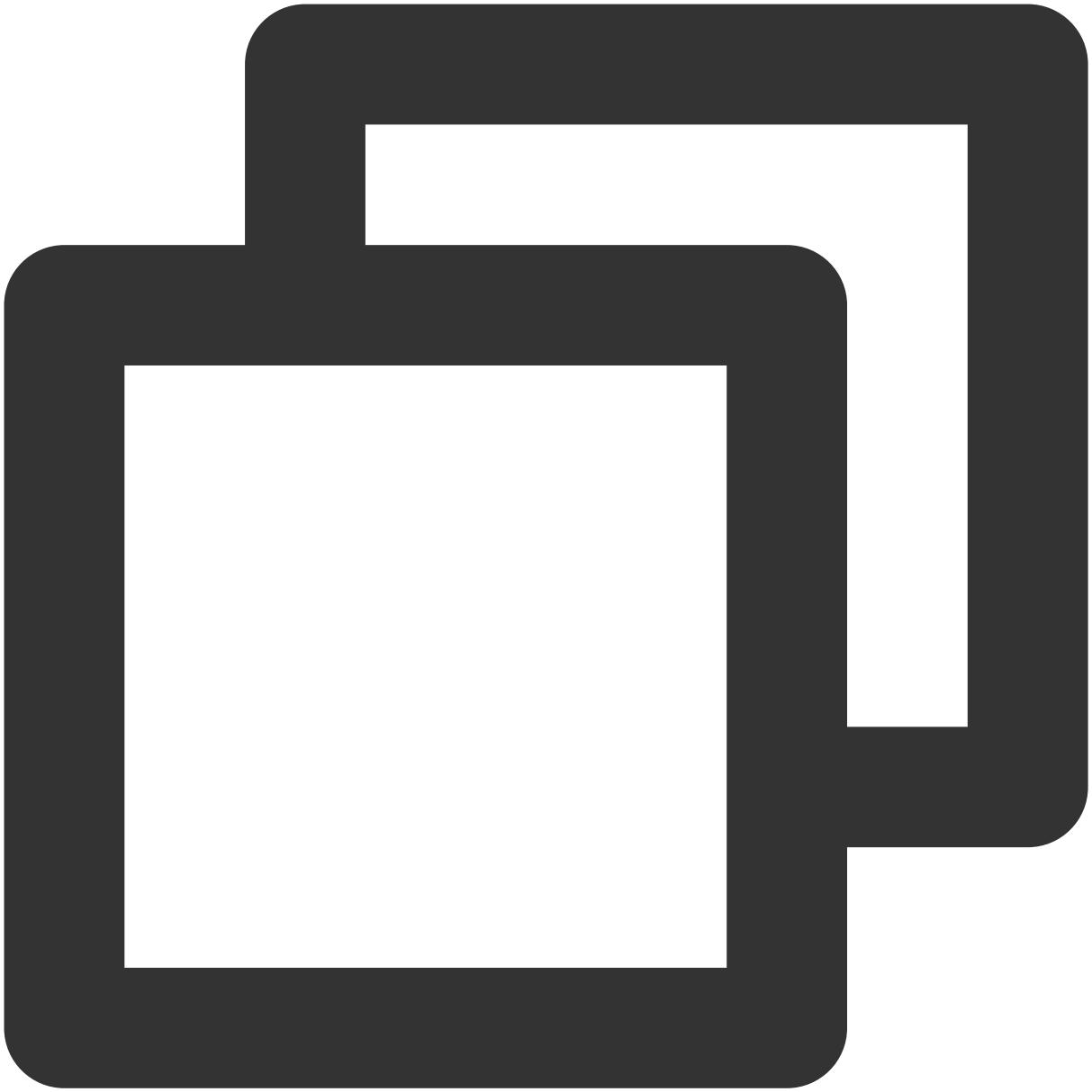
```
#import <CloudInfinite.h>
```

Build the CIImageLoadRequest instance

1. When using CloudInfinite to build a CI-enabled image URL, you first need to instantiate the CloudInfinite class.

Objective-C

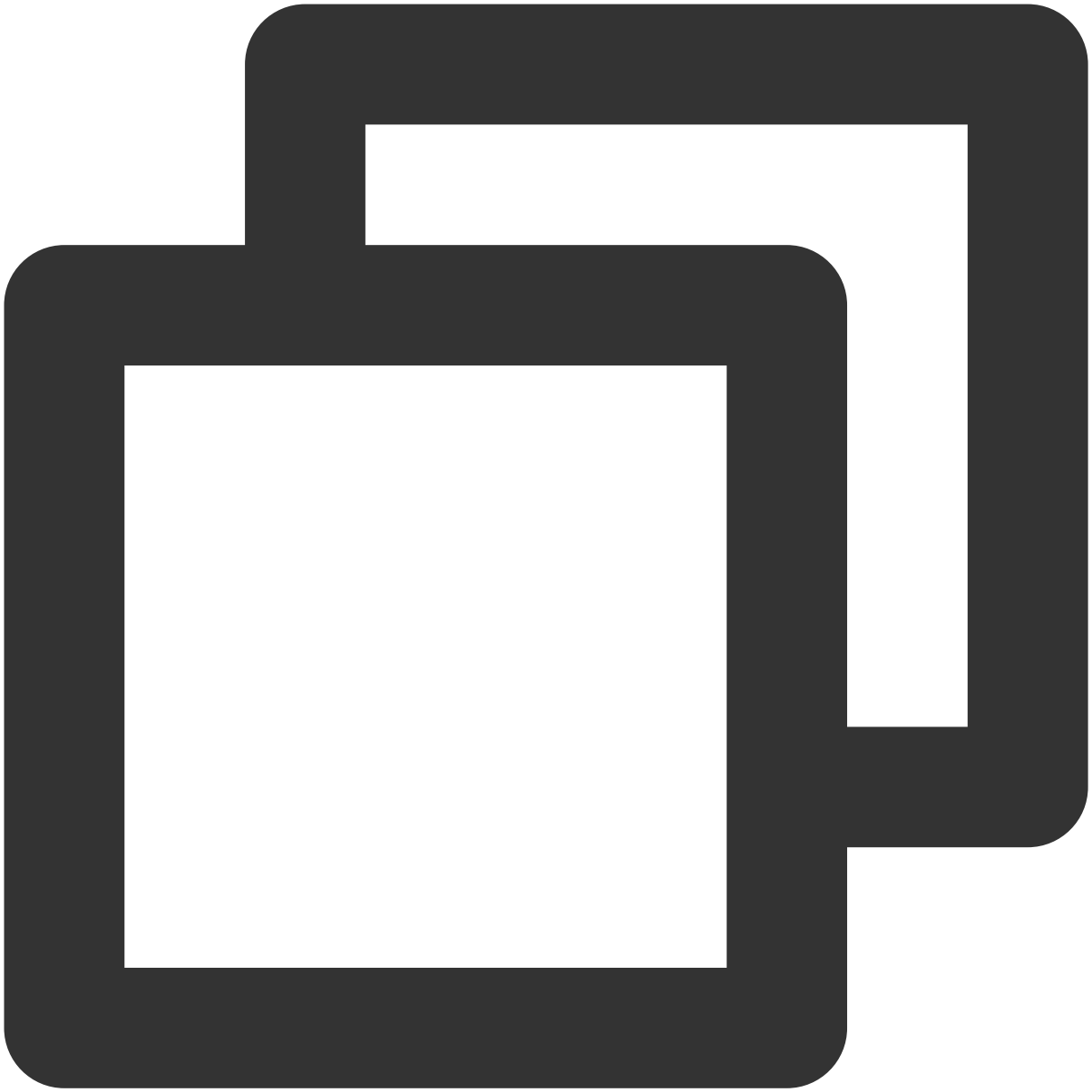
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```
    CloudInfinite * cloudInfinite = [CloudInfinite new];
```

swift

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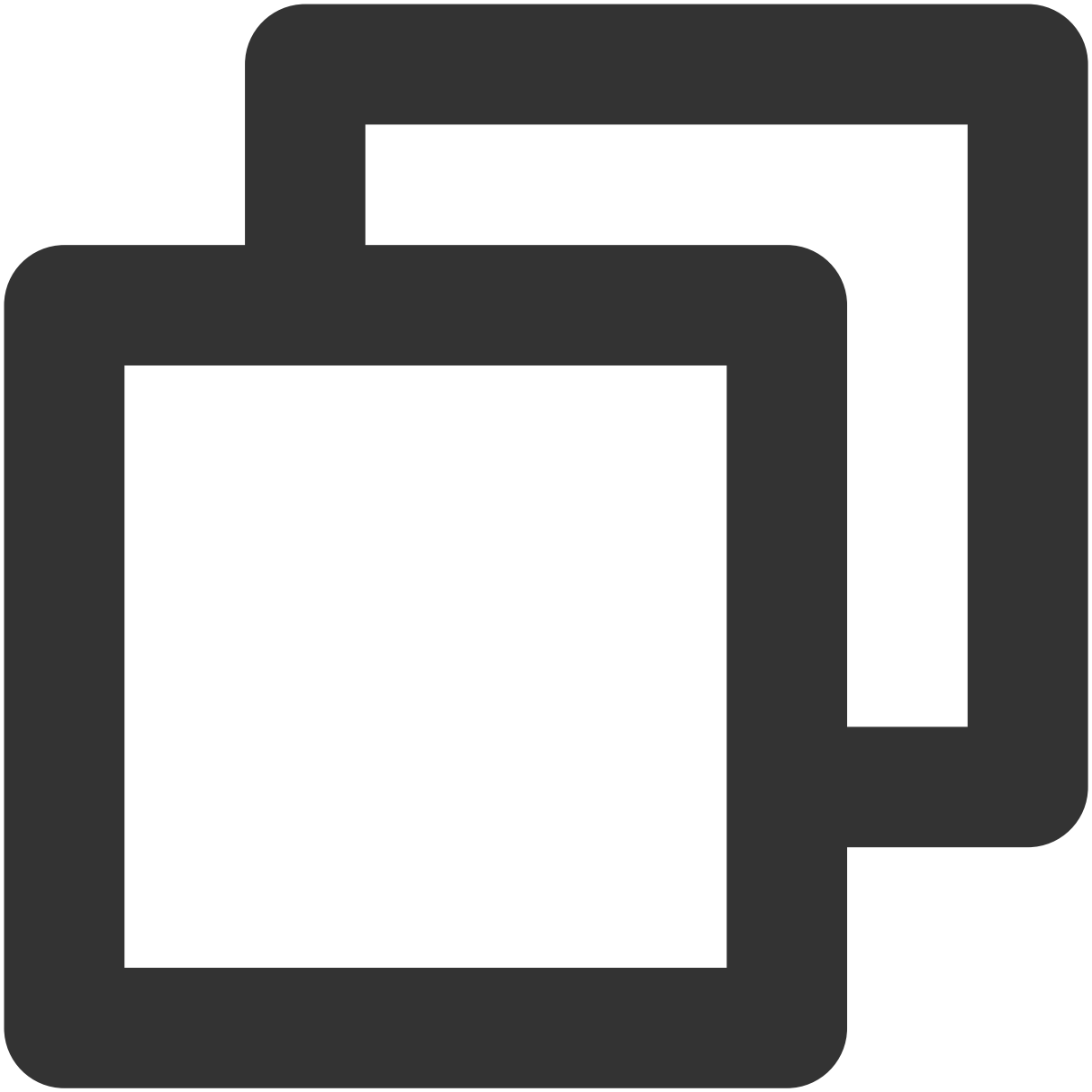


```
let cloudInfinite = CloudInfinite();
```

2. Instantiate the image transformation class `CITransformation` and set related operations. The following takes TPG as an example.

Objective-C

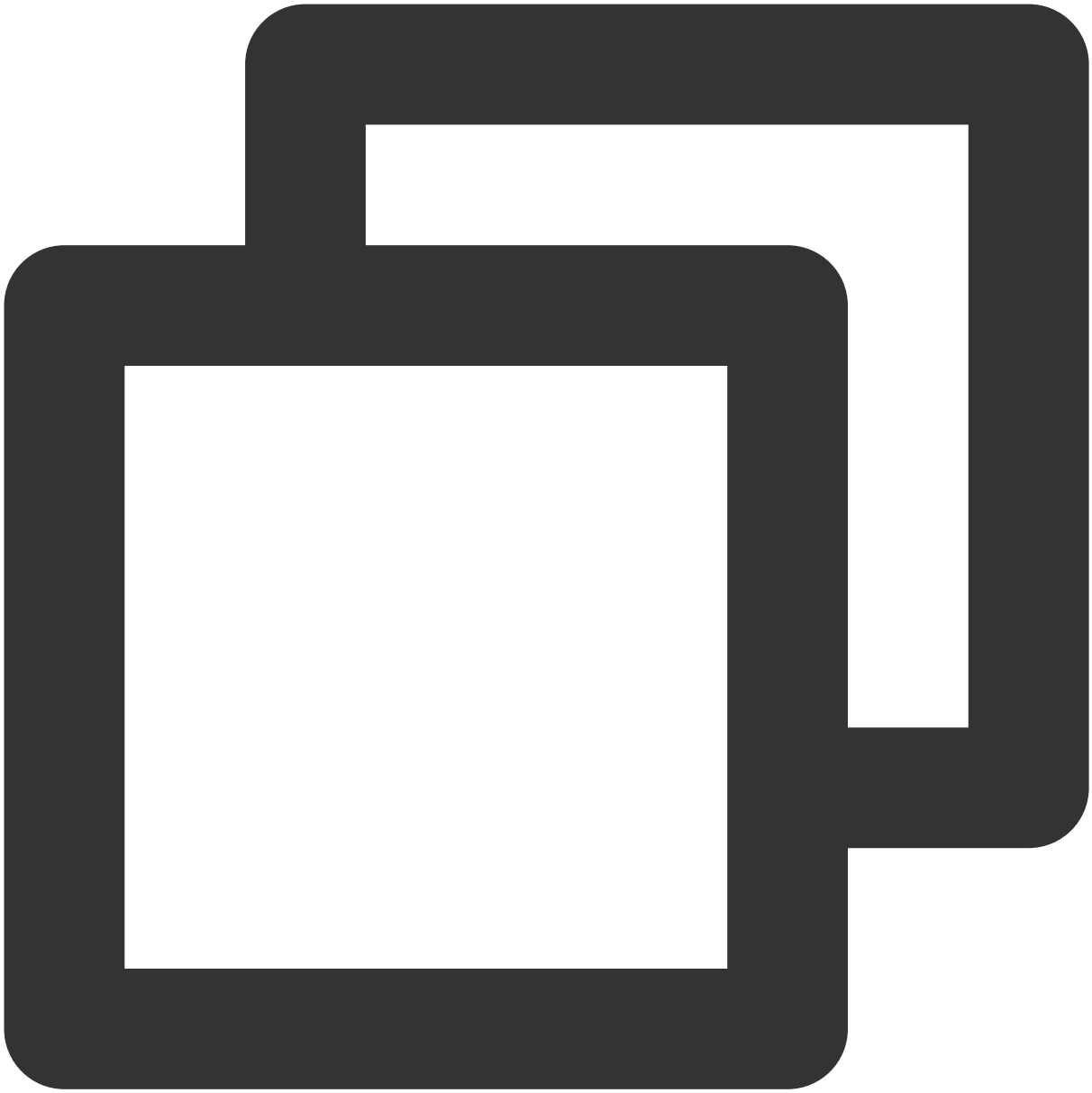
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```
CITransformation * transform = [CITransformation new];
[transform setFormatWith:CIImageTypeTPG options:CILoadTypeUrlFooter];
```

swift

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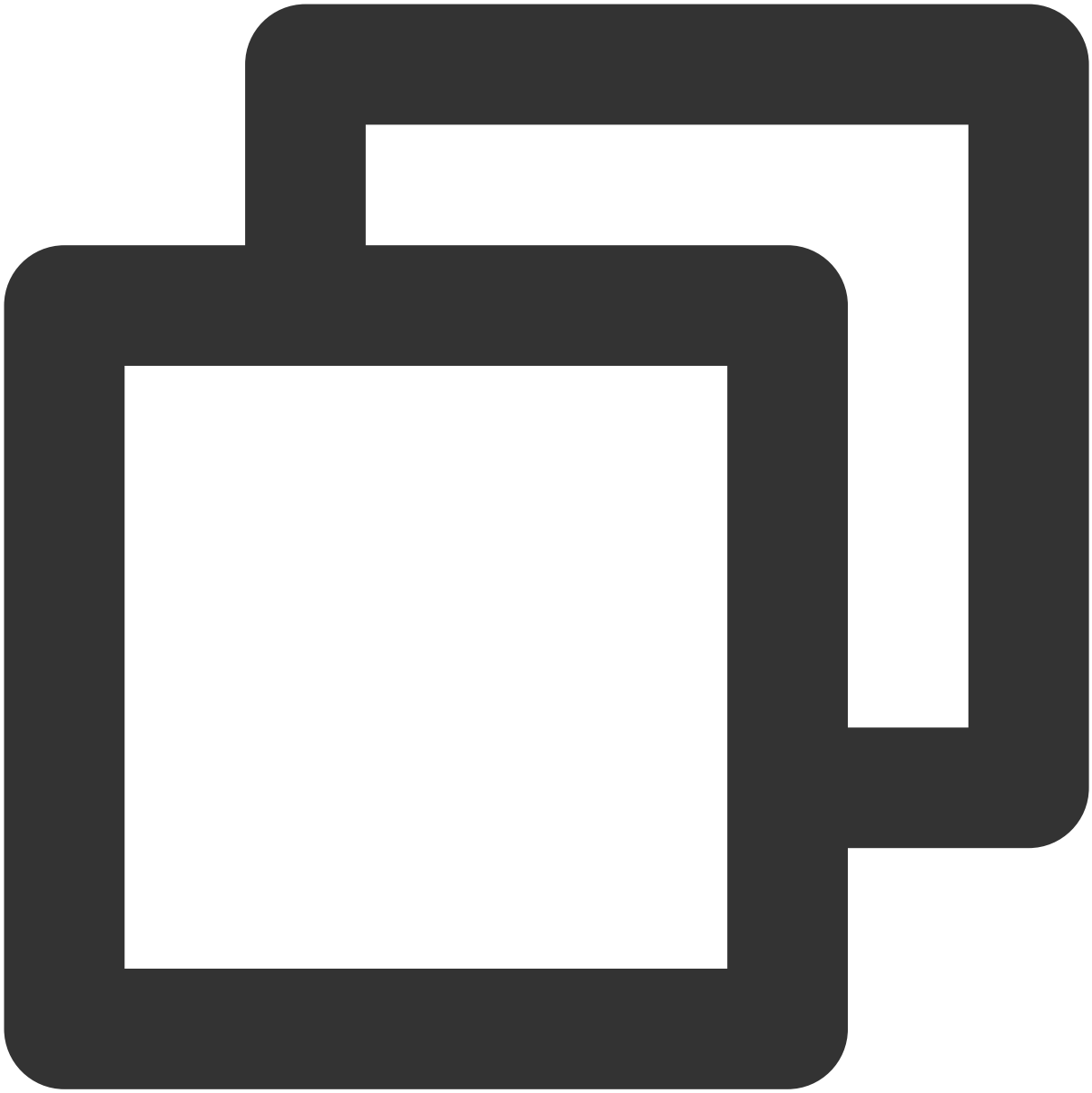
```
let transform = CITransformation();
transform.setFormatWith(CIImageFormat.typeTPG, options: CILoadTypeEnum.urlFoote
```

3. Use the CloudInfinite instance to construct a CI-enabled image URL.

Build synchronously

Objective-C

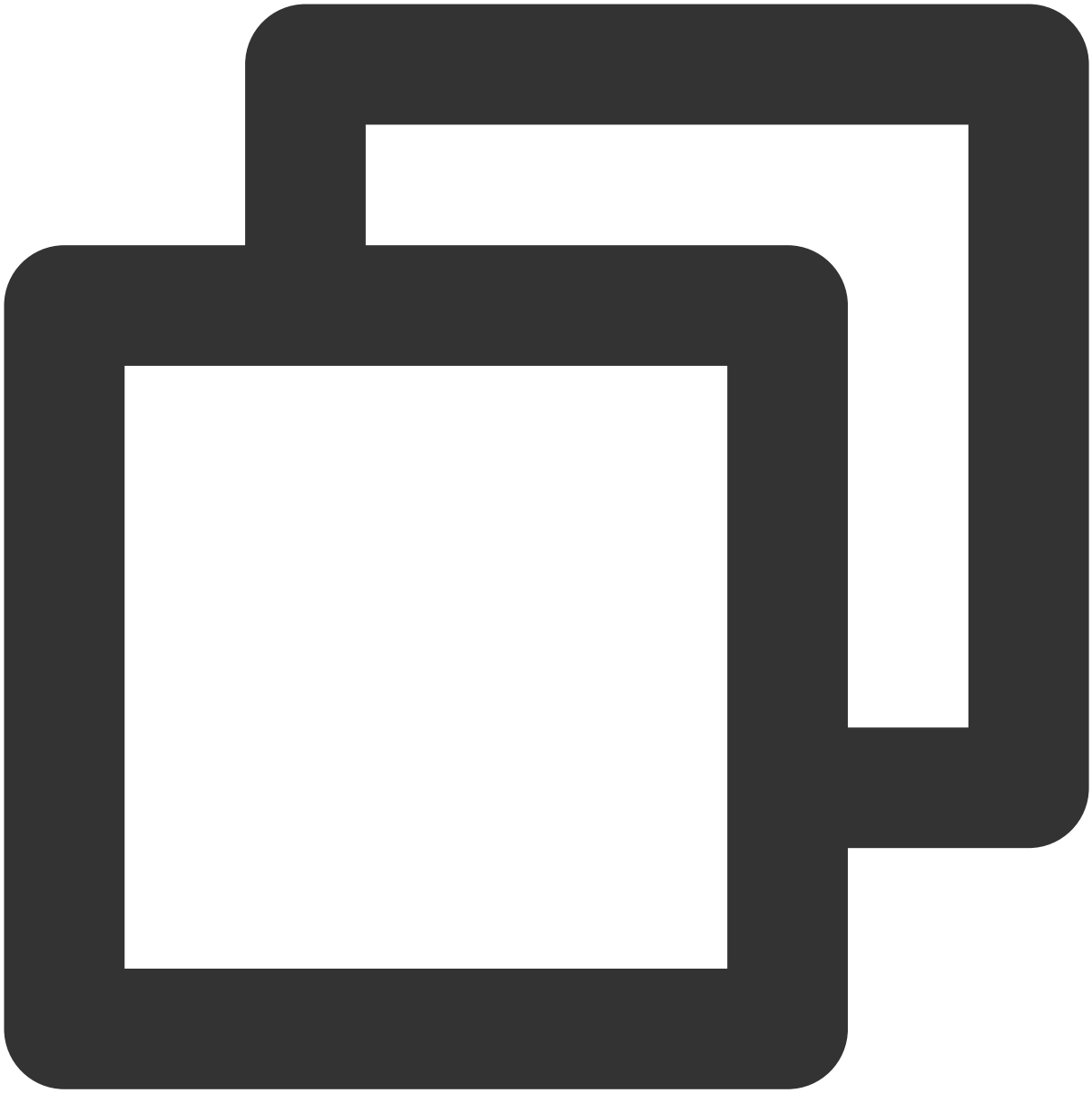
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```
    CIImageLoadRequest * imageloadRequest = [cloudInfinite requestWithBaseUrl:@"Ima
    // Image URL
    NSURL * imageURL = imageloadRequest.url;
    // Header parameter
    NSString * heaer = imageloadRequest.header;
```

swift

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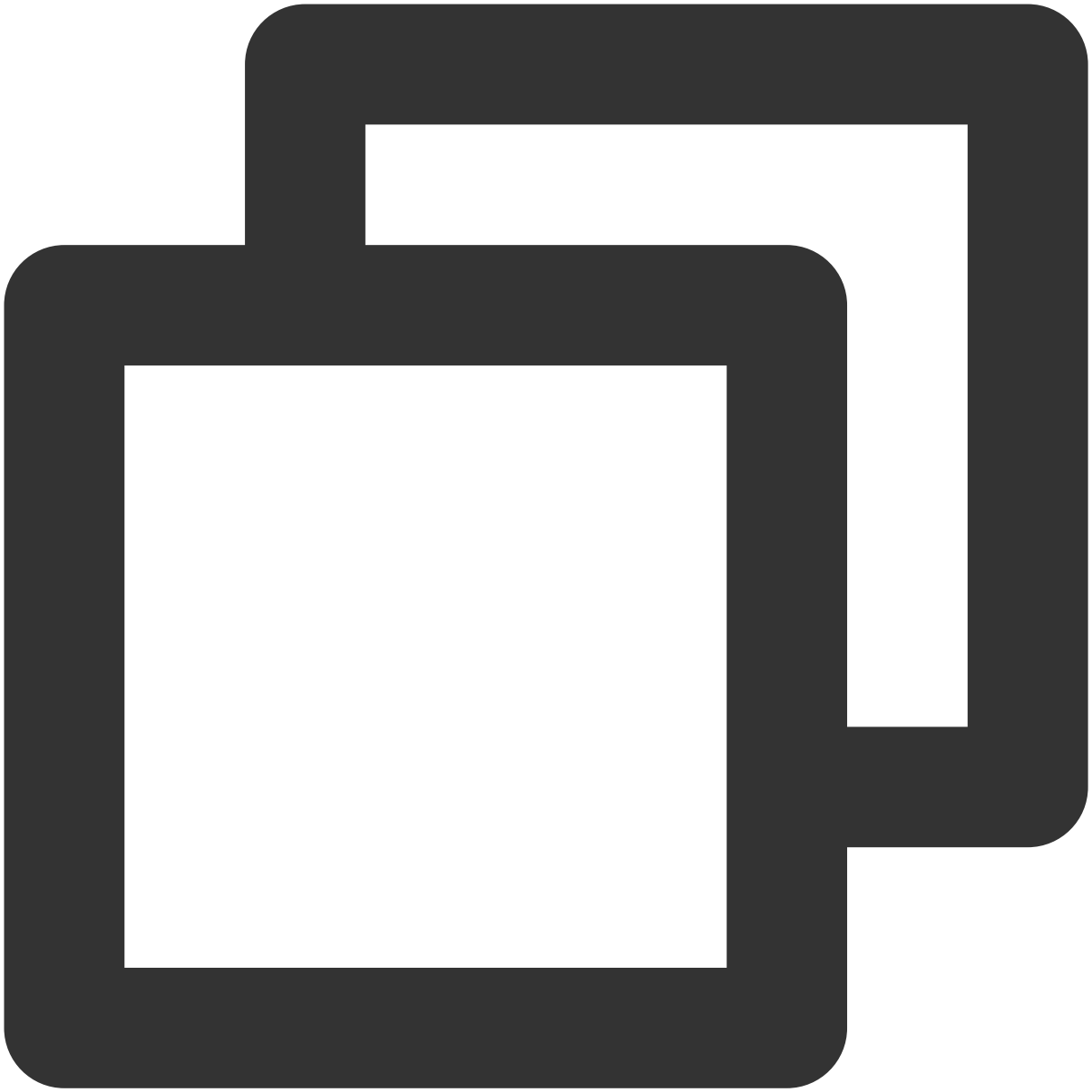


```
let imageloadRequest = cloudInfinite.request(withBaseUrl: "Image URL", transfor
// Image URL
let imageURL = imageloadRequest.url;
// Header parameter
let heaer = imageloadRequest.header;
```

Build asynchronously

Objective-C

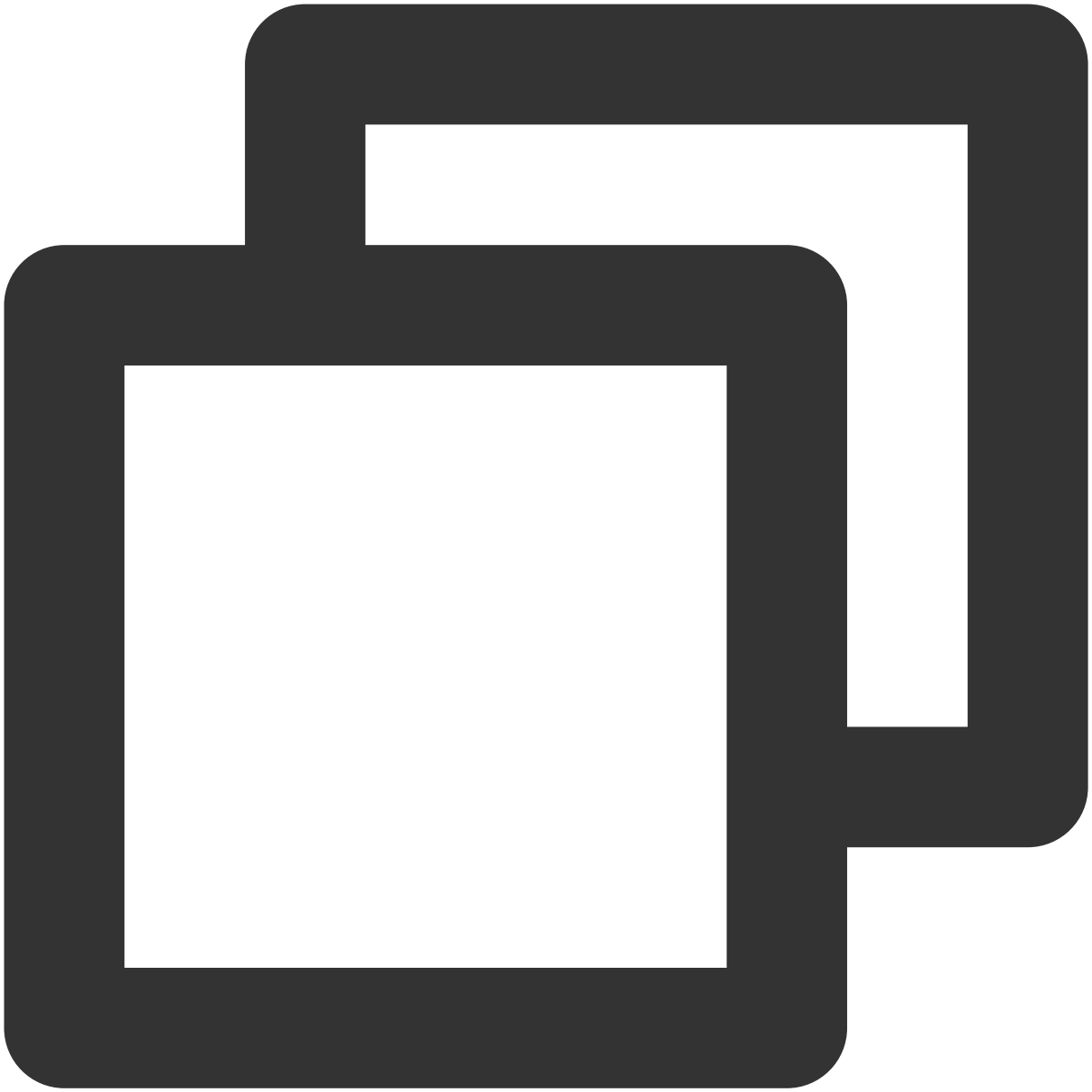
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```
    [cloudInfinite requestWithBaseUrl:@"image link" transform:transform request:^(C
        // Image URL
        request.url;
        // Header parameter
        request.header;
    }];
```

swift

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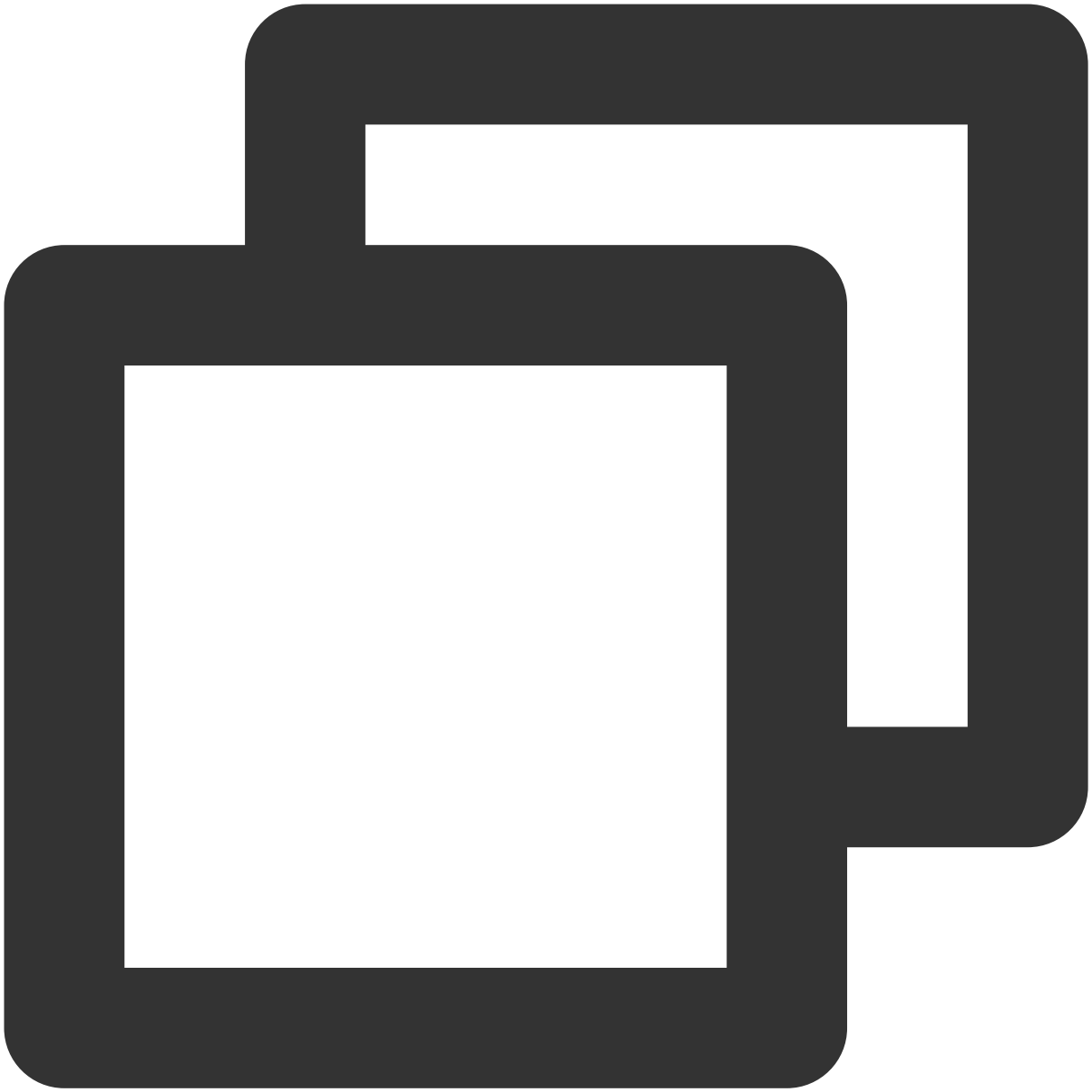


```
cloudInfinite.request(withBaseUrl: "", transform: transform) { (request) in
    // Image URL
    request.url;
    // Header parameter
    request.header;
};
```

The header parameter of `CIImageLoadRequest` is valid only when image format conversion is performed and `options` is set to `loadtypeacceptheader` .

When using a custom loader to request an image, if the header needs to be used, concatenate it as follows:

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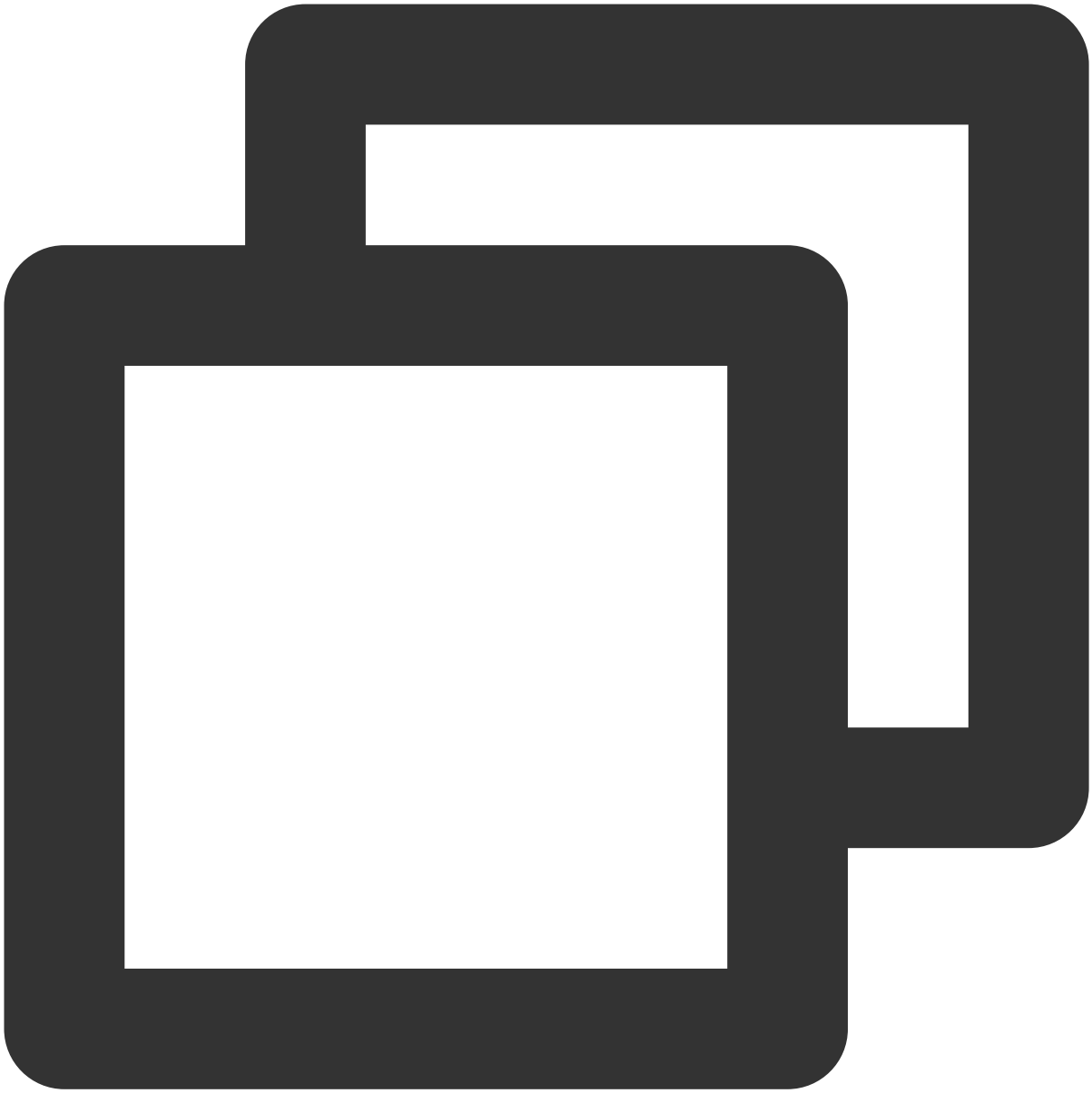


```
NSDictionary * header = @{@"accept":[NSString stringWithFormat:@"image/%@",request.
```

Step 3. Load an image

After successfully constructing a `CIImageLoadRequest` instance, use the CloudInfinite/Loader module to load images. Integrate the CloudInfinite/Loader module as follows:

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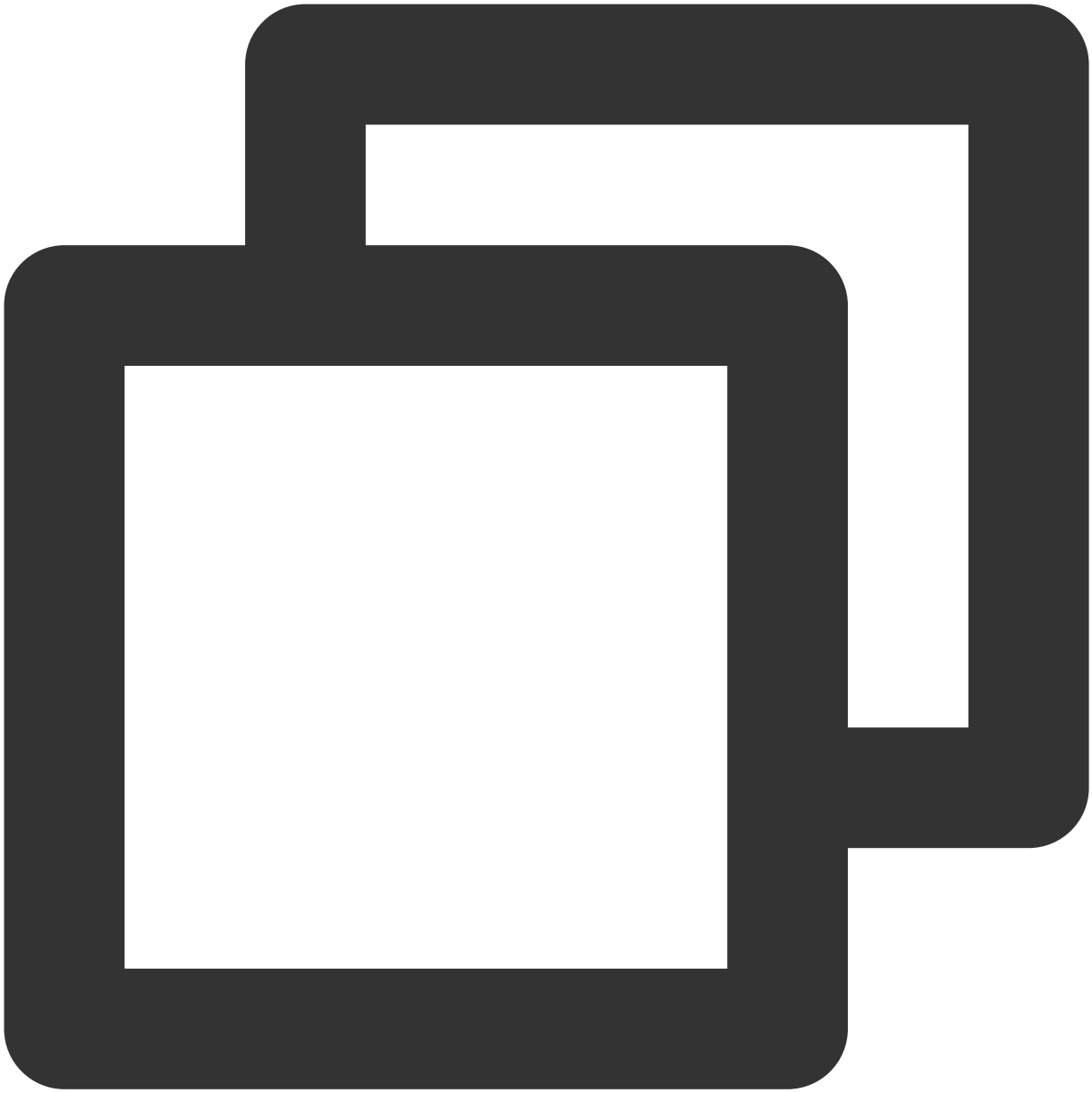
```
pod 'CloudInfinite/Loader'
```

Requesting image data

Request the image `NSData` , which is suitable for requesting TPG images (with the TPG decoding module required) or images that require additional processing of binary data.

Objective-C

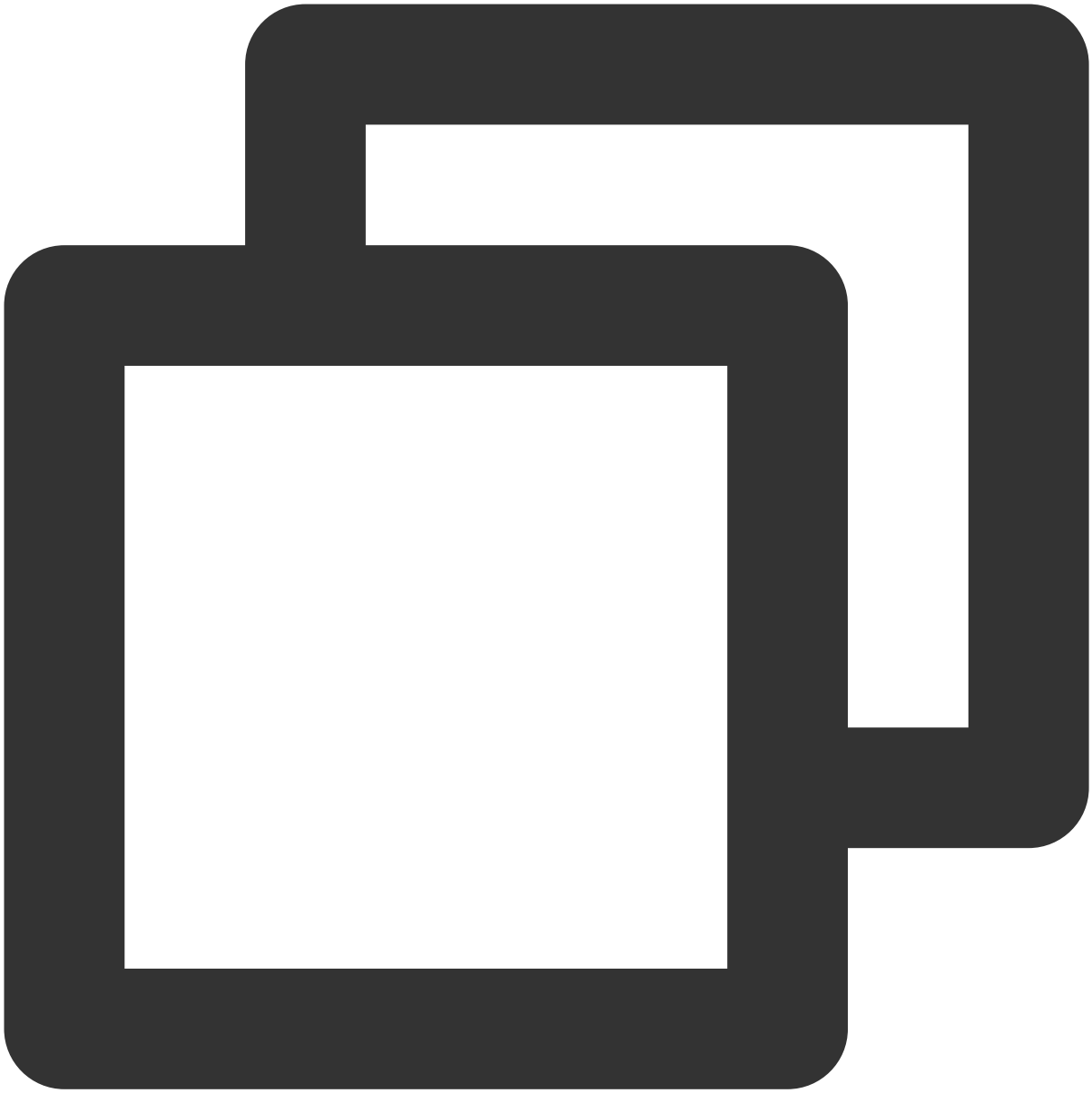
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```
// `request` is the `CIImageLoadRequest` instance successfully constructed in the p
[[CIImageLoader shareLoader] loadData:request loadComplete:^(NSData * _Nullable dat
    // `data` is the obtained image data.
}];
```

swift

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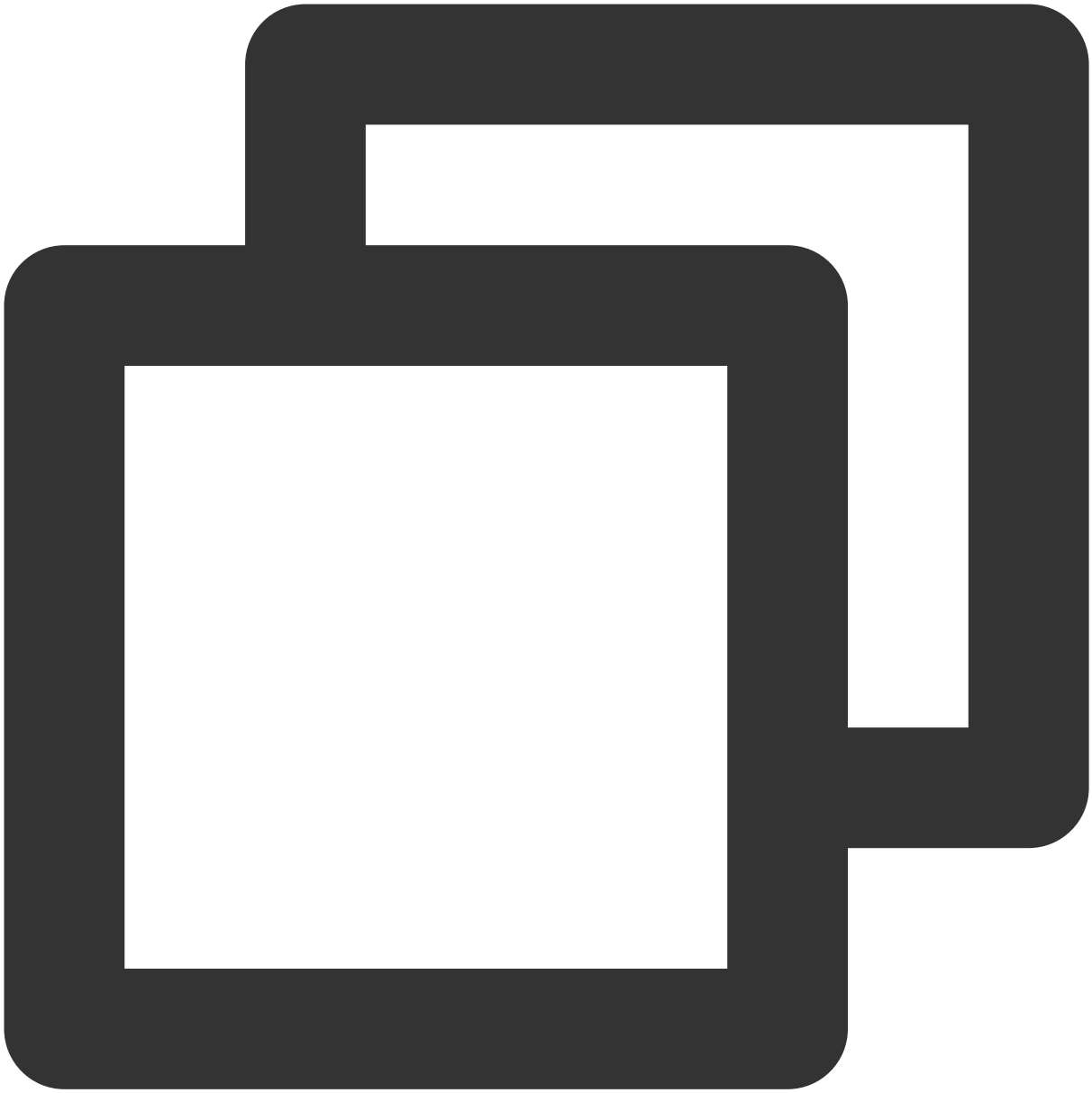


```
// `request` is the `CIImageLoadRequest` instance successfully constructed in the p
CIImageLoader.share().loadData(request) { (data, error) in
    // `data` is the obtained image data.
};
```

Loading general image

Objective-C

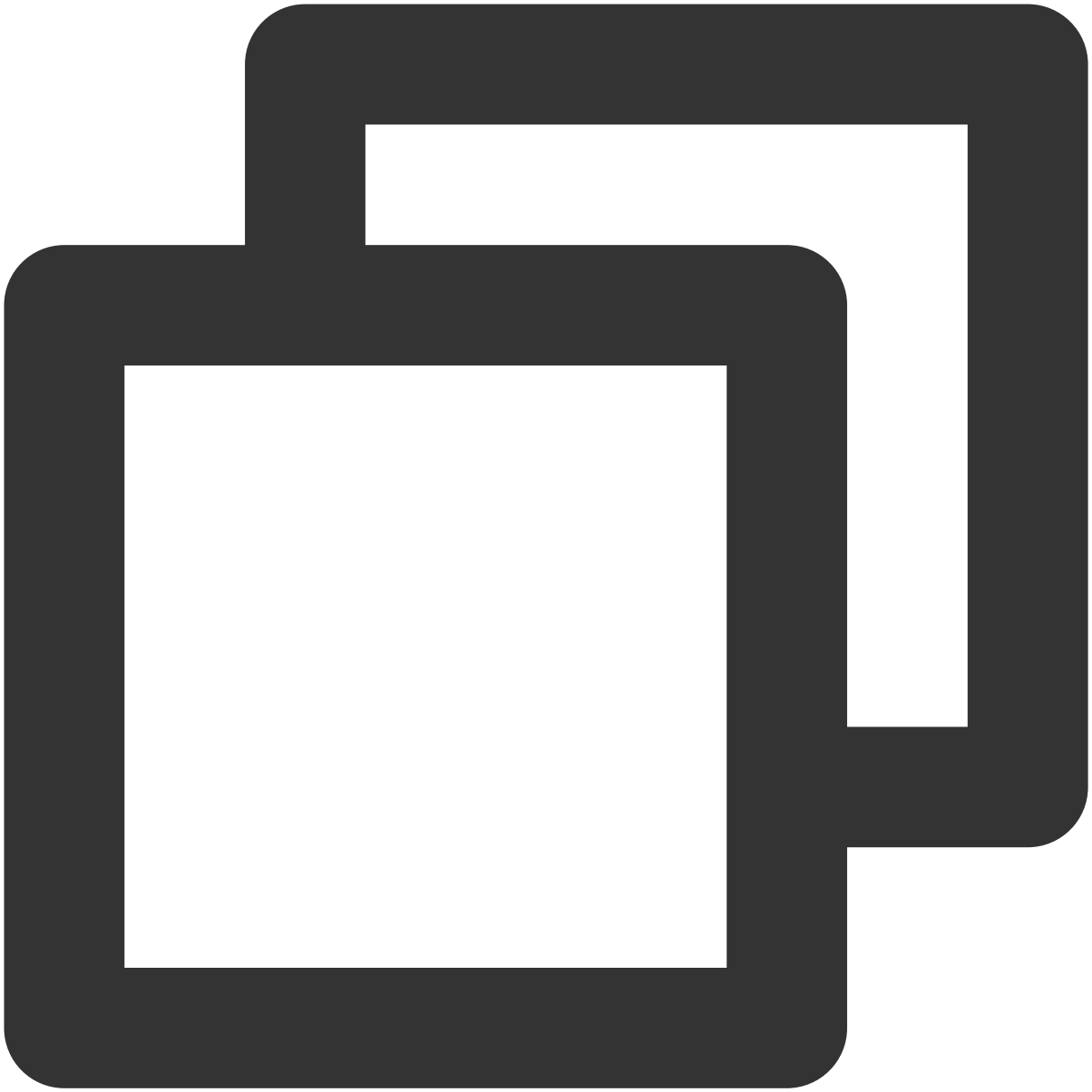
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```
// Pass in the image control `imageView` and the successfully constructed `CIImageL
[[CIImageLoader shareLoader]display:imageView loadRequest:request placeHolder:nil l
        // `data` is the obtained image data.
}];
```

swift

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```
// Pass in the image control `imageView` and the successfully constructed `CIImageL
CIImageLoader.share().display(imageView, loadRequest: request, placeHolder: nil) {
        // `data` is the obtained image data.
};
```

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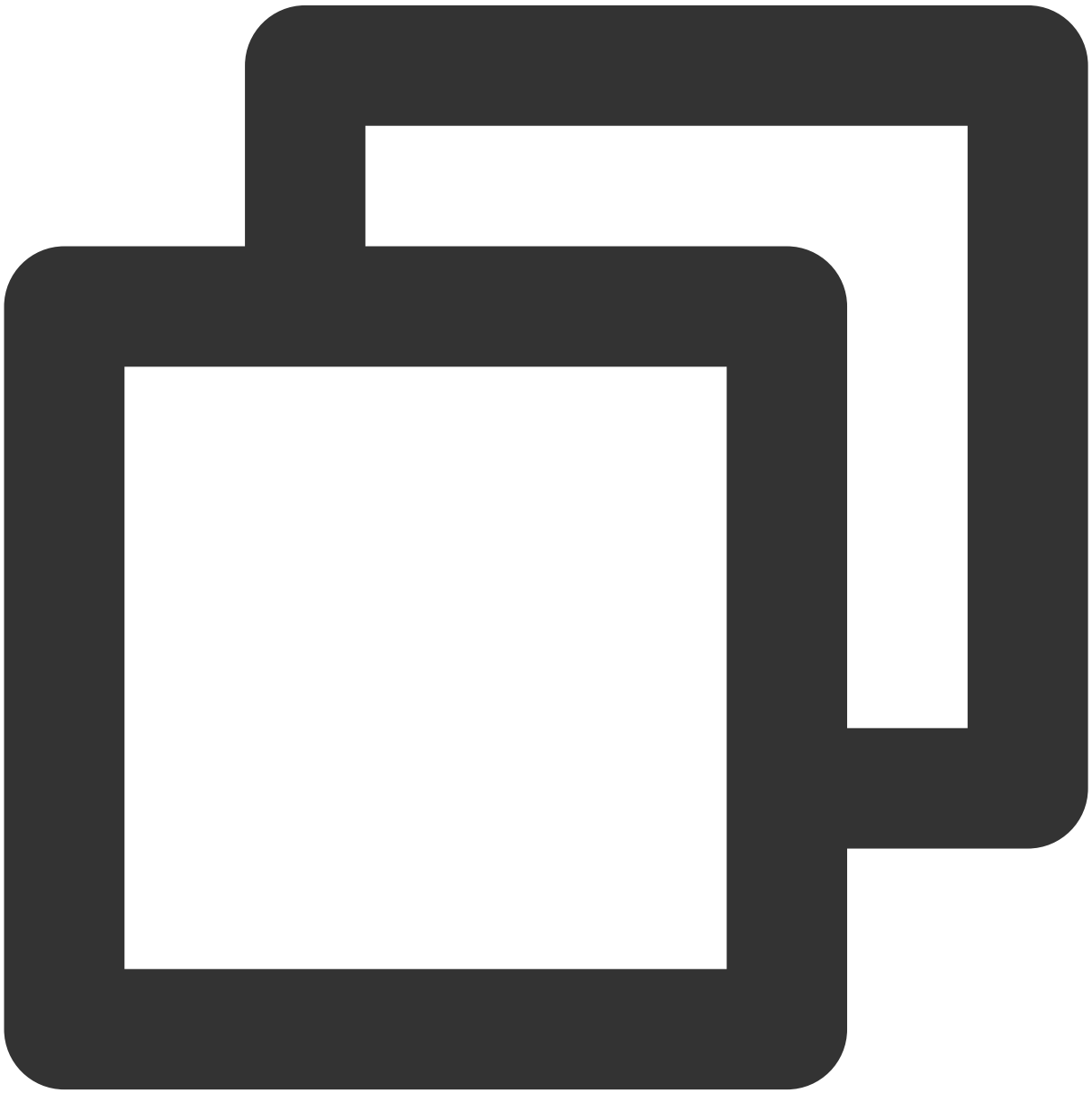
Loading TPG Image

Last updated：2024-03-04 10:30:23

This document provides two ways to load TPG images: loading online and using the TPG module.

Option 1. Loading online TPG image

1. Integrate `CloudInfinite` .

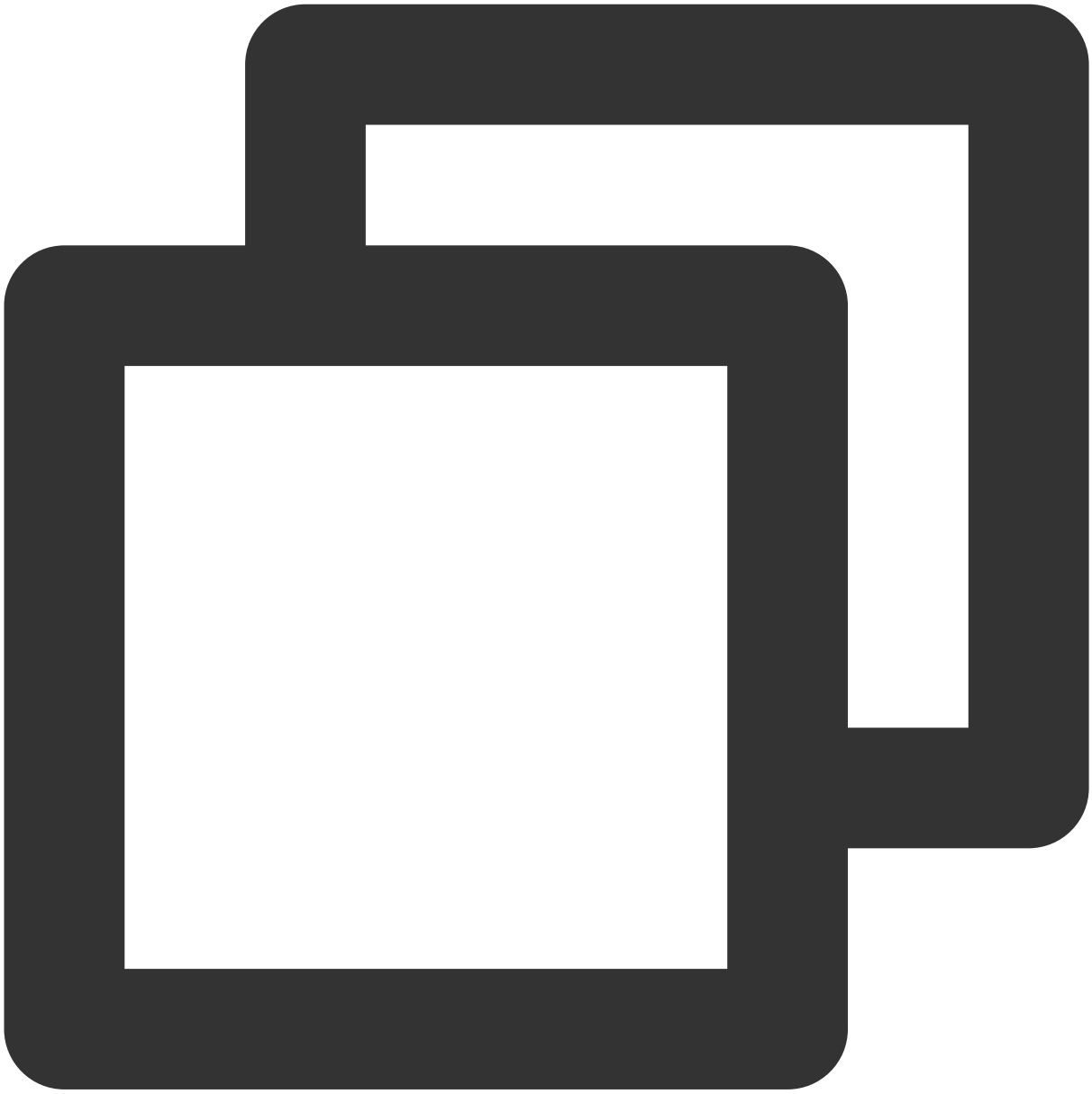


```
pod 'CloudInfinite'
```

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2. Build a link requesting TPG images in the `CloudInfinite` module, and then use it with SDWebImage to load online TPG images.

Objective-C



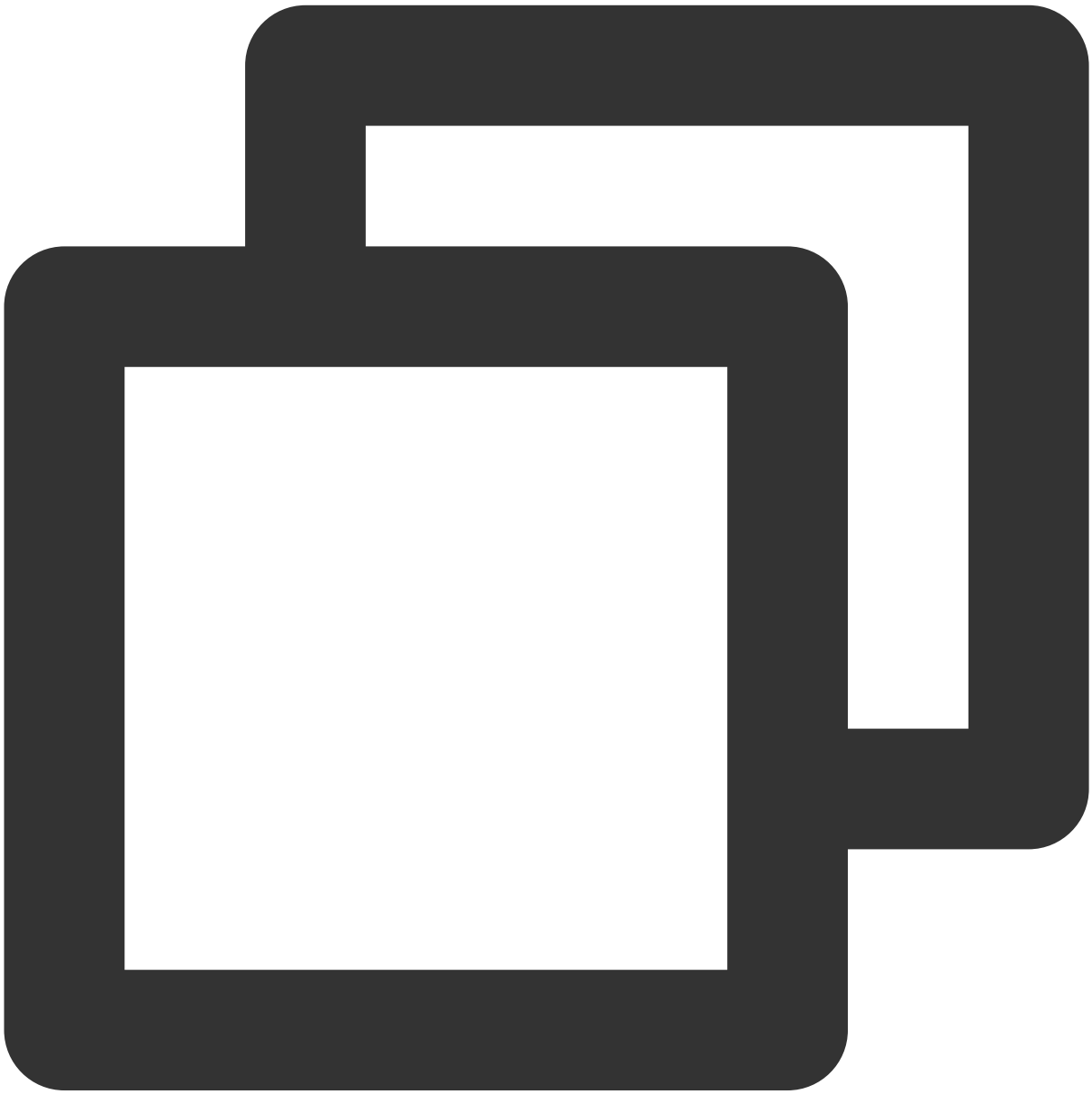
```
// Instantiate `CloudInfinite` to build an image request link;
CloudInfinite * cloudInfinite = [CloudInfinite new];

// Build `CIImageLoadRequest` according to the basic feature options of CI you sele
CITransformation * transform = [CITransformation new];
[transform setFormatWith:CIImageTypeTPG options:CILoadTypeUrlFooter];
```

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```
// Build the image `CIImageLoadRequest`
[cloudInfinite requestWithBaseUrl:@"image link" transform:transform request:^(CIIma
    // Request the successfully built `CIImageLoadRequest` instance.
}];
```

swift



```
// Instantiate `CloudInfinite` to build an image request link;
let cloudInfinite = CloudInfinite();

// Build `CIImageLoadRequest` according to the basic feature options of CI you sele
```

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```
let transform = CITransformation();
transform.setFormatWith(CIImageFormat.typeTPG, options: CILoadTypeEnum.urlFooter);

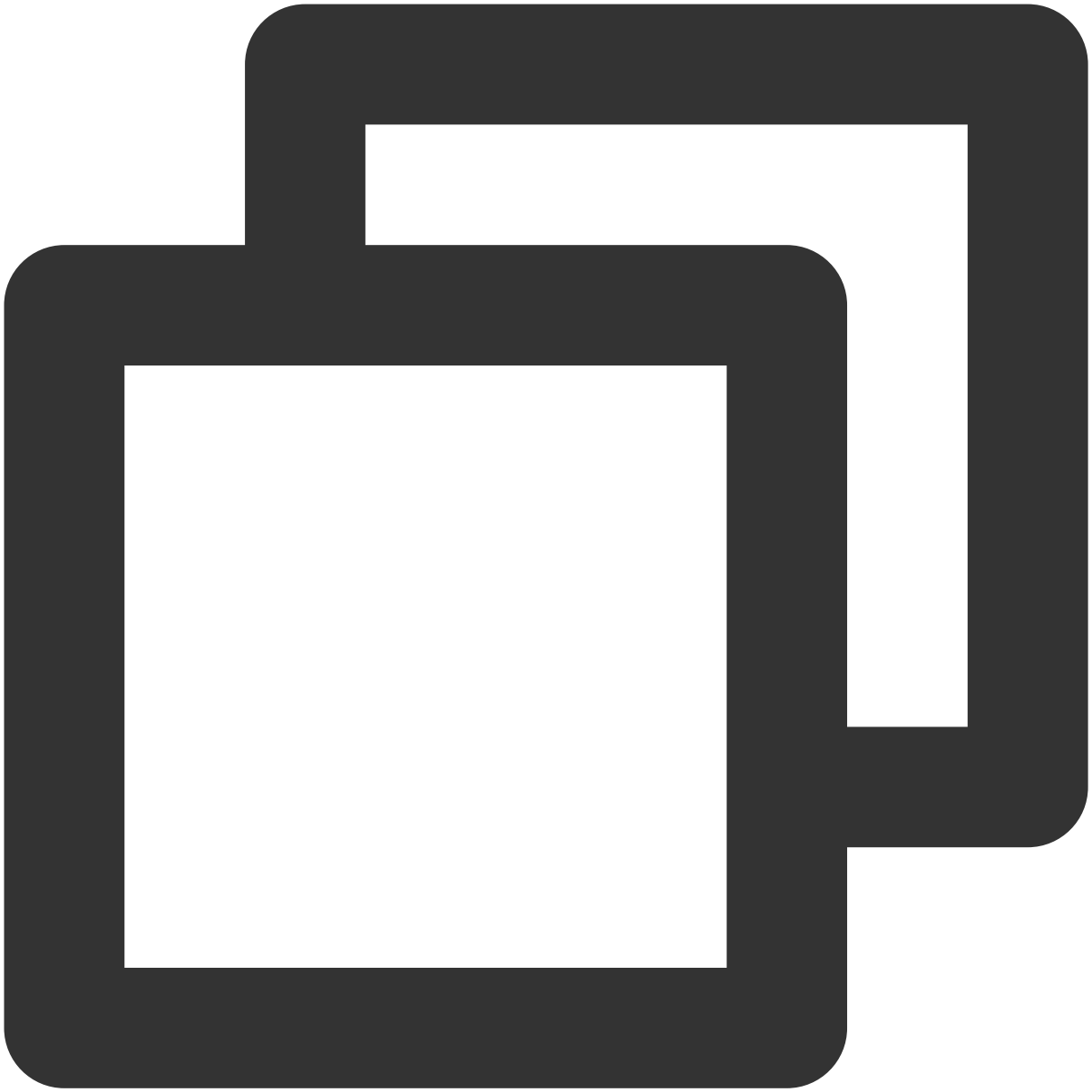
// Build the image `CIImageLoadRequest`
cloudInfinite.request(withBaseUrl: "image link", transform: transform) { (request)
    // Request the successfully built `CIImageLoadRequest` instance.
}
```

Option 2. Using TPG module to load TPG image

You can use the TPG module to load TPG image data, which supports TPG animated images with no additional processing needed.

1. Integrate the TPG module.

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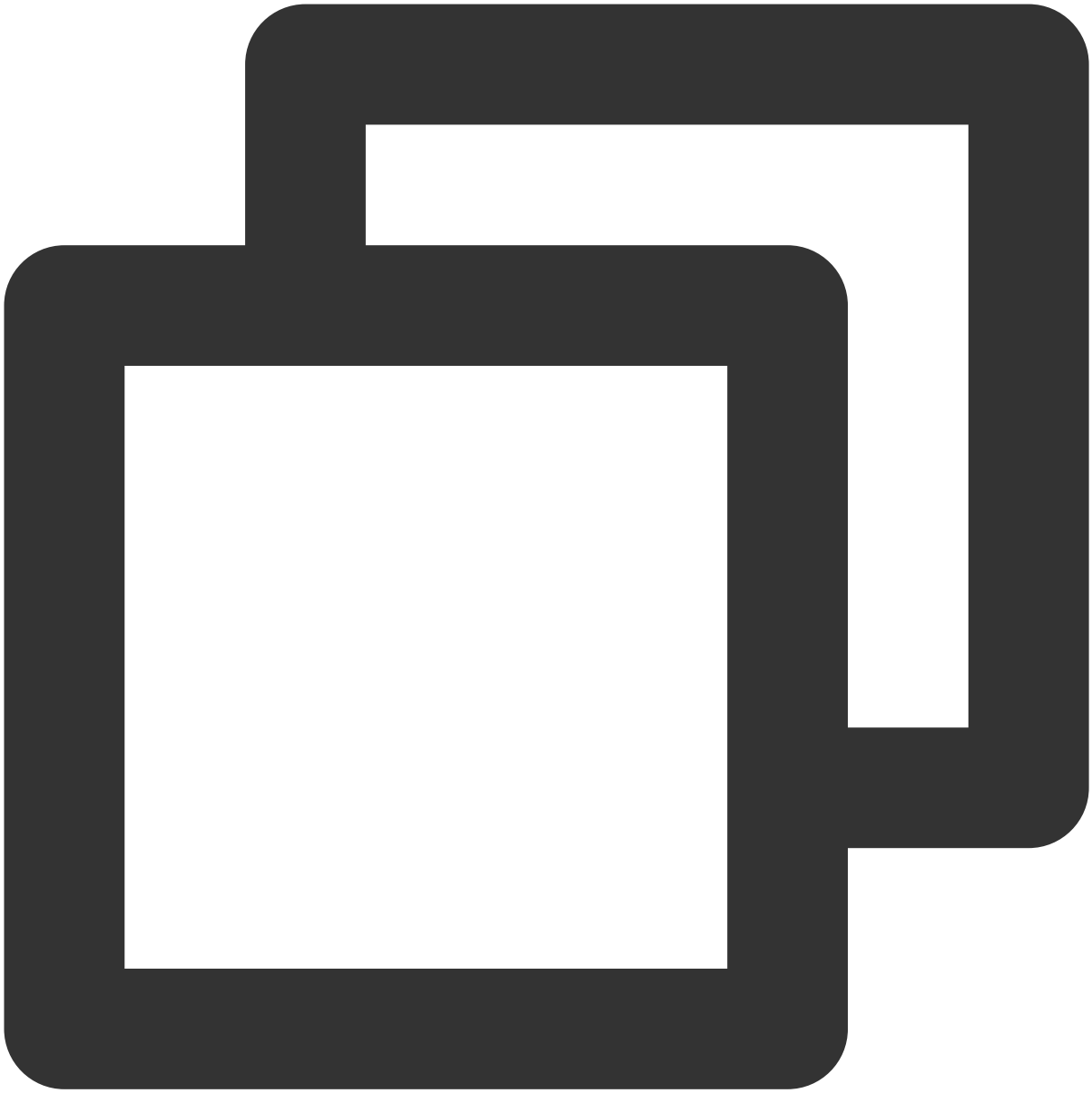


```
pod 'CloudInfinite/TPG'
```

2. If the TPG image data has been obtained, directly use the UIImageView+TPG class of the TPG module to decode and display the image.

Objective-C

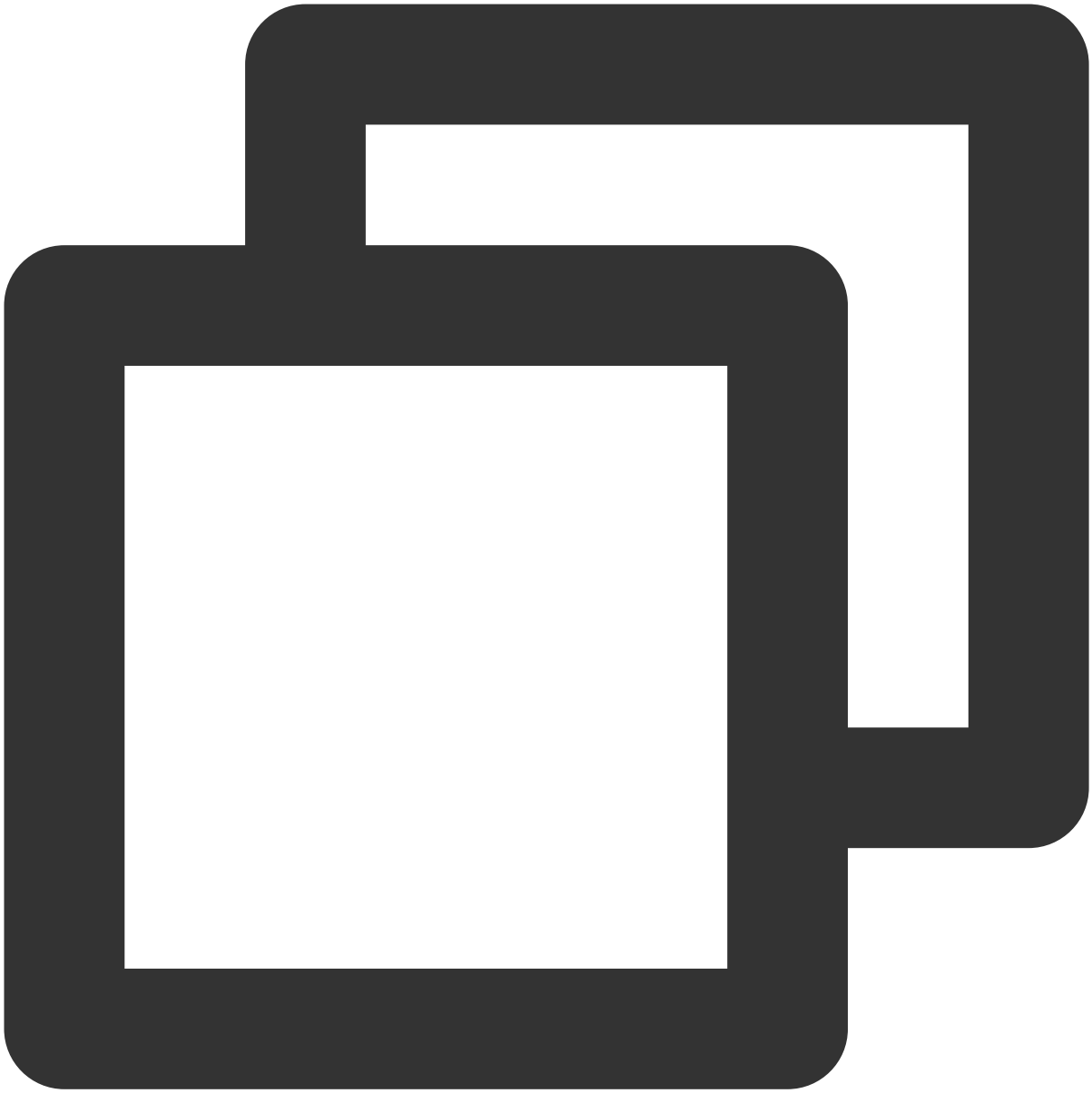
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```
    [self.tpgImageView setTpgImageWithData:data loadComplete:^(NSData * _Nullable
}];
```

swift

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```
    imageView.setTpgImageWith(data) { (data, image, error) in
}
```

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Basic Image Processing
Image Processing

Last updated：2024-03-04 10:30:23

Overview

CI provides the CIResponsiveTransformation (auto processing) and CITransformation (custom processing) image processing methods.

Note:

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 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.

Resources

For SDK APIs and parameters, see Scaling.

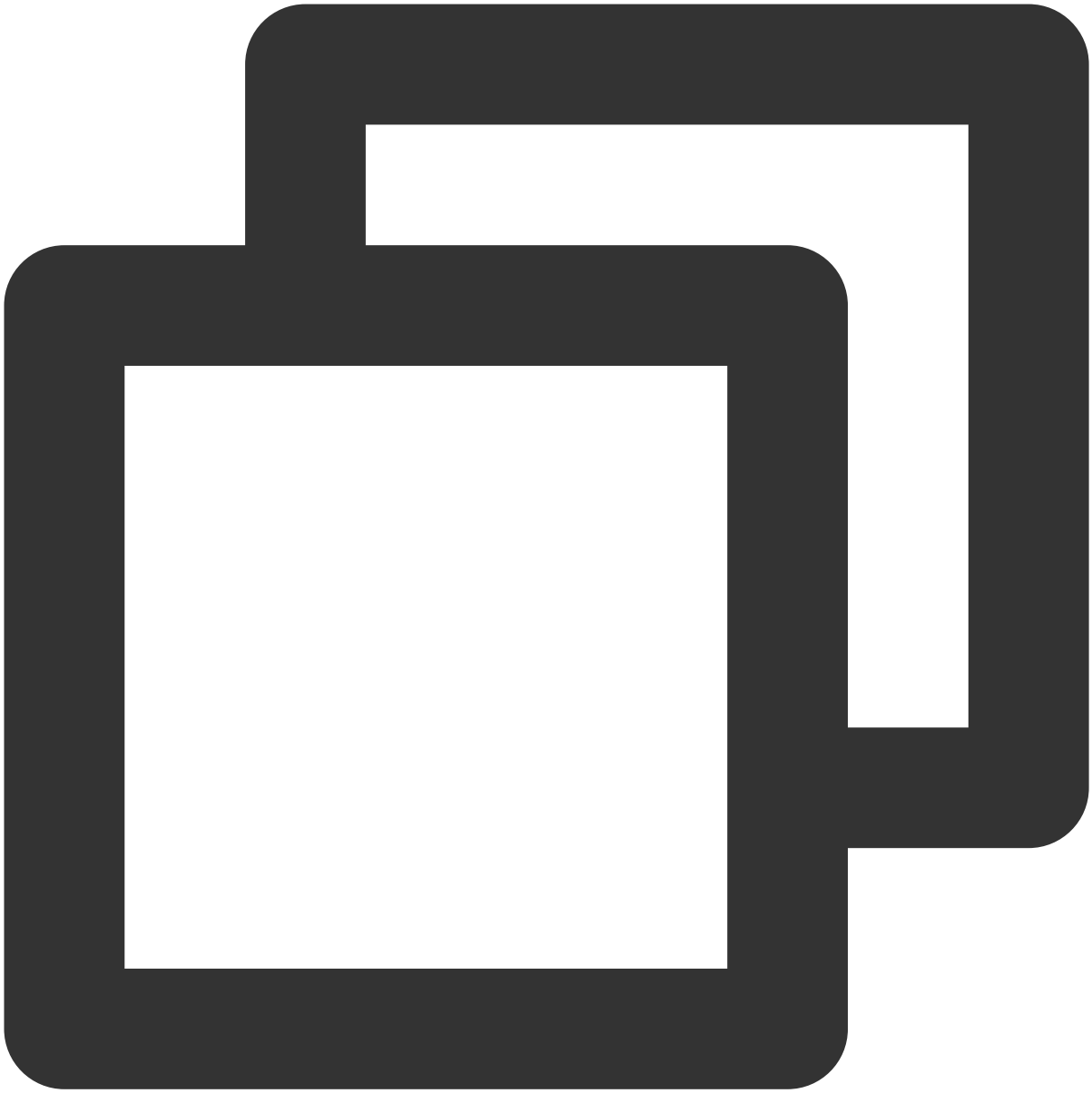
CIResponsiveTransformation

ResponsiveTransformation includes format conversion (converting formats according to OS versions) and scaling (scaling images according to the imageView control sizes and ScaleType) and is described as follows:

1. CIResponsiveTransformation refers to processing images automatically.
2. It automatically adjusts the size of the image according to the size of the current imageView control.
3. It automatically selects the optimal image format according to the system version (HEIC for iOS 11 and later or the original format for earlier versions).

Objective-C

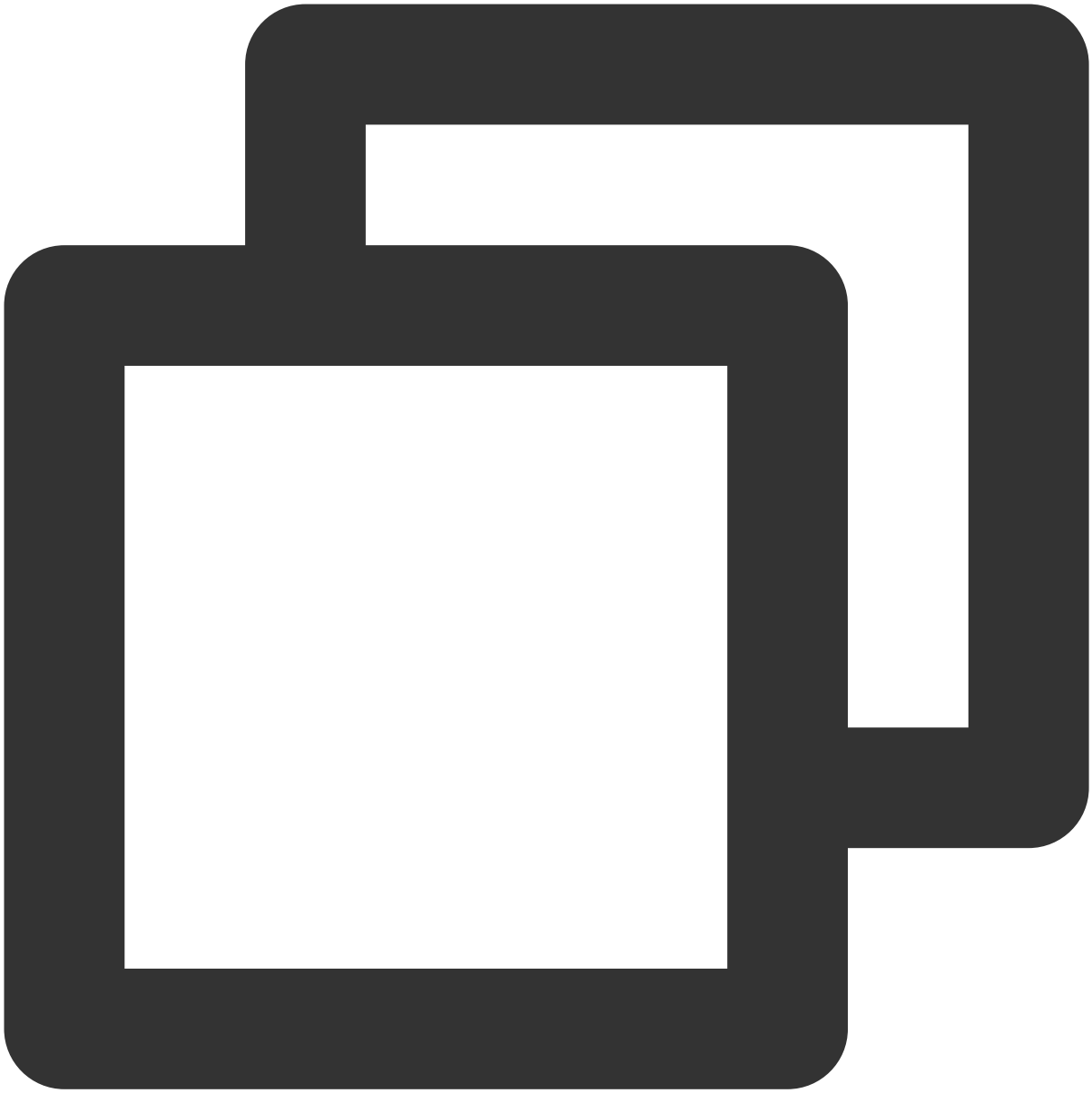
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```
CIResponsiveTransformation * sTransform = [[CIResponsiveTransformation alloc]initWi
```

swift

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```
let sTransform = CIResponsiveTransformation(view: nil, scale: ScaleType.autoFit)
```

CITransformation

The CITransformation class in the CI SDK has encapsulated the following basic image processing features of CI:

Scaling
Cropping
Rotation

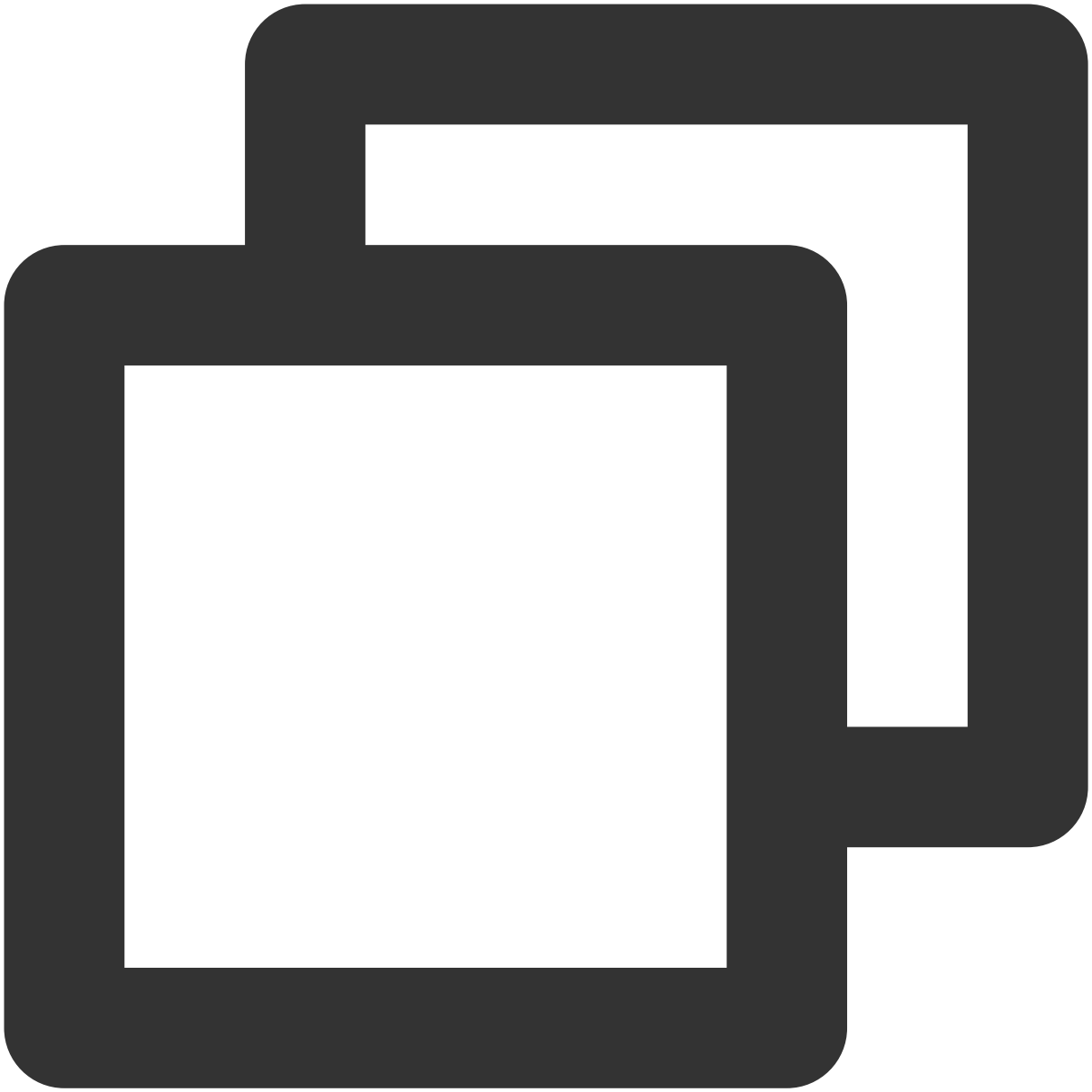
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Format conversion
Quality change
Gaussian blurring
Sharpening
Watermark
Image average hue acquisition
Image metadata removal
Combined operations

Before using the basic image processing features of CI, instantiate the CITransformation class first as follows. Note that instantiation is required for all the operations described below.

Objective-C

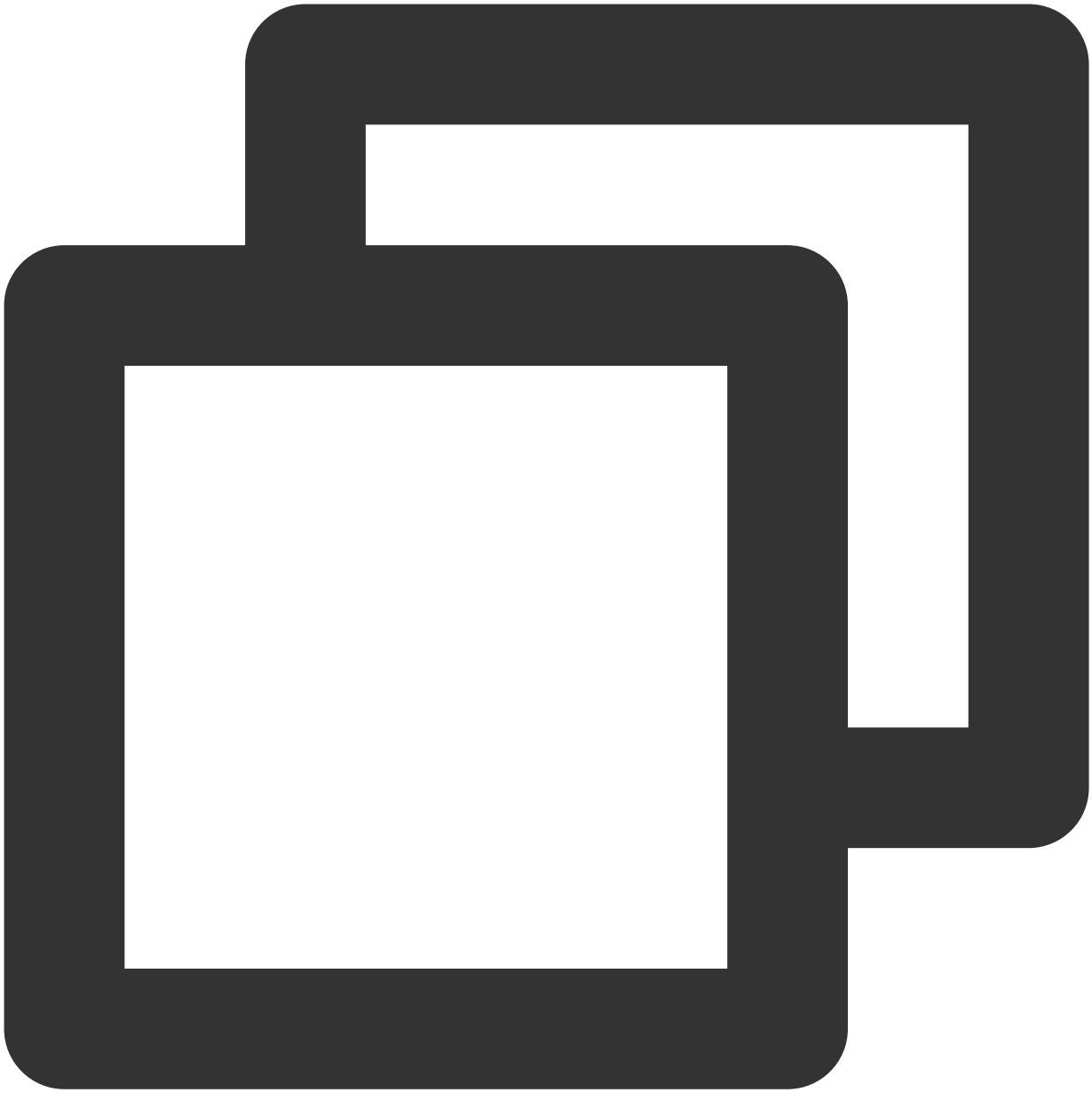
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```
CITransformation * transform = [CITransformation new];
```

swift

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```
let transform = CITransformation();
```

Scaling

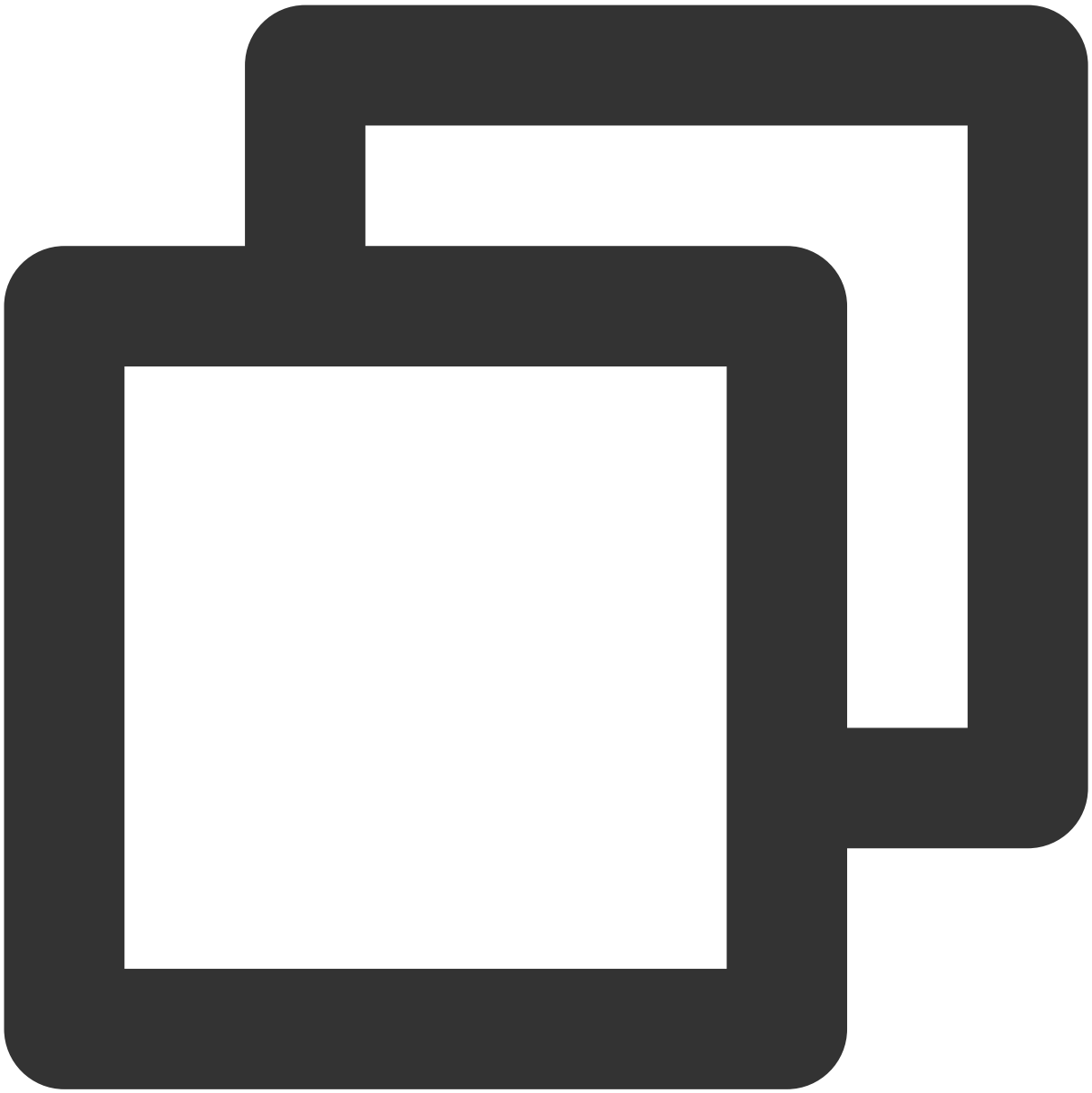
Note:

For the API documentation, see Scaling.

Scaling by percentage

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Objective-C



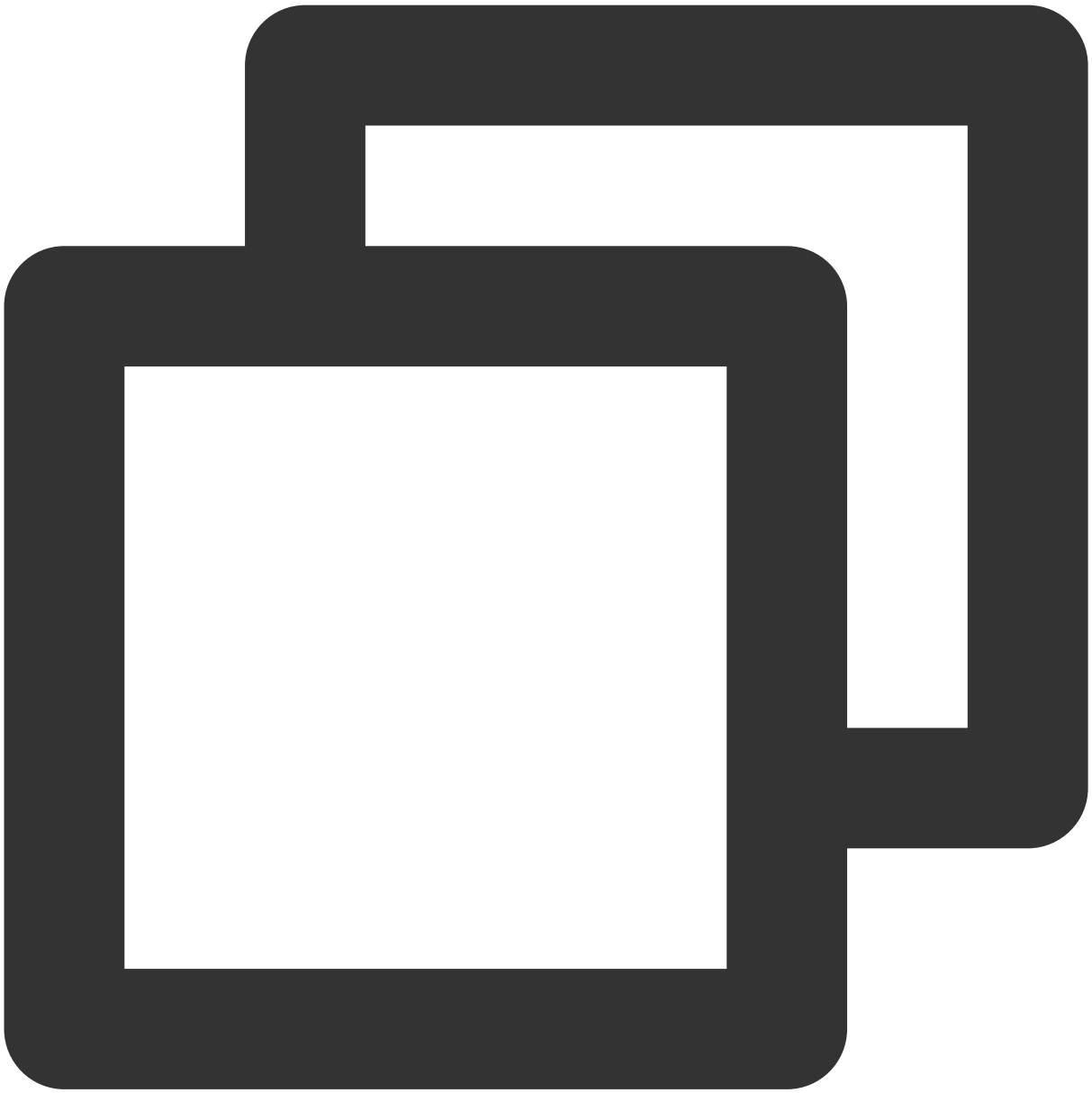
```
// Scale to 50%
[transform setZoomWithPercent:50 scaleType:ScalePercentTypeALL];

// `scaleType` can be specified as the following types:
    // Scale the width without changing the height
    ScalePercentTypeOnlyWidth = 1,
    // Scale the height without changing the width
    ScalePercentTypeOnlyHeight,
    // Scale both the width and height
```

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```
    ScalePercentTypeALL,
```

swift

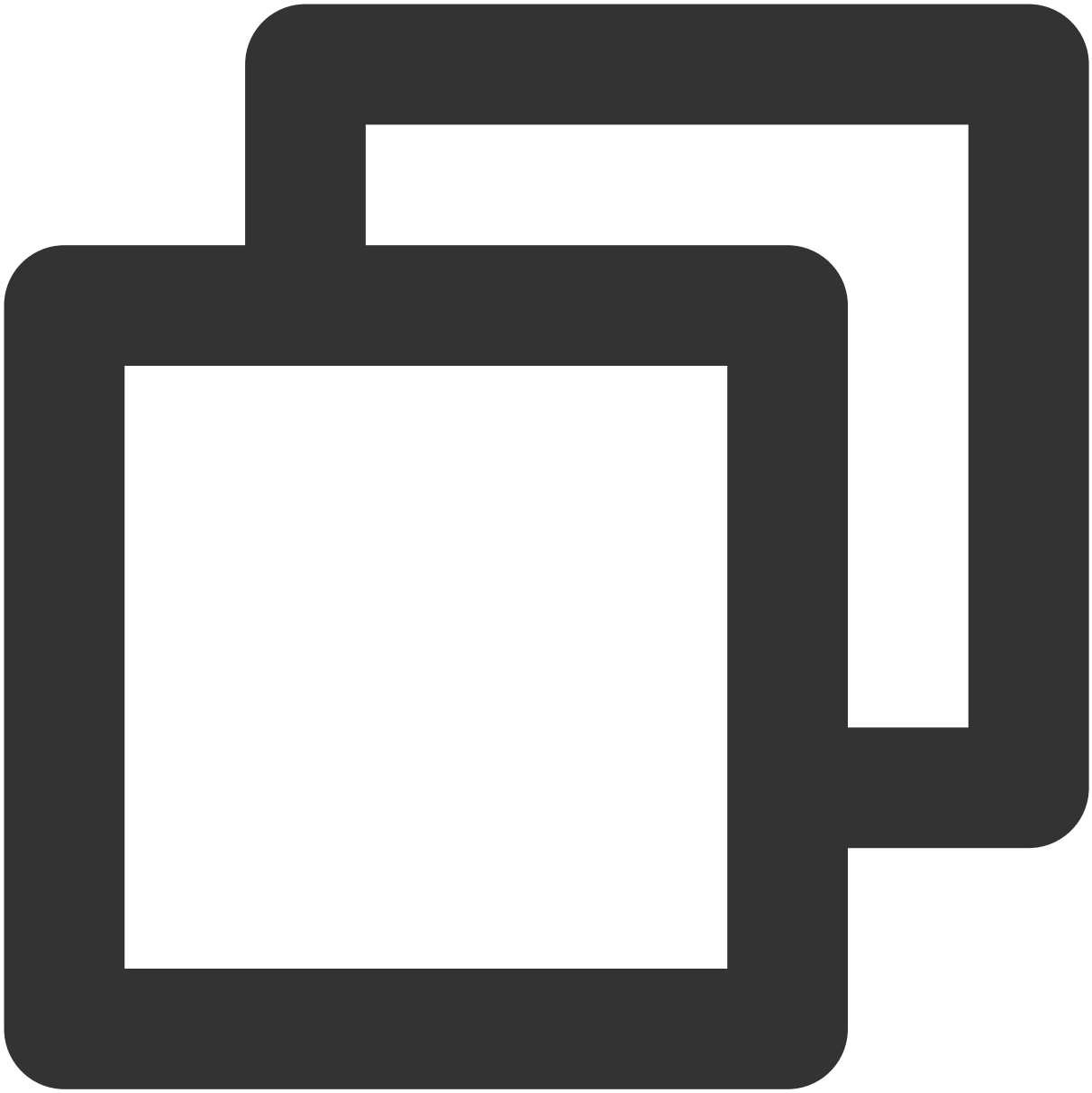


```
transform.setZoomWithPercent(50, scale: ScalePercentType.ALL)
```

Scaling with specified width and height

Objective-C

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```
// Specify both the width and height as 100 and the scaling type as `ScaleTypeAUTOF
[transform setZoomWithWidth:100 height:100 scaleType:ScaleTypeAUTOFit];

// `scaleType` can be specified as the following types in case of scaling by fixed
    // Specify both the height and width. The output image may be distorted.
    ScaleTypeAUTOFill = 1,

    // Specify the maximum width and height of a thumbnail as `Width` and `Height`
    ScaleTypeAUTOFit,

    // Specify the minimum width and height of a thumbnail as `Width` and `Height`
```

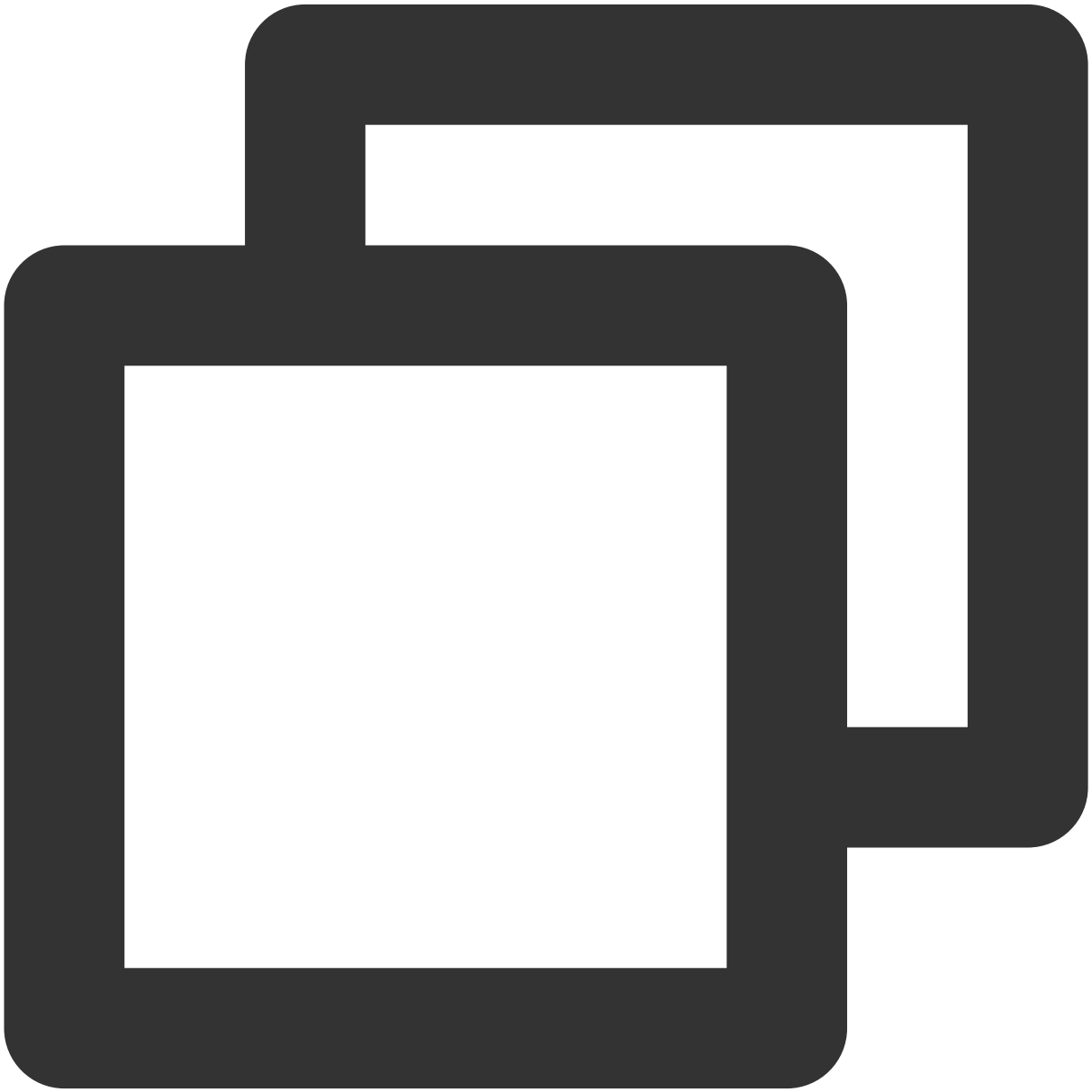
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```
    ScaleTypeAUTOFITWithMin,

    // Specify the target image width as `Width` and pass in `0` for the height to
    ScaleTypeOnlyWidth,

    // Specify the target image height as `Height` and pass in `0` for the width to
    ScaleTypeOnlyHeight
```

swift



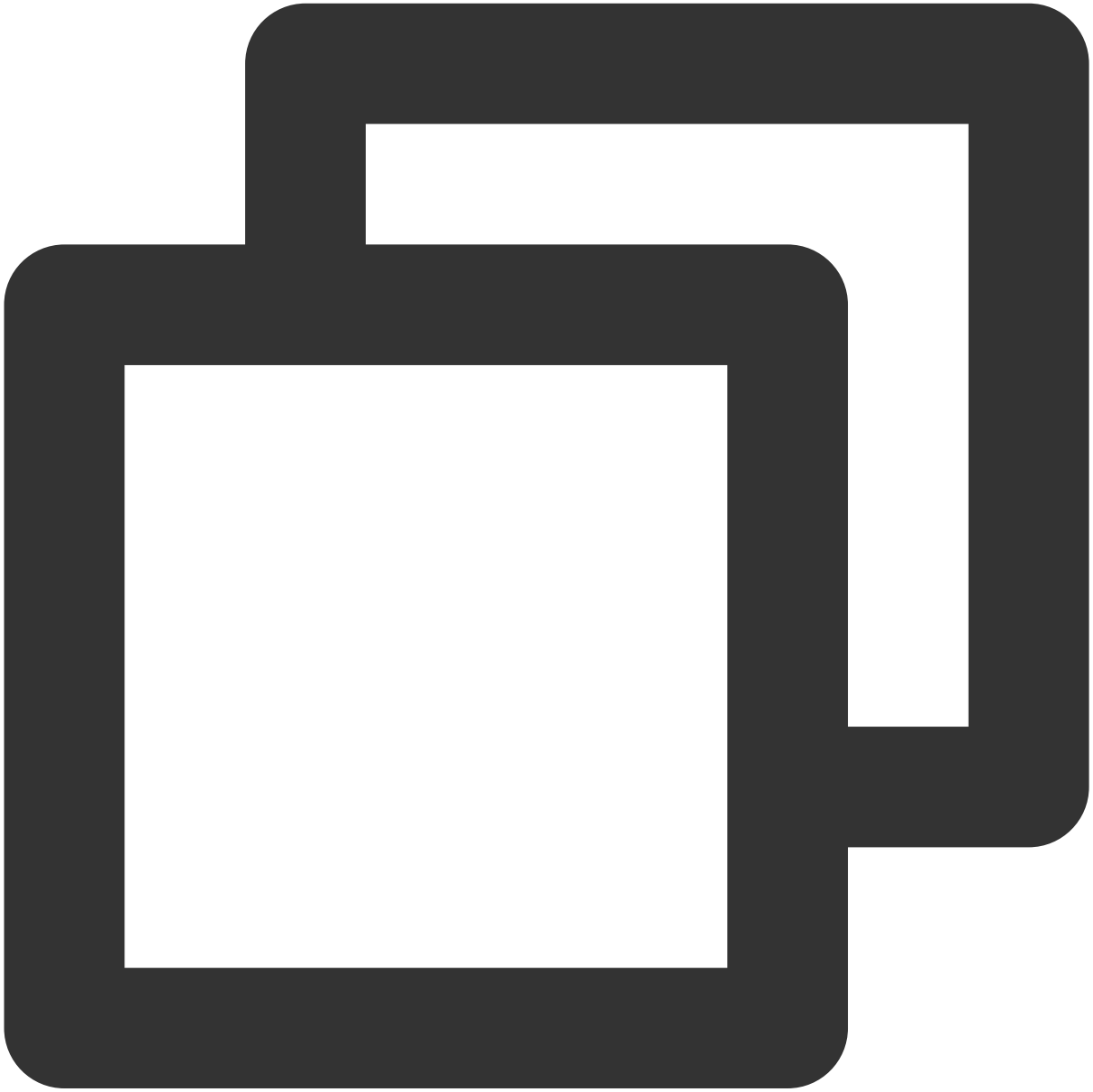
```
transform.setZoomWithWidth(10, height: 100, scaleType: ScaleType.autoFit)
```

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Proportional scaling

This feature scales images by limiting the resolution of the output image (the total number of pixels cannot exceed the specified value).

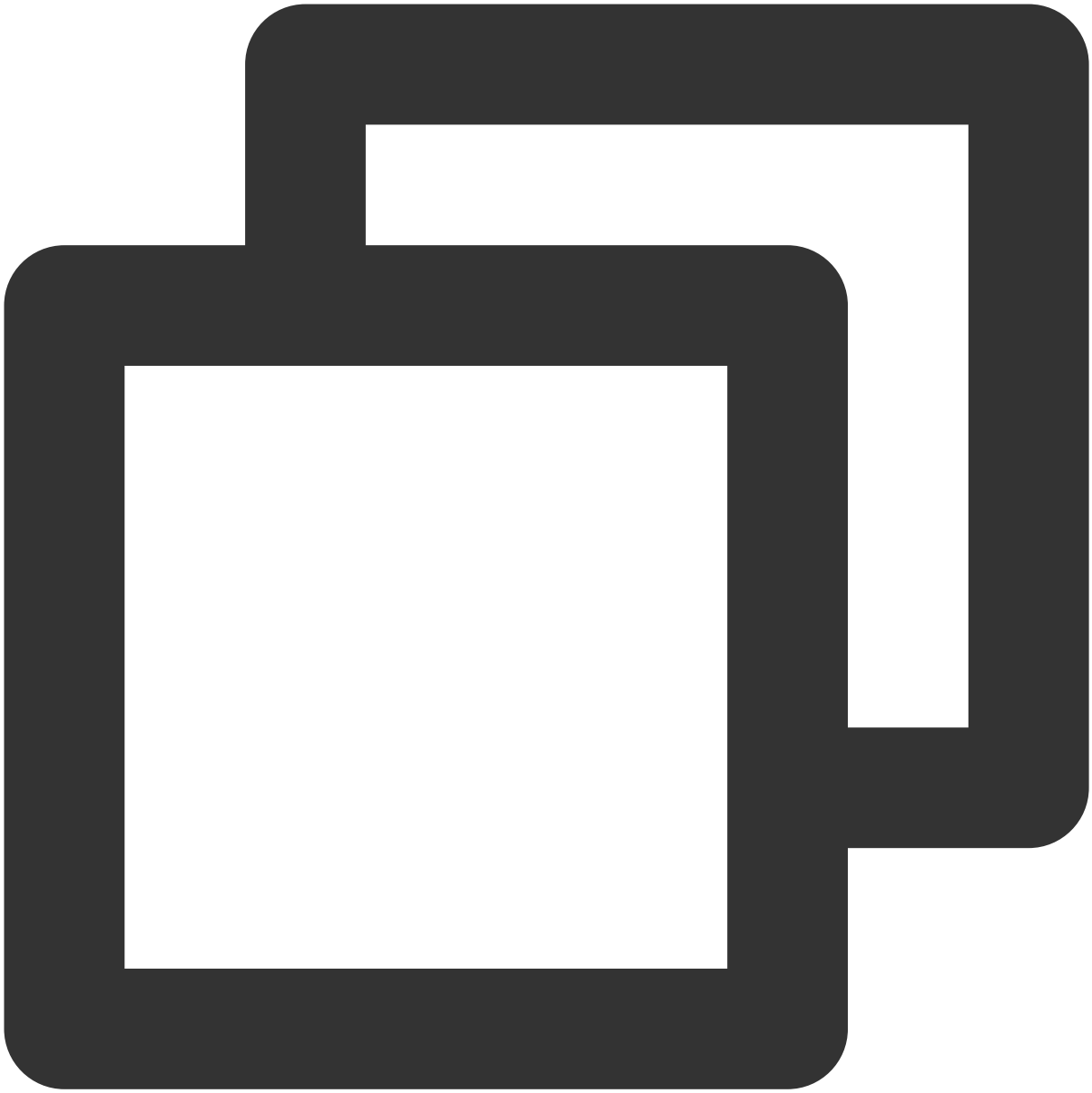
Objective-C



```
// Scale an image so that the total number of its pixels does not exceed 1,000
[transform setZoomWithArea:1000];
```

swift

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```
transform.setZoomWithArea(1000)
```

Cropping

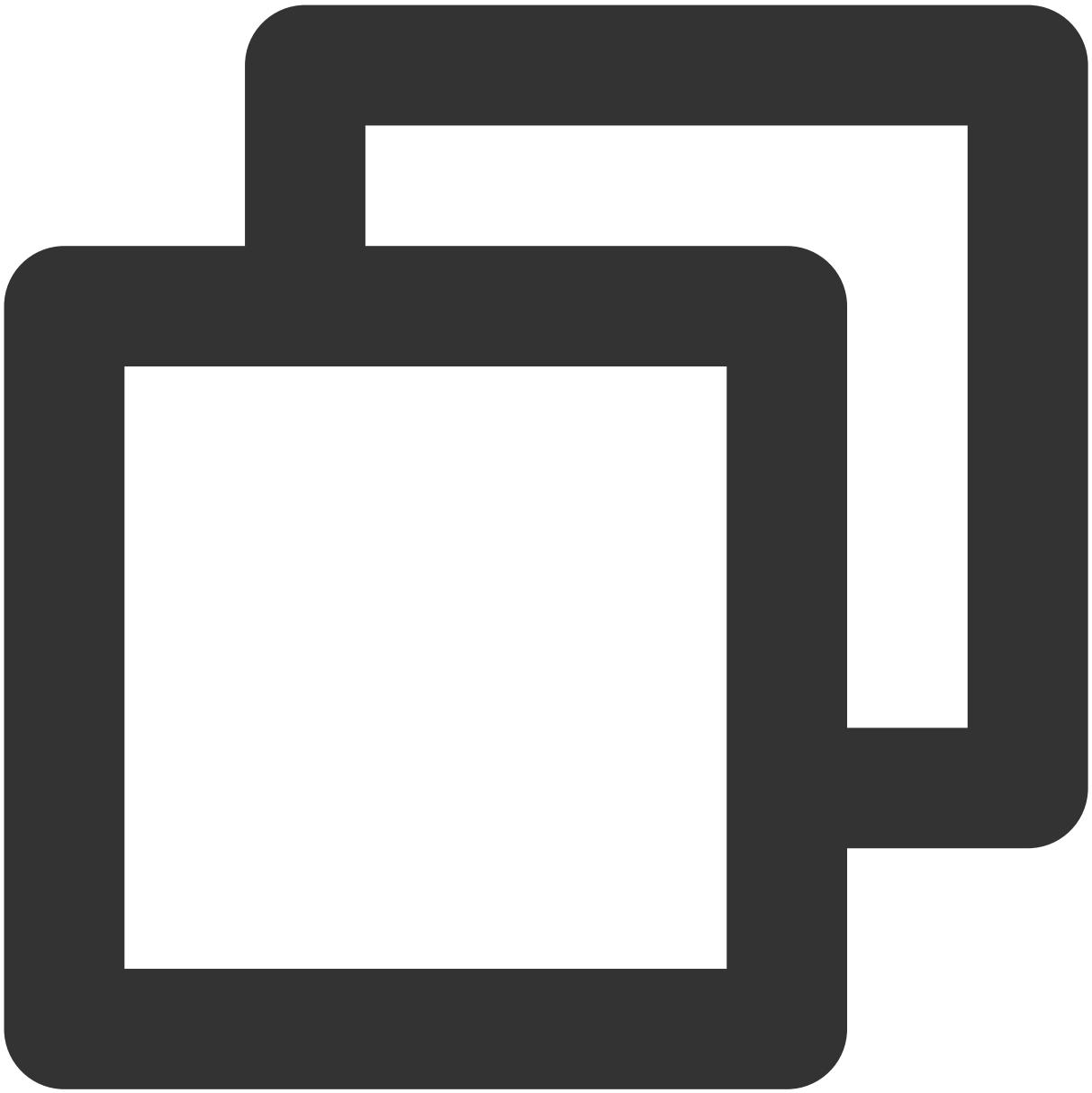
Note:

For the API documentation, see Cropping.

Regular cropping

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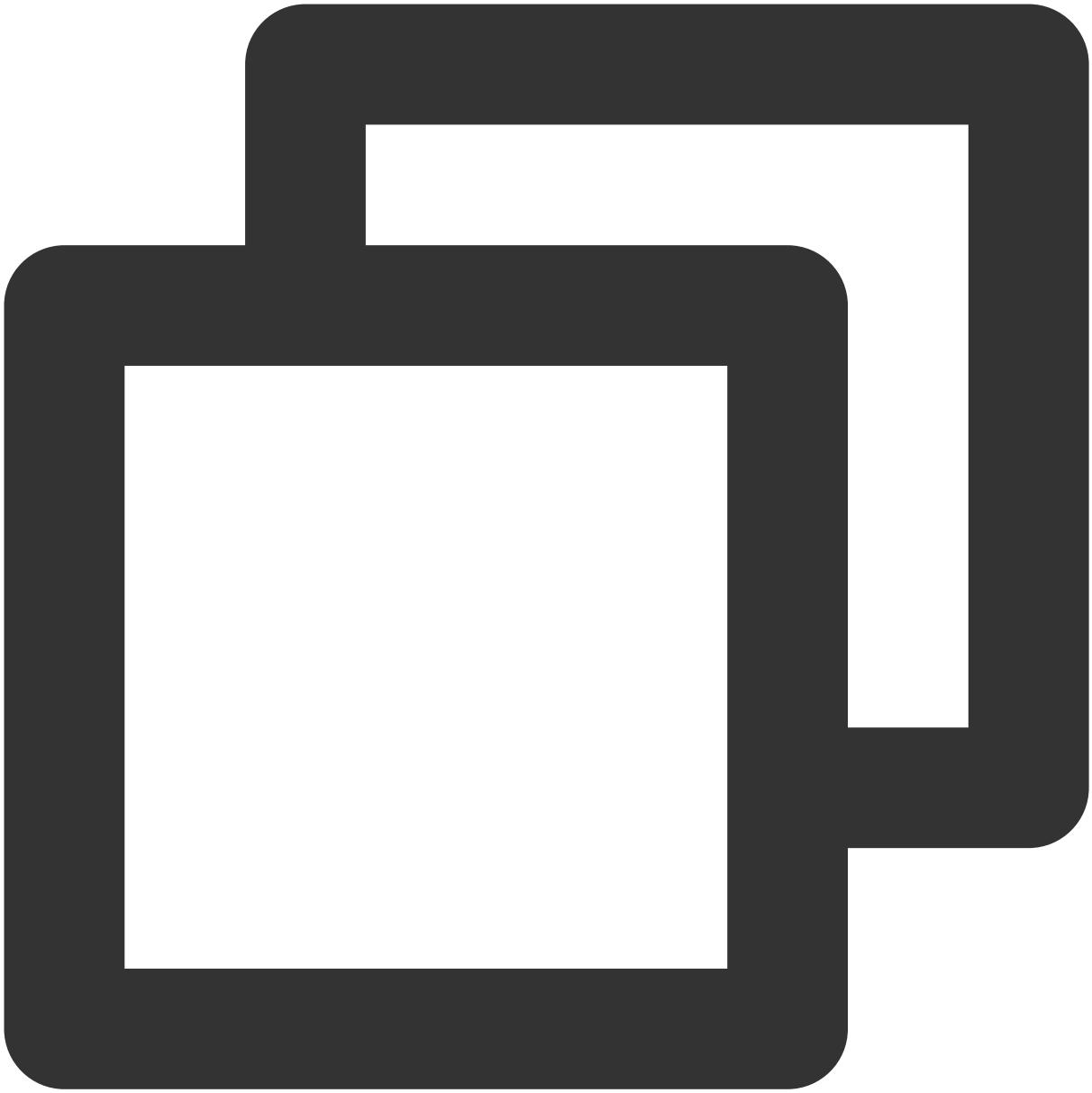
Objective-C



```
// Perform cropping based on the specified target width, height, and horizontal off
[transform setCutWithWidth:100 height:100 dx:30 dy:30];
```

swift

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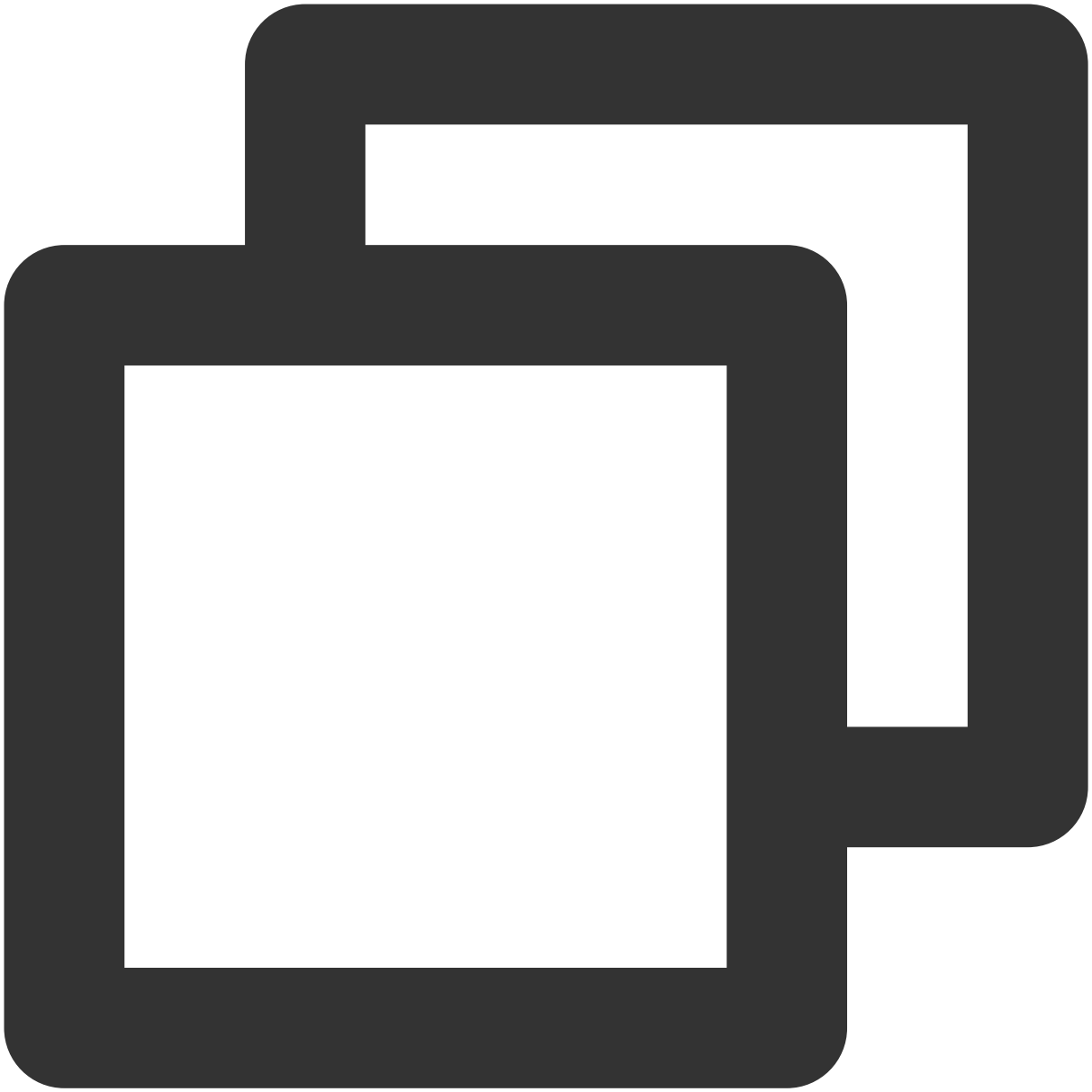
```
transform.setCutWithWidth(100, height: 100, dx: 30, dy: 30)
```

Inscribed circle cropping

`radius` specifies the radius of the inscribed circle, which should be an integer greater than zero and less than half of the shorter side of the input image. The center of the inscribed circle is the center of the image. This parameter is not supported for GIF images.

Objective-C

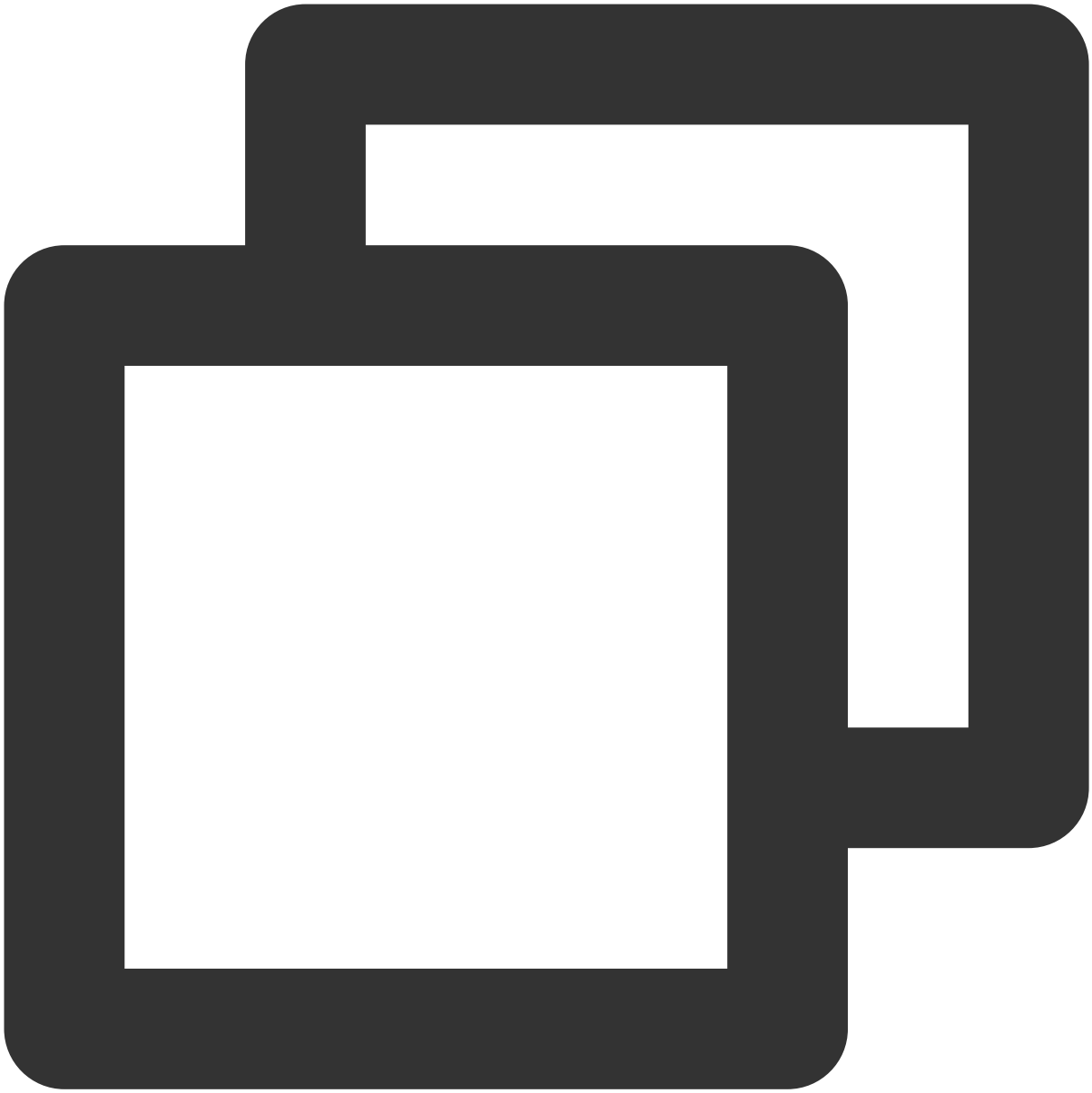
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```
// Set the radius to 100.
[transform setCutWithIRadius:100];
```

swift

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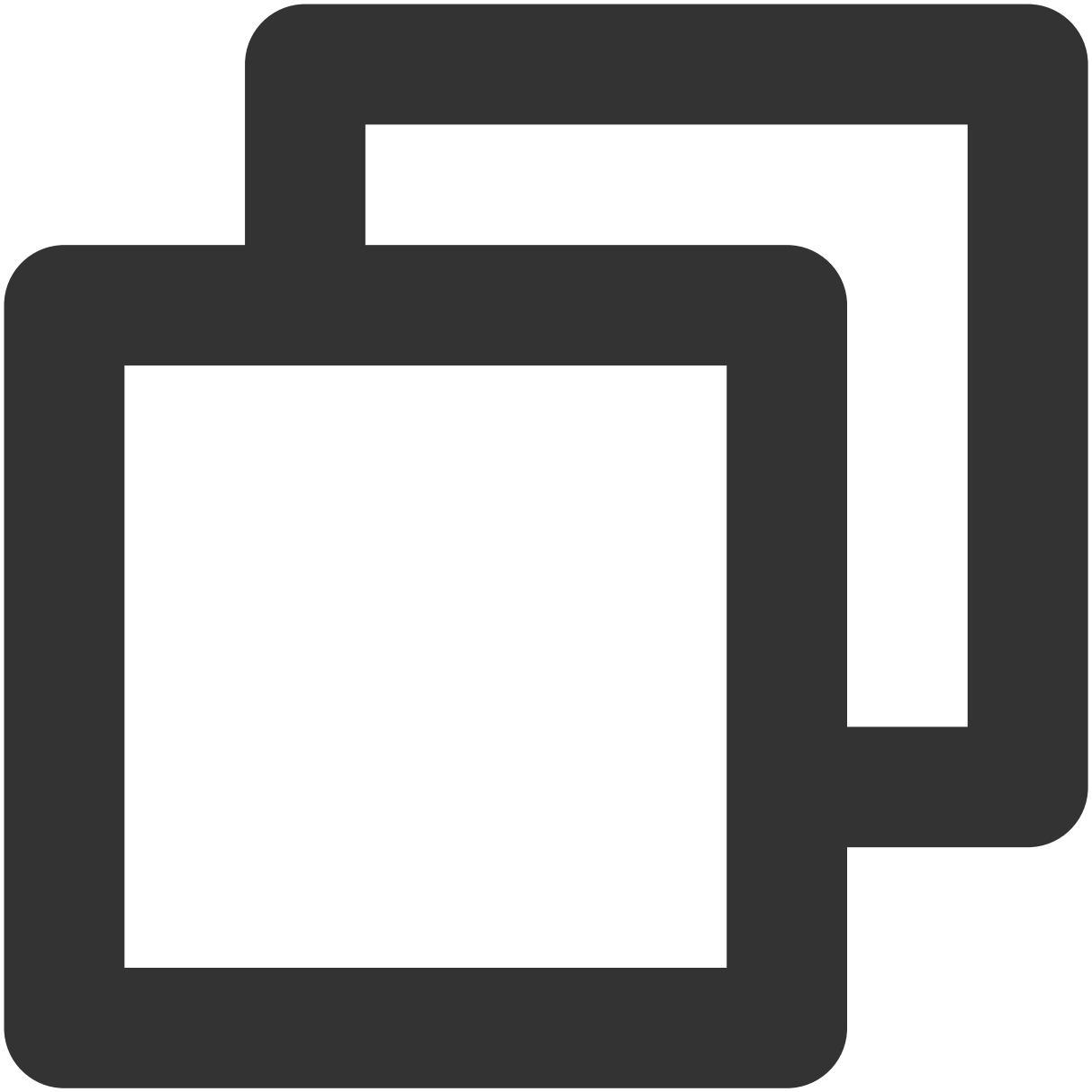
```
transform.setCutWithIRadius(100)
```

Rounded corner cropping

`radius` specifies the radius of the rounded corner of the image, which should be an integer greater than zero and less than half of the shorter side of the input image. The two sides of the image are the tangent lines of the rounded corner. This parameter is not supported for GIF images.

Objective-C

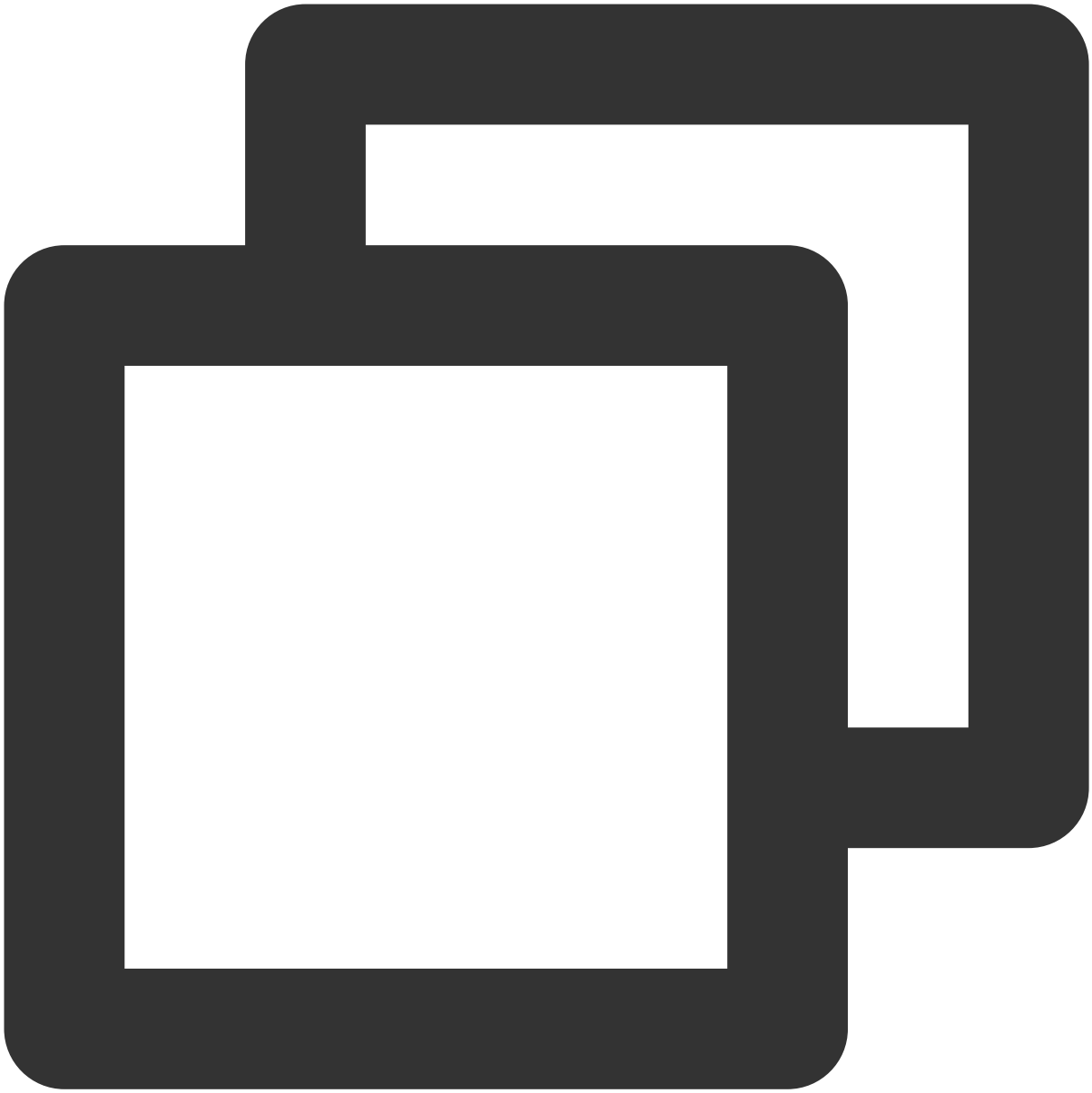
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```
// Set the corner radius to 100.
[transform setCutWithRRadius:100];
```

swift

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```
transform.setCutWithRRadius(100)
```

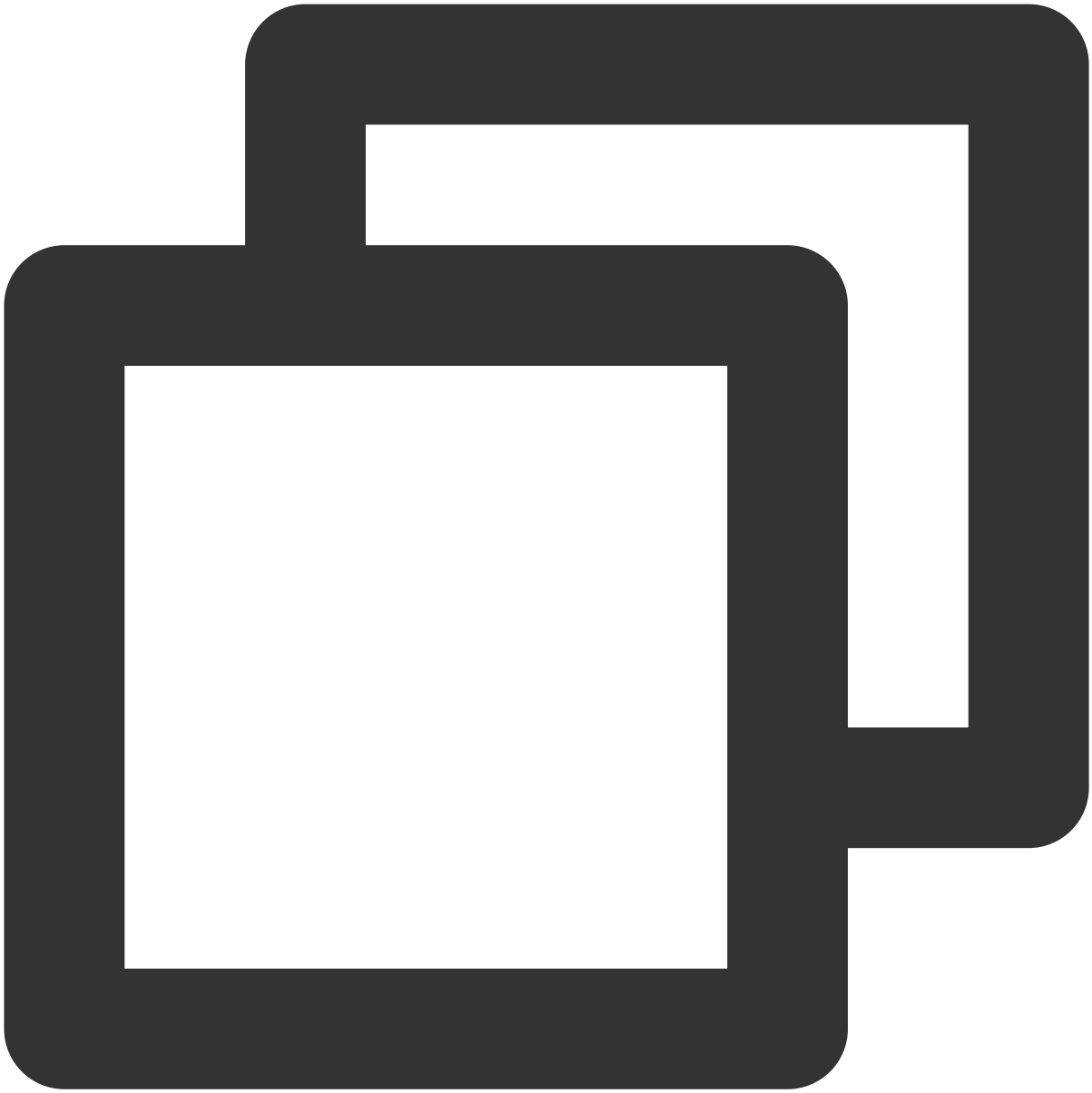
Scaling and cropping

Note:

For more information on the 3x3 grid position diagram, see Cropping.

Objective-C

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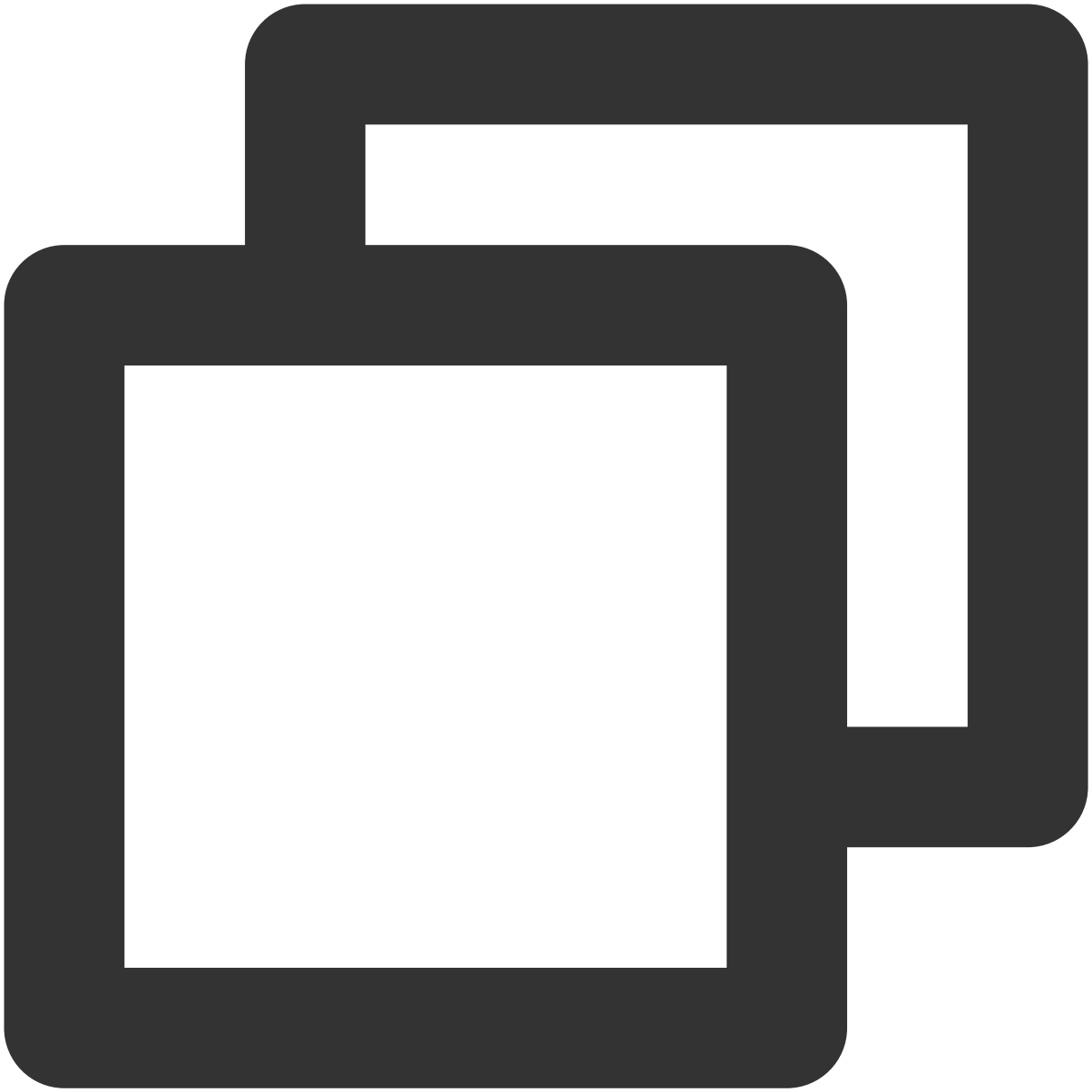


```
// Specify the width and height for scaling and cropping and change nothing in case
[transform setCutWithCrop:100 height:100];

// Specify width, height, and gravity for scaling and cropping
[transform setCutWithCrop:100 height:100 gravity:CIGravityCenter];
```

swift

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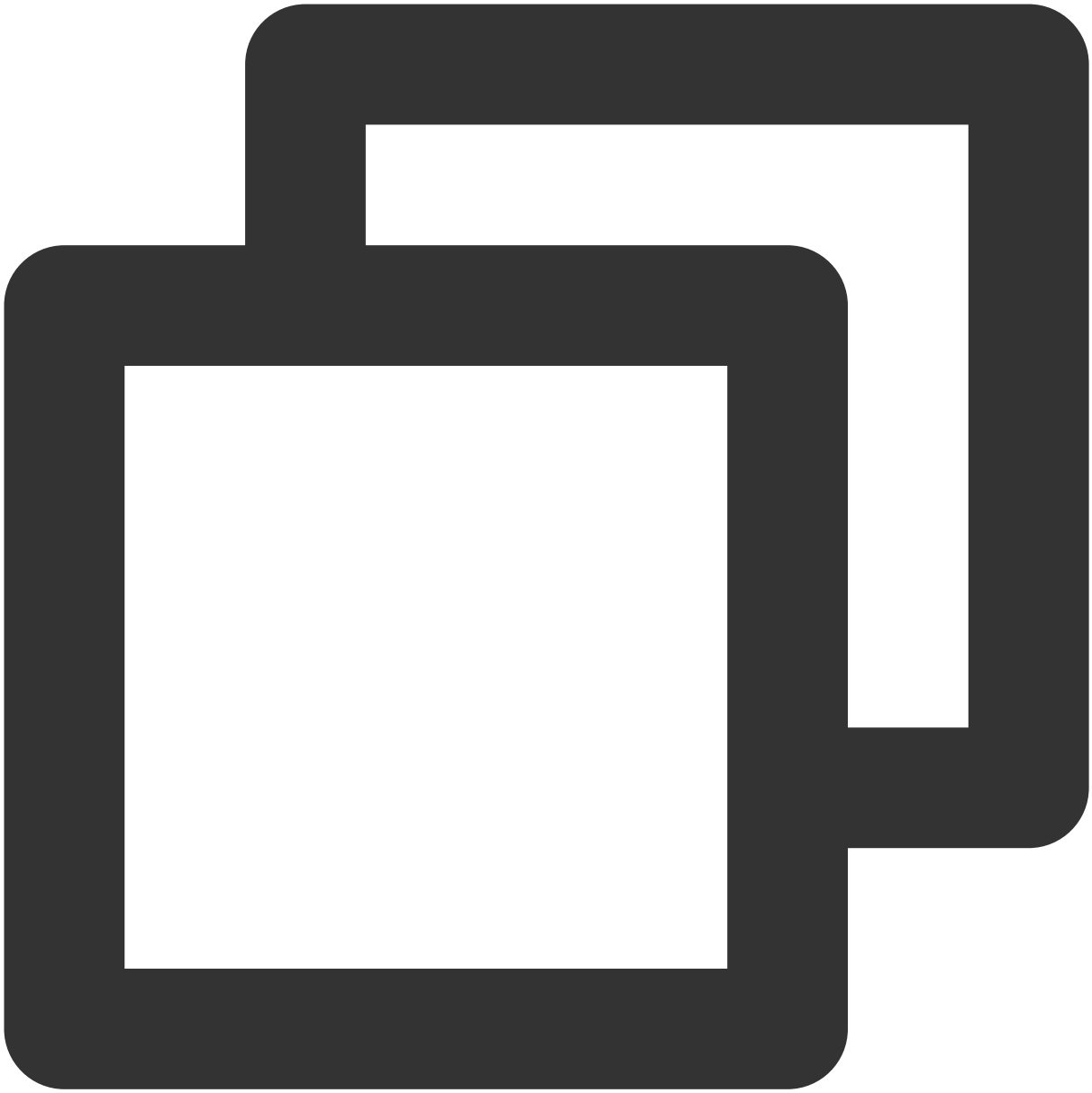
```
transform.setCutWithCrop(100, height: 100)
transform.setCutWithCrop(100, height: 100, gravity: CloudInfiniteGravity.CIGravityC
```

Smart cropping

Scale and crop an image based on the face position in the image. The width and height of the target image are specified by `Width` and `Height` respectively.

Objective-C

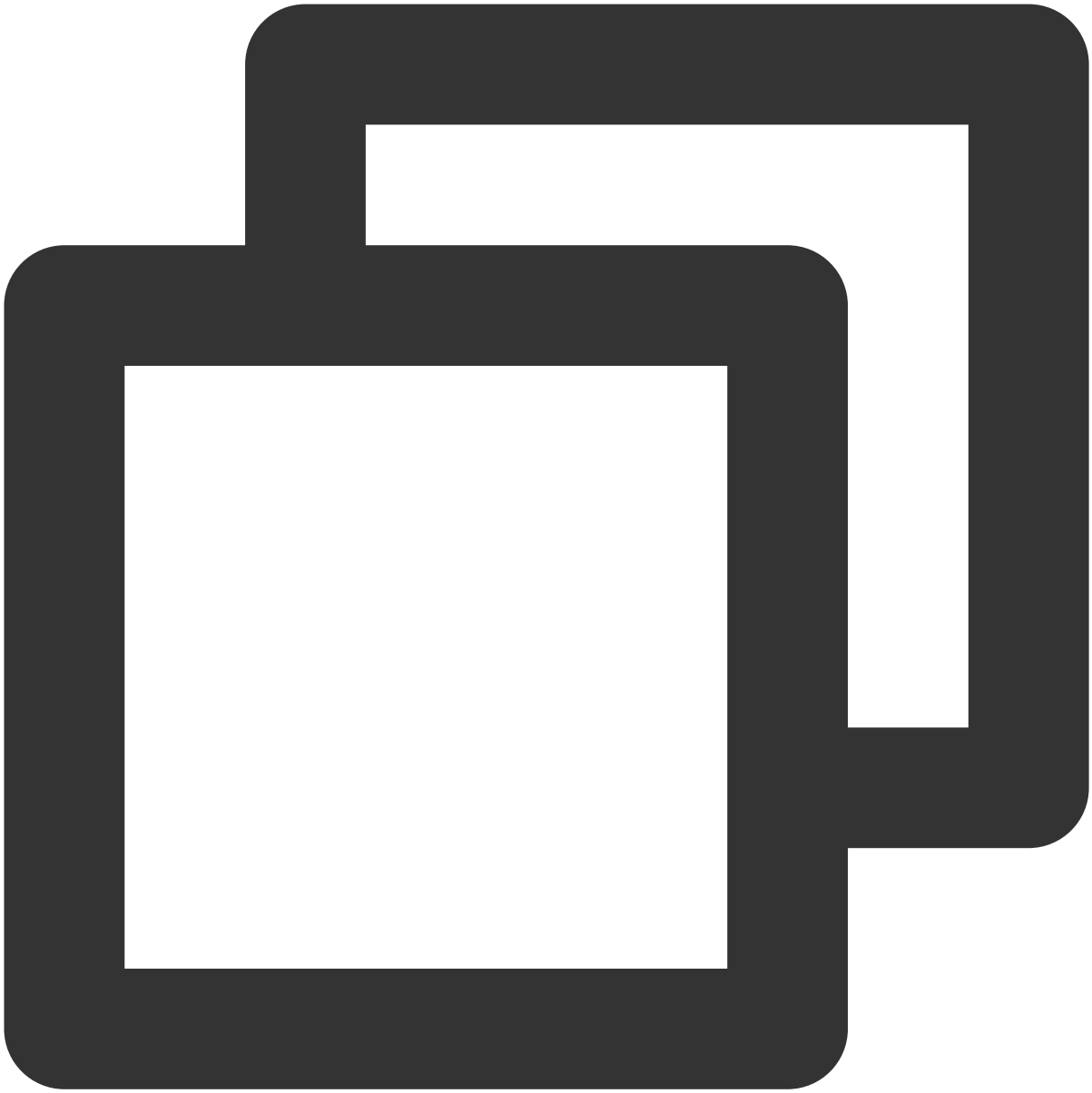
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```
// Crop the face from the image and scale both the width and height to 100.
[transform setCutWithScrop:100 height:100];
```

swift

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```
transform.setCutWithScrop(100, height: 100)
```

Rotating

Note:

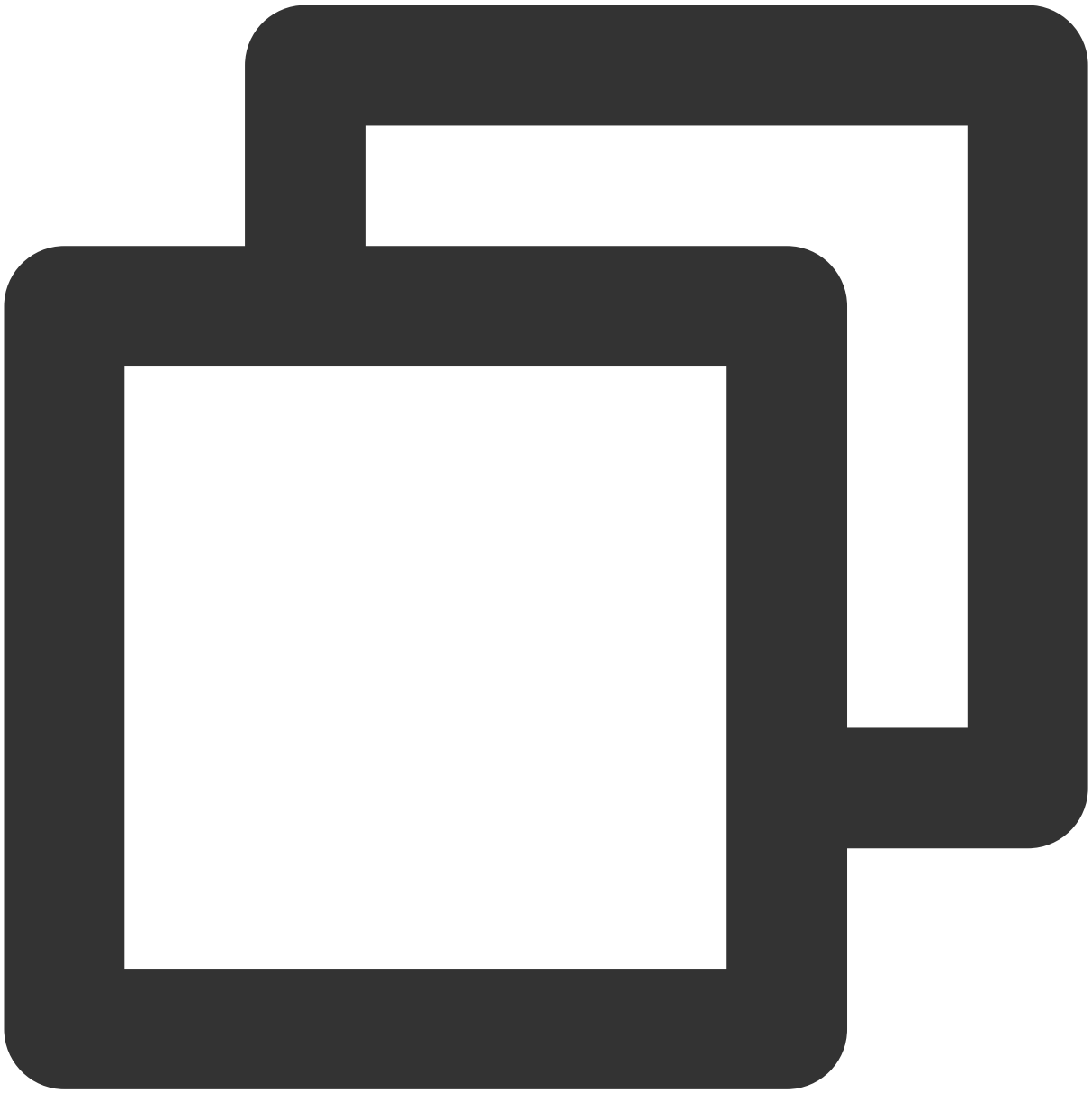
For the API documentation, see Rotation.

Rotating an image by a specified angle

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Rotate an image clockwise by a specified angle (0–360 degrees). By default, the image is not rotated.

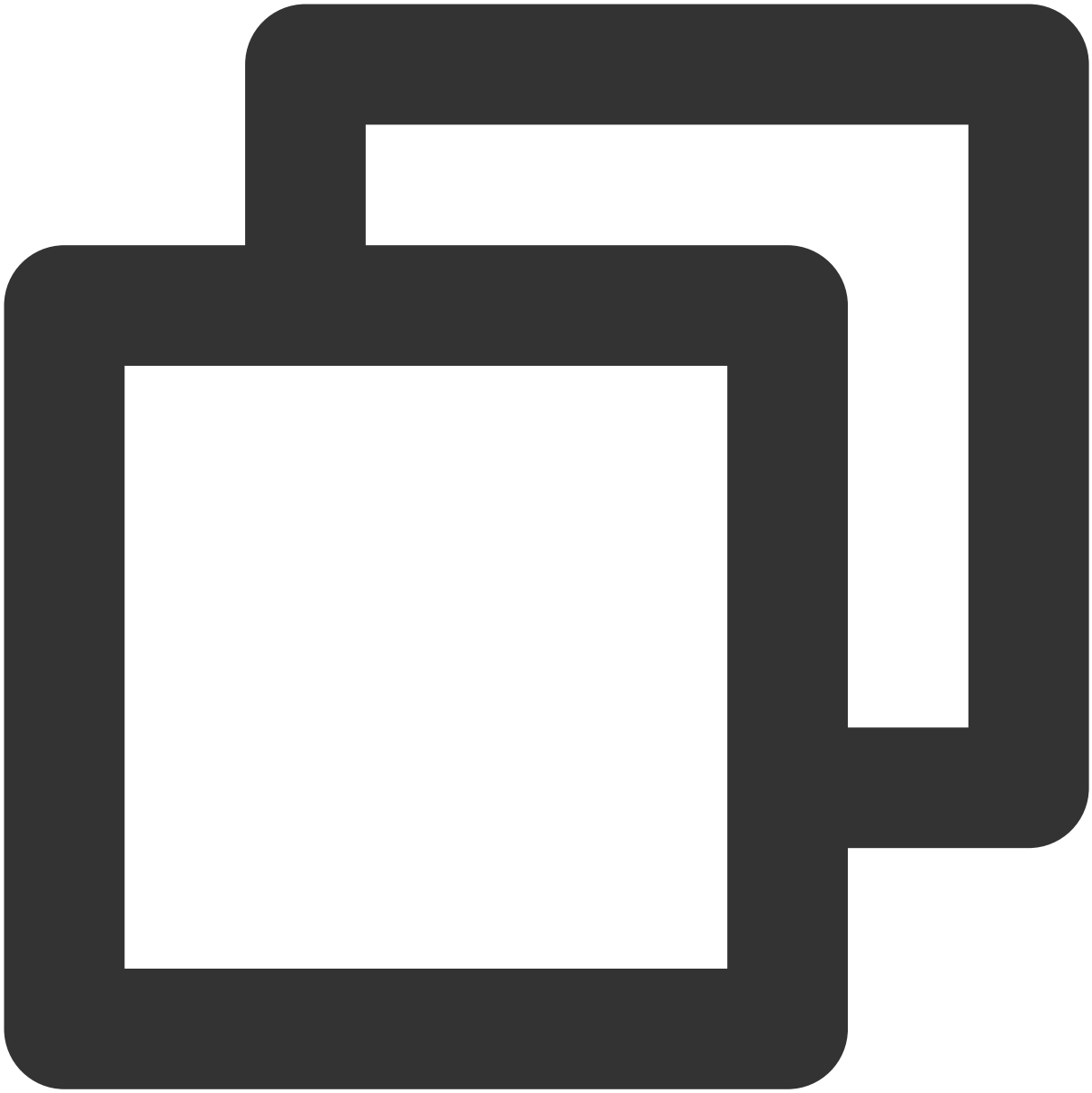
Objective-C



```
// Rotate the image by 45 degrees.
[transform setRotateWith:45];
```

swift

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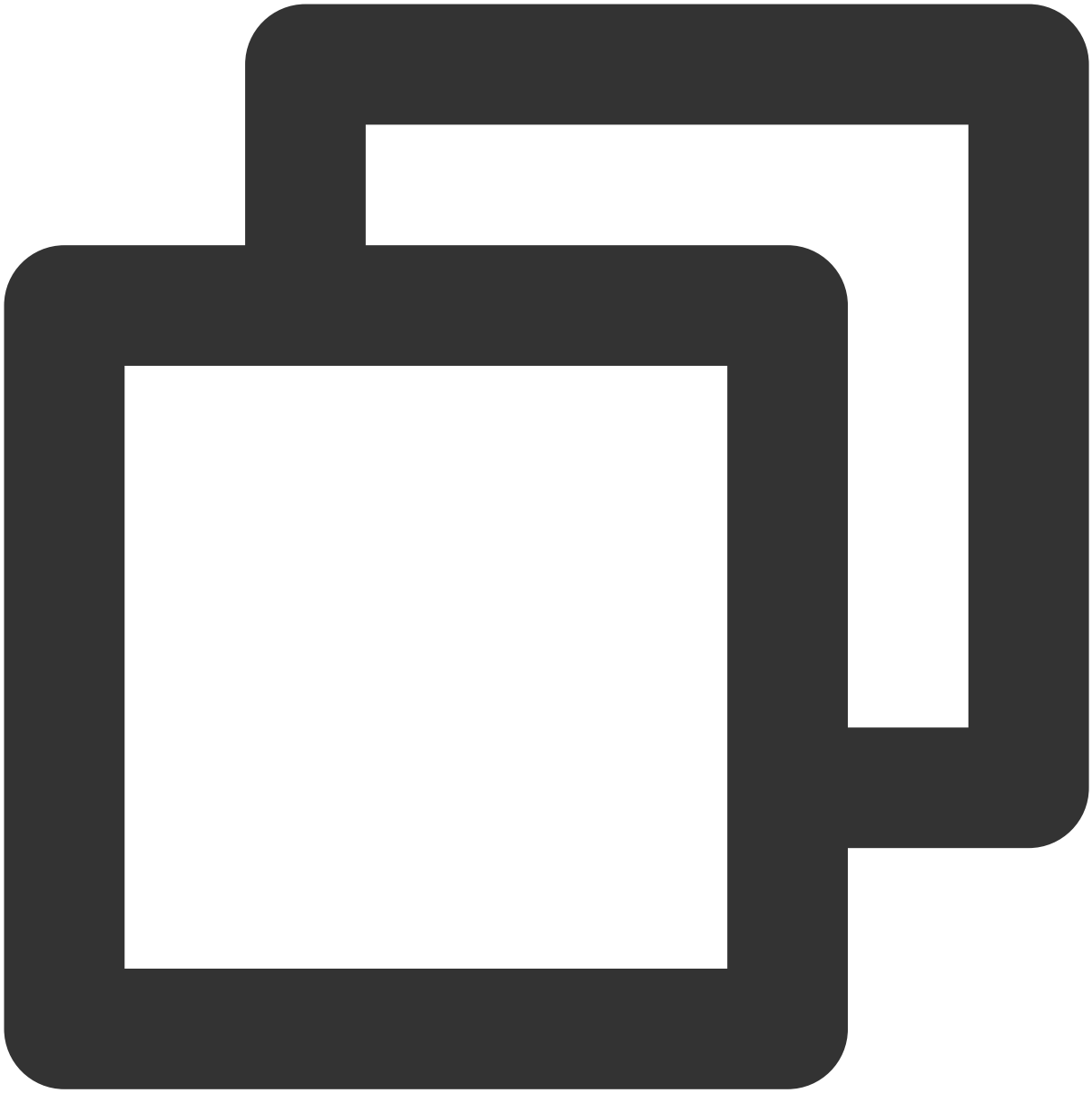
```
transform.setRotateWith(45)
```

Rotating an image automatically

Rotate an image automatically according to the EXIF data of the input image.

Objective-C

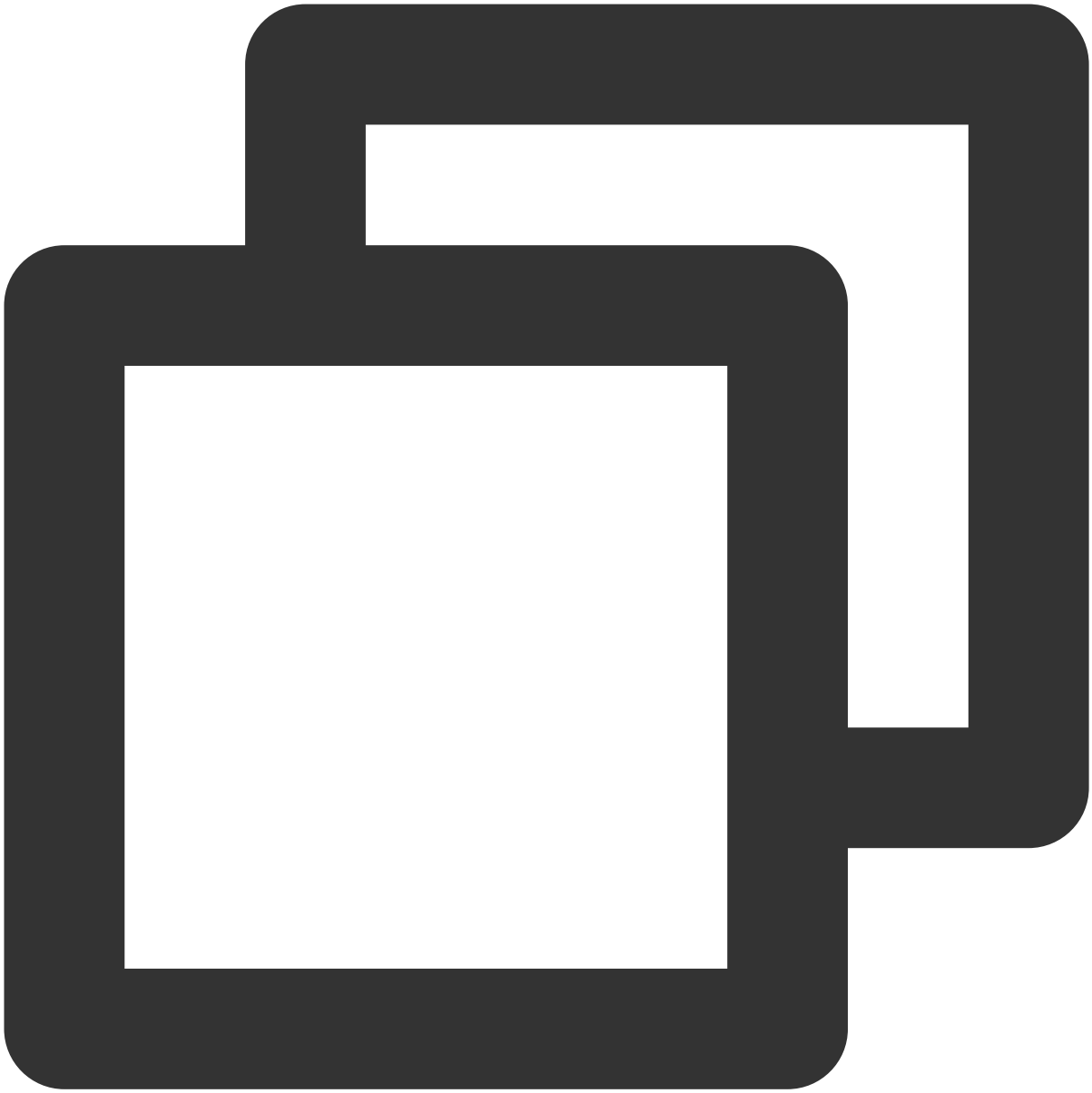
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```
[transform setRotateAutoOrient];
```

swift

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```
transform.setRotateAutoOrient()
```

Format Conversion

Note:

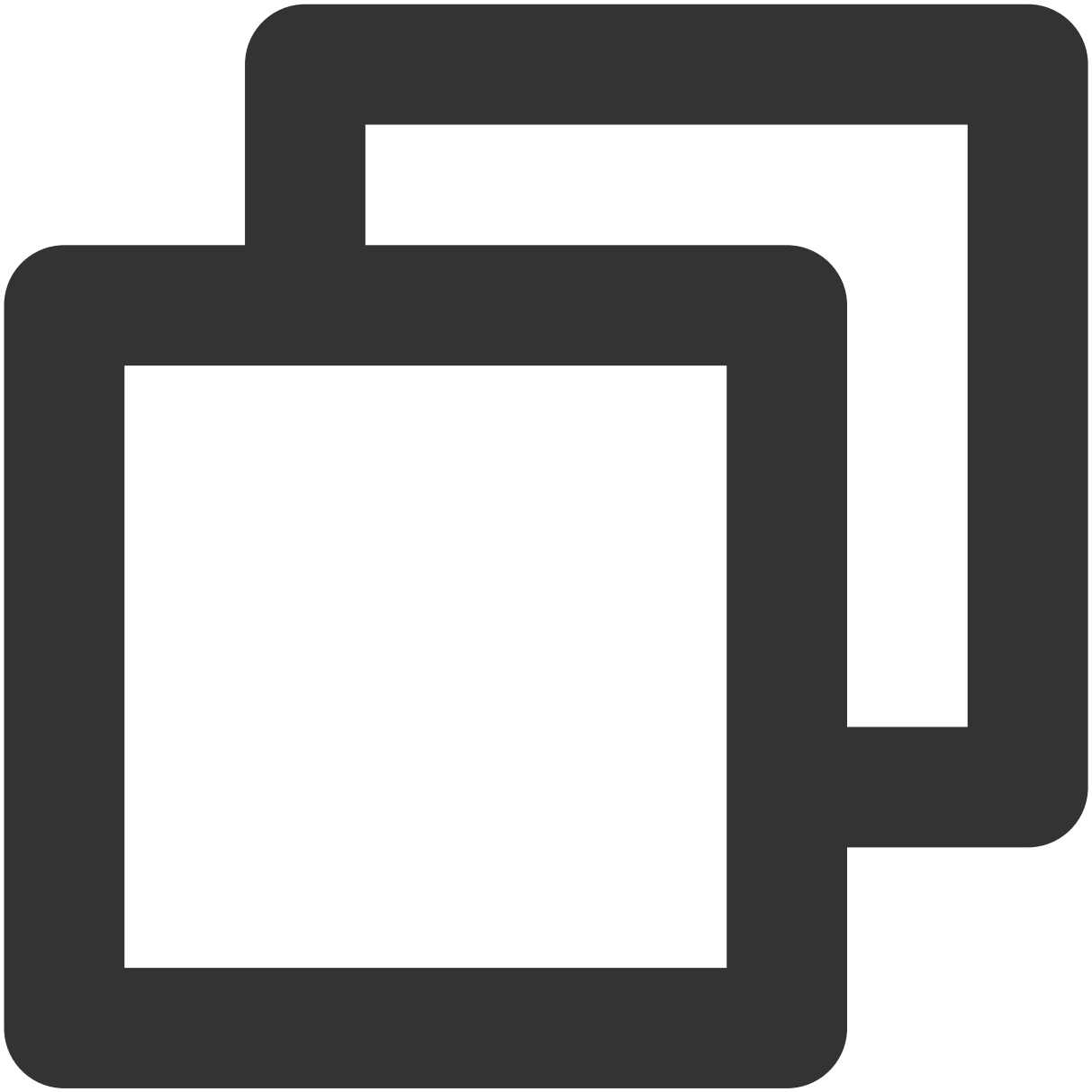
For the API documentation, see Converting Format.

Format conversion

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The target format can be TPG, JPG, BMP, GIF, PNG, HEIC, WEBP, YJPEG (which is optimized based on JPEG and is essentially JPG), or AVIF. The default format is the format of the input image.

Objective-C

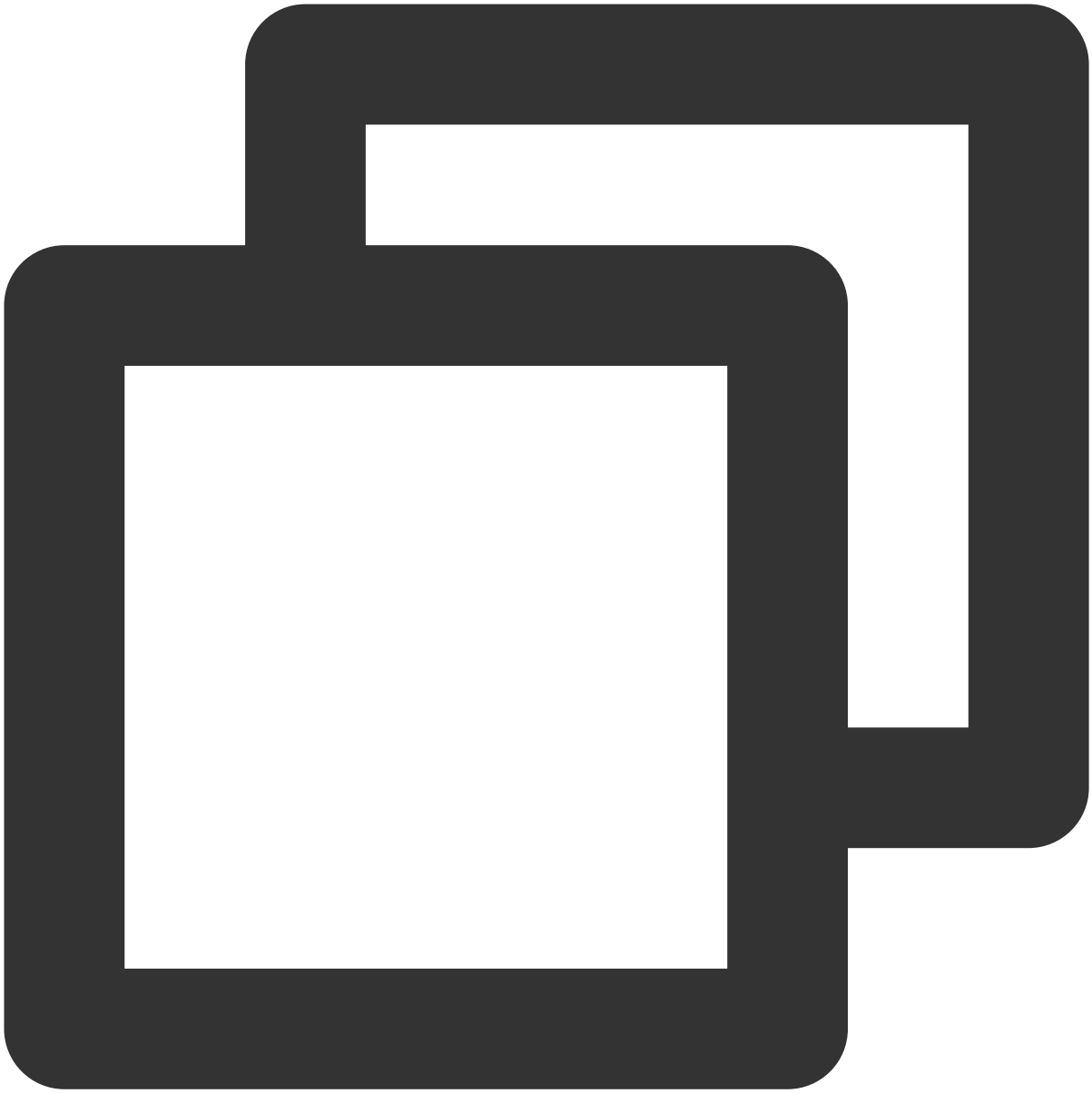


```
// Convert an image into JPG.
[transform setFormatWith:CIImageTypeJPG];

// Specify input parameters:
[transform setFormatWith:CIImageTypeTPG options:CILoadTypeUrlFooter];
```

swift

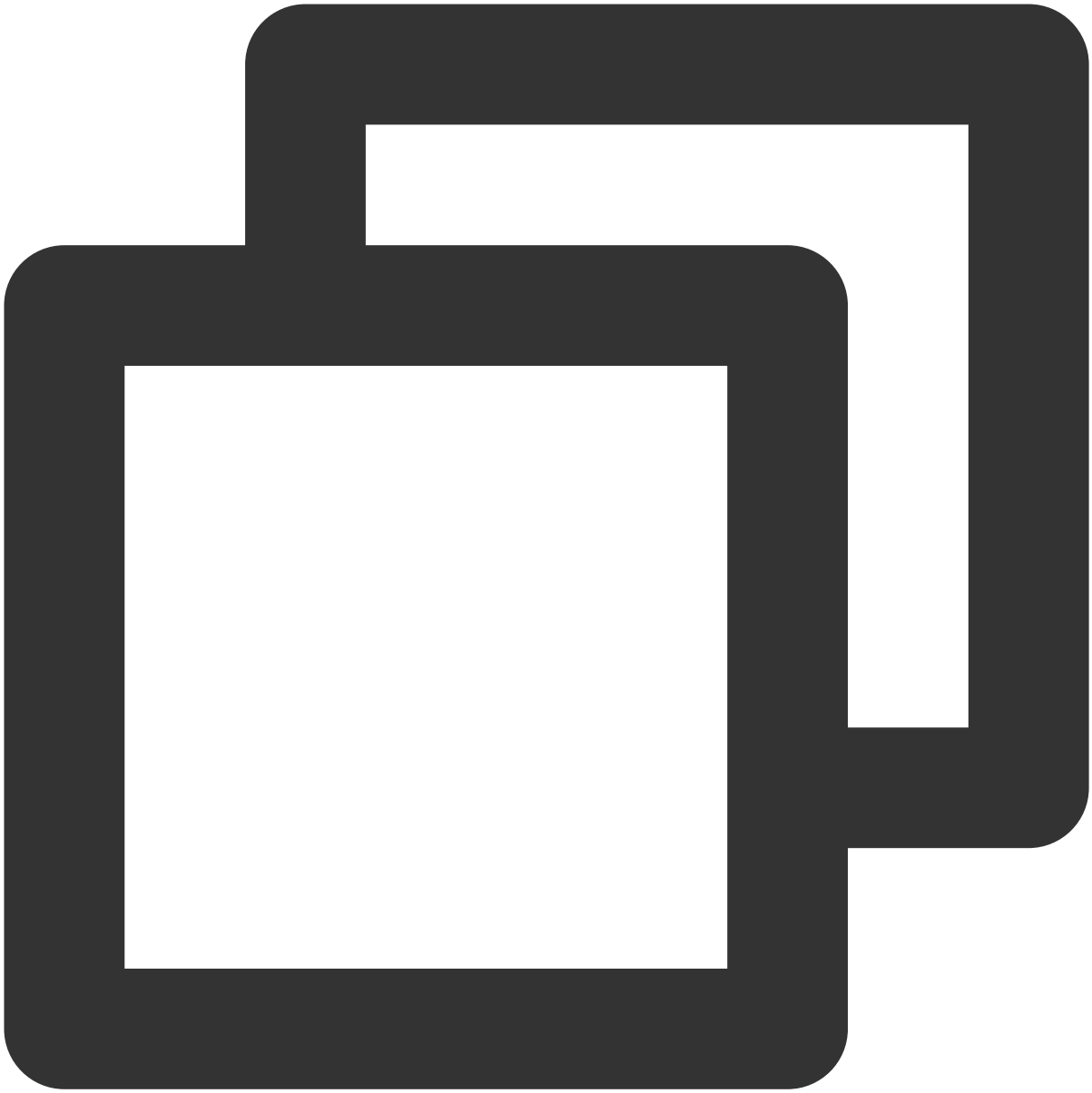
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```
transform.setFormatWith(CIImageFormat.typeJPG);
transform.setFormatWith(CIImageFormat.typeJPG, options: CILoadTypeEnum.urlFooter);
```

CILoadTypeEnum

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```
// Loading type option 1: Include the accept header accept:image/ ***
CILoadTypeAcceptHeader = 0,

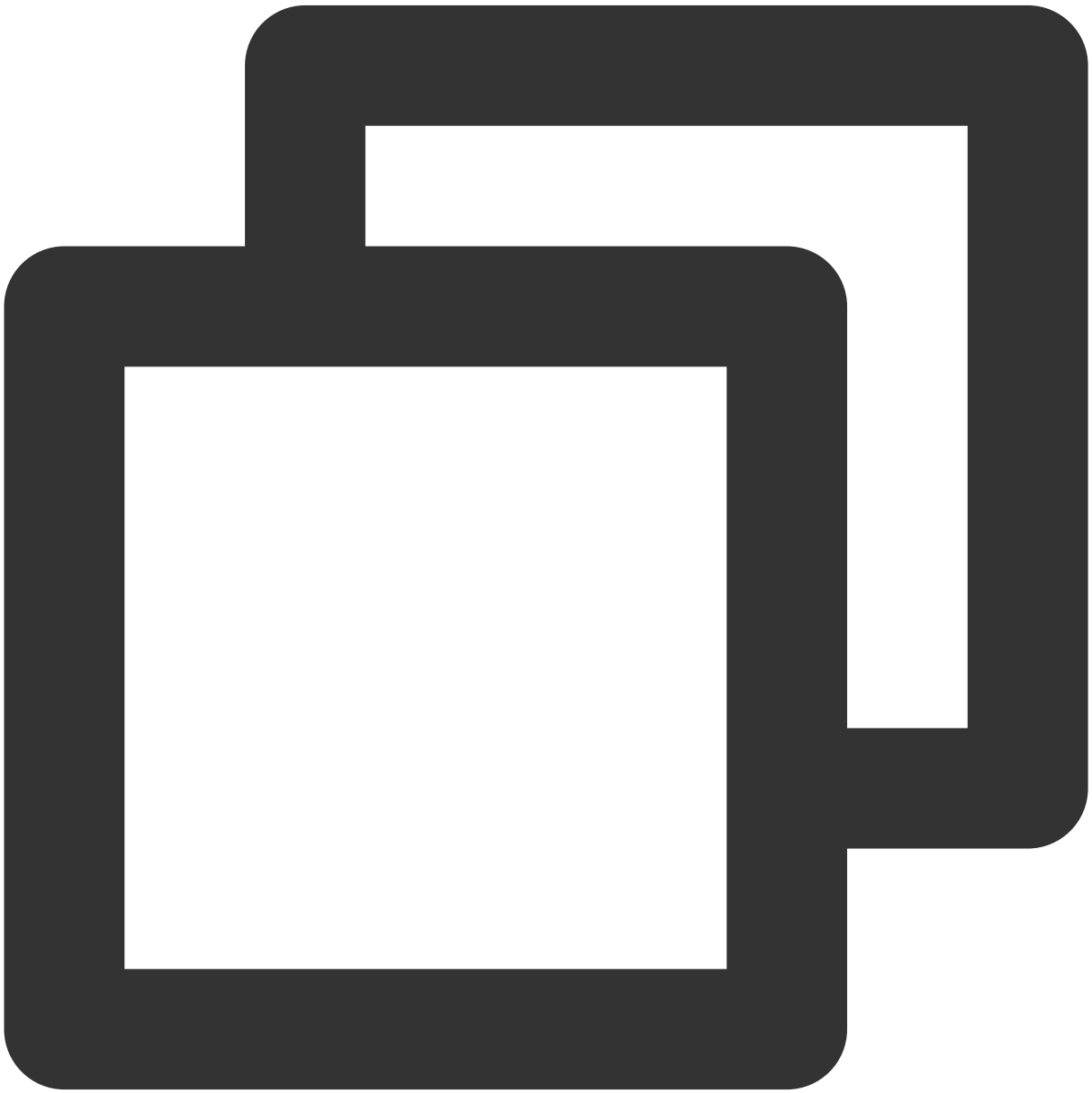
// Loading type option 2: Add imageMogr2/format/ *** after the URL
// If option 2 is needed, use this value. If this parameter is not specified, optio
CILoadTypeUrlFooter,
```

Note:

To use the HEIC format, iOS 11 or later is required. GIF images cannot be converted to HEIC.

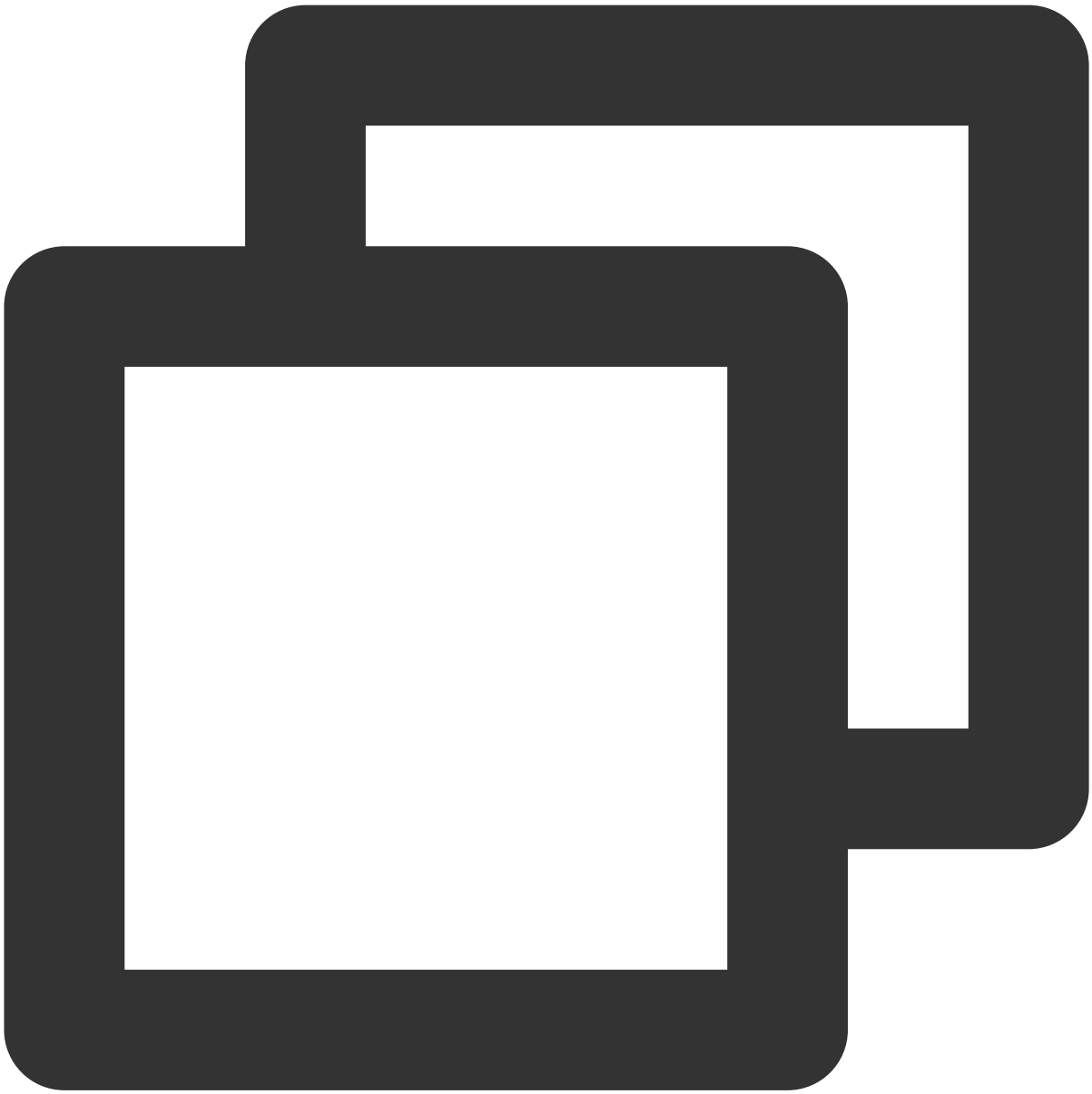
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If you pass in parameters using `CILoadTypeAcceptHeader` and have specified other image processing rules, the header will not take effect. Instead, the SDK will use footer automatically.
When using format conversion to convert an image to TPG format, you need to depend on the `CloudInfinite/TPG` module.
When using format conversion to convert an image to AVIF format, you need to depend on the `CloudInfinite/AVIF` module.
When using format conversion to convert an image to WEBP format, you need to depend on the `SDWebImageWebPCoder` library.



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```
pod 'CloudInfinite/TPG'
```

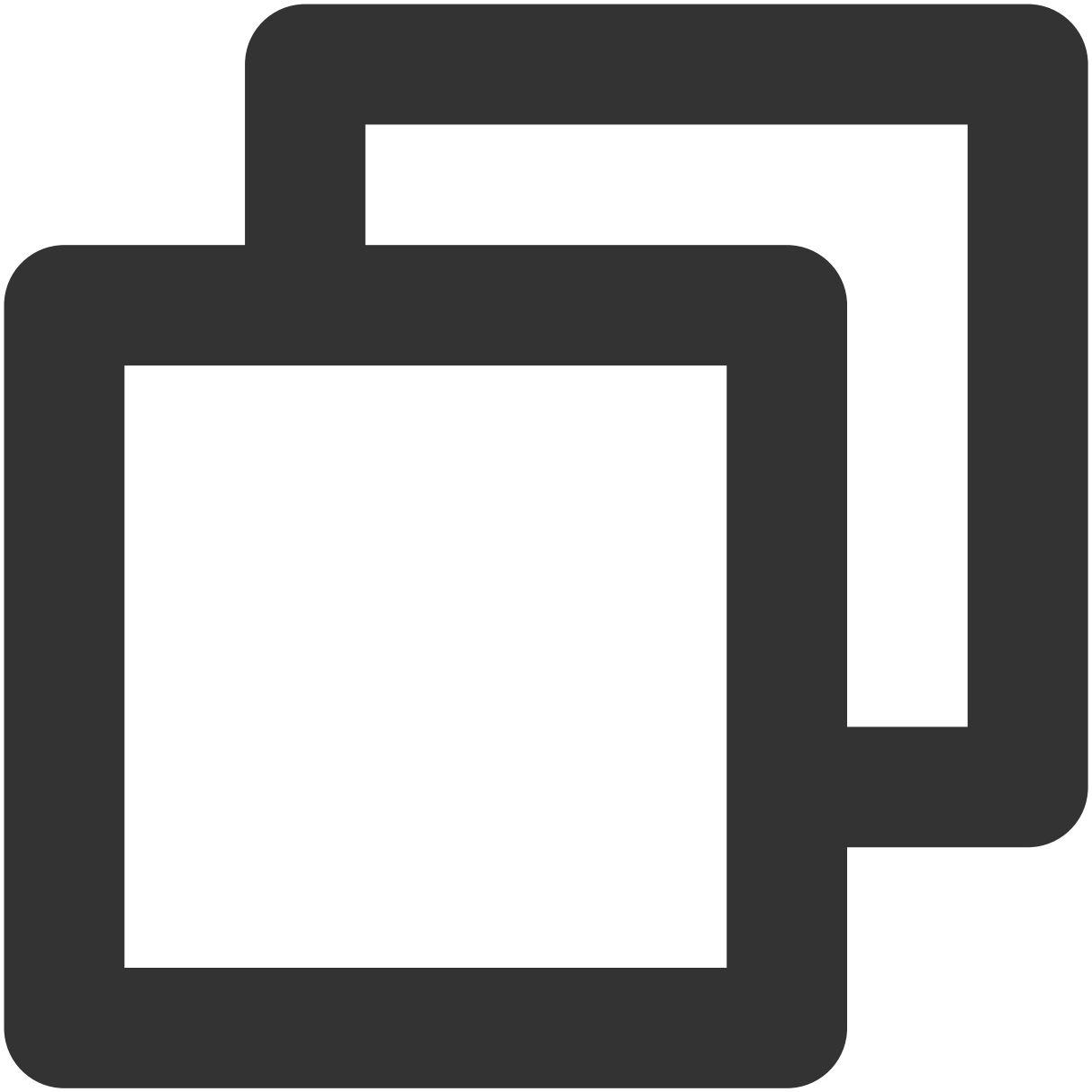


```
pod 'CloudInfinite/AVIF'
```

GIF optimization

This feature only optimizes GIF images to reduce frames and image colors.

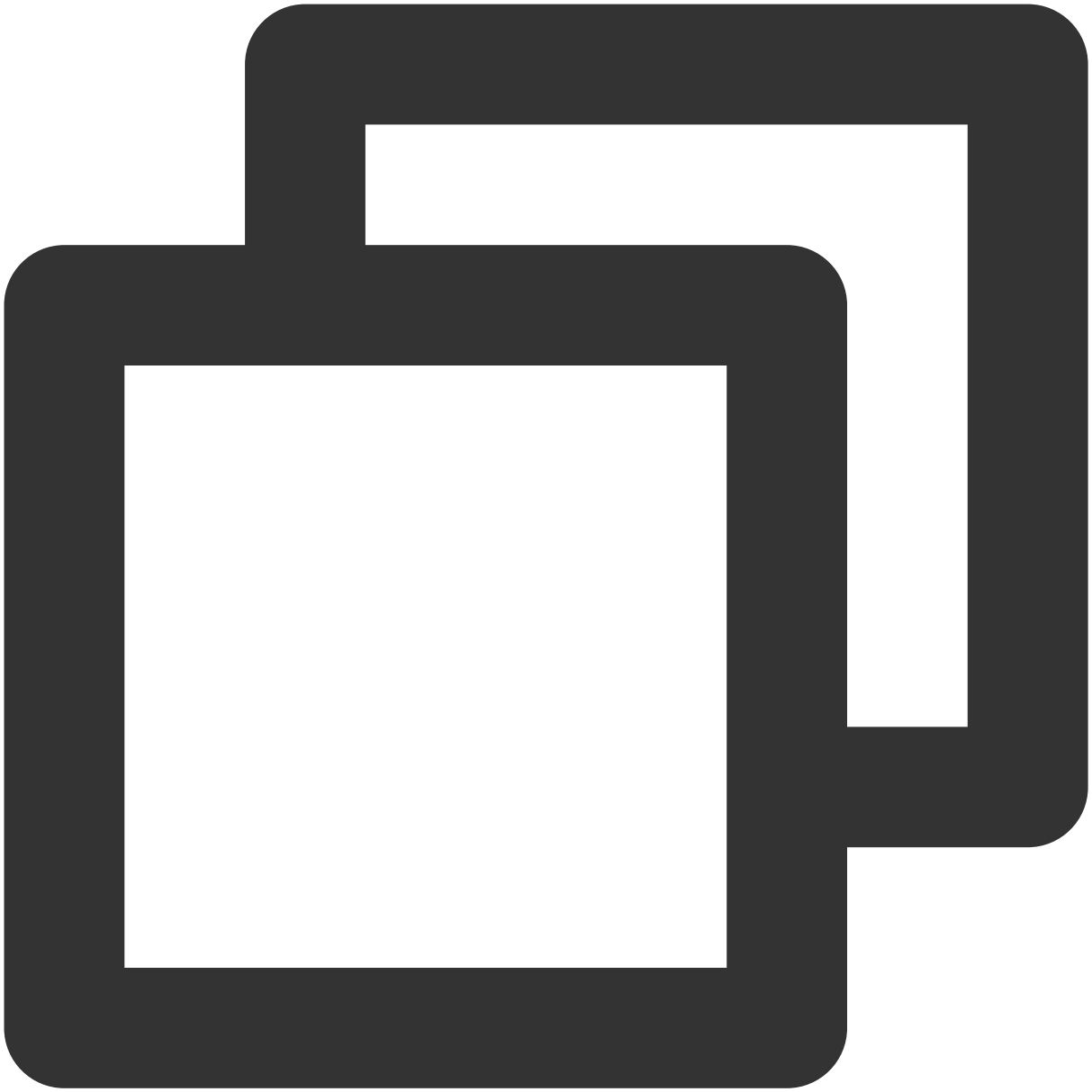
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```
FrameNumber=1: Cuts the input GIF to the default number of frames (30). If the orig
FrameNumber=(1,100]: Compresses the image to the specified number of frames (`Frame
```

Objective-C

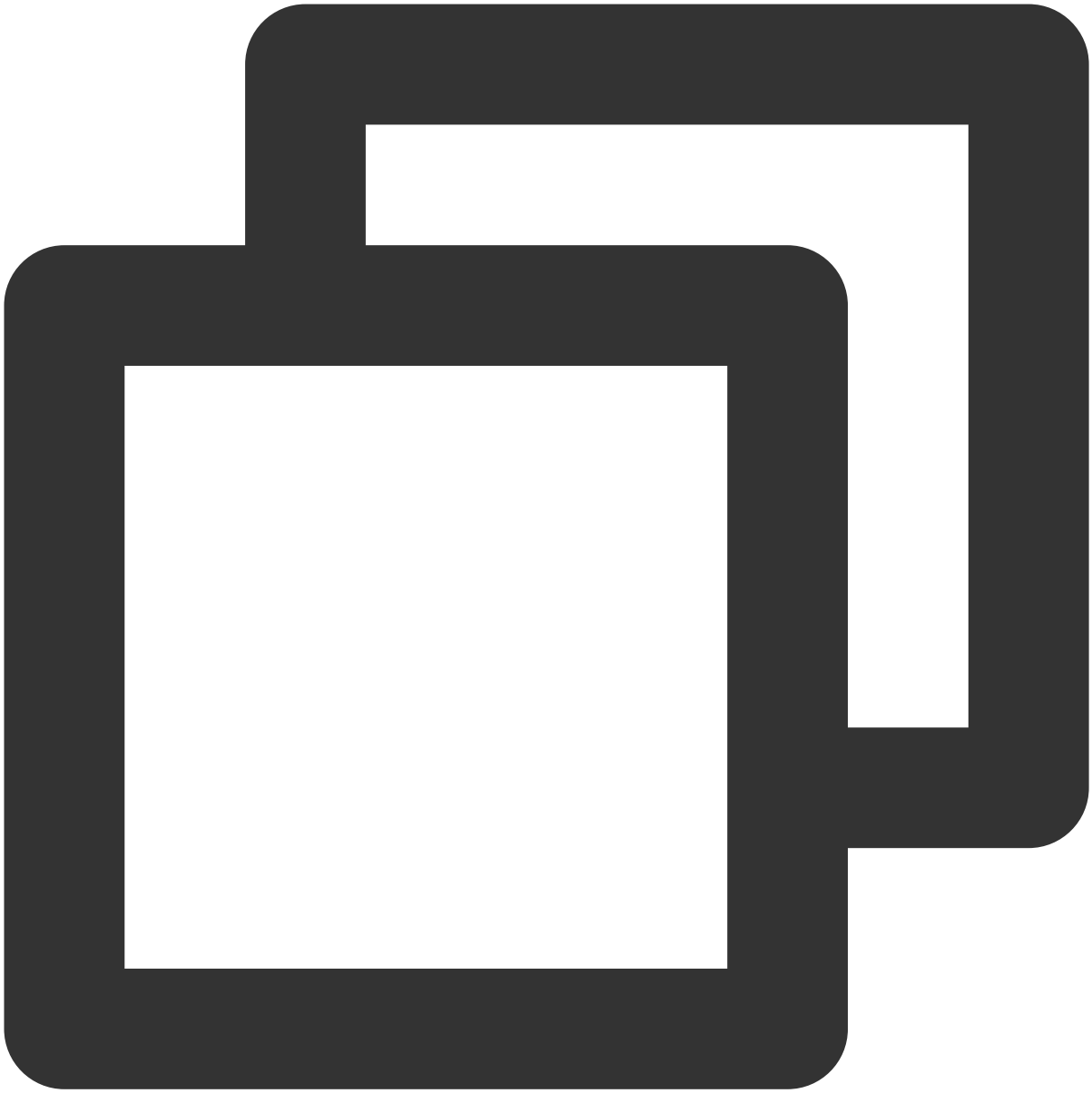
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```
[transform setCgif:50];
```

swift

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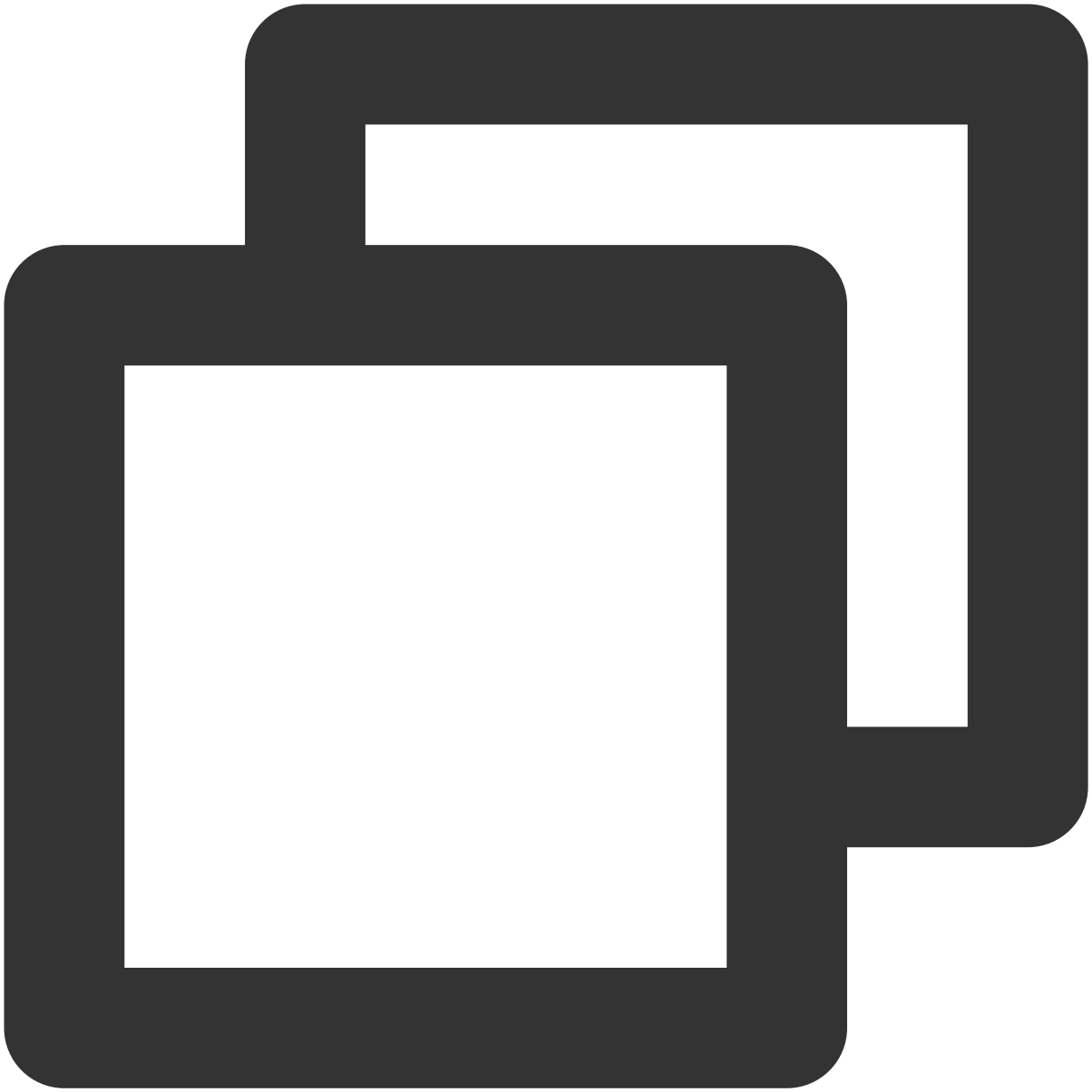
```
transform.setCgif(50)
```

Progressive mode of the output JPG image

`Mode` can be `0` or `1`. `0` (default value): Disables the progressive mode; `1`: Enables the progressive mode. This parameter takes effect only when the output image is in JPG format.

Objective

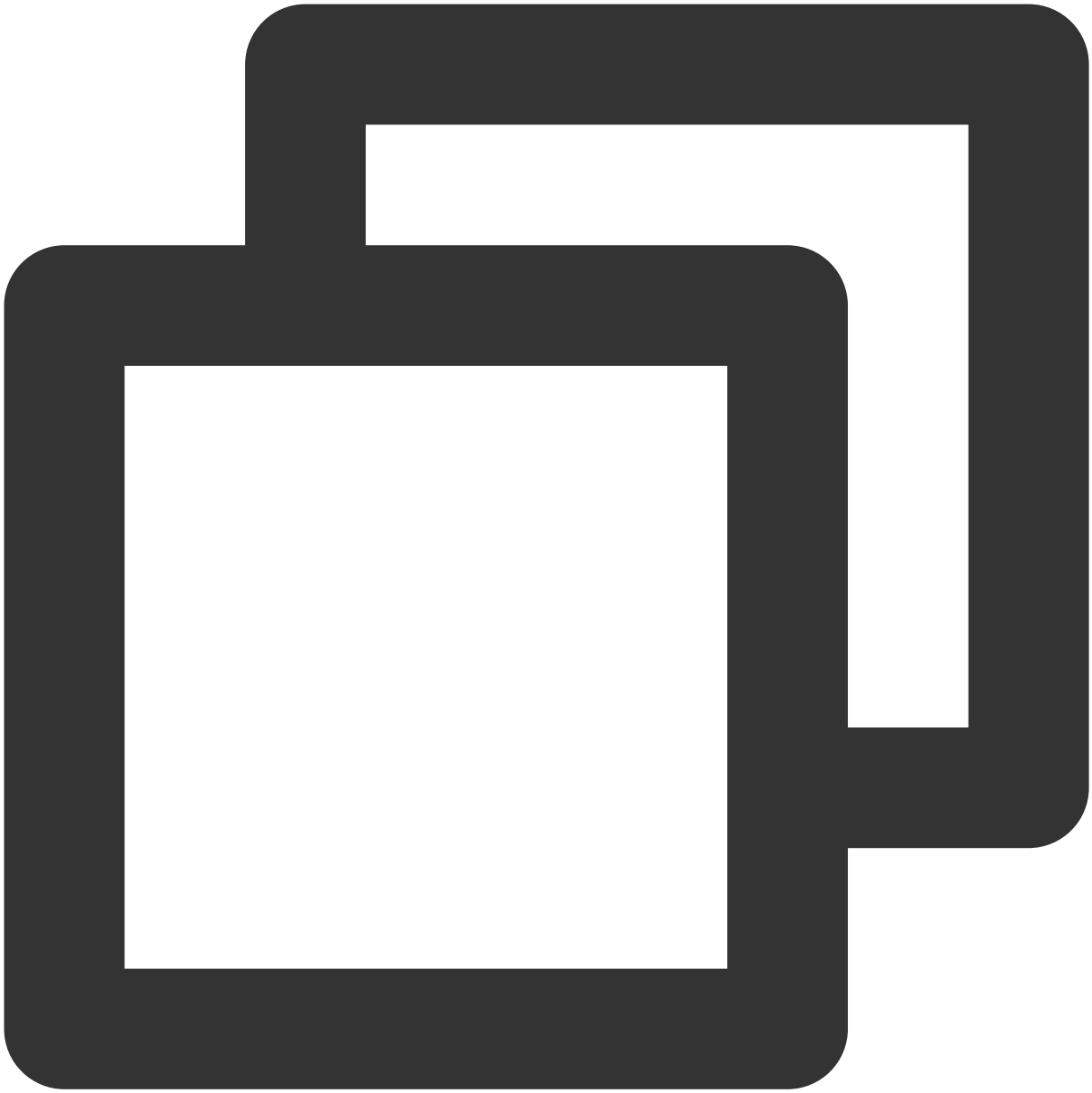
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```
[transform setInterlace:YES];
```

swift

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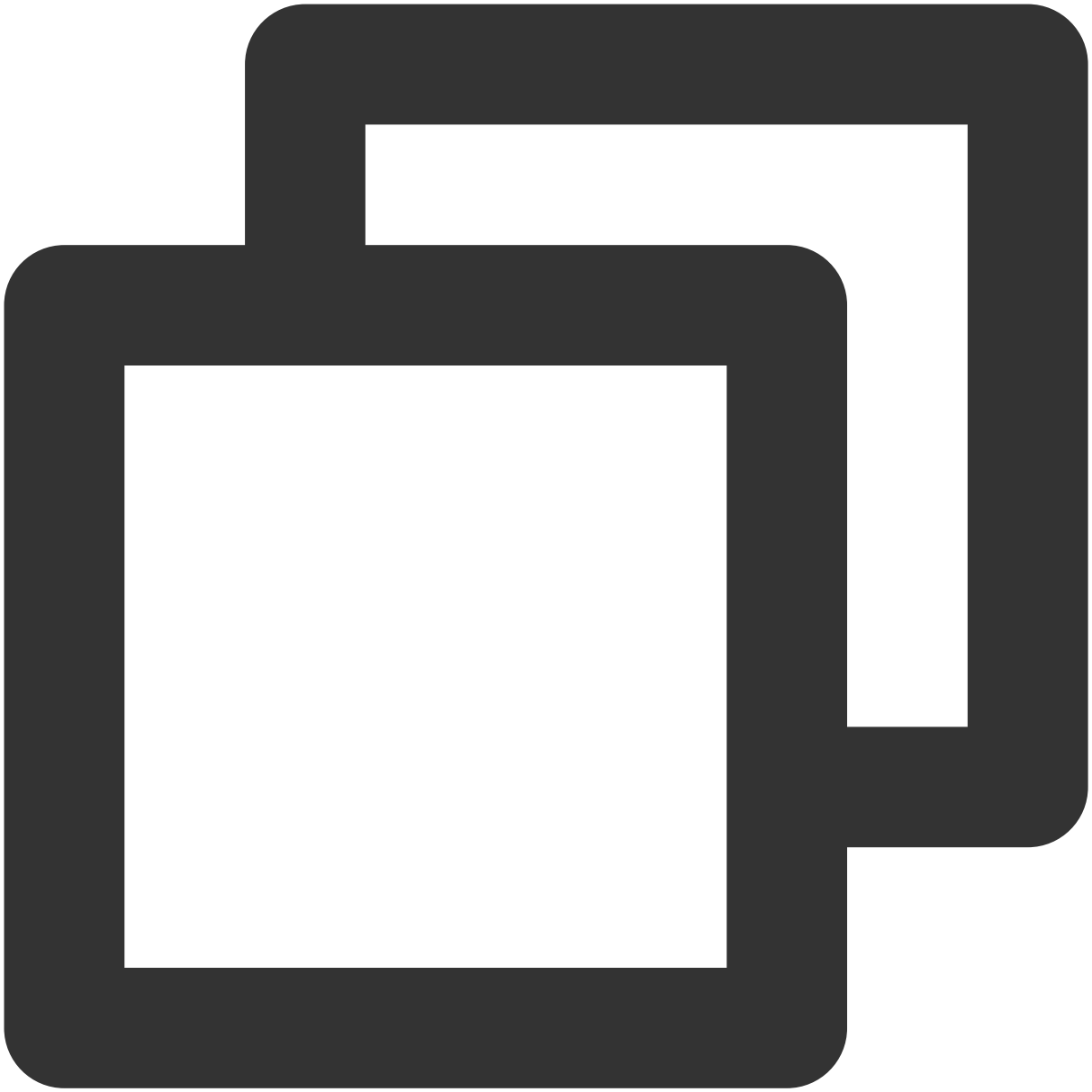
```
transform.setInterlace(true)
```

Quality Change

CI allows you to change the quality of an image. For the API documentation, see Quality Change.

Objective-C

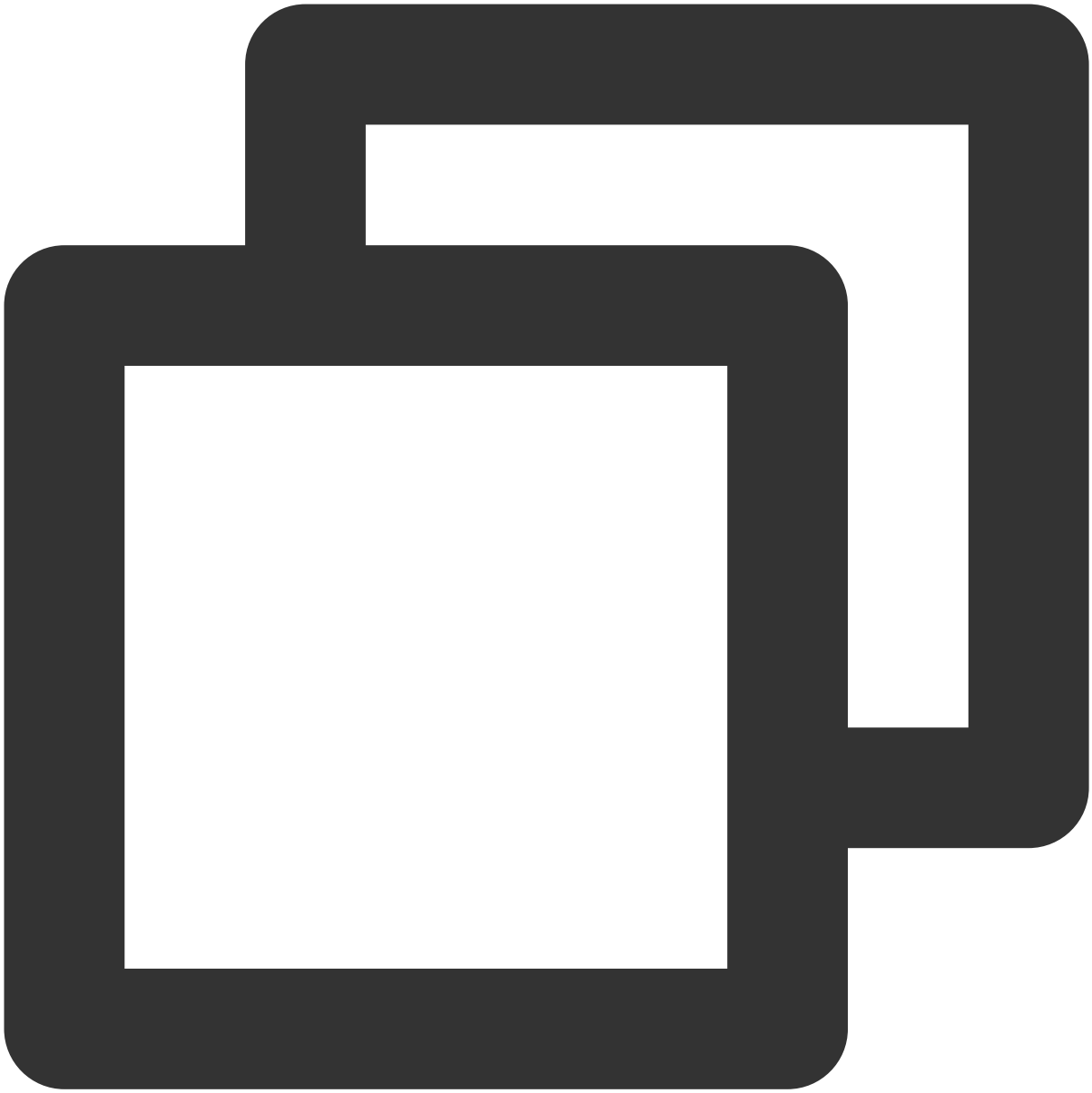
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```
// Change the absolute quality of the image to 60
// `type` is the change type as detailed below:
[transform setQualityWithQuality:60 type:CIQualityChangeAbsolute];
```

swift

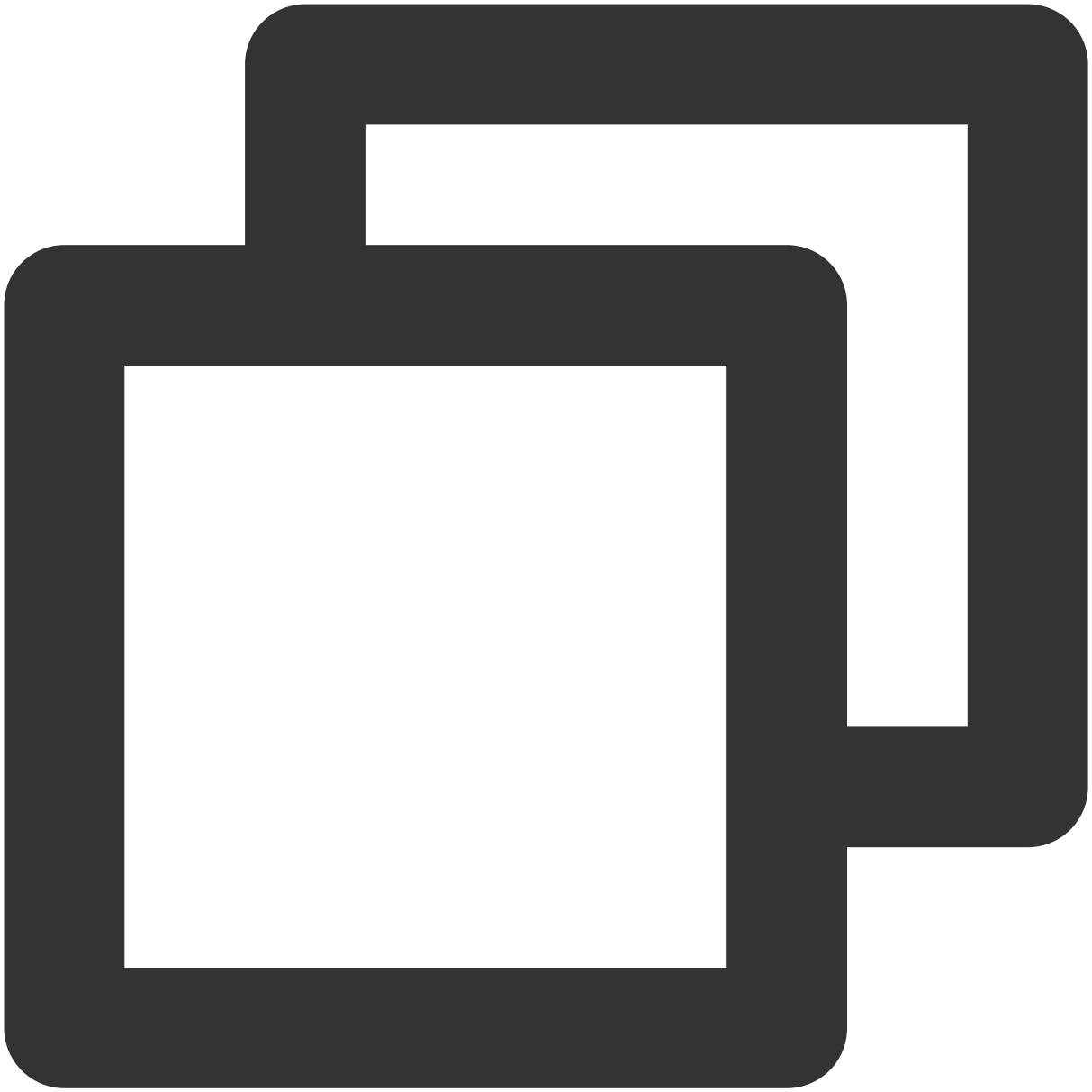
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```
transform.setQualityWithQuality(60, type: CIQualityChangeEnum.absolute)
```

CI supports change to three types of image quality: absolute, relative, and lowest. The absolute quality change supports forcibly specifying or not specifying the quality as follows:

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```
// The absolute quality of the image. The value can be 0-100. The default value is
CIQualityChangeAbsolute = 1,

// The absolute quality of the image. The value can be 0-100. The specified quality
CIQualityChangeAbsoluteFix,

// The image quality relative to that of the input image. The value can be 0-100. F
CIQualityChangeRelative,

// Set 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
```

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```
// If the input image quality is 60 and `lquality` is set to 80, the quality of the
CIQualityChangeLowest,
```

Note:

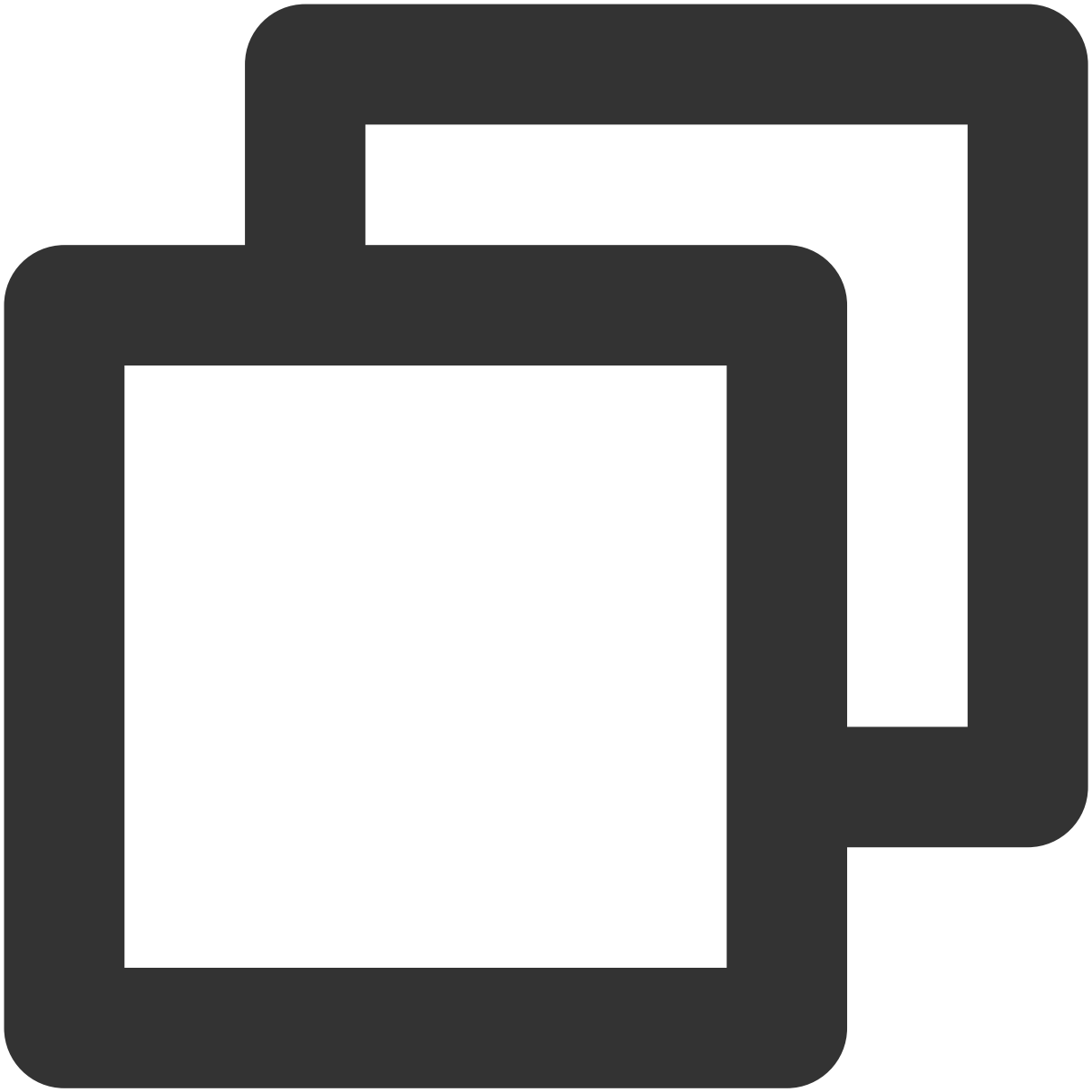
This operation is only available for JPG and WEBP images.

Gaussian Blurring

Gaussian blurring supports a blur radius ranging from 1 to 50, and the standard deviation of the normal distribution must be greater than 0. For the API documentation, see Gaussian Blurring.

Objective-C

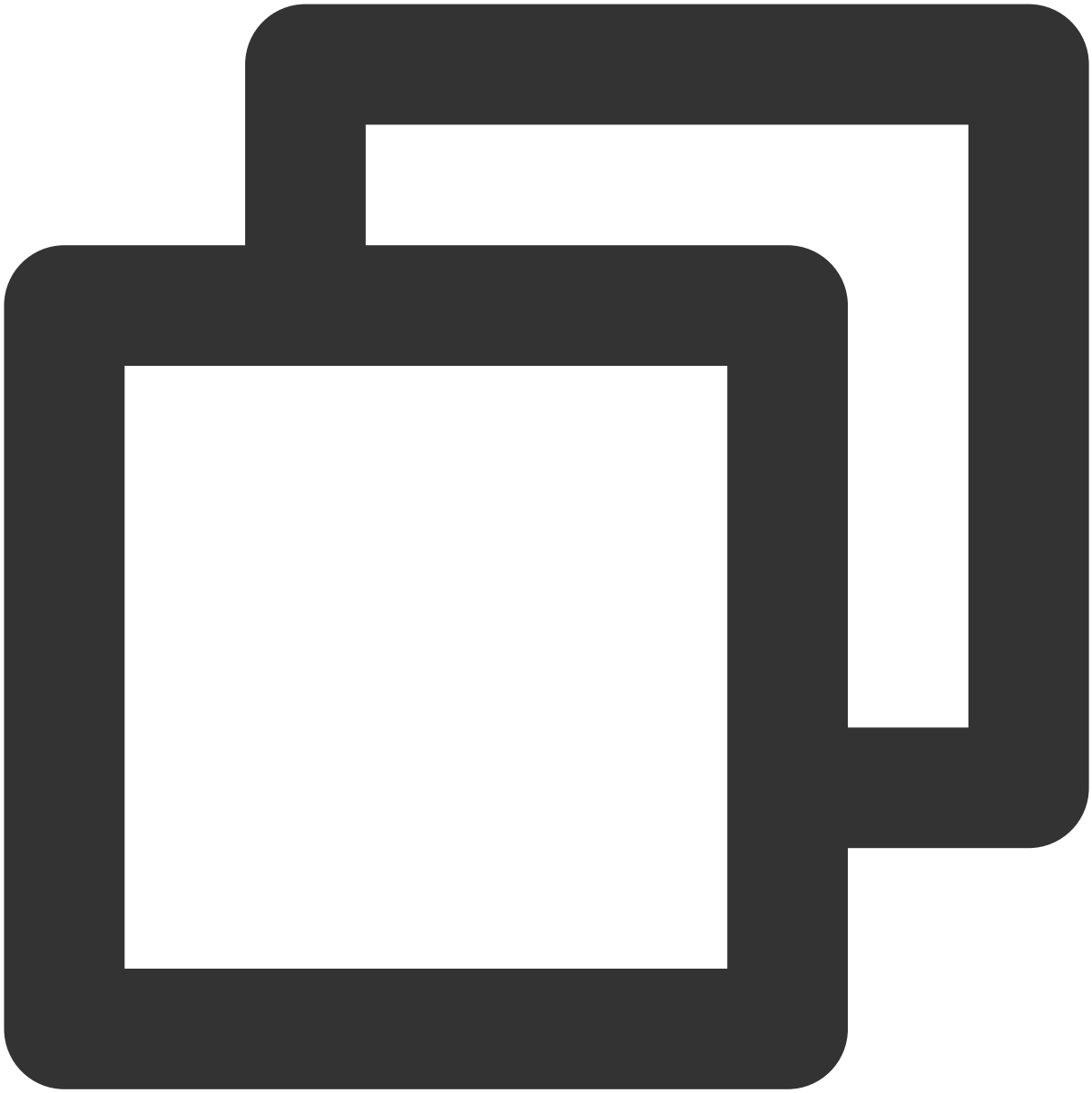
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```
// Set the blur radius to 20 and the standard deviation of the normal distribution
[transform setBlurRadius:20 sigma:20];
```

swift

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```
transform.setBlurRadius(20, sigma: 20)
```

Note:

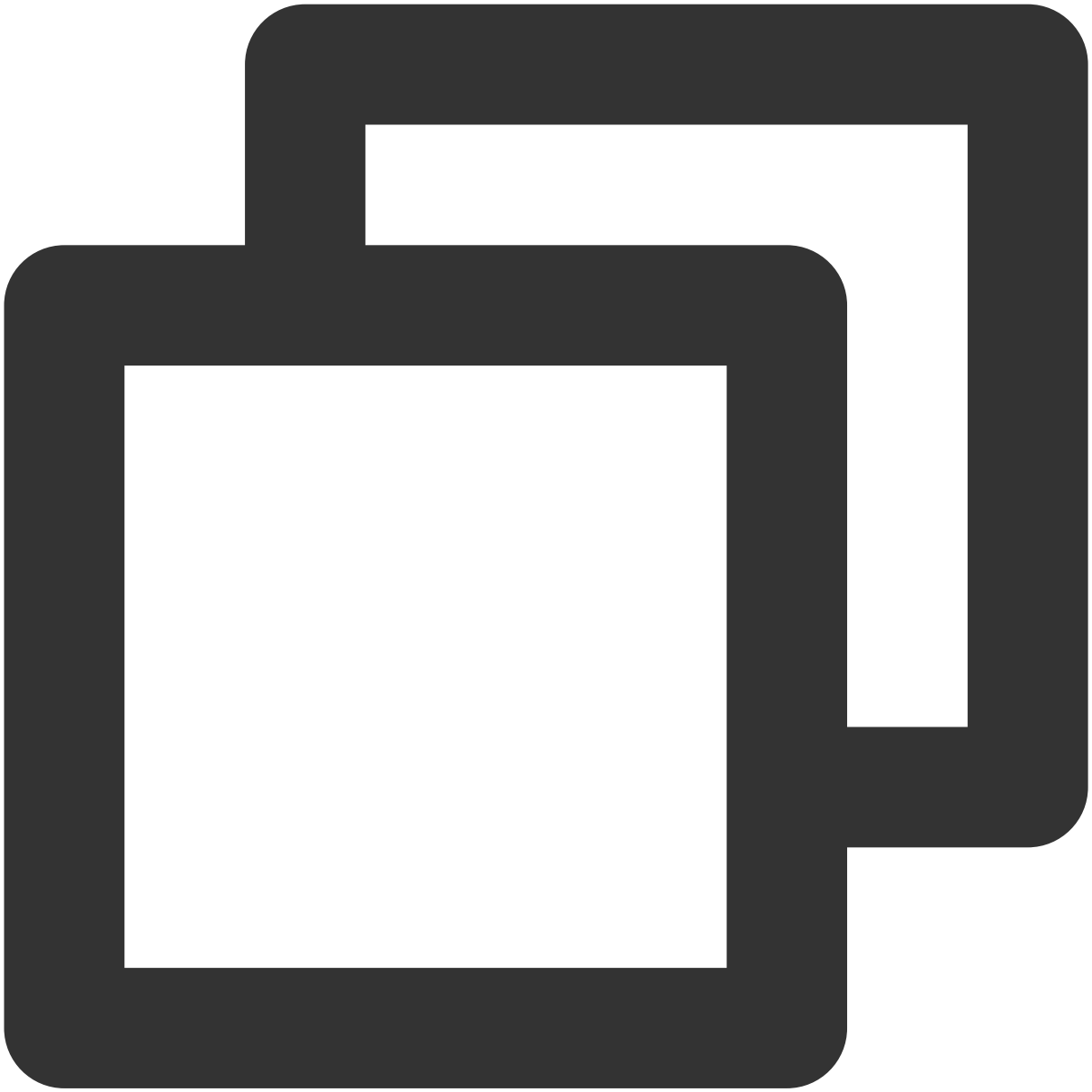
This operation is not available for GIF images.

Sharpening

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The sharpening value can be an integer ranging from 10 to 300 (70 is recommended). The greater the value, the more obvious the sharpening. For the API documentation, see Sharpening.

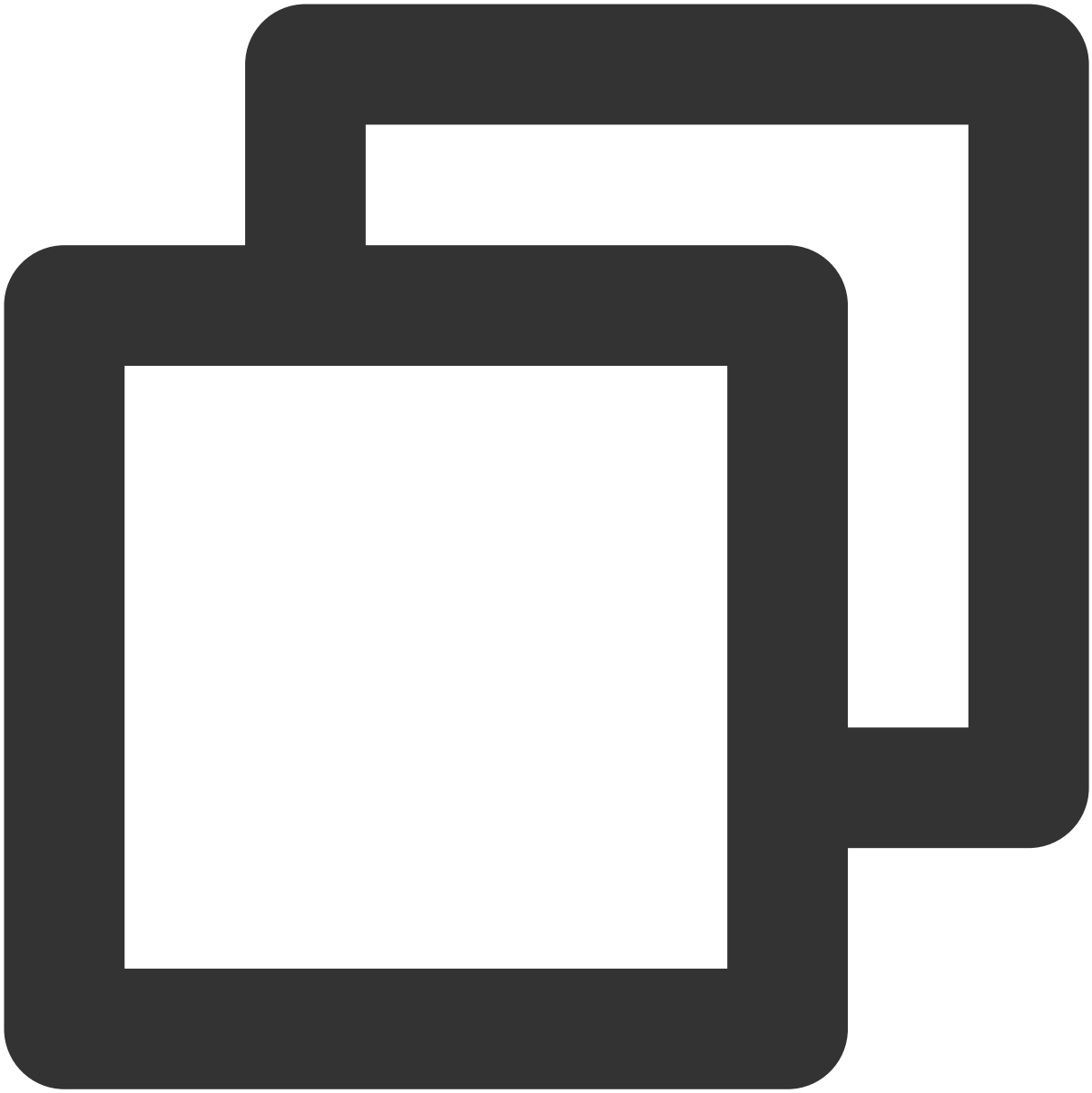
Objective-C



```
// Set the sharpening value to 100.
[transform setSharpenWith:100];
```

swift

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```
transform.setSharpenWith(100)
```

Watermarking

Note:

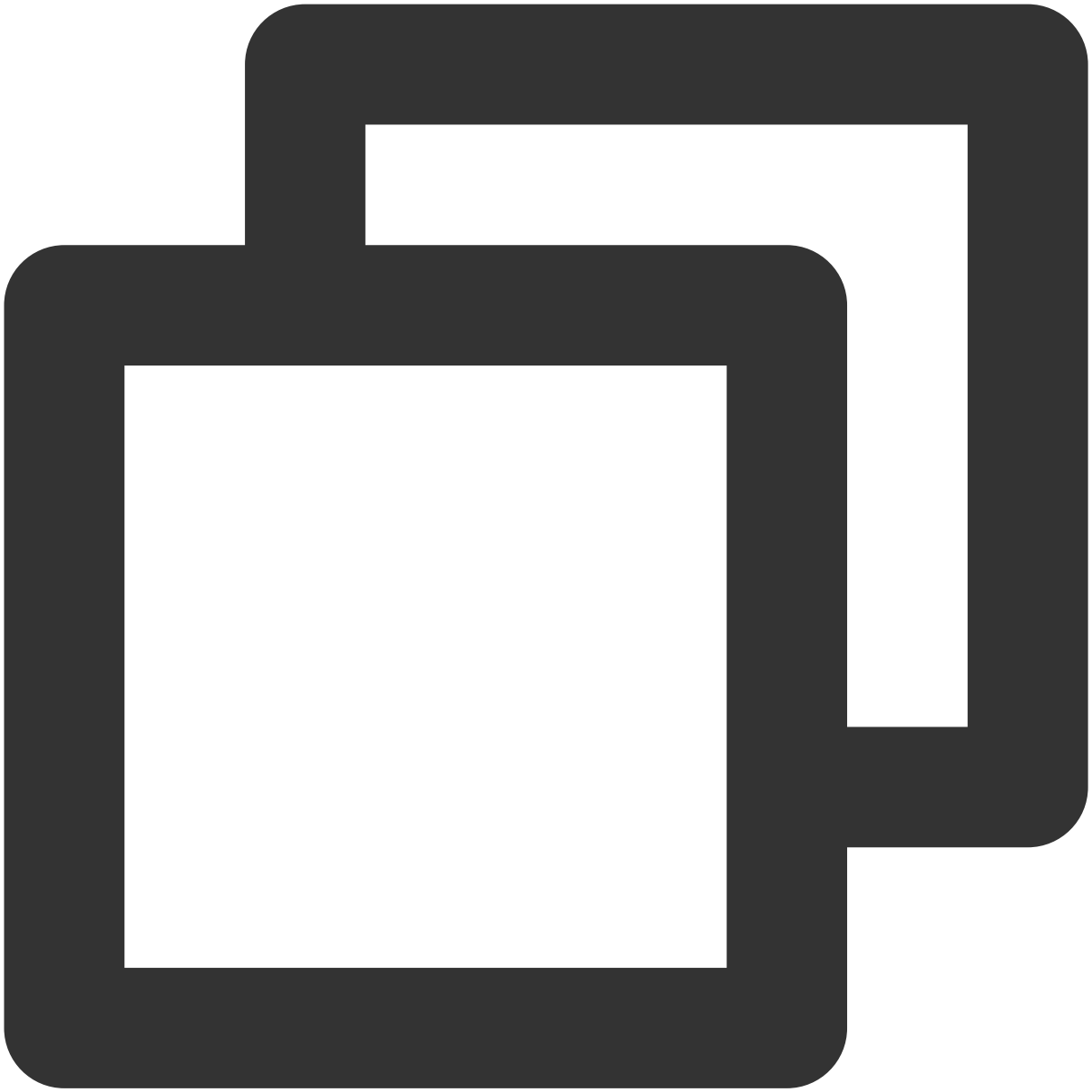
For the API documentation, see Image Watermarking and Text Watermarking.

For more information on the 3x3 grid position diagram, see Text Watermarking.

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Image watermark

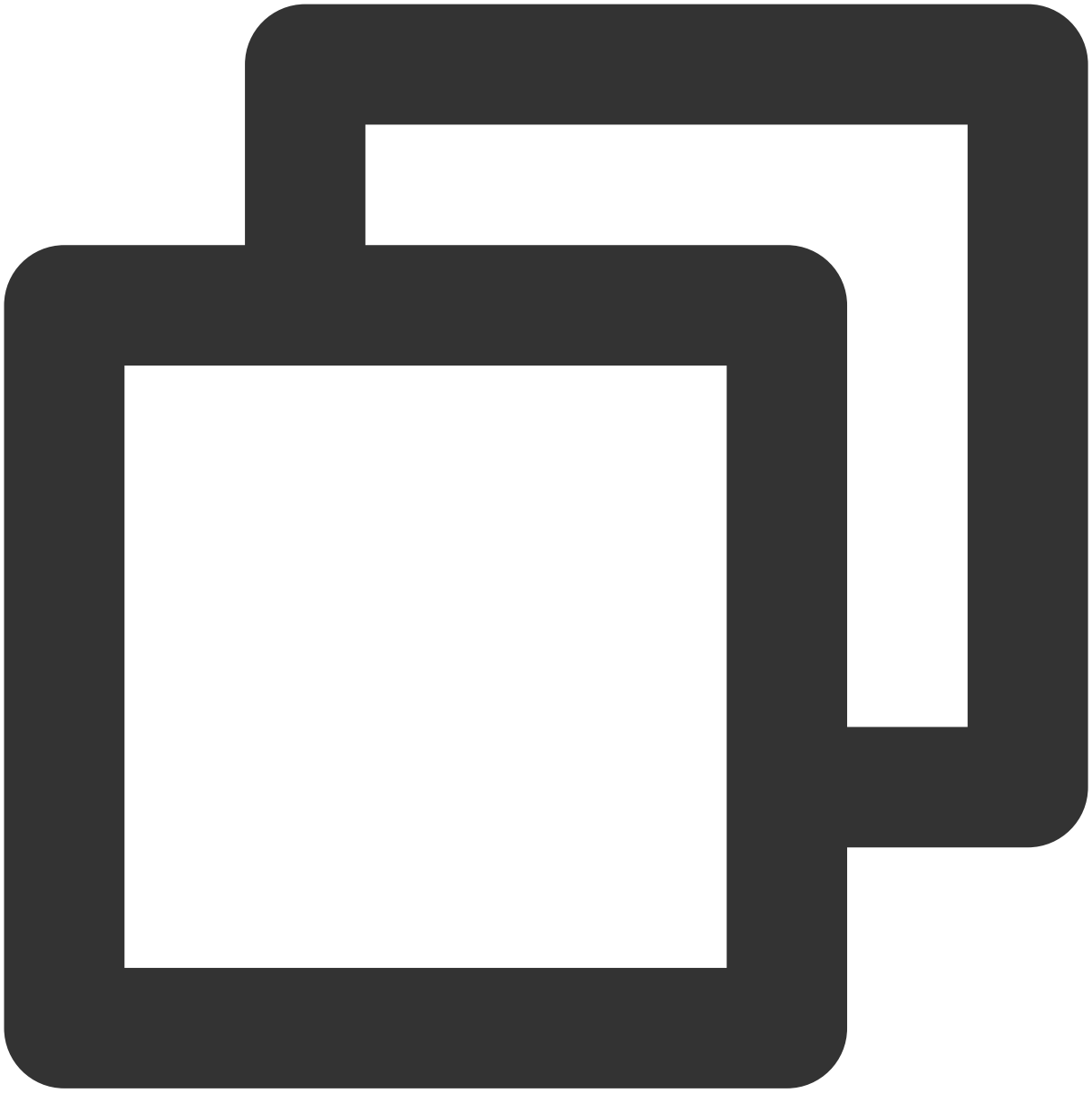
Objective-C



```
// imageUrl: Watermark image address.
// gravity: Position of the text watermark in the 3x3 grid position diagram. Defaul
// dx: Horizontal offset in px. Default value: `0`.
// dy: Vertical offset in px. Default value: `0`.
// blogo: Adaptation mode for an image watermark that is larger than the input imag
///    `1`: Scales the image watermark to the size of the input image.
///    `2`: Crops the image watermark to the size of the input image.
[tran setWaterMarkWithImageUrl:@"http://tpg-1253653367.cos.ap-guangzhou.myqcloud.co
```

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swift

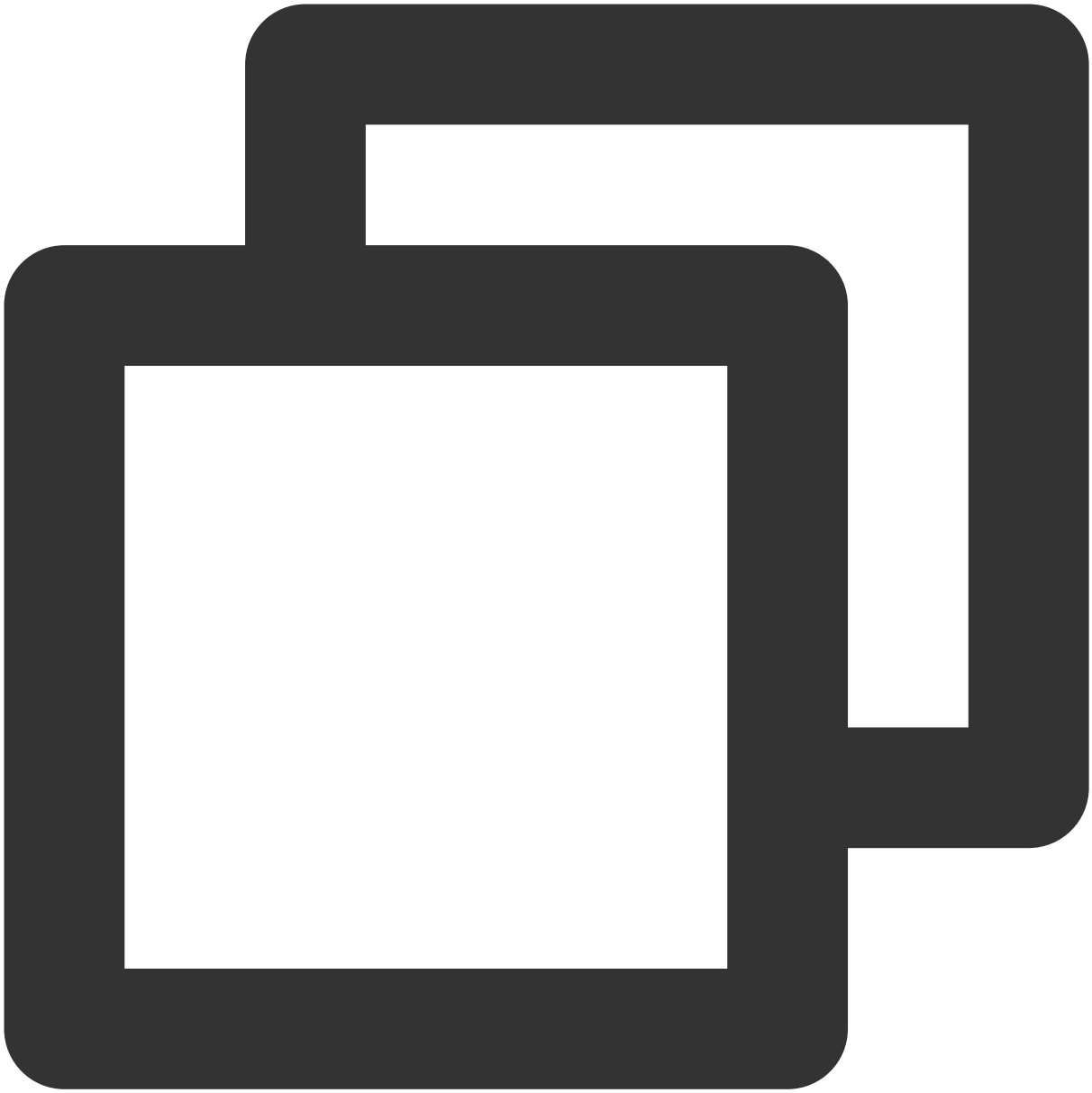


```
transform.setWaterMarkWithImageUrl("", gravity: CloudInfiniteGravity.CIGravityCente
```

Text watermark

Objective-C

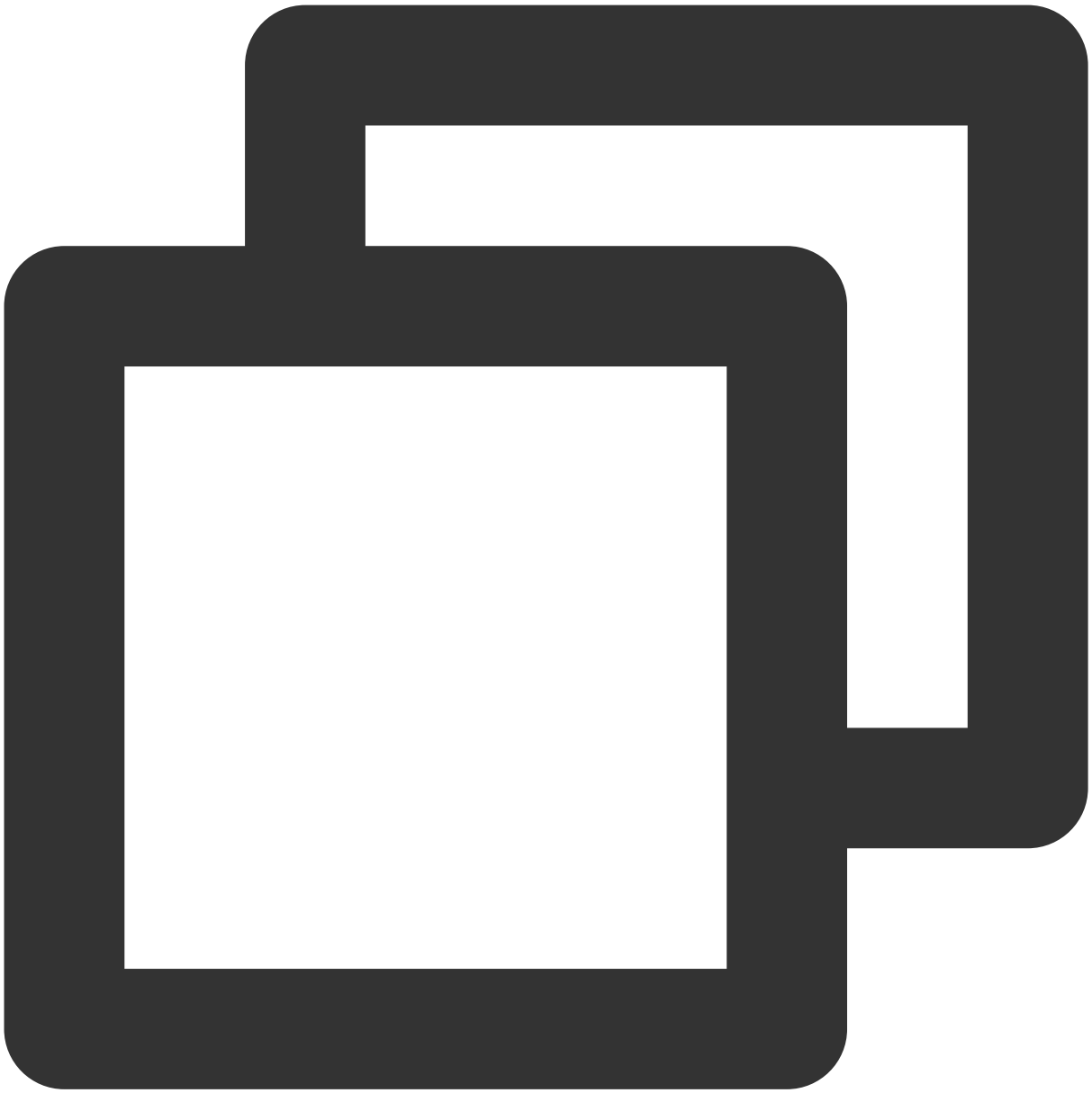
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```
// text: Watermark content
// font: Watermark font
// color: Font color. Default value: #3D3D3D.
// dissolve: Text opacity. Value range: 1-100. Default value: `90`.
// gravity: Position of the text watermark. Default value: `SouthEast`.
// dx: Horizontal offset in px. Default value: `0`.
// dy: Vertical offset in px. Default value: `0`.
// batch: Whether to tile the text watermark. If this parameter is set to `1`, the
// degree: The angle to rotate the text watermark. Value range: 0-360. Default valu
[transform setWaterMarkText:@"Tencent Cloud CI" font:nil textColor:nil dissolve:90
```

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swift



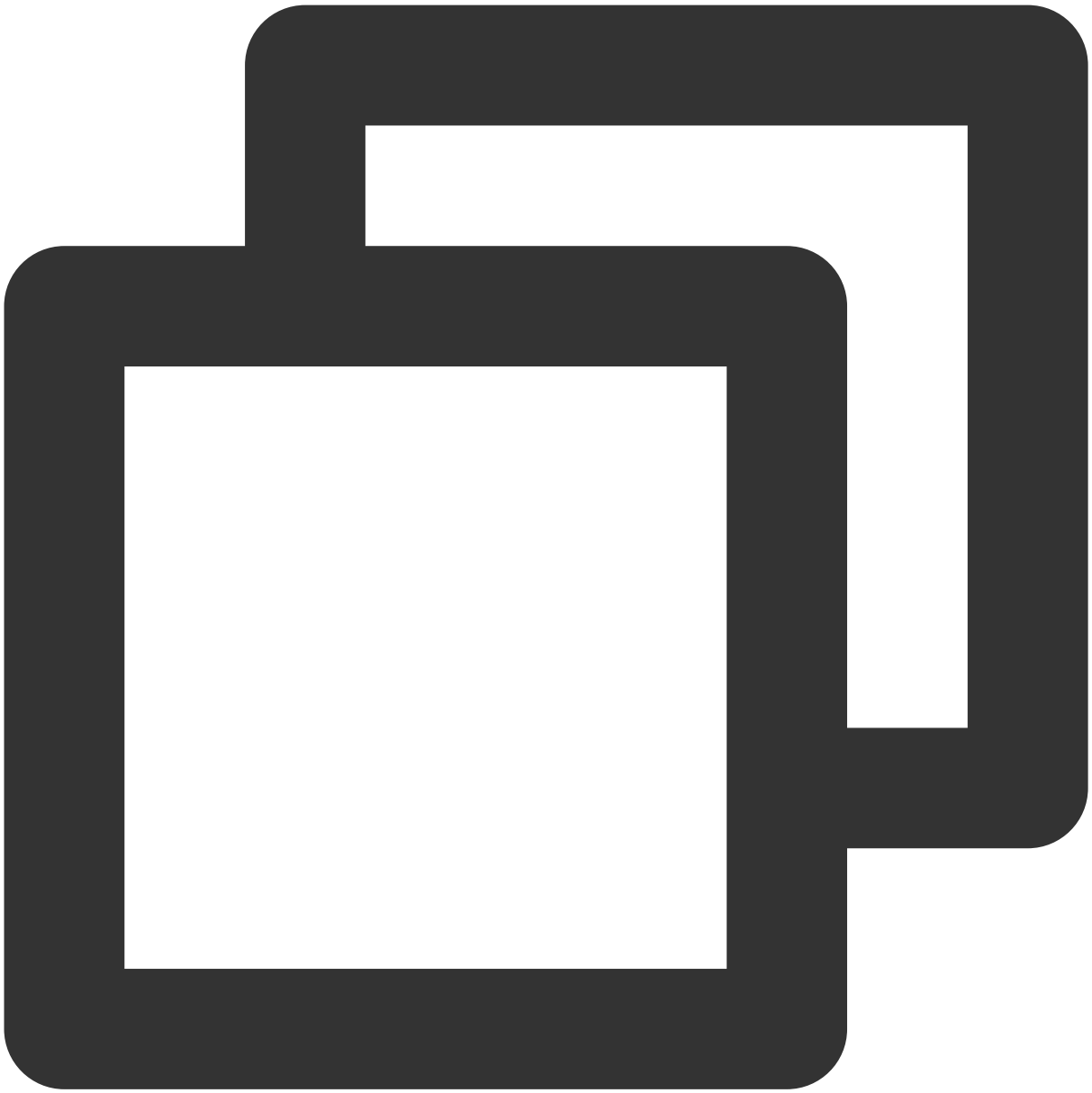
```
transform.setWaterMarkText("Tencent Cloud CI", font: nil, textColor: nil, dissolve:
```

Obtaining Image Average Hue

CI uses the `imageAve` API to obtain the average hue of an image. For more information on the API, see Obtaining Image's Average Hue.

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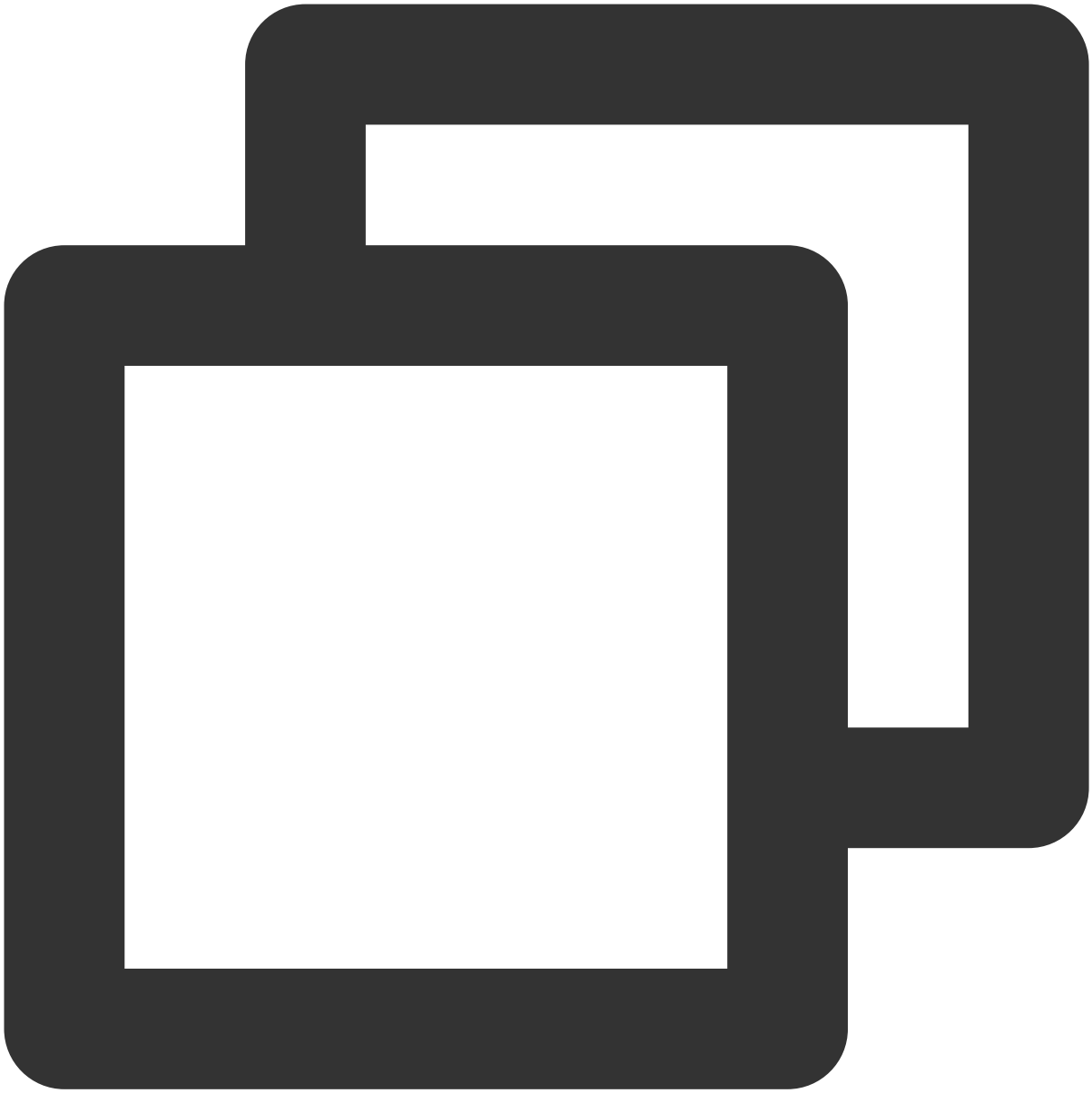
Objective-C



```
[transform setViewBackgroudColorWithImageAveColor:YES]
```

swift

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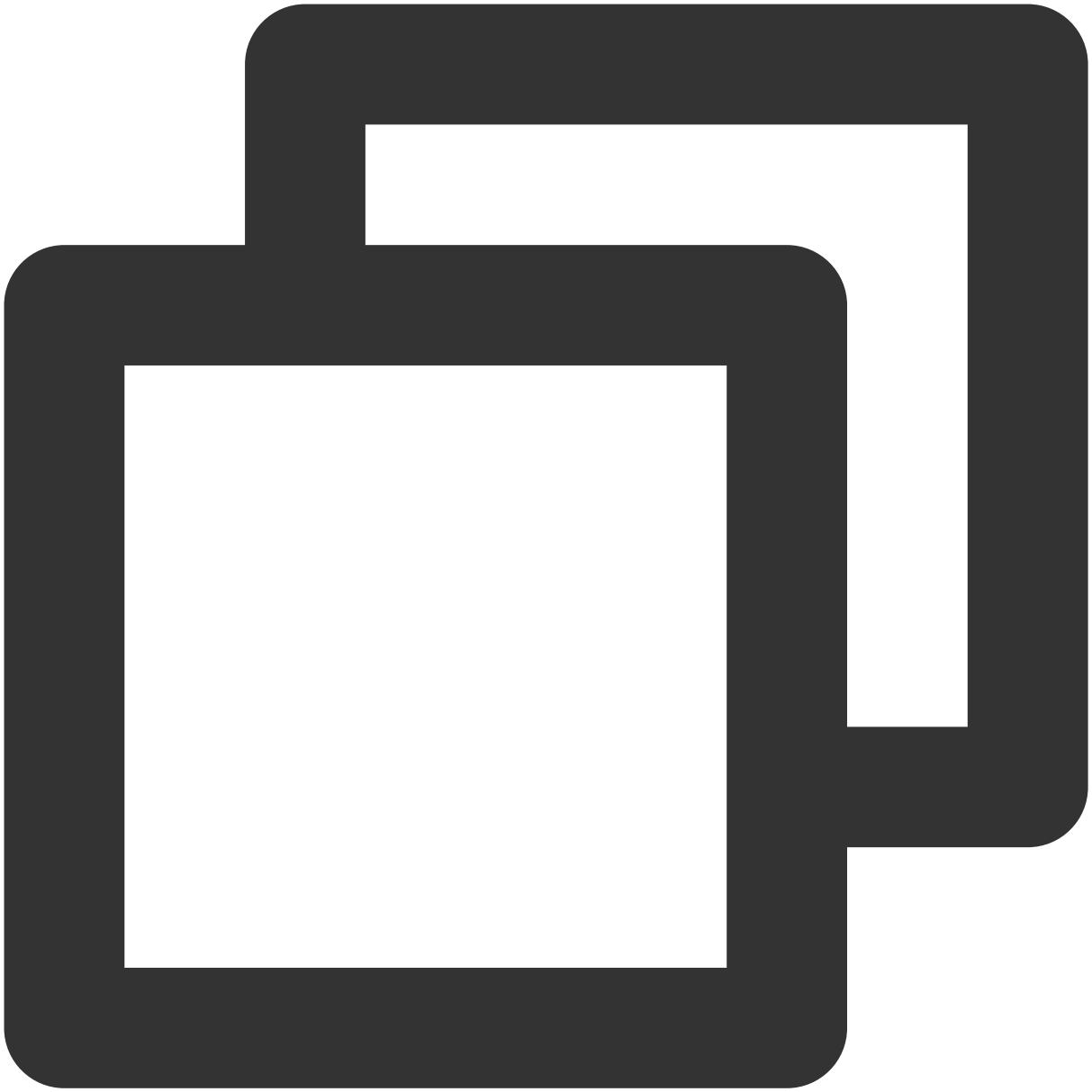
```
transform.setViewBackgroudColorWithImageAveColor(true)
```

Removing Image Metadata

CI uses the `imageMogr2` API to remove image metadata, including the EXIF data. For the API documentation, see Removing Image Metadata.

Objective-C

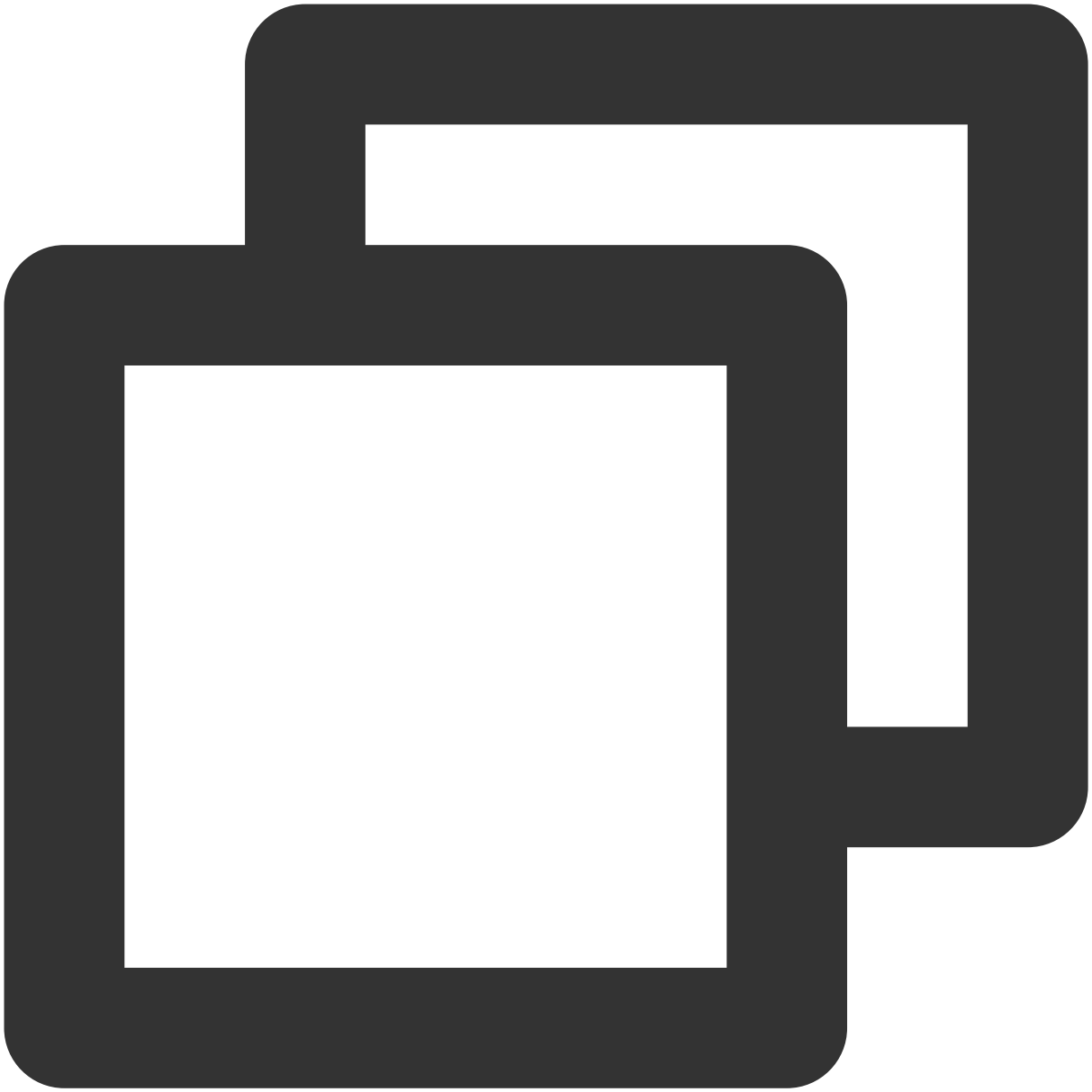
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```
[transform setImageStrip];
```

swift

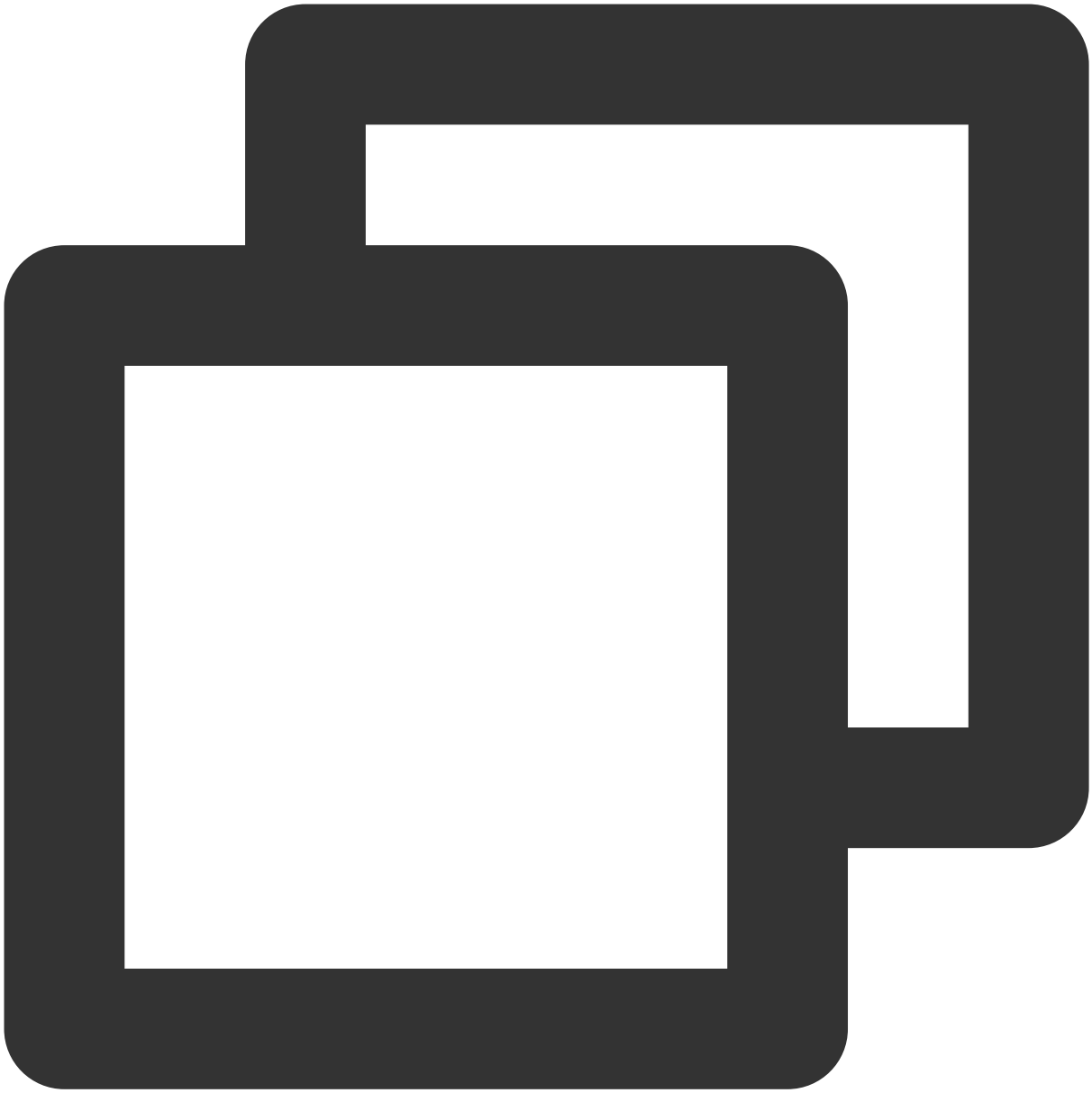
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```
transform.setImageStrip()
```

Combined Operations

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```
CITransformation * tran = [CITransformation new];
//    ***************Scaling*************
// Scale to 50%
[transform setZoomWithPercent:50 scaleType:ScalePercentTypeALL];


//    **Format conversion
// Convert to TPG format
[tran setFormatWith:CIImageTypeTPG];
//    **Cropping
```

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```
// Crop the image. Width and height: 100; top left and left: 30 30
[tran setCutWithWidth:100 height:100 dx:30 dy:30];
```

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COS Android SDK
Content Moderation
Image Moderation

Last updated：2024-03-04 10:32:42

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for image moderation.

API	Operation	Description
SensitiveContentRecognition	Moderating an image synchronously	Moderates an image synchronously.
PostImagesAudit	Batch moderating images	Batch moderates images.
GetImageAudit	Querying the image moderation job result	Queries the result of the specified image moderation job.

SDK API References

For the parameters and method descriptions of all the APIs in the SDK, see SDK API Reference.

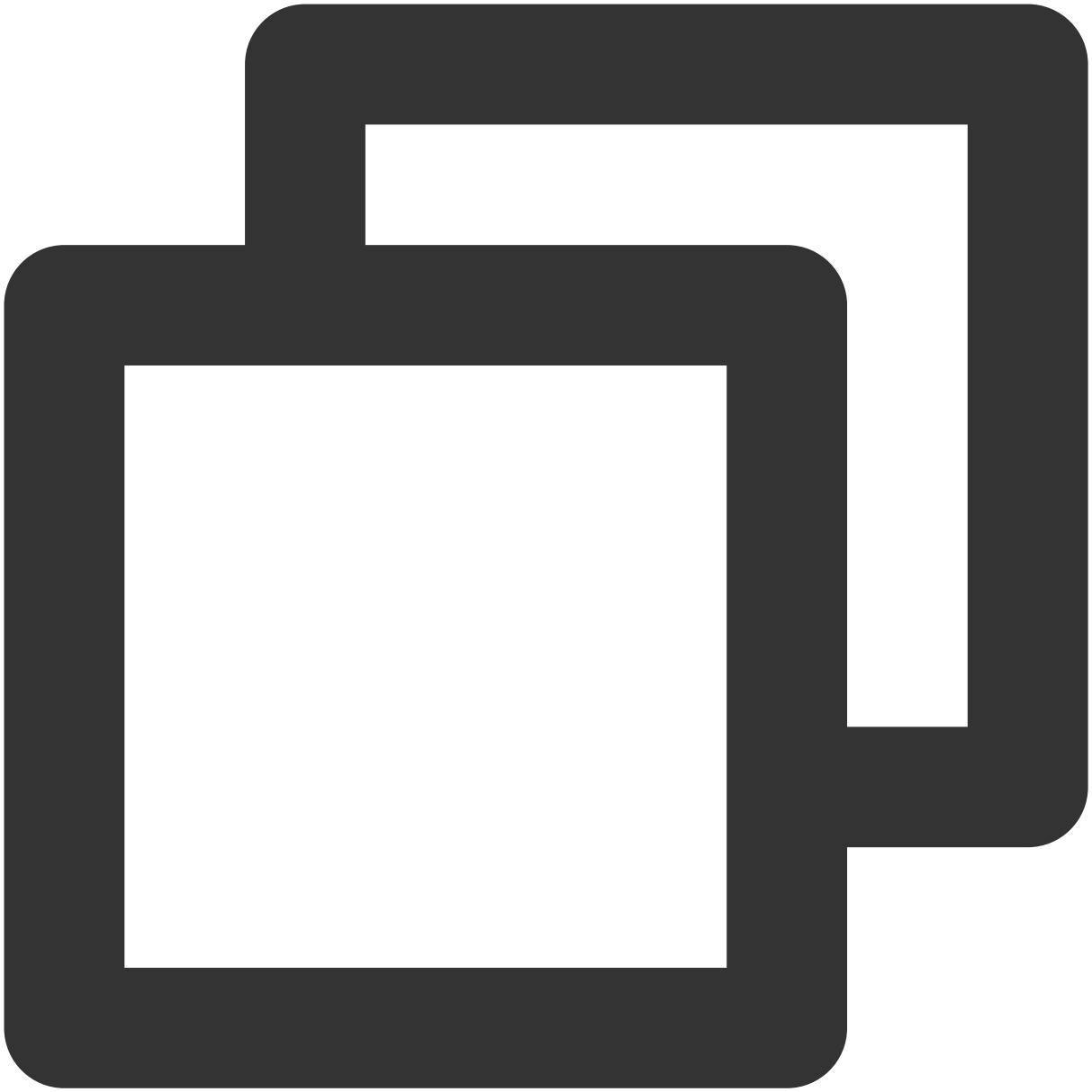
Single Image Moderation

Feature description

This API is used to moderate an image synchronously.

Sample code

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```
// Bucket name in the format of `BucketName-APPID` (`APPID` is required), which can
String bucket = "examplebucket-1250000000";
String key = "exampleobject"; // Object key
SensitiveContentRecognitionRequest sensitiveContentRecognitionRequest = new Sensiti
sensitiveContentRecognitionRequest.addType("ads");
// `CIService` is a subclass of `CosXmlService` and has the same initialization met
ciService.sensitiveContentRecognitionAsync(sensitiveContentRecognitionRequest, new
    @Override
    public void onSuccess(CosXmlRequest request, CosXmlResult result) {
        SensitiveContentRecognitionResult sensitiveContentRecognitionResult = (Sens
    }
```

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```
    @Override
    public void onFail(CosXmlRequest request, CosXmlClientException clientException
        if (clientException != null) {
            clientException.printStackTrace();
        } else {
            serviceException.printStackTrace();
        }
    }
});
```

Note:

For more samples, please visit GitHub.

Batch Image Moderation

Feature description

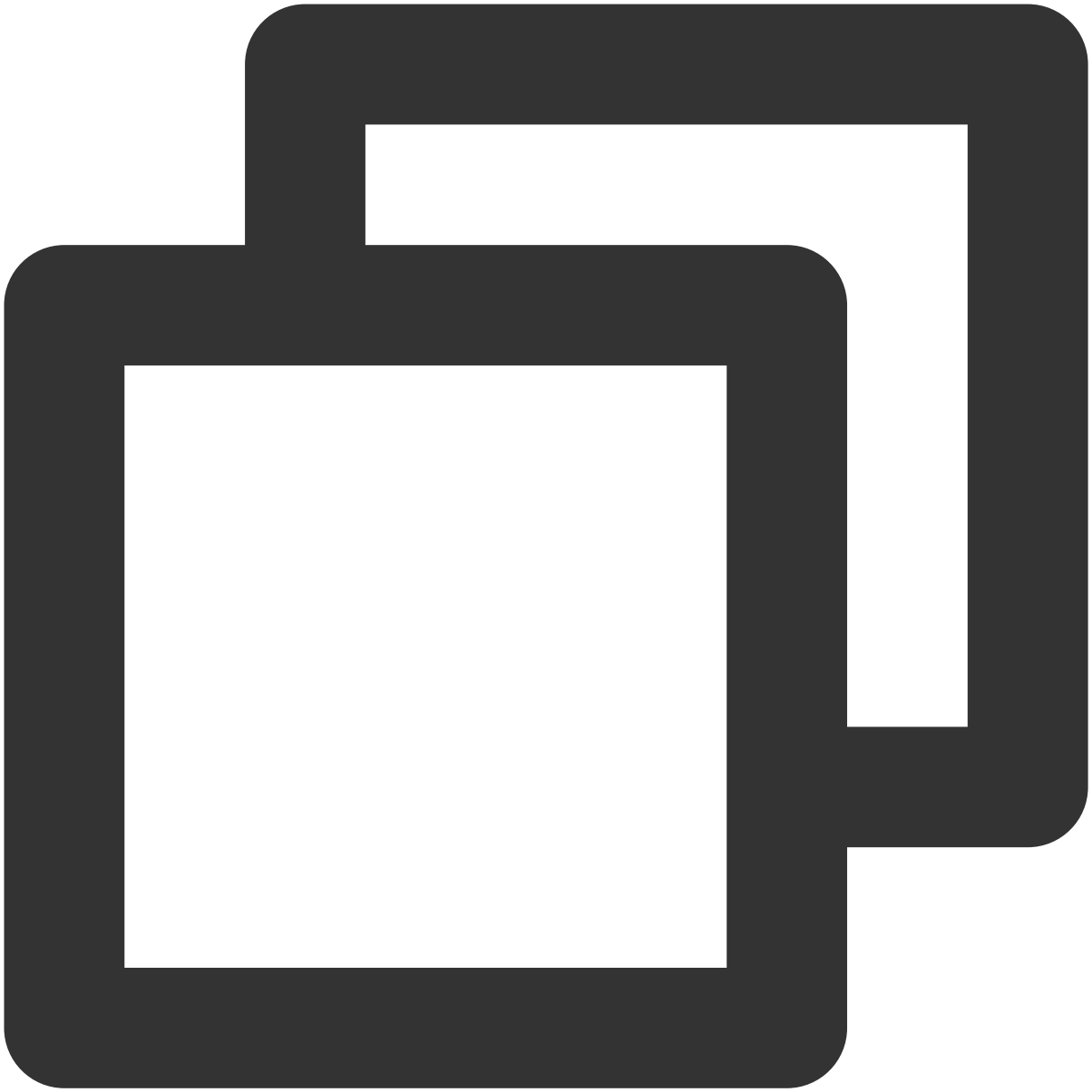
This API is used to batch moderate images.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Object key, i.e., the full path of a COS object. If the object is in a d
String cosPath1 = "dir1/exampleobject1.jpg";
String cosPath2 = "dir1/exampleobject2.jpg";
// URL of the image. Either `Object` or `Url` can be selected at a time.
String imageUrl = "https://myqcloud.com/%205image.jpg";
PostImagesAuditRequest request = new PostImagesAuditRequest(bucket);
PostImagesAudit.ImagesAuditInput image1 = new PostImagesAudit.ImagesAuditIn
image1.object = cosPath1;
// Set the original content, which can contain up to 512 bytes. This field
```

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```
        image1.dataId = "DataId1";
        // Frame capturing frequency, which takes effect for GIF images only. The d
        image1.interval = 2;
        // The maximum number of frames to be captured, which takes effect for GIF
        image1.maxFrames = 5;
        PostImagesAudit.ImagesAuditInput image2 = new PostImagesAudit.ImagesAuditIn
        image2.object = cosPath2;
        image2.dataId = "DataId2";
        image2.interval = 2;
        image2.maxFrames = 5;
        PostImagesAudit.ImagesAuditInput image3 = new PostImagesAudit.ImagesAuditIn
        image3.url = imageUrl;
        image3.dataId = "DataId3";
        image3.interval = 2;
        image3.maxFrames = 5;
        request.addImage(image1);
        request.addImage(image2);
        request.addImage(image3);
        // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
        request.setDetectType("Porn,Ads");

        ciService.postImagesAuditAsync(request, new CosXmlResultListener() {
            @Override
            public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
                // `result` is the result of the batch image moderation job.
                // For detailed fields, see the API documentation or SDK source cod
                PostImagesAuditResult result = (PostImagesAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

Querying Image Moderation Job Result

Feature description

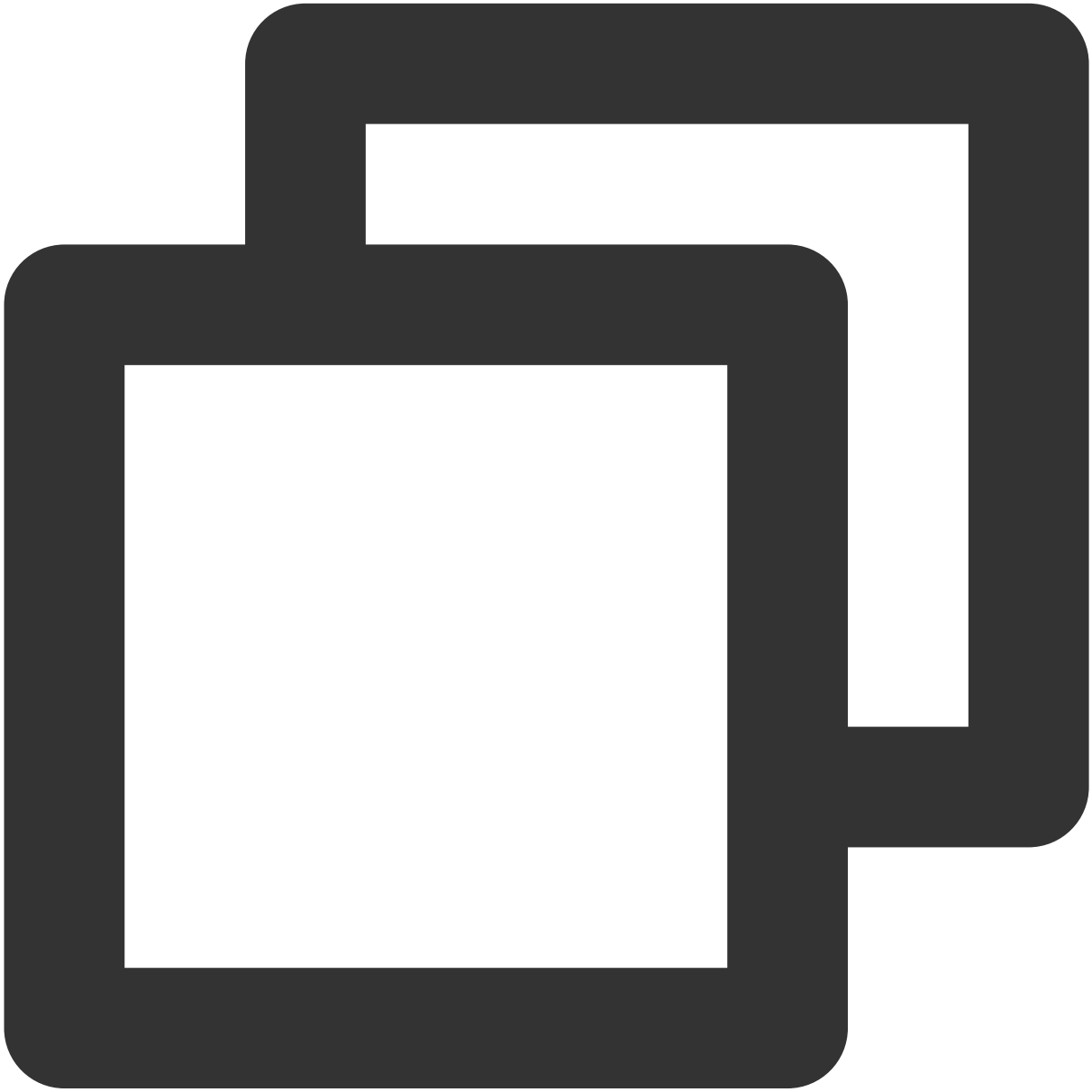
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This API is used to query the result of the specified image moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code



```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Moderation job ID
String jobId = "iab1ca9fc8a3ed11ea834c525400863904";
GetImageAuditRequest request = new GetImageAuditRequest(bucket, jobId);
```

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```
        ciService.getImageAuditAsync(request, new CosXmlResultListener() {
            @Override
            public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
                // `result` is the result of the image moderation job.
                // For detailed fields, see the API documentation or SDK source cod
                GetImageAuditResult result = (GetImageAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

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Video Moderation

Last updated：2024-03-04 10:32:42

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

API	Operation	Description
PostVideoAudit	Submitting a video moderation job	Submits a video moderation job.
GetVideoAudit	Querying the video moderation job result	Queries the result of the specified video moderation job.

SDK API References

For the parameters and method descriptions of all the APIs in the SDK, see SDK API Reference.

Submitting Video Moderation Job

Feature description

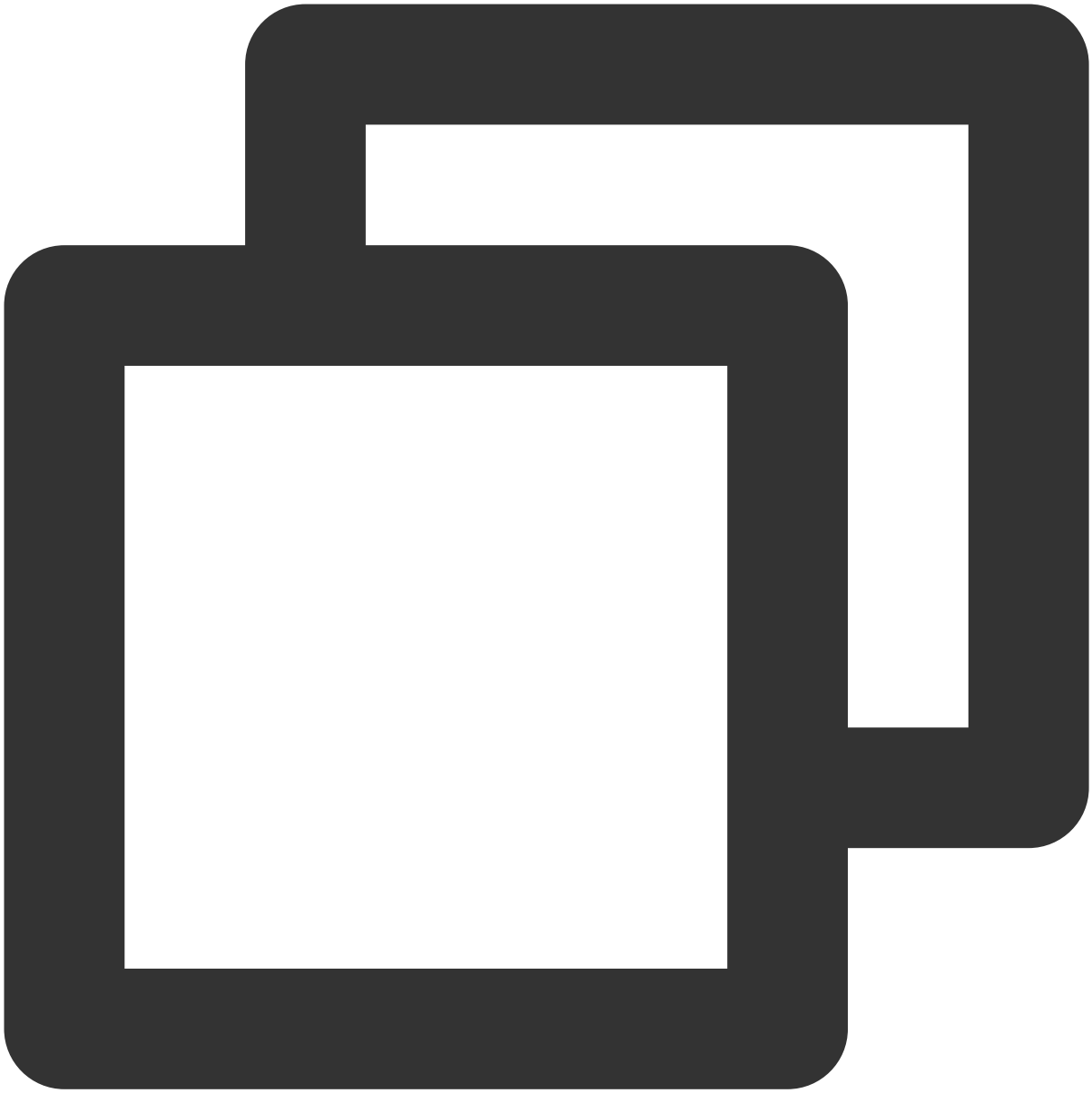
This API is used to submit a video moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Object key, i.e., the full path of a COS object. If the object is in a d
String cosPath = "dir1/exampleobject.mp4";
// URL of the video. Either `Object` or `Url` can be selected at a time.
String url = "https://myqcloud.com/%205video.mp4";
PostVideoAuditRequest request = new PostVideoAuditRequest(bucket);
request.setObject(cosPath);
request.setUrl(url);
// Set the original content, which can contain up to 512 bytes. This field
request.setDataId("DataId");
```

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```
        // Callback address, which must start with `http://` or `https://`.
        request.setCallback("https://github.com");
        // Structure of the callback content. Valid values: `Simple` (the callback
        request.setCallbackVersion("Detail");
        // The number of captured frames. Value range: (0, 10000].
        request.setCount(3);
        // Video frame capturing frequency. Value range: (0, 60] seconds. The value
        request.setTimeInterval(10);
        // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
        request.setDetectType("Porn,Ads");
        // Specify whether to moderate video sound. Valid values: `0` (moderates th
        request.setDetectContent(1);

        // `CIService` is a subclass of `CosXmlService` and has the same initializa
        ciService.postVideoAuditAsync(request, new CosXmlResultListener() {
            @Override
            public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
                // `result` is the result of the submitted video moderation job.
                // For detailed fields, see the API documentation or SDK source cod
                PostAuditResult result = (PostAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

Querying Video Moderation Job Result

Feature description

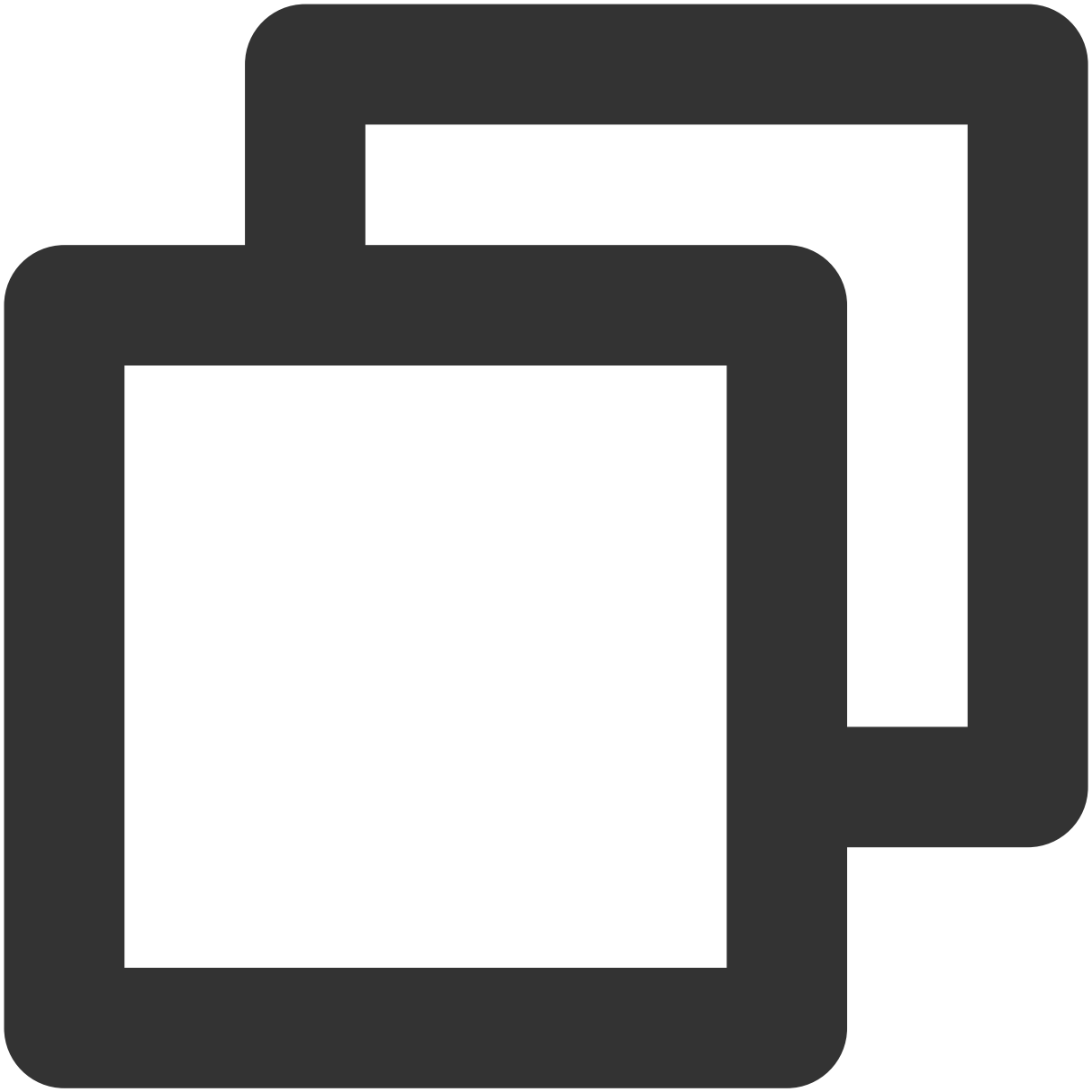
This API is used to query the result of the specified video moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Moderation job ID
String jobId = "iab1ca9fc8a3ed11ea834c525400863904";
GetVideoAuditRequest request = new GetVideoAuditRequest(bucket, jobId);
// `CIService` is a subclass of `CosXmlService` and has the same initializa
ciService.getVideoAuditAsync(request, new CosXmlResultListener() {
    @Override
    public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
        // `result` is the result of the video moderation job.
        // For detailed fields, see the API documentation or SDK source cod
```

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```
                GetVideoAuditResult result = (GetVideoAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

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Audio Moderation

Last updated：2024-03-04 10:32:42

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for audio moderation.

API	Operation	Description
PostAudioAudit	Submitting an audio moderation job	Submits an audio moderation job.
GetAudioAudit	Querying the audio moderation job result	Queries the result of the specified audio moderation job.

SDK API References

For the parameters and method descriptions of all the APIs in the SDK, see SDK API Reference.

Submitting an Audio Moderation Job

Feature description

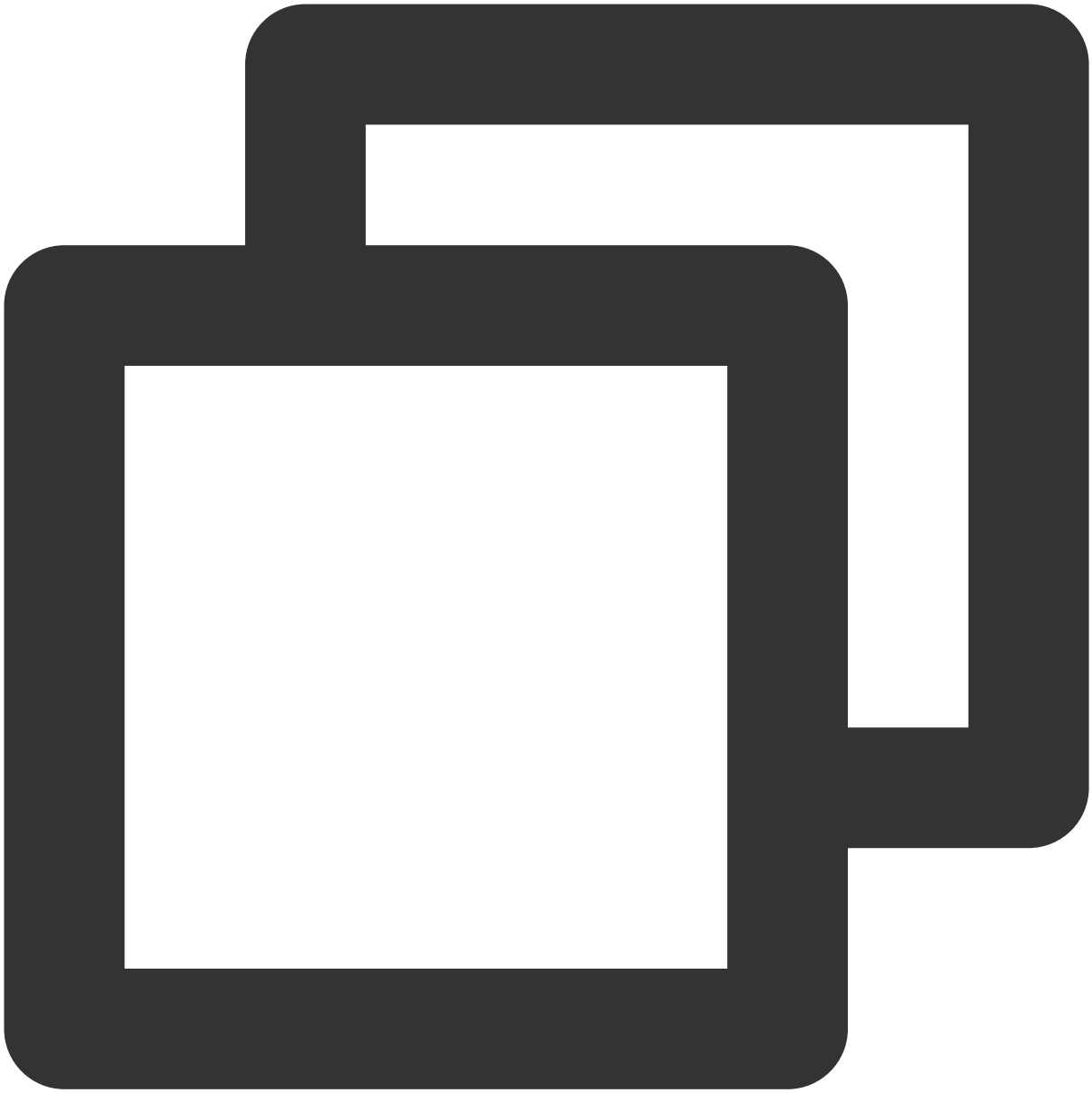
This API is used to submit an audio moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Object key, i.e., the full path of a COS object. If the object is in a d
String cosPath = "dir1/exampleobject.mp3";
// URL of the audio. Either `Object` or `Url` can be selected at a time.
String url = "https://myqcloud.com/%205Audio.mp3";
PostAudioAuditRequest request = new PostAudioAuditRequest(bucket);
request.setObject(cosPath);
request.setUrl(url);
// Set the original content, which can contain up to 512 bytes. This field
request.setDataId("DataId");
```

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```
        // Callback address, which must start with `http://` or `https://`.
        request.setCallback("https://github.com");
        // Structure of the callback content. Valid values: `Simple` (the callback
        request.setCallbackVersion("Detail");
        // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
        request.setDetectType("Porn,Ads");

        // `CIService` is a subclass of `CosXmlService` and has the same initializa
        ciService.postAudioAuditAsync(request, new CosXmlResultListener() {
            @Override
            public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
                // `result` is the result of the submitted audio moderation job.
                // For detailed fields, see the API documentation or SDK source cod
                PostAuditResult result = (PostAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

Querying Audio Moderation Job Result

Feature description

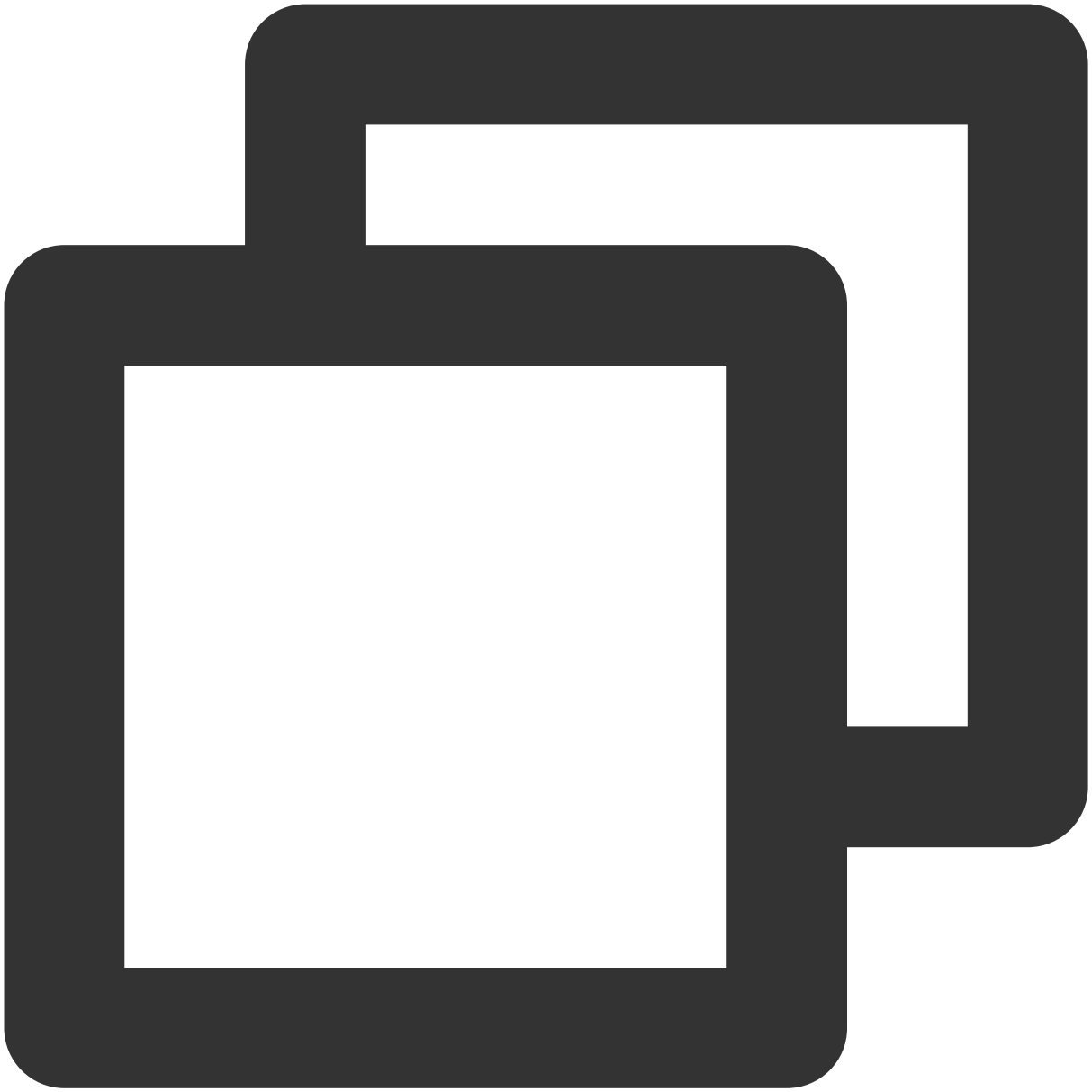
This API is used to query the result of an audio moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Moderation job ID
String jobId = "iab1ca9fc8a3ed11ea834c525400863904";
GetAudioAuditRequest request = new GetAudioAuditRequest(bucket, jobId);
// `CIService` is a subclass of `CosXmlService` and has the same initializa
ciService.getAudioAuditAsync(request, new CosXmlResultListener() {
    @Override
    public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
        // `result` is the result of the audio moderation job.
        // For detailed fields, see the API documentation or SDK source cod
```

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```
                GetAudioAuditResult result = (GetAudioAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

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Text Moderation

Last updated：2024-03-04 10:32:42

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for text moderation.

API	Operation	Description
PostTextAudit	Submitting a text moderation job	Submits a text moderation job.
GetTextAudit	Querying the text moderation job result	Queries the result of the specified text moderation job.

SDK API References

For the parameters and method descriptions of all the APIs in the SDK, see SDK API Reference.

Submitting a Text Moderation Job

Feature description

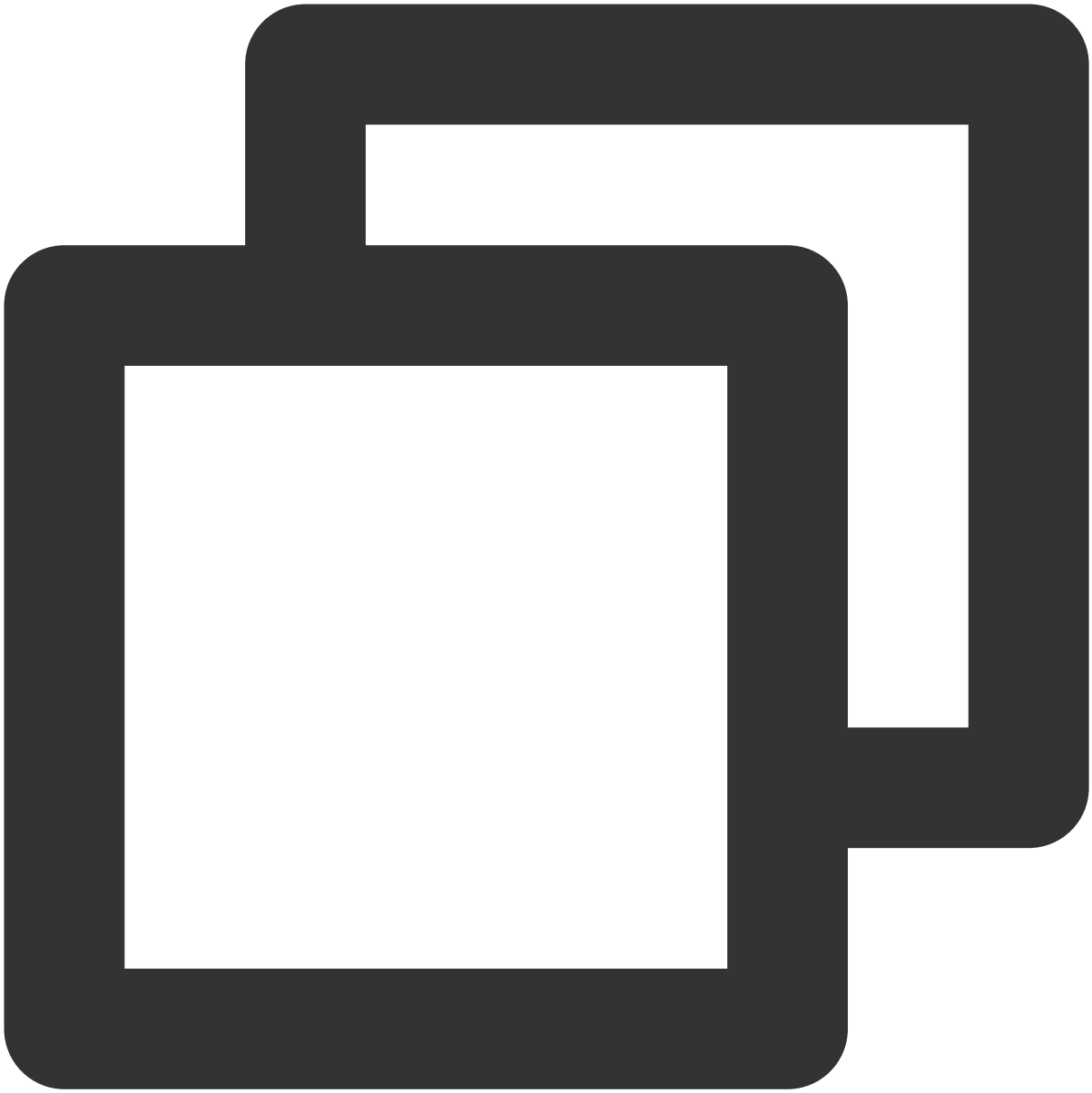
This API is used to submit a text moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Object key, i.e., the full path of a COS object. If the object is in a d
String cosPath = "dir1/exampleobject.txt";
// URL of the text. Either `Object` or `Url` can be selected at a time.
String url = "https://myqcloud.com/%205text.txt";
// When the input content is plain text, it needs to be Base64-encoded firs
String content = Base64.encodeToString("Test text".getBytes(Charset.forName
PostTextAuditRequest request = new PostTextAuditRequest(bucket);
request.setObject(cosPath);
request.setUrl(url);
```

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```
        request.setContent(content);
        // Set the original content, which can contain up to 512 bytes. This field
        request.setDataId("DataId");
        // Callback address, which must start with `http://` or `https://`.
        request.setCallback("https://github.com");
        // Structure of the callback content. Valid values: `Simple` (the callback
        request.setCallbackVersion("Detail");
        // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
        request.setDetectType("Porn,Ads");

        // `CIService` is a subclass of `CosXmlService` and has the same initializa
        ciService.postTextAuditAsync(request, new CosXmlResultListener() {
            @Override
            public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
                // `result` is the result of the submitted text moderation job.
                // For detailed fields, see the API documentation or SDK source cod
                TextAuditResult result = (TextAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

Querying Text Moderation Job Result

Feature description

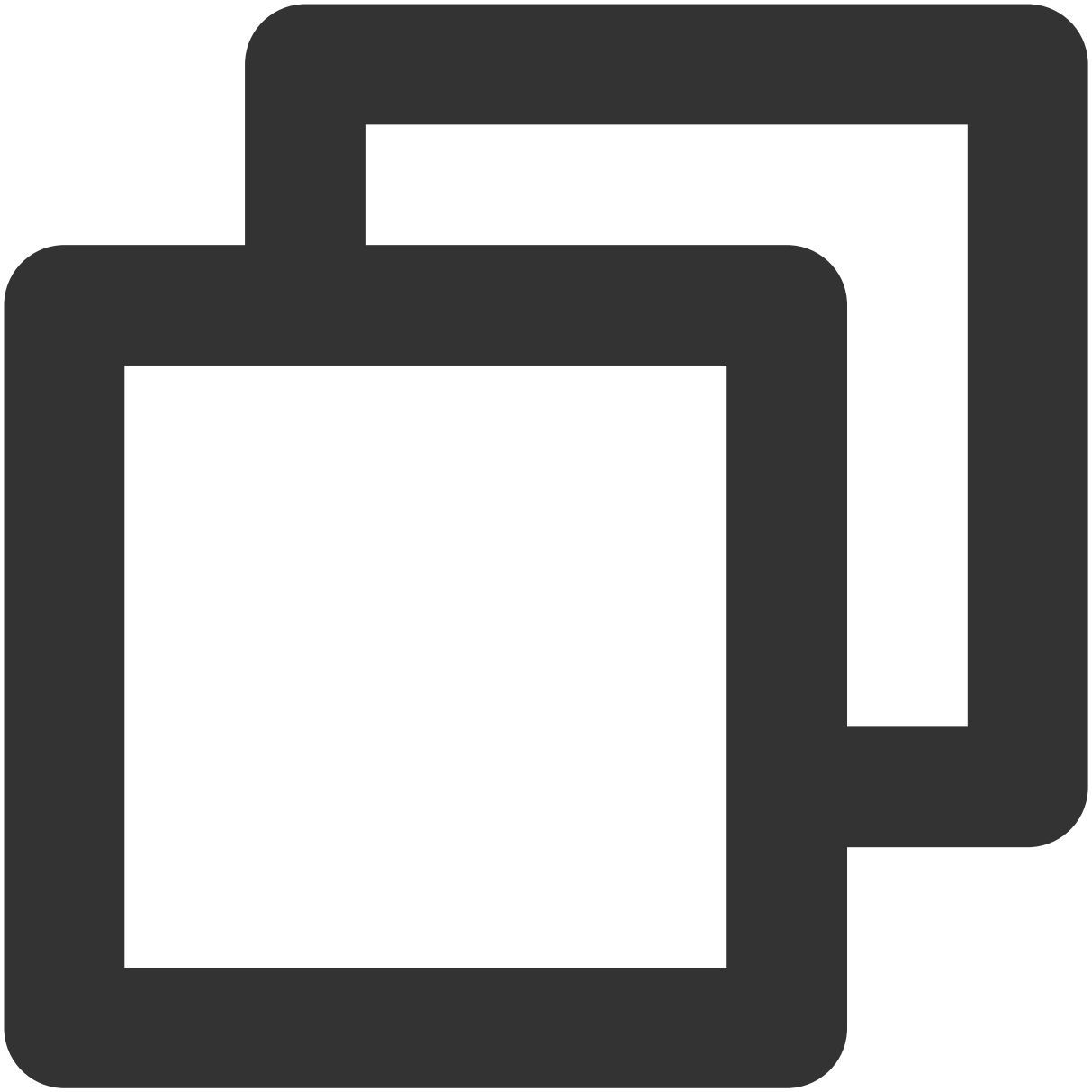
This API is used to query the result of the specified text moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Moderation job ID
String jobId = "iab1ca9fc8a3ed11ea834c525400863904";
GetTextAuditRequest request = new GetTextAuditRequest(bucket, jobId);
// `CIService` is a subclass of `CosXmlService` and has the same initializa
ciService.getTextAuditAsync(request, new CosXmlResultListener() {
    @Override
    public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
        // `result` is the result of the text moderation job.
        // For detailed fields, see the API documentation or SDK source cod
```

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```
                TextAuditResult result = (TextAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

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File Moderation

Last updated：2024-03-04 10:32:42

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for file moderation.

API	Operation	Description
PostDocumentAudit	Submitting a file moderation job	Submits a file moderation job.
GetDocumentAudit	Querying the file moderation job result	Queries the result of the specified file moderation job.

SDK API References

For the parameters and method descriptions of all the APIs in the SDK, see SDK API Reference.

Submitting a File Moderation Job

Feature description

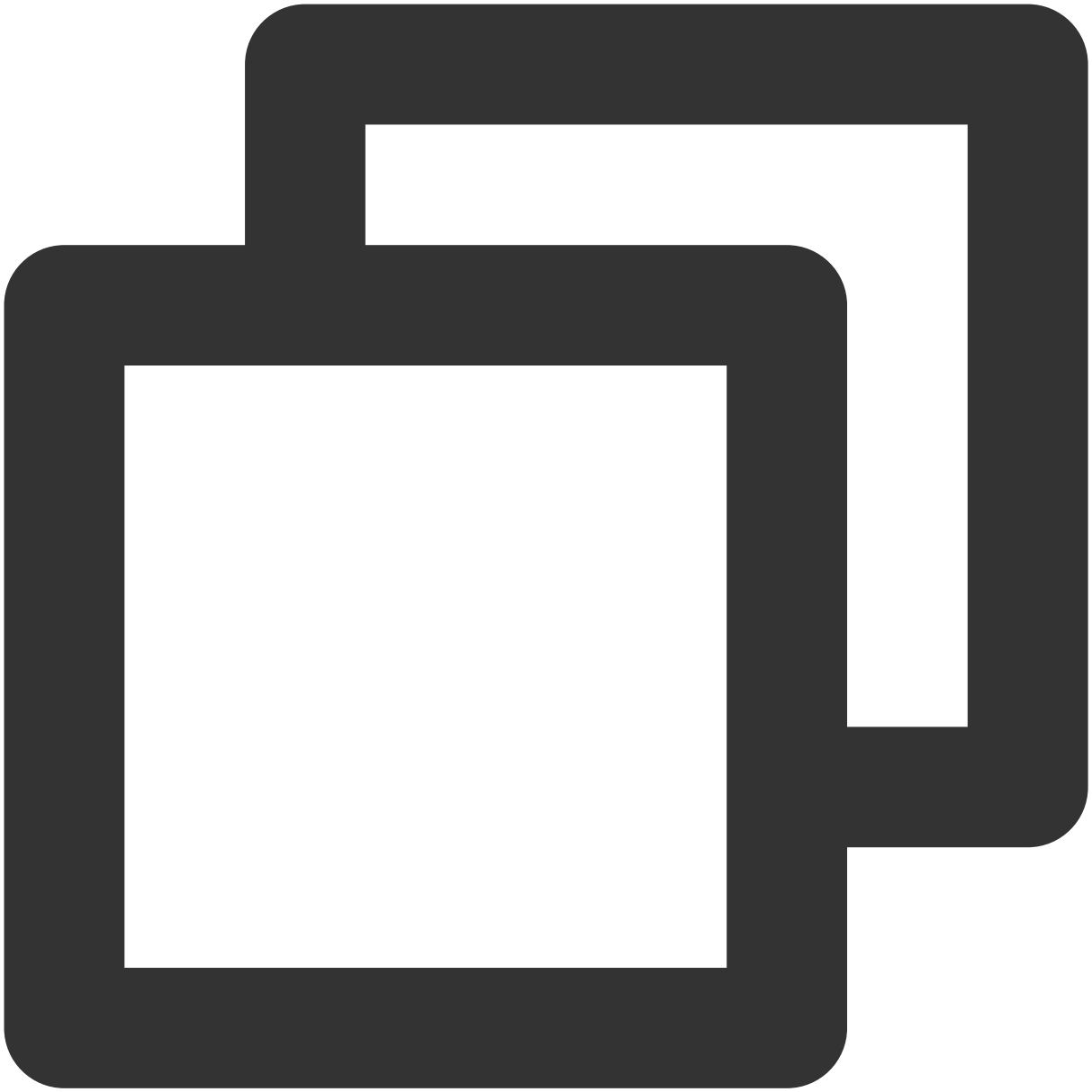
This API is used to submit a file moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Object key, i.e., the full path of a COS object. If the object is in a d
String cosPath = "dir1/exampleobject.pdf";
// URL of the file. Either `Object` or `Url` can be selected at a time.
String url = "https://myqcloud.com/%205Document.pdf";
PostDocumentAuditRequest request = new PostDocumentAuditRequest(bucket);
request.setObject(cosPath);
request.setUrl(url);
// Set the original content, which can contain up to 512 bytes. This field
request.setDataId("DataId");
```

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```
        // Callback address, which must start with `http://` or `https://`.
        request.setCallback("https://github.com");
        // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
        request.setDetectType("Porn,Ads");

        // `CIService` is a subclass of `CosXmlService` and has the same initializa
        ciService.postDocumentAuditAsync(request, new CosXmlResultListener() {
            @Override
            public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
                // `result` is the result of the submitted file moderation job.
                // For detailed fields, see the API documentation or SDK source cod
                PostAuditResult result = (PostAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

Querying File Moderation Job Result

Feature description

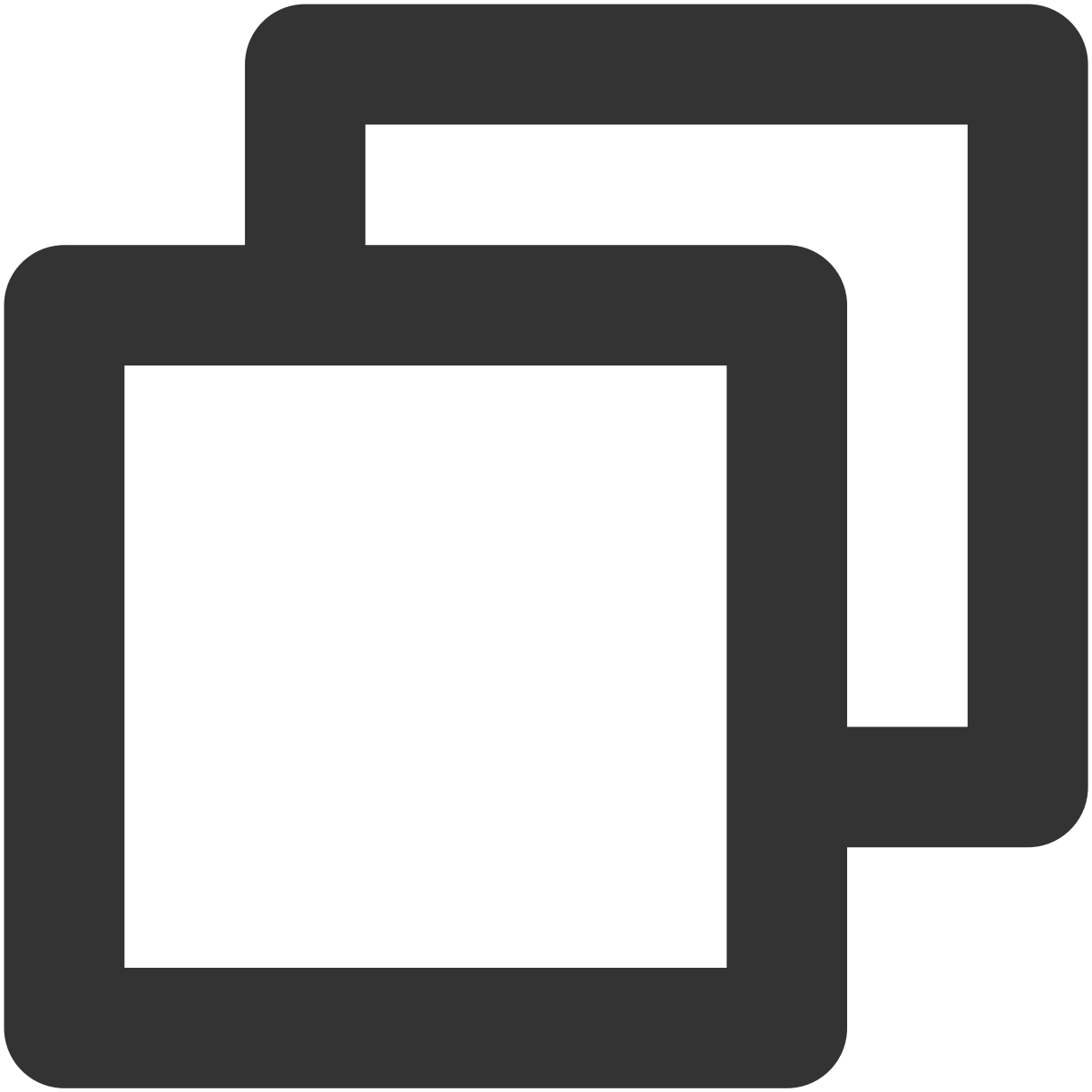
This API is used to query the result of the specified file moderation job.

Note:

The COS Android SDK version should not be earlier than v5.8.7.

Sample code

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```
// Bucket name in the format of BucketName-APPID
String bucket = "examplebucket-1250000000";
// Moderation job ID
String jobId = "iab1ca9fc8a3ed11ea834c525400863904";
GetDocumentAuditRequest request = new GetDocumentAuditRequest(bucket, jobId
// `CIService` is a subclass of `CosXmlService` and has the same initializa
ciService.getDocumentAuditAsync(request, new CosXmlResultListener() {
    @Override
    public void onSuccess(CosXmlRequest request, CosXmlResult cosResult) {
        // `result` is the result of the file moderation job.
        // For detailed fields, see the API documentation or SDK source cod
```

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```
                GetDocumentAuditResult result = (GetDocumentAuditResult) cosResult;
            }

            @Override
            public void onFail(CosXmlRequest request, CosXmlClientException clientE
                if (clientException != null) {
                    clientException.printStackTrace();
                } else {
                    serviceException.printStackTrace();
                }
            }
        });
```

Note:

For more complete samples, visit GitHub.

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C SDK
Getting Started

Last updated：2024-02-29 16:06:23

Download and Installation

Relevant resources

Download COS XML C SDK source code: XML C SDK.
Download demo: XML C SDK Demo.
For the SDK changelog, see Changelog.
For SDK FAQs, see C SDK FAQs.

Note:

If you encounter errors such as non-existent functions or methods when using the SDK, you can update the SDK to the latest version and try again.

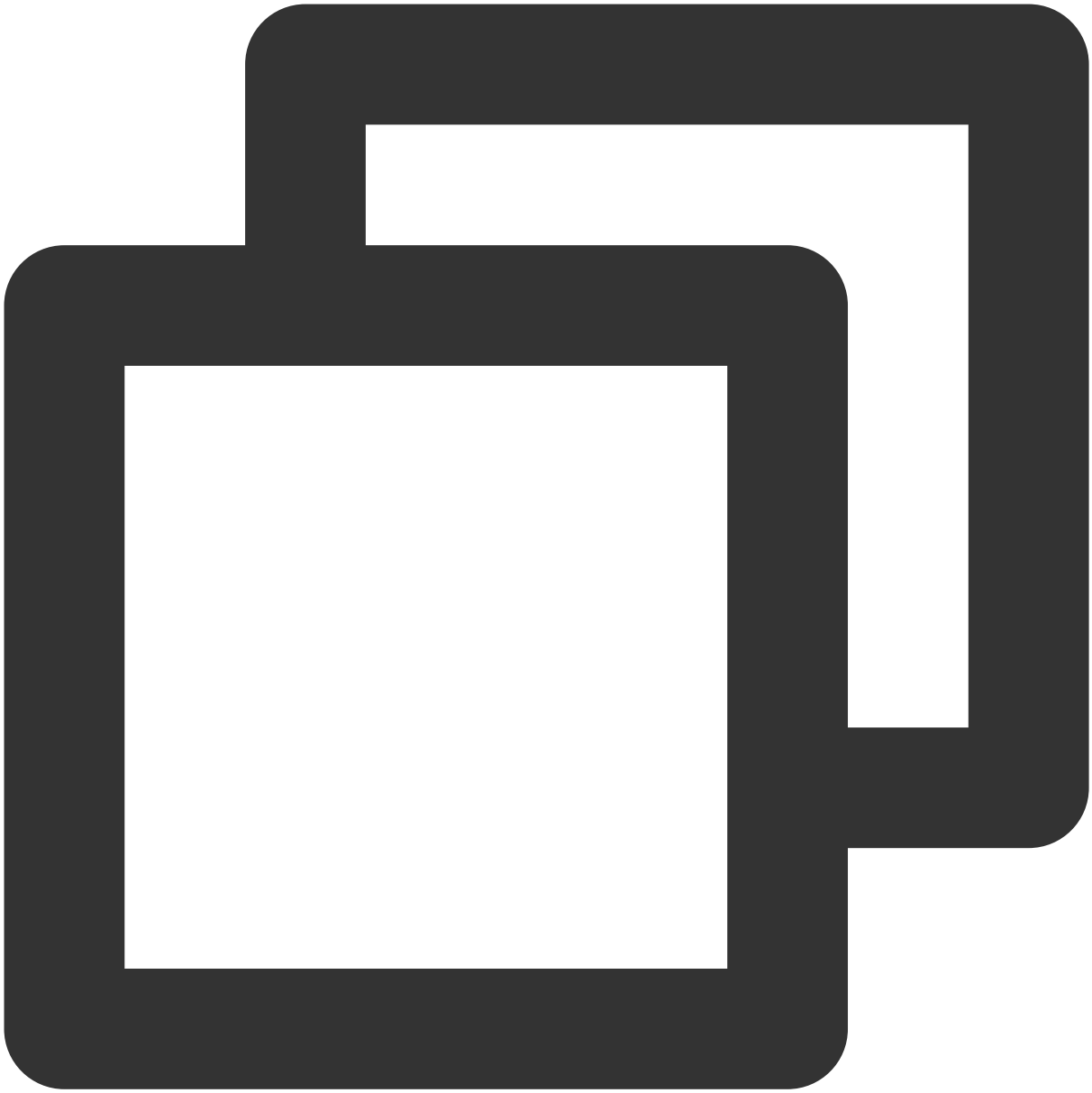
Environmental dependencies

Dependent library: libcurl apr apr-util minixml.

Installing SDK

1. Download the CMake tool (v2.6.0 and higher recommended) here and install it as shown below:

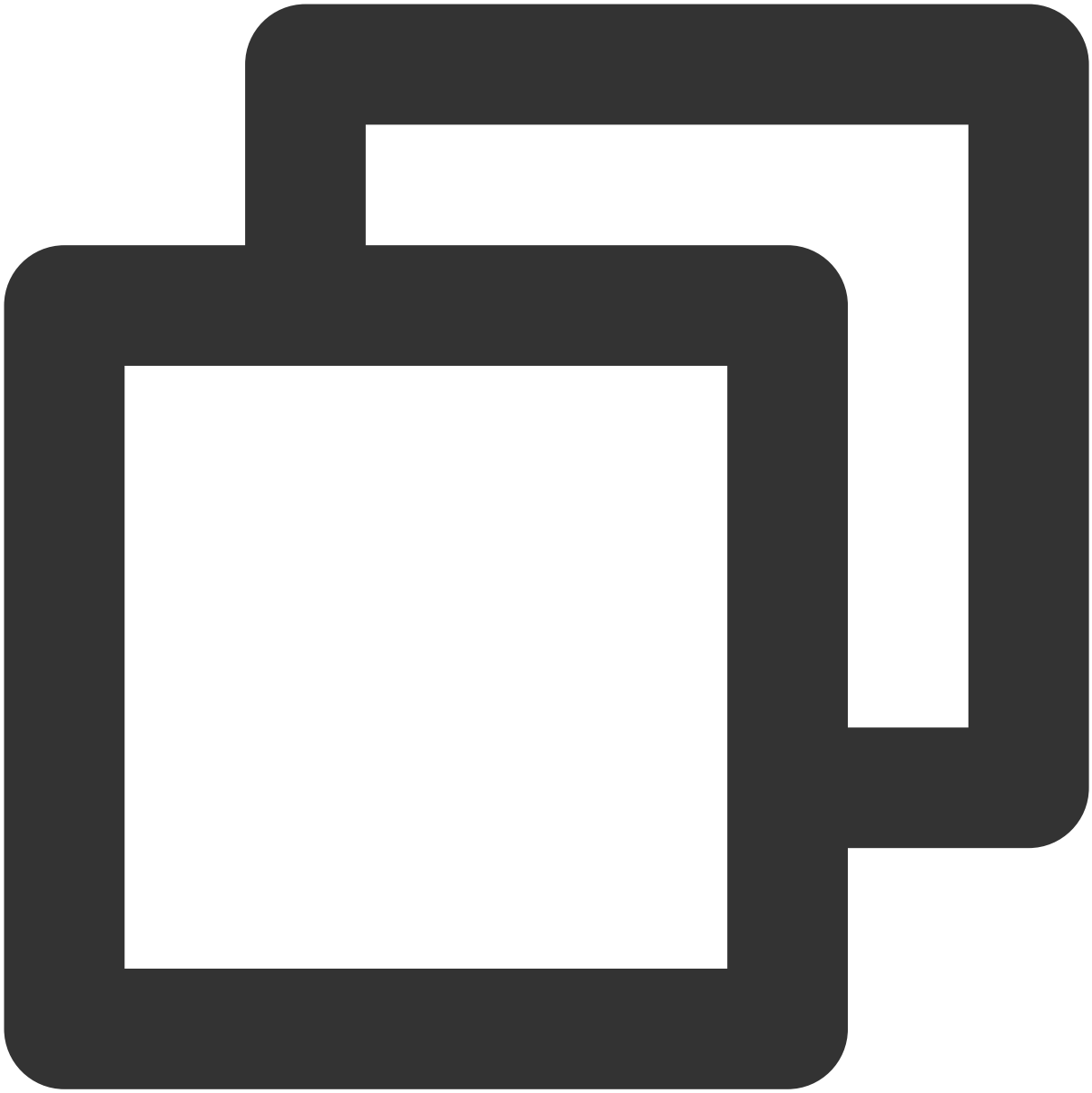
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```
./configure
make
make install
```

2. Download libcurl (v7.32.0 or higher recommended) here and install it as shown below:

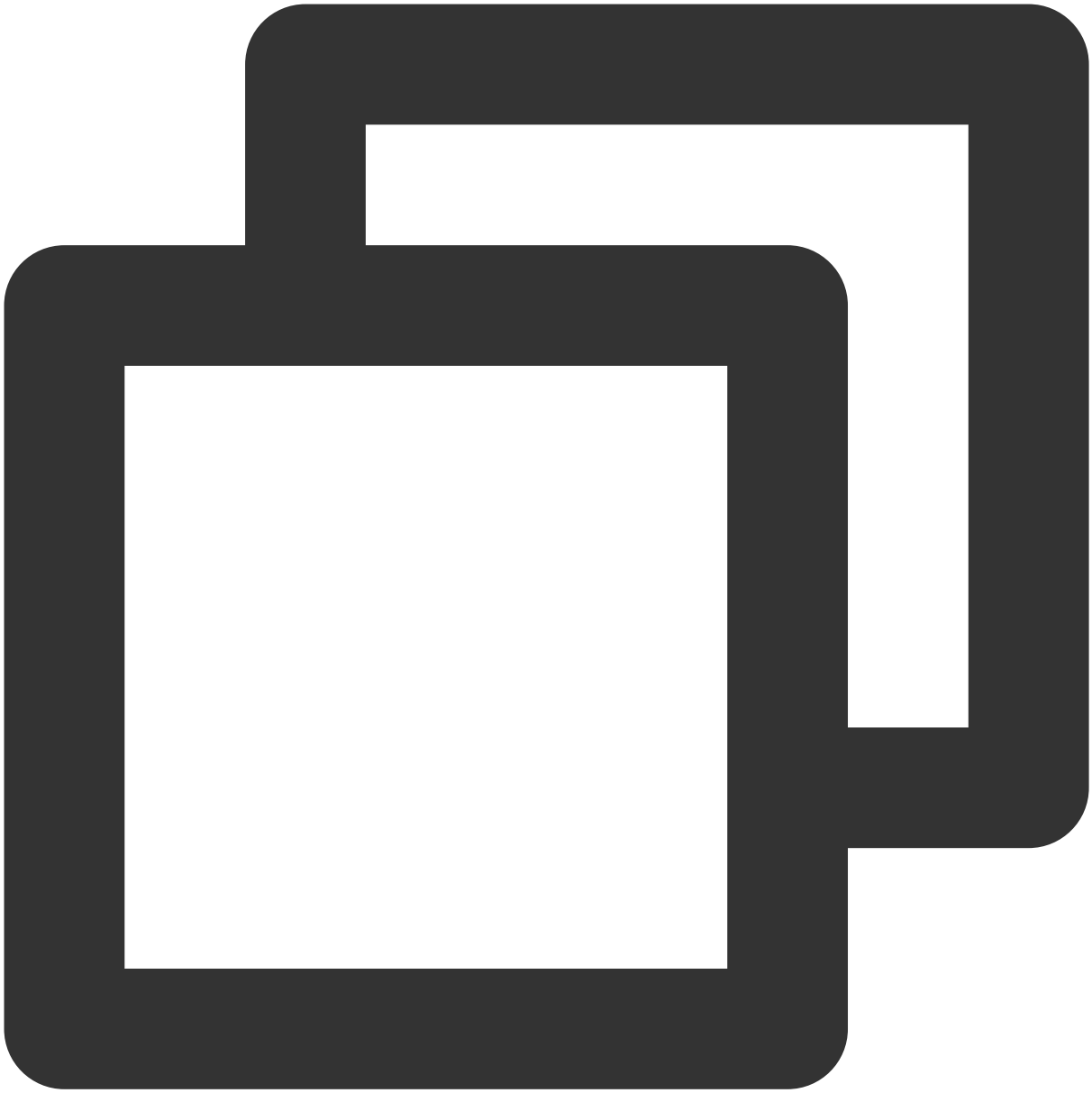
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```
./configure
make
make install
```

3. Download apr (v1.5.2 or higher recommended) here and install it as shown below:

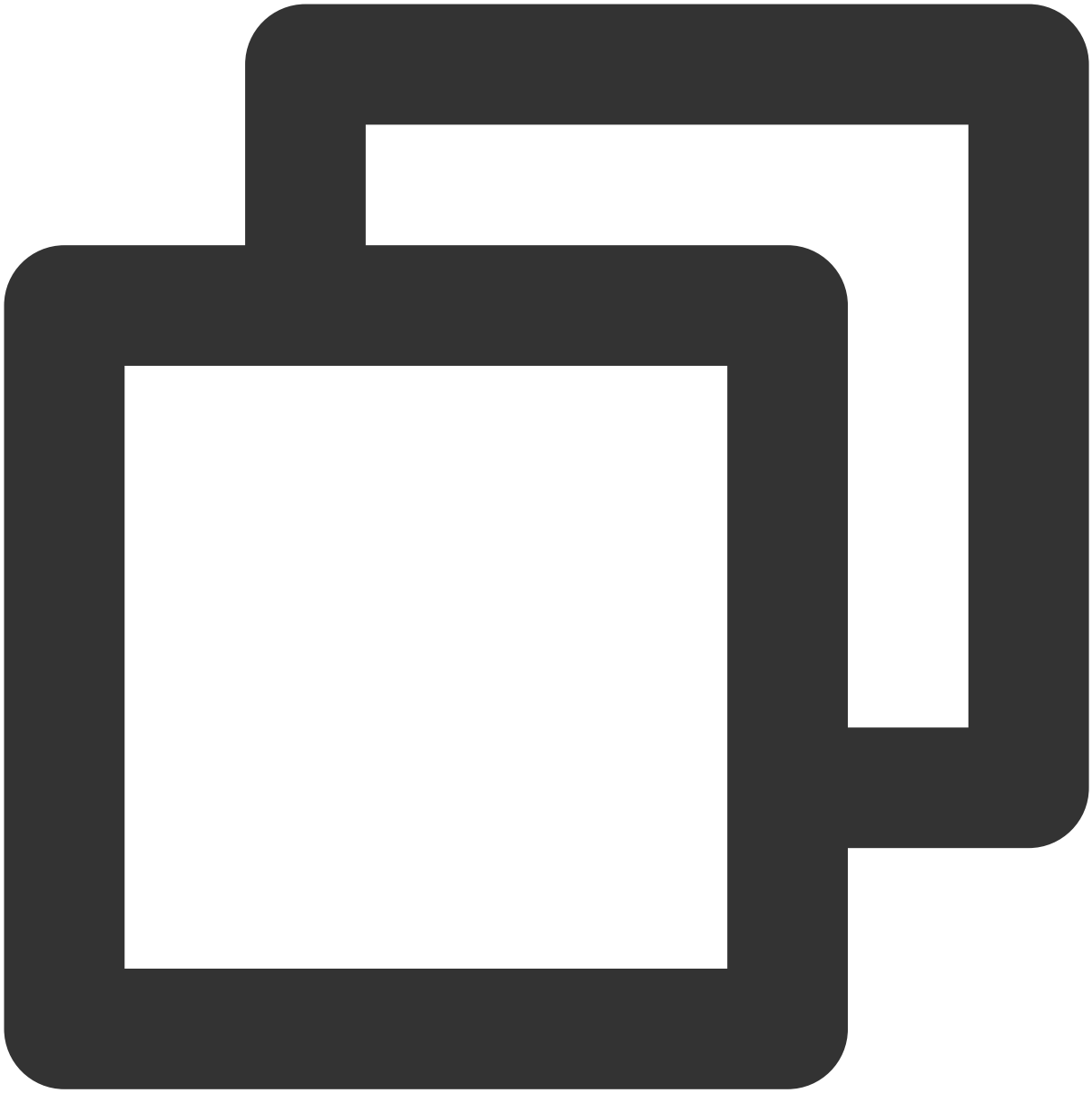
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```
./configure
make
make install
```

4. Download apr-util (v1.5.4 or higher recommended) here and install it as shown below. You need to specify the `--with-apr` option during installation.

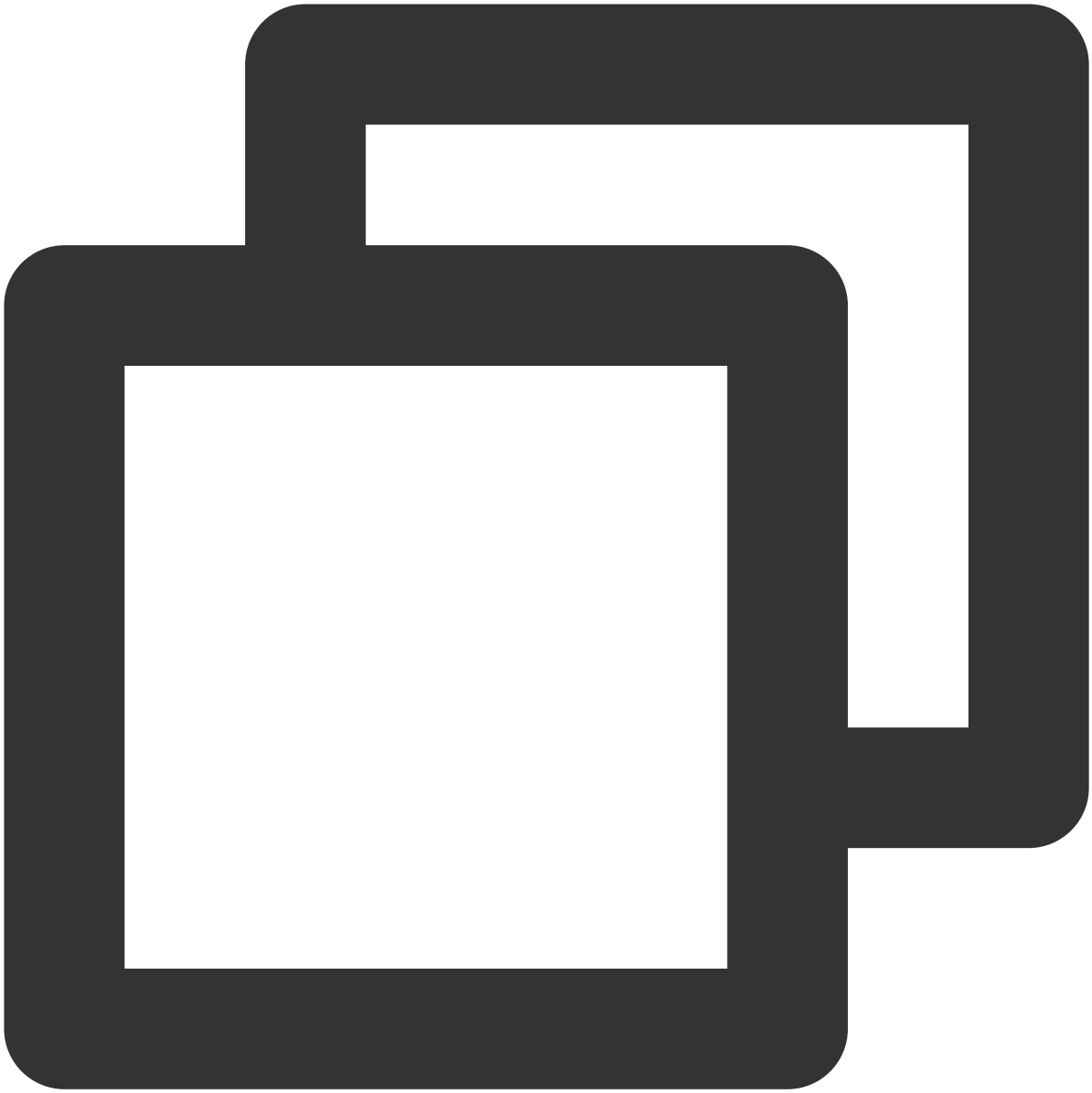
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```
./configure --with-apr=/your/apr/install/path
make
make install
```

5. Download minixml (v2.8 - 2.12 recommended) here and install it as shown below:

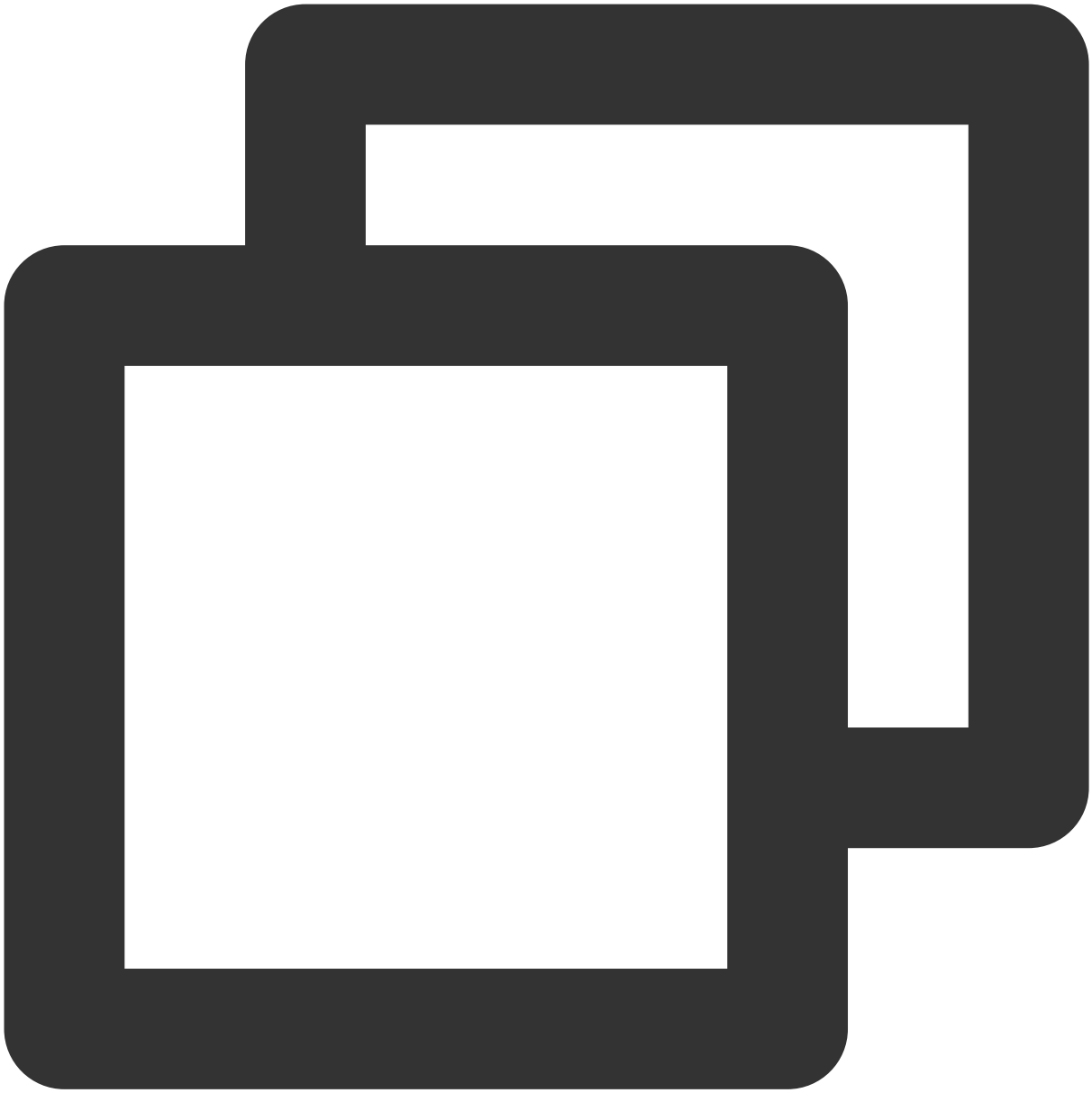
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```
./configure
make
make install
```

6. Compile the COS C SDK. Download the XML C SDK source code and run the following compiling commands:

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```
cmake .
make
make install
```

Getting Started

Below is the general process of using COS XML C SDK.

1. Initialize the SDK.

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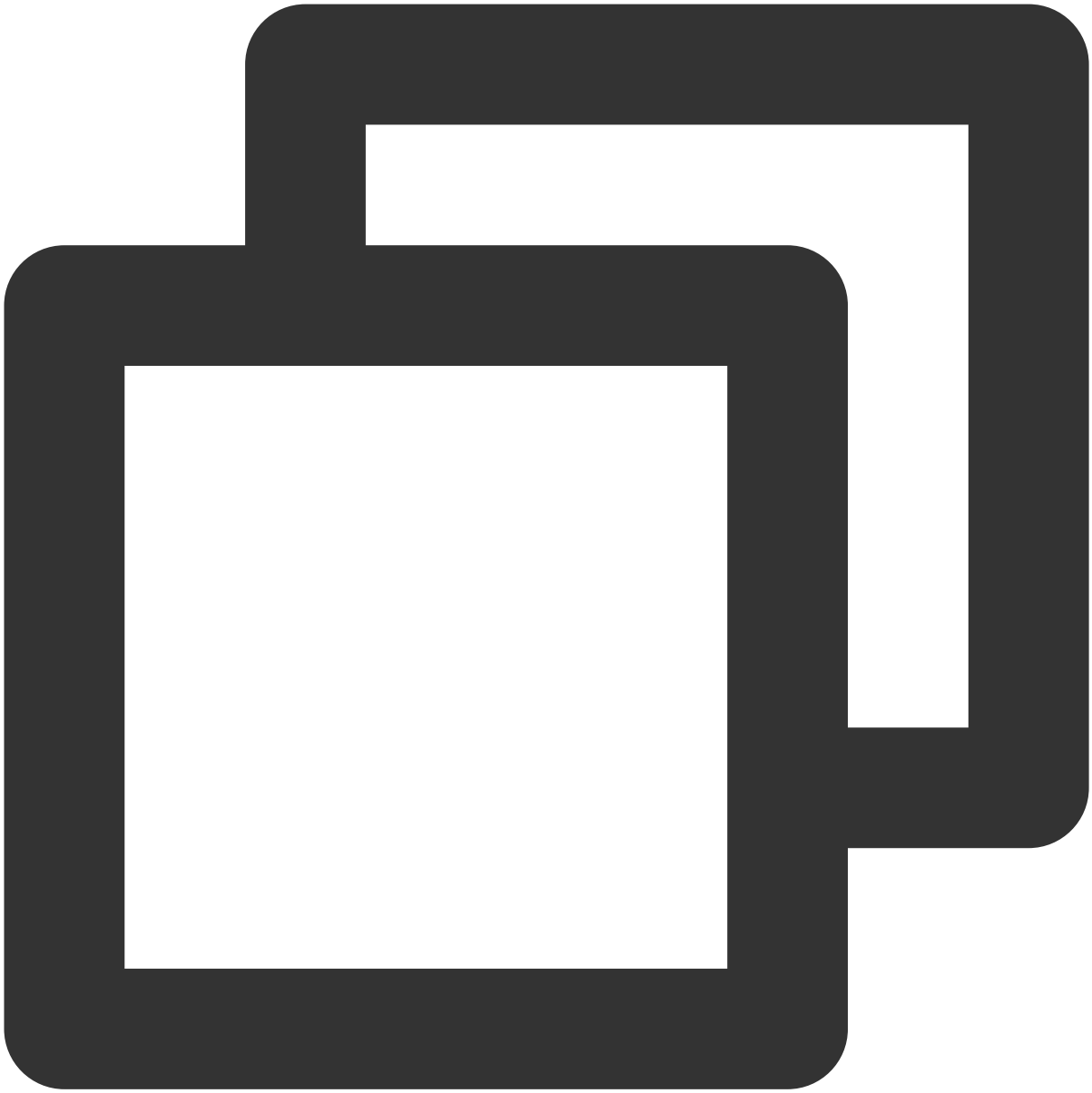
2. Set the request option parameters. For the definitions of parameters such as APPID, SecretId, SecretKey, and Bucket, see COS Glossary.
APPID is one of the account IDs assigned by the system after you register for a Tencent Cloud account.
`access_key_id` and `access_key_secret` are account API keys.
`endpoint` is the COS access domain name. For more information, see Regions and Access Endpoints. For example, the endpoint of the Guangzhou region is `cos.ap-guangzhou.myqcloud.com`, and the endpoint of a global acceleration domain name is `cos.accelerate.myqcloud.com`. You can add "http" or "https" to the endpoints. The SDK accesses COS via HTTP by default. For example, the endpoint for accessing the Guangzhou region via HTTPS is `https://cos.ap-guangzhou.myqcloud.com`.
`is_cname` specifies whether an endpoint is a custom domain name. If `is_cname` is set to 1, the endpoint is a custom domain name.
3. Set the parameters required for APIs.
4. Call the SDK API to initiate a request and get the response.

Initialization

Note:

We recommend you use a temporary key as instructed in Generating and Using Temporary Keys to call the SDK for security purposes. When you apply for a temporary key, follow the Notes on Principle of Least Privilege to avoid leaking resources besides your buckets and objects.
If you must use a permanent key, we recommend you follow the Notes on Principle of Least Privilege to limit the scope of permission on the permanent key.

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```
int main(int argc, char *argv[])
{
    /* Call the cos_http_io_initialize method at the program entry to perform certa
    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
        exit(1);
    }

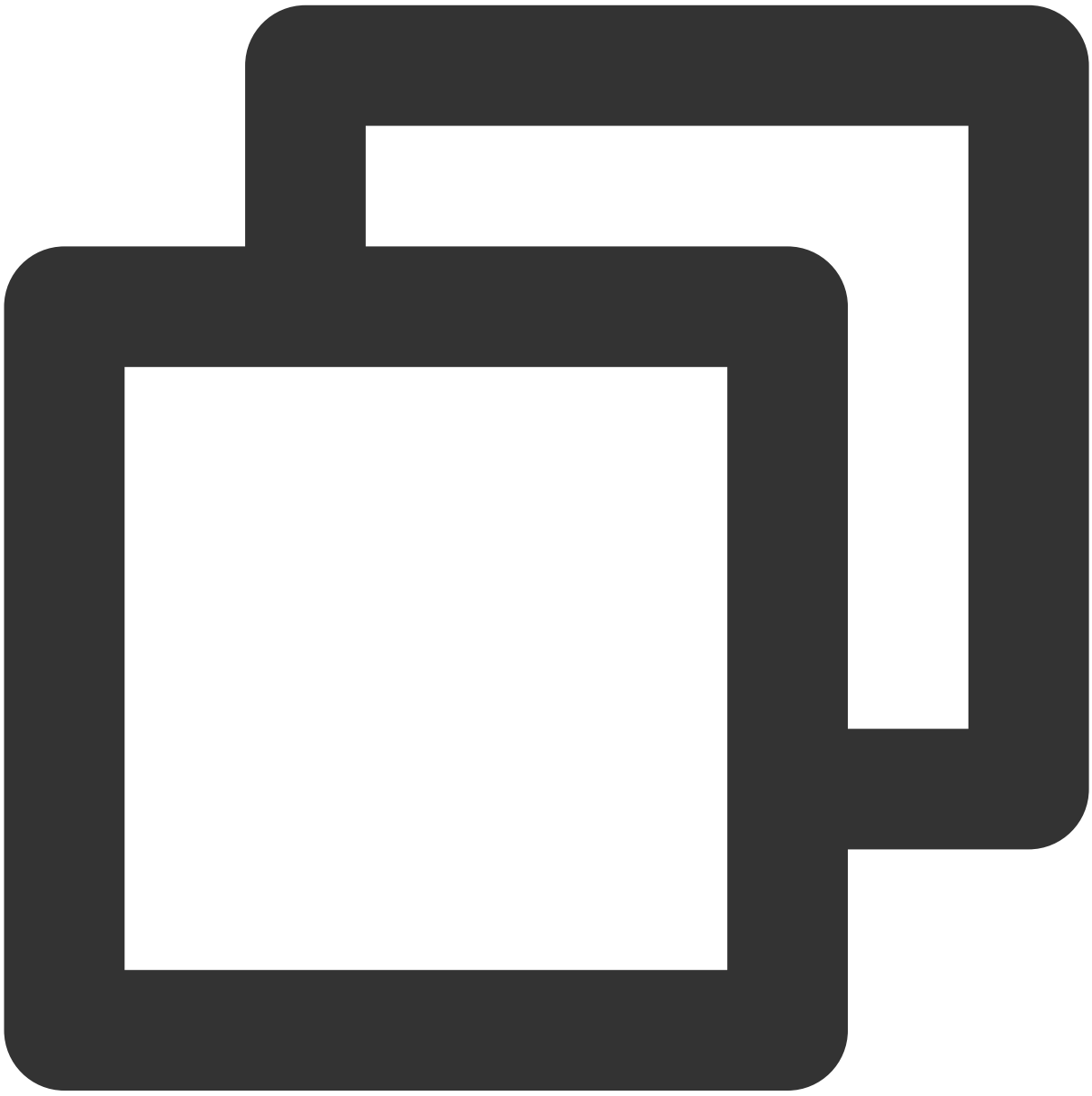
    /* Call a COS SDK API to upload/download files */
    /* ... User logic code, omitted here */

    /* Call the cos_http_io_deinitialize method to release global resources allocat
```

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```
    cos_http_io_deinitialize();
    return 0;
}
```

Initializing request options



```
/* Equivalent to `apr_pool_t`, the memory pool for memory management. The implement
cos_pool_t *pool;
cos_request_options_t *options;
```

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```
/* Create a new memory pool. The second parameter is NULL, indicating that it is no
cos_pool_create(&pool, NULL);

/* Create and initialize `options`. This parameter contains global configuration in
 * The memory of `options` is allocated by the pool, and will be released upon pool
 */
options = cos_request_options_create(pool);
options->config = cos_config_create(options->pool);

/* cos_str_set is a cos_string_t type initialized with a char* string */
cos_str_set(&options->config->endpoint, "<user's endpoint>");              // Enter
cos_str_set(&options->config->access_key_id, "<user's SecretId>");         // This
cos_str_set(&options->config->access_key_secret, "<user's SecretKey>");    // This
cos_str_set(&options->config->appid, "<user's AppId>");                    // This

/* You can use a temporary key by setting `sts_token`. When you use a temporary key
//cos_str_set(&options->config->sts_token, "MyTokenString");
/* Whether CNAME is used */
options->config->is_cname = 0;
/* Use a custom domain name to access COS */
/*
options->config->is_cname = 1;
cos_str_set(&options->config->endpoint, "<Custom domain name>");
*/

/* Used to set network-related parameters, such as the timeout duration */
options->ctl = cos_http_controller_create(options->pool, 0);

/* Used to set whether to add Content-MD5 header automatically to the upload reques
cos_set_content_md5_enable(options->ctl, COS_FALSE);

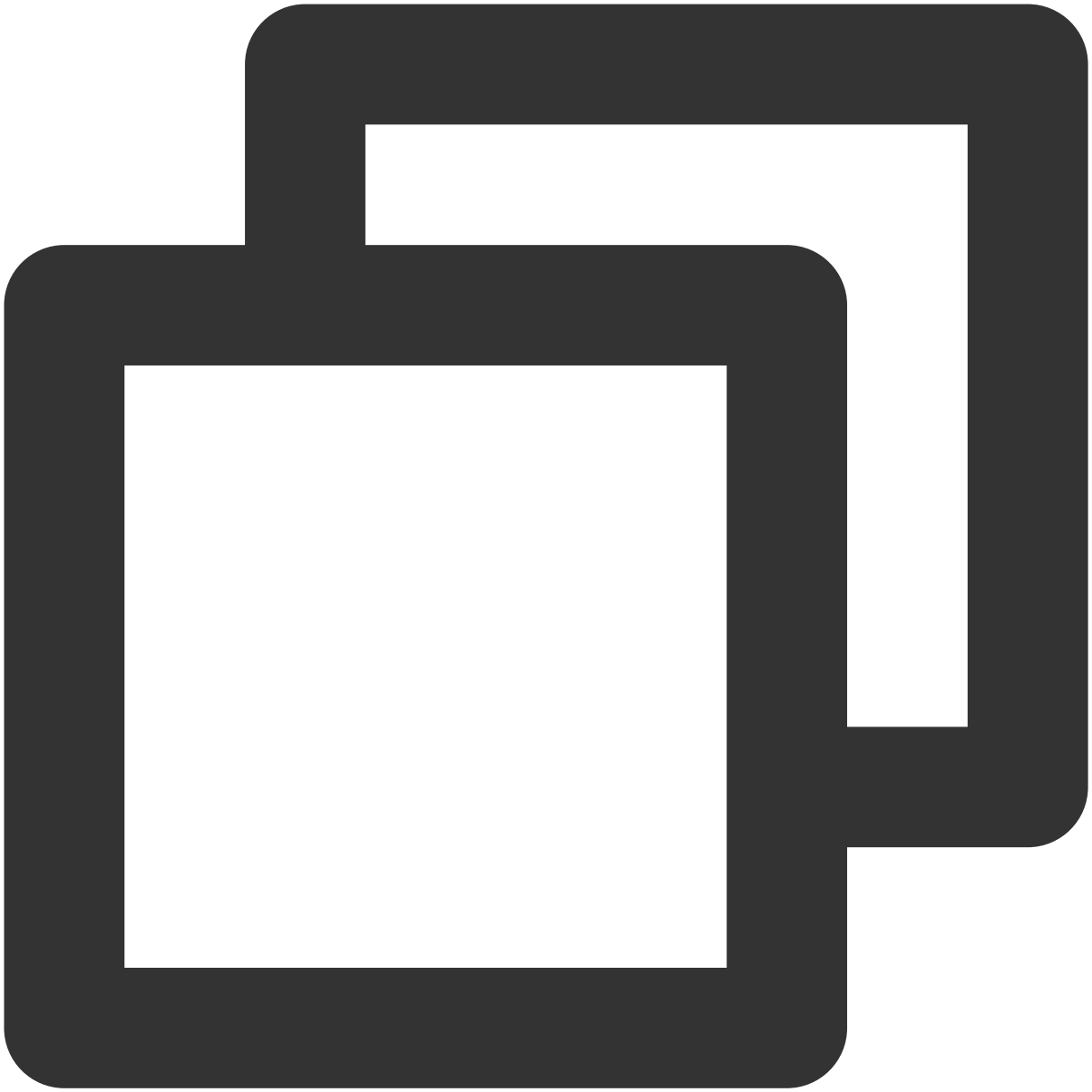
/* Used to set the request routing address and port. Normally, you do not need to s
//cos_set_request_route(options->ctl, "192.168.12.34", 80);
```

Note:

For more information about how to generate and use a temporary key, see Generating and Using Temporary Keys.

Creating a bucket

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```
cos_pool_t *p = NULL;
int is_cname = 0;
cos_status_t *s = NULL;
cos_request_options_t *options = NULL;
cos_acl_e cos_acl = COS_ACL_PRIVATE;
cos_string_t bucket;
cos_table_t *resp_headers = NULL;

/* Create a new memory pool. The second parameter is NULL, indicating that it is no
cos_pool_create(&p, NULL);
```

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```
/* Create and initialize `options`. This parameter contains global configuration in
 * The memory of `options` is allocated by the pool, and will be released upon pool
 */
options = cos_request_options_create(p);
options->config = cos_config_create(options->pool);
init_test_config(options->config, is_cname);

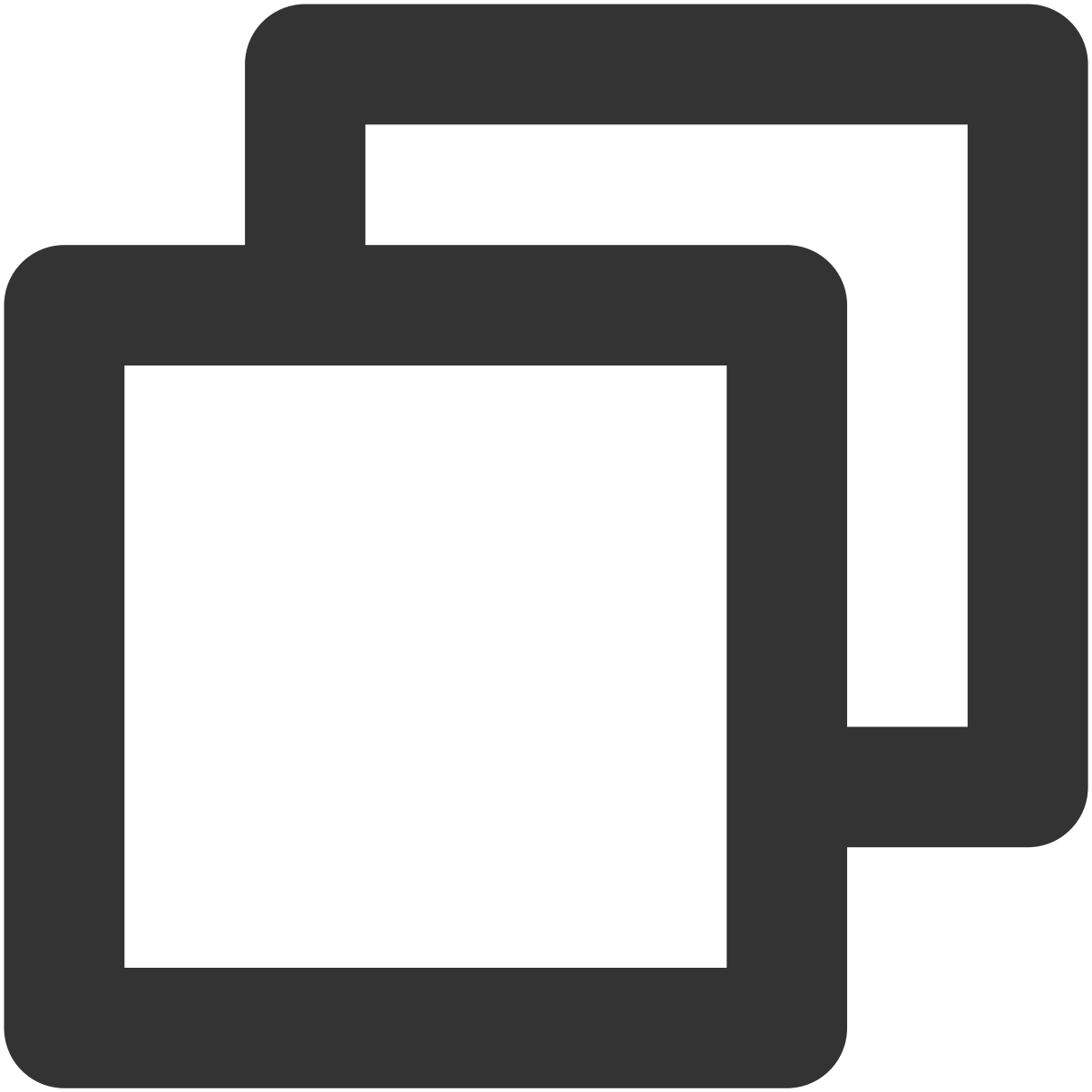
/* Set configuration information such as appid, endpoint, access_key_id, acces_key_
cos_str_set(&options->config->endpoint, TEST_COS_ENDPOINT);
cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
cos_str_set(&options->config->appid, TEST_APPID);
options->config->is_cname = is_cname;
options->ctl = cos_http_controller_create(options->pool, 0);
/* Enter the bucket name in the format of BucketName-APPID. */
cos_str_set(&bucket, TEST_BUCKET_NAME);

/* Call an API to create a bucket */
s = cos_create_bucket(options, &bucket, cos_acl, &resp_headers);
if (cos_status_is_ok(s)) {
        printf("create bucket succeeded\\n");
} else {
        printf("create bucket failed\\n");
}

//destroy memory pool
cos_pool_destroy(p);
```

Querying objects

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```
cos_pool_t *p = NULL;
int is_cname = 0;
cos_status_t *s = NULL;
cos_request_options_t *options = NULL;
cos_list_object_params_t *list_params = NULL;
cos_string_t bucket;
cos_table_t *resp_headers = NULL;

/* Re-create a new memory pool. The second parameter is NULL, which indicates it is
cos_pool_create(&p, NULL);
```

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```
/* Create and initialize `options`. This parameter contains global configuration in
 * The memory of `options` is allocated by the pool, and will be released upon pool
 */
options = cos_request_options_create(p);
options->config = cos_config_create(options->pool);
init_test_config(options->config, is_cname);

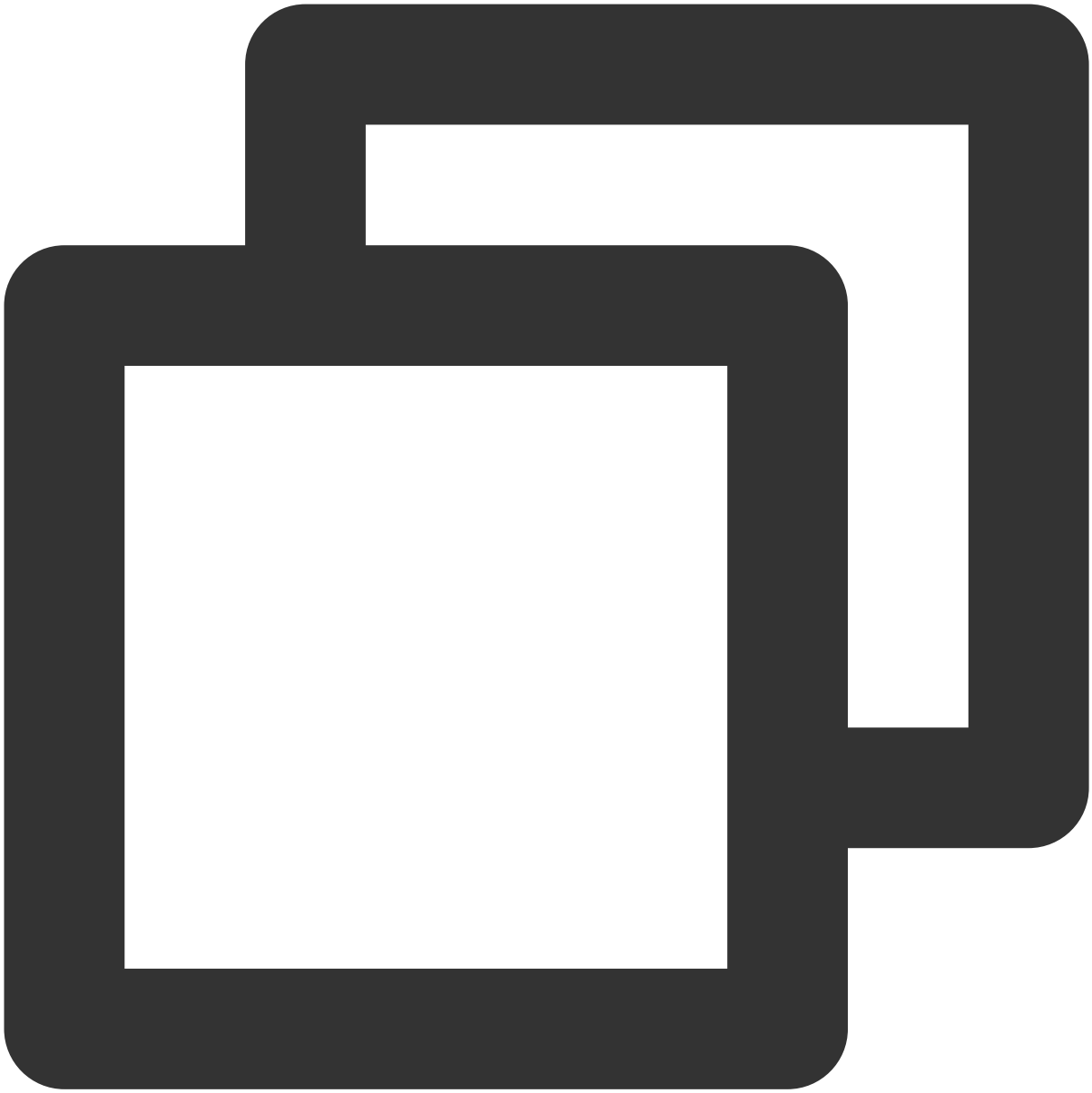
/* Set configuration information such as appid, endpoint, access_key_id, acces_key_
cos_str_set(&options->config->endpoint, TEST_COS_ENDPOINT);
cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
cos_str_set(&options->config->appid, TEST_APPID);
options->config->is_cname = is_cname;
options->ctl = cos_http_controller_create(options->pool, 0);
/* The bucket name entered here must be in the format of BucketName-APPID. */
cos_str_set(&bucket, TEST_BUCKET_NAME);

/* Call an API to query object list */
list_params = cos_create_list_object_params(p);
cos_str_set(&list_params->encoding_type, "url");
s = cos_list_object(options, &bucket, list_params, &resp_headers);
if (cos_status_is_ok(s)) {
        printf("list object succeeded\\n");
} else {
        printf("list object failed\\n");
}

//destroy memory pool
cos_pool_destroy(p);
```

Uploading an object

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```
cos_pool_t *p = NULL;
int is_cname = 0;
cos_status_t *s = NULL;
cos_request_options_t *options = NULL;
cos_string_t bucket;
cos_string_t object;
cos_string_t file;
cos_table_t *resp_headers = NULL;

/* Re-create a new memory pool. The second parameter is NULL, which indicates it is
cos_pool_create(&p, NULL);
```

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```
/* Create and initialize `options`. This parameter contains global configuration in
 * The memory of `options` is allocated by the pool, and will be released upon pool
 */
options = cos_request_options_create(p);
options->config = cos_config_create(options->pool);
init_test_config(options->config, is_cname);

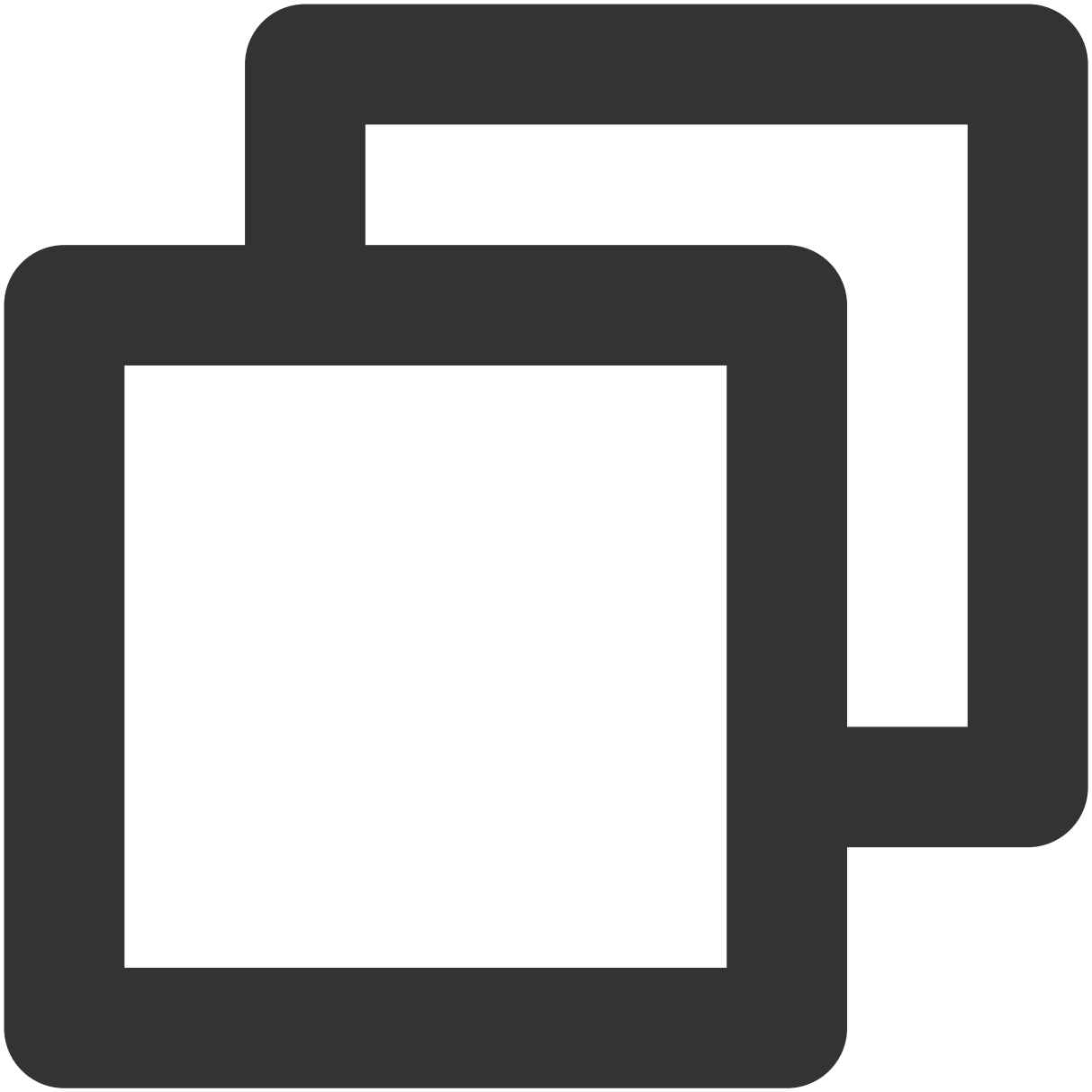
/* Set configuration information such as appid, endpoint, access_key_id, acces_key_
cos_str_set(&options->config->endpoint, TEST_COS_ENDPOINT);
cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
cos_str_set(&options->config->appid, TEST_APPID);
options->config->is_cname = is_cname;
options->ctl = cos_http_controller_create(options->pool, 0);
/* The bucket name entered here must be in the format of BucketName-APPID. */
cos_str_set(&bucket, TEST_BUCKET_NAME);

/* Call an API to upload an object */
cos_str_set(&file, TEST_DOWNLOAD_NAME);
cos_str_set(&object, TEST_OBJECT_NAME);
s = cos_put_object_from_file(options, &bucket, &object, &file, NULL, &resp_headers)
if (cos_status_is_ok(s)) {
        printf("put object succeeded\\n");
} else {
        printf("put object failed\\n");
}

//destroy memory pool
cos_pool_destroy(p);
```

Downloading an object

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```
cos_pool_t *p = NULL;
int is_cname = 0;
cos_status_t *s = NULL;
cos_request_options_t *options = NULL;
cos_string_t bucket;
cos_string_t object;
cos_string_t file;
cos_table_t *resp_headers = NULL;

/* Re-create a new memory pool. The second parameter is NULL, which indicates it is
cos_pool_create(&p, NULL);
```

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```
/* Create and initialize `options`. This parameter contains global configuration in
 * The memory of `options` is allocated by the pool, and will be released upon pool
 */
options = cos_request_options_create(p);
options->config = cos_config_create(options->pool);
init_test_config(options->config, is_cname);

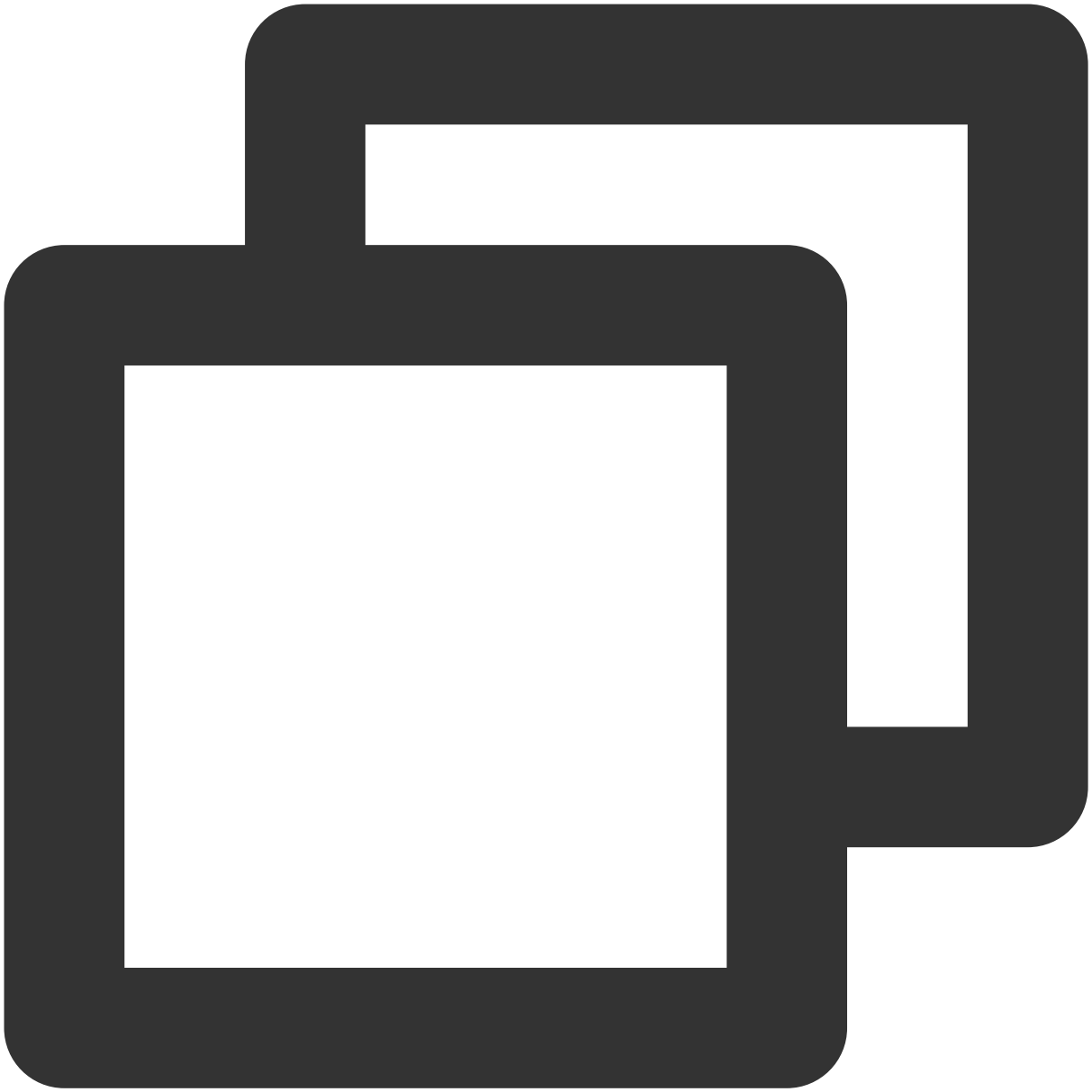
/* Set configuration information such as appid, endpoint, access_key_id, acces_key_
cos_str_set(&options->config->endpoint, TEST_COS_ENDPOINT);
cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
cos_str_set(&options->config->appid, TEST_APPID);
options->config->is_cname = is_cname;
options->ctl = cos_http_controller_create(options->pool, 0);
/* The bucket name entered here must be in the format of BucketName-APPID. */
cos_str_set(&bucket, TEST_BUCKET_NAME);

/* Call an API to download an object */
cos_str_set(&file, TEST_DOWNLOAD_NAME);
cos_str_set(&object, TEST_OBJECT_NAME);
s = cos_get_object_to_file(options, &bucket, &object, NULL, NULL, &file, &resp_head
if (cos_status_is_ok(s)) {
        printf("get object succeeded\\n");
} else {
        printf("get object failed\\n");
}

//destroy memory pool
cos_pool_destroy(p);
```

Deleting an object

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```
cos_pool_t *p = NULL;
int is_cname = 0;
cos_status_t *s = NULL;
cos_request_options_t *options = NULL;
cos_string_t bucket;
cos_string_t object;
cos_table_t *resp_headers = NULL;

/* Create a new memory pool. The second parameter is NULL, indicating that it is no
cos_pool_create(&p, NULL);
```

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```
/* Create and initialize `options`. This parameter contains global configuration in
 * The memory of `options` is allocated by the pool, and will be released upon pool
 */
options = cos_request_options_create(p);
options->config = cos_config_create(options->pool);
init_test_config(options->config, is_cname);

/* Set configuration information such as appid, endpoint, access_key_id, acces_key_
cos_str_set(&options->config->endpoint, TEST_COS_ENDPOINT);
cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
cos_str_set(&options->config->appid, TEST_APPID);
options->config->is_cname = is_cname;
options->ctl = cos_http_controller_create(options->pool, 0);
/* The bucket name entered here must be in the format of BucketName-APPID. */
cos_str_set(&bucket, TEST_BUCKET_NAME);

/* Call an API to delete an object */
cos_str_set(&object, TEST_OBJECT_NAME);
s = cos_delete_object(options, &bucket, &object, &resp_headers);
if (cos_status_is_ok(s)) {
        printf("delete object succeeded\\n");
} else {
        printf("delete object failed\\n");
}

//destroy memory pool
cos_pool_destroy(p);
```

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Image Processing
Persistent Image Processing

Last updated：2024-02-29 16:06:23

Overview

This document provides an overview of APIs and SDK code samples for persistent image processing.

API	Description
Persistent image processing	Processes an image during upload, or processes an image stored in COS and saves the processing result to COS.

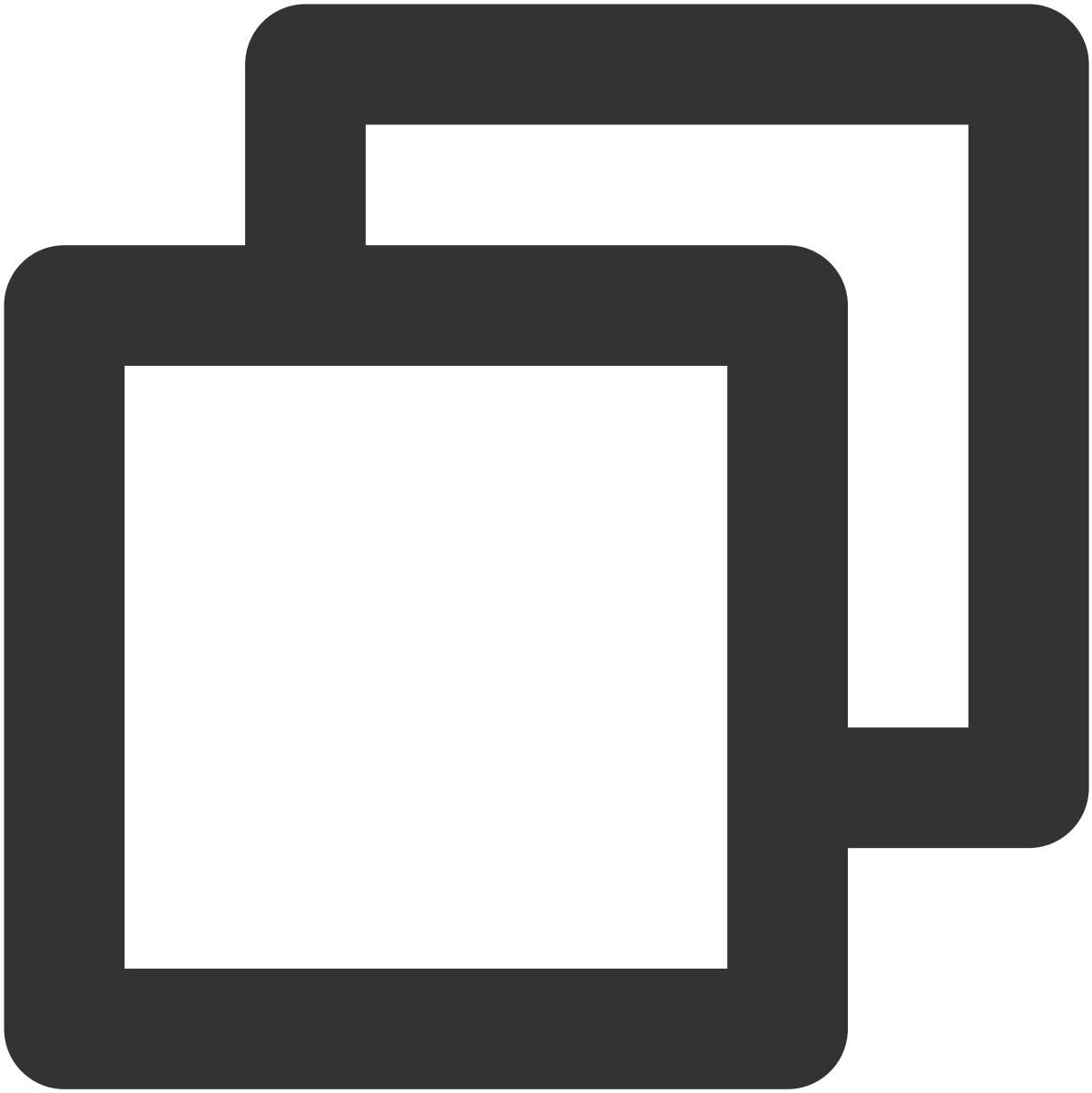
Processing During Upload

Feature description

COS allows you to process images during upload. To enable this, add `Pic-Operations` to the request header and set relevant parameters. You can also save the input images and processing results to COS. Currently, images within 20 MB can be processed.

Method prototype

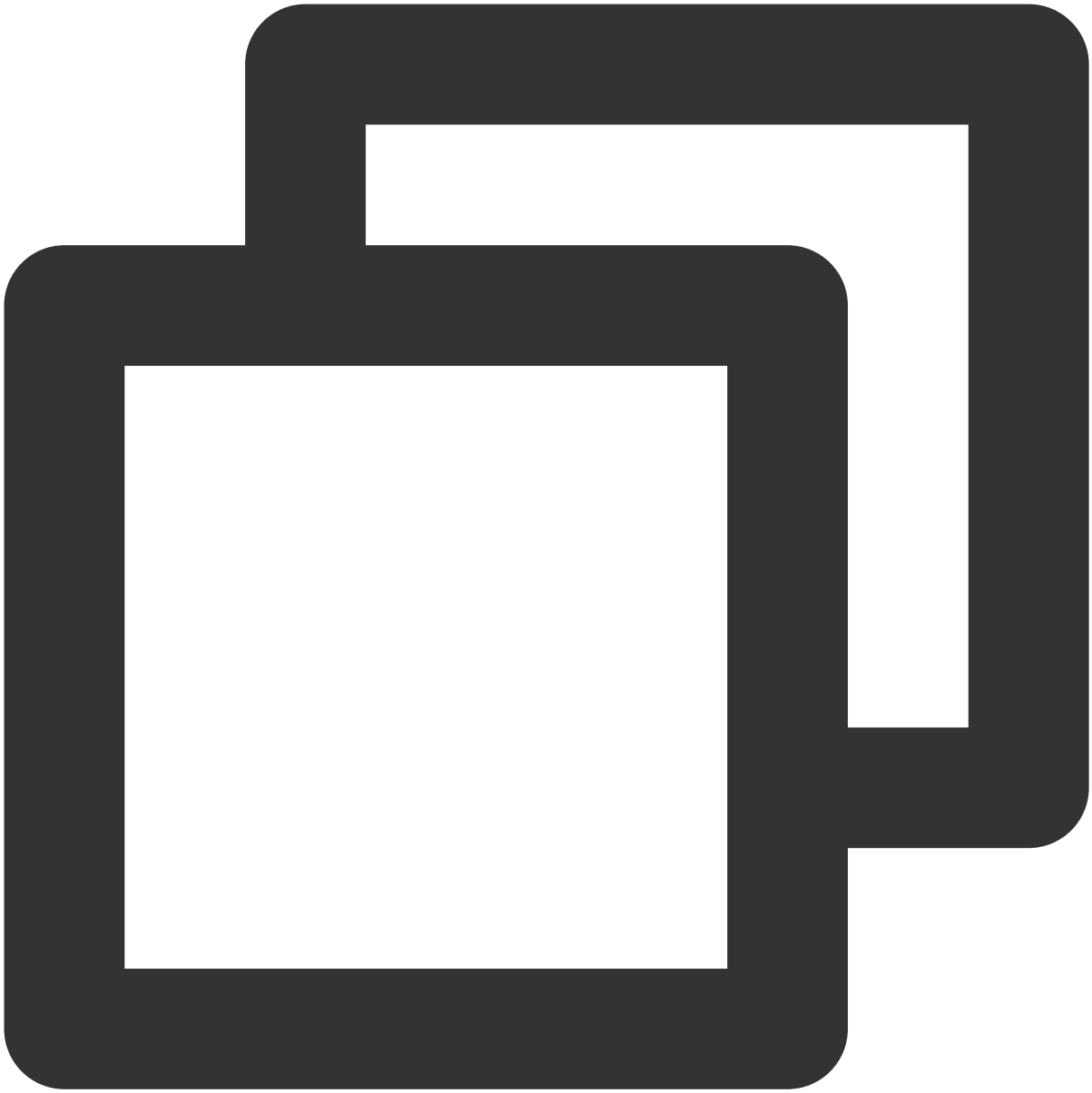
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```
cos_status_t *ci_put_object_from_file(const cos_request_options_t *options,
                                      const cos_string_t *bucket,
                                      const cos_string_t *object,
                                      const cos_string_t *filename,
                                      cos_table_t *headers,
                                      cos_table_t **resp_headers,
                                      ci_operation_result_t **results)
```

Sample request

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```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <unistd.h>

// `endpoint` is the COS access domain name. For more information, visit https://cl
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
```

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```
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void init_test_config(cos_config_t *config, int is_cname)
{
    cos_str_set(&config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&config->appid, TEST_APPID);
    config->is_cname = is_cname;
}

void init_test_request_options(cos_request_options_t *options, int is_cname)
{
    options->config = cos_config_create(options->pool);
    init_test_config(options->config, is_cname);
    options->ctl = cos_http_controller_create(options->pool, 0);
}

void test_put_image_process()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_string_t object;
    cos_string_t file;
    cos_table_t *headers = NULL;
    cos_table_t *resp_headers;
    ci_operation_result_t *results = NULL;

    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    init_test_request_options(options, is_cname);
    cos_str_set(&bucket, TEST_BUCKET_NAME);

    // Process during upload
```

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```
    headers = cos_table_make(p, 1);
    apr_table_addn(headers, "pic-operations", "{\\"is_pic_info\\":1,\\"rules\\":[{\
    cos_str_set(&file, "test.jpg");
    cos_str_set(&object, "test.jpg");
    s = ci_put_object_from_file(options, &bucket, &object, &file, headers, &resp_he
    if (!cos_status_is_ok(s)) {
        printf("put object failed: %s\\n", s->req_id);
    }
    printf("origin key: %s\\n", results->origin.key.data);
    printf("process key: %s\\n", results->object.key.data);

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_put_image_process();

    cos_http_io_deinitialize();

    return 0;
}
```

Parameter description

Parameter	Description	Type
options	COS request options	Struct
bucket	Bucket name in the format of `BucketName-APPID`	String
object	Object name	String

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filename	Filename of the local object	String
headers	COS request headers	Struct
resp_headers	Returned HTTP response headers	Struct
results	Processing result of the in-cloud data	Struct

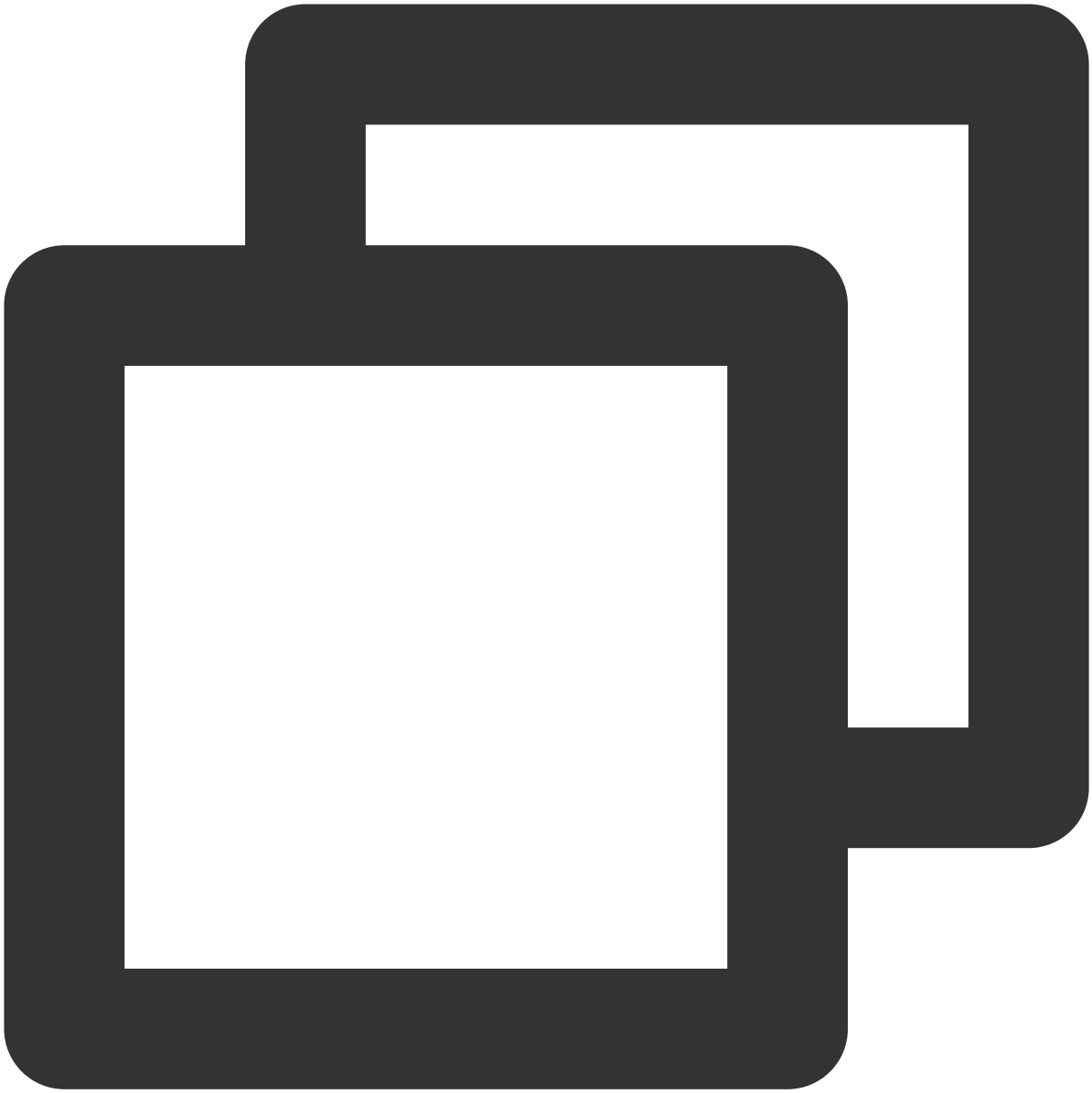
Processing In-Cloud Data

Feature description

This API is used to process an image stored in COS and save the processing result to COS.

Method prototype

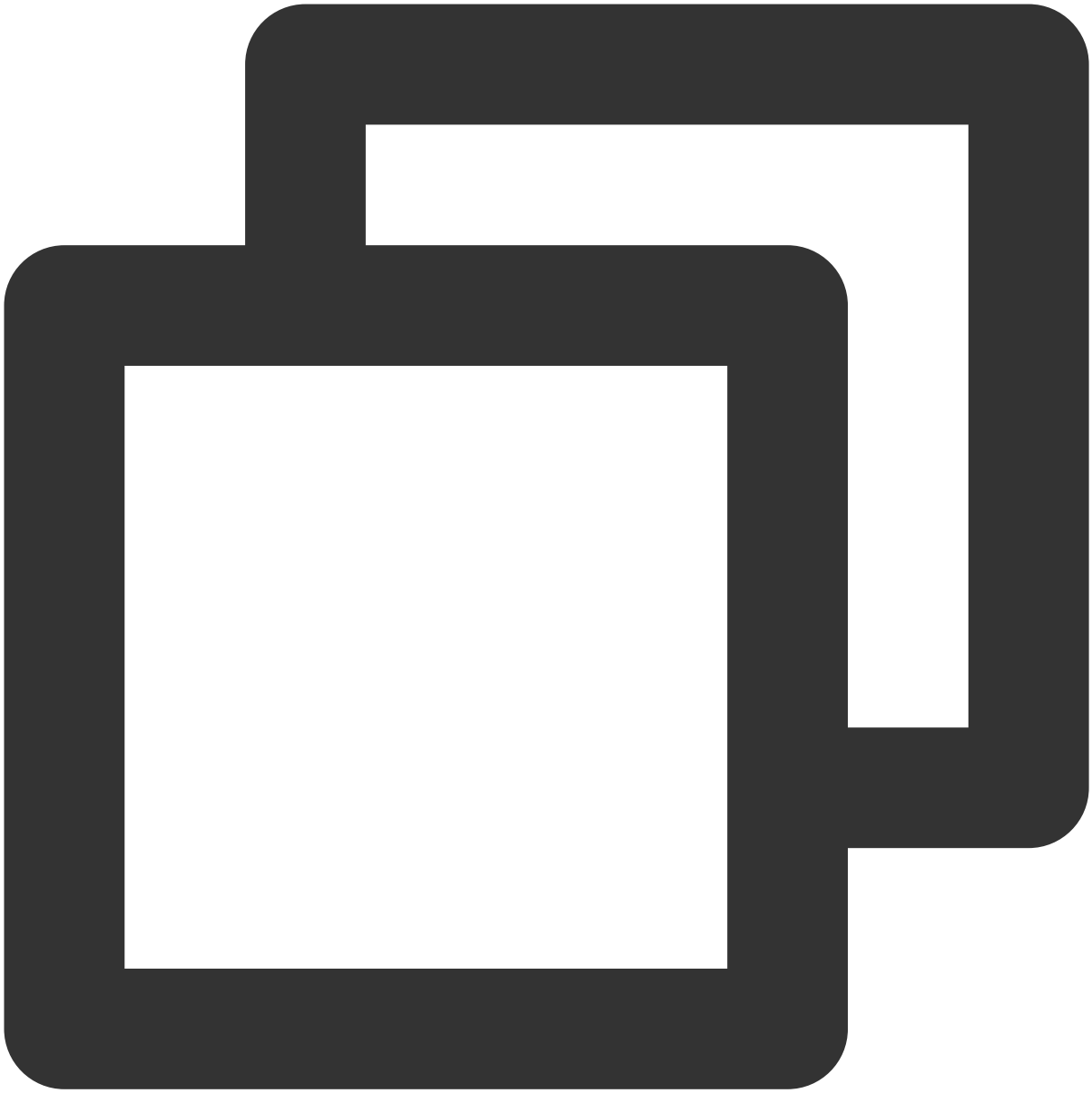
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```
cos_status_t *ci_image_process(const cos_request_options_t *options,
                               const cos_string_t *bucket,
                               const cos_string_t *object,
                               cos_table_t *headers,
                               cos_table_t **resp_headers,
                               ci_operation_result_t *results);
```

Sample request

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```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <unistd.h>

// `endpoint` is the COS access domain name. For more information, visit https://cl
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
```

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```
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void init_test_config(cos_config_t *config, int is_cname)
{
    cos_str_set(&config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&config->appid, TEST_APPID);
    config->is_cname = is_cname;
}

void init_test_request_options(cos_request_options_t *options, int is_cname)
{
    options->config = cos_config_create(options->pool);
    init_test_config(options->config, is_cname);
    options->ctl = cos_http_controller_create(options->pool, 0);
}

void test_ci_image_process()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_string_t object;
    cos_table_t *headers = NULL;
    cos_table_t *resp_headers;
    ci_operation_result_t *results = NULL;

    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    init_test_request_options(options, is_cname);
    cos_str_set(&bucket, TEST_BUCKET_NAME);

    cos_str_set(&object, "test.jpg");
    headers = cos_table_make(p, 1);
```

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```
    apr_table_addn(headers, "pic-operations", "{\\"is_pic_info\\":1,\\"rules\\":[{\

    s = ci_image_process(options, &bucket, &object, headers, &resp_headers, &result
    if (!cos_status_is_ok(s)) {
        printf("ci image process fail, req_id:%s\\n", s->req_id);
    }
    printf("origin key: %s\\n", results->origin.key.data);
    printf("process key: %s\\n", results->object.key.data);
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_ci_image_process();

    cos_http_io_deinitialize();

    return 0;
}
```

Parameter description

Parameter	Description	Type
options	COS request options	Struct
bucket	Bucket name in the format of `BucketName-APPID`. The bucket name entered here must be in this format.	string
object	Object name	string
headers	COS request headers. You need to add the `Pic-Operations` header.	Struct

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resp_headers	Returned HTTP response headers	Struct
results	Processing result of the in-cloud data	Struct

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Basic Image Processing

Last updated：2024-02-29 16:06:23

Overview

This document provides an overview of APIs and SDK code samples for basic image processing.

API	Description
Scaling	Scales up/down an image.
Cropping	Crops an image, including regular cropping, scaling and cropping, cropping to circle, rounded corner cropping, and smart face cropping.
Rotation	Rotates an image, including regular rotation and adaptive rotation.
Format conversion	Converts the format of an image, optimizes the GIF format, and performs progressive display.
Quality change	Adjusts the quality of an image.
Gaussian blurring	Blurs an image by a Gaussian function.
Sharpening	Sharpens an image.
Image watermark	Adds a watermark to an image.
Text watermark	Adds a real-time text watermark to an image.
Basic image information acquisition	Queries the basic information of an image, such as format, width, and height.
Image EXIF data acquisition	Queries the EXIF data of an image.
Image average hue acquisition	Queries the average hue of an image.
Metadata removal	Removes the image metadata, including the EXIF data.
Quick thumbnail template	Generates a thumbnail through an image processing template.
Pipeline operator	Performs multiple operations on an image in sequence.

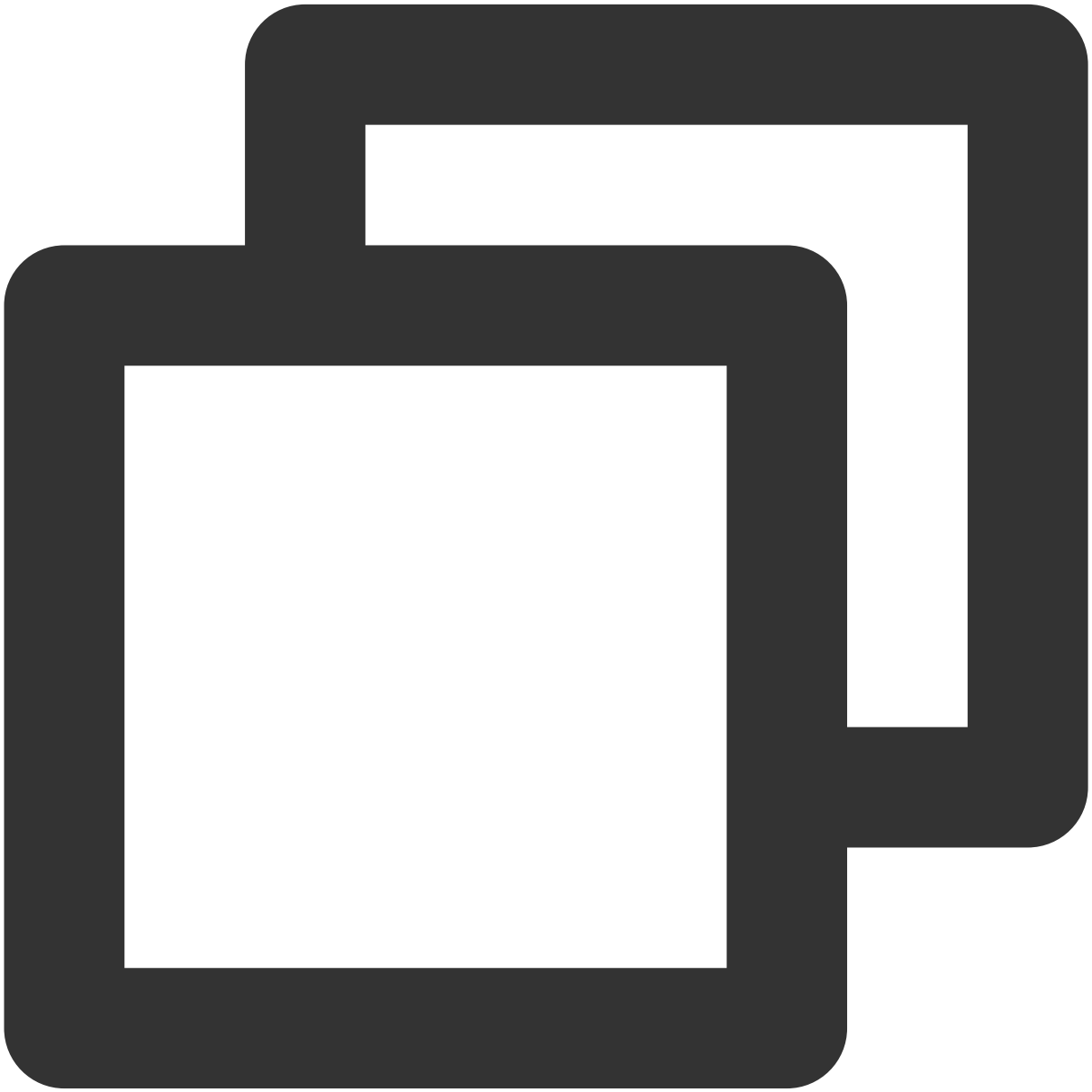
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Scaling

Feature description

CI uses the **imageMogr2** API to scale images.

Sample request



```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
```

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```
#include <unistd.h>

// `endpoint` is the COS access domain name. For more information, visit https://cl
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void init_test_config(cos_config_t *config, int is_cname)
{
    cos_str_set(&config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&config->appid, TEST_APPID);
    config->is_cname = is_cname;
}

void init_test_request_options(cos_request_options_t *options, int is_cname)
{
    options->config = cos_config_create(options->pool);
    init_test_config(options->config, is_cname);
    options->ctl = cos_http_controller_create(options->pool, 0);
}

void test_image_scale()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_string_t object;
    cos_string_t file;
    cos_table_t *resp_headers;
    cos_table_t *params = NULL;
```

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```
    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    init_test_request_options(options, is_cname);
    cos_str_set(&bucket, TEST_BUCKET_NAME);

    params = cos_table_make(p, 1);
    apr_table_addn(params, "imageMogr2/thumbnail/!50p", "");
    cos_str_set(&file, "test.jpg");
    cos_str_set(&object, "test.jpg");
    s = cos_get_object_to_file(options, &bucket, &object, NULL, params, &file, &res
    log_status(s);
    if (!cos_status_is_ok(s)) {
        printf("cos_get_object_to_file fail, req_id:%s\\n", s->req_id);
    }
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_image_scale();

    cos_http_io_deinitialize();

    return 0;
}
```

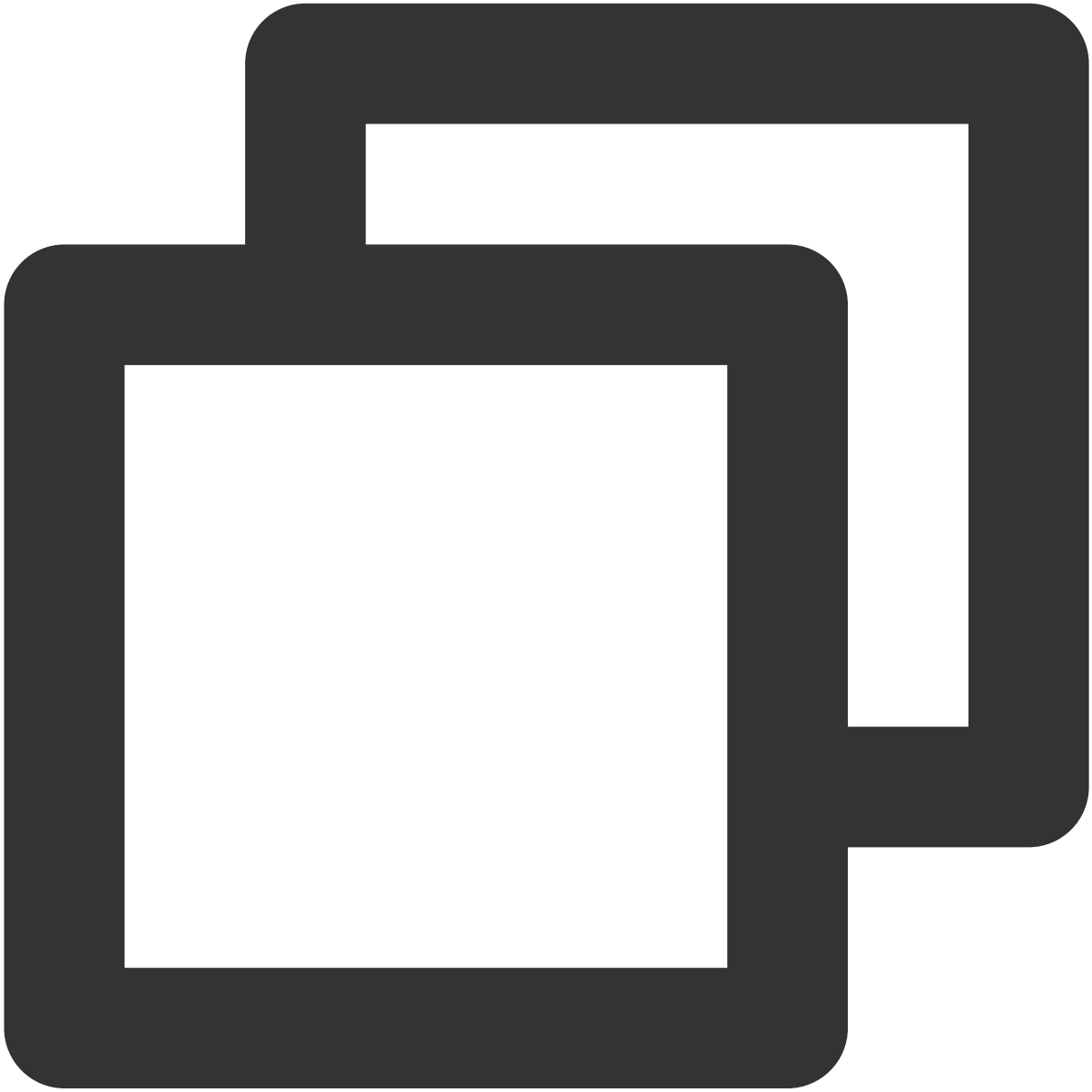
Cropping

Feature description

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CI uses the **imageMogr2** API to crop images, including regular cropping, scaling and cropping, cropping to circle, rounded corner cropping, and smart face cropping.

Sample request



```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <unistd.h>

// `endpoint` is the COS access domain name. For more information, visit https://cl
```

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```
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void init_test_config(cos_config_t *config, int is_cname)
{
    cos_str_set(&config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&config->appid, TEST_APPID);
    config->is_cname = is_cname;
}

void init_test_request_options(cos_request_options_t *options, int is_cname)
{
    options->config = cos_config_create(options->pool);
    init_test_config(options->config, is_cname);
    options->ctl = cos_http_controller_create(options->pool, 0);
}

void test_image_cut()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_string_t object;
    cos_string_t file;
    cos_table_t *resp_headers;
    cos_table_t *params = NULL;

    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
```

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```
    init_test_request_options(options, is_cname);
    cos_str_set(&bucket, TEST_BUCKET_NAME);

    params = cos_table_make(p, 1);
    apr_table_addn(params, "imageMogr2/cut/600x600x100x10", "");
    cos_str_set(&file, "test.jpg");
    cos_str_set(&object, "test.jpg");
    s = cos_get_object_to_file(options, &bucket, &object, NULL, params, &file, &res
    log_status(s);
    if (!cos_status_is_ok(s)) {
        printf("cos_get_object_to_file fail, req_id:%s\\n", s->req_id);
    }
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_image_cut();

    cos_http_io_deinitialize();

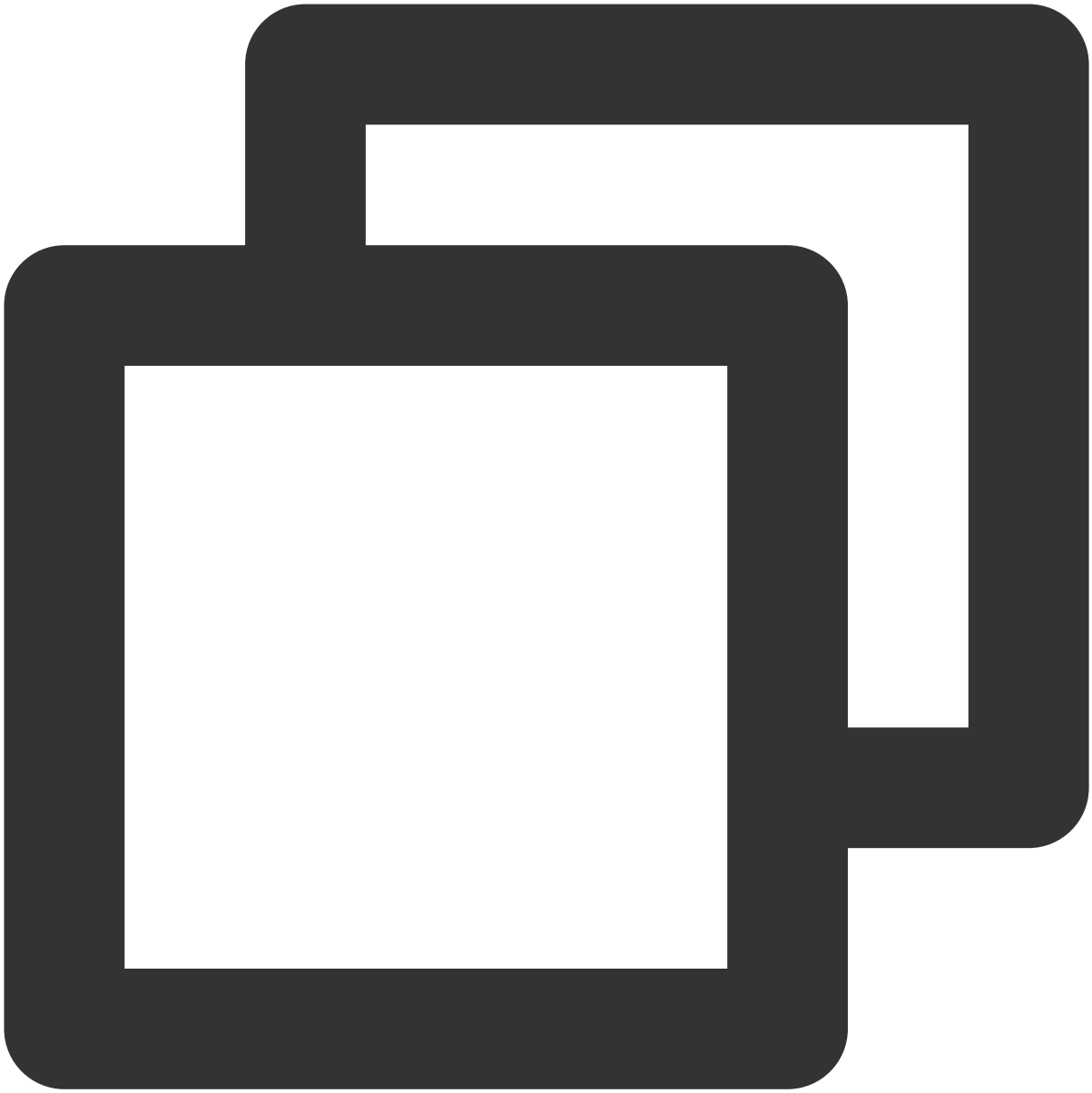
    return 0;
}
```

Other basic image processing operations

Feature description

You can perform other basic processing operations on images by changing the value of the `operation` parameter. For example, you can rotate the image clockwise by 90 degrees as follows:

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```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <unistd.h>

// `endpoint` is the COS access domain name. For more information, visit https://cl
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
```

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```
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void init_test_config(cos_config_t *config, int is_cname)
{
    cos_str_set(&config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&config->appid, TEST_APPID);
    config->is_cname = is_cname;
}

void init_test_request_options(cos_request_options_t *options, int is_cname)
{
    options->config = cos_config_create(options->pool);
    init_test_config(options->config, is_cname);
    options->ctl = cos_http_controller_create(options->pool, 0);
}

void test_image_rotate()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_string_t object;
    cos_string_t file;
    cos_table_t *resp_headers;
    cos_table_t *params = NULL;

    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    init_test_request_options(options, is_cname);
    cos_str_set(&bucket, TEST_BUCKET_NAME);

    params = cos_table_make(p, 1);
    apr_table_addn(params, "imageMogr2/rotate/90", "");
```

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```
    cos_str_set(&file, "test.jpg");
    cos_str_set(&object, "test.jpg");
    s = cos_get_object_to_file(options, &bucket, &object, NULL, params, &file, &res
    log_status(s);
    if (!cos_status_is_ok(s)) {
        printf("cos_get_object_to_file fail, req_id:%s\\n", s->req_id);
    }
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_image_rotate();

    cos_http_io_deinitialize();

    return 0;
}
```

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Image Advanced Compression

Last updated：2024-02-29 16:06:22

Overview

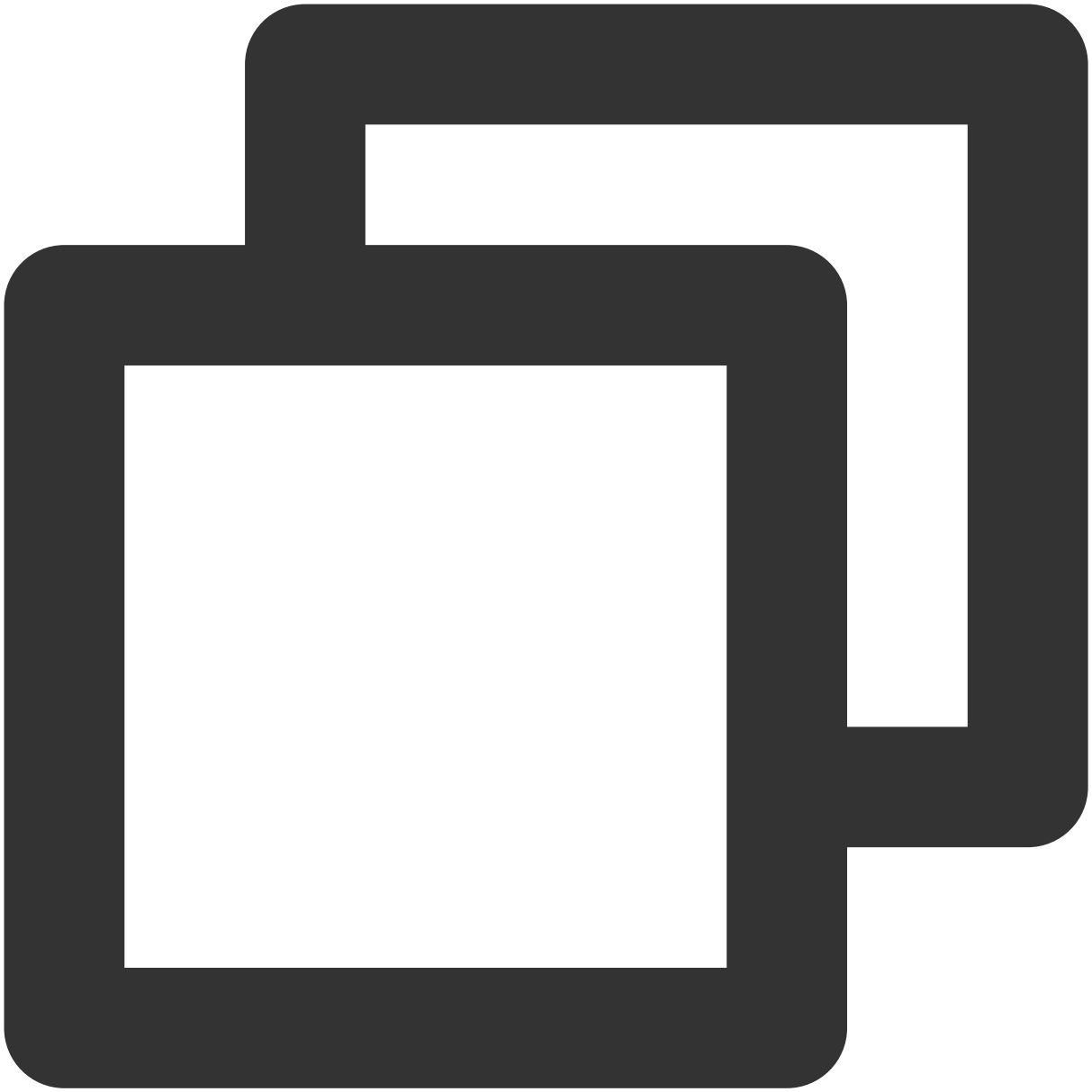
This document provides an overview of APIs and SDK code samples for image advanced compression.

API	Description
Image advanced compression	Allows you to easily convert images into formats that provide a high compression ratio, such as TPG and HEIF. This effectively reduces the transfer time, loading time, and the use of bandwidth and traffic.

Method prototype

Image compression is implemented via object download. All you need to do is to add the request parameters in the following syntax:

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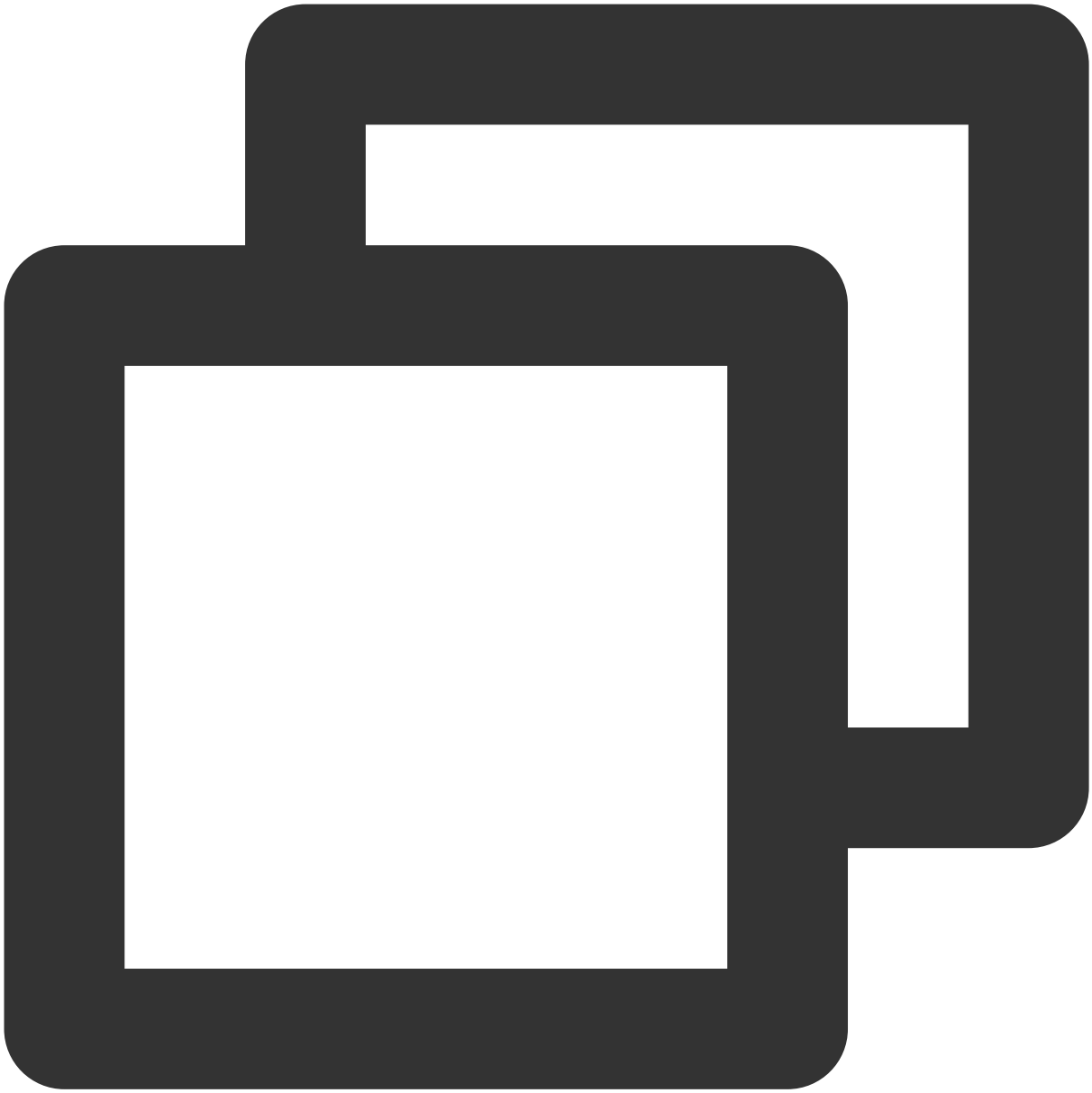


```
imageMogr2/format/<Format>
```

Parameter	Description
format	Target compression format, which can be TPG or HEIF for thumbnails.

Sample request

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```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <unistd.h>

// `endpoint` is the COS access domain name. For more information, visit https://in
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
```

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```
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void init_test_config(cos_config_t *config, int is_cname)
{
    cos_str_set(&config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&config->appid, TEST_APPID);
    config->is_cname = is_cname;
}

void init_test_request_options(cos_request_options_t *options, int is_cname)
{
    options->config = cos_config_create(options->pool);
    init_test_config(options->config, is_cname);
    options->ctl = cos_http_controller_create(options->pool, 0);
}

void test_image_compress()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_string_t object;
    cos_string_t file;
    cos_table_t *resp_headers;
    cos_table_t *params = NULL;

    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    init_test_request_options(options, is_cname);
    cos_str_set(&bucket, TEST_BUCKET_NAME);

    params = cos_table_make(p, 1);
    apr_table_addn(params, "imageMogr2/format/tpg", "");
```

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```
    cos_str_set(&object, "test.jpg");
    cos_str_set(&file, "test.tpg");
    s = cos_get_object_to_file(options, &bucket, &object, NULL, params, &file, &res
    log_status(s);
    if (!cos_status_is_ok(s)) {
        printf("cos_get_object_to_file fail, req_id:%s\\n", s->req_id);
    }

    params = cos_table_make(p, 1);
    apr_table_addn(params, "imageMogr2/format/heif", "");
    cos_str_set(&file, "test.heif");
    s = cos_get_object_to_file(options, &bucket, &object, NULL, params, &file, &res
    log_status(s);
    if (!cos_status_is_ok(s)) {
        printf("cos_get_object_to_file fail, req_id:%s\\n", s->req_id);
    }

    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_image_compress();

    cos_http_io_deinitialize();

    return 0;
}
```

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Media Processing
Media Bucket APIs

Last updated：2024-02-29 16:06:22

Overview

This document provides an overview of APIs and SDK code samples for media buckets.

API	Operation	Description
DescribeMediaBuckets	Querying media processing activation status	Queries buckets with media processing enabled

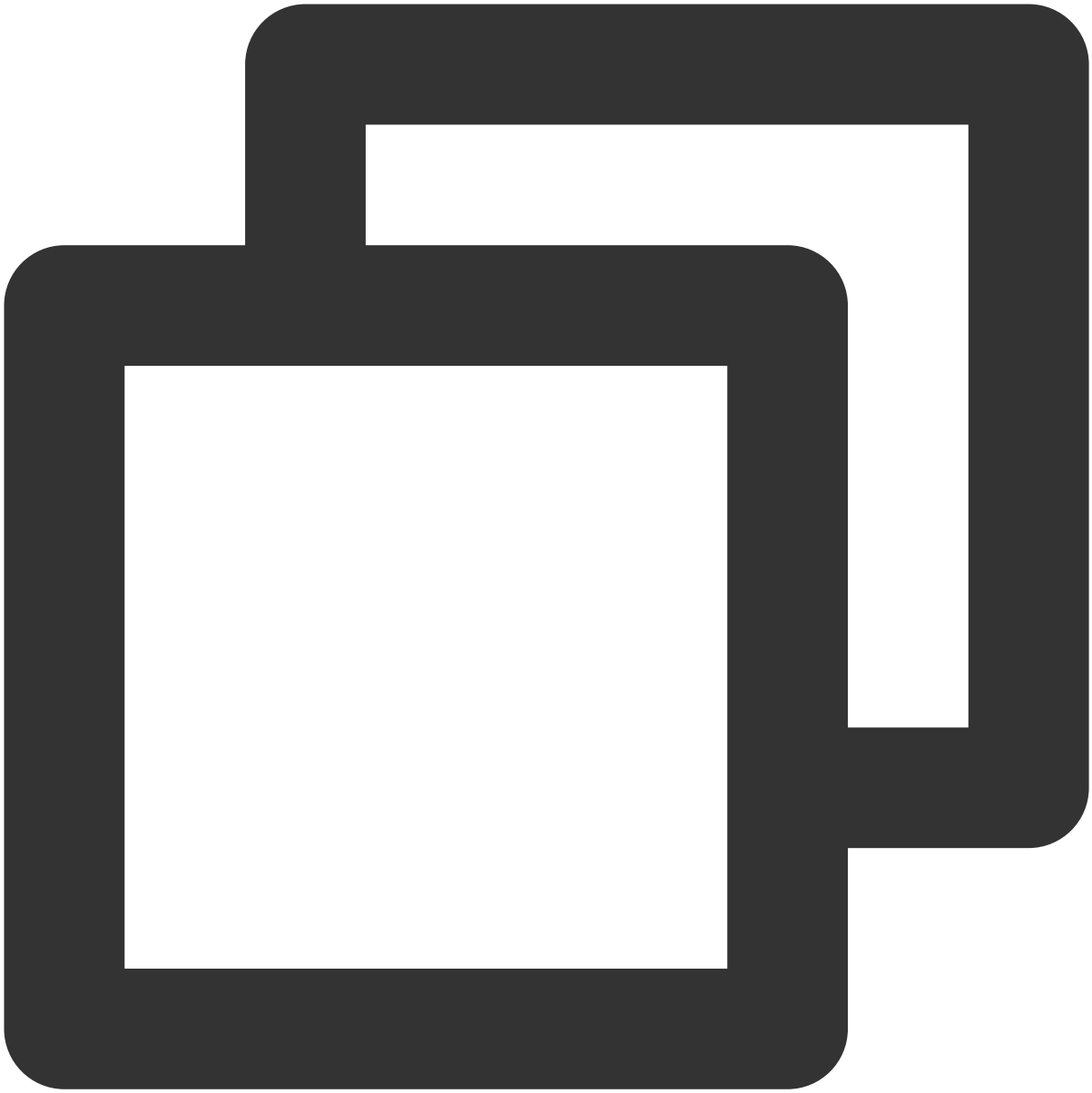
Querying Media Processing Activation Status

Feature description

This API is used to query buckets with media processing enabled.

Method prototype

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```
cos_status_t *ci_describe_media_buckets(const cos_request_options_t *options,
                                        const ci_media_buckets_request_t *media_req
                                        cos_table_t *headers,
                                        cos_table_t **resp_headers,
                                        ci_media_buckets_result_t **media_result);
```

Parameter description

Parameter	Description	Type

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options	COS request options.	Struct
media_request	Request parameters for media bucket query.	Struct
regions	Region information, such as `ap-shanghai` and `ap-beijing`. To specify multiple regions, separate them with commas.	String
bucket_names	Bucket name. To specify multiple bucket names, separate them with commas. Exact search is supported.	String
bucket_name	Bucket name prefix for prefix search.	String
page_number	Page number.	String
page_size	Number of entries per page.	String
headers	COS request headers.	Struct
resp_headers	Returned HTTP response headers.	Struct
media_result	Returned information of buckets with media processing enabled.	Struct
total_count	Total number of media buckets.	Int
page_number	Current page number, which is the same as `pageNumber` in the request.	Int
page_size	Number of entries per page, which is the same as `pageSize` in the request.	Int
media_bucket_list	Media bucket list.	Struct
bucket_id	Bucket ID.	String
name	Bucket name, which is the same as `BucketId`.	String
region	Region.	String
create_time	Creation time.	String

Response description

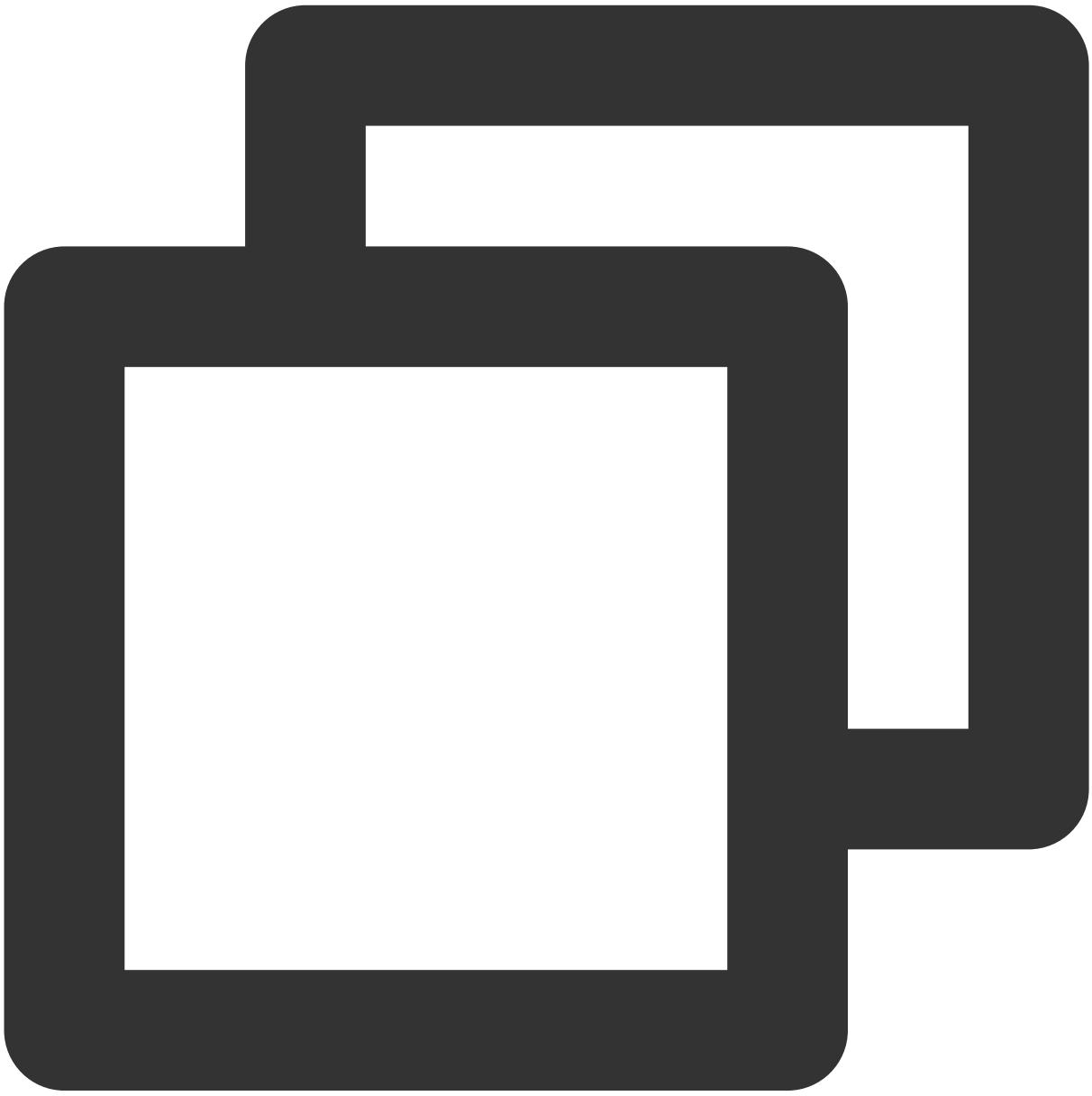
Response Parameter	Description	Type
code	Error code	Int
error_code	Error code	String
error_msg	Error message	String

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req_id	Request message ID	String

Sample

For the complete code, see the `test_ci_media_process_media_bucket()` function in `cos_demo.c` .



```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
```

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```
// CI endpoint. For more information, visit https://intl.cloud.tencent.com/document
static char TEST_CI_ENDPOINT[] = "https://ci.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
static char TEST_APPID[] = "<APPID>";    //your appid

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

static void log_media_buckets_result(ci_media_buckets_result_t *result)
{
    int index = 0;
    ci_media_bucket_list_t *media_bucket;

    cos_warn_log("total_count: %d", result->total_count);
    cos_warn_log("page_number: %d", result->page_number);
    cos_warn_log("page_size: %d", result->page_size);

    cos_list_for_each_entry(ci_media_bucket_list_t, media_bucket, &result->media_bu
        cos_warn_log("media_bucket index:%d", ++index);
        cos_warn_log("media_bucket->bucket_id: %s", media_bucket->bucket_id.data);
        cos_warn_log("media_bucket->name: %s", media_bucket->name.data);
        cos_warn_log("media_bucket->region: %s", media_bucket->region.data);
        cos_warn_log("media_bucket->create_time: %s", media_bucket->create_time.dat
    }
}

void test_ci_media_process_media_bucket()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_table_t *resp_headers;
    ci_media_buckets_request_t *media_buckets_request;
    ci_media_buckets_result_t *media_buckets_result;

    // Basic configuration
    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
```

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```
    options->config = cos_config_create(options->pool);
    cos_str_set(&options->config->endpoint, TEST_CI_ENDPOINT);     // https://ci.<R
    cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&options->config->appid, TEST_APPID);
    options->config->is_cname = is_cname;
    options->ctl = cos_http_controller_create(options->pool, 0);

    // Use your own configuration. For more information, visit https://intl.cloud.t
    media_buckets_request = ci_media_buckets_request_create(p);
    cos_str_set(&media_buckets_request->regions, "");
    cos_str_set(&media_buckets_request->bucket_names, "");
    cos_str_set(&media_buckets_request->bucket_name, "");
    cos_str_set(&media_buckets_request->page_number, "1");
    cos_str_set(&media_buckets_request->page_size, "10");
    s = ci_describe_media_buckets(options, media_buckets_request, NULL, &resp_heade
    log_status(s);
    if (s->code == 200) {
        log_media_buckets_result(media_buckets_result);
    }

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_ci_media_process_media_bucket();

    cos_http_io_deinitialize();

    return 0;
}
```

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Media Information APIs

Last updated：2024-02-29 16:06:23

Overview

This document provides an overview of APIs and SDK code samples for media information.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported. For more information, see Enabling Media Processing.

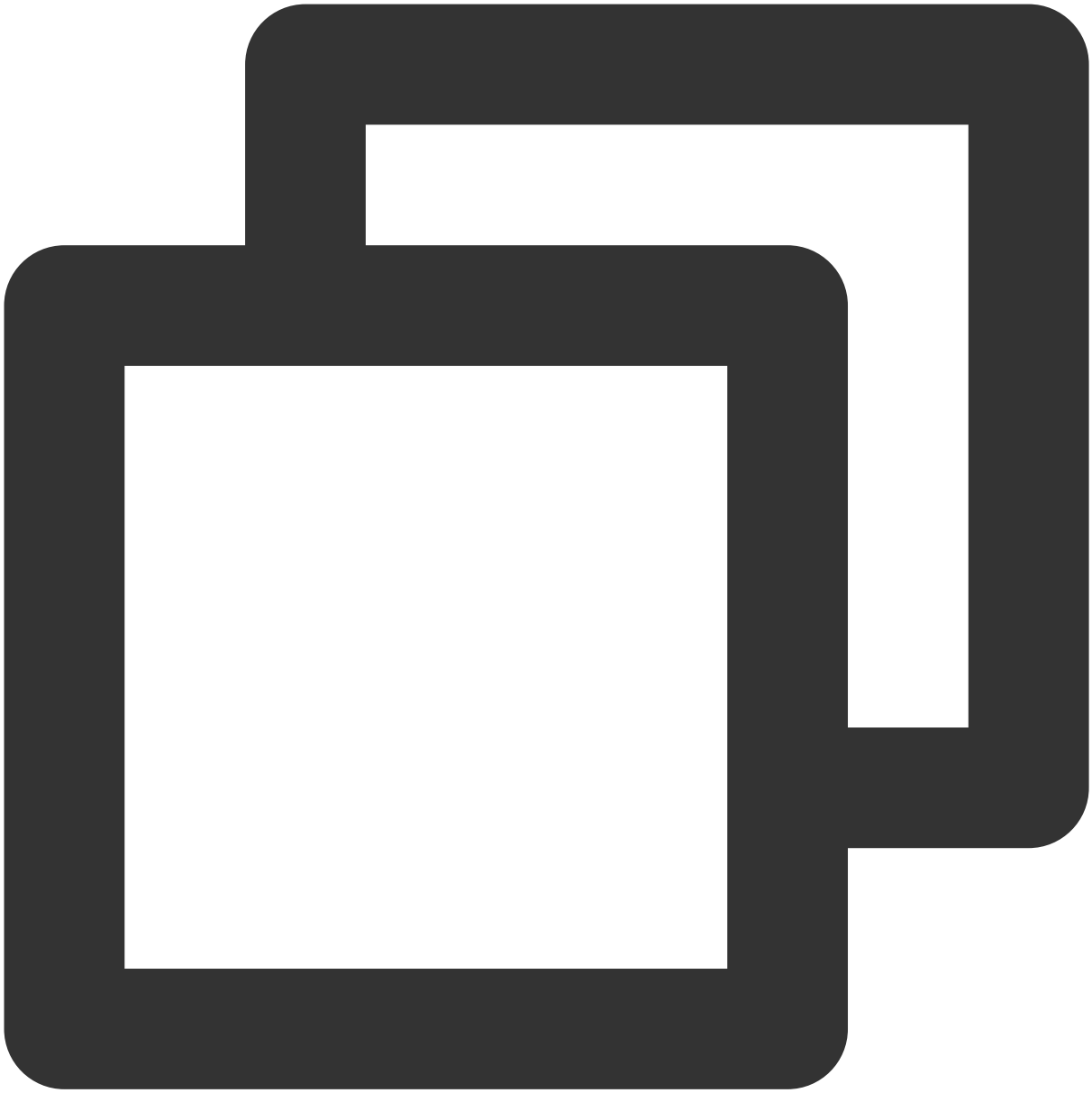
Querying File Information

Feature description

This API is used to get media file information.

Method prototype

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```
cos_status_t *ci_get_media_info(const cos_request_options_t *options,
                                const cos_string_t *bucket,
                                const cos_string_t *object,
                                cos_table_t *headers,
                                cos_table_t **resp_headers,
                                ci_media_info_result_t **media_result);
```

Parameter description

Parameter	Description	Type

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options	COS request options.	Struct
bucket	Bucket name in the format of `BucketName-APPID` .	String
object	Object name.	String
headers	COS request headers.	Struct
resp_headers	Returned HTTP response headers.	Struct
media_result	Returned media file information.	Struct
format	Format information.	Struct
num_stream	Number of streams (including videos, audios, and subtitles).	Int
num_program	Number of programs.	Int
format_name	Container format name.	String
format_long_name	Detailed name of the container format.	String
start_time	Start time in seconds.	Float
duration	Duration in seconds.	Float
bit_rate	Bitrate in Kbps.	Int
size	Size in bytes.	Int
stream	Stream information.	Struct
video	Video information.	Struct
audio	Audio information.	Struct
subtitle	Subtitles information.	Struct

`video` structure description

Parameter	Description	Type
index	Stream number.	Int
codec_name	Codec format name.	String
codec_long_name	Detailed name of the codec format.	String
codec_time_base	Codec timebase.	String

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codec_tag_string	Codec tag name.	String
codec_tag	Codec tag.	String
profile	Video codec profile.	String
height	Video height in px.	Int
width	Video width in px.	Int
has_b_frame	Whether B-frames exist. 1: yes; 0: no.	Int
ref_frames	Number of reference frames for video codec.	Int
sar	Sample aspect ratio.	String
dar	Display aspect ratio.	String
pix_format	Pixel format.	String
field_order	Field order.	String
level	Video codec level.	Int
fps	Video frame rate.	Int
avg_fps	Average frame rate.	String
timebase	Timebase.	String
start_time	Video start time in seconds.	Float
duration	Video duration in seconds.	Float
bit_rate	Bitrate in Kbps.	Float
num_frames	Total number of frames.	Int
language	Language.	String

`audio` structure description

Parameter	Description	Type
index	Stream number.	Int
codec_name	Codec format name.	String
codec_long_name	Detailed name of the codec format.	String

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codec_time_base	Codec timebase.	String
codec_tag_string	Codec tag name.	String
codec_tag	Codec tag.	String
sample_fmt	Sample format.	String
sample_rate	Sample rate.	Int
channel	Number of channels.	Int
channel_layout	Channel layout.	String
timebase	Timebase.	String
start_time	Audio start time in seconds.	Float
duration	Audio duration in seconds.	Float
bit_rate	Bitrate in Kbps.	Float
language	Language.	String

`subtitle` structure description

Parameter	Description	Type
index	Stream number.	Int
language	Language. `und` indicates no query result.	String

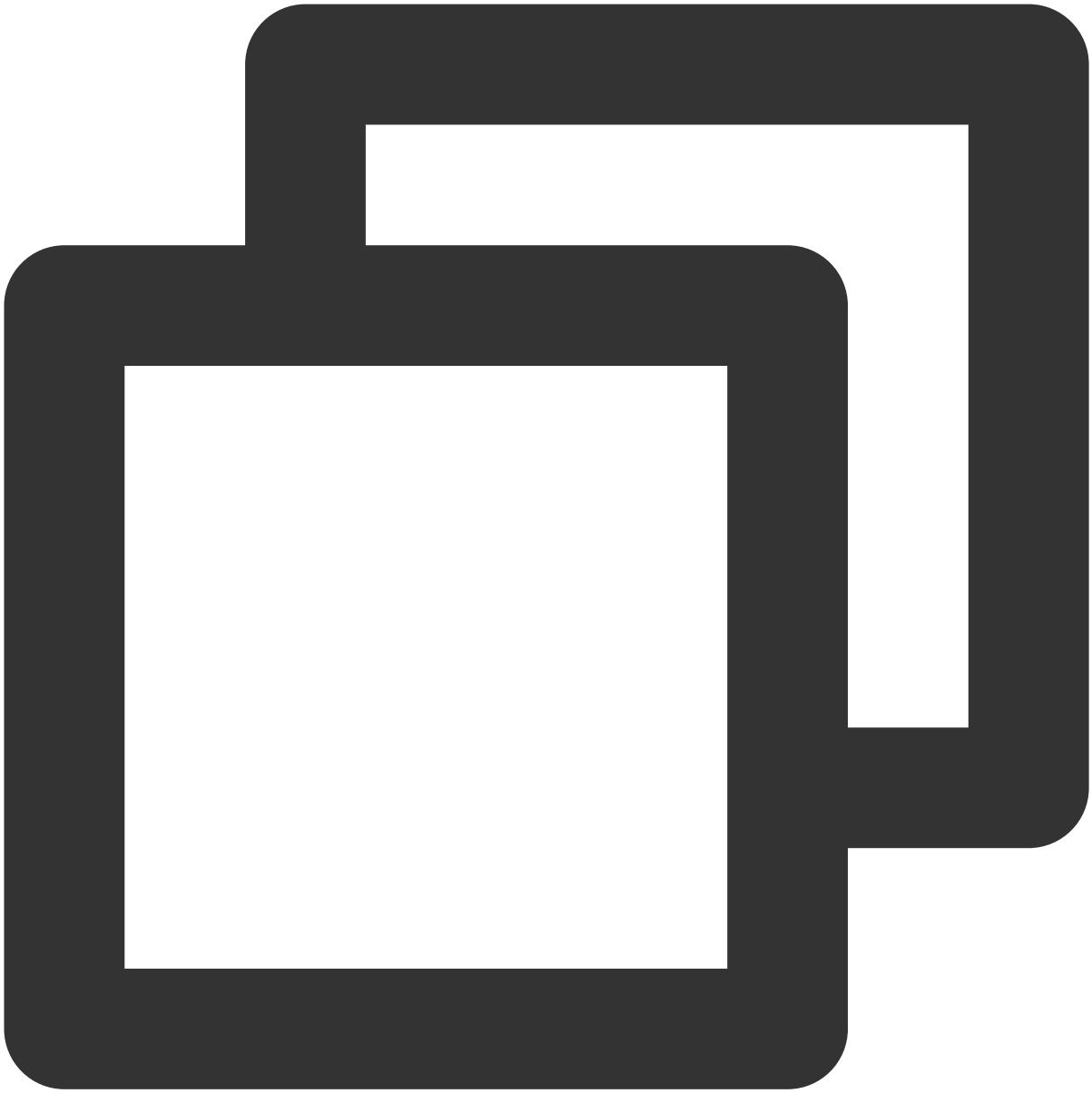
Response description

Response Parameter	Description	Type
code	Error code	Int
error_code	Error code	String
error_msg	Error message	String
req_id	Request message ID	String

Sample

For the complete code, see the `test_ci_media_process_media_info()` function in `cos_demo.c`.

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```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <sys/stat.h>

// `endpoint` is the COS access domain name. For more information, visit https://in
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
```

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```
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

static void log_media_info_result(ci_media_info_result_t *result)
{
    // format
    cos_warn_log("format.num_stream: %d", result->format.num_stream);
    cos_warn_log("format.num_program: %d", result->format.num_program);
    cos_warn_log("format.format_name: %s", result->format.format_name.data);
    cos_warn_log("format.format_long_name: %s", result->format.format_long_name.dat
    cos_warn_log("format.start_time: %f", result->format.start_time);
    cos_warn_log("format.duration: %f", result->format.duration);
    cos_warn_log("format.bit_rate: %d", result->format.bit_rate);
    cos_warn_log("format.size: %d", result->format.size);

    // stream.video
    cos_warn_log("stream.video.index: %d", result->stream.video.index);
    cos_warn_log("stream.video.codec_name: %s", result->stream.video.codec_name.dat
    cos_warn_log("stream.video.codec_long_name: %s", result->stream.video.codec_lon
    cos_warn_log("stream.video.codec_time_base: %s", result->stream.video.codec_tim
    cos_warn_log("stream.video.codec_tag_string: %s", result->stream.video.codec_ta
    cos_warn_log("stream.video.codec_tag: %s", result->stream.video.codec_tag.data)
    cos_warn_log("stream.video.profile: %s", result->stream.video.profile.data);
    cos_warn_log("stream.video.height: %d", result->stream.video.height);
    cos_warn_log("stream.video.width: %d", result->stream.video.width);
    cos_warn_log("stream.video.has_b_frame: %d", result->stream.video.has_b_frame);
    cos_warn_log("stream.video.ref_frames: %d", result->stream.video.ref_frames);
    cos_warn_log("stream.video.sar: %s", result->stream.video.sar.data);
    cos_warn_log("stream.video.dar: %s", result->stream.video.dar.data);
    cos_warn_log("stream.video.pix_format: %s", result->stream.video.pix_format.dat
    cos_warn_log("stream.video.field_order: %s", result->stream.video.field_order.d
    cos_warn_log("stream.video.level: %d", result->stream.video.level);
    cos_warn_log("stream.video.fps: %d", result->stream.video.fps);
    cos_warn_log("stream.video.avg_fps: %s", result->stream.video.avg_fps.data);
    cos_warn_log("stream.video.timebase: %s", result->stream.video.timebase.data);
    cos_warn_log("stream.video.start_time: %f", result->stream.video.start_time);
    cos_warn_log("stream.video.duration: %f", result->stream.video.duration);
    cos_warn_log("stream.video.bit_rate: %f", result->stream.video.bit_rate);
```

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```
    cos_warn_log("stream.video.num_frames: %d", result->stream.video.num_frames);
    cos_warn_log("stream.video.language: %s", result->stream.video.language.data);

    // stream.audio
    cos_warn_log("stream.audio.index: %d", result->stream.audio.index);
    cos_warn_log("stream.audio.codec_name: %s", result->stream.audio.codec_name.dat
    cos_warn_log("stream.audio.codec_long_name: %s", result->stream.audio.codec_lon
    cos_warn_log("stream.audio.codec_time_base: %s", result->stream.audio.codec_tim
    cos_warn_log("stream.audio.codec_tag_string: %s", result->stream.audio.codec_ta
    cos_warn_log("stream.audio.codec_tag: %s", result->stream.audio.codec_tag.data)
    cos_warn_log("stream.audio.sample_fmt: %s", result->stream.audio.sample_fmt.dat
    cos_warn_log("stream.audio.sample_rate: %d", result->stream.audio.sample_rate);
    cos_warn_log("stream.audio.channel: %d", result->stream.audio.channel);
    cos_warn_log("stream.audio.channel_layout: %s", result->stream.audio.channel_la
    cos_warn_log("stream.audio.timebase: %s", result->stream.audio.timebase.data);
    cos_warn_log("stream.audio.start_time: %f", result->stream.audio.start_time);
    cos_warn_log("stream.audio.duration: %f", result->stream.audio.duration);
    cos_warn_log("stream.audio.bit_rate: %f", result->stream.audio.bit_rate);
    cos_warn_log("stream.audio.language: %s", result->stream.audio.language.data);

    // stream.subtitle
    cos_warn_log("stream.subtitle.index: %d", result->stream.subtitle.index);
    cos_warn_log("stream.subtitle.language: %s", result->stream.subtitle.language.d
}

void test_ci_media_process_media_info()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_table_t *resp_headers;
    ci_media_info_result_t *media_info;
    cos_string_t object;

    // Basic configuration
    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    options->config = cos_config_create(options->pool);
    cos_str_set(&options->config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&options->config->appid, TEST_APPID);
    options->config->is_cname = is_cname;
    options->ctl = cos_http_controller_create(options->pool, 0);
    cos_str_set(&bucket, TEST_BUCKET_NAME);
```

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```
    cos_str_set(&object, "test.mp4");

    // Use your own configuration. For more information, visit https://intl.cloud.t
    s = ci_get_media_info(options, &bucket, &object, NULL, &resp_headers, &media_in
    log_status(s);
    if (s->code == 200) {
        log_media_info_result(media_info);
    }

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_ci_media_process_media_info();

    cos_http_io_deinitialize();

    return 0;
}
```

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Media Screenshot APIs

Last updated：2024-02-29 16:06:23

Overview

This document provides an overview of APIs and SDK code samples for media screenshot.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

Note:
Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported. For more information, see Enabling Media Processing.

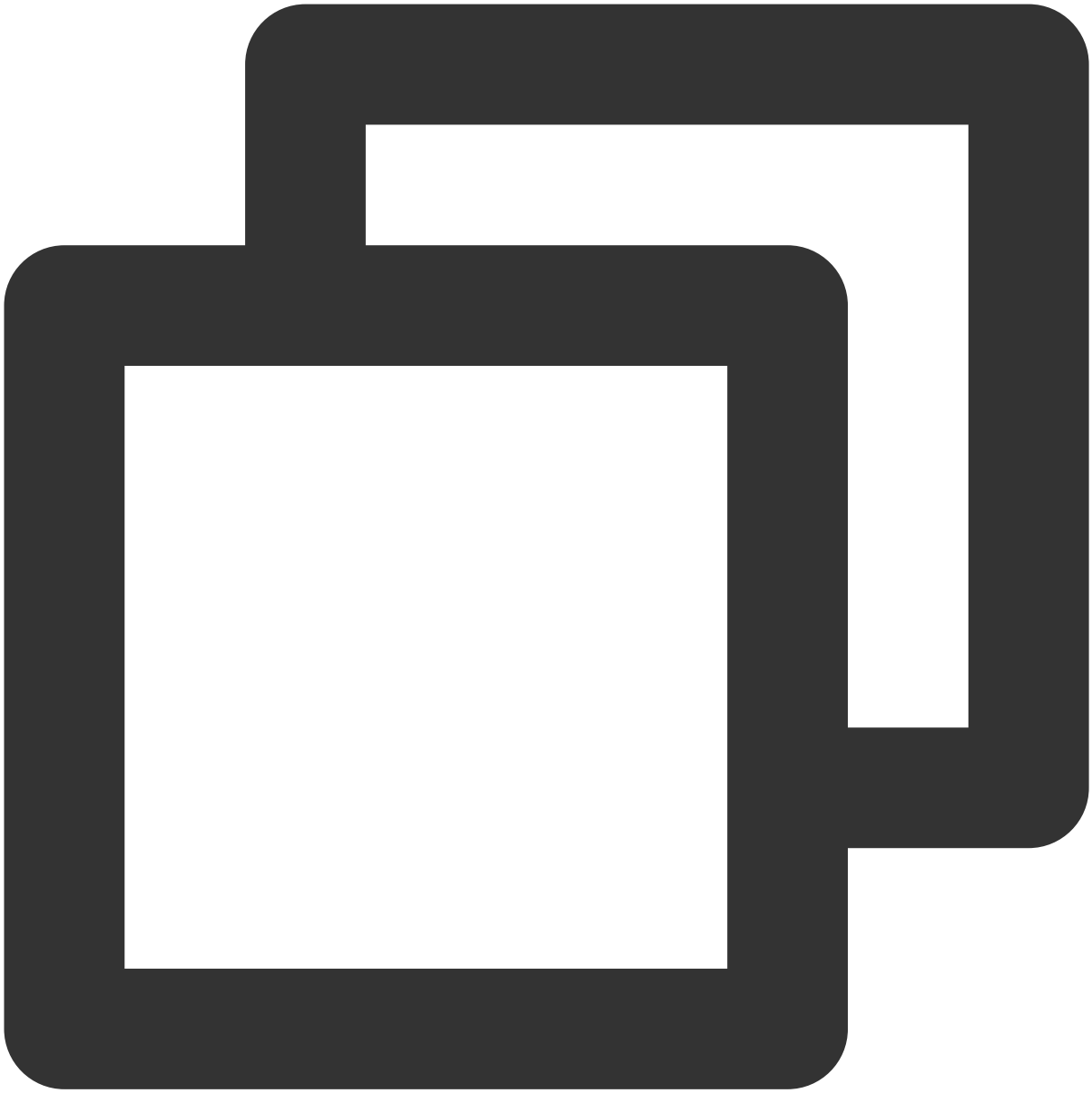
Querying Screenshot (Memory)

Feature description

This API is used to get a screenshot of a media file at some time point and put the screenshot information in the memory buffer.

Method prototype

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```
cos_status_t *ci_get_snapshot_to_buffer(const cos_request_options_t *options,
                                        const cos_string_t *bucket,
                                        const cos_string_t *object,
                                        const ci_get_snapshot_request_t *snapshot_r
                                        cos_table_t *headers,
                                        cos_list_t *buffer,
                                        cos_table_t **resp_headers);
```

Parameter description

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Parameter	Description	Type
options	COS request options.	Struct
bucket	Bucket name in the format of `BucketName-APPID` .	String
object	Object name.	String
snapshot_request	Request parameters for getting media screenshot.	Struct
time	Screenshot time point in seconds.	Float
width	Screenshot width. Default value: 0.	Int
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
format	Screenshot format. Valid values: jpg; png. Default value: jpg.	String
rotate	Image rotation method auto: Rotate automatically according to the video rotation information. off: Do not rotate. Default value: auto.	String
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
headers	COS request headers.	Struct
buffer	Returned screenshot content.	Struct
resp_headers	Returned HTTP response headers.	Struct

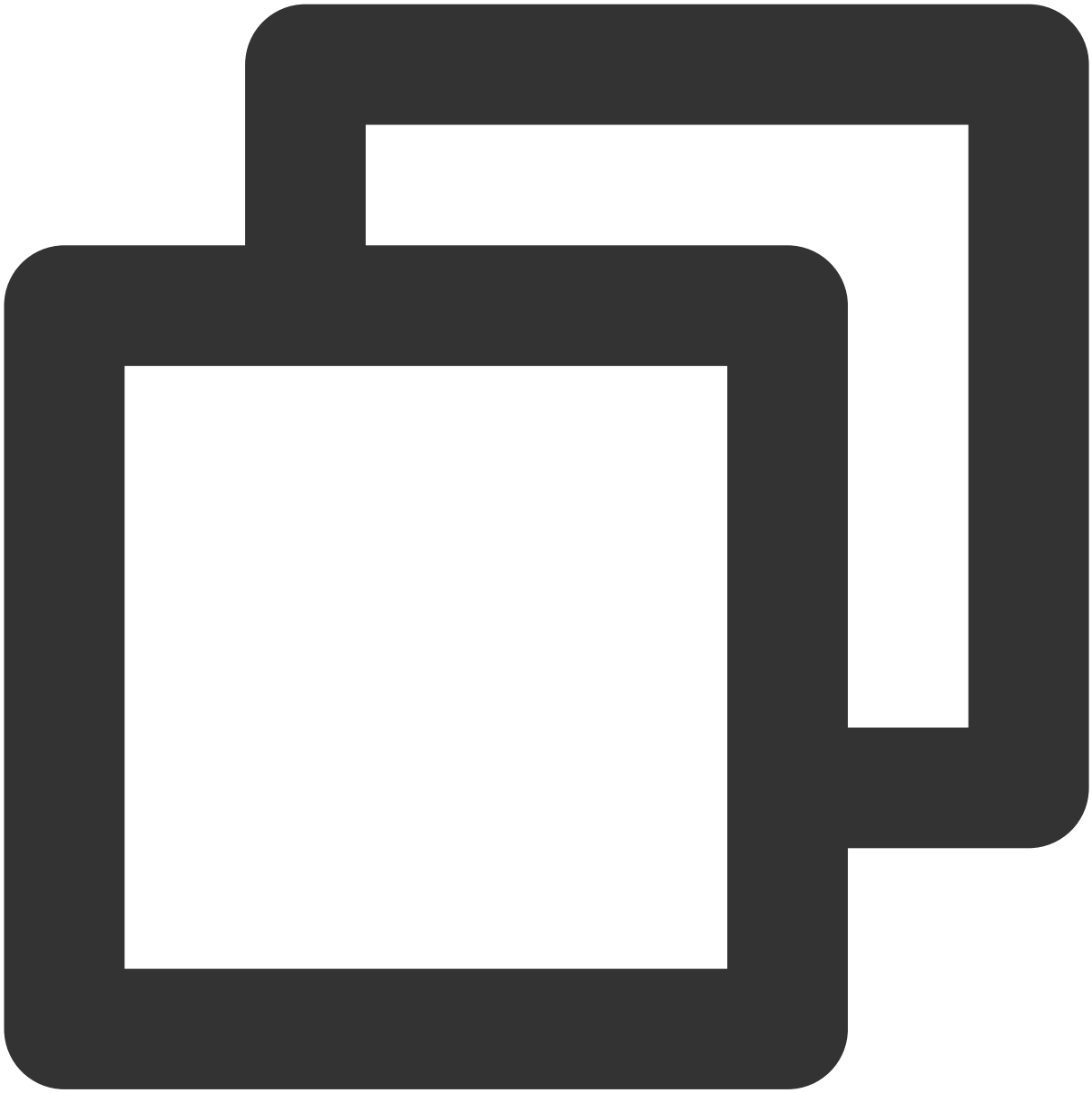
Response description

Response Parameter	Description	Type
code	Error code	Int
error_code	Error code	String
error_msg	Error message	String
req_id	Request message ID	String

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Sample

For the complete code, see the `test_ci_media_process_snapshot()` function in `cos_demo.c`.



```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"

// `endpoint` is the COS access domain name. For more information, visit https://in
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
```

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```
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void test_ci_media_process_snapshot()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_table_t *resp_headers;
    cos_list_t download_buffer;
    cos_string_t object;
    ci_get_snapshot_request_t *snapshot_request;

    // Basic configuration
    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    options->config = cos_config_create(options->pool);
    cos_str_set(&options->config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&options->config->appid, TEST_APPID);
    options->config->is_cname = is_cname;
    options->ctl = cos_http_controller_create(options->pool, 0);
    cos_str_set(&bucket, TEST_BUCKET_NAME);
    cos_str_set(&object, "test.mp4");

    // Use your own configuration. For more information, visit https://intl.cloud.t
    snapshot_request = ci_snapshot_request_create(p);
    snapshot_request->time = 7.5;
    snapshot_request->width = 0;
    snapshot_request->height = 0;
    cos_str_set(&snapshot_request->format, "jpg");
    cos_str_set(&snapshot_request->rotate, "auto");
    cos_str_set(&snapshot_request->mode, "exactframe");
```

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```
    cos_list_init(&download_buffer);

    s = ci_get_snapshot_to_buffer(options, &bucket, &object, snapshot_request, NULL
    log_status(s);

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_ci_media_process_snapshot();

    cos_http_io_deinitialize();

    return 0;
}
```

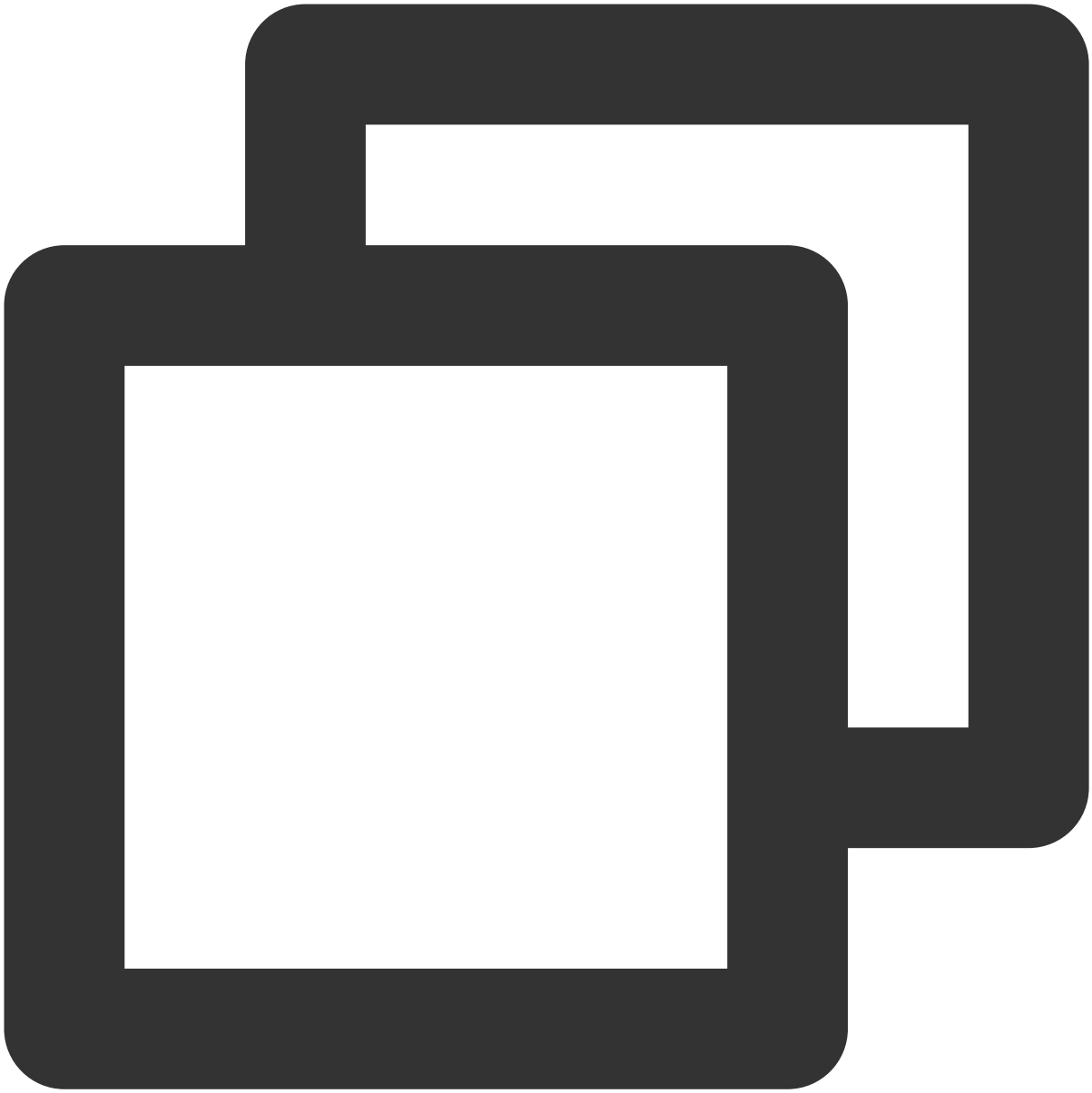
Querying Screenshot (File)

Feature description

This API is used to get a screenshot of a media file at some time point and put the screenshot information in a local file.

Method prototype

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```
cos_status_t *ci_get_snapshot_to_file(const cos_request_options_t *options,
                                      const cos_string_t *bucket,
                                      const cos_string_t *object,
                                      const ci_get_snapshot_request_t *snapshot_req
                                      cos_table_t *headers,
                                      cos_string_t *filename,
                                      cos_table_t **resp_headers);
```

Parameter description

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Parameter	Description	Type
options	COS request options.	Struct
bucket	Bucket name in the format of `BucketName-APPID` .	String
object	Object name.	String
snapshot_request	Request parameters for getting media screenshot.	Struct
time	Screenshot time point in seconds.	Float
width	Screenshot width. Default value: 0.	Int
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
format	Screenshot format. Valid values: jpg; png. Default value: jpg.	String
rotate	Image rotation method auto: Rotate automatically according to the video rotation information. off: Do not rotate. Default value: auto.	String
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
headers	COS request headers.	Struct
filename	Name of the file for storing screenshot information.	String
resp_headers	Returned HTTP response headers.	Struct

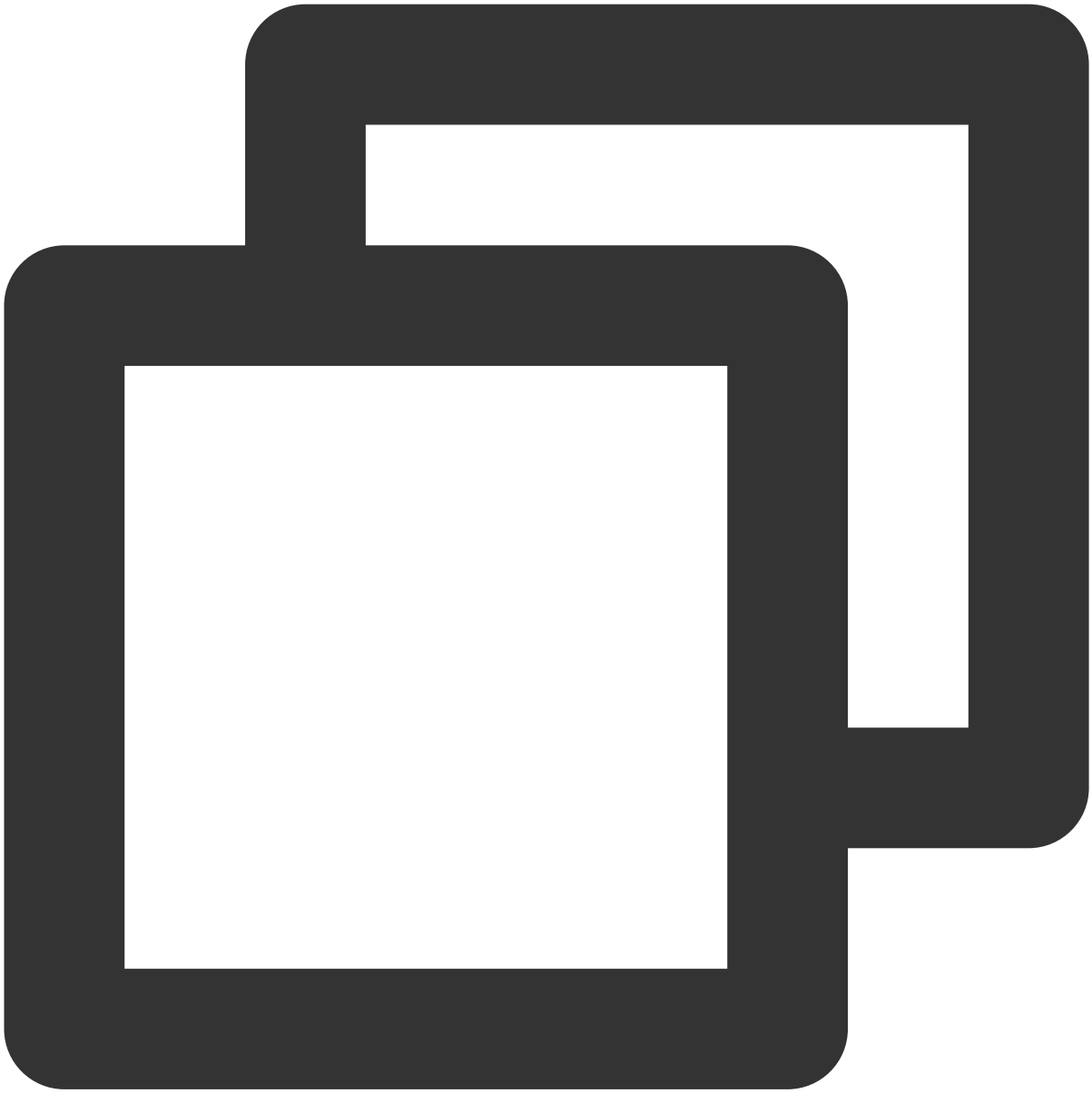
Response description

Response Parameter	Description	Type
code	Error code	Int
error_code	Error code	String
error_msg	Error message	String
req_id	Request message ID	String

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Sample

For the complete code, see the `test_ci_media_process_snapshot()` function in `cos_demo.c`.



```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <sys/stat.h>

// `endpoint` is the COS access domain name. For more information, visit https://in
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
```

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```
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void test_ci_media_process_snapshot()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_table_t *resp_headers;
    cos_string_t object;
    ci_get_snapshot_request_t *snapshot_request;
    cos_string_t pic_file = cos_string("snapshot.jpg");

    // Basic configuration
    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    options->config = cos_config_create(options->pool);
    cos_str_set(&options->config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&options->config->appid, TEST_APPID);
    options->config->is_cname = is_cname;
    options->ctl = cos_http_controller_create(options->pool, 0);
    cos_str_set(&bucket, TEST_BUCKET_NAME);
    cos_str_set(&object, "test.mp4");

    // Use your own configuration. For more information, visit https://intl.cloud.t
    snapshot_request = ci_snapshot_request_create(p);
    snapshot_request->time = 7.5;
    snapshot_request->width = 0;
    snapshot_request->height = 0;
    cos_str_set(&snapshot_request->format, "jpg");
    cos_str_set(&snapshot_request->rotate, "auto");
```

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```
    cos_str_set(&snapshot_request->mode, "exactframe");

    s = ci_get_snapshot_to_file(options, &bucket, &object, snapshot_request, NULL,
    log_status(s);

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_ci_media_process_snapshot();

    cos_http_io_deinitialize();

    return 0;
}
```

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Content Moderation
Video Moderation

Last updated：2024-02-29 16:06:23

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

API	Description
Submitting video moderation job	Submits video moderation job.
Querying video moderation job result	Queries the result of specified video moderation job.

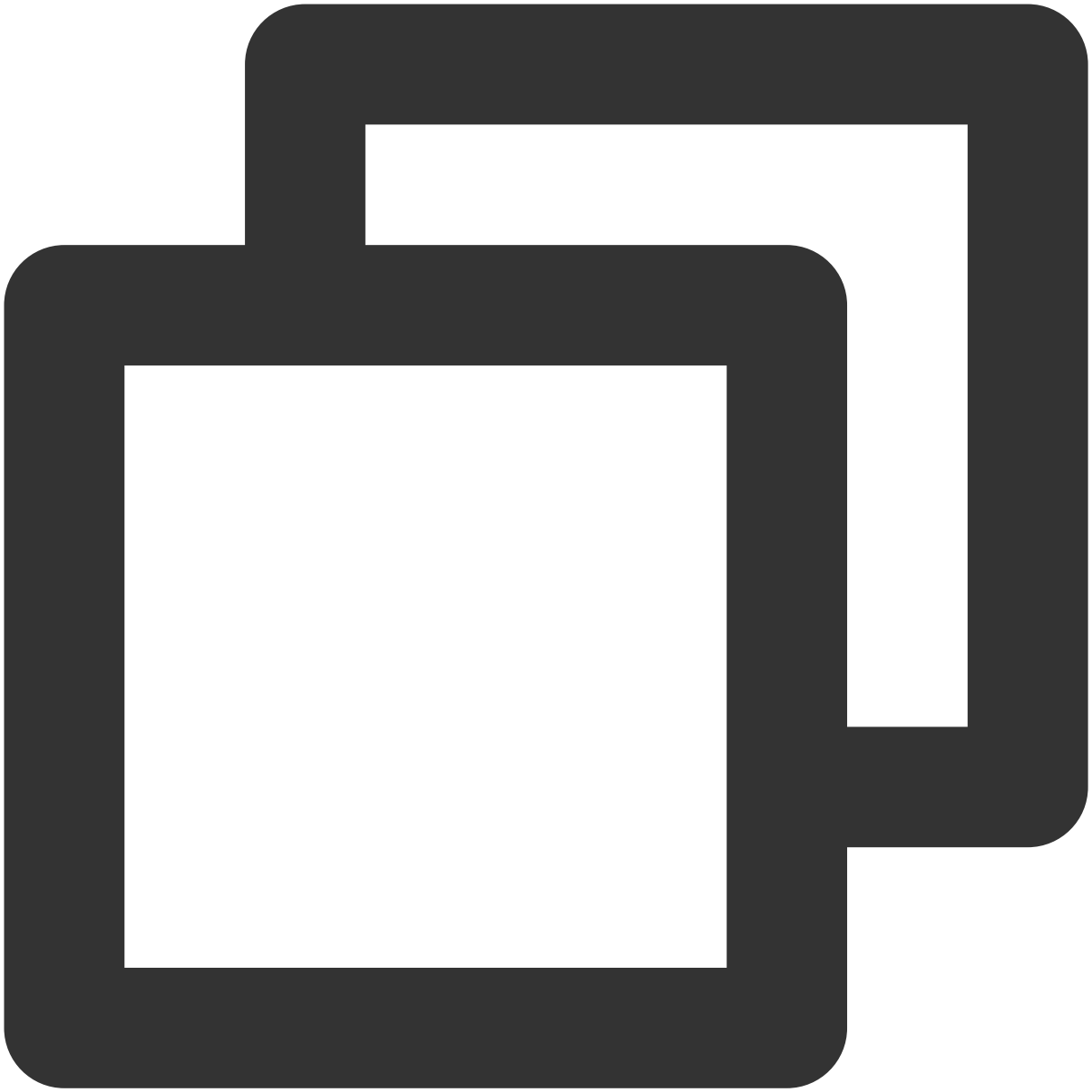
Submitting Video Moderation Job

Feature description

This API is used to submit a video moderation job.

Method prototype

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```
cos_status_t *ci_create_video_auditing_job(const cos_request_options_t *options,
                                           const cos_string_t *bucket,
                                           const ci_video_auditing_job_options_t *j
                                           cos_table_t *headers,
                                           cos_table_t **resp_headers,
                                           ci_video_auditing_job_result_t **job_res
```

Parameter description

Parameter	Description	Type

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options	COS request options	Struct
bucket	Bucket name in the format of `BucketName-APPID`. The bucket name entered here must be in this format.	String
job_options	Parameter configuration of the submitted video moderation job	Struct
input_object	Object name	String
detect_type	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads`.	String
callback	Callback address, which must start with `http://` or `https://`.	String
callback_version	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
biz_type	Moderation policy. If this parameter is not specified, the default policy will be used.	String
detect_content	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
snapshot	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.	Struct
mode	Frame capturing mode. Valid values: `Interval` (interval mode), `Average` (average mode), `Fps` (fixed frame rate mode). `Interval` mode: The `TimeInterval` and `Count` parameters take effect. If `Count` is set but `TimeInterval` is not, all frames will be captured to generate a total of `Count` images. `Average` mode: The `Count` parameter takes effect, indicating to capture a total of `Count` images at an average interval in the entire video. `Fps` mode: `TimeInterval` indicates how many frames to capture per second, and `Count` indicates how many frames to capture in total.	String
count	The number of captured frames. Value range: (0, 10000].	Integer
time_interval	Video frame capturing frequency. Value range: (0.000, 60.000] seconds. The value supports the float format, accurate to the millisecond.	Float
headers	COS request headers	Struct

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resp_headers	Returned HTTP response headers	Struct
job_result	Returned response to job submission	Struct
job_id	ID of the video moderation job	String
state	Status of the video moderation job. Valid values: `Submitted`, `Snapshoting`, `Success`, `Failed`, `Auditing`.	String
creation_time	Creation time of the video moderation job.	String

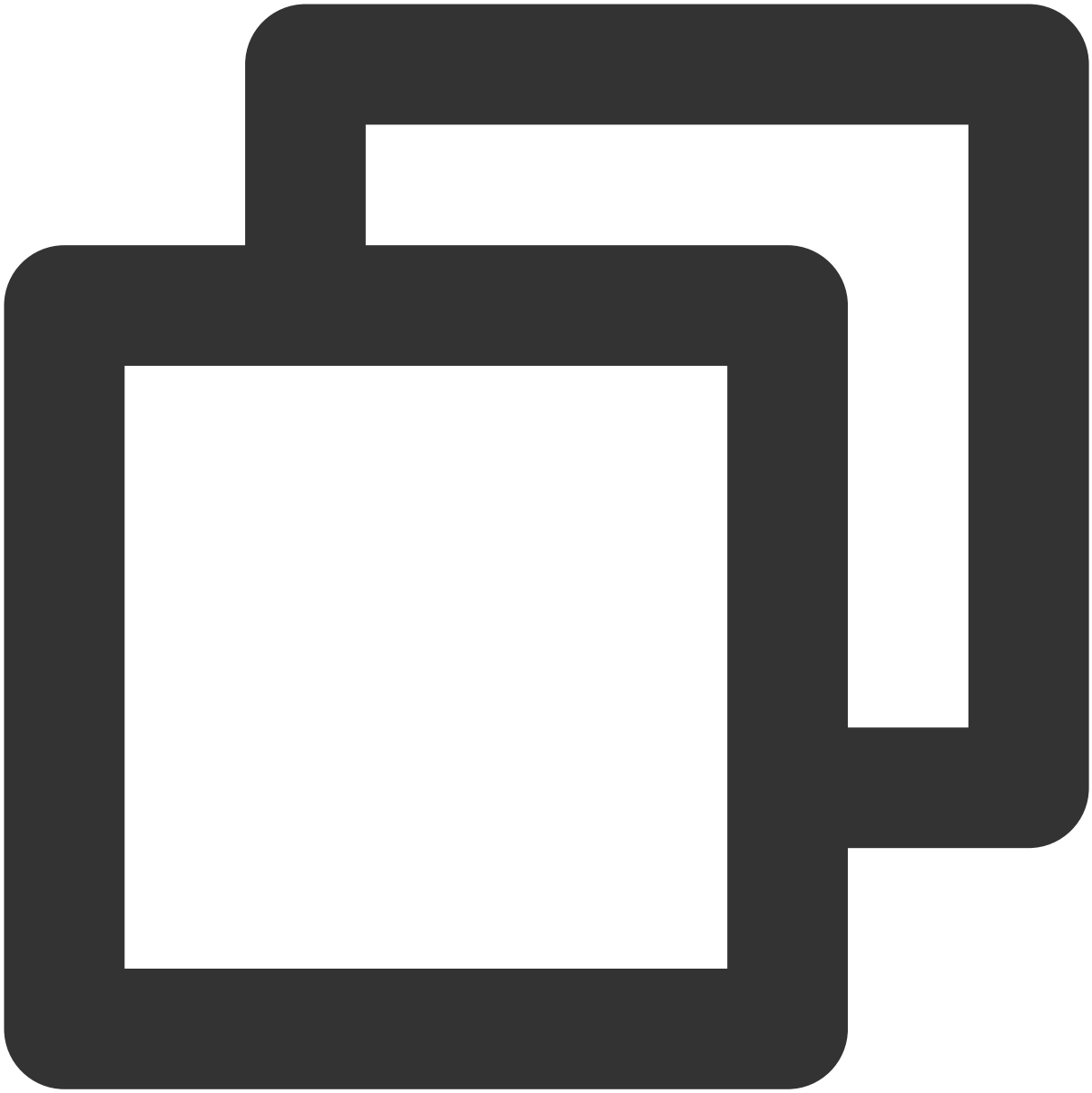
Response description

Returned Result	Description	Type
code	Error code	Int
error_code	Error code	String
error_msg	Error message	String
req_id	Request ID	String

Sample

For the complete code, see the `test_ci_video_auditing()` function in `cos_demo.c`.

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```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <sys/stat.h>

// CI endpoint. For more information, visit https://intl.cloud.tencent.com/document
static char TEST_CI_ENDPOINT[] = "https://ci.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
```

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```
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

static void log_video_auditing_result(ci_video_auditing_job_result_t *result)
{
    cos_warn_log("jobid: %s", result->jobs_detail.job_id.data);
    cos_warn_log("state: %s", result->jobs_detail.state.data);
    cos_warn_log("creation_time: %s", result->jobs_detail.creation_time.data);
}

void test_ci_create_video_auditing()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_table_t *resp_headers;
    ci_video_auditing_job_options_t *job_options;
    ci_video_auditing_job_result_t *job_result;

    // Basic configuration
    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    options->config = cos_config_create(options->pool);
    cos_str_set(&options->config->endpoint, TEST_CI_ENDPOINT);     // https://ci.<R
    cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&options->config->appid, TEST_APPID);
    options->config->is_cname = is_cname;
    options->ctl = cos_http_controller_create(options->pool, 0);
    cos_str_set(&bucket, TEST_BUCKET_NAME);

    // Replace with your configuration information. For more information, visit htt
    job_options = ci_video_auditing_job_options_create(p);
    cos_str_set(&job_options->input_object, "test.mp4");
    cos_str_set(&job_options->job_conf.detect_type, "Porn,Ads");
    cos_str_set(&job_options->job_conf.callback_version, "Detail");
```

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```
    job_options->job_conf.detect_content = 1;
    cos_str_set(&job_options->job_conf.snapshot.mode, "Interval");
    job_options->job_conf.snapshot.time_interval = 1.5;
    job_options->job_conf.snapshot.count = 10;

    // Submit a video moderation job
    s = ci_create_video_auditing_job(options, &bucket, job_options, NULL, &resp_hea
    log_status(s);
    if (s->code == 200) {
        log_video_auditing_result(job_result);
    }

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_ci_create_video_auditing();

    cos_http_io_deinitialize();

    return 0;
}
```

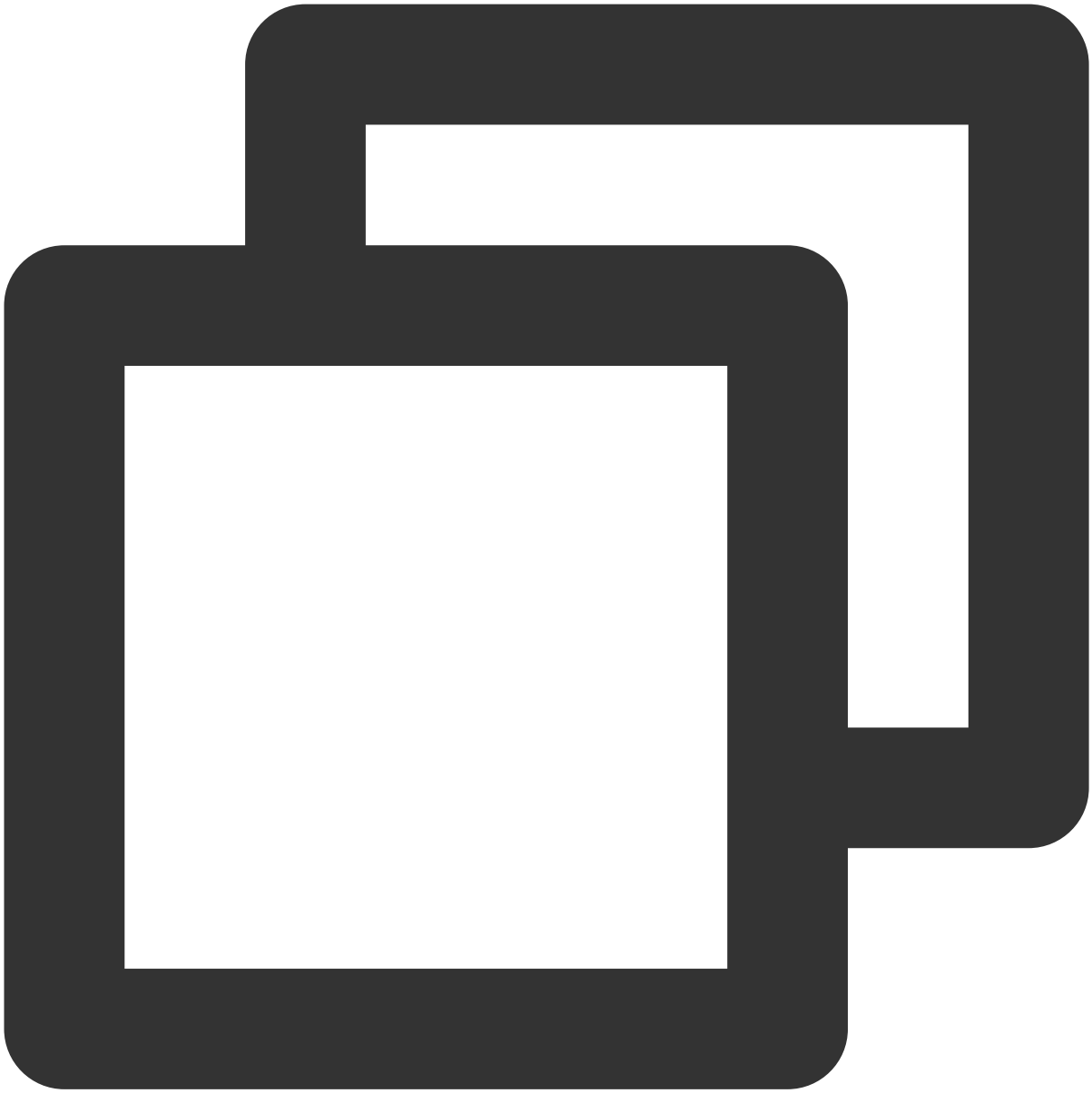
Querying Video Moderation Job

Feature description

This API is used to query the status and result of a video moderation job.

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Method prototype



```
cos_status_t *ci_get_auditing_job(const cos_request_options_t *options,
                                  const cos_string_t *bucket,
                                  const cos_string_t *job_id,
                                  cos_table_t *headers,
                                  cos_table_t **resp_headers,
                                  ci_auditing_job_result_t **job_result);
```

Parameter description

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Parameter	Description	Type
options	COS request options	Struct
bucket	Bucket name in the format of `BucketName-APPID`. The bucket name entered here must be in this format.	String
job_id	ID of the video moderation job	String
headers	COS request headers	Struct
resp_headers	Returned HTTP response headers	Struct
job_result	Returned response to job query	Struct
nonexist_job_ids	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String
jobs_detail	Details of the video moderation job	Struct
code	Error code, which will be returned only if `State` is `Failed`.	String
message	Error message, which will be returned only if `State` is `Failed`.	String
job_id	ID of the video moderation job	String
state	Status of the video moderation job. Valid values: `Submitted`, `Snapshoting`, `Success`, `Failed`, `Auditing`.	String
creation_time	Creation time of the video moderation job.	String
object	Name of the video file to be moderated	String
snapshot_count	Total number of video screenshot	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
porn_info	The moderation result of the pornographic information moderation scene.	Struct
ads_info	The moderation result of the advertising information moderation scene.	Struct
hit_flag	Whether the moderation type is hit. Valid values: `0` (miss), `1` (hit), and `2` (suspected).	Integer

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count	The number of screenshots that hit this moderation scene.	Integer
snapshot_info_list	This field is used to return the screenshot moderation result of the video. Note: Each URL is valid for two hours. If you need to view the data after two hours, initiate a new query request.	Struct
audio_section_info_list	This field is used to return the audio moderation result of the video. Note: Each URL is valid for two hours. If you need to view the data after two hours, initiate a new query request.	Struct

`snapshot_info_list` structure description

Parameter	Description	Type
url	URL of the current video screenshot, at which you can view the screenshot. It must be a standard URL.	String
snapshot_time	This field is used to return the time where the current screenshot is in the entire video in milliseconds, such as 5000 (i.e., 5000 milliseconds after the video starts).	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. Up to 5,000 bytes can be recognized.	String
porn_info	The moderation result of the pornographic information moderation scene.	Struct
ads_info	The moderation result of the advertising information moderation scene.	Struct
hit_flag	Whether the moderation type is hit. Valid values: `0` (miss), `1` (hit), and `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
label	This field indicates the result tag of the screenshot, which may be `SubLabel`, a person name, etc. It is a reserved field for compatibility with legacy versions.	String
sub_lable	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

`audio_section_info_list` structure description

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Parameter	Description	Type
url	URL of the current audio segment of the video, at which you can get the content of the audio segment. It must be a standard URL.	String
text	This field is used to return the ASR text recognition result of the audio of the current video. It will be returned only if text content detection is enabled in the moderation policy. Up to 5 hours of content can be recognized.	String
offset_time	This field is used to return the time where the current audio segment is in the entire video in milliseconds, such as 5000 (i.e., 5000 milliseconds after the video starts).	Integer
duration	The duration of the current video sound segment in milliseconds.	Integer
porn_info	The moderation result of the pornographic information moderation scene.	Struct
ads_info	The moderation result of the advertising information moderation scene.	Struct
hit_flag	Whether the moderation type is hit. Valid values: `0` (miss), `1` (hit), and `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
key_words	Keywords hit by the current moderation scene.	String

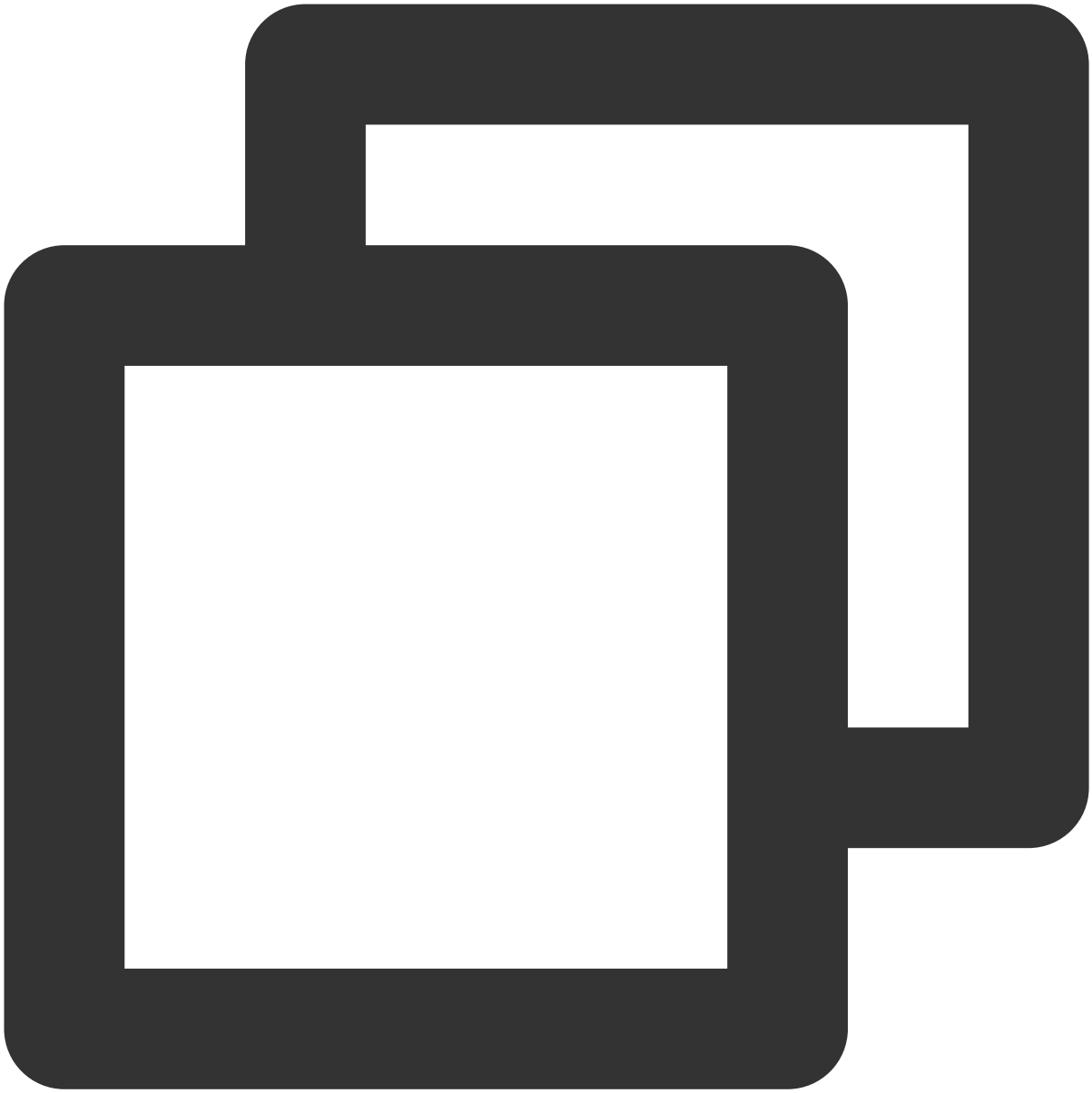
Response description

Returned Result	Description	Type
code	Error code	Int
error_code	Error code	String
error_msg	Error message	String
req_id	Request ID	String

Sample

For the complete code, see the `test_ci_video_auditing()` function in `cos_demo.c`.

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```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <unistd.h>

// CI endpoint. For more information, visit https://intl.cloud.tencent.com/document
static char TEST_CI_ENDPOINT[] = "https://ci.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
```

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```
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

static void log_get_auditing_result(ci_auditing_job_result_t *result)
{
    int index = 0;
    ci_auditing_snapshot_result_t *snapshot_info;
    ci_auditing_audio_section_result_t *audio_section_info;

    cos_warn_log("nonexist_job_ids: %s", result->nonexist_job_ids.data);
    cos_warn_log("code: %s", result->jobs_detail.code.data);
    cos_warn_log("message: %s", result->jobs_detail.message.data);
    cos_warn_log("state: %s", result->jobs_detail.state.data);
    cos_warn_log("creation_time: %s", result->jobs_detail.creation_time.data);
    cos_warn_log("object: %s", result->jobs_detail.object.data);
    cos_warn_log("snapshot_count: %s", result->jobs_detail.snapshot_count.data);
    cos_warn_log("result: %d", result->jobs_detail.result);

    cos_warn_log("porn_info.hit_flag: %d", result->jobs_detail.porn_info.hit_flag);
    cos_warn_log("porn_info.count: %d", result->jobs_detail.porn_info.count);
    cos_warn_log("ads_info.hit_flag: %d", result->jobs_detail.ads_info.hit_flag);
    cos_warn_log("ads_info.count: %d", result->jobs_detail.ads_info.count);

    cos_list_for_each_entry(ci_auditing_snapshot_result_t, snapshot_info, &result->
        cos_warn_log("snapshot index:%d", ++index);
        cos_warn_log("snapshot_info->url: %s", snapshot_info->url.data);
        cos_warn_log("snapshot_info->snapshot_time: %d", snapshot_info->snapshot_ti
        cos_warn_log("snapshot_info->text: %s", snapshot_info->text.data);

        cos_warn_log("snapshot_info->porn_info.hit_flag: %d", snapshot_info->porn_i
        cos_warn_log("snapshot_info->porn_info.score: %d", snapshot_info->porn_info
        cos_warn_log("snapshot_info->porn_info.label: %s", snapshot_info->porn_info
        cos_warn_log("snapshot_info->porn_info.sub_lable: %s", snapshot_info->porn_
        cos_warn_log("snapshot_info->ads_info.hit_flag: %d", snapshot_info->ads_inf
        cos_warn_log("snapshot_info->ads_info.score: %d", snapshot_info->ads_info.s
        cos_warn_log("snapshot_info->ads_info.label: %s", snapshot_info->ads_info.l
        cos_warn_log("snapshot_info->ads_info.sub_lable: %s", snapshot_info->ads_in
    }
```

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```
    index = 0;
    cos_list_for_each_entry(ci_auditing_audio_section_result_t, audio_section_info,
        cos_warn_log("audio_section index:%d", ++index);
        cos_warn_log("audio_section_info->url: %s", audio_section_info->url.data);
        cos_warn_log("audio_section_info->text: %s", audio_section_info->text.data)
        cos_warn_log("audio_section_info->offset_time: %d", audio_section_info->off
        cos_warn_log("audio_section_info->duration: %d", audio_section_info->durati

        cos_warn_log("audio_section_info->porn_info.hit_flag: %d", audio_section_in
        cos_warn_log("audio_section_info->porn_info.score: %d", audio_section_info-
        cos_warn_log("audio_section_info->porn_info.key_words: %s", audio_section_i
        cos_warn_log("audio_section_info->ads_info.hit_flag: %d", audio_section_inf
        cos_warn_log("audio_section_info->ads_info.score: %d", audio_section_info->
        cos_warn_log("audio_section_info->ads_info.key_words: %s", audio_section_in
    }
}

void test_ci_get_video_auditing()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_table_t *resp_headers;
    ci_video_auditing_job_options_t *job_options;
    ci_video_auditing_job_result_t *job_result;
    ci_auditing_job_result_t *auditing_result;

    // Basic configuration
    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    options->config = cos_config_create(options->pool);
    cos_str_set(&options->config->endpoint, TEST_CI_ENDPOINT);     // https://ci.<R
    cos_str_set(&options->config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&options->config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&options->config->appid, TEST_APPID);
    options->config->is_cname = is_cname;
    options->ctl = cos_http_controller_create(options->pool, 0);
    cos_str_set(&bucket, TEST_BUCKET_NAME);

    // Replace with your configuration information. For more information, visit htt
    job_options = ci_video_auditing_job_options_create(p);
    cos_str_set(&job_options->input_object, "test.mp4");
    cos_str_set(&job_options->job_conf.detect_type, "Porn,Ads");
    cos_str_set(&job_options->job_conf.callback_version, "Detail");
```

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```
    job_options->job_conf.detect_content = 1;
    cos_str_set(&job_options->job_conf.snapshot.mode, "Interval");
    job_options->job_conf.snapshot.time_interval = 1.5;
    job_options->job_conf.snapshot.count = 10;

    // Submit a video moderation job
    s = ci_create_video_auditing_job(options, &bucket, job_options, NULL, &resp_hea
    log_status(s);

    // Wait for the video moderation job to complete. You can modify the wait time
    sleep(300);

    // Get the moderation job result
    s = ci_get_auditing_job(options, &bucket, &job_result->jobs_detail.job_id, NULL
    log_status(s);
    if (s->code == 200) {
        log_get_auditing_result(auditing_result);
    }

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_ci_get_video_auditing();

    cos_http_io_deinitialize();

    return 0;
}
```

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Content Recognition
QR Code Recognition

Last updated：2024-02-29 16:06:23

Overview

This document provides an overview of APIs and SDK code samples for image QR codes.

API	Description
QR code recognition	Recognizes the location and content of valid QR codes in an image, outputs the text information (URL or text) contained in the QR codes, and pixelates the recognized QR codes.

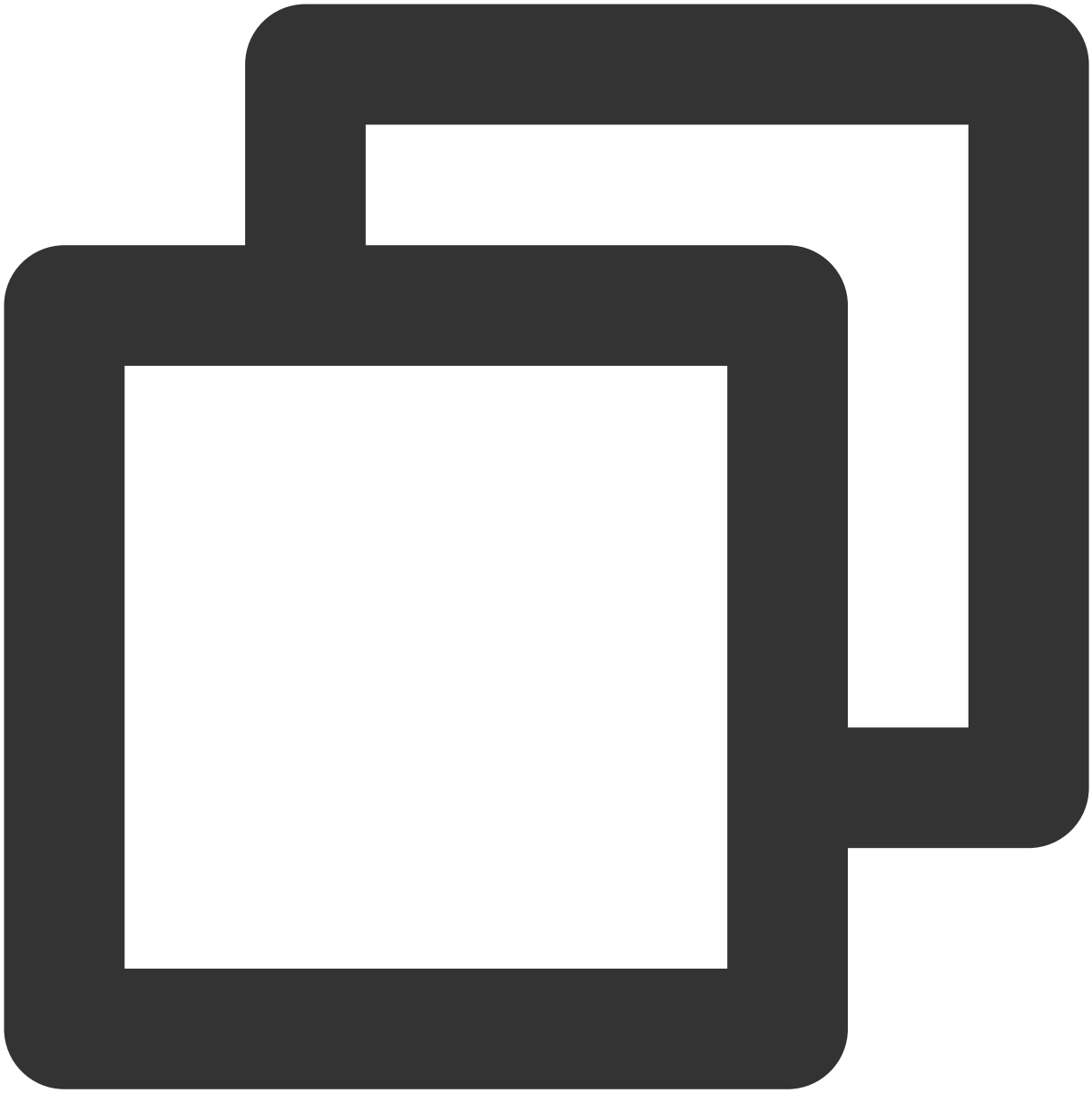
QR Code Recognition

The QR code recognition feature recognizes the location and content of valid QR codes in an image, outputs the text information (URL or text) contained in the QR codes, and pixelates the recognized QR codes.

Recognizing during upload

Method prototype

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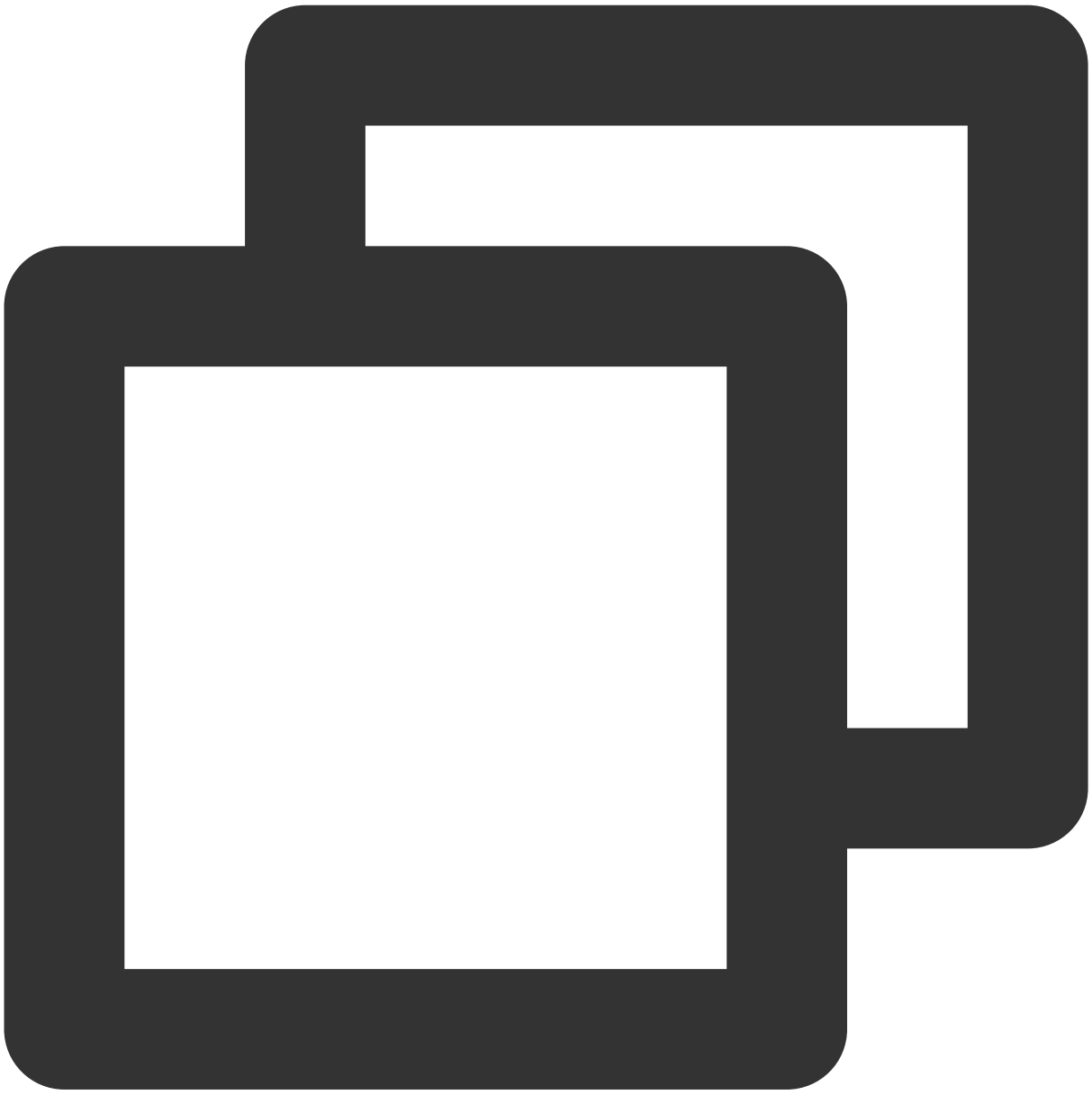
```
cos_status_t *ci_put_object_from_file(const cos_request_options_t *options,
                                      const cos_string_t *bucket,
                                      const cos_string_t *object,
                                      const cos_string_t *filename,
                                      cos_table_t *headers,
                                      cos_table_t **resp_headers,
                                      ci_operation_result_t **results)
```

Feature description

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The request for recognizing QR codes during image upload is the same as that used to simply upload a file to COS, except that you need to add the image processing parameter `Pic-Operations` to the request header.

Sample request



```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <unistd.h>

// `endpoint` is the COS access domain name. For more information, visit https://cl
```

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```
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// CI endpoint. For more information, visit https://cloud.tencent.com/document/prod
static char TEST_CI_ENDPOINT[] = "https://ci.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void init_test_config(cos_config_t *config, int is_cname)
{
    cos_str_set(&config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&config->appid, TEST_APPID);
    config->is_cname = is_cname;
}

void init_test_request_options(cos_request_options_t *options, int is_cname)
{
    options->config = cos_config_create(options->pool);
    init_test_config(options->config, is_cname);
    options->ctl = cos_http_controller_create(options->pool, 0);
}

void test_ci_image_qrcode()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_string_t object;
    cos_string_t file;
    cos_table_t *resp_headers;
    cos_table_t *headers = NULL;
    ci_operation_result_t *results = NULL;
```

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```
    ci_qrcode_info_t *content = NULL;

    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    init_test_request_options(options, is_cname);
    cos_str_set(&bucket, TEST_BUCKET_NAME);
    cos_str_set(&object, "test.jpg");

    headers = cos_table_make(p, 1);
    apr_table_addn(headers, "pic-operations", "{\\"is_pic_info\\":1,\\"rules\\":[{\
    // Recognize during upload
    cos_str_set(&file, "test.jpg");
    cos_str_set(&object, "test.jpg");
    s = ci_put_object_from_file(options, &bucket, &object, &file, headers, &resp_he
    log_status(s);
    if (!cos_status_is_ok(s)) {
        printf("put object failed\\n");
    }
    printf("CodeStatus: %d\\n", results->object.code_status);
    cos_list_for_each_entry(ci_qrcode_info_t, content, &results->object.qrcode_info
        printf("CodeUrl: %s\\n", content->code_url.data);
        printf("Point: %s\\n", content->point[0].data);
        printf("Point: %s\\n", content->point[1].data);
        printf("Point: %s\\n", content->point[2].data);
        printf("Point: %s\\n", content->point[3].data);
    }

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);
```

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```
    test_ci_image_qrcode();

    cos_http_io_deinitialize();

    return 0;
}
```

Parameter description

Parameter	Description	Type
options	COS request options	Struct
bucket	Bucket name in the format of `BucketName-APPID`	String
object	Object name	String
filename	Filename of the local object	String
headers	COS request headers	Struct
resp_headers	Returned HTTP response headers	Struct
results	Processing result of the in-cloud data	Struct

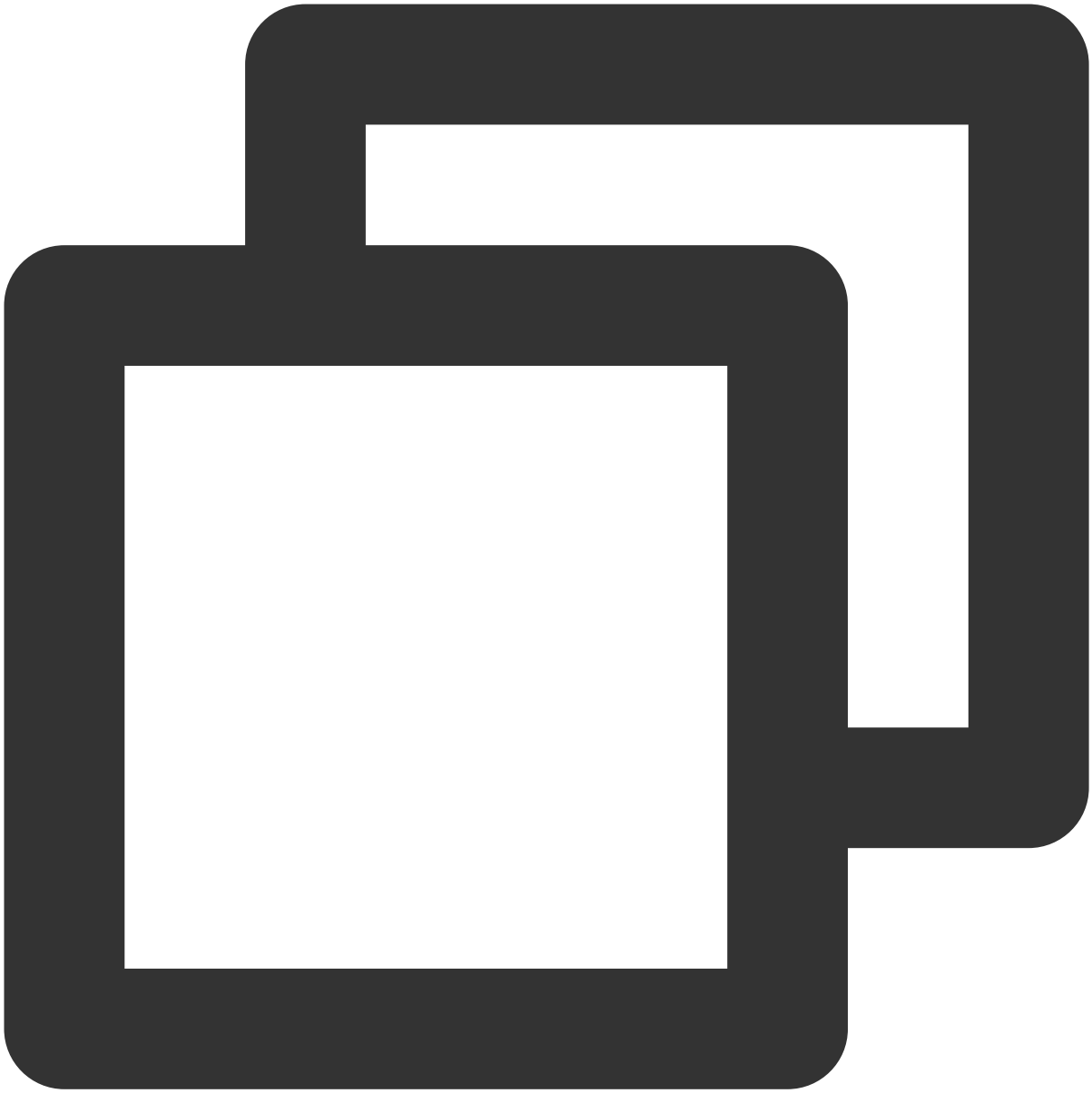
Recognizing during download

Feature description

This feature recognizes QR codes during file download.

Method prototype

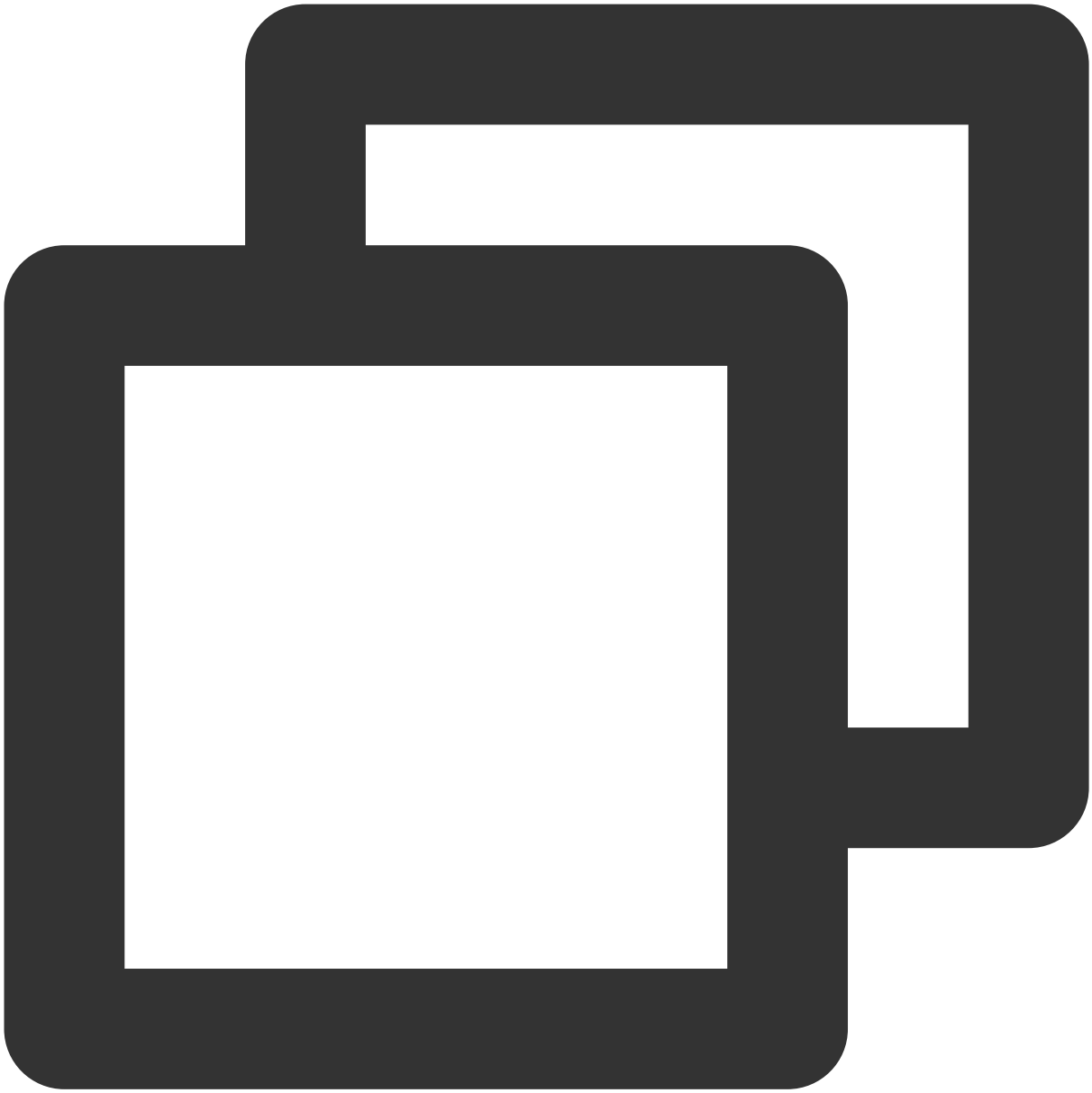
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```
cos_status_t *ci_get_qrcode(const cos_request_options_t *options,
                            const cos_string_t *bucket,
                            const cos_string_t *object,
                            int cover,
                            cos_table_t *headers,
                            cos_table_t *query_params,
                            cos_table_t **resp_headers,
                            ci_qrcode_result_t **results)
```

Sample request

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```
#include "cos_http_io.h"
#include "cos_api.h"
#include "cos_log.h"
#include <unistd.h>

// `endpoint` is the COS access domain name. For more information, visit https://cl
static char TEST_COS_ENDPOINT[] = "cos.ap-guangzhou.myqcloud.com";
// CI endpoint. For more information, visit https://cloud.tencent.com/document/prod
static char TEST_CI_ENDPOINT[] = "https://ci.ap-guangzhou.myqcloud.com";
// A developer-owned secret ID/key used for the project. It can be obtained at http
static char *TEST_ACCESS_KEY_ID;                //your secret_id
```

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```
static char *TEST_ACCESS_KEY_SECRET;            //your secret_key
// A unique user-level resource identifier for COS access. It can be obtained at ht
static char TEST_APPID[] = "<APPID>";    //your appid
// COS bucket name in the format of [bucket]-[appid], for example, `mybucket-125366
static char TEST_BUCKET_NAME[] = "<bucketname-appid>";

void log_status(cos_status_t *s)
{
    cos_warn_log("status->code: %d", s->code);
    if (s->error_code) cos_warn_log("status->error_code: %s", s->error_code);
    if (s->error_msg) cos_warn_log("status->error_msg: %s", s->error_msg);
    if (s->req_id) cos_warn_log("status->req_id: %s", s->req_id);
}

void init_test_config(cos_config_t *config, int is_cname)
{
    cos_str_set(&config->endpoint, TEST_COS_ENDPOINT);
    cos_str_set(&config->access_key_id, TEST_ACCESS_KEY_ID);
    cos_str_set(&config->access_key_secret, TEST_ACCESS_KEY_SECRET);
    cos_str_set(&config->appid, TEST_APPID);
    config->is_cname = is_cname;
}

void init_test_request_options(cos_request_options_t *options, int is_cname)
{
    options->config = cos_config_create(options->pool);
    init_test_config(options->config, is_cname);
    options->ctl = cos_http_controller_create(options->pool, 0);
}

void test_ci_get_image_qrcode()
{
    cos_pool_t *p = NULL;
    int is_cname = 0;
    cos_status_t *s = NULL;
    cos_request_options_t *options = NULL;
    cos_string_t bucket;
    cos_string_t object;
    cos_table_t *resp_headers;
    ci_qrcode_info_t *content = NULL;
    ci_qrcode_result_t *result2 = NULL;

    cos_pool_create(&p, NULL);
    options = cos_request_options_create(p);
    init_test_request_options(options, is_cname);
    cos_str_set(&bucket, TEST_BUCKET_NAME);
    cos_str_set(&object, "test.jpg");
```

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```
    // Recognize during download
    s = ci_get_qrcode(options, &bucket, &object, 1, NULL, NULL, &resp_headers, &res
    log_status(s);
    if (!cos_status_is_ok(s)) {
        printf("get object failed\\n");
    }
    printf("CodeStatus: %d\\n", result2->code_status);
    cos_list_for_each_entry(ci_qrcode_info_t, content, &result2->qrcode_info, node)
        printf("CodeUrl: %s\\n", content->code_url.data);
        printf("Point: %s\\n", content->point[0].data);
        printf("Point: %s\\n", content->point[1].data);
        printf("Point: %s\\n", content->point[2].data);
        printf("Point: %s\\n", content->point[3].data);
    }
    printf("ImageResult: %s\\n", result2->result_image.data);

    // Terminate the memory pool
    cos_pool_destroy(p);
}

int main(int argc, char *argv[])
{
    // Get `SECRETID` and `SECRETKEY` from environment variables
    TEST_ACCESS_KEY_ID     = getenv("COS_SECRETID");
    TEST_ACCESS_KEY_SECRET = getenv("COS_SECRETKEY");

    if (cos_http_io_initialize(NULL, 0) != COSE_OK) {
       exit(1);
    }

    //set log level, default COS_LOG_WARN
    cos_log_set_level(COS_LOG_WARN);

    //set log output, default stderr
    cos_log_set_output(NULL);

    test_ci_get_image_qrcode();

    cos_http_io_deinitialize();

    return 0;
}
```

Parameter description

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Parameter	Description	Type
options	COS request options	Struct
bucket	Bucket name in the format of `BucketName-APPID`. The bucket name entered here must be in this format.	string
object	Object name	string
cover	Pixelates the recognized QR code. Valid values: 0 (no), 1 (yes).	int
headers	COS request headers	Struct
query_params	COS request operation parameters	Struct
resp_headers	Returned HTTP response headers	Struct
results	Recognized QR code	Struct

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C++ SDK
Getting Started

Last updated：2024-02-29 16:13:43

Download and Installation

Related resources

Download the COS XML C++ SDK source code below:

Linux/Windows/macOS: XML Linux C++ SDK

Download the XML C++ SDK.

Download the demo here.

For the SDK changelog, see Changelog.

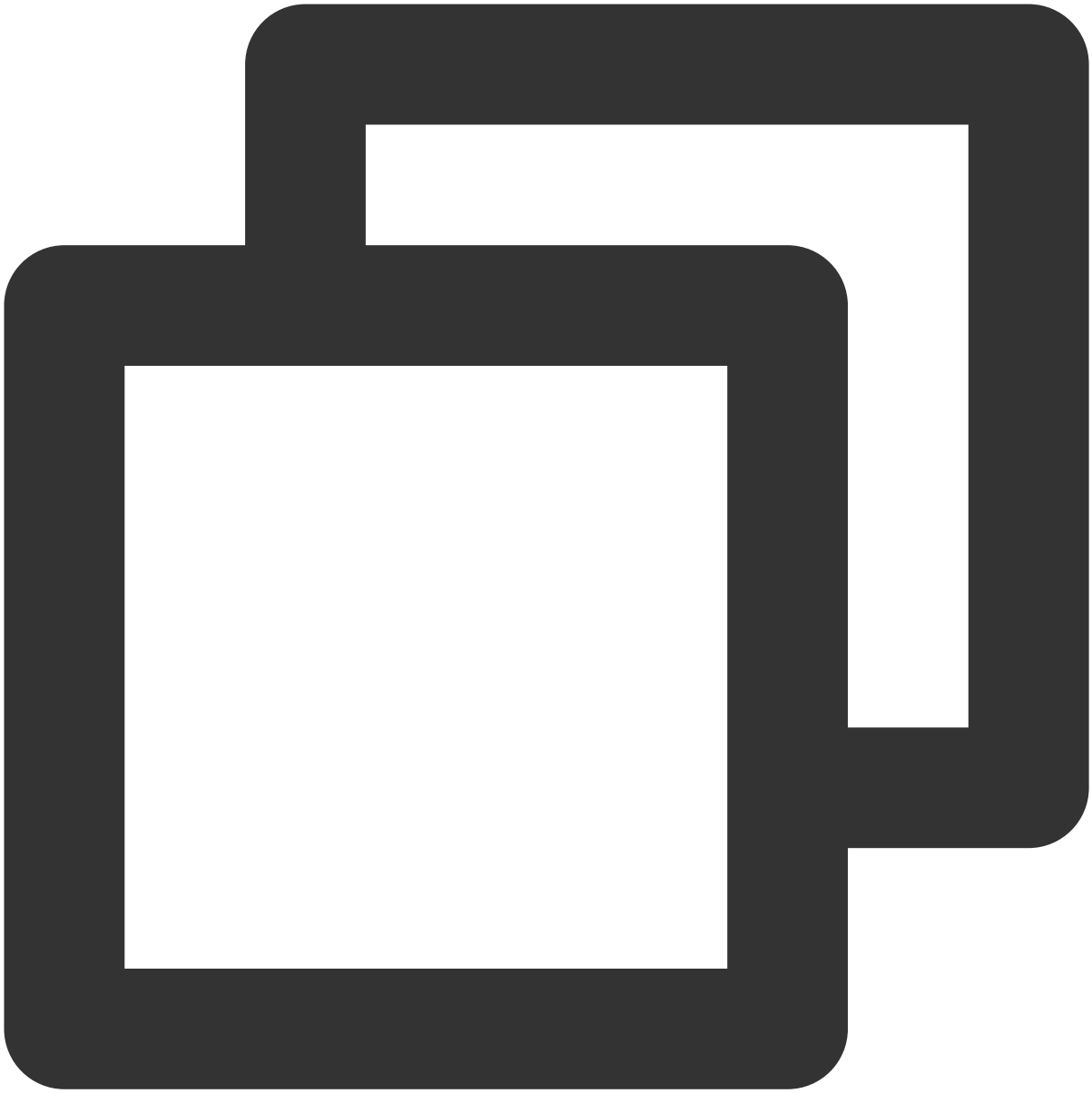
Note:

If you encounter errors such as non-existent functions or methods when using the XML version of the SDK, update the SDK to the latest version and try again.

Precompilation (Recommended)

Download the XML C++ SDK source code. In the `libs` directory, you can find the ready-to-use precompiled libraries. Choose the one that suits your system version.

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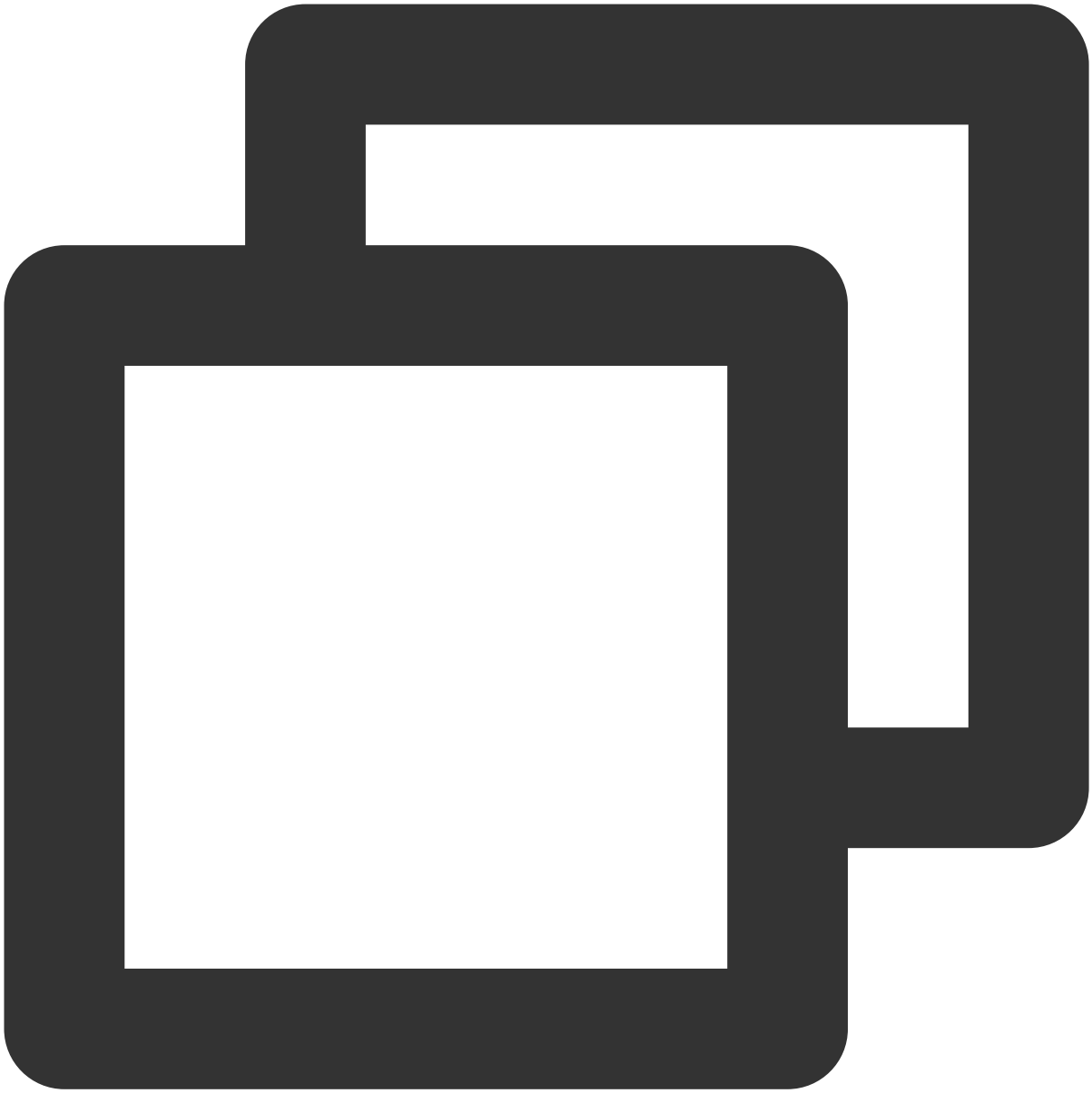
```
libs/linux/libcossdk.a # Linux static library. `libcossdk.a` is compiled based on G
libs/linux/libcossdk-shared.so # Linux dynamic library
libs/Win32/cossdk.lib # Windows 32-bit library
libs/x64/cossdk.lib # Windows 64-bit library
libs/macOS/libcossdk.a # macOS static library
libs/macOS/libcossdk-shared.dylib # macOS dynamic library
```

Note:

Copy the libraries and SDK `include` files for your OS to your project.

The following third-party dependent libraries can be found in the `Third-party` directory:

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```
third_party/lib/linux/poco/ # Linux-dependent POCO dynamic library. The POCO librar
third_party/lib/Win32/openssl/ # Windows 32-bit-dependent OpenSSL library
third_party/lib/Win32/poco/ # Windows 32-bit-dependent POCO library
third_party/lib/x64/openssl/ # Windows 64-bit-dependent OpenSSL library
third_party/lib/x64/poco/ # Windows 64-bit-dependent POCO library
third_party/lib/macOS/poco/ # macOS-dependent POCO library
```

Note:

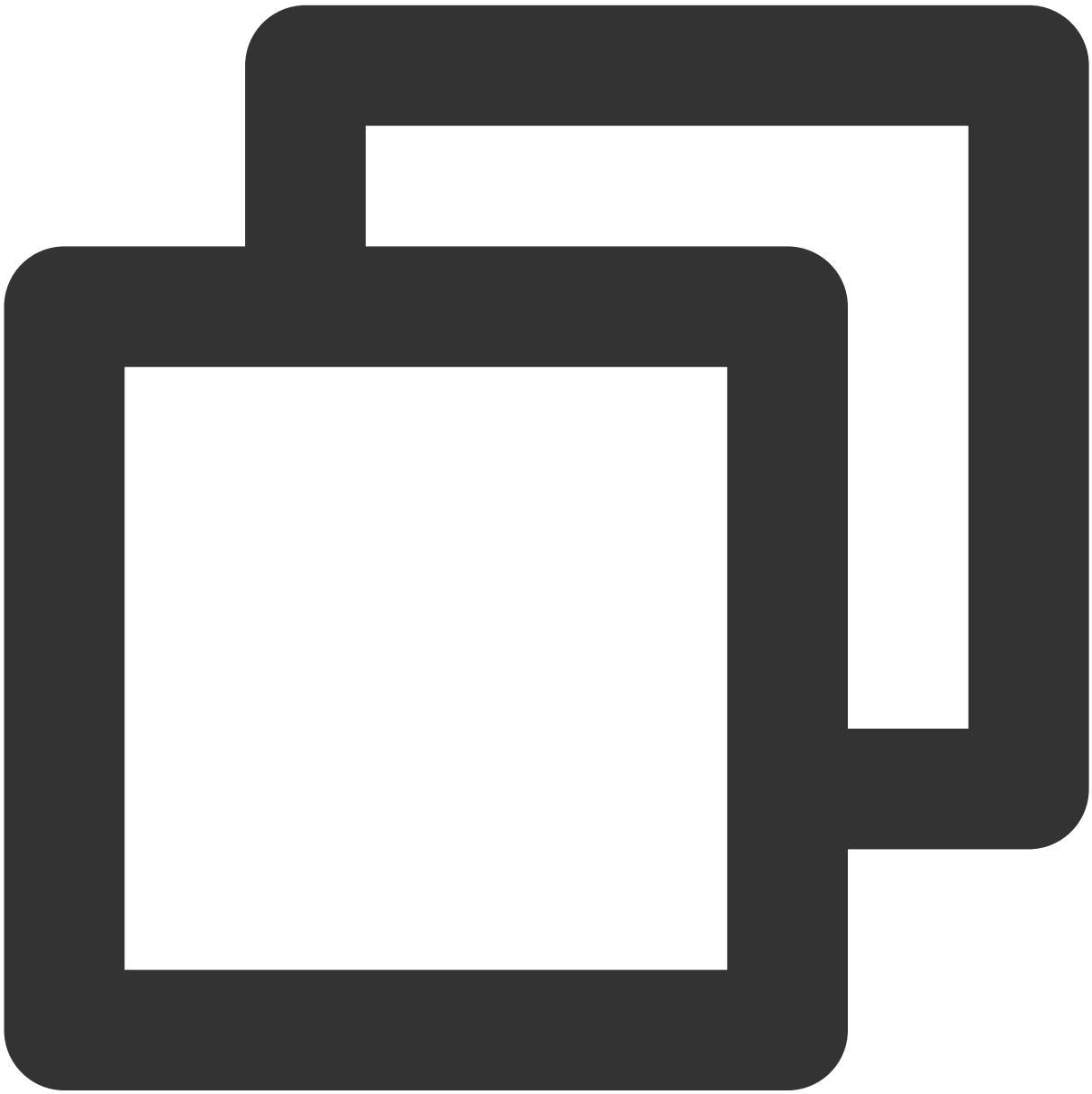
Copy the dependent libraries for your OS to your project.

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Manual Compilation

Compilation options

You can configure the following compilation options by using the `CMakeLists.txt` file in the root directory:



```
option(BUILD_UNITTEST "Build unittest" OFF) # Configure unit testing compilation
option(BUILD_DEMO "Build demo" ON) # Configure demo testing code compilation
option(BUILD_SHARED_LIB "Build shared library" OFF) # Configure dynamic library com
```

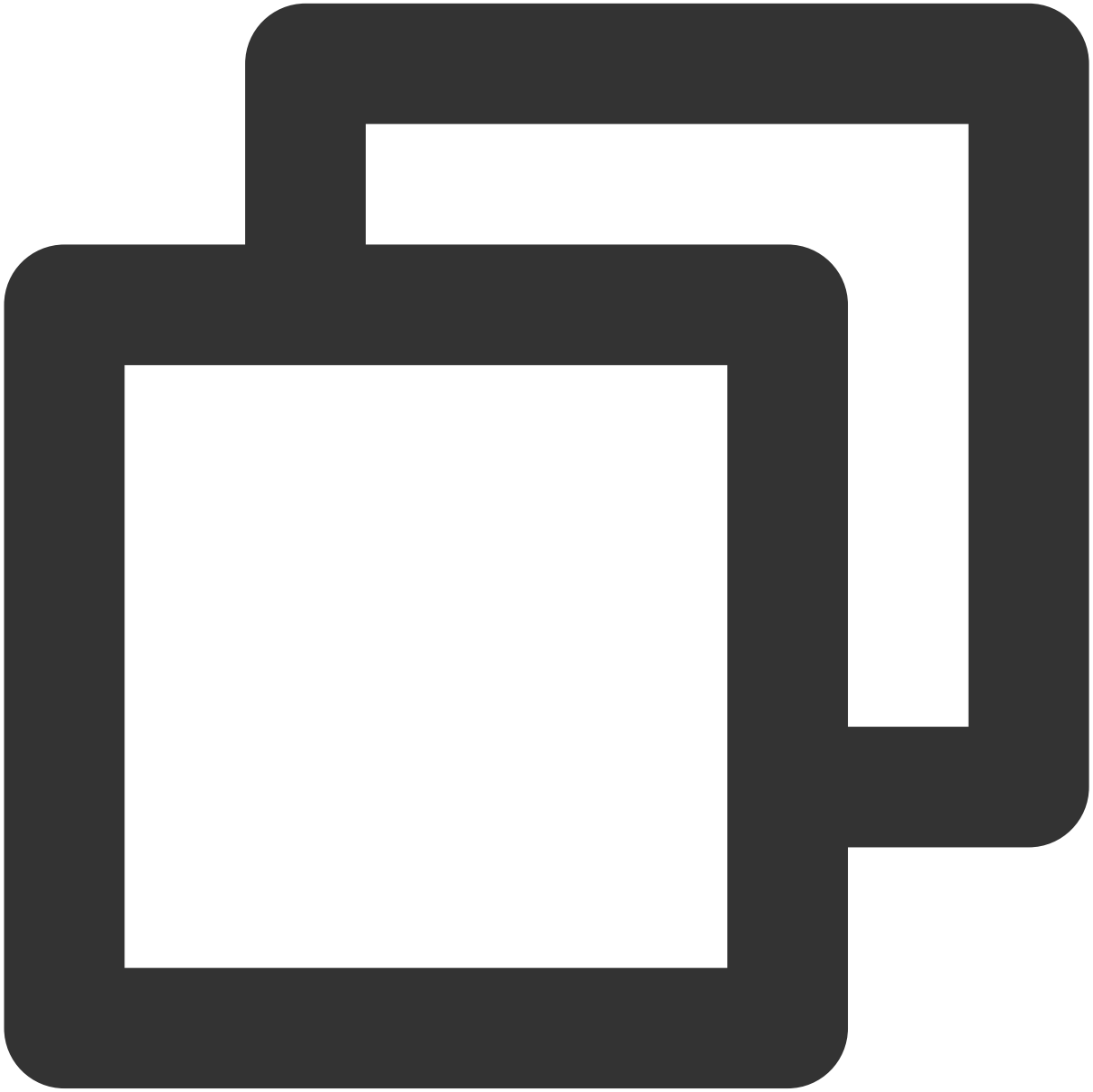
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Dependent libraries

Dynamic libraries: POCO, OpenSSL, and Crypto.

Compiling Linux SDK

1. Install the compiler and dependent libraries.

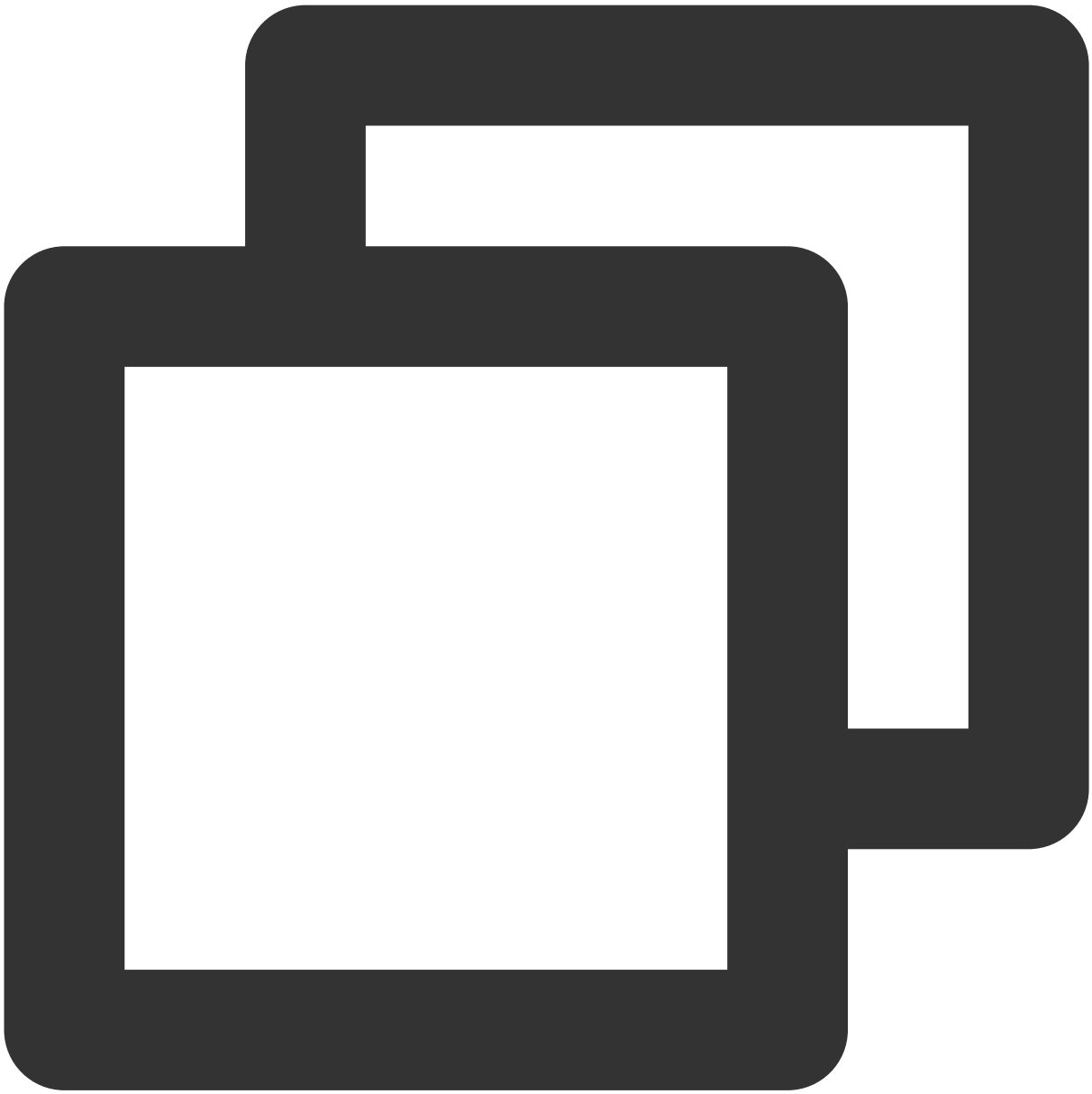


```
yum install -y gcc gcc-c++ make cmake openssl
# The CMake version should be later than 2.8.
```

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2. Compile the SDK.

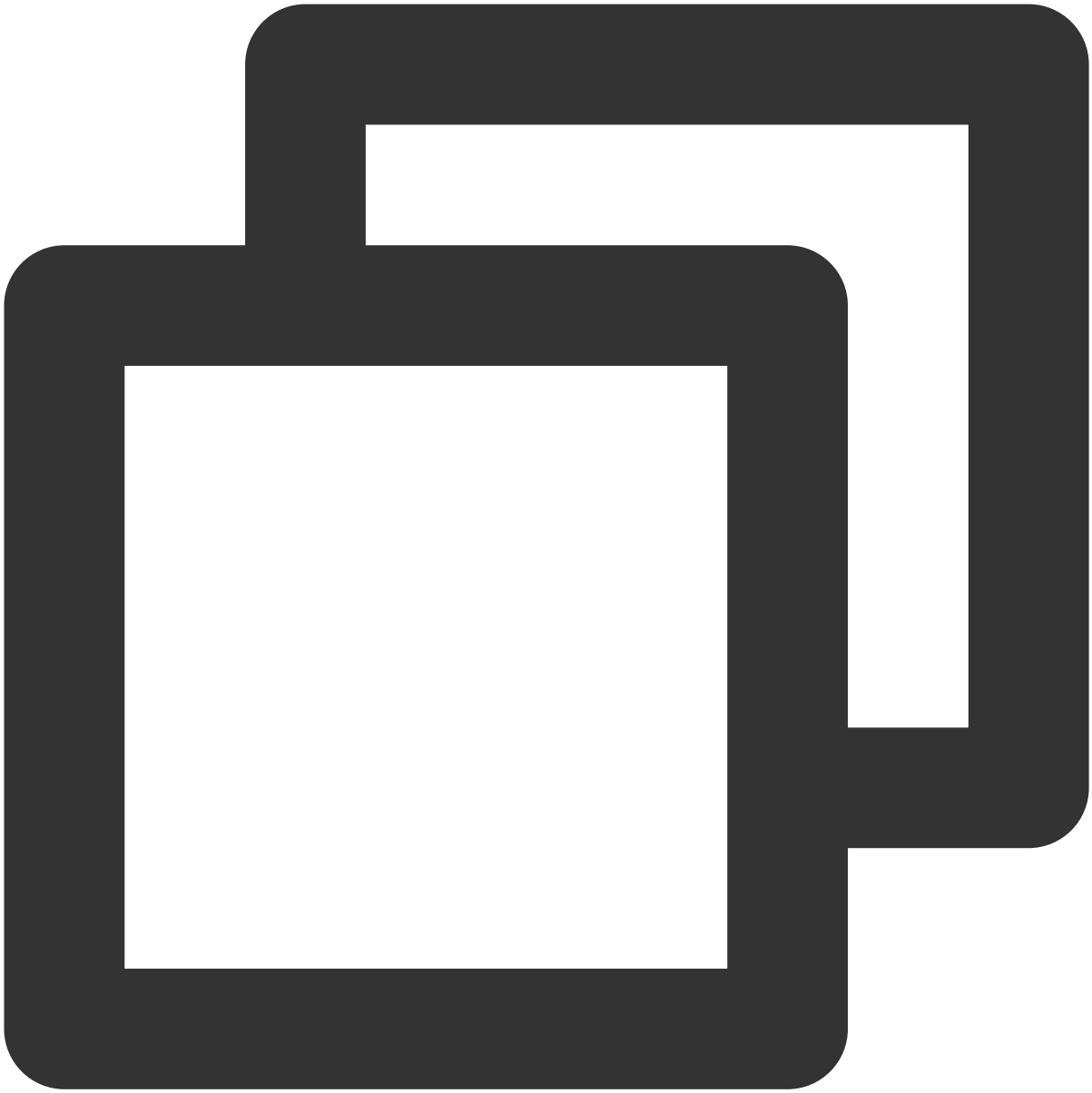
Download the XML C++ SDK source code to your development environment and run the following command:



```
cd ${cos-cpp-sdk}
mkdir -p build
cd build
cmake ..
make
```

3. Install the POCO library.

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```
cd ${cos-cpp-sdk}
sh install-libpoco.sh
```

Note:

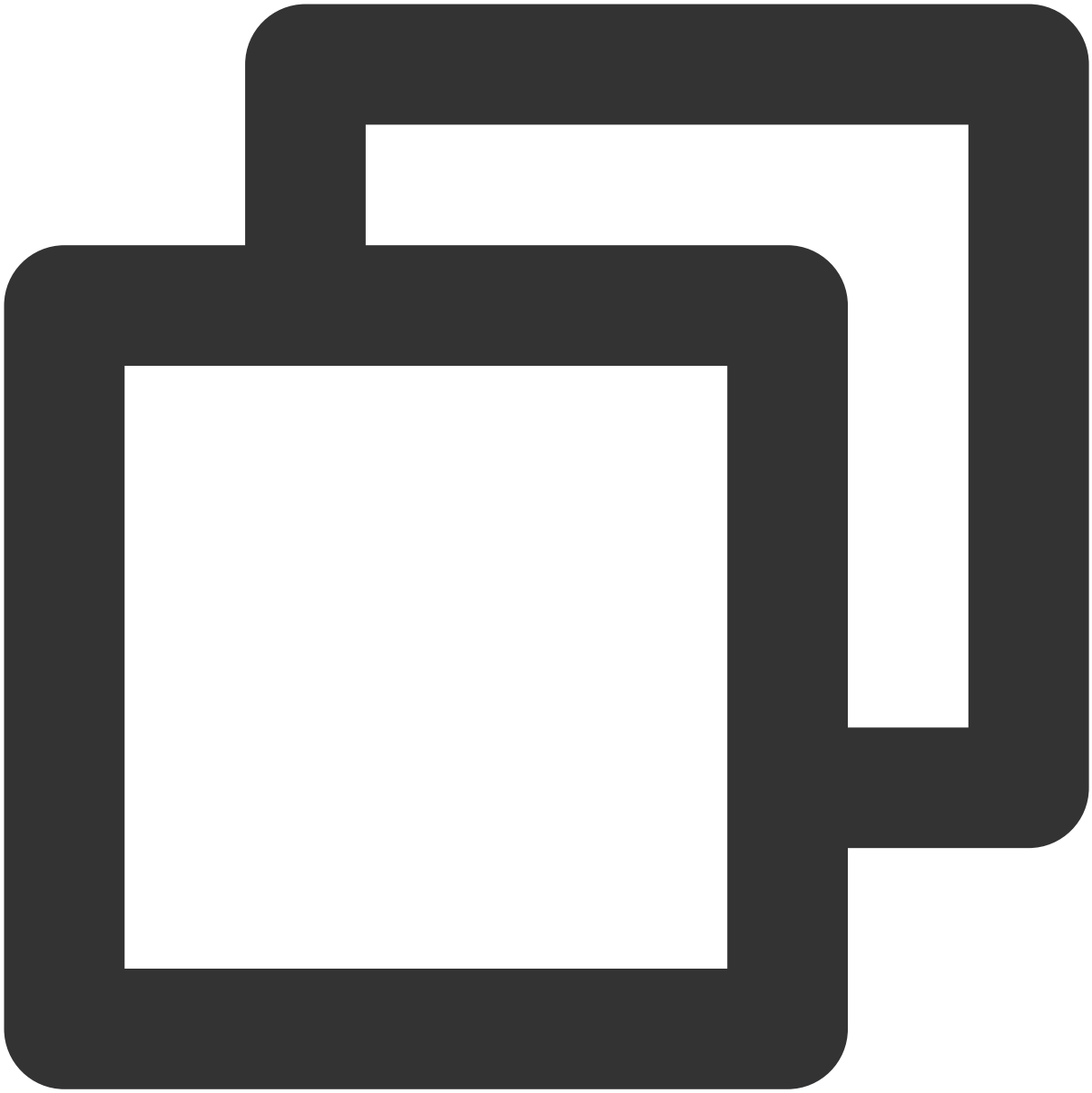
This script installs the POCO dynamic library to the `/usr/lib64` directory and creates a soft link. To use a COS SDK in the production environment, install the POCO library to the production environment as well.

4. Run the demo.

Note:

You can skip this step if you don't need to test the demo.

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```
cd ${cos-cpp-sdk}
vim demo/cos_demo.cpp  # Modify the bucket name and testing code in the demo
vim CMakeLists.txt # Set `BUILD_DEMO` to `ON` in `CMakeLists.txt` to start compilin
cd build && make # Compile the demo
ls bin/cos_demo # The generated executable file is in the `bin` directory
vim bin/config.json # Modify the key and region
cd bin && ./cos_demo # Run the demo
```

5. Use the SDK.

The compiled libraries can be found in the `build/lib` directory. The static library name is `libcossdk.a`, and

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the dynamic library name is `libcossdk-shared.so` . During actual use, copy the `include` directory to the `include` path of your project.

Compiling Windows SDK

1. Install Visual Studio 2017.

Install the Visual Studio 2017 development environment.

2. Install CMake.

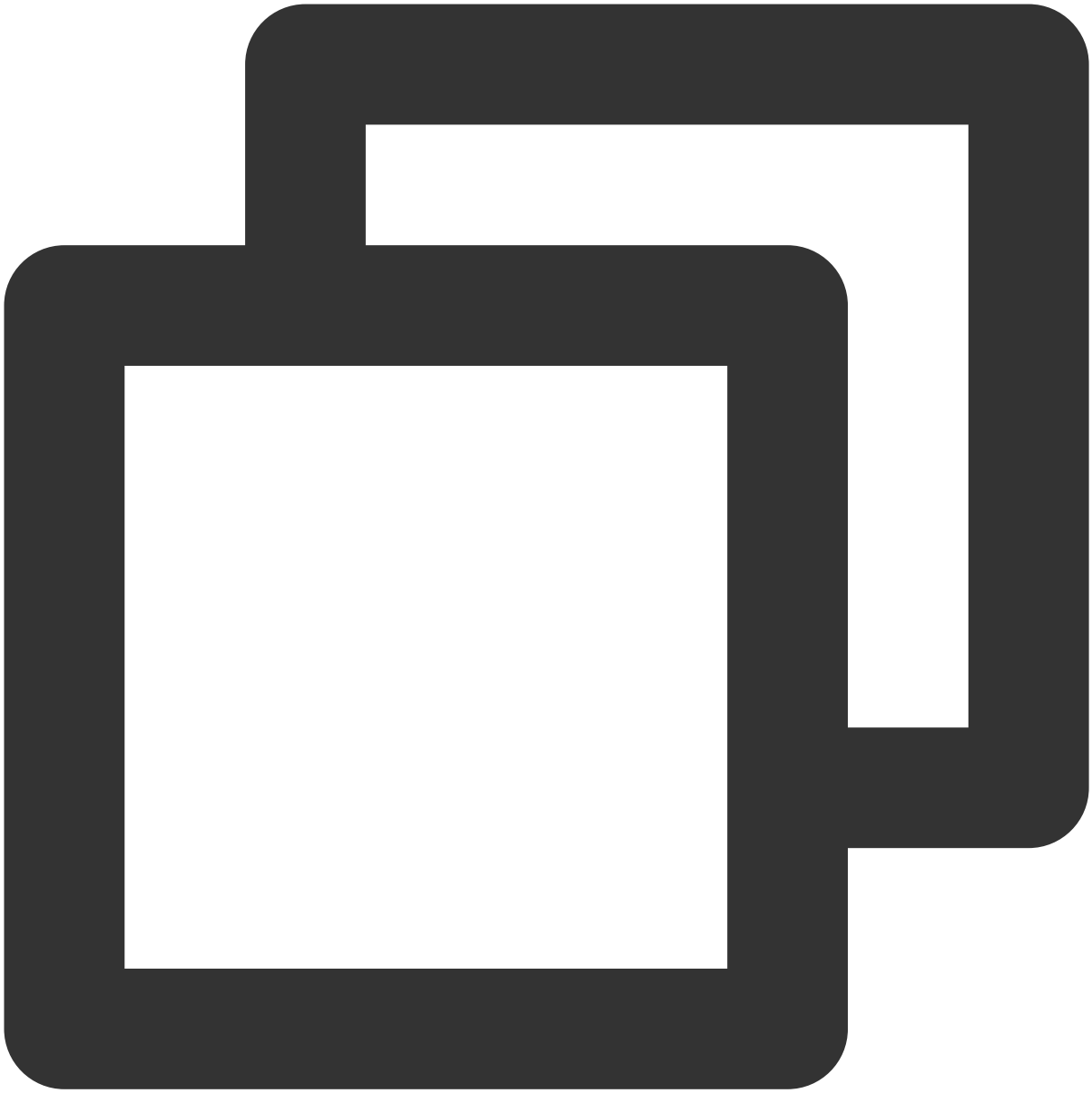
Download the CMake for Windows compiler from CMake official website, and then configure `${CMake installation path}\\bin` in the `Path` environment variable.

3. Compile the SDK.

i. Download the XML Windows C++ SDK source code to your development environment.

ii. Open the Windows command-line tool, run `cd` to the directory of the C++ SDK source code, and run the following command:

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```
mkdir build
cd build
cmake .. # Generate the Windows 32-bit Makefile
cmake -G "Visual Studio 15 Win64" .. # Generate the Windows 64-bit Makefile
```

iii. Use Visual Studio 2017 to open the Solution Explorer and perform compilation.

4. Run the demo.

Note:

You can skip this step if you don't need to test the demo.

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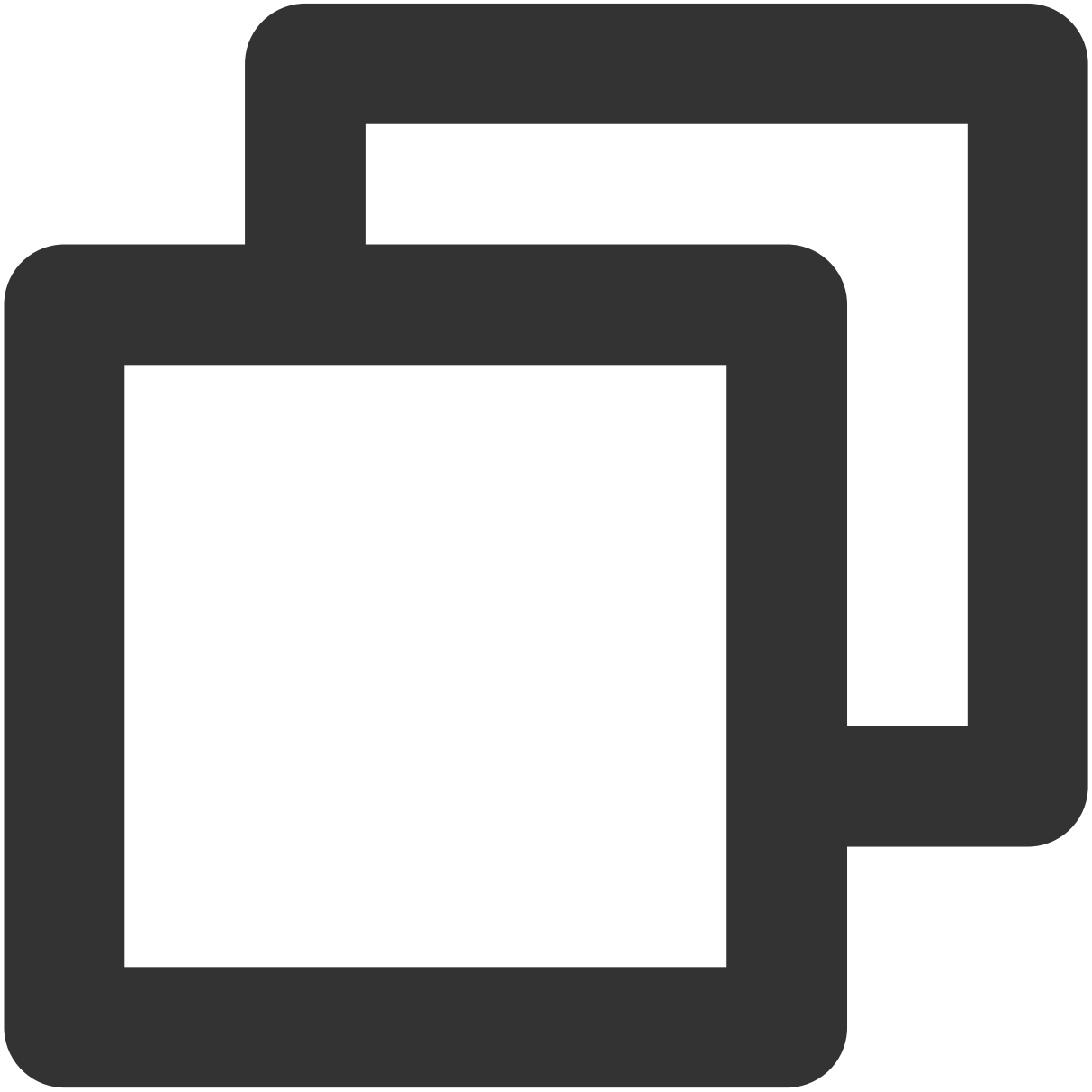
Modify the demo code and compile it. The generated `cos_demo.exe` file is in the `bin` directory. You can modify `bin/config.json` to run `cos_demo.exe` .

5. Use the SDK.

The compiled libraries can be found in the `build/Release` directory. The static library name is `cossdk.lib` . During actual use, copy the `include` directory to the `include` path of your project.

Compiling macOS SDK

1. Install the compiler and dependent libraries.

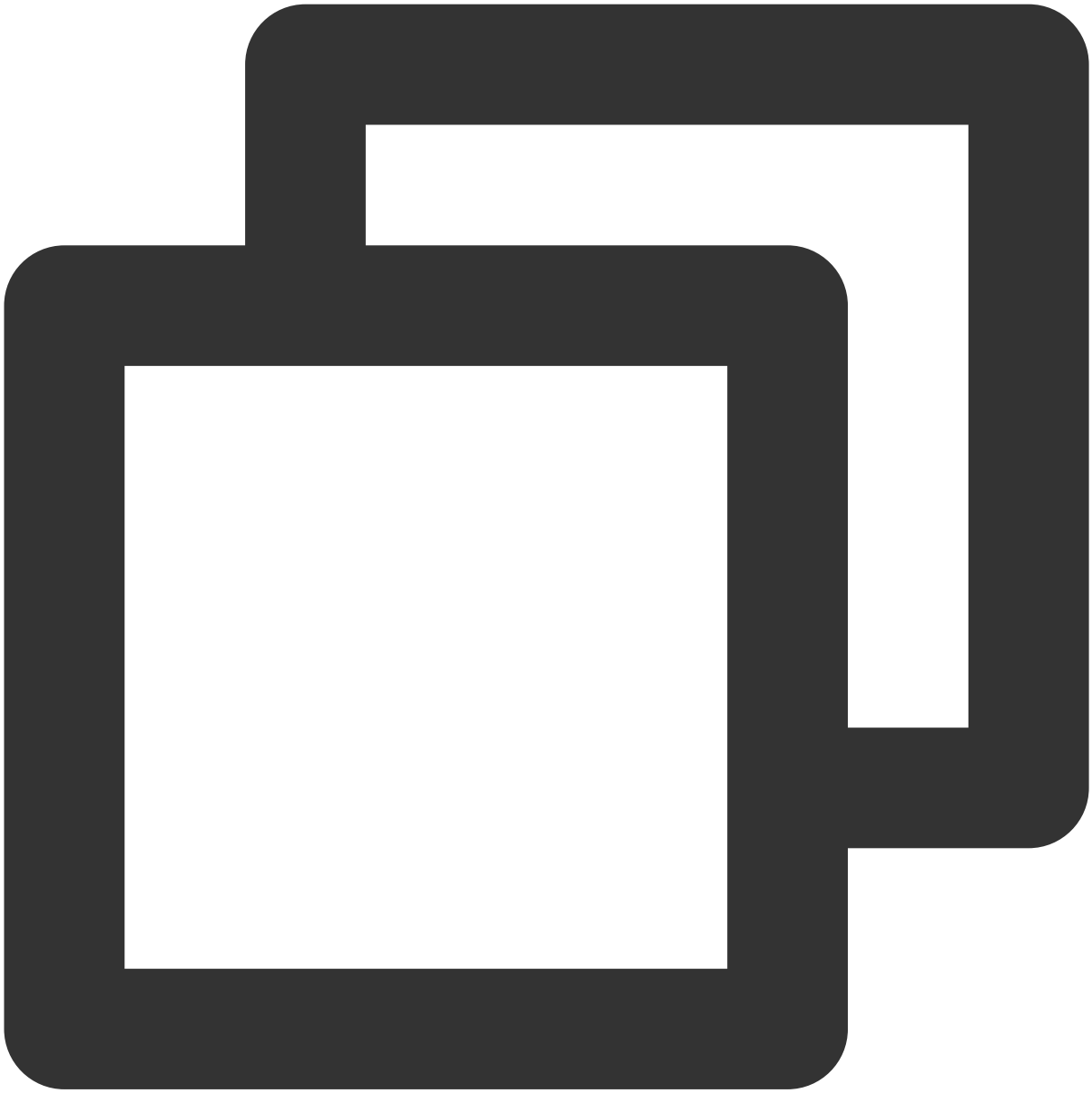


```
brew install gcc make cmake openssl
```

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2. Compile the SDK.

Download the XML C++ SDK source code to your development environment and run the following command:



```
cd ${cos-cpp-sdk}
mkdir -p build
cd build
cmake ..
make
```

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3. Install the POCO library.

The POCO library is in the `third_party/lib/macOS/poco` directory. You can install it by yourself.

4. Run the demo.

Note:

You can skip this step if you don't need to test the demo.

Modify the demo code and compile it. The generated `cos_demo` is in the `bin` directory. Copy `cos-cpp-sdk-v5/demo/config.json` to the `bin` directory and modify `bin/config.json`. Then, you can run `cos_demo`.

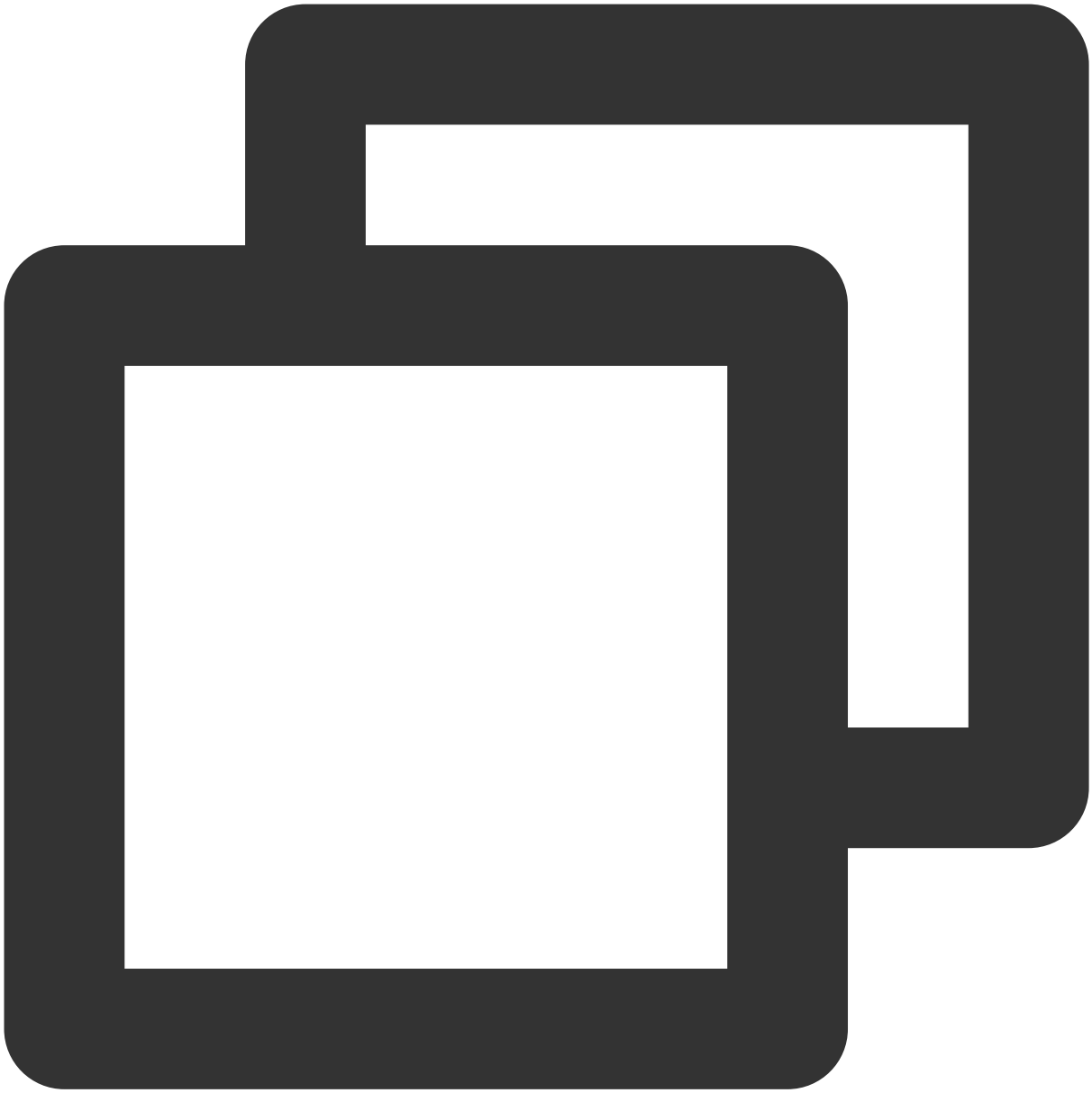
5. Use the SDK.

The compiled libraries can be found in the `build/lib` directory. The static library name is `libcossdk.a`, and the dynamic library name is `libcossdk-shared.dylib`. During actual use, copy the `include` directory to the `include` path of your project.

Common compilation errors

1. The following error information is displayed when the executable program is compiled:

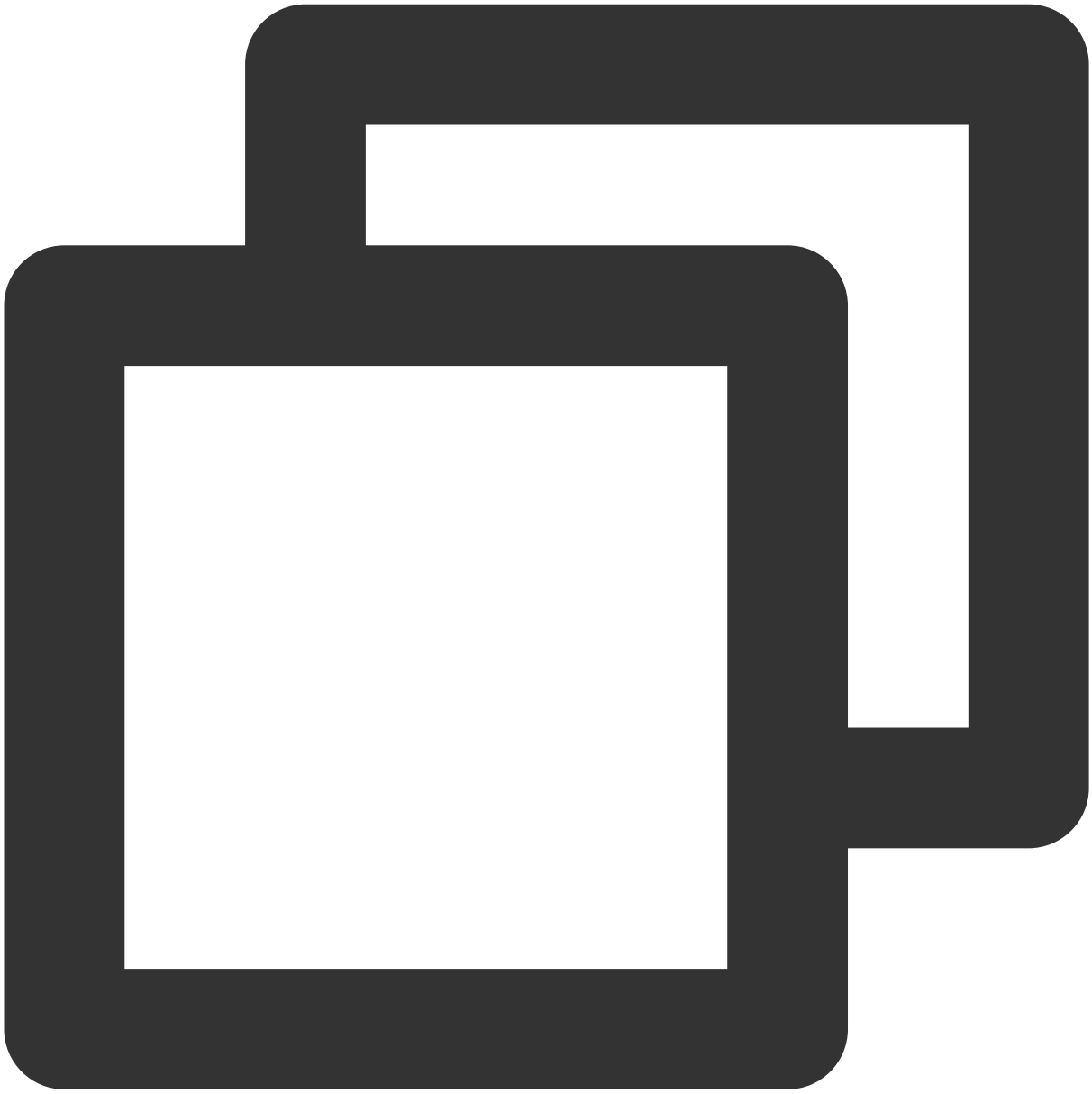
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```
PocoCrypto.so.64: undefined reference to `PEM_write_bio_PrivateKey@libcrypto.so.10'
libPocoNetSSL.so.64: undefined reference to `X509_check_host@libcrypto.so.10'
ibPocoCrypto.so.64: undefined reference to `ECDSA_sign@OPENSSL_1.0.1_EC'
libPocoCrypto.so.64: undefined reference to `CRYPTO_set_id_callback@libcrypto.so.10
ibPocoCrypto.so.64: undefined reference to `EVP_PKEY_id@libcrypto.so.10'
libPocoNetSSL.so.64: undefined reference to `SSL_get1_session@libssl.so.10'
libPocoNetSSL.so.64: undefined reference to `SSL_get_shutdown@libssl.so.10'
libPocoCrypto.so.64: undefined reference to `EVP_PKEY_set1_RSA@libcrypto.so.10'
libPocoCrypto.so.64: undefined reference to `SSL_load_error_strings@libssl.so.10'
```

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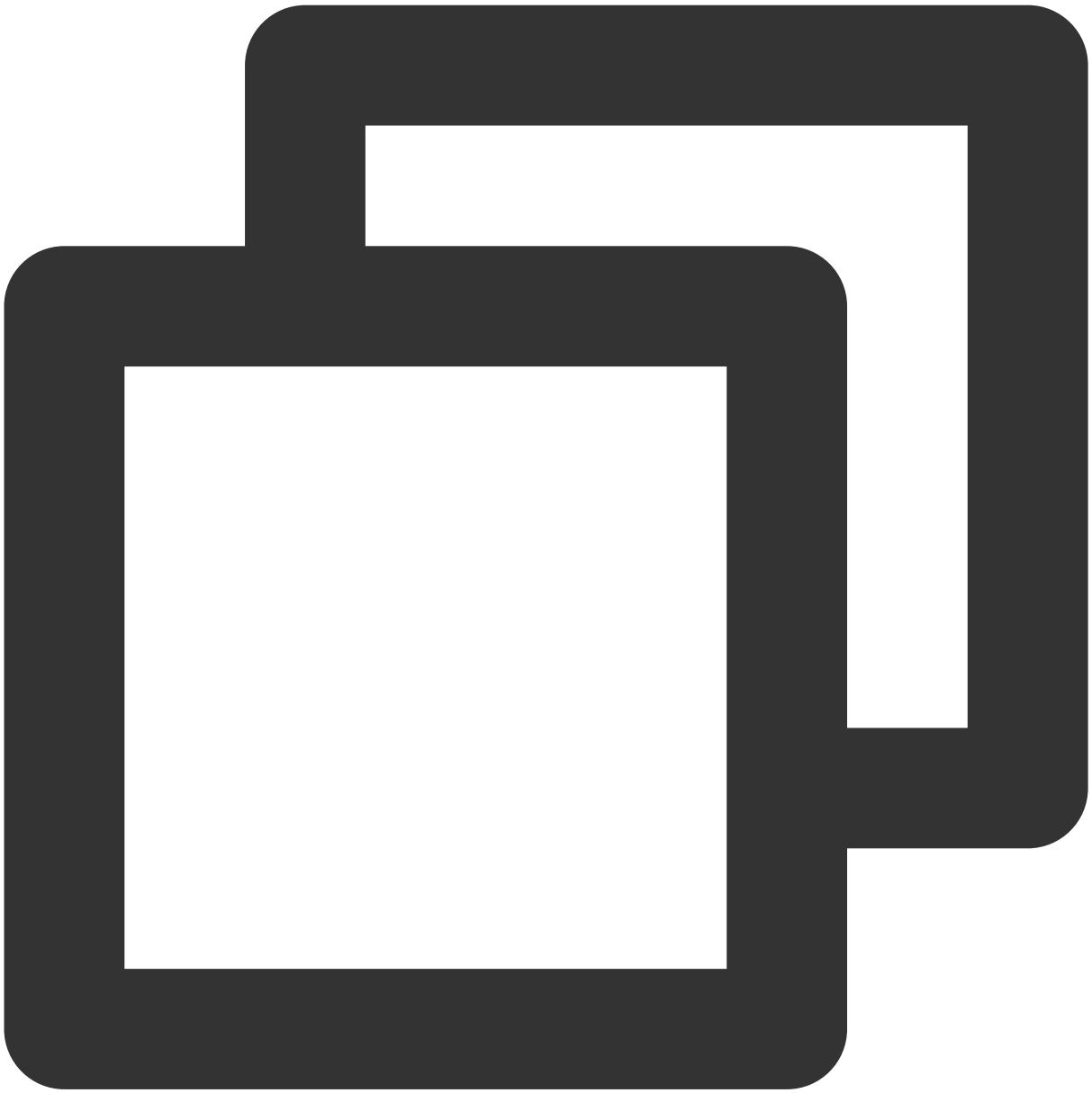
This is usually caused by the inconsistency between the project's built-in SSL version on which the POCO library compilation depends and the SSL version on your device. You need to compile the POCO library again and replace the POCO library in `third_party` .



```
wget https://github.com/pocoproject/poco/archive/refs/tags/poco-1.9.4-release.zip
cd poco-poco-1.9.4-release/
./configure --omit=Data/ODBC,Data/MySQL
mkdir my_build
cd my_build
cmake ..
make -j5
```

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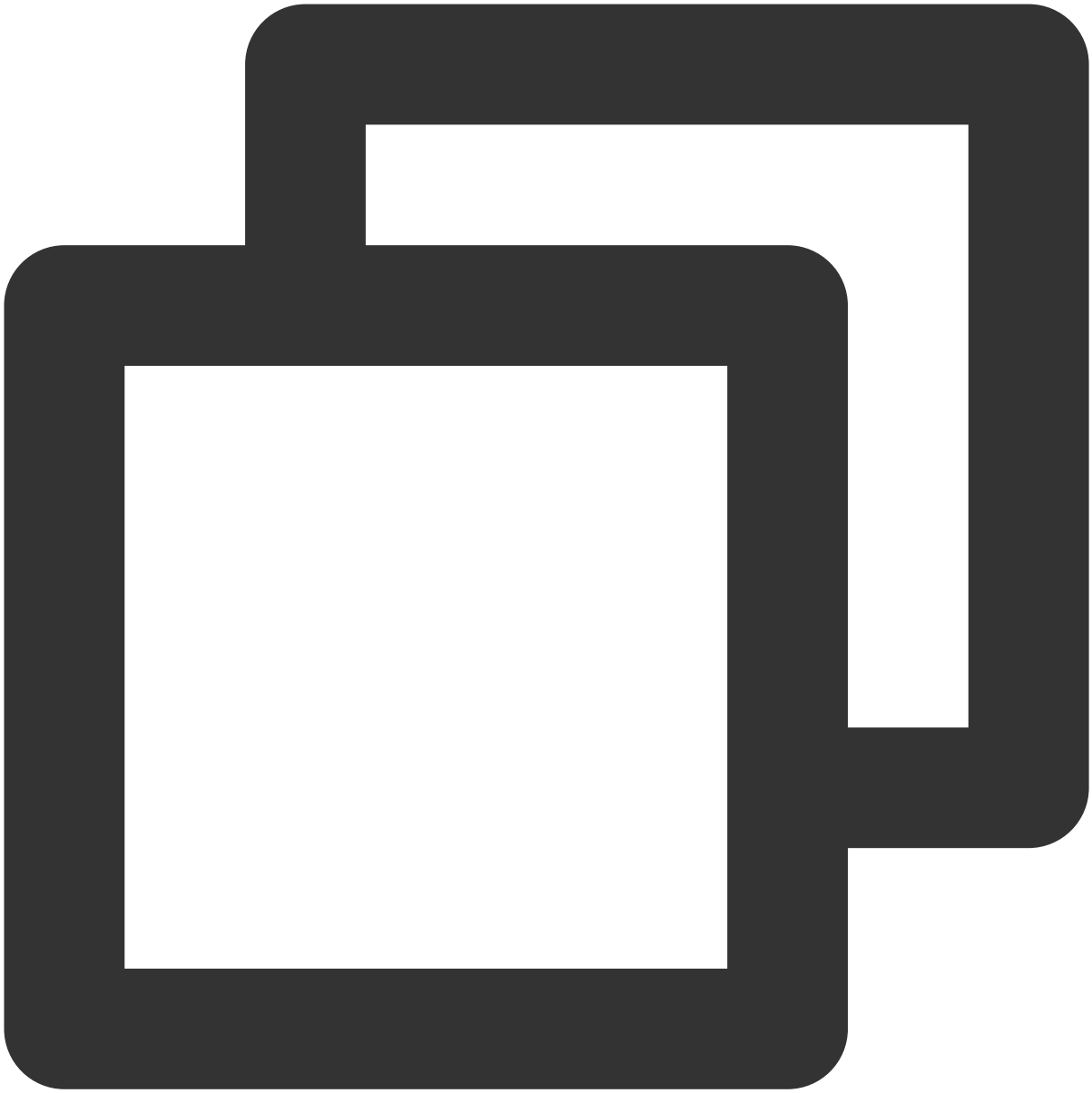
2. The PocoNetSSL library failed to be compiled during POCO library compilation. This is usually because the `openssl-devel` library is not installed.



```
yum install -y openssl-devel
```

3. The following error information is displayed when the executable program is compiled:

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```
undefined reference to `qcloud_cos::CosConfig::CosConfig(std::__cxx11::basic_string
```

This is usually caused by the inconsistency between the project's built-in GCC version used by the `libcossdk.a` compilation and the GCC version on your device. You need to compile the POCO library and `libcossdk.a` again.

Getting Started

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The section below describes how to use the COS C++ SDK to perform basic operations, such as initializing a client, creating a bucket, querying a bucket list, uploading an object, querying an object list, downloading an object, or deleting an object.

Note:

For the definitions of terms such as `SecretId`, `SecretKey`, and bucket, see Introduction.

Initialization

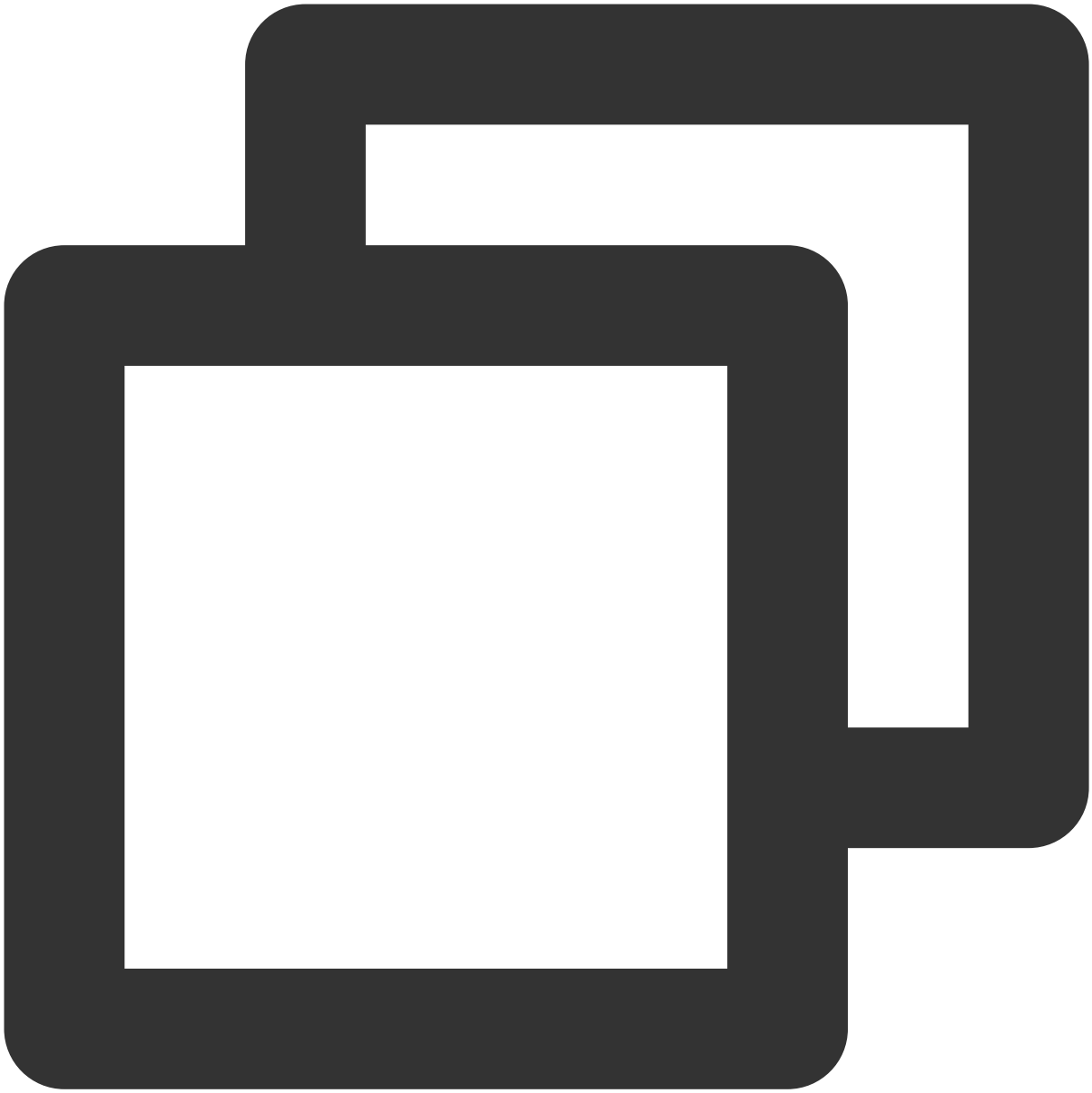
Note:

We recommend you use a sub-account key and environment variables to call the SDK for security purposes. When authorizing a sub-account, follow the Notes on Principle of Least Privilege to avoid leaking resources besides your buckets and objects.

If you must use a permanent key, we recommend you follow the Notes on Principle of Least Privilege to limit the scope of permission on the permanent key.

Fields in the configuration file are as described below:

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```
{
"SecretId":"********************************", // Replace the value with your `Secr
"SecretKey":"********************************", // Replace the value with your `Secr
"Region":"ap-guangzhou",                    // Bucket region. Replace it with your buck
"SignExpiredTime":360,                // Signature expiration time in seconds
"ConnectTimeoutInms":6000,            // Connection timeout period in milliseconds
"ReceiveTimeoutInms":60000,           // `Receive` timeout period in milliseconds
"UploadPartSize":10485760,            // Size of the part to be uploaded, which can b
"UploadCopyPartSize":20971520,        // Size of the copied part for upload, which ca
"UploadThreadPoolSize":5,             // Size of the upload thread pool for a single
"DownloadSliceSize":4194304,          // Size of the part to be downloaded
```

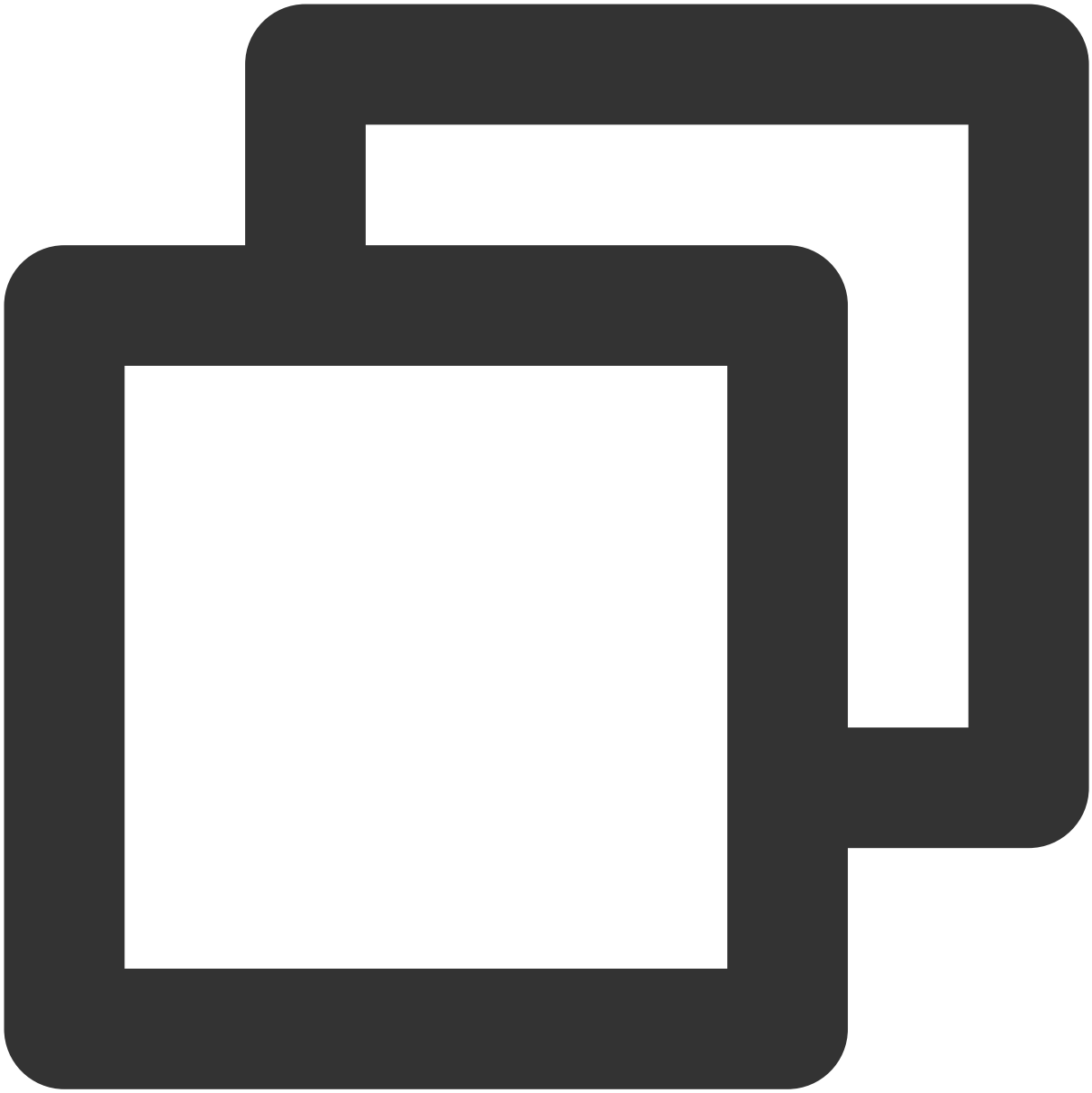
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```
"DownloadThreadPoolSize":5,          // Size of the download thread pool for a singl
"AsynThreadPoolSize":2,              // Size of the async thread pool for uploads/do
"LogoutType":1,                      // Log output type. Valid values: 0 (no output)
"LogLevel":3,                        // Log level. Valid values: 1 (ERR), 2 (WARN),
"IsDomainSameToHost":false,          // Whether to use a specific host
"DestDomain":"",                     // Specific host
"IsUseIntranet":false,               // Whether to use a specific IP and port number
"IntranetAddr":""                    // Specific IP and port number, such as `127.0.
}
```

Accessing COS with temporary key

To access COS with a temporary key, see the code below:

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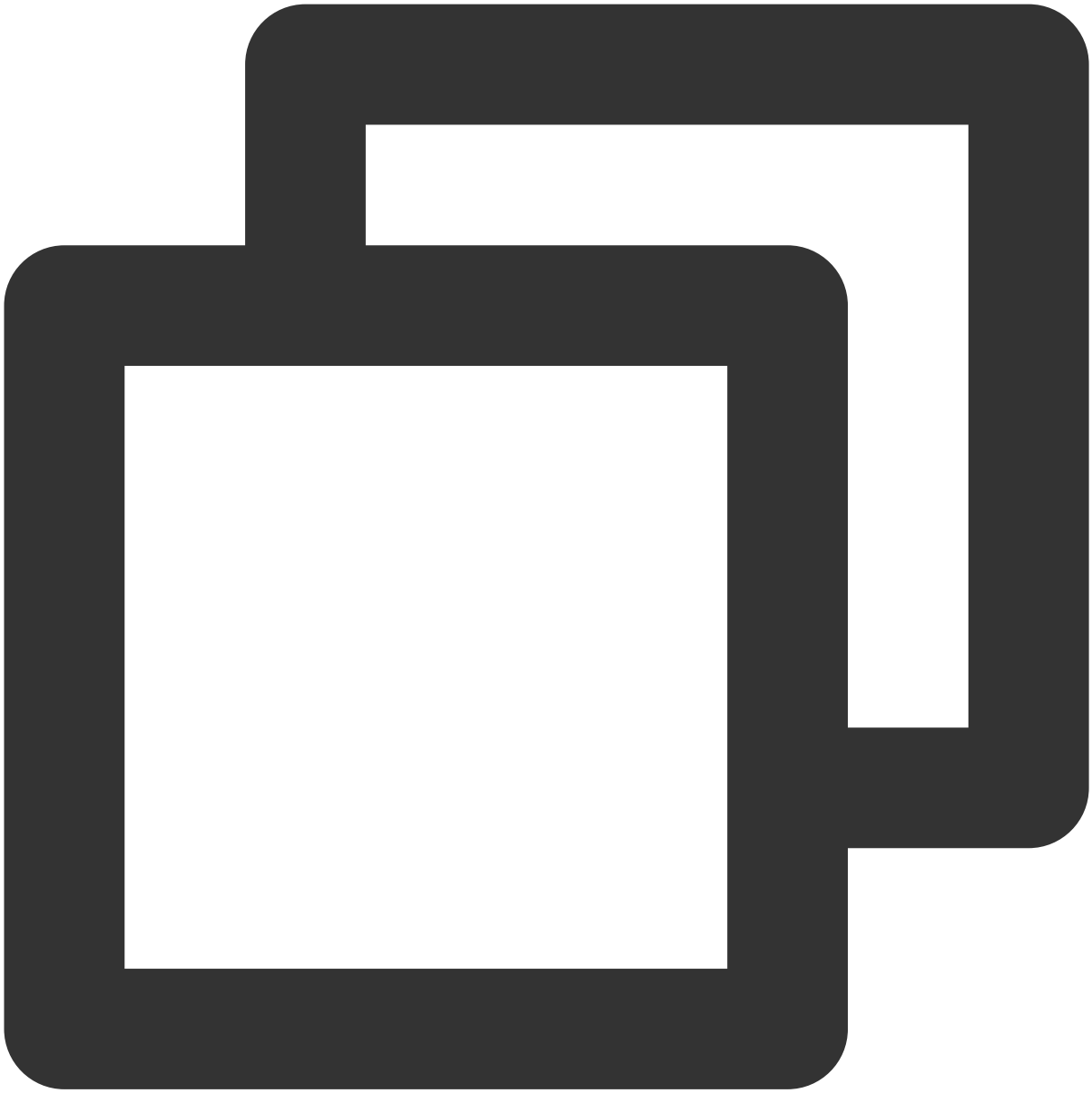


```
#include "cos_api.h"
#include "cos_sys_config.h"
#include "cos_defines.h"
int main(int argc, char *argv[]) {
    qcloud_cos::CosConfig config("./config.json");
    // Token is required for temporary keys but not permanent keys. For more inform
    config.SetTmpToken("xxx");
    qcloud_cos::CosAPI cos(config);
}
```

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Printing SDK internal logs to custom log file

To print SDK internal logs (especially for Windows) to a custom log file, see the code below:

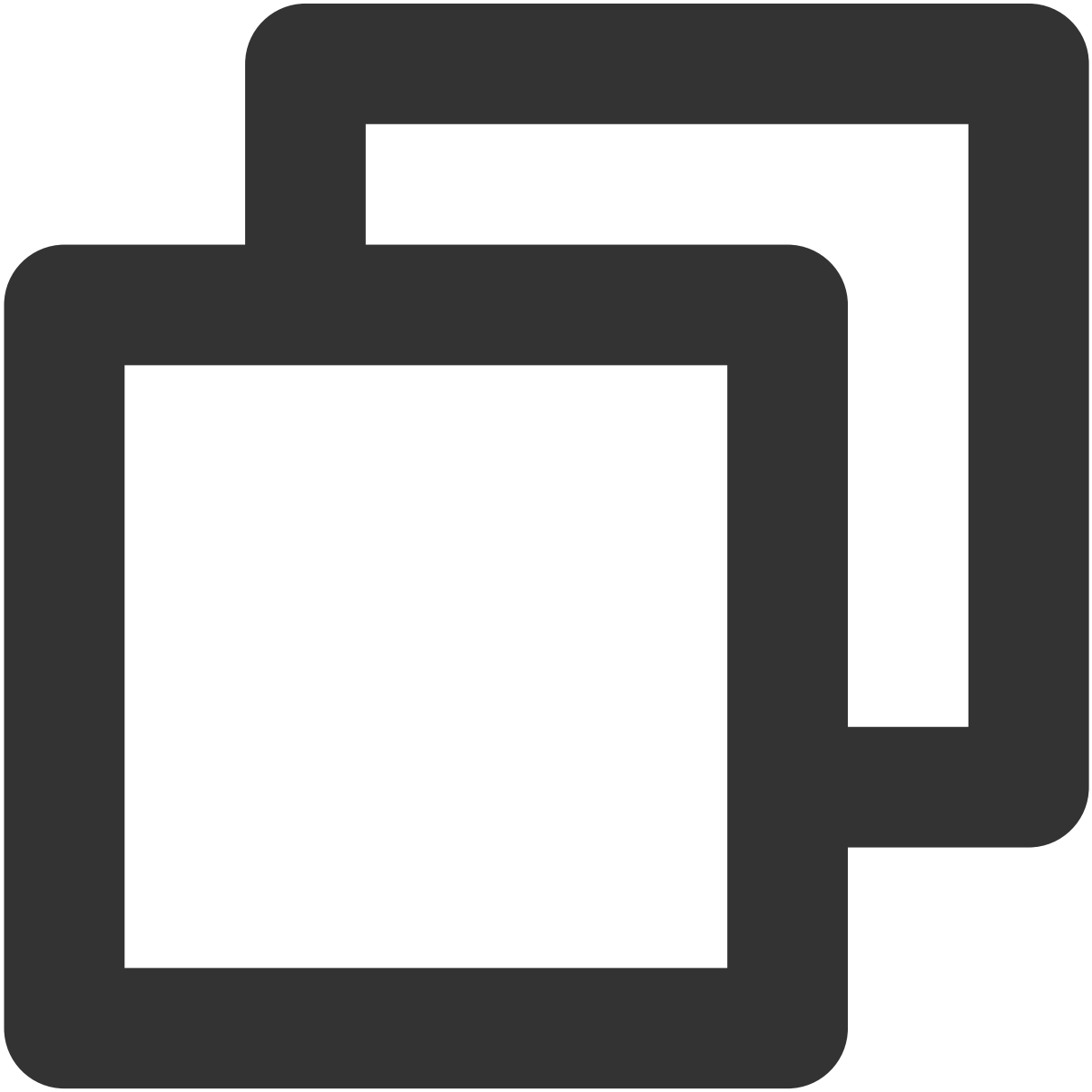


```
#include "cos_api.h"
#include "cos_sys_config.h"
#include "cos_defines.h"
void TestLogCallback(const std::string& log) {
    std::ofstream ofs;
    ofs.open("test.log", std::ios_base::app);
    ofs << log;
    ofs.close();
```

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```
}
int main(int argc, char** argv) {
    qcloud_cos::CosConfig config("./config.json");
    config.SetLogCallback(&TestLogCallback);
    qcloud_cos::CosAPI cos(config);
}
```

Creating bucket



```
#include "cos_api.h"
```

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```
#include "cos_sys_config.h"
#include "cos_defines.h"

int main(int argc, char *argv[]) {
    // 1. Specify the path of the configuration file and initialize CosConfig
    qcloud_cos::CosConfig config("./config.json");
    qcloud_cos::CosAPI cos(config);

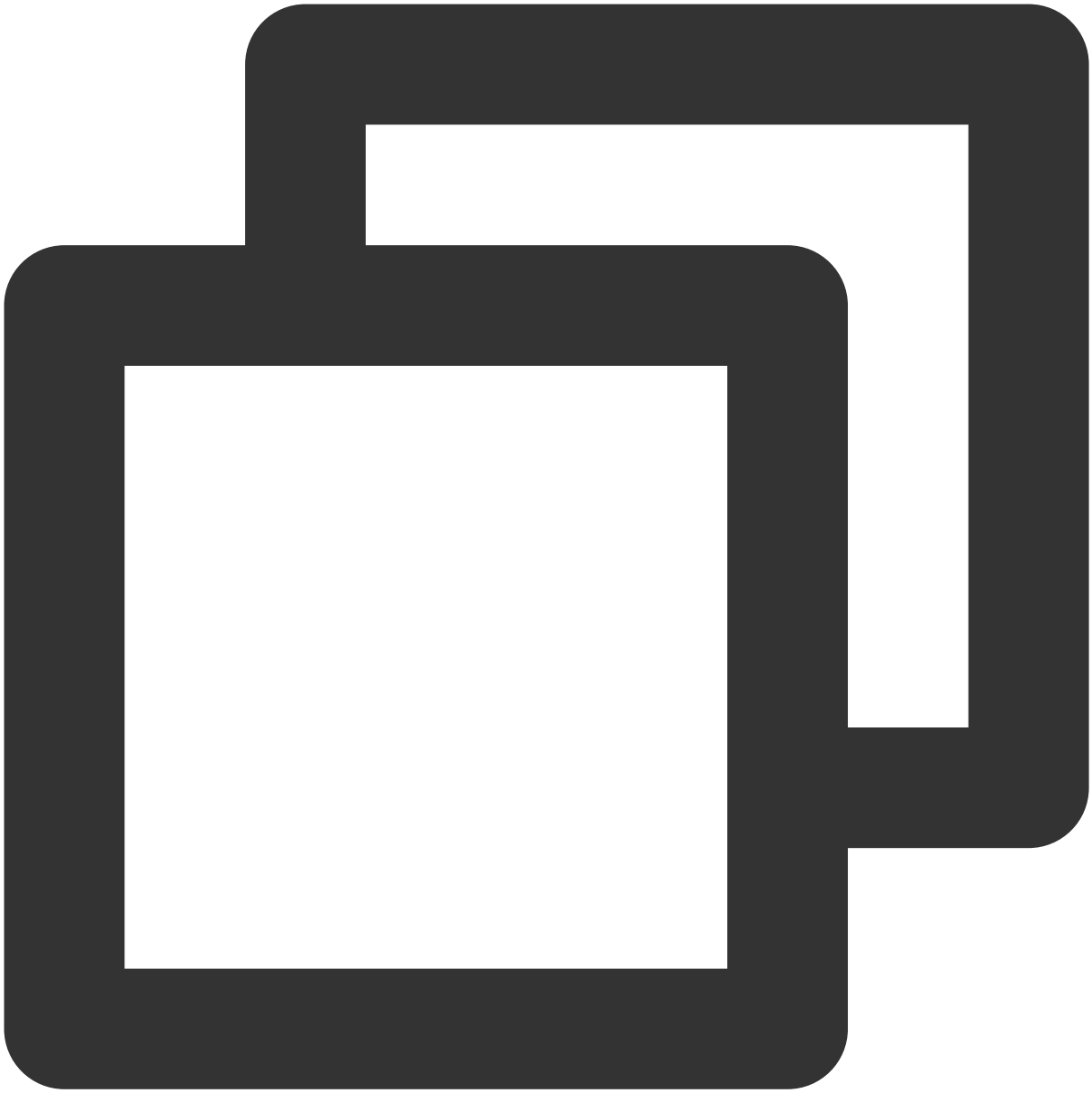
    // 2. Construct a request to create a bucket
    std::string bucket_name = "examplebucket-1250000000"; // Bucket name in the for
    qcloud_cos::PutBucketReq req(bucket_name);
    qcloud_cos::PutBucketResp resp;

    // 3. Call the bucket creation API
    qcloud_cos::CosResult result = cos.PutBucket(req, &resp);

    // 4. Process the call result
    if (result.IsSucc()) {
        // Created successfully
    } else {
        // Failed to create the bucket. You can call the CosResult member functions
        std::cout << "HttpStatus=" << result.GetHttpStatus() << std::endl;
        std::cout << "ErrorCode=" << result.GetErrorCode() << std::endl;
        std::cout << "ErrorMsg=" << result.GetErrorMsg() << std::endl;
        std::cout << "ResourceAddr=" << result.GetResourceAddr() << std::endl;
        std::cout << "XCosRequestId=" << result.GetXCosRequestId() << std::endl;
        std::cout << "XCosTraceId=" << result.GetXCosTraceId() << std::endl;
    }
}
```

Querying bucket list

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```
#include "cos_api.h"
#include "cos_sys_config.h"
#include "cos_defines.h"

int main(int argc, char *argv[]) {
    // 1. Specify the path of the configuration file and initialize CosConfig
    qcloud_cos::CosConfig config("./config.json");
    qcloud_cos::CosAPI cos(config);

    // 2. Construct a request to query the bucket list
    qcloud_cos::GetServiceReq req;
```

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```
    qcloud_cos::GetServiceResp resp;
    qcloud_cos::CosResult result = cos.GetService(req, &resp);

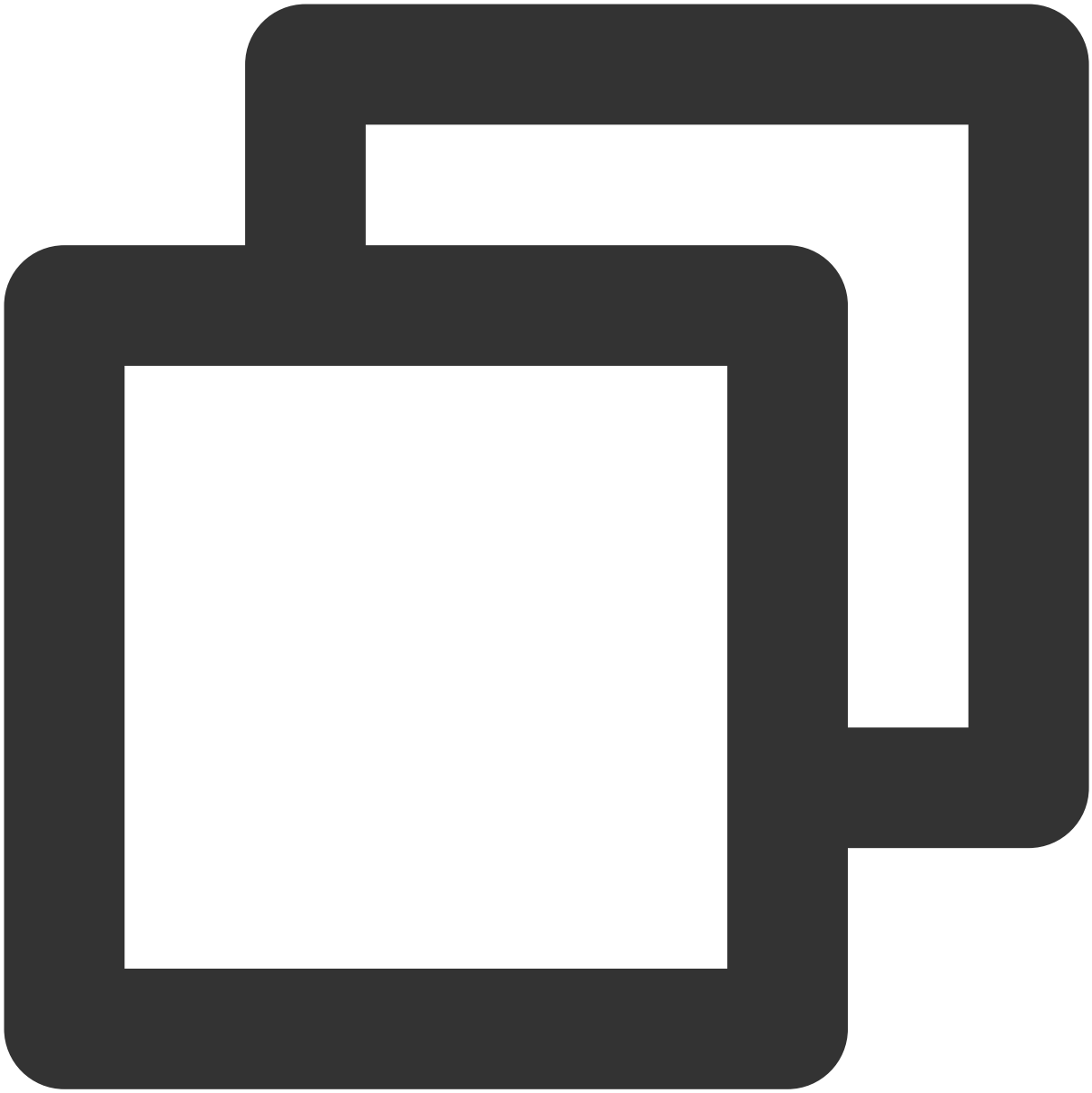
    // 3. Get the response information
    const qcloud_cos::Owner& owner = resp.GetOwner();
    const std::vector<qcloud_cos::Bucket>& buckets = resp.GetBuckets();
    std::cout << "owner.m_id=" << owner.m_id << ", owner.display_name=" << owner.m_

    for (std::vector<qcloud_cos::Bucket>::const_iterator itr = buckets.begin(); itr
        const qcloud_cos::Bucket& bucket = *itr;
        std::cout << "Bucket name=" << bucket.m_name << ", location="
            << bucket.m_location << ", create_date=" << bucket.m_create_date << std
    }

    // 4. Process the call result
    if (result.IsSucc()) {
        // Queried the bucket list successfully
    } else {
        // Failed to query the bucket list. You can call the CosResult member funct
        std::cout << "HttpStatus=" << result.GetHttpStatus() << std::endl;
        std::cout << "ErrorCode=" << result.GetErrorCode() << std::endl;
        std::cout << "ErrorMsg=" << result.GetErrorMsg() << std::endl;
        std::cout << "ResourceAddr=" << result.GetResourceAddr() << std::endl;
        std::cout << "XCosRequestId=" << result.GetXCosRequestId() << std::endl;
        std::cout << "XCosTraceId=" << result.GetXCosTraceId() << std::endl;
    }
}
```

Uploading object

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```
#include "cos_api.h"
#include "cos_sys_config.h"
#include "cos_defines.h"

int main(int argc, char *argv[]) {
    // 1. Specify the path of the configuration file and initialize CosConfig
    qcloud_cos::CosConfig config("./config.json");
    qcloud_cos::CosAPI cos(config);

    // 2. Construct a request to upload a file
    std::string bucket_name = "examplebucket-1250000000"; // Bucket name in the for
```

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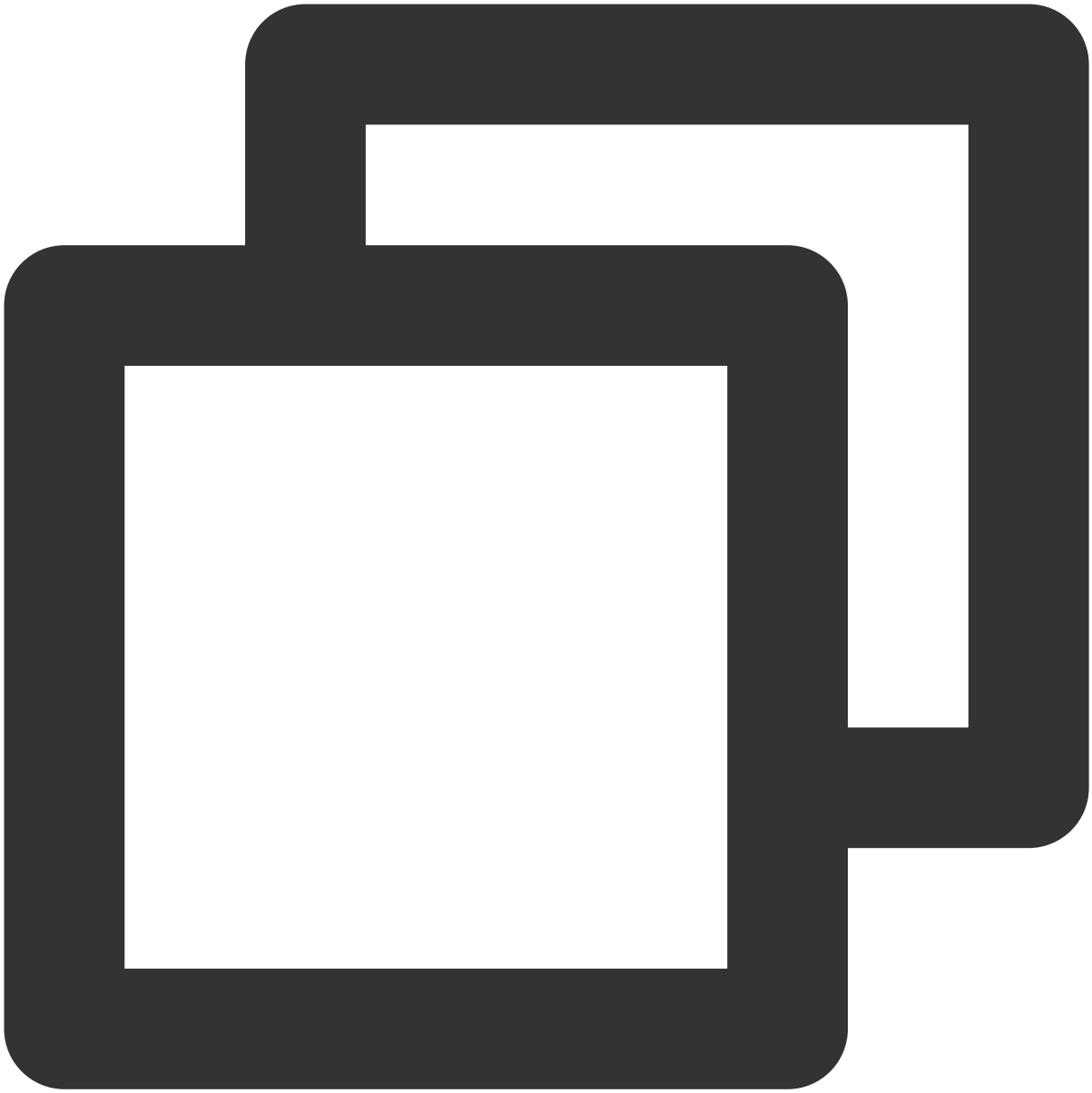
```
    std::string object_name = "exampleobject"; // `exampleobject` is the object key
    qcloud_cos::PutObjectByFileReq req(bucket_name, object_name, "/path/to/local/fi
    //req.SetXCosStorageClass("STANDARD_IA"); // `STANDARD_IA` is the default value
    qcloud_cos::PutObjectByFileResp resp;

    // 3. Call the object uploading API
    qcloud_cos::CosResult result = cos.PutObject(req, &resp);

    // 4. Process the call result
    if (result.IsSucc()) {
        // Uploaded the file successfully
    } else {
        // Failed to upload the file. You can call the CosResult member functions t
        std::cout << "HttpStatus=" << result.GetHttpStatus() << std::endl;
        std::cout << "ErrorCode=" << result.GetErrorCode() << std::endl;
        std::cout << "ErrorMsg=" << result.GetErrorMsg() << std::endl;
        std::cout << "ResourceAddr=" << result.GetResourceAddr() << std::endl;
        std::cout << "XCosRequestId=" << result.GetXCosRequestId() << std::endl;
        std::cout << "XCosTraceId=" << result.GetXCosTraceId() << std::endl;
    }
}
```

Querying object list

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```
#include "cos_api.h"
#include "cos_sys_config.h"
#include "cos_defines.h"

int main(int argc, char *argv[]) {
    // 1. Specify the path of the configuration file and initialize CosConfig
    qcloud_cos::CosConfig config("./config.json");
    qcloud_cos::CosAPI cos(config);

    // 2. Construct a request to query the object list
    std::string bucket_name = "examplebucket-1250000000"; // Bucket name in the for
```

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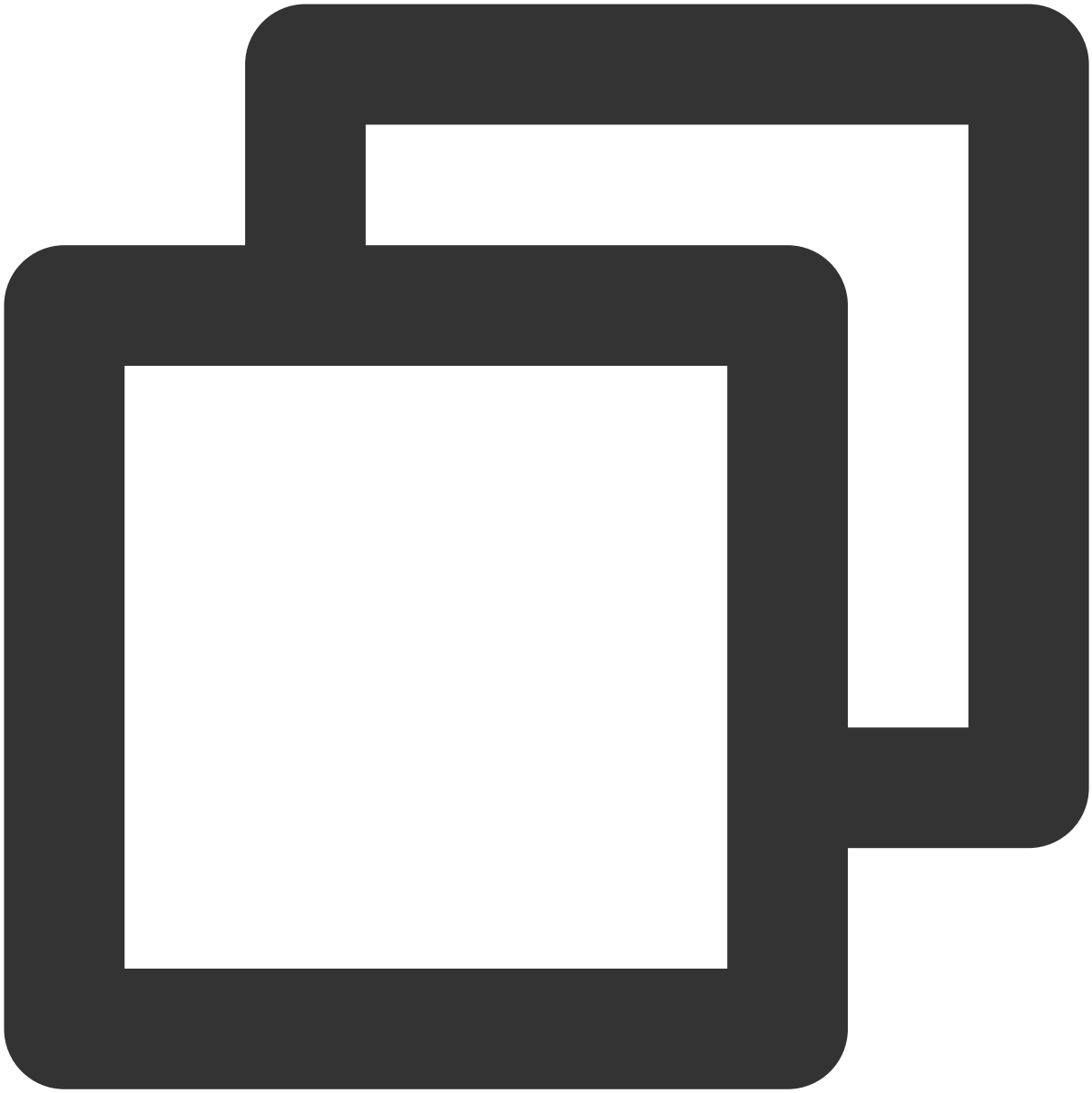
```
    qcloud_cos::GetBucketReq req(bucket_name);
    qcloud_cos::GetBucketResp resp;
    qcloud_cos::CosResult result = cos.GetBucket(req, &resp);

    std::vector<qcloud_cos::Content> cotents = resp.GetContents();
    for (std::vector<qcloud_cos::Content>::const_iterator itr = cotents.begin(); it
        const qcloud_cos::Content& content = *itr;
        std::cout << "key name=" << content.m_key << ", lastmodified ="
            << content.m_last_modified << ", size=" << content.m_size << std::endl;
    }

    // 3. Process the call result
    if (result.IsSucc()) {
        // Queried the object list successfully
    } else {
        // Failed to query the object list. You can call the CosResult member funct
        std::cout << "HttpStatus=" << result.GetHttpStatus() << std::endl;
        std::cout << "ErrorCode=" << result.GetErrorCode() << std::endl;
        std::cout << "ErrorMsg=" << result.GetErrorMsg() << std::endl;
        std::cout << "ResourceAddr=" << result.GetResourceAddr() << std::endl;
        std::cout << "XCosRequestId=" << result.GetXCosRequestId() << std::endl;
        std::cout << "XCosTraceId=" << result.GetXCosTraceId() << std::endl;
    }
}
```

Downloading object

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```
#include "cos_api.h"
#include "cos_sys_config.h"
#include "cos_defines.h"

int main(int argc, char *argv[]) {
    // 1. Specify the path of the configuration file and initialize CosConfig
    qcloud_cos::CosConfig config("./config.json");
    qcloud_cos::CosAPI cos(config);

    // 2. Construct a request to download an object
    std::string bucket_name = "examplebucket-1250000000"; // Bucket name in the for
```

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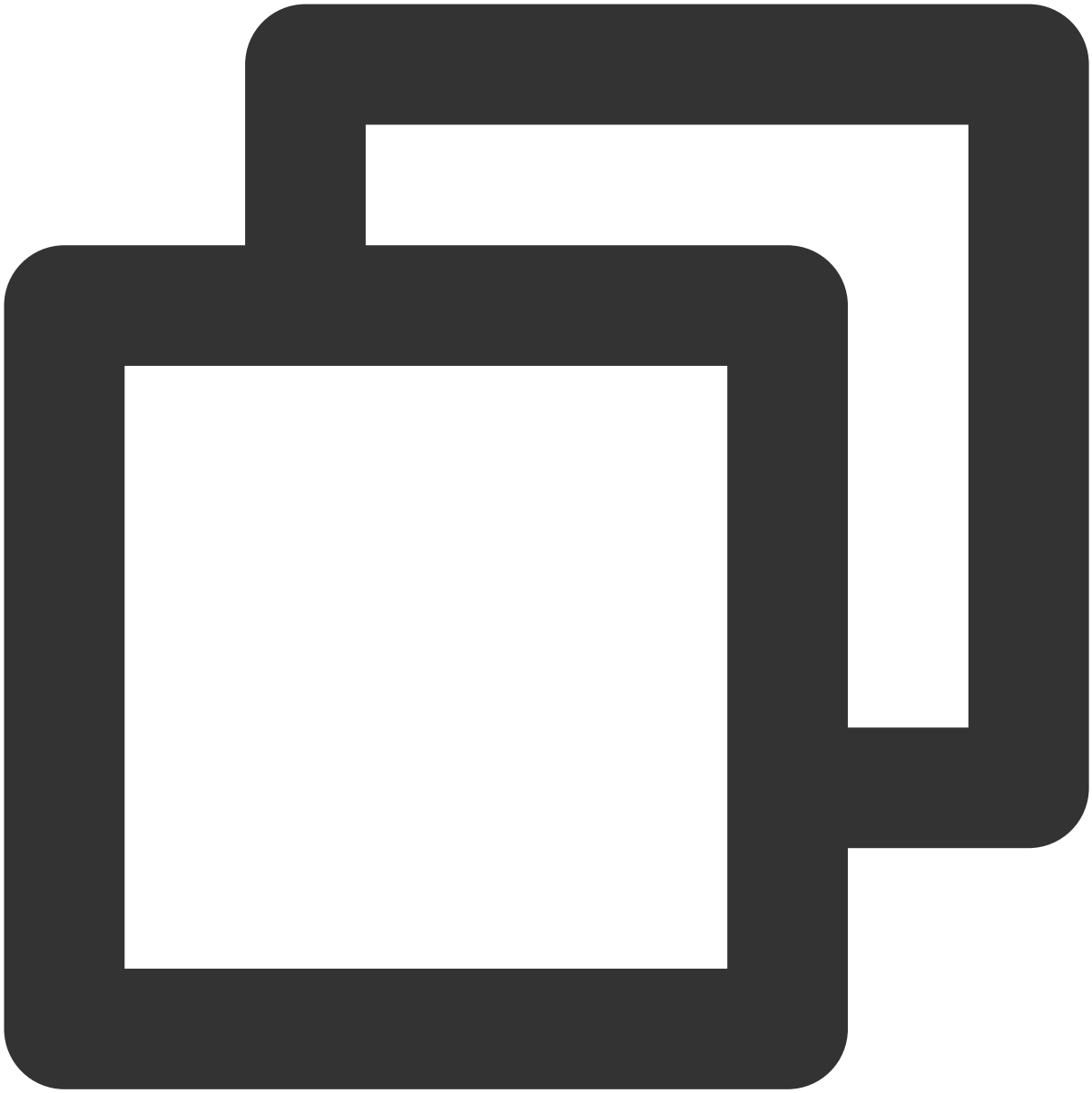
```
    std::string object_name = "exampleobject"; // `exampleobject` is the object key
    std::string local_path = "/tmp/exampleobject";
    // `appid`, `bucketname`, `object`, and a local path (including filename) are r
    qcloud_cos::GetObjectByFileReq req(bucket_name, object_name, local_path);
    qcloud_cos::GetObjectByFileResp resp;

    // 3. Call the object downloading API
    qcloud_cos::CosResult result = cos.GetObject(req, &resp);

    // 4. Process the call result
    if (result.IsSucc()) {
        // Downloaded the file successfully
    } else {
        // Failed to download the file. You can call the CosResult member functions
        std::cout << "HttpStatus=" << result.GetHttpStatus() << std::endl;
        std::cout << "ErrorCode=" << result.GetErrorCode() << std::endl;
        std::cout << "ErrorMsg=" << result.GetErrorMsg() << std::endl;
        std::cout << "ResourceAddr=" << result.GetResourceAddr() << std::endl;
        std::cout << "XCosRequestId=" << result.GetXCosRequestId() << std::endl;
        std::cout << "XCosTraceId=" << result.GetXCosTraceId() << std::endl;
    }
}
```

Deleting object

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```
#include "cos_api.h"
#include "cos_sys_config.h"
#include "cos_defines.h"

int main(int argc, char *argv[]) {
    // 1. Specify the path of the configuration file and initialize CosConfig
    qcloud_cos::CosConfig config("./config.json");
    qcloud_cos::CosAPI cos(config);

    // 2. Construct a request to delete an object
    std::string bucket_name = "examplebucket-1250000000"; // Bucket name in the for
```

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```
    std::string object_name = "exampleobject"; // `exampleobject` is the object key
    // 3. Call the object deleting API
    qcloud_cos::DeleteObjectReq req(bucket_name, object_name);
    qcloud_cos::DeleteObjectResp resp;
    qcloud_cos::CosResult result = cos.DeleteObject(req, &resp);

    // 4. Process the call result
    if (result.IsSucc()) {
        // Deleted the object successfully
    } else {
        // Failed to delete the object. You can call the CosResult member functions
        std::cout << "HttpStatus=" << result.GetHttpStatus() << std::endl;
        std::cout << "ErrorCode=" << result.GetErrorCode() << std::endl;
        std::cout << "ErrorMsg=" << result.GetErrorMsg() << std::endl;
        std::cout << "ResourceAddr=" << result.GetResourceAddr() << std::endl;
        std::cout << "XCosRequestId=" << result.GetXCosRequestId() << std::endl;
        std::cout << "XCosTraceId=" << result.GetXCosTraceId() << std::endl;
    }
}
```

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Image Processing
Persistent Image Processing

Last updated：2024-02-29 16:13:43

Overview

This document provides an overview of APIs and SDK code samples for persistent image processing.

API	Description
Persistent image processing	Processes images persistently.

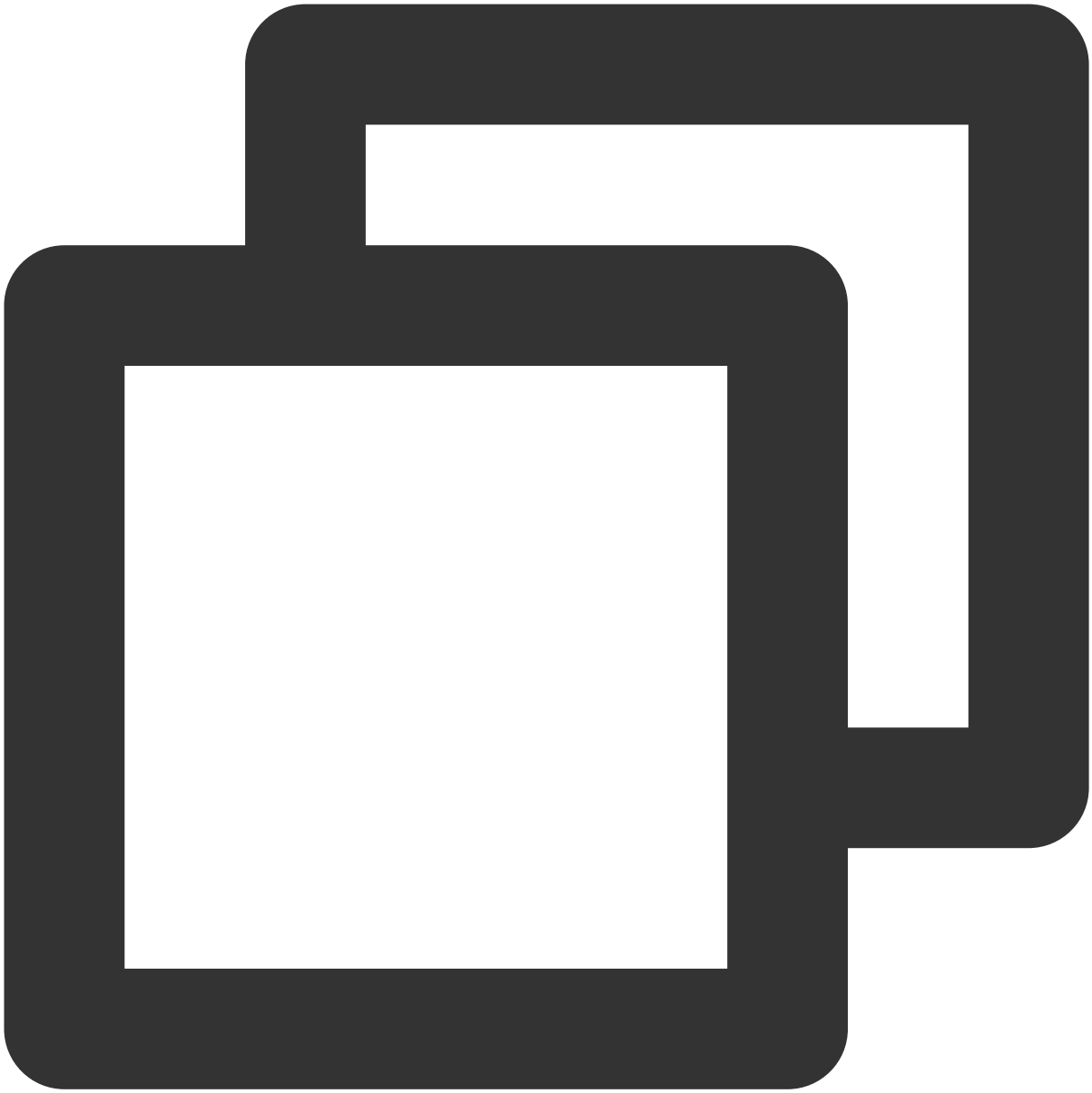
Processing during upload

Feature description

CI allows you to process images during upload and save the input images and processing results to COS. Currently, images within 20 MB can be processed.

Method prototype

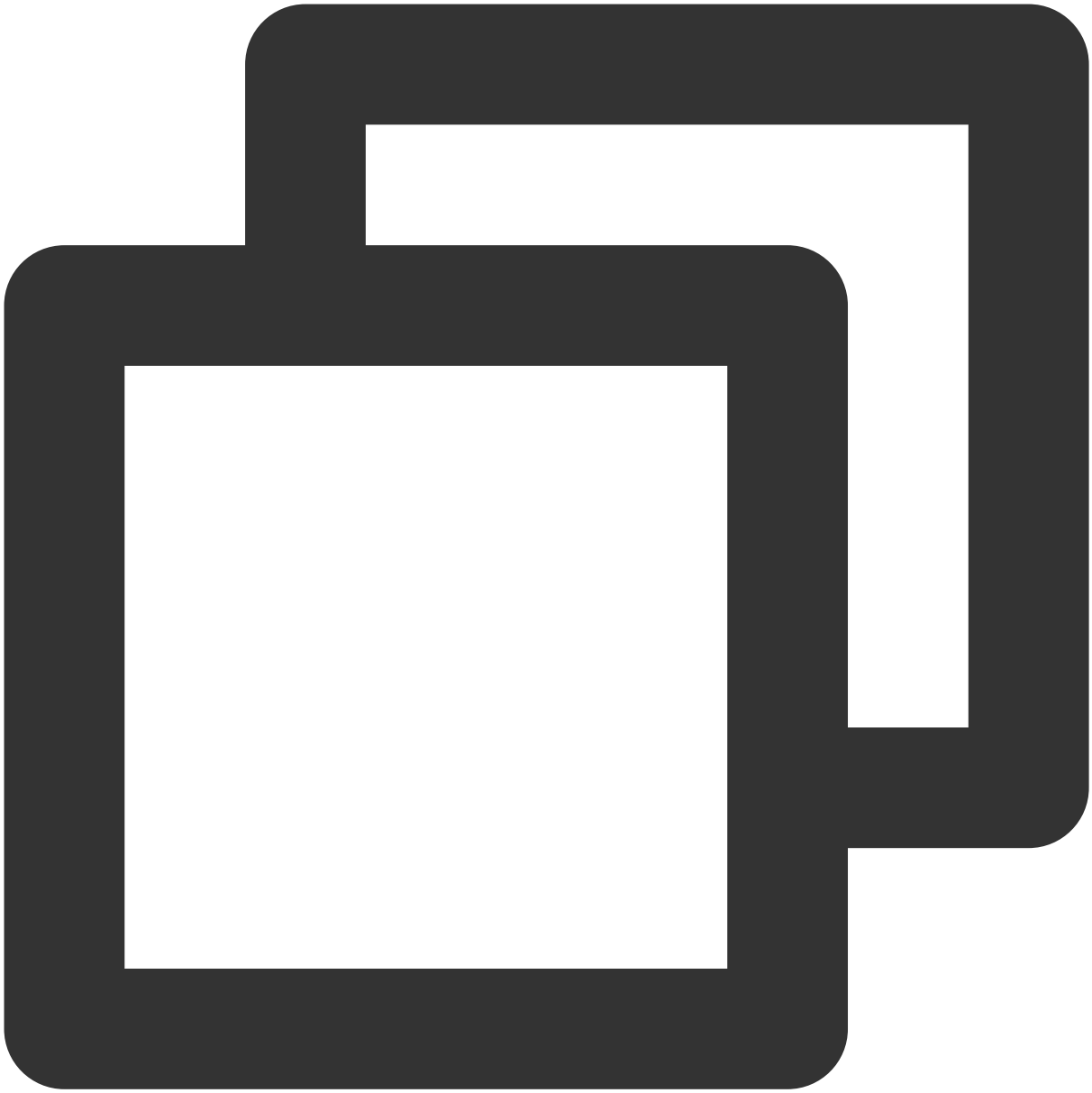
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```
CosResult PutImage(const PutImageByFileReq& request, PutImageByFileResp* response);
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

PutImageByFileReq req(bucket_name, object_name, local_file);
PutImageByFileResp resp;

PicOperation pic_operation;

PicRules rule;
// Path of the processing result file. If the path starts with `/`, the result file
```

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```
rule.fileid = "/" + object_name + "_sharpen";
// Sharpening parameter
rule.rule = "imageMogr2/sharpen/70";
pic_operation.AddRule(rule);

rule.fileid = "/" + object_name + "_rotate";
// Rotation parameter
rule.rule = "imageMogr2/rotate/90";
pic_operation.AddRule(rule);

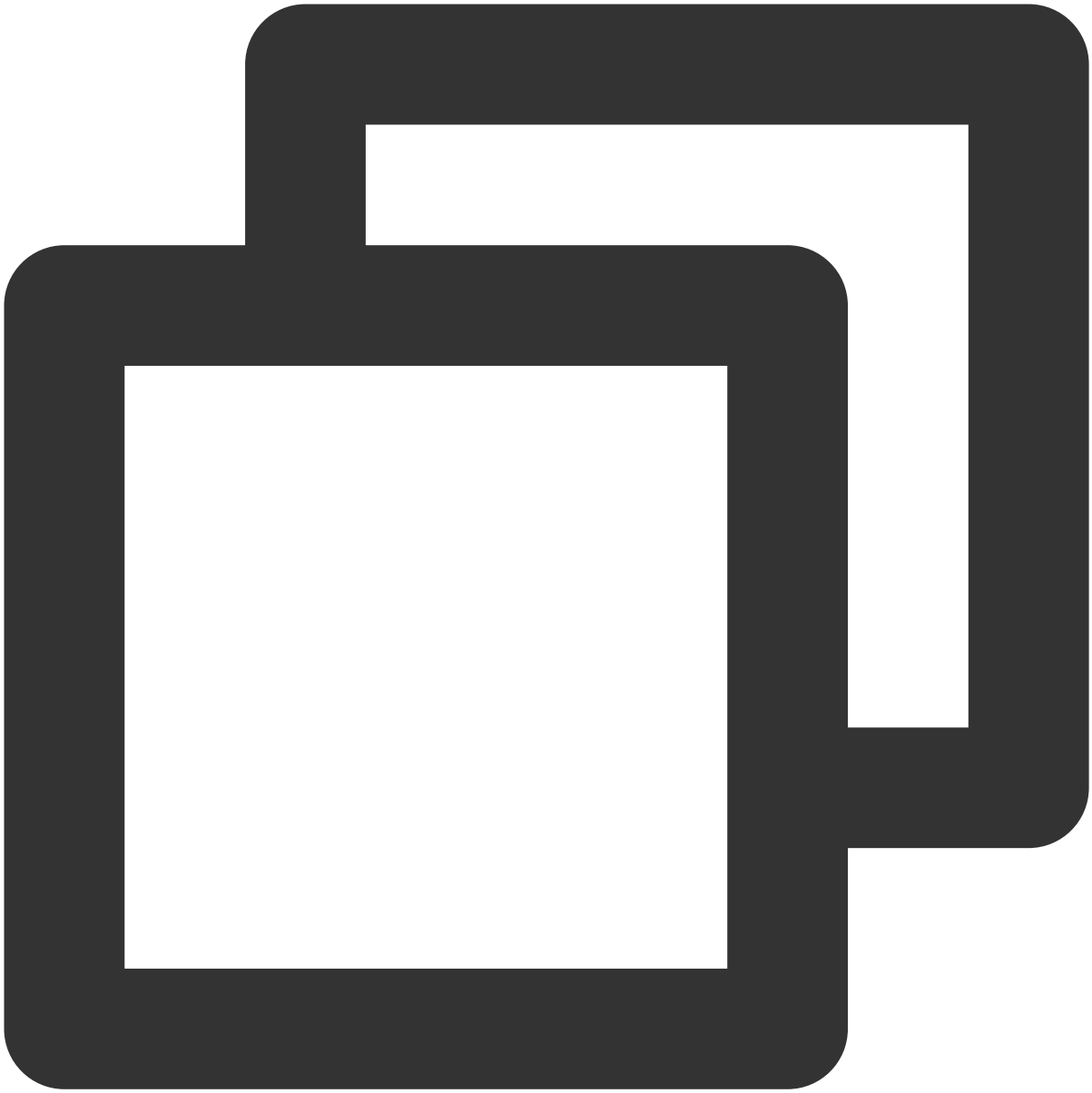
CosResult result = cos.PutImage(req, &resp);
if (result.IsSucc()) {
   // The call is successful. You can call the `resp` member functions to get the r
   std::cout << "ProcessResult: " << resp.GetUploadResult().to_string() << std::end
} else {
   // The call failed. You can call the `result` member functions to get the error
}
```

Parameter description

Parameter	Description	Type	Required
req	`PutImage` operation request.	PutImageByFileReq	Yes
resp	`PutImage` operation response.	PutImageByFileResp	Yes

`req` involves the following structures:

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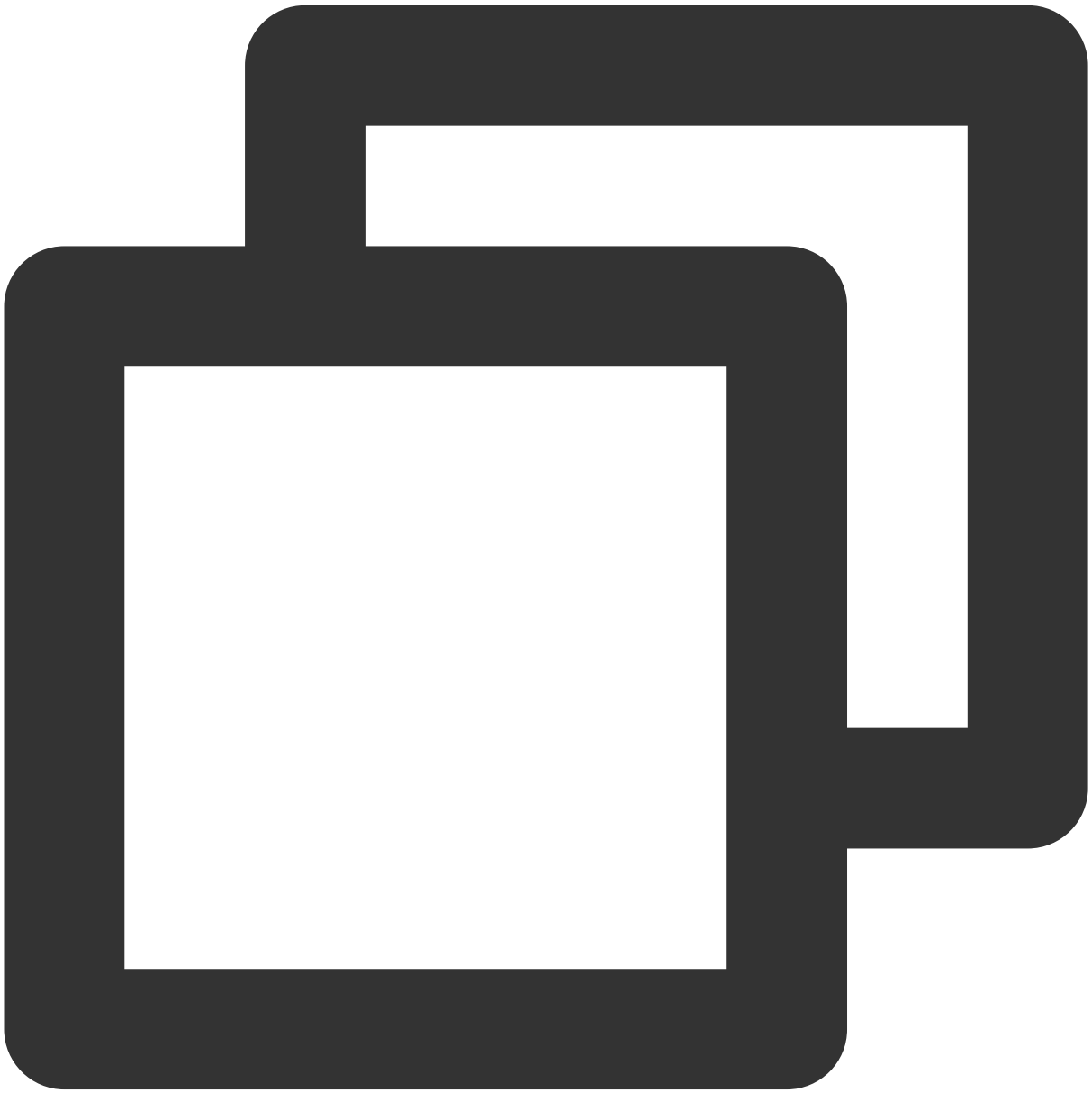
```
struct PicRules {
  std::string bucket;  // Name of the destination bucket to store the results in th
  std::string fileid;  // Path of the processing result file. If the path starts wi
  std::string rule;  // Processing parameters. For more information, see the COS im
};

class PicOperation {
 public:
  PicOperation() : is_pic_info(true) {}
  virtual ~PicOperation() {}
  void AddRule(const PicRules& rule) { rules.push_back(rule); }
```

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```
  void TurnOffPicInfo() { is_pic_info = false; }
 private:
  boolis_pic_info;  // Whether to return the input image information. Valid values:
  std::vector<PicRules> rules;  // Processing rules (up to five rules are supported
};
```

`resp` involves the following structures:



```
struct CodeLocation {
  std::vector<std::string> points;  // QR code coordinates
};
```

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```
struct QRcodeInfo {
  std::string code_url;        // QR code content. Content may not be recognized.
  CodeLocation code_location;  // Location coordinates of the QR code recognized in

};

struct Object {
  std::string key;       // Filename
  std::string location;  // Image path
  std::string format;    // Image format
  int width;             // Image width
  int height;            // Image height
  int size;              // Image size
  int quality;           // Image quality
  std::string etag;      // `ETag` of the processing result image
  int code_status;  // Whether QR codes are recognized. 0: no; 1: yes.
  int watermark_status;  // When `type`
                         // is 2, this field will be returned to indicate the confi
                         //  Value range: 0-100. If the value is above 75, there is
  std::vector<QRcodeInfo> qr_code_info;  // Recognized QR code. There may be multip
};

struct ProcessResults {
  std::vector<Object> objects;  // There may be multiple objects
};

struct ImageInfo {
  std::string format;  // Format
  int width;           // Image width
  int height;          // Image height
  int quality;         // Image quality
  std::string ave;     // Image average hue
  int orientation;     // Image rotation angle
};

struct UploadResult {
  OriginalInfo original_info;  // Input image information
  ProcessResults process_result;  // Image processing result
};
```

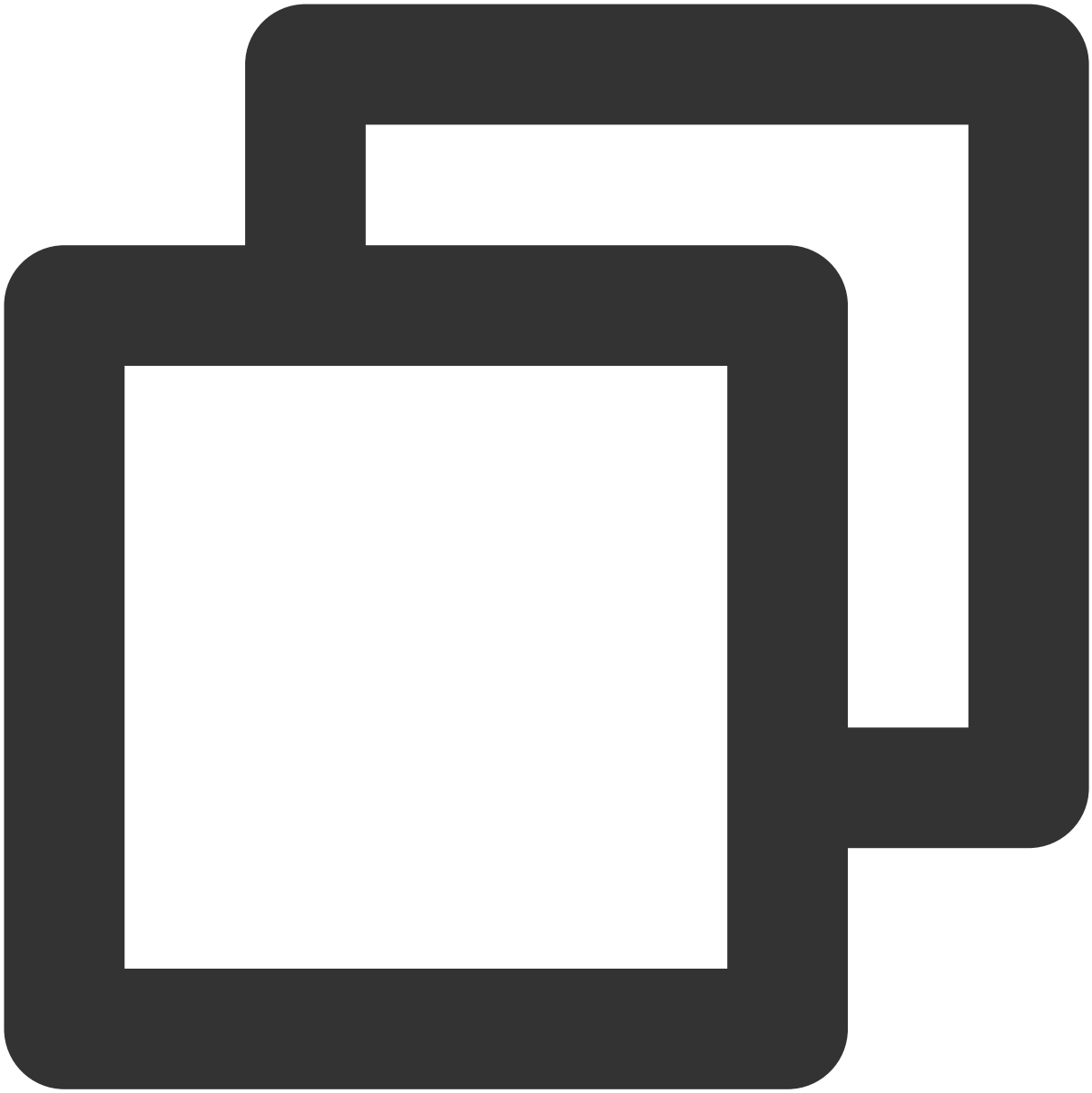
Processing in-cloud image

Feature description

This feature can process an image stored in COS and save the processing result to COS.

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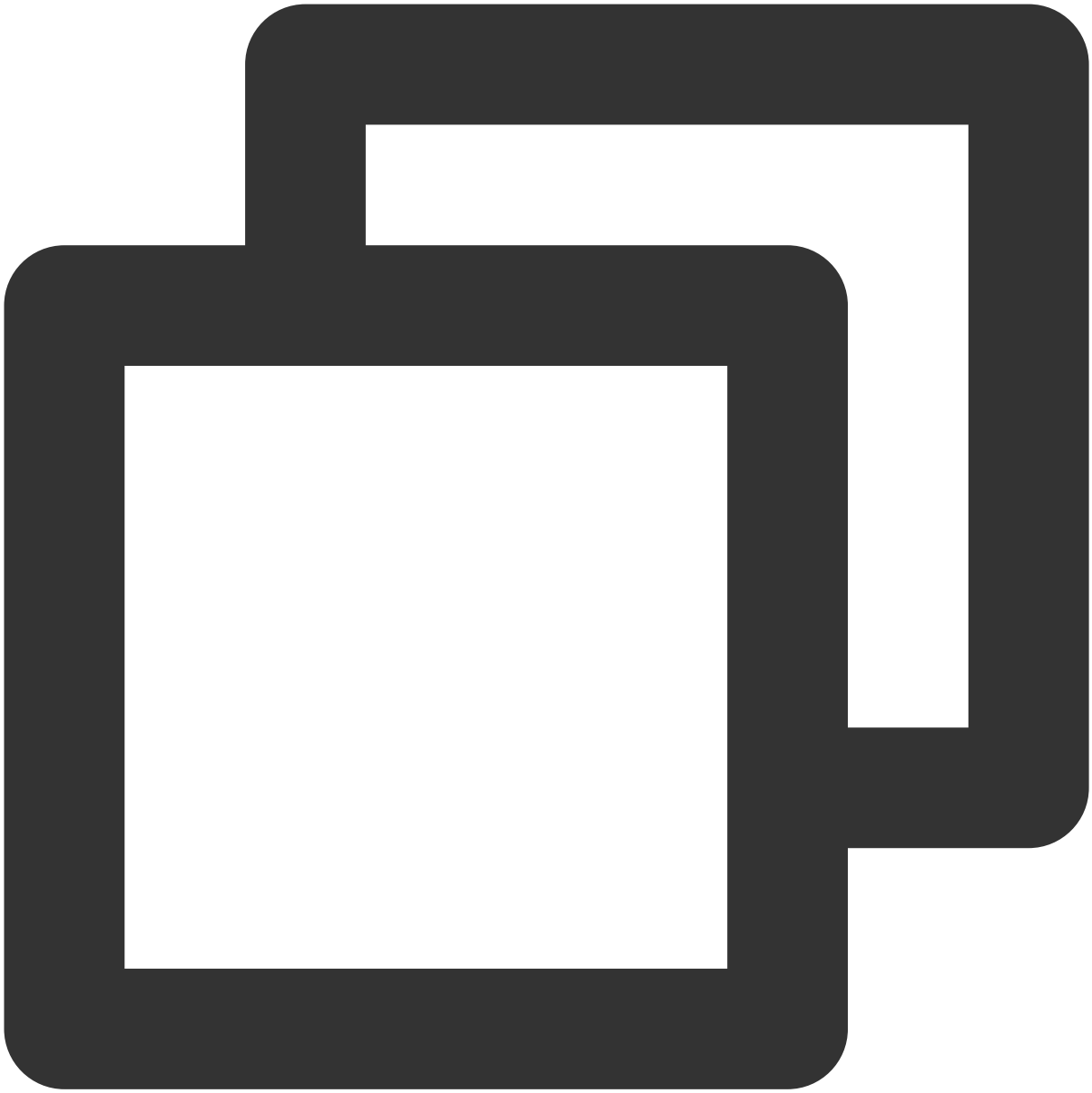
Method prototype



```
CosResult CloudImageProcess(const CloudImageProcessReq& request, CloudImageProcessR
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

CloudImageProcessReq req(bucket_name, object_name);
CloudImageProcessResp resp;

PicOperation pic_operation;
PicRules rule;
// Path of the processing result file. If the path starts with `/`, the result file
rule.fileid = "/" + object_name + "_thumbnail";
```

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```
// Scaling parameter
rule.rule = "imageMogr2/thumbnail/!30p";
pic_operation.AddRule(rule);

rule.fileid = "/" + object_name + "_cut";
// Cropping parameter
rule.rule = "imageMogr2/cut/300x300";
pic_operation.AddRule(rule);
req.SetPicOperation(pic_operation);

CosResult result = cos.CloudImageProcess(req, &resp);
if (result.IsSucc()) {
   // The call is successful. You can call the `resp` member functions to get the r
} else {
   // The call failed. You can call the `result` member functions to get the error
}
```

Parameter description

Parameter	Description	Type	Required
req	`PutImage` operation request.	PutImageByFileReq	Yes
resp	`PutImage` operation response.	PutImageByFileResp	Yes

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Basic Image Processing

Last updated：2024-02-29 16:13:43

Overview

COS has integrated Cloud Infinite (CI), a one-stop professional multimedia solution that offers the image processing features as outlined below. For more information, see Image Processing Overview.

Service	Feature	Description
Basic image processing	Scaling	Proportional scaling, scaling image to target width and height
	Cropping	Regular cropping, cropping and scaling, cropping to circle, smart face cropping
	Rotation	Adaptive rotation, regular rotation
	Format conversion	Format conversion, GIF format optimization, progressive display
	Quality change	Quality change for JPG and WebP images
	Gaussian blurring	Image blurring
	Sharpening	Image sharpening
	Watermarking	Image watermark, text watermark
	Image information acquisition	Basic information, EXIF information, average hue
	Metadata removal	Including EXIF information
	Quick thumbnail template	Quick image format conversion, scaling, and cropping for thumbnail generation
	Style configuration	Image style configuration for easy image management

Basic Image Processing

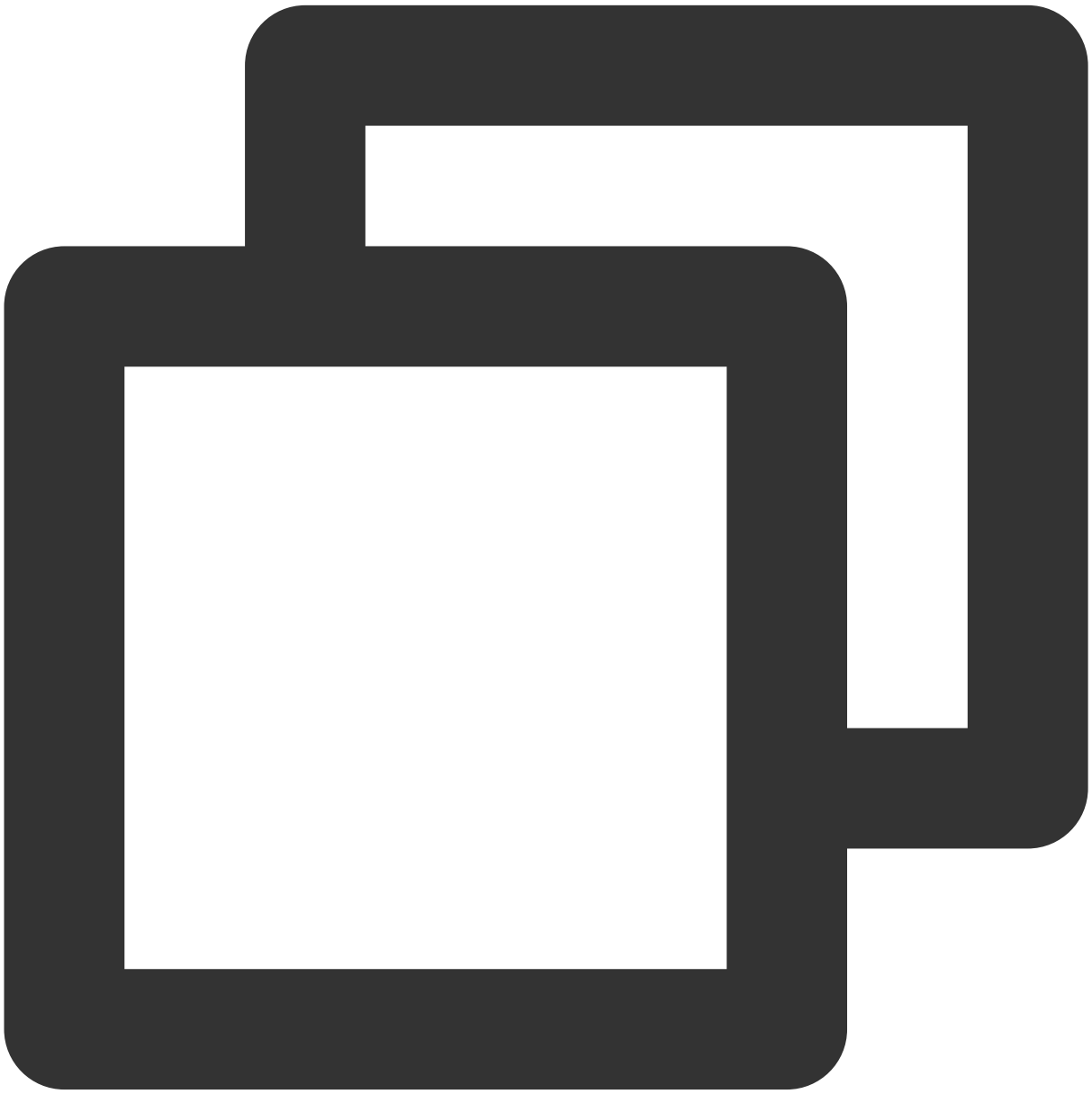
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Scaling

Feature description

Proportional scaling, scaling image to target width and height, etc.

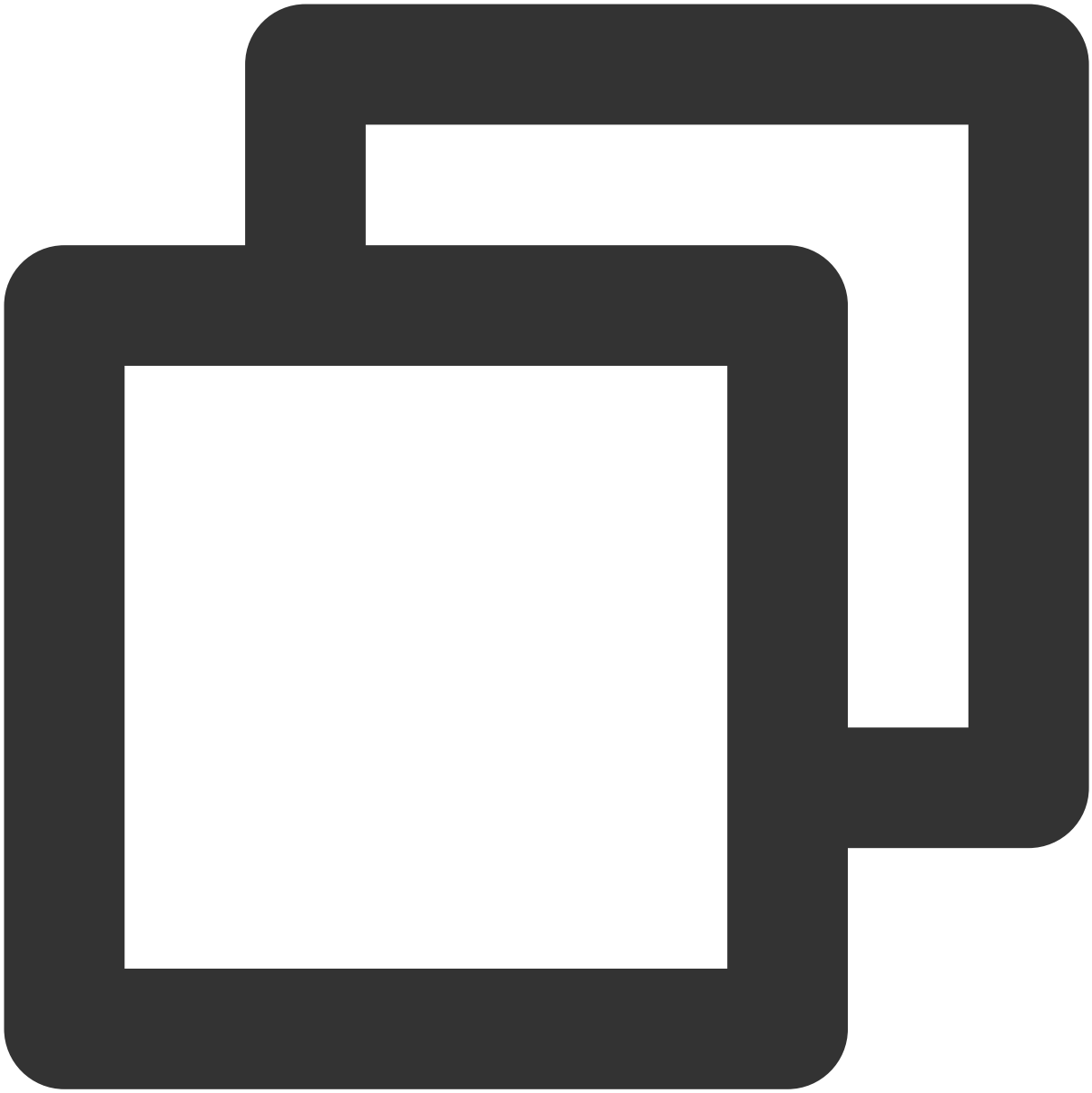
Method prototype



```
CosResult GetObject(const GetObjectByFileReq& request, GetObjectByFileResp* respons
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

qcloud_cos::GetObjectByFileReq req(bucket_name, object_name, local_file);
// Scale an image to 50% of its original width and height
req.AddParam("imageMogr2/thumbnail/!50p", "");
qcloud_cos::GetObjectByFileResp resp;
qcloud_cos::CosResult result = cos.GetObject(req, &resp);
if (result.IsSucc()) {
   // The call is successful. You can call the `resp` member functions to get the r
```

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```
} else {
   // The call failed. You can call the `result` member functions to get the error
}
```

Parameter description

Parameter	Description	Type	Required
req	`GetObject` operation request	GetObjectByFileReq	Yes
resp	`GetObject` operation response	GetObjectByFileResp	Yes

Cropping

Feature description

Similar to the scaling operation.

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Blind Watermark

Last updated：2024-02-29 16:13:43

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.

API	Description
Blind watermarking	Adds blind watermark to or extracts blind watermark from local image and uploads it to bucket

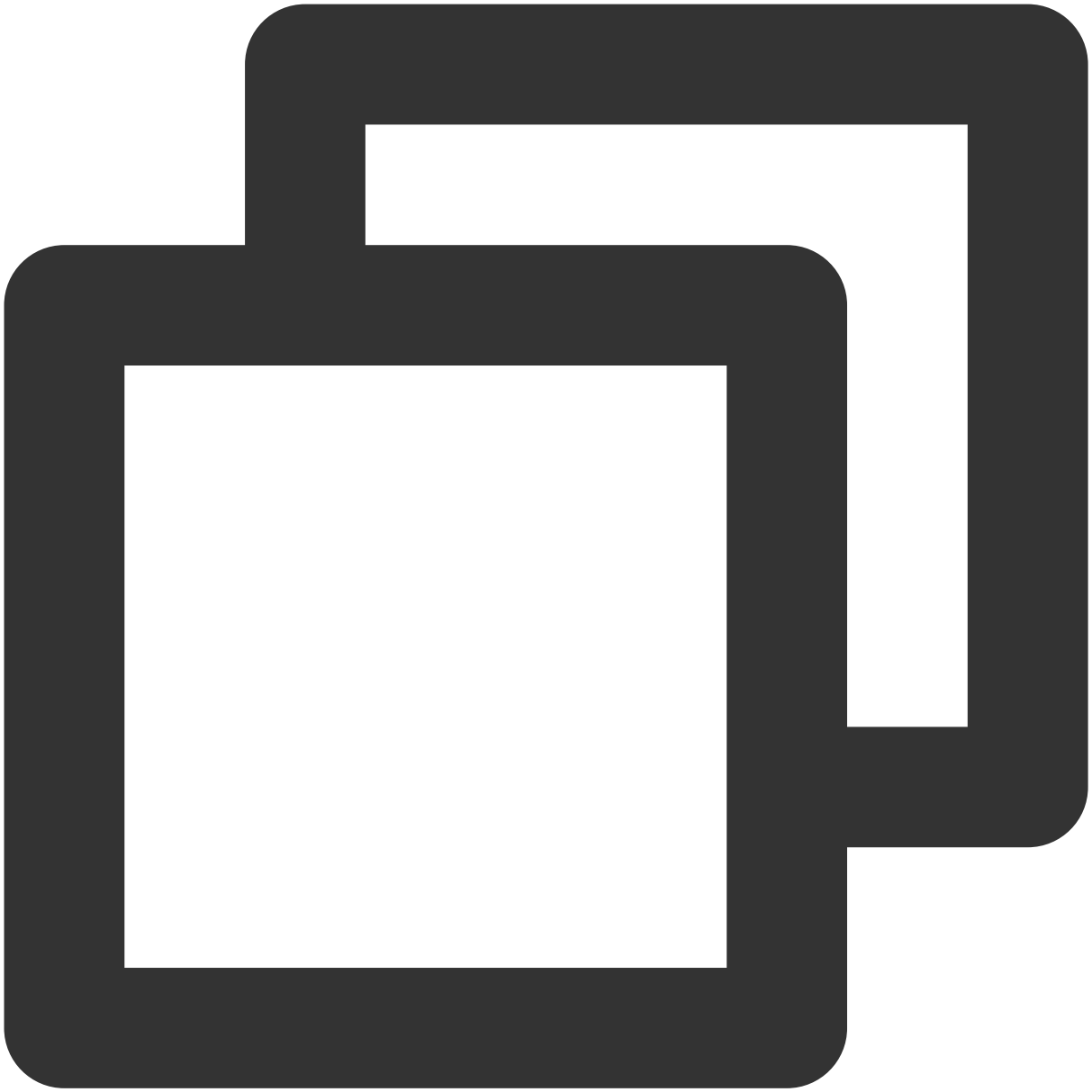
Adding Blind Watermark During Upload

Feature description

This API is used to add a blind watermark when uploading images.

Method prototype

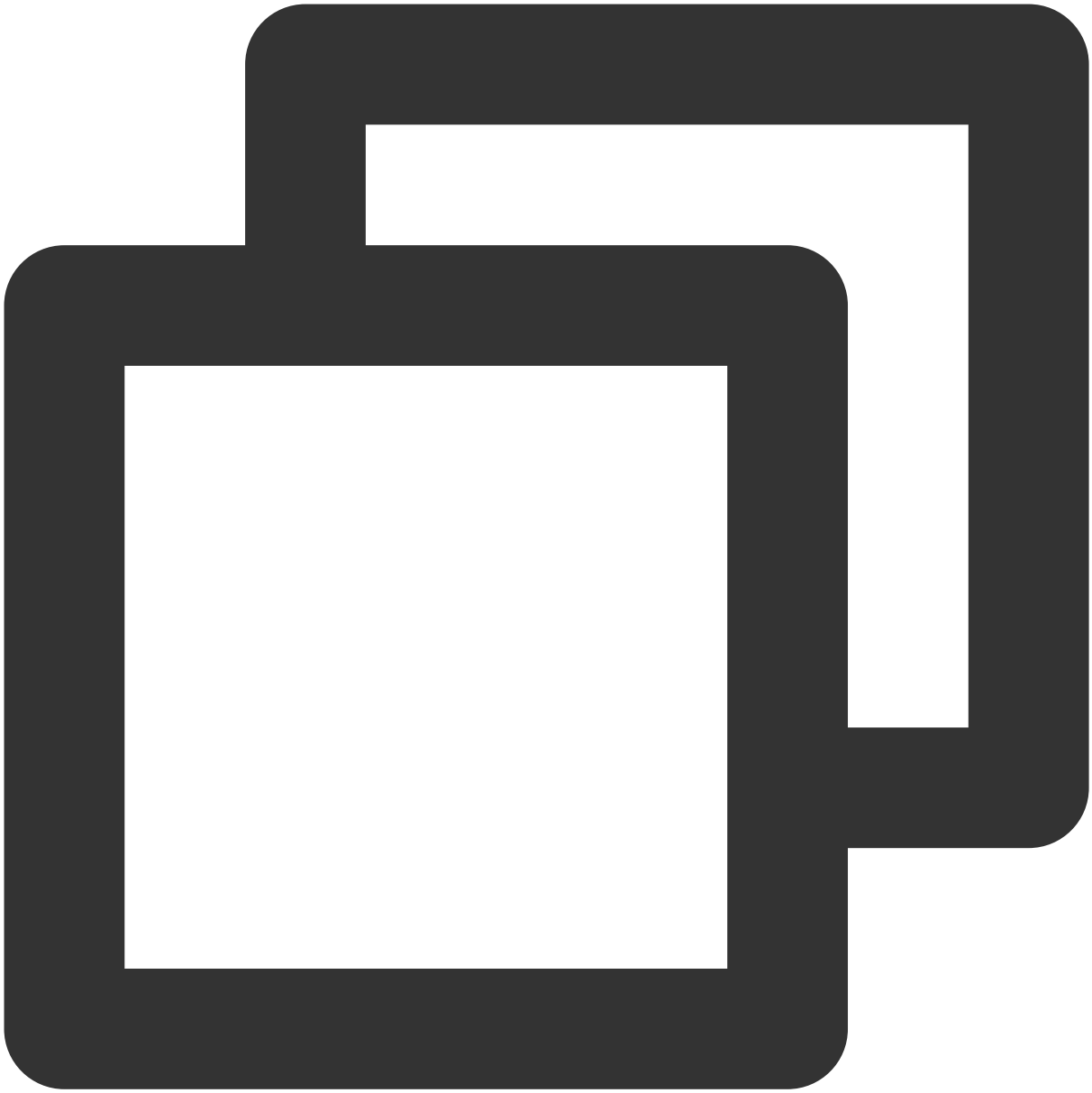
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```
CosResult PutImage(const PutImageByFileReq& request, PutImageByFileResp* response);
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

PutImageByFileReq req(bucket_name, object_name, local_file);
PutImageByFileResp resp;

PicOperation pic_operation;
PicRules rule;
// File storage path
rule.fileid = "/" + object_name + "_watermark";
```

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```
// URL-safe Base64-encoded URL of the blind watermark image
std::string image = "http://" + bucket_name + ".cos.ap-guangzhou.myqcloud.com/" + o
// Blind watermark processing parameter
rule.rule = "watermark/3/type/1/image/" + CodecUtil::Base64Encode(image);
pic_operation.AddRule(rule);

CosResult result = cos.PutImage(req, &resp);
if (result.IsSucc()) {
   // The call is successful. You can call the `resp` member functions to get the r
} else {
   // The call failed. You can call the `result` member functions to get the error
}
```

Parameter description

Parameter	Description	Type	Required
req	`PutImage` operation request.	PutImageByFileReq	Yes
resp	`PutImage` operation response.	PutImageByFileResp	Yes

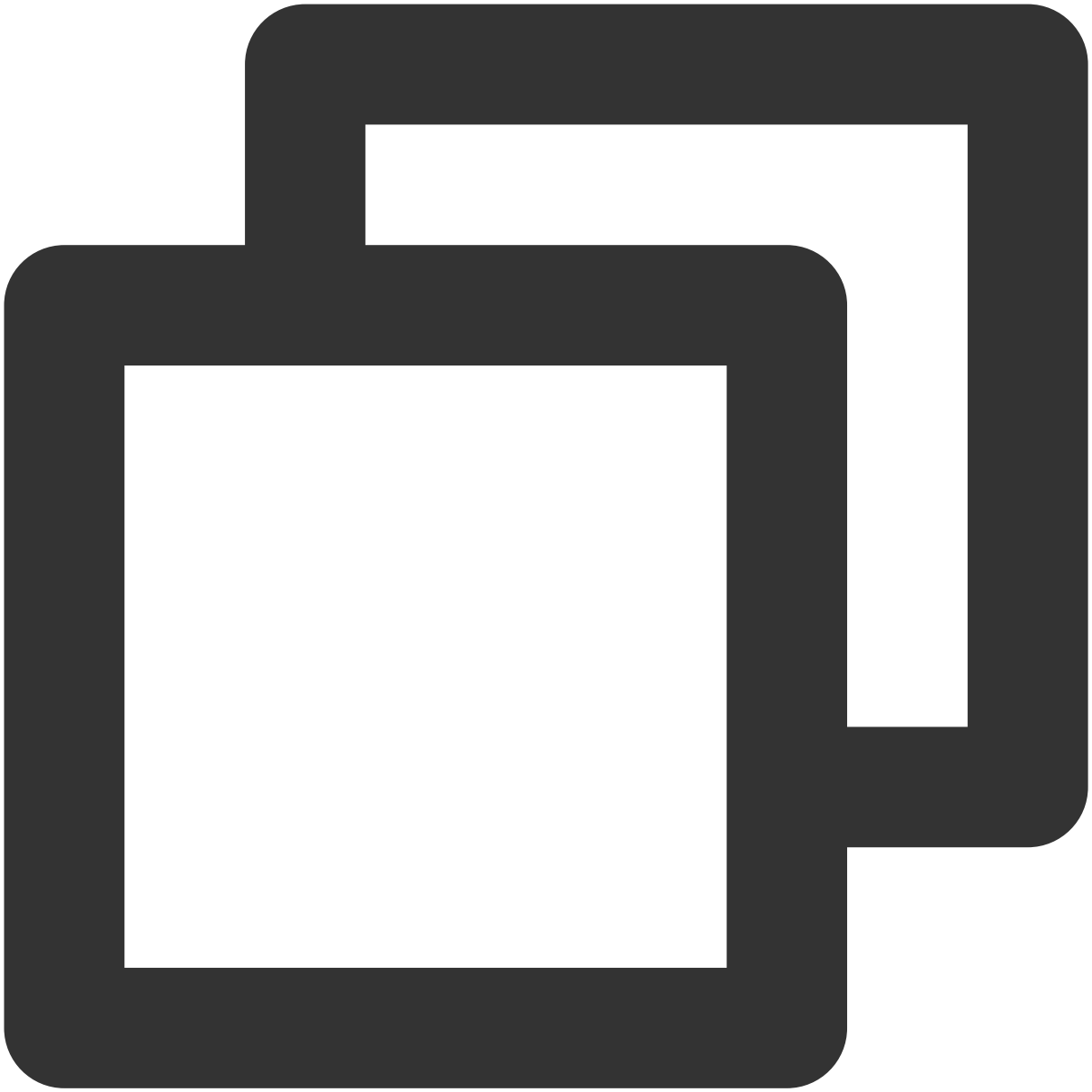
Adding Blind Watermark During Download

Feature description

This API is used to add a blind watermark when downloading images.

Method prototype

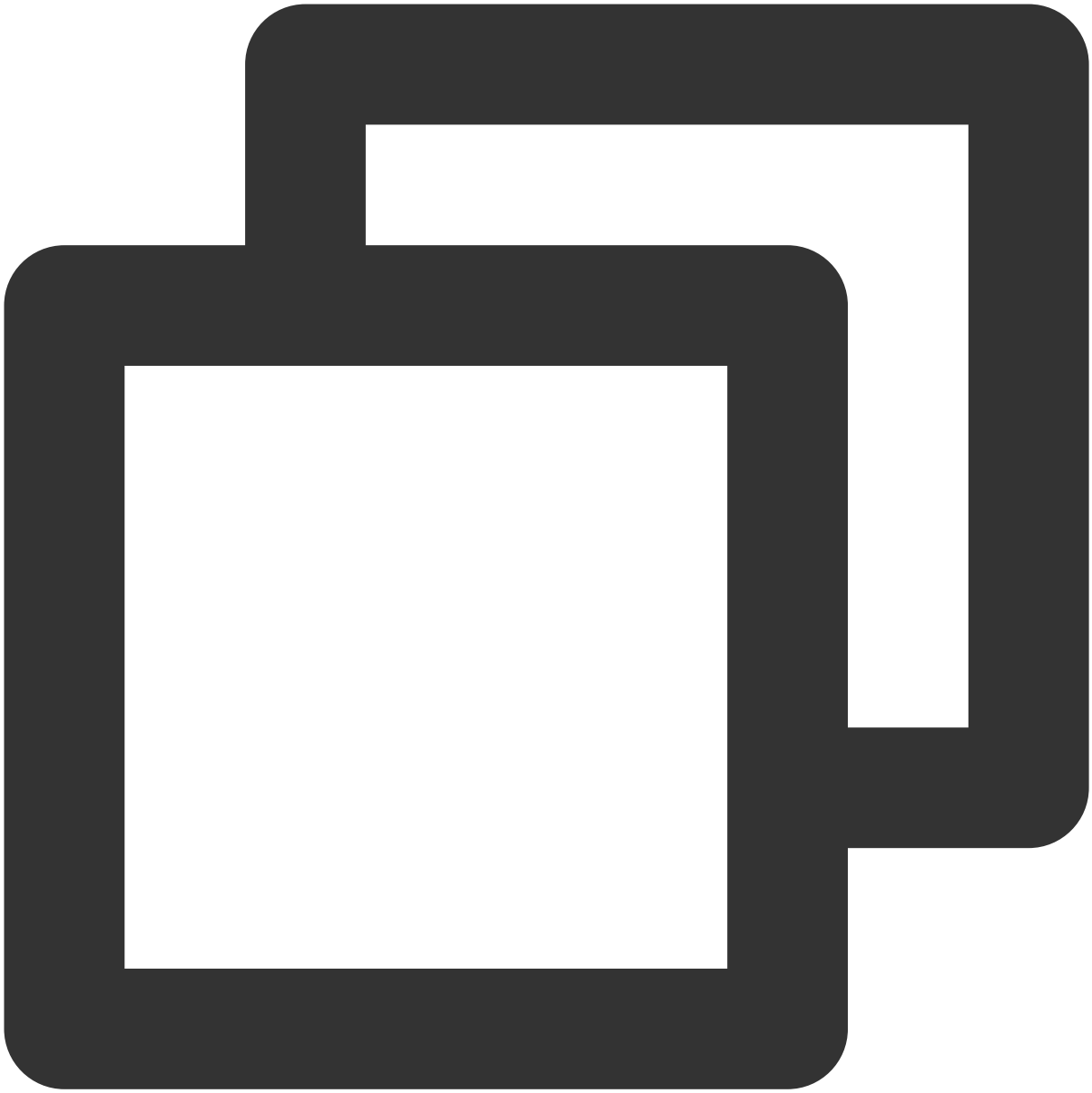
©2013-2022 Tencent Cloud. All rights reserved.



```
CosResult GetObject(const GetObjectByFileReq& request, GetObjectByFileResp* respons
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

GetObjectByFileReq req(bucket_name, object_name, local_file);
GetObjectByFileResp resp;

// Blind watermark text
std::string watermark_text = "test";
// URL-safe Base64-encoded blind watermark parameter
std::string watermark_param = "watermark/3/type/3/text/" + CodecUtil::Base64Encode(
```

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```
req.AddParam(watermark_param, "");

CosResult result = cos.GetObject(req, &resp);
if (result.IsSucc()) {
   // The call is successful. You can call the `resp` member functions to get the r
} else {
   // The call failed. You can call the `result` member functions to get the error
}
```

Parameter description

Parameter	Description	Type	Required
req	`PutImage` operation request.	PutImageByFileReq	Yes
resp	`PutImage` operation response.	PutImageByFileResp	Yes

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Media Processing
Media Bucket APIs

Last updated：2024-02-29 16:13:43

Overview

This document provides an overview of APIs and SDK code samples for media buckets.

API	Operation	Description
DescribeMediaBuckets	Querying media processing activation status	Queries buckets with media processing enabled

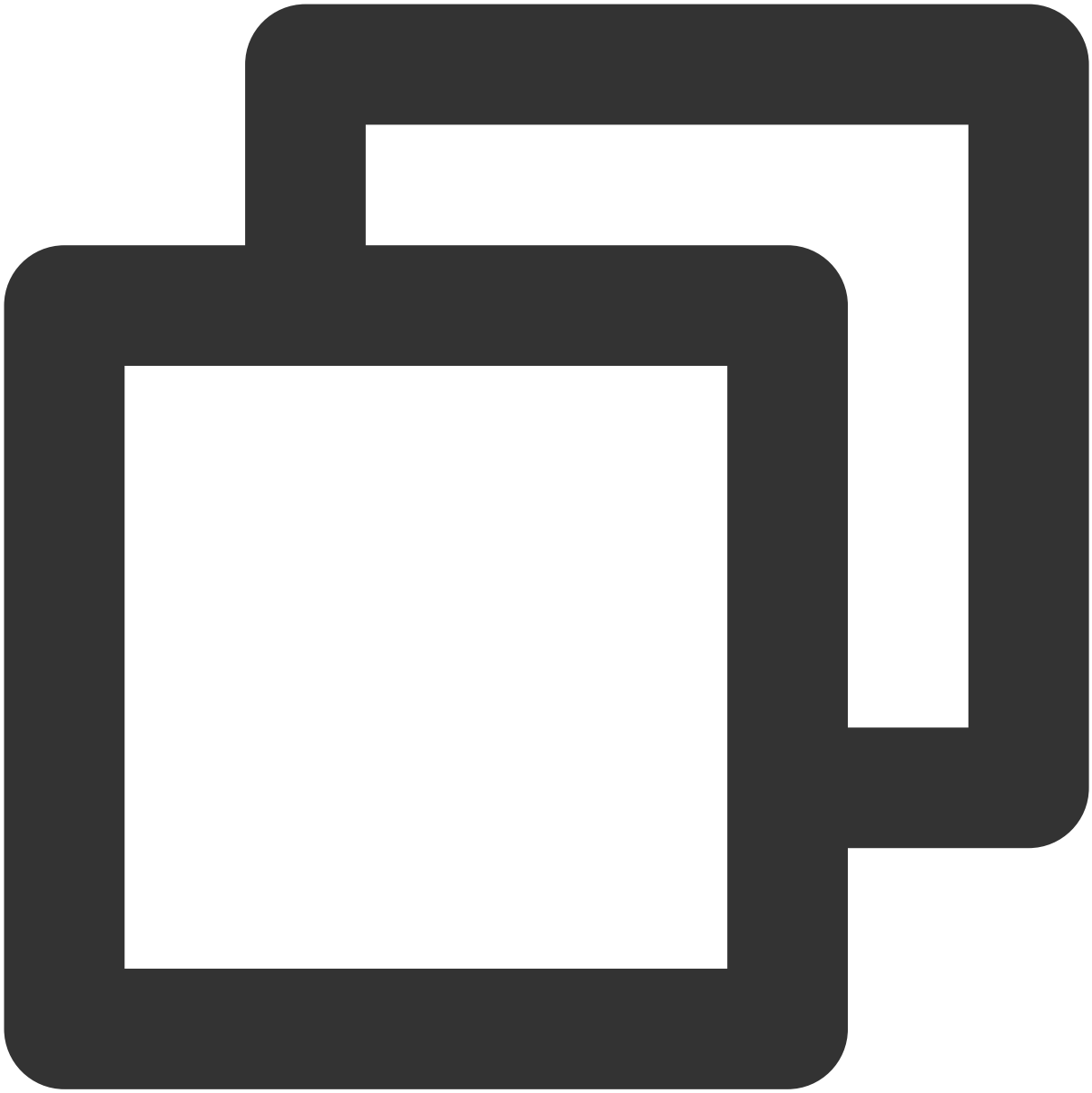
Querying Media Processing Activation Status

Feature description

This API is used to query buckets with media processing enabled.

Method prototype

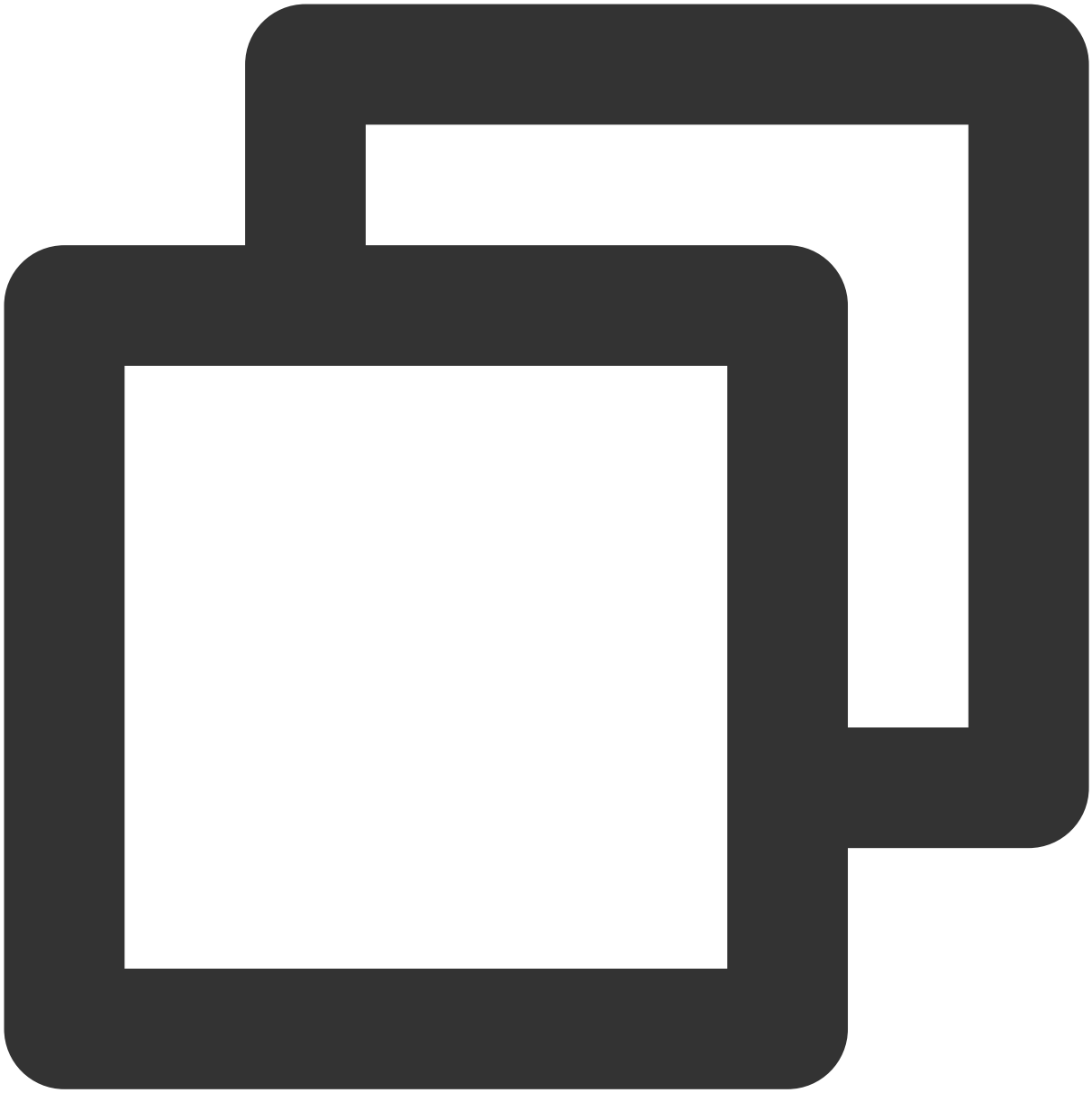
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```
CosResult DescribeMediaBuckets(const DescribeMediaBucketsReq& request, DescribeMedi
```

Sample code

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
DescribeMediaBucketsReq req;
DescribeMediaBucketsResp resp;
req.SetRegions("ap-guangzhou");
// Set the bucket name. To specify multiple bucket names, separate them with commas
// req.SetBucketNames("xxx");
// Set the bucket name prefix for prefix search
// req.SetBucketName("xxx");
// Set the page number
// req.SetPageNumber();
```

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```
// Set the number of entries per page
// req.SetPageSize();
CosResult result = cos.DescribeMediaBuckets(req, &resp);
qcloud_cos::CosResult result = cos.GetObject(req, &resp);
if (result.IsSucc()) {
   // The call is successful. You can call the `resp` member functions to get the r
   std::cout << "Result: " << resp.GetResult().to_string() << std::endl;
} else {
   // The call failed. You can call the `result` member functions to get the error
}
```

Parameter description

Parameter	Description	Type	Required
request	Operation request.	DescribeMediaBucketsReq	Yes
response	Operation response.	DescribeMediaBucketsResp	Yes

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Media Information APIs

Last updated：2024-02-29 16:13:43

Overview

This document provides an overview of APIs and SDK code samples for media information.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

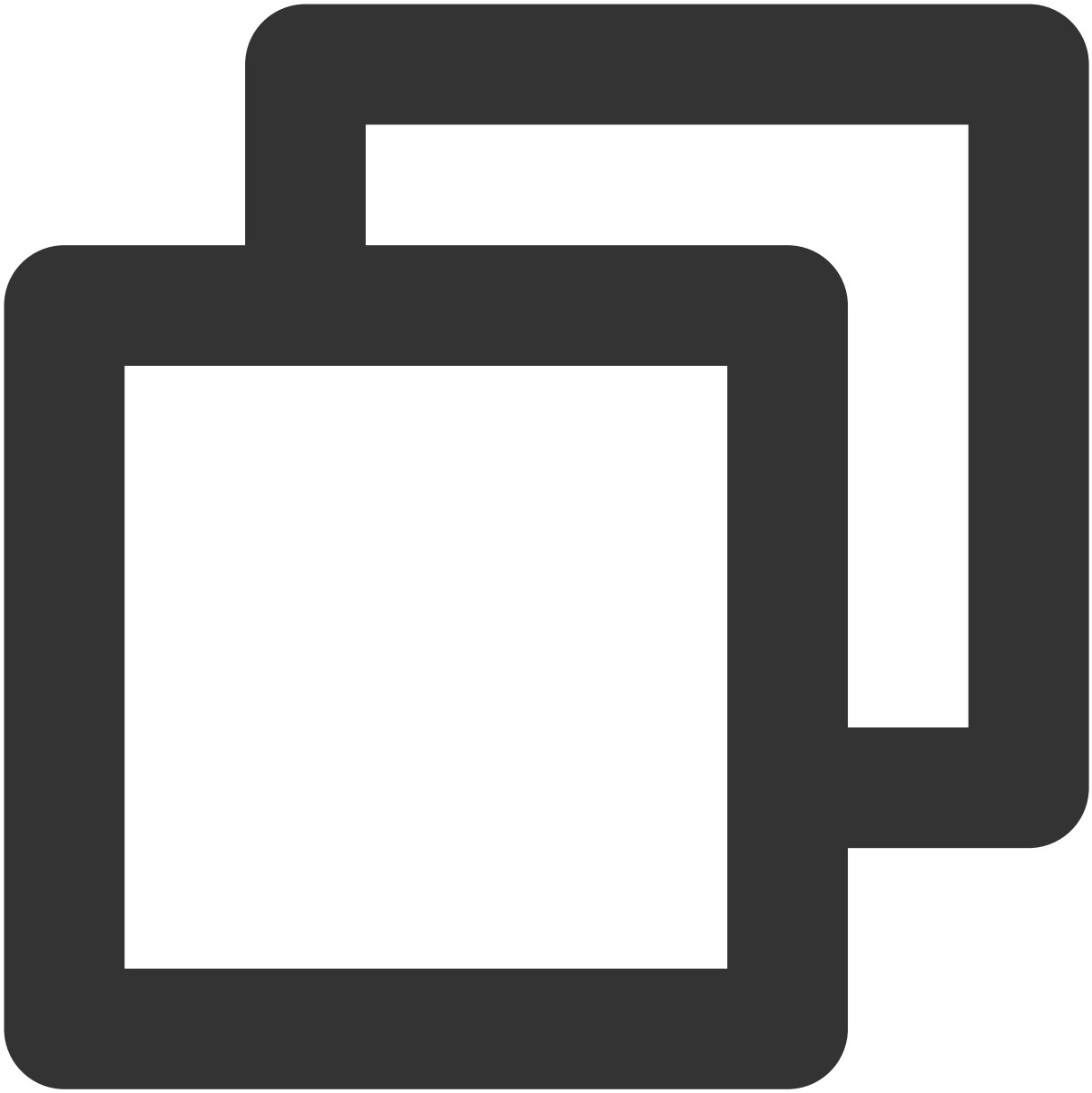
Querying File Information

Feature description

This API is used to get media file information.

Method prototype

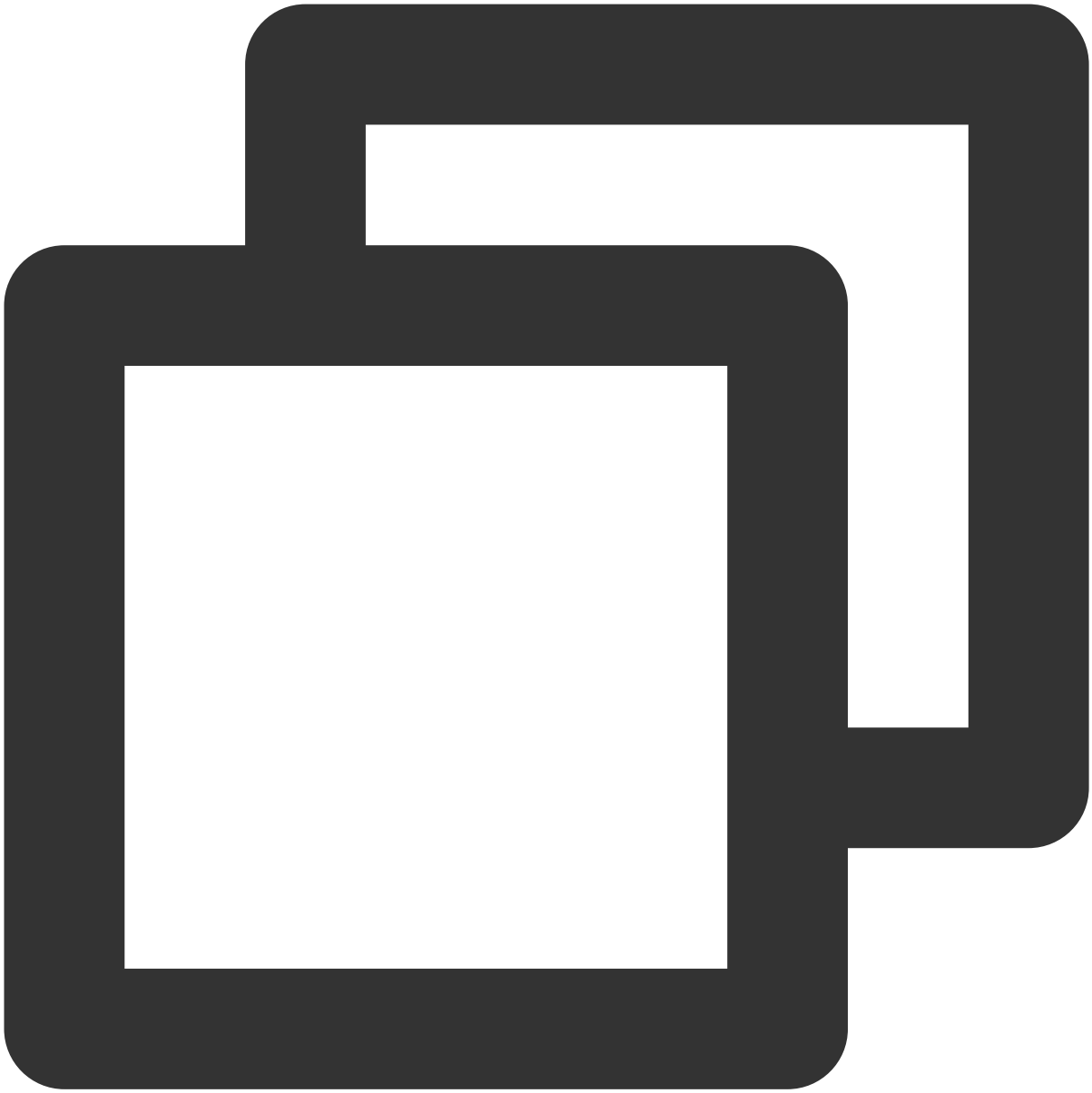
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```
CosResult GetMediaInfo(const GetMediaInfoReq& request, GetMediaInfoResp* response);
```

Sample code

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
GetMediaInfoReq req(bucket_name, object_name);
GetMediaInfoResp resp;
CosResult result = cos.GetMediaInfo(req, &resp);
if (result.IsSucc()) {
   // The call is successful. You can call the `resp` member functions to get the r
   std::cout << "Result: " << resp.GetResult().to_string() << std::endl;
} else {
   // The call failed. You can call the `result` member functions to get the error
}
```

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Parameter description

Parameter	Description	Type	Required
request	Operation request.	GetMediaInfoReq	Yes
response	Operation response.	GetMediaInfoResp	Yes

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Media Screenshot APIs

Last updated：2024-02-29 16:13:43

Overview

This document provides an overview of APIs and SDK code samples for media screenshot.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

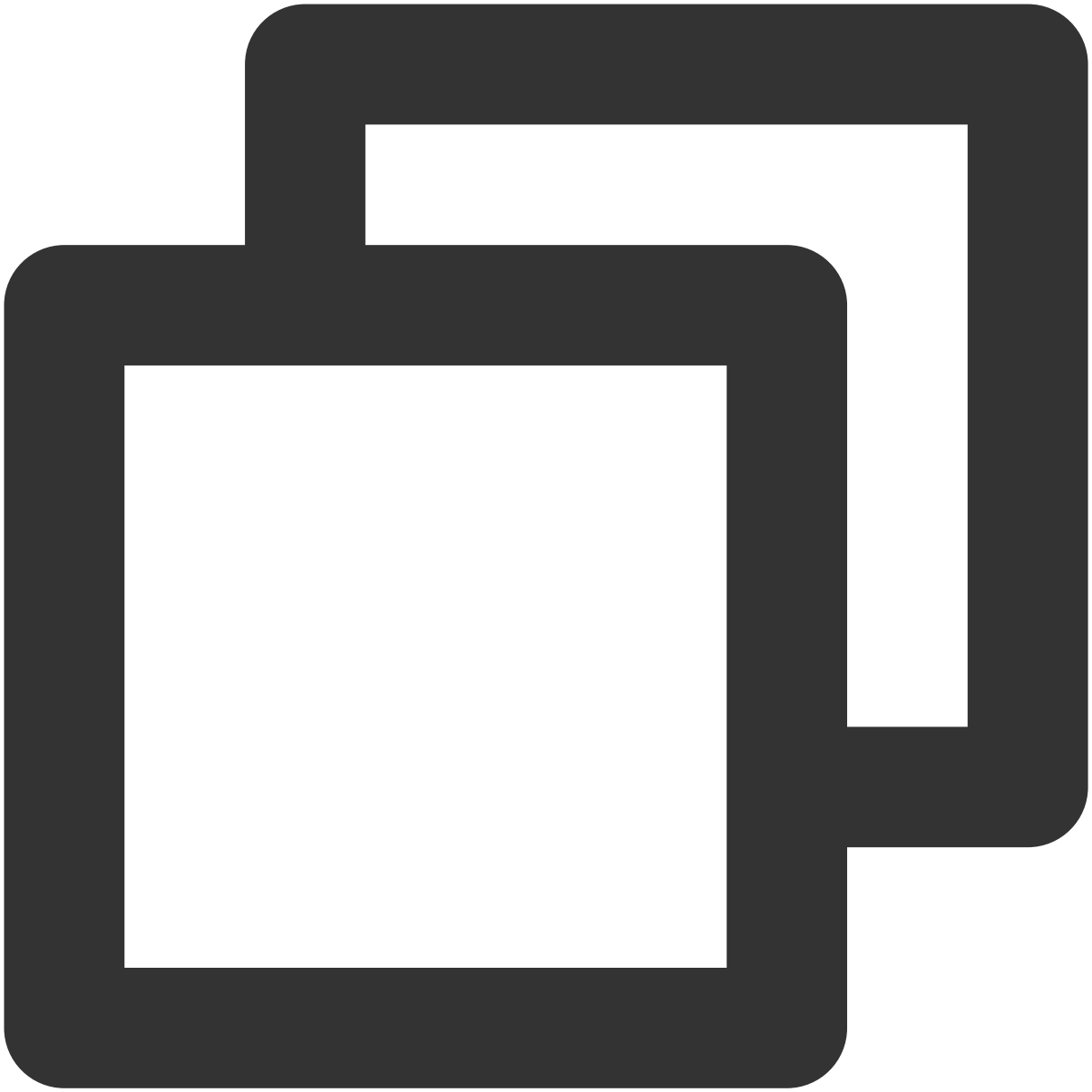
Querying Screenshot

Feature description

This API is used to get a screenshot of a media file at some time point and put the screenshot information in a local file.

Method prototype

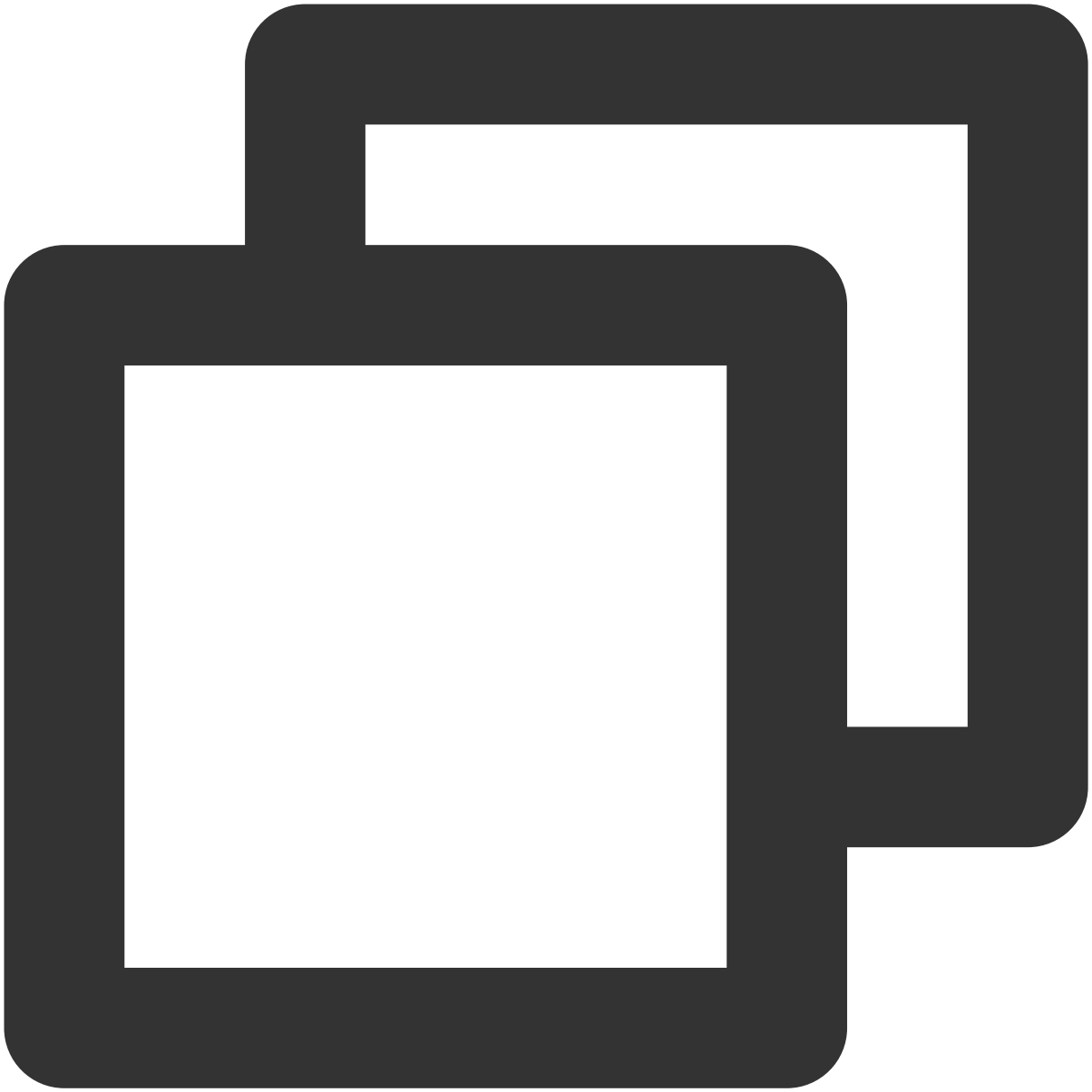
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```
CosResult GetSnapshot(const GetSnapshotReq& request, GetSnapshotResp* response);
```

Sample code

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
GetSnapshotReq req(bucket_name, object_name, local_file);
GetSnapshotResp resp;
req.SetTime(100);
// Set the screenshot width
// req.SetWitdh(xxx);
// Set the screenshot height
// req.SetHeight(xxx);
// Set the format
// req.SetFormat(xxx);
```

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```
CosResult result = cos.GetSnapshot(req, &resp);
if (result.IsSucc()) {
   // The call is successful. You can call the `resp` member functions to get the r
} else {
   // The call failed. You can call the `result` member functions to get the error
}
```

Parameter description

Parameter	Description	Type	Required
request	Operation request.	GetSnapshotReq	Yes
response	Operation response.	GetSnapshotResp	Yes

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Content Moderation
Image Moderation

Last updated：2024-02-29 16:13:43

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for image moderation.

API	Description
Moderating single image	Scans existing data stored in COS for porn, illegal, and advertising images.
Batch moderating images	Moderates multiple images in batches.
Querying image moderation job result	Queries the result of specified image moderation job.

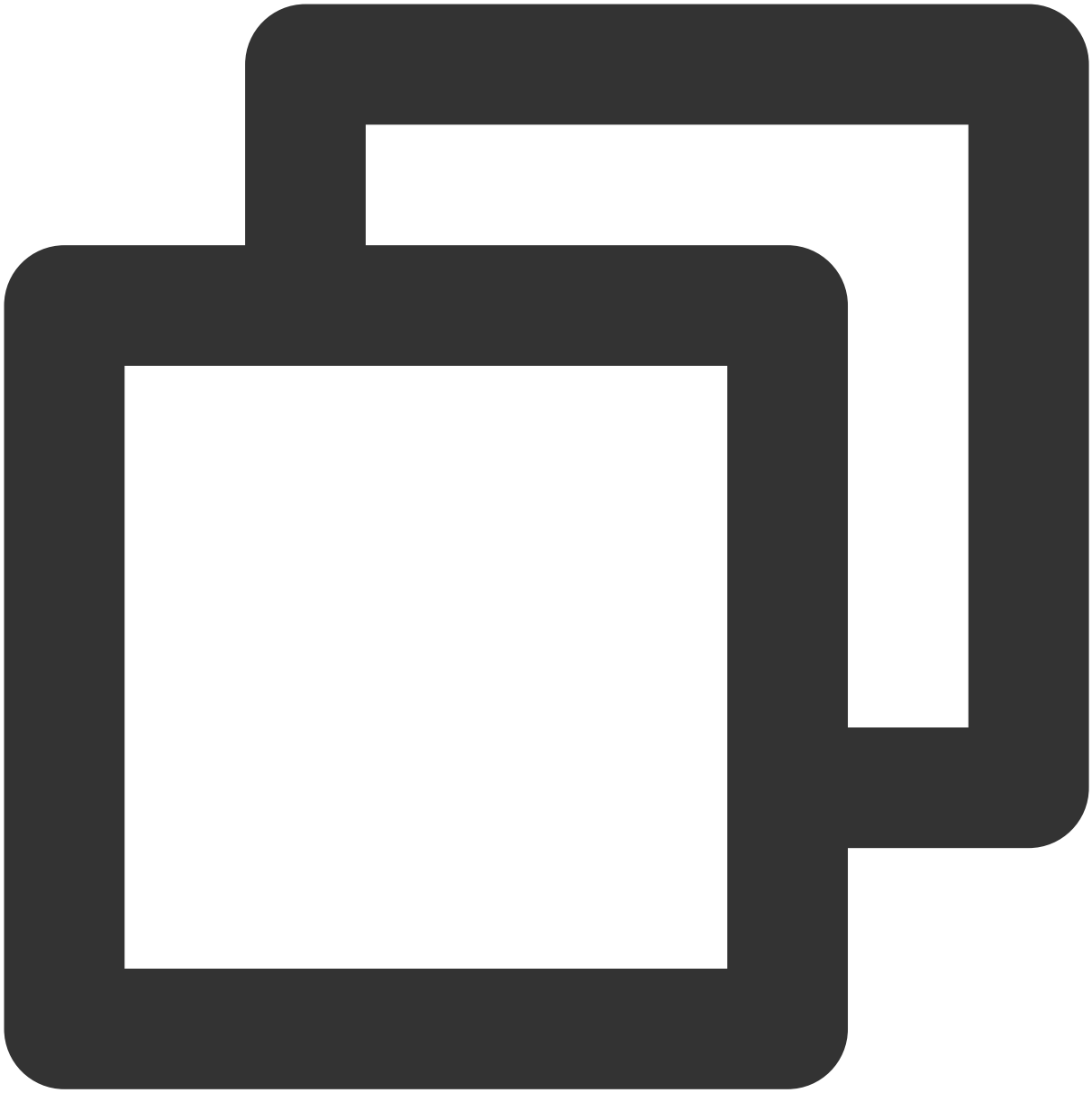
Single Image Moderation

Feature description

The existing data scan feature of image moderation leverages CI's persistent processing API to scan existing data stored in COS for porn, illegal, and advertising images.

Method prototype

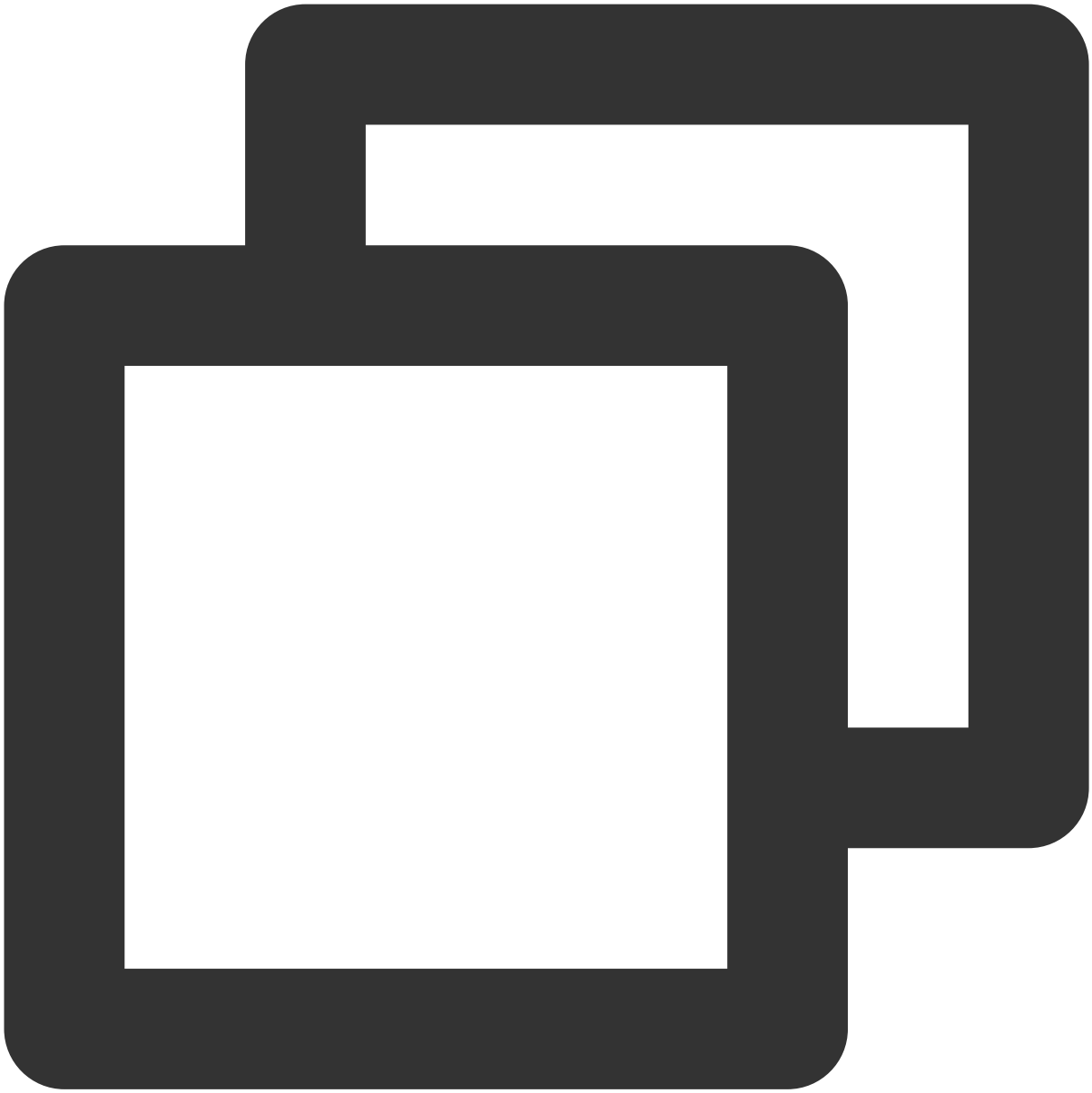
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```
CosResult GetImageAuditing(const GetImageAuditingReq& req, GetImageAuditingResp* re
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";
std::string object_name = "test.jpg";

GetImageAuditingReq req(bucket_name);
GetImageAuditingResp resp;

// Add request parameters as detailed in the API documentation
req.SetObjectKey(object_name);
req.SetBizType("b81d45f94b91a683255e9a9506f45a11");
```

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```
// req.SetDetectType("Porn,Ads");

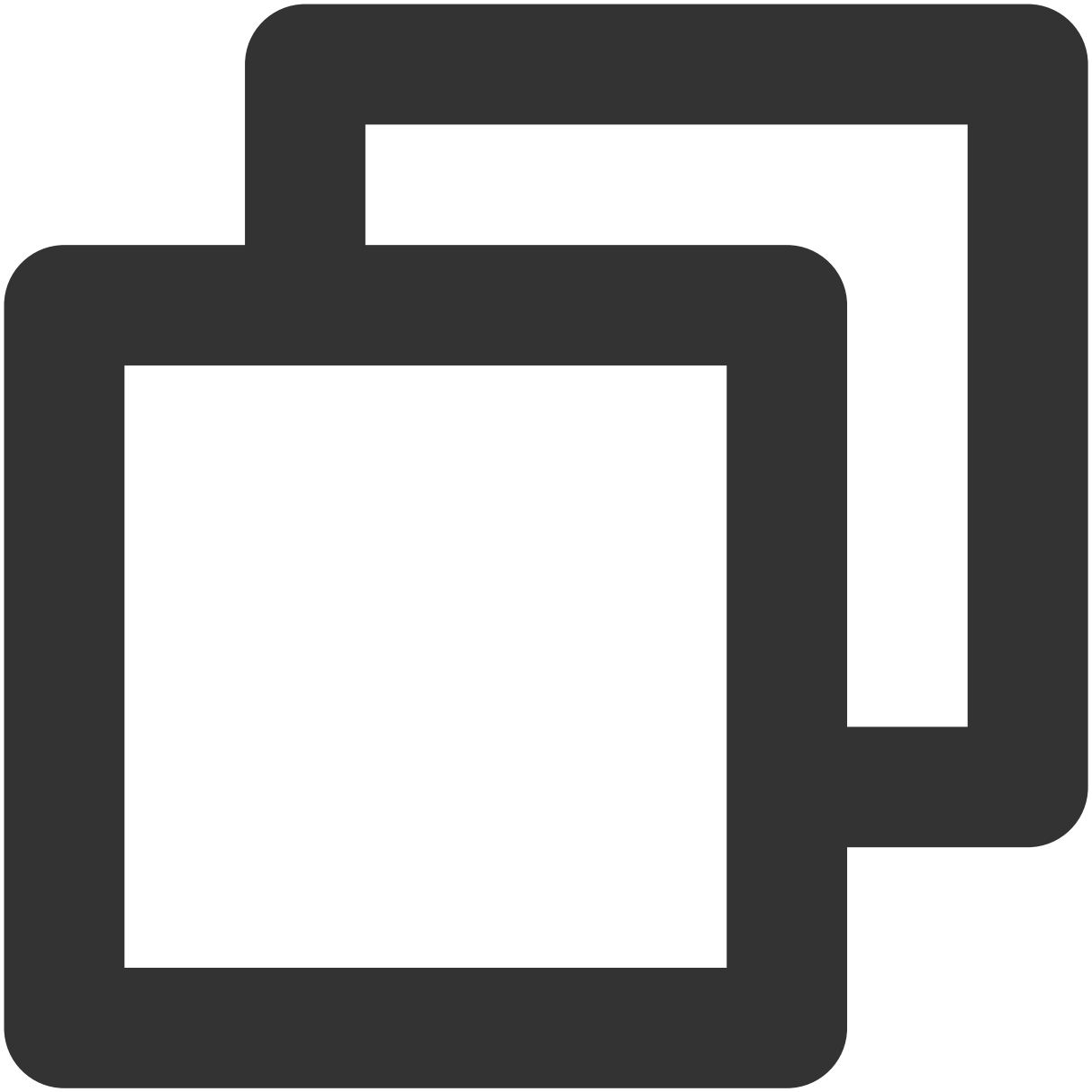
// Call the API to get the job response object
CosResult result = cos.GetImageAuditing(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is created successfully, you can call the member funct
} else {
    // If the moderation job failed to be created, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`GetImageAuditing` operation request	GetImageAuditingReq	Yes
resp	`GetImageAuditing` operation response	GetImageAuditingResp	Yes

`GetImageAuditingReq` provides the following member functions:

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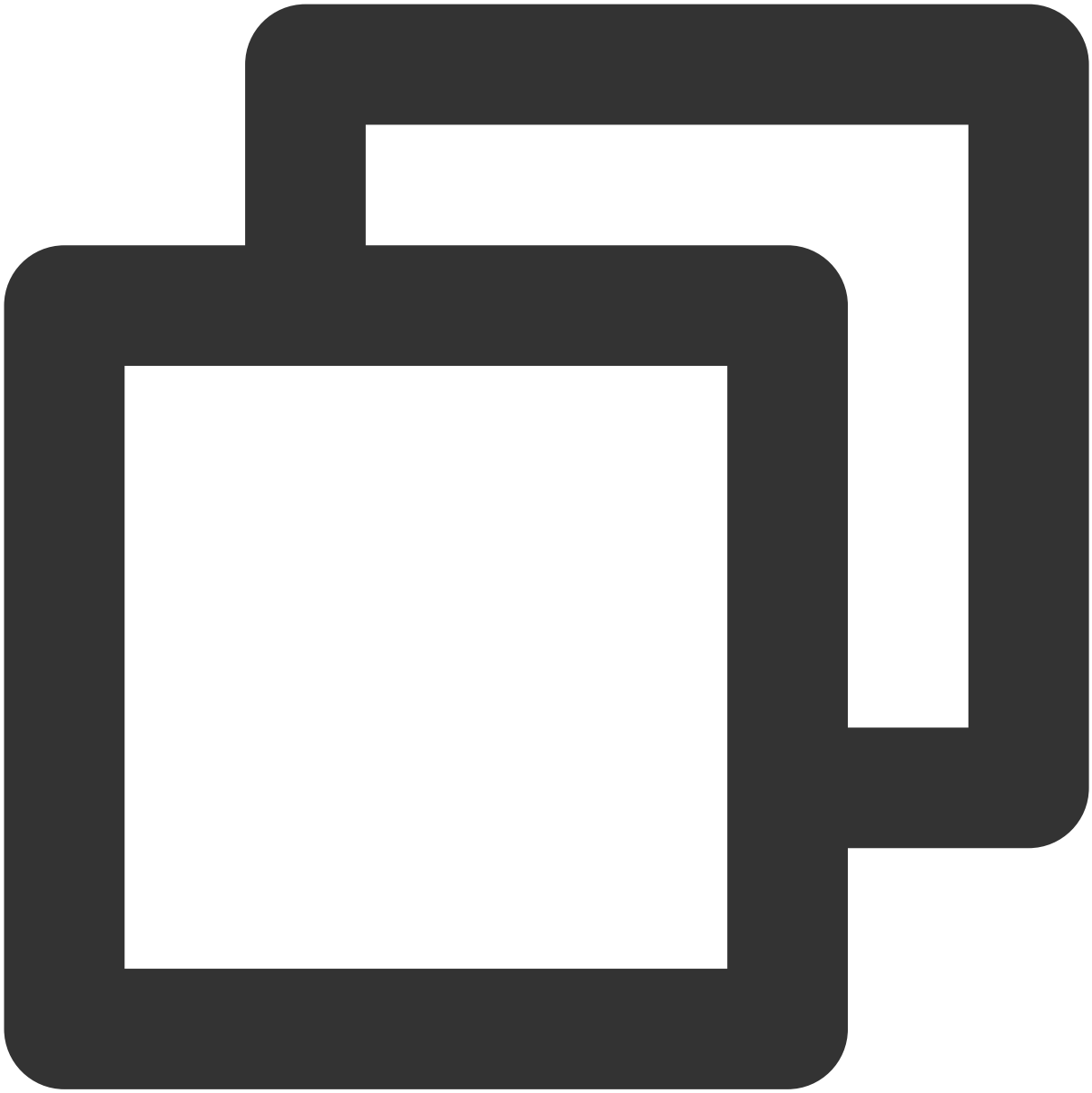
```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Name of the image file to be moderated in the COS bucket
void SetObjectKey(const std::string& object_name);
// Unique identifier of the moderation policy. You can configure the scenes you wan
// You can get `BizType` in the console. If `BizType` is specified, the moderation
void SetBizType(const std::string& biz_type);
// The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising).
void SetDetectType(const std::string& detect_type);
// URL of the image to be moderated, which can be a URL of any image accessible ove
// If `detect-url` is set, moderation will be conducted by `detect-url` by default,
```

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```
// If `detect-url` is not set, moderation will be conducted by `ObjectKey` by defau
void SetDetectUrl(const std::string& detect_url);
// For GIF image moderation, you can use this parameter to configure the frame capt
void SetInterval(int interval);
// Maximum number of frames to be captured for animated image moderation. Default v
void SetMaxFrames(int max_frames);
// Whether to compress the image that exceeds the size limit before moderation. Val
void SetLargeImageDetect(int large_image_detect);
// Image ID. This field will return the original content, which can contain up to 5
void SetDataId(const std::string& data_id);
```

`GetImageAuditingResp` provides the following member functions:

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```
// Get the job details returned by the API request
ImageAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `ImageAuditingJobsDetail` structure. For specific response parameters, see Single Image Moderation.

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Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

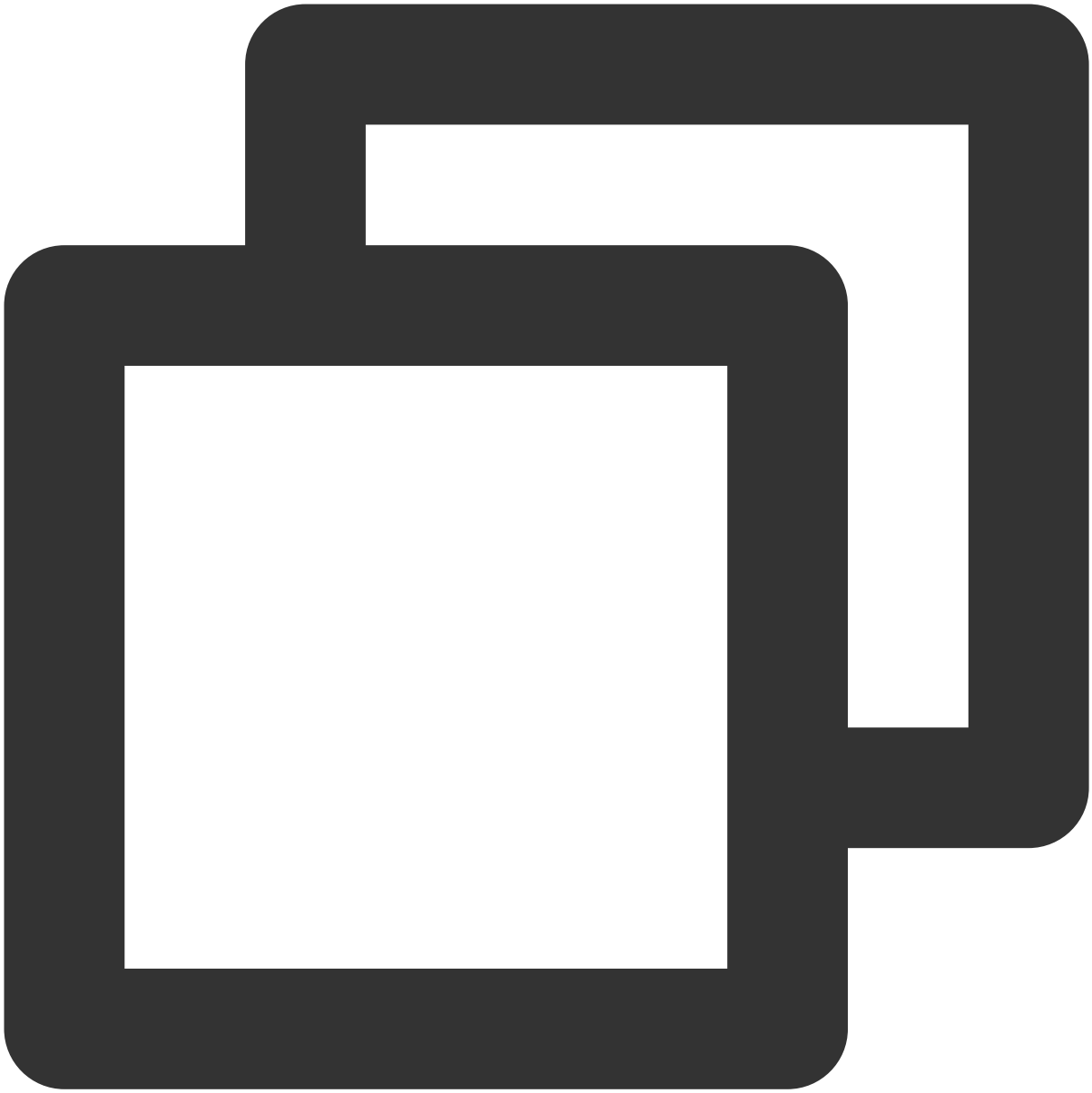
Batch Image Moderation

Feature description

The batch image moderation API adopts a sync POST request method. You can use this API to perform content moderation on multiple image files.

Method prototype

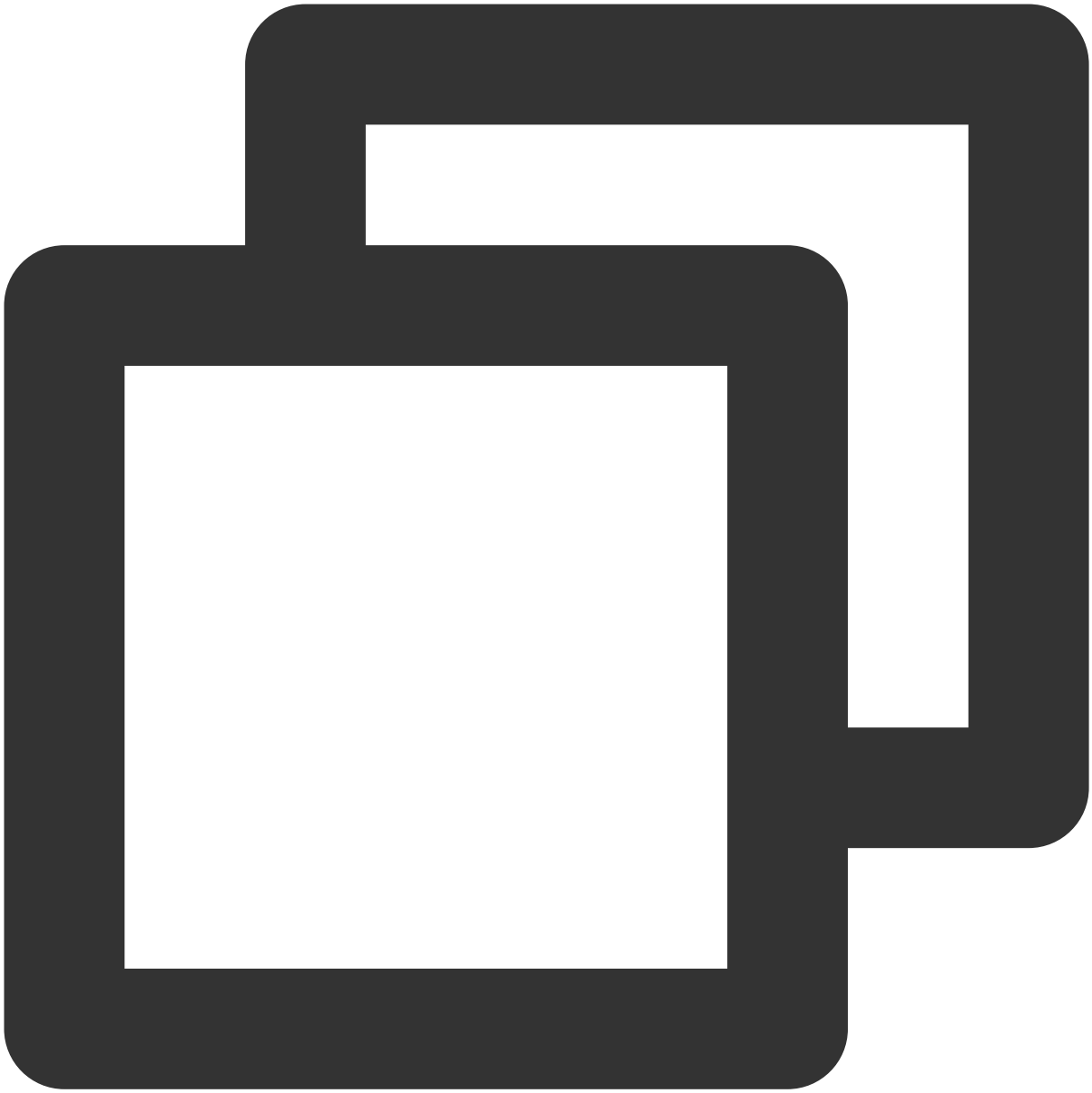
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```
CosResult CosAPI::BatchImageAuditing(const BatchImageAuditingReq& req, BatchImageAu
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";
std::string object_name_a = "test1.jpg";
std::string object_name_b = "test2.jpg";

BatchImageAuditingReq req(bucket_name);
BatchImageAuditingResp resp;

// input 1
AuditingInput input_a = AuditingInput();
```

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```
input_a.SetObject(object_name_a);
req.AddInput(input_a);

// input2
AuditingInput input_b = AuditingInput();
input_a.SetObject(object_name_b);
req.AddInput(input_b);

// Moderation configuration
req.SetBizType("b81d45f94b91a683255e9a9506f45a11");
// req.SetDetectType("Porn,Ads");

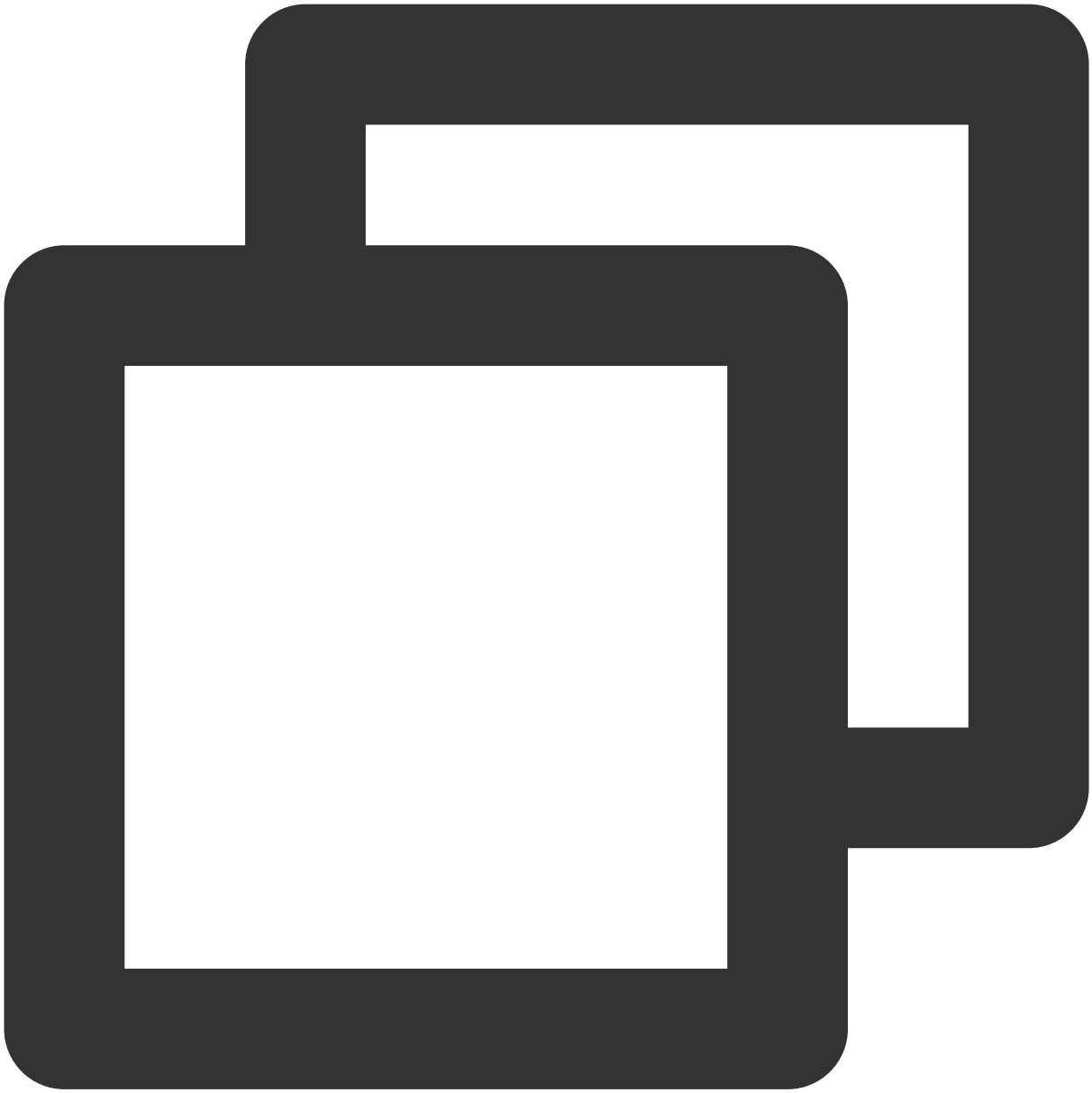
// Call the API to get the job response object
CosResult result = cos.BatchImageAuditing(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is created successfully, you can call the member funct
} else {
    // If the moderation job failed to be created, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`BatchImageAuditing` operation request	BatchImageAuditingReq	Yes
resp	`BatchImageAuditing` operation response	BatchImageAuditingResp	Yes
input	Input parameter of the `BatchImageAuditing` operation request	AuditingInput	Yes

`BatchImageAuditingReq` provides the following member functions:

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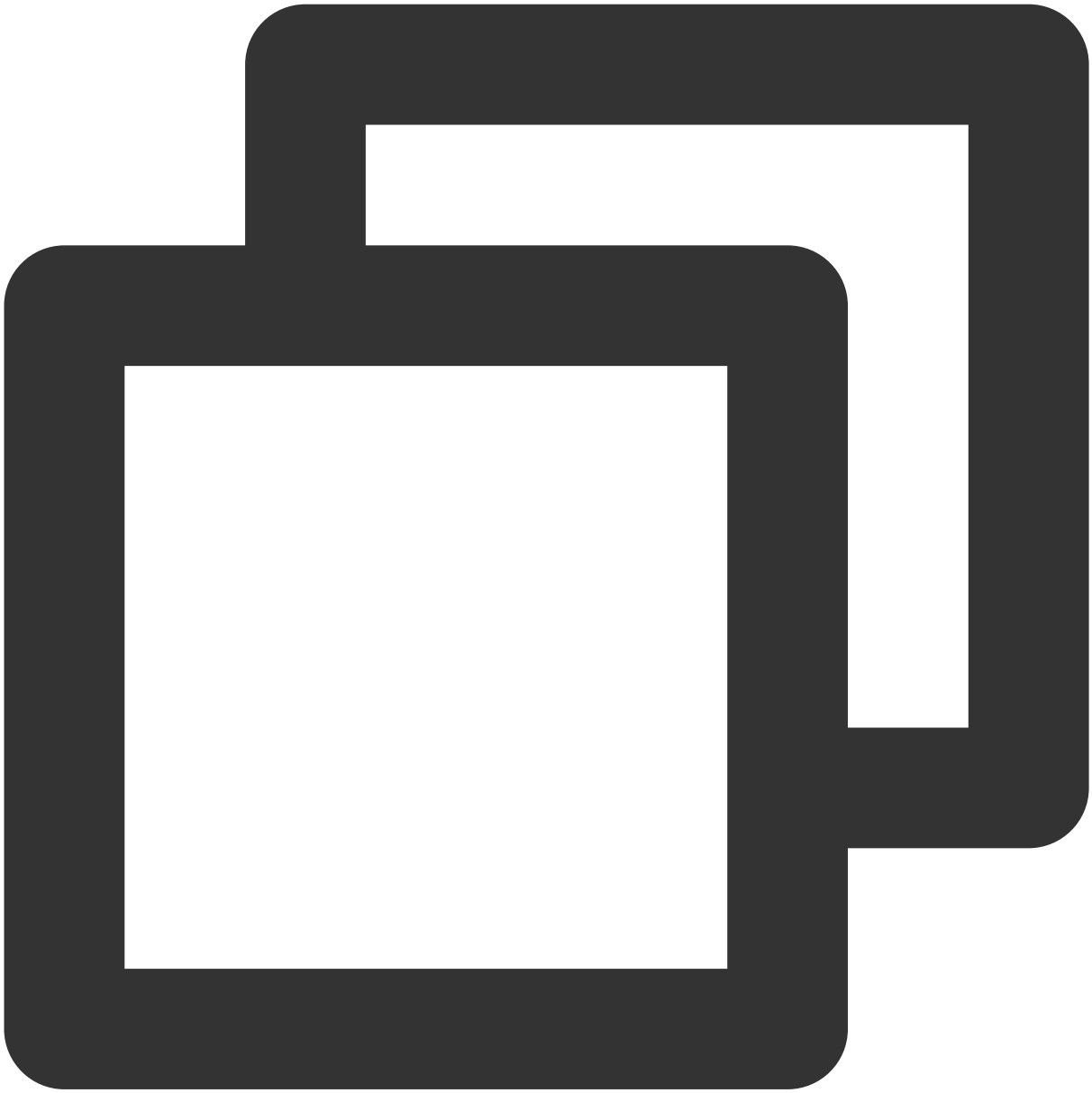


```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the moderation configuration
void SetConf(const Conf& conf);
// Unique identifier of the moderation policy. You can configure the scenes you wan
// You can get `BizType` in the console. If `BizType` is specified, the moderation
void SetBizType(const std::string& biz_type);
// The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising).
void SetDetectType(const std::string& detect_type);
// Add the input for single image moderation
void AddInput(const AuditingInput& input);
```

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```
// Set the input array for batch moderation
void SetInputs(const std::vector<AuditingInput>& inputs);
```

`AuditingInput` provides the following member functions:

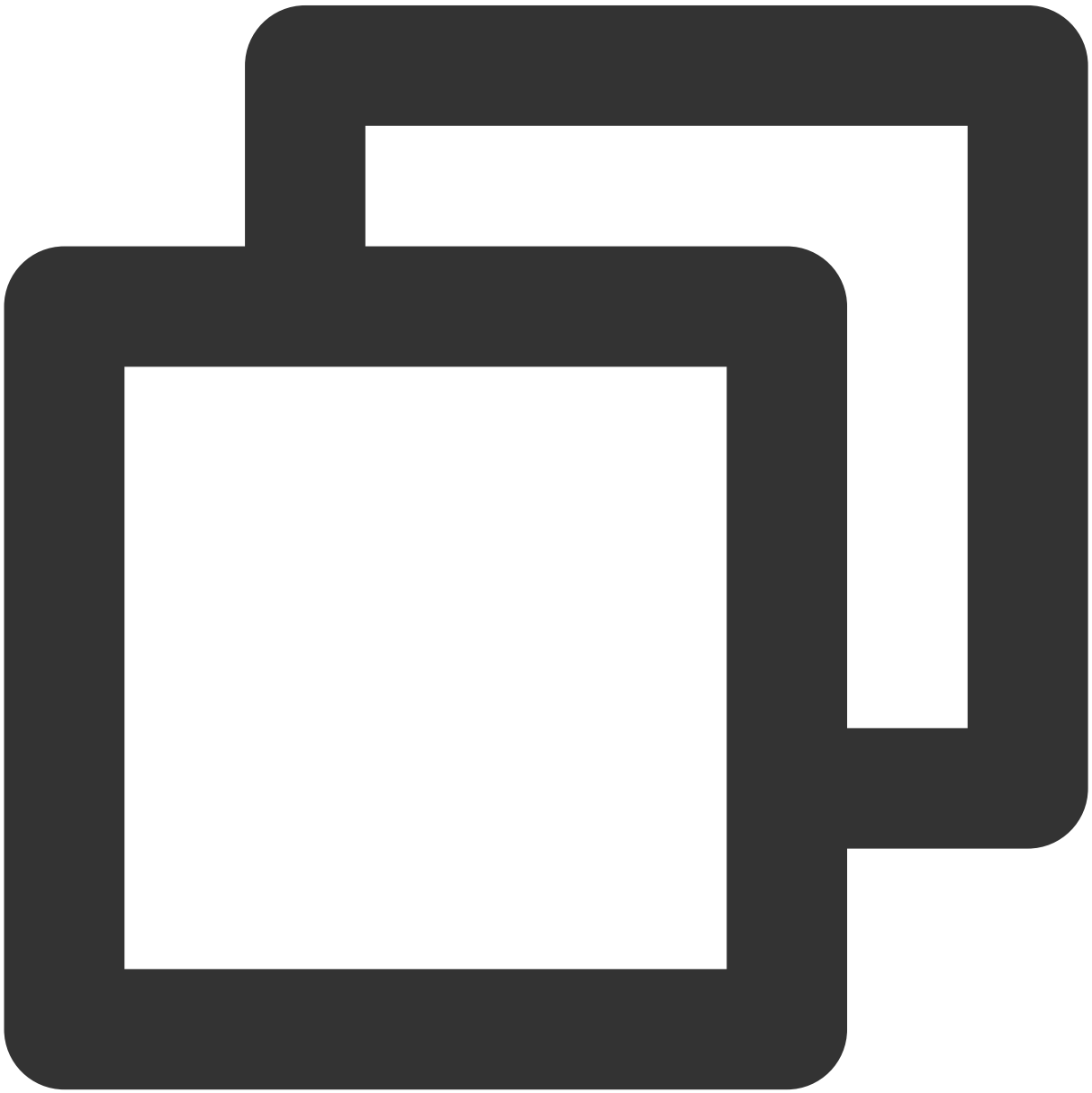


```
// Name of the image file to be moderated in the COS bucket
void SetObject(const std::string& object);
// Full URL of the image file, such as `http://a-1250000.cos.ap-shanghai.myqcloud.c
void SetUrl(const std::string& url);
// Frame capturing frequency, which takes effect for GIF images only. The default v
void SetInterval(const int interval);
```

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```
// The maximum number of frames to be captured, which takes effect for GIF images o
void SetMaxFrames(const int max_frames);
// Image ID. This field will return the original content in the result, which can c
void SetDataId(const std::string& data_id);
// Whether to compress the image that exceeds the size limit before moderation. Val
void SetLargeImageDetect(const int large_image_detect);
// Business field.
void SetUserInfo(const UserInfo& user_info);
```

`BatchImageAuditingResp` provides the following member functions:



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```
// Get the job details returned by the API request
std::vector<ImageAuditingJobsDetail>  GetJobsDetails();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `ImageAuditingJobsDetail` structure array. For specific response parameters, see Batch Image Moderation.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

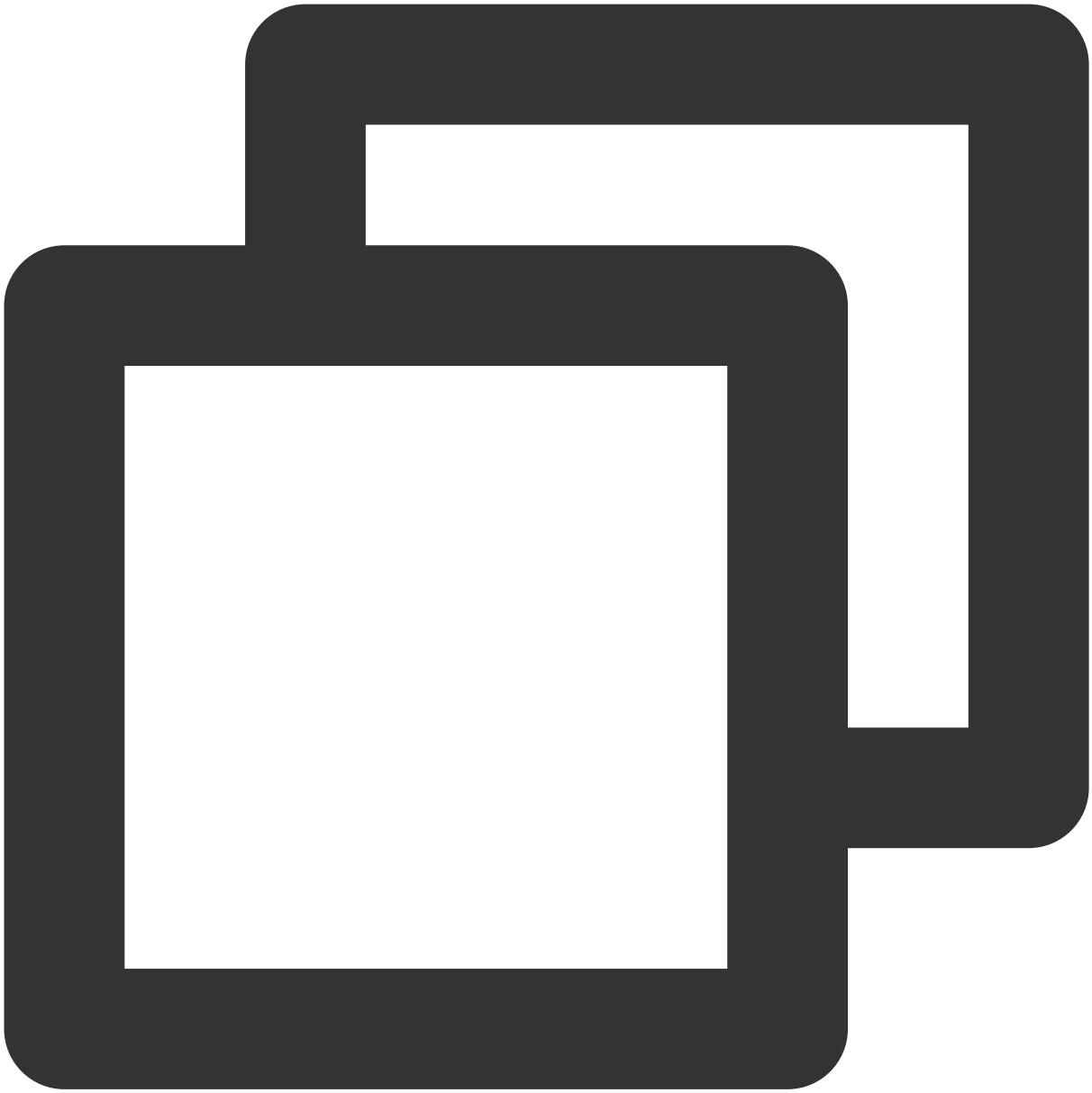
Querying Image Moderation Job Result

Feature description

This API is used to submit an image moderation job.

Method prototype

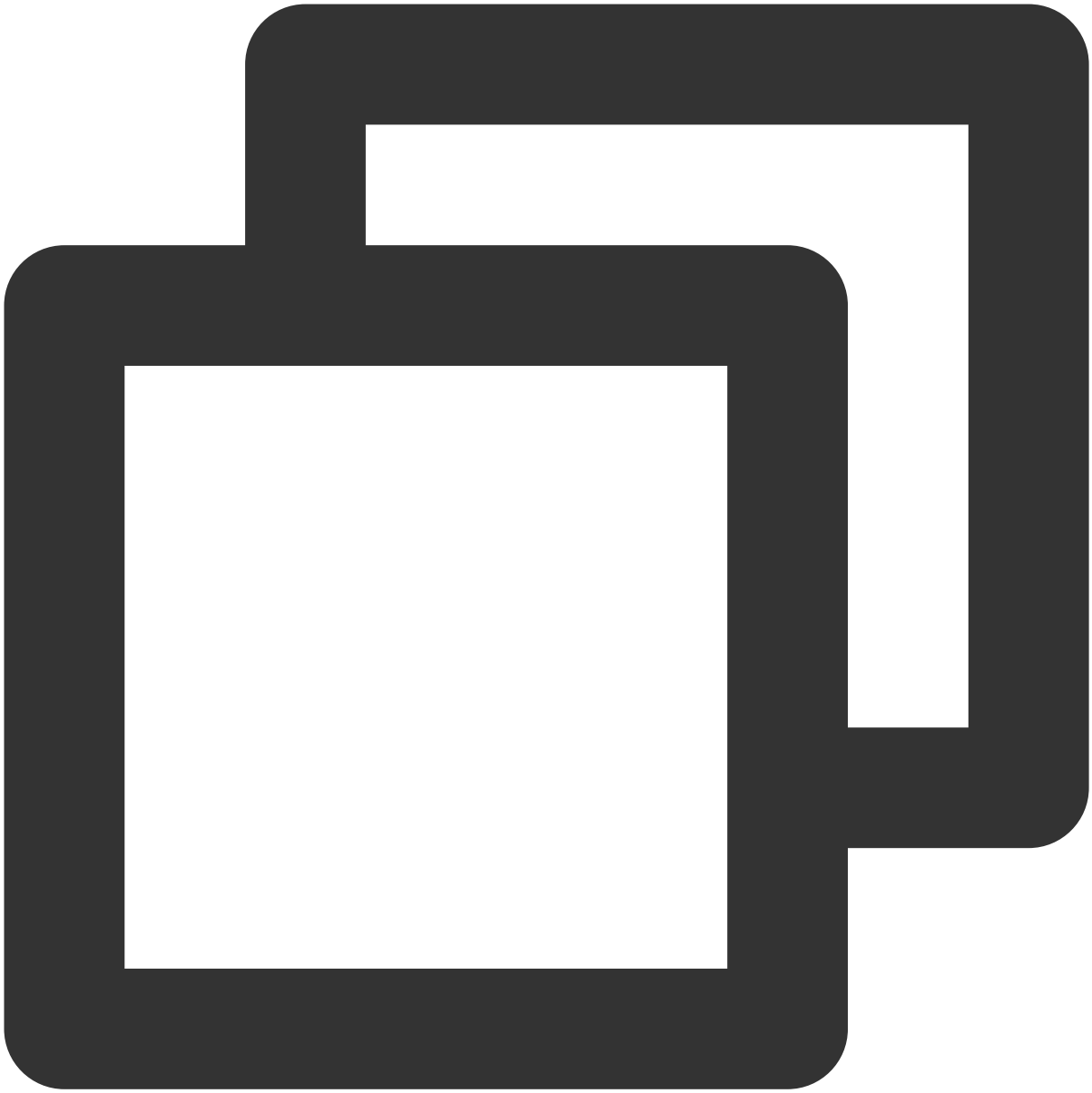
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```
CosResult DescribeImageAuditingJob(const DescribeImageAuditingJobReq &req, Describe
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

DescribeImageAuditingJobReq req(bucket_name);
DescribeImageAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetJobId("vab1ca9fc8a3ed11ea834c525400863904");

// Call the API to get the job response object
```

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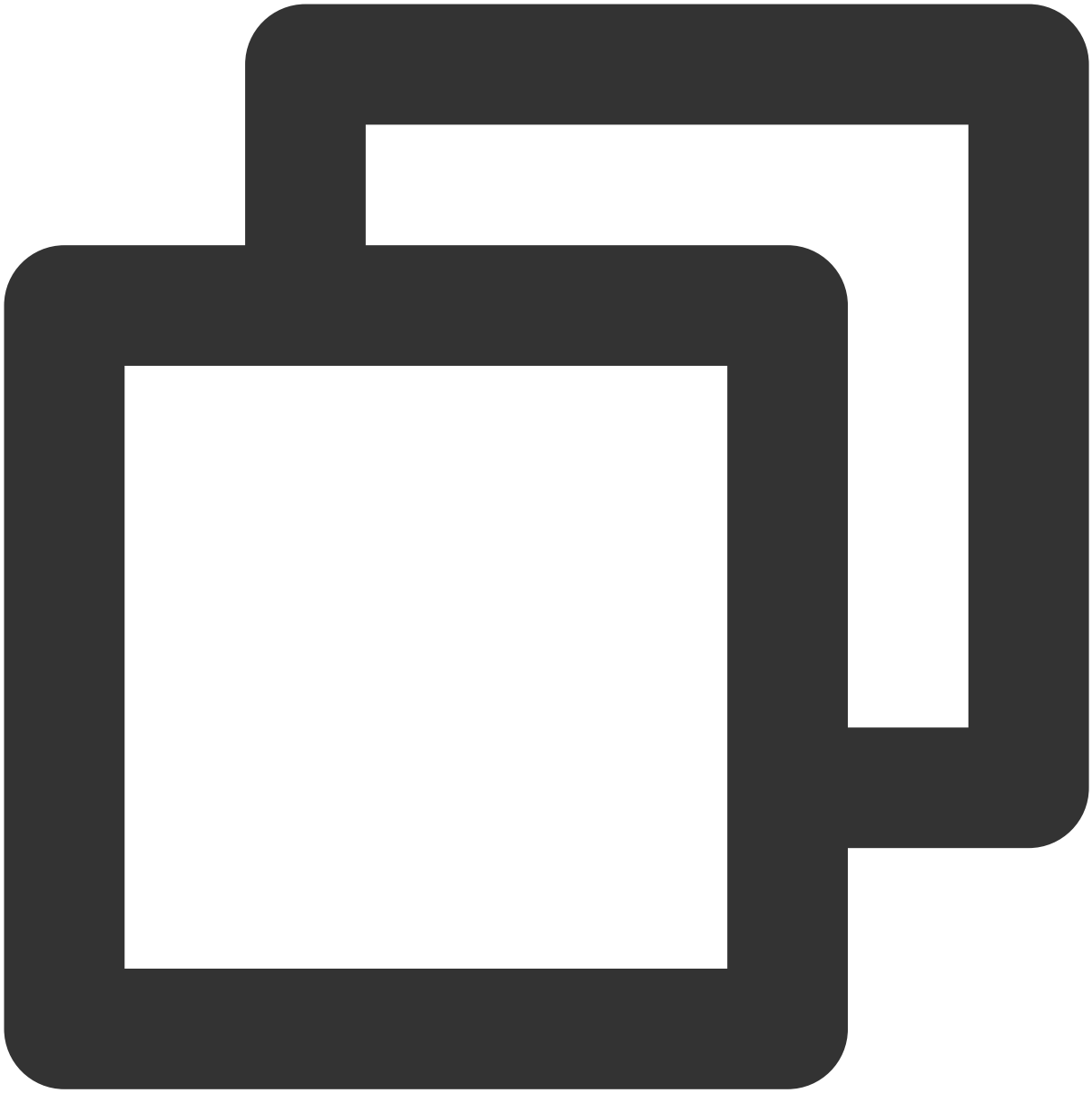
```
CosResult result = cos.DescribeImageAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is created successfully, you can call the member funct
} else {
    // If the moderation job failed to be created, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`DescribeImageAuditingJob` operation request	DescribeImageAuditingJobReq	Yes
resp	`DescribeImageAuditingJob` operation response	DescribeImageAuditingJobResp	Yes

`DescribeVideoAuditingJobReq` provides the following member functions:

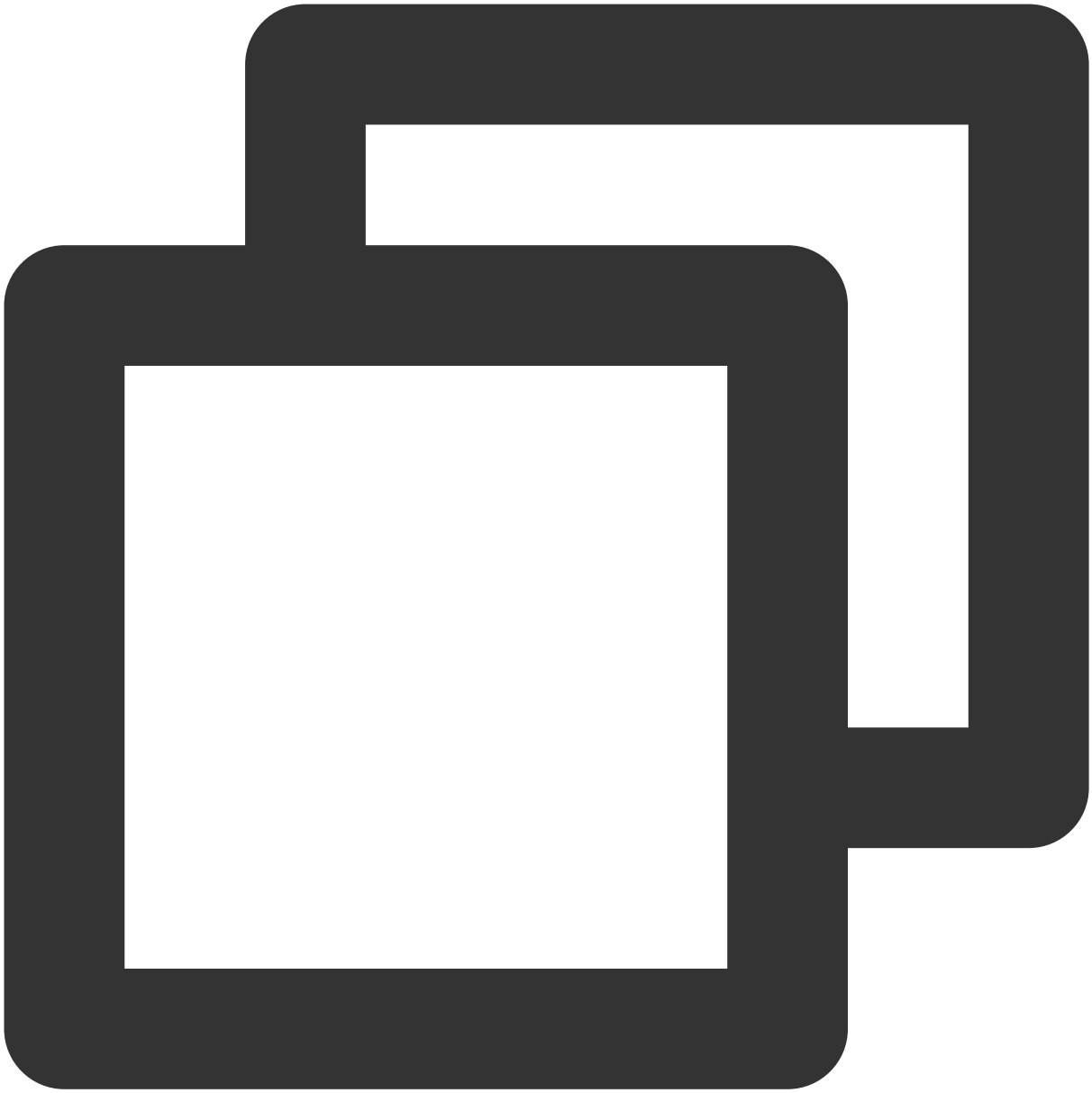
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```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the ID of the moderation job to be queried
void SetJobId(const std::string& job_id);
```

`DescribeVideoAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
ImageAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `ImageAuditingJobsDetail` structure. For specific response parameters, see Querying Image Moderation Job

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Result.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

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Video Moderation

Last updated：2024-02-29 16:13:43

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

API	Description
Submitting video moderation job	Submits video moderation job.
Querying video moderation job result	Queries the result of specified video moderation job.

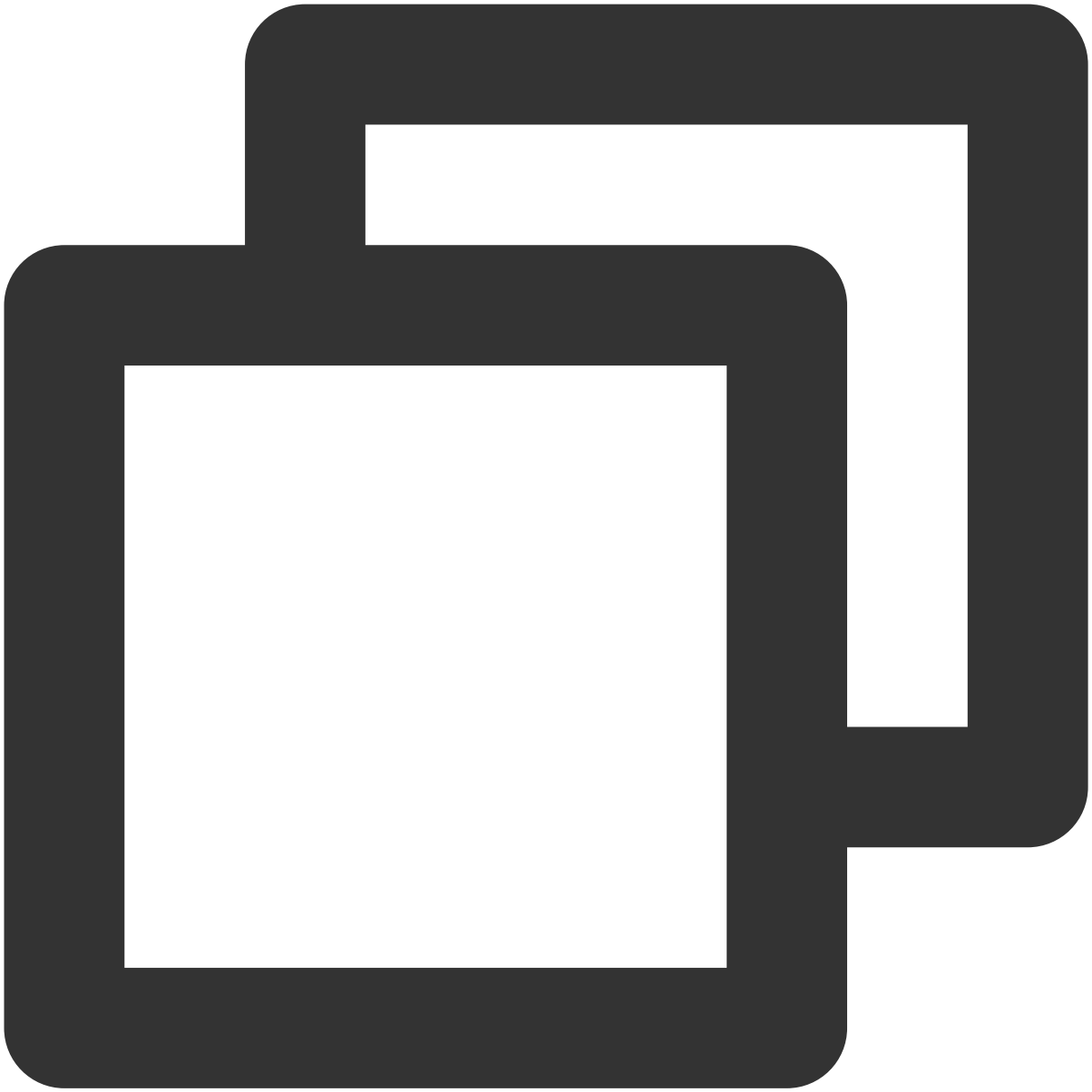
Submitting Video Moderation Job

Feature description

This API is used to submit a video moderation job.

Method prototype

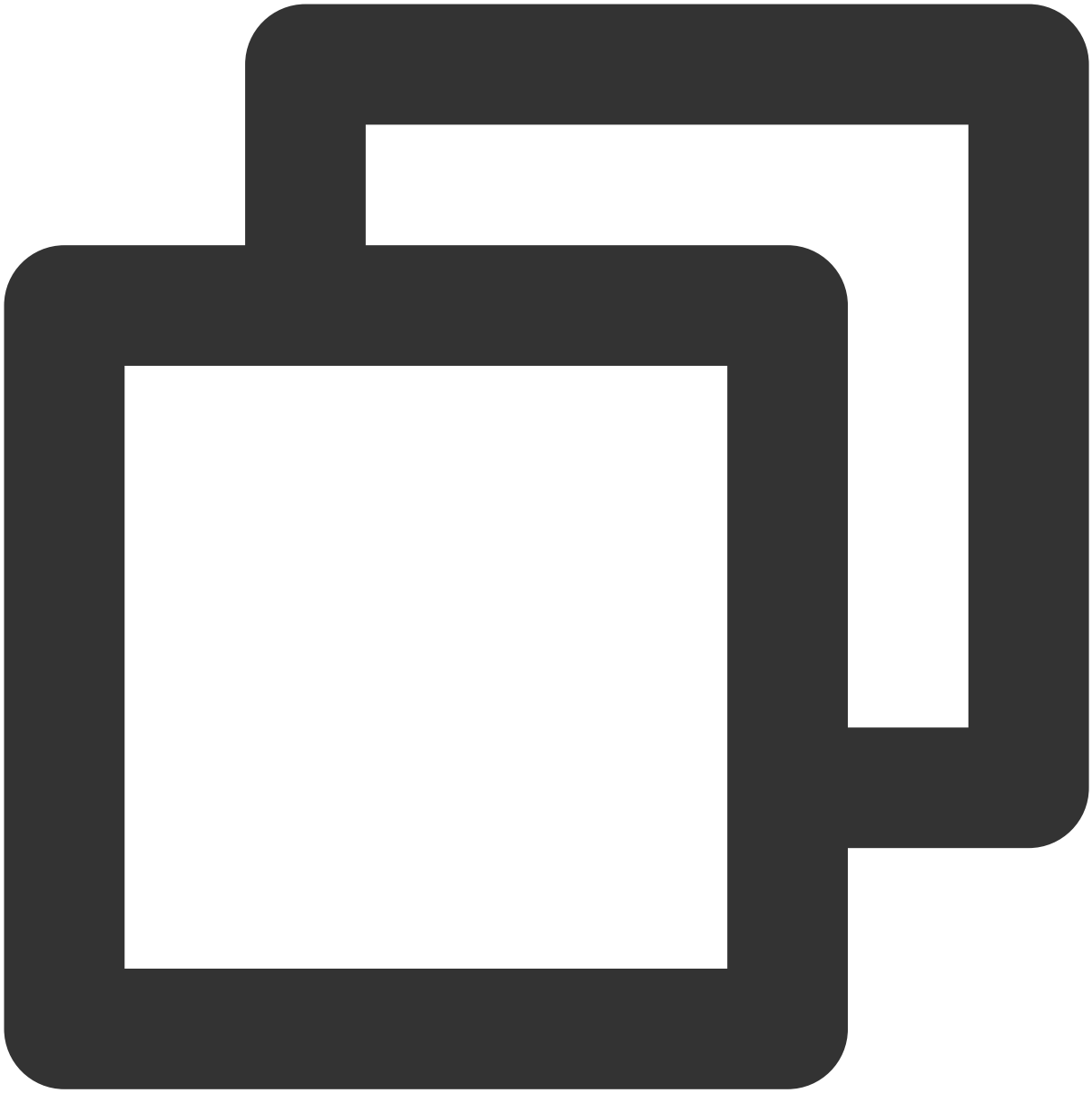
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```
CosResult CreateVideoAuditingJob(const CreateVideoAuditingJobReq& req, CreateVideoA
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";
std::string object_name = "test.mp4";

CreateVideoAuditingJobReq req(bucket_name);
CreateVideoAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetObject(object_name);
req.SetBizType("b81d45f94b91a683255e9a9506f45a11");
```

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```
// req.SetDetectType("Porn,Ads");
SnapShotConf snap_shot = SnapShotConf();
snap_shot.SetCount(100);
snap_shot.SetMode("Interval");
snap_shot.SetTimeInterval(10);
req.SetSnapShot(snap_shot);

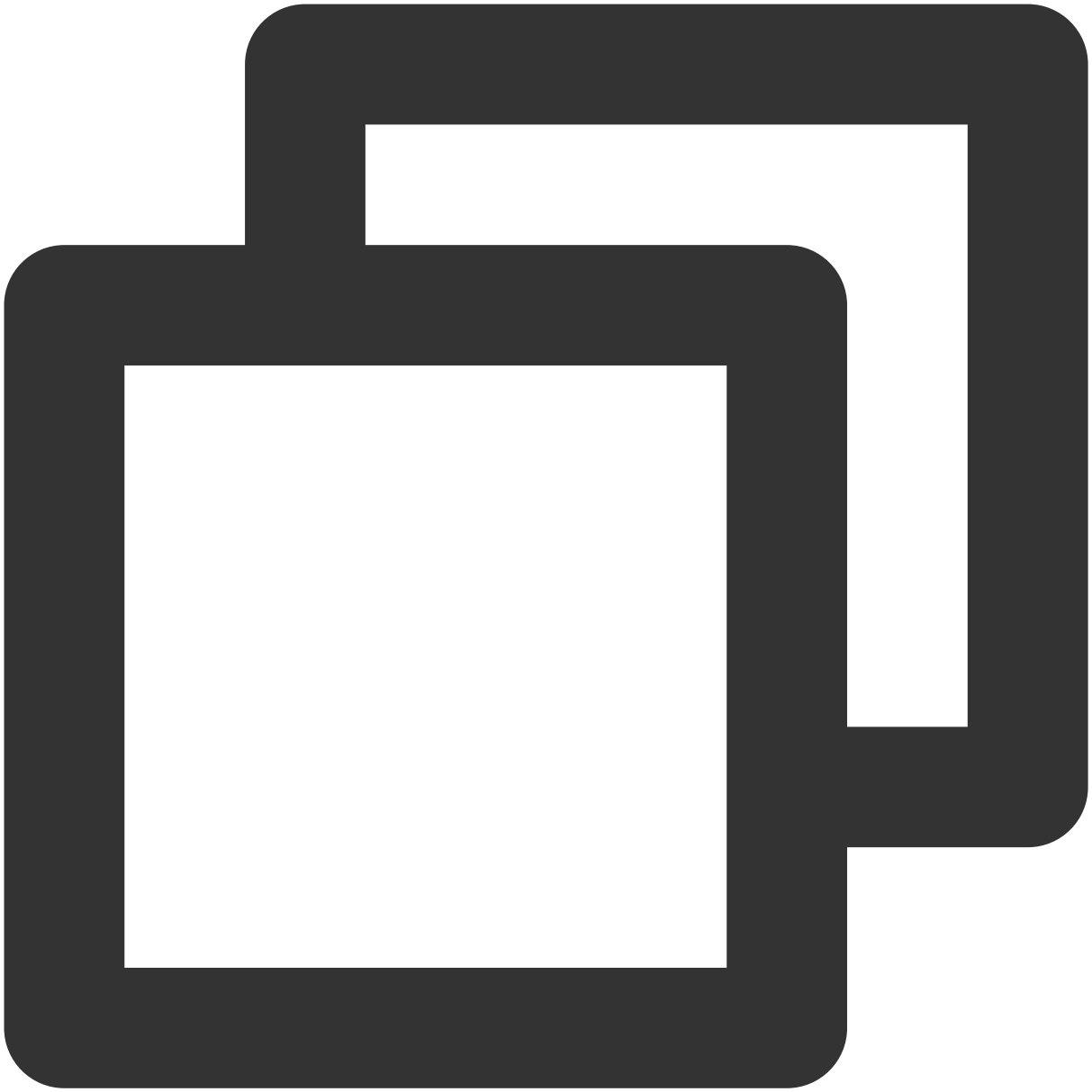
// Call the API to get the job response object
CosResult result = cos.CreateVideoAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is created successfully, you can call the member funct
} else {
    // If the moderation job failed to be created, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`CreateVideoAuditing` operation request	CreateVideoAuditingReq	Yes
resp	`CreateVideoAuditing` operation response	CreateVideoAuditingResp	Yes

`CreateVideoAuditingReq` provides the following member functions:

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```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the input video to be moderated
void SetInput(const AuditingInput& input);
// Set moderation configuration rules
void SetConf(const Conf& conf);

// conf
// Unique identifier of the moderation policy. You can configure the scenes you wan
// You can get `BizType` in the console. If `BizType` is specified, the moderation
void SetBizType(const std::string& biz_type);
```

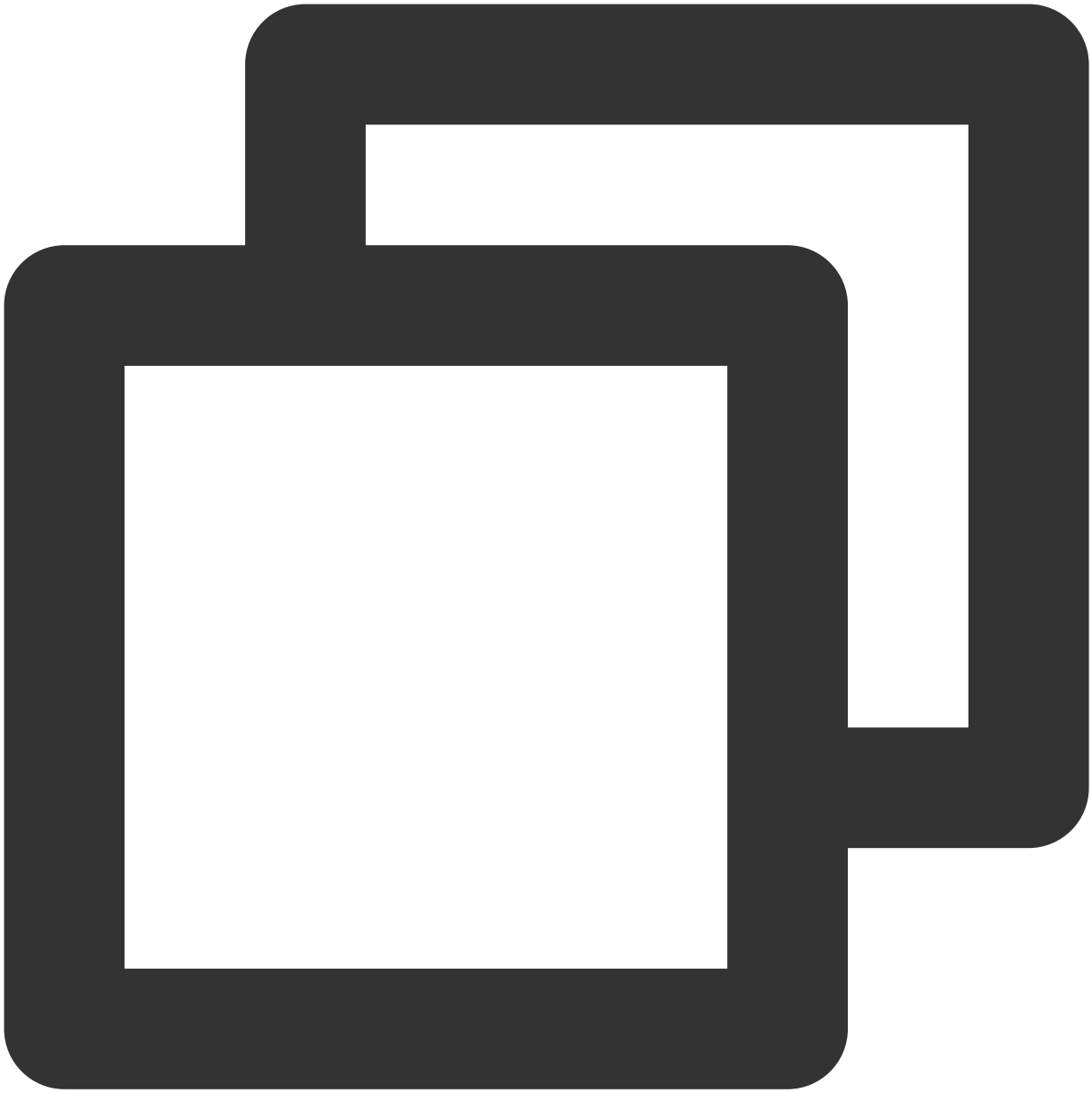
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```
// The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising).
void SetDetectType(const std::string& detect_type);
// Video image moderation is implemented by taking a certain number of screenshots
void SetSnapShot(const SnapShotConf& snap_shot);
// Callback address, which must start with `http://` or `https://`.
void SetCallBack(const std::string& callback);
// Structure of the callback content. Valid values: `Simple` (the callback content
void SetCallBackVersion(const std::string& callback_version);
// Specify whether to moderate video sound. Valid values: `0` (moderates the video
void SetDetectContent(const int detect_content);

// input
// Name of the video file stored in the COS bucket; for example, if the file is `vi
void SetObject(const std::string& object);
// Full URL of the video file, such as `http://examplebucket-1250000000.cos.ap-shan
void SetUrl(const std::string& url);
// This field will return the original content in the moderation result, which can
void SetDataId(const std::string& data_id);
// Business field.
void SetUserInfo(const UserInfo& user_info);
```

`CreateVideoAuditingResp` provides the following member functions:

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```
// Get the job details returned by the API request
VideoAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `VideoAuditingJobsDetail` structure. For specific response parameters, see Submitting Video Moderation

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Job.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

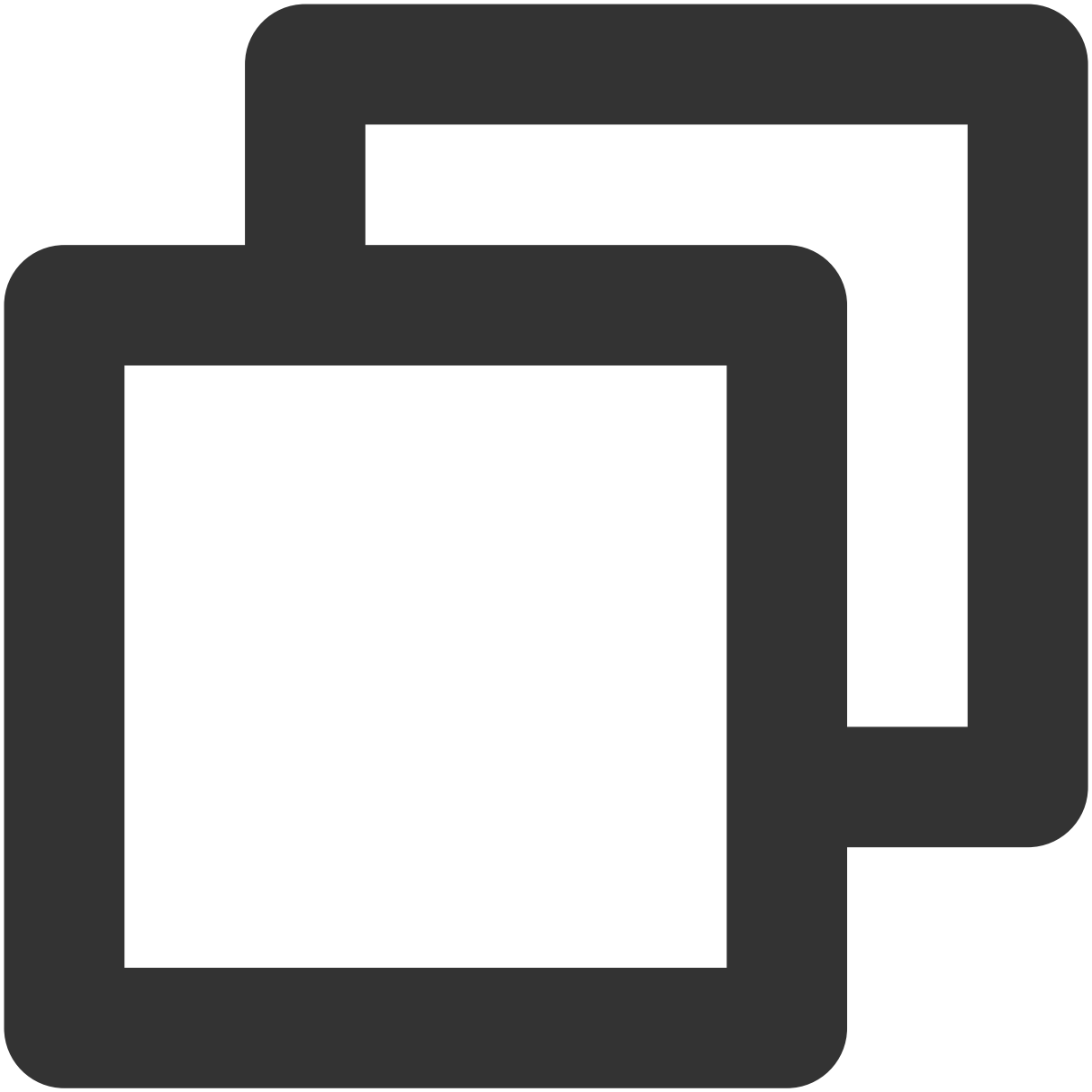
Querying Video Moderation Job Result

Feature description

This API is used to query the status and result of a video moderation job.

Method prototype

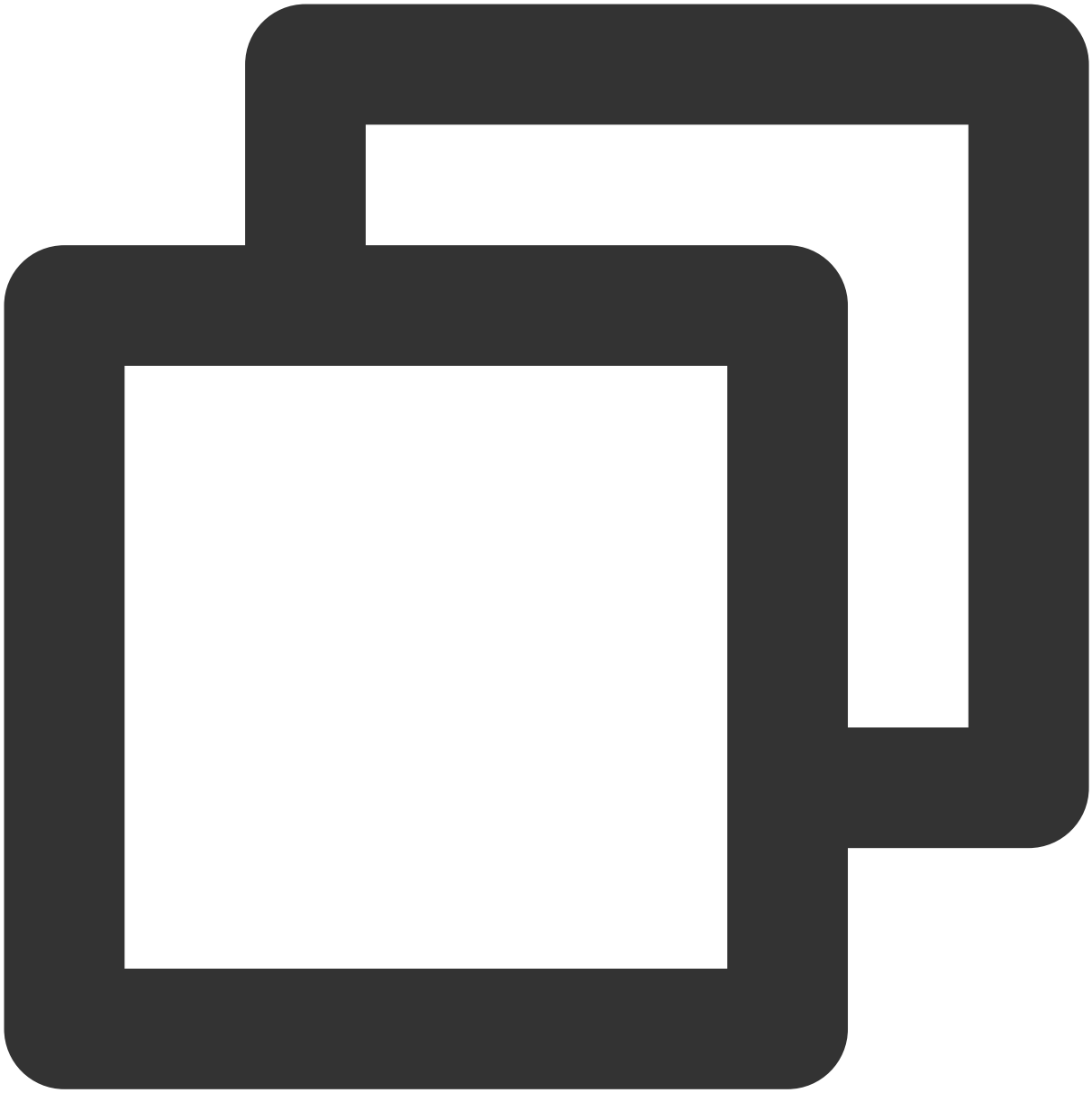
©2013-2022 Tencent Cloud. All rights reserved.



```
CosResult DescribeVideoAuditingJob(const DescribeVideoAuditingJobReq& req, Describe
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

DescribeVideoAuditingJobReq req(bucket_name);
DescribeVideoAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetJobId("vab1ca9fc8a3ed11ea834c525400863904");

// Call the API to get the job response object
```

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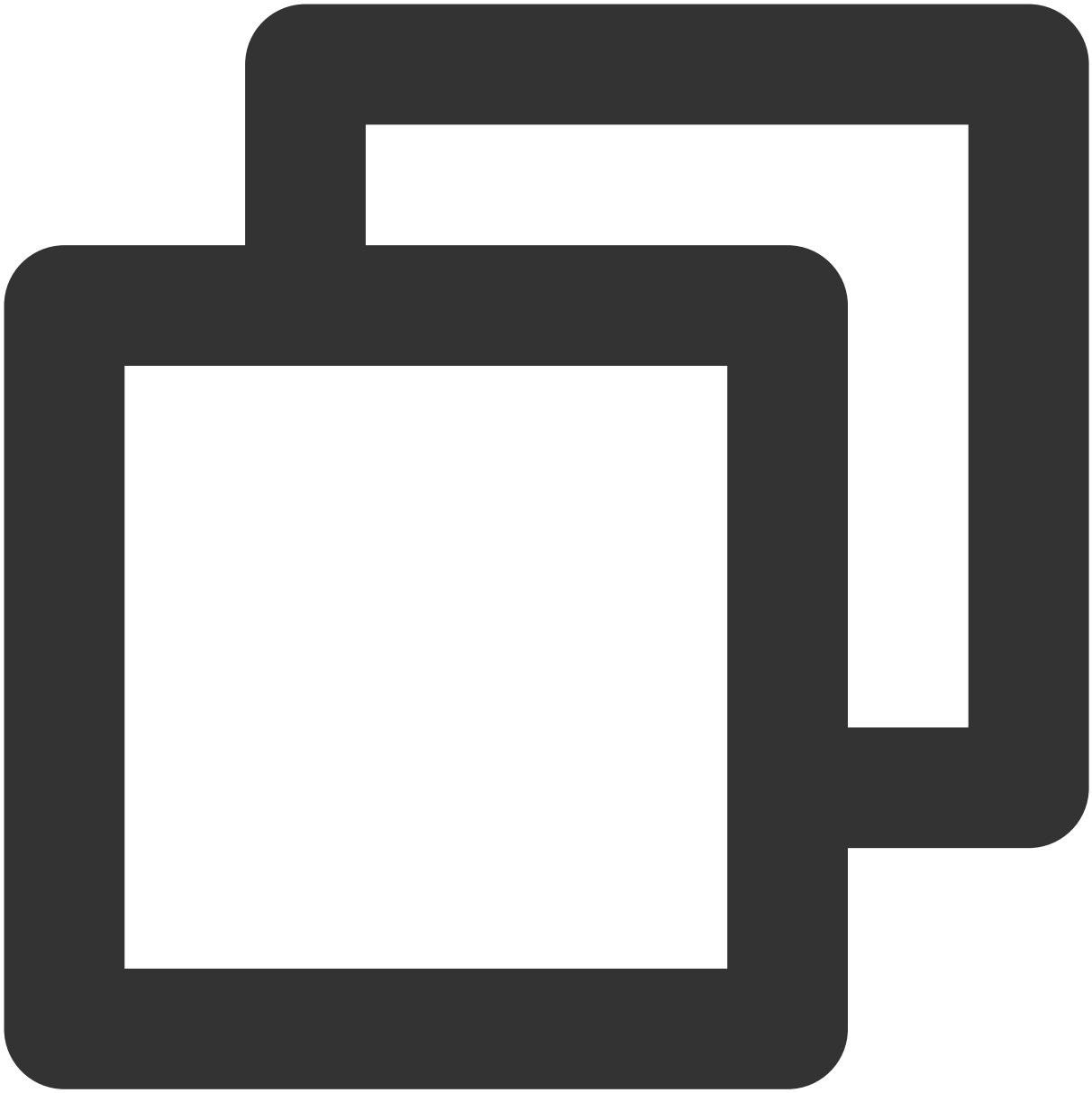
```
CosResult result = cos.DescribeVideoAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is queried successfully, you can call the member funct
} else {
    // If the moderation job failed to be queried, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`DescribeVideoAuditingJob` operation request	DescribeVideoAuditingJobReq	Yes
resp	`DescribeVideoAuditingJob` operation response	DescribeVideoAuditingJobResp	Yes

`DescribeVideoAuditingJobReq` provides the following member functions:

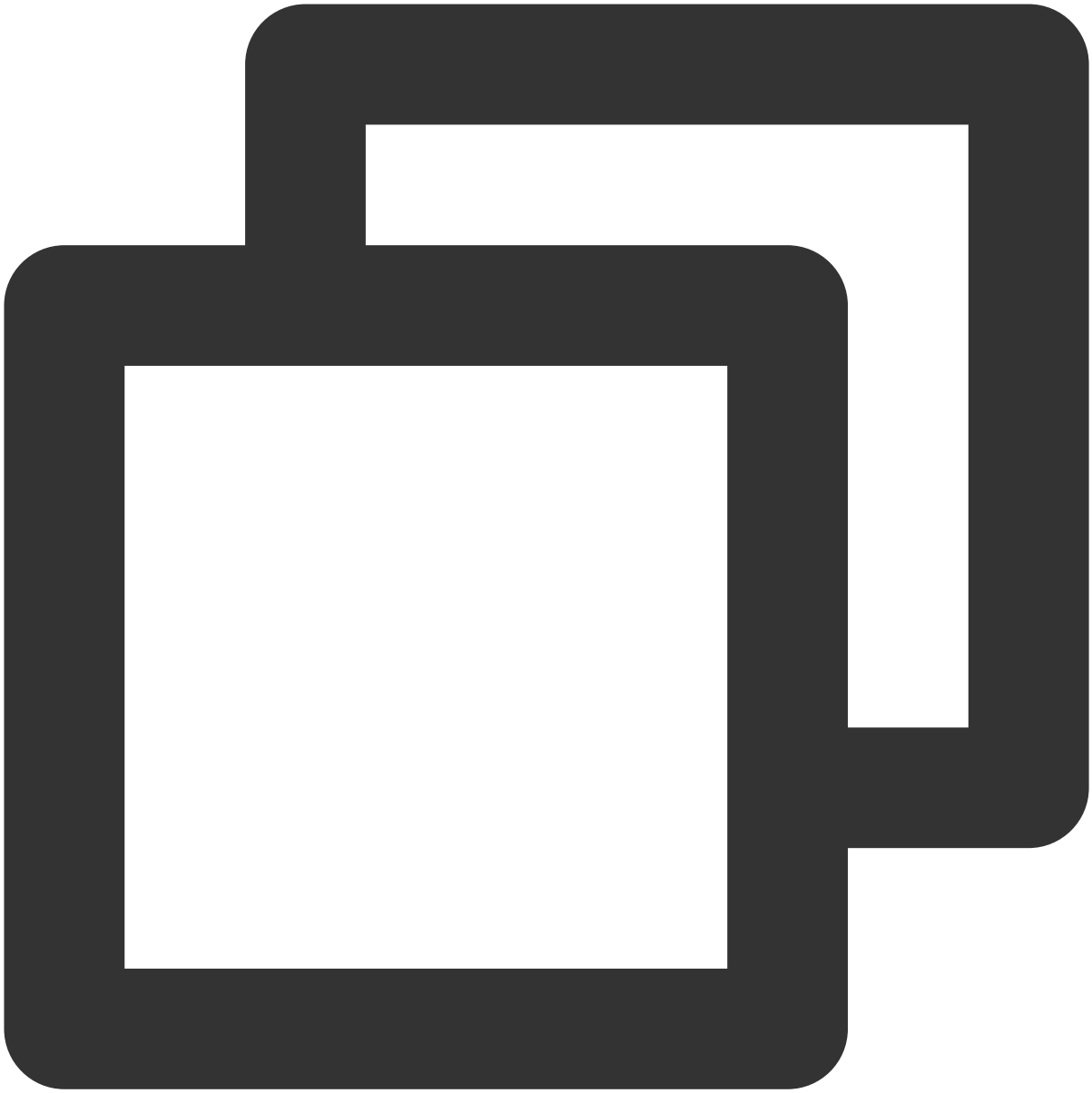
©2013-2022 Tencent Cloud. All rights reserved.



```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the ID of the moderation job to be queried
void SetJobId(const std::string& job_id);
```

`DescribeVideoAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
VideoAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `VideoAuditingJobsDetail` structure. For specific response parameters, see Submitting Video Moderation

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Job.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

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Audio Moderation

Last updated：2024-02-29 16:13:43

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for audio moderation.

API	Description
Submitting audio moderation job	Submits audio moderation job.
Querying audio moderation job result	Queries the result of specified audio moderation job.

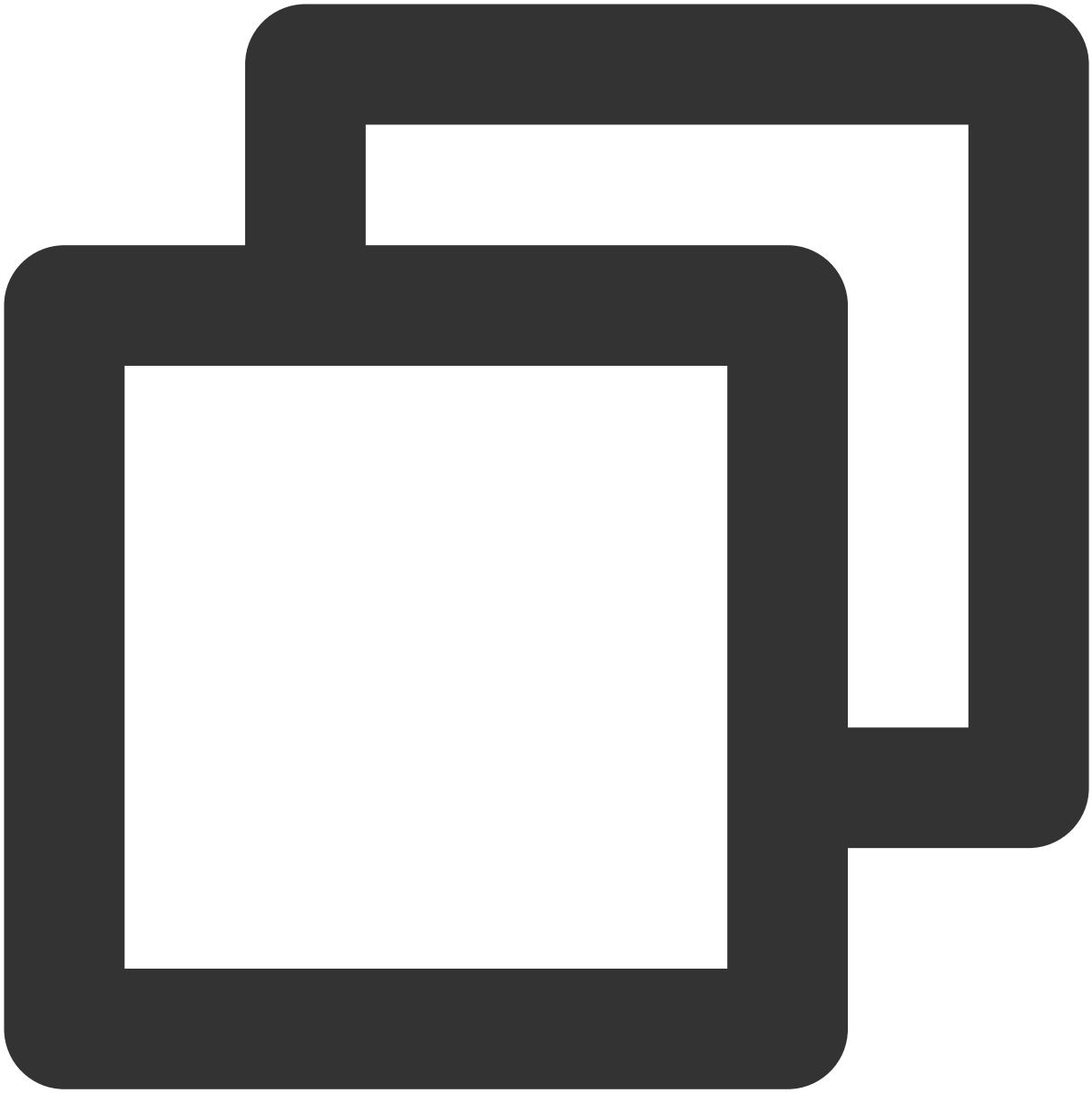
Submitting Audio Moderation Job

Feature description

This API is used to submit an audio moderation job.

Method prototype

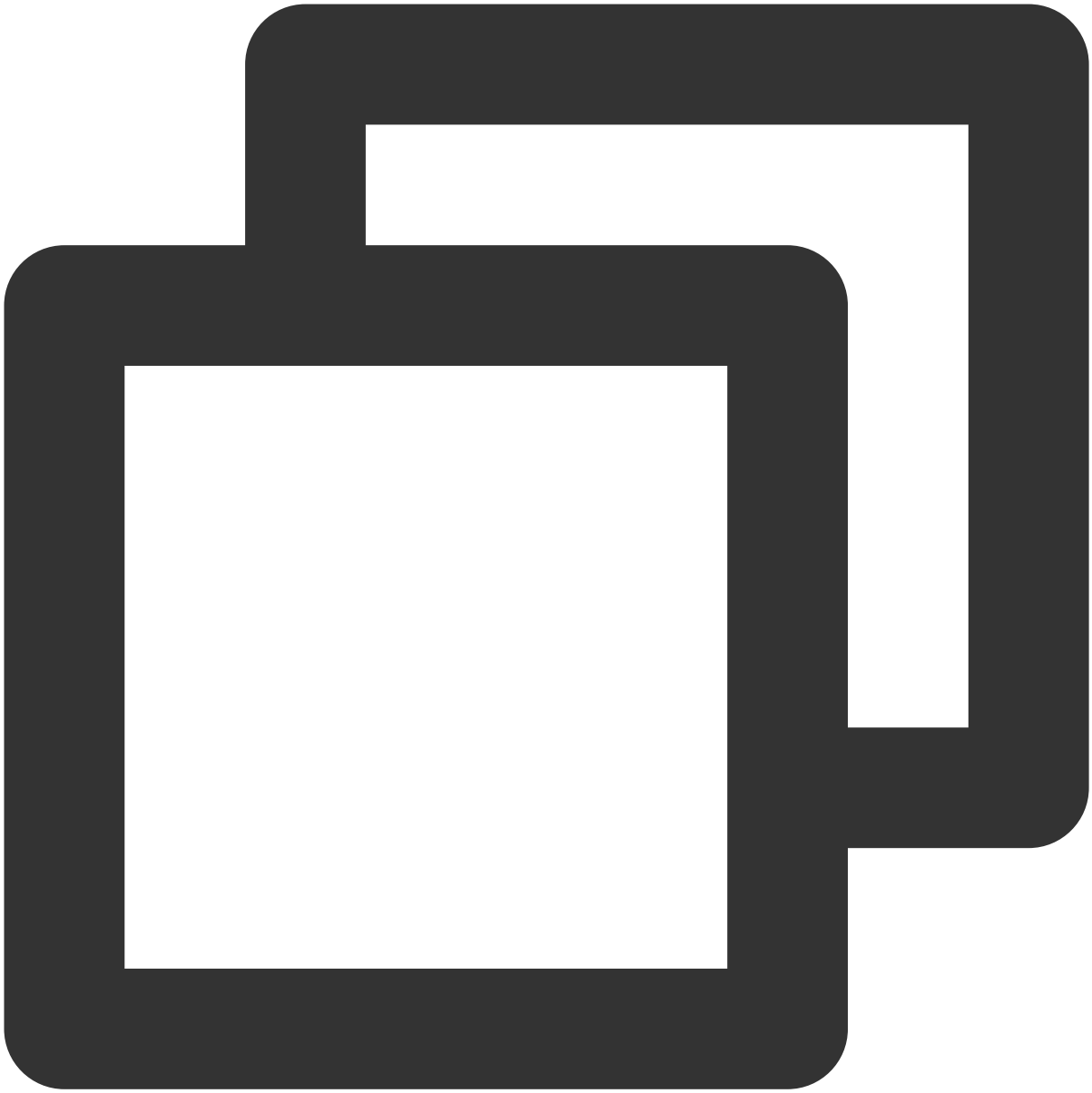
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```
CosResult CosAPI::CreateAudioAuditingJob(const CreateAudioAuditingJobReq& req, Crea
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";
std::string object_name = "test.mp3";

CreateAudioAuditingJobReq req(bucket_name);
CreateAudioAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetObject(object_name);
req.SetBizType("b81d45f94b91a683255e9a9506f45a11");
```

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```
// req.SetDetectType("Porn,Ads");

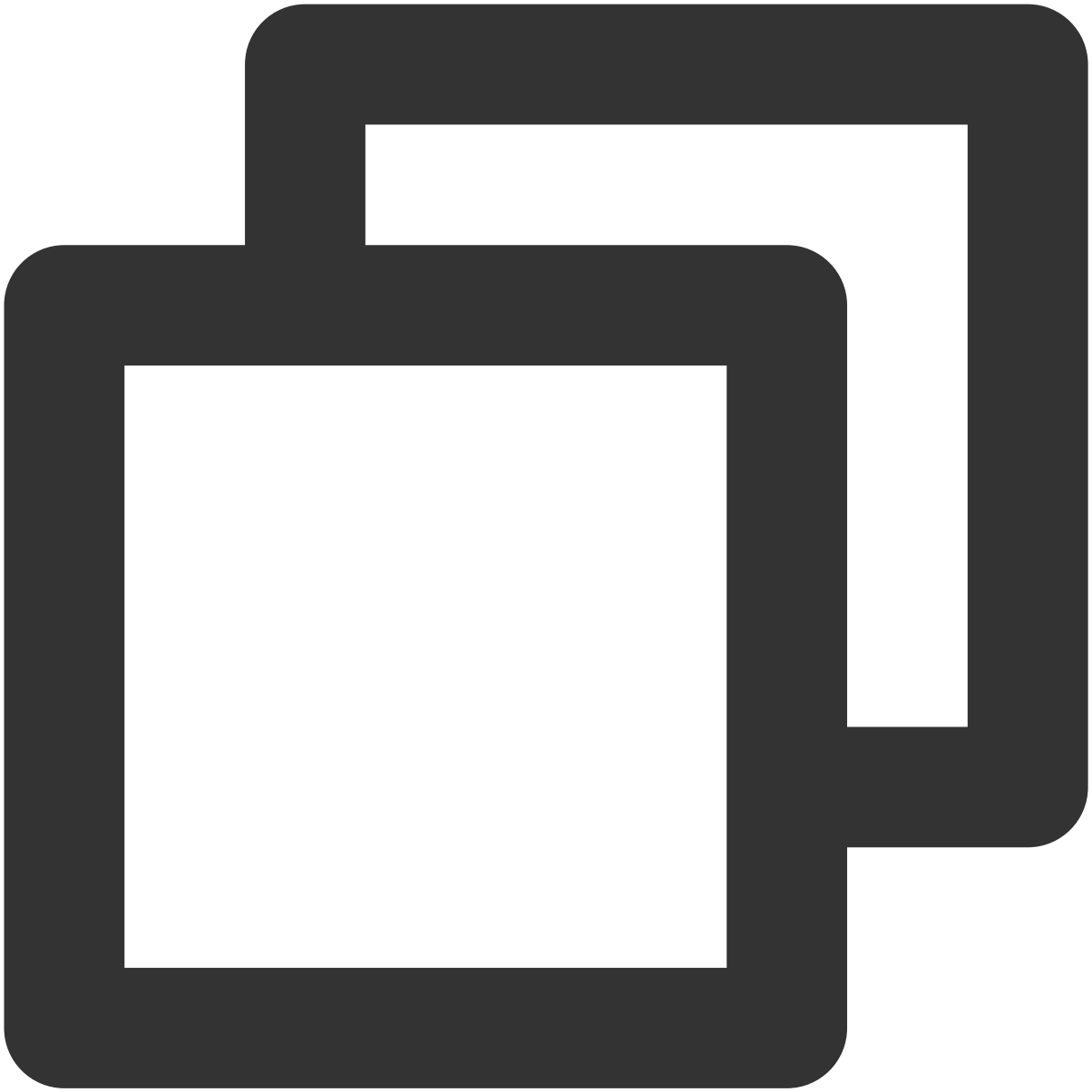
// Call the API to get the job response object
CosResult result = cos.CreateAudioAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is created successfully, you can call the member funct
} else {
    // If the moderation job failed to be created, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`CreateAudioAuditing` operation request	CreateAudioAuditingJobReq	Yes
resp	`CreateAudioAuditing` operation response	CreateAudioAuditingJobResp	Yes

`CreateAudioAuditingJobReq` provides the following member functions:

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```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the input audio to be moderated
void SetInput(const AuditingInput& input);
// Set moderation configuration rules
void SetConf(const Conf& conf);

// conf
// Unique identifier of the moderation policy. You can configure the scenes you wan
// You can get `BizType` in the console. If `BizType` is specified, the moderation
void SetBizType(const std::string& biz_type);
```

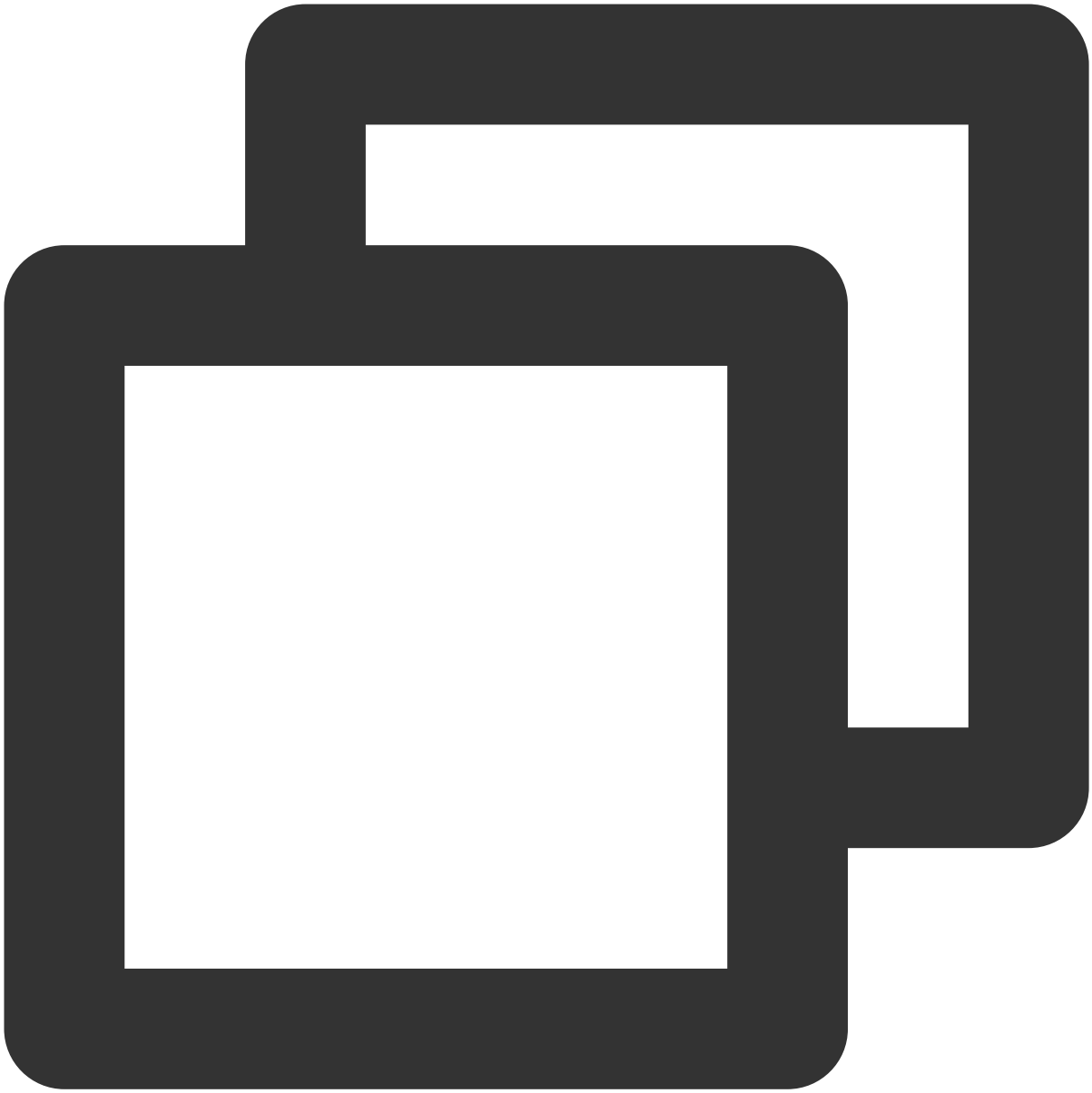
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```
// The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising).
void SetDetectType(const std::string& detect_type);
// Callback address, which must start with `http://` or `https://`.
void SetCallBack(const std::string& callback);
// Structure of the callback content. Valid values: `Simple` (the callback content
void SetCallBackVersion(const std::string& callback_version);


// input
// Name of the audio file stored in the COS bucket; for example, if the file is `au
void SetObject(const std::string& object);
// Full URL of the audio file, such as `http://examplebucket-1250000000.cos.ap-shan
void SetUrl(const std::string& url);
// This field will return the original content in the moderation result, which can
void SetDataId(const std::string& data_id);
// Business field.
void SetUserInfo(const UserInfo& user_info);
```

`CreateAudioAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
AudioAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `AudioAuditingJobsDetail` structure. For specific response parameters, see Submitting Audio Moderation

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Job.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

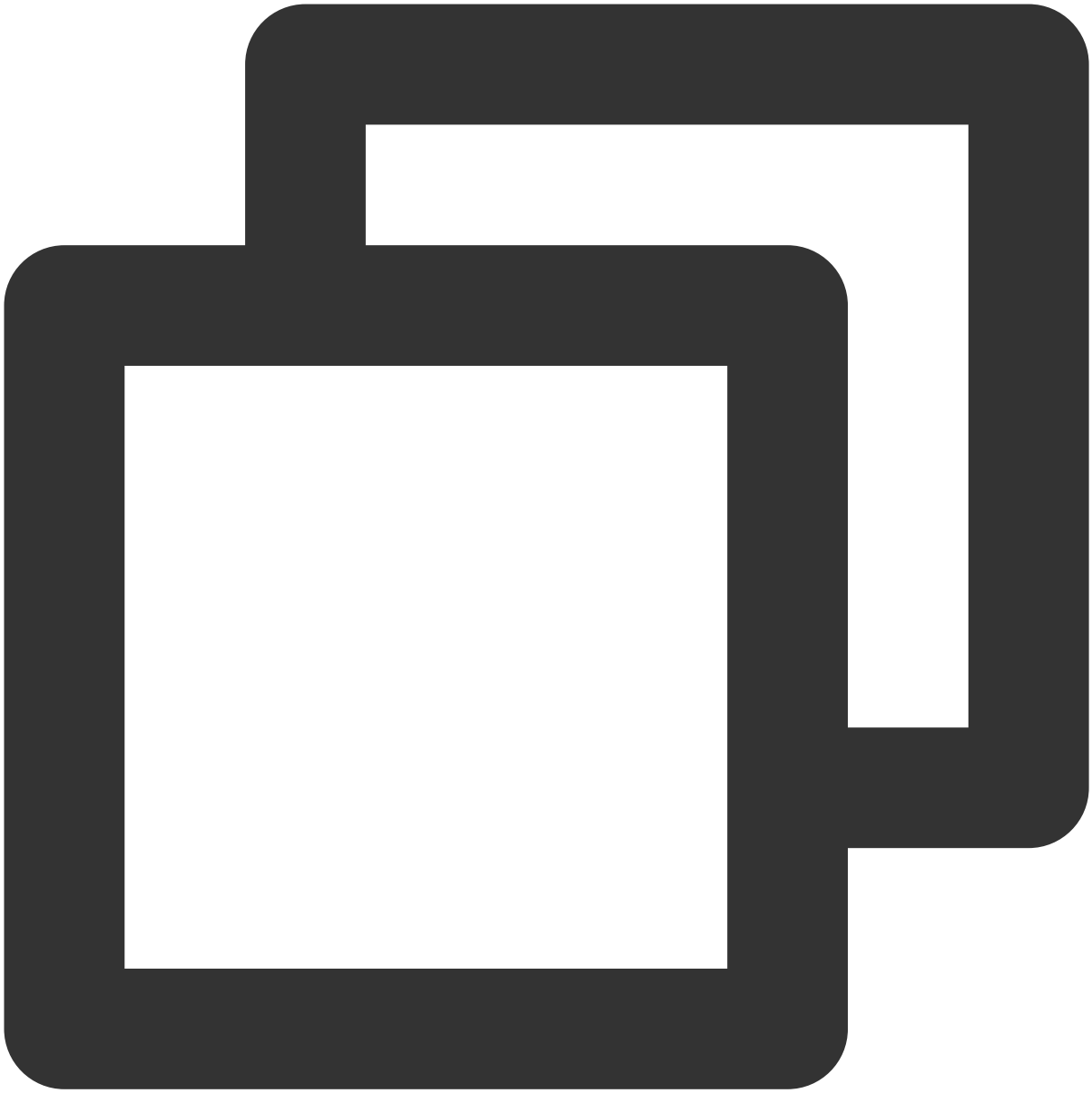
Querying Audio Moderation Job Result

Feature description

This API is used to query the status and result of an audio moderation job.

Method prototype

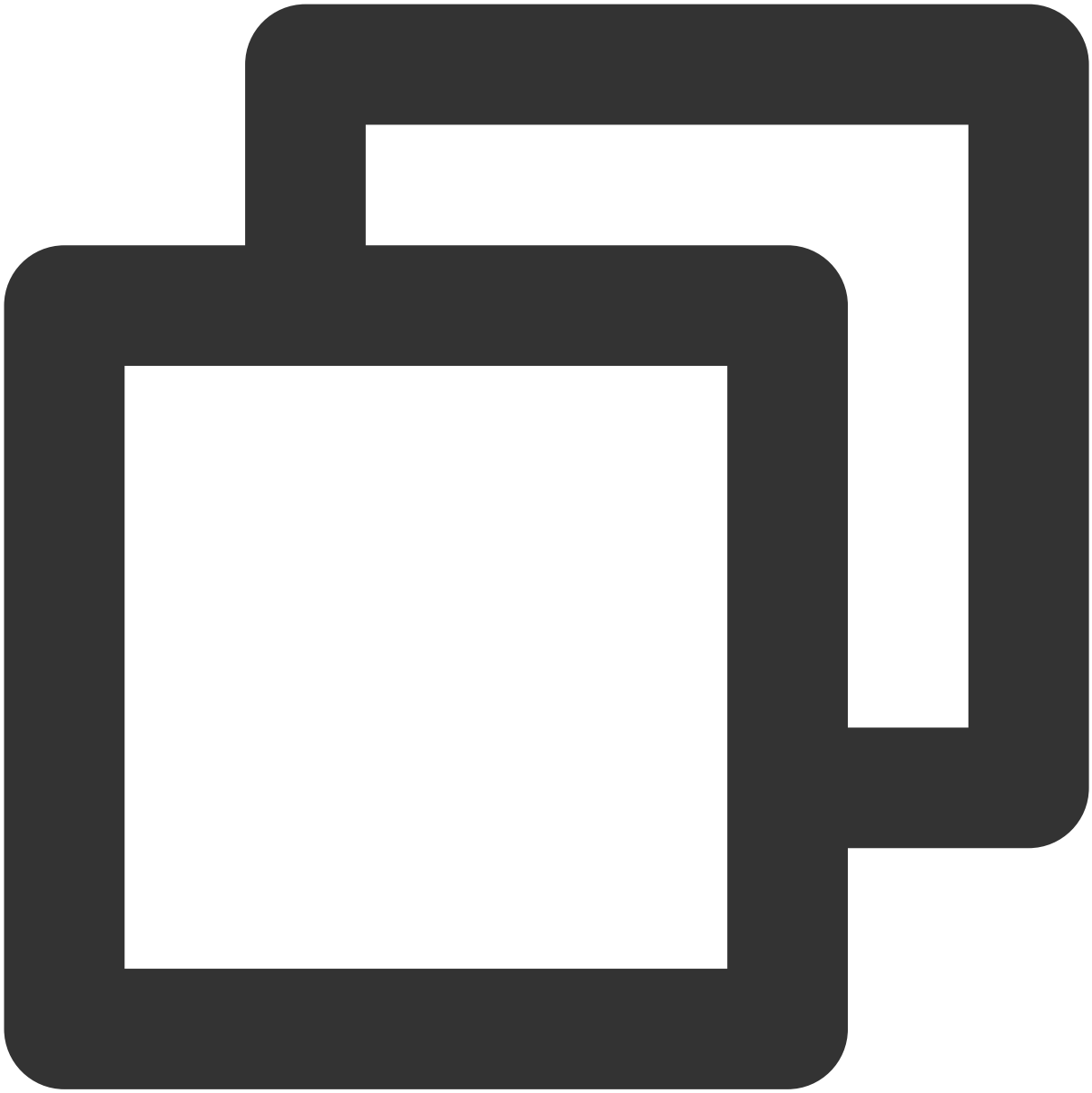
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```
CosResult DescribeAudioAuditingJob(const DescribeAudioAuditingJobReq& req, Describe
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

DescribeAudioAuditingJobReq req(bucket_name);
DescribeAudioAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetJobId("aab1ca9fc8a3ed11ea834c525400863904");

// Call the API to get the job response object
```

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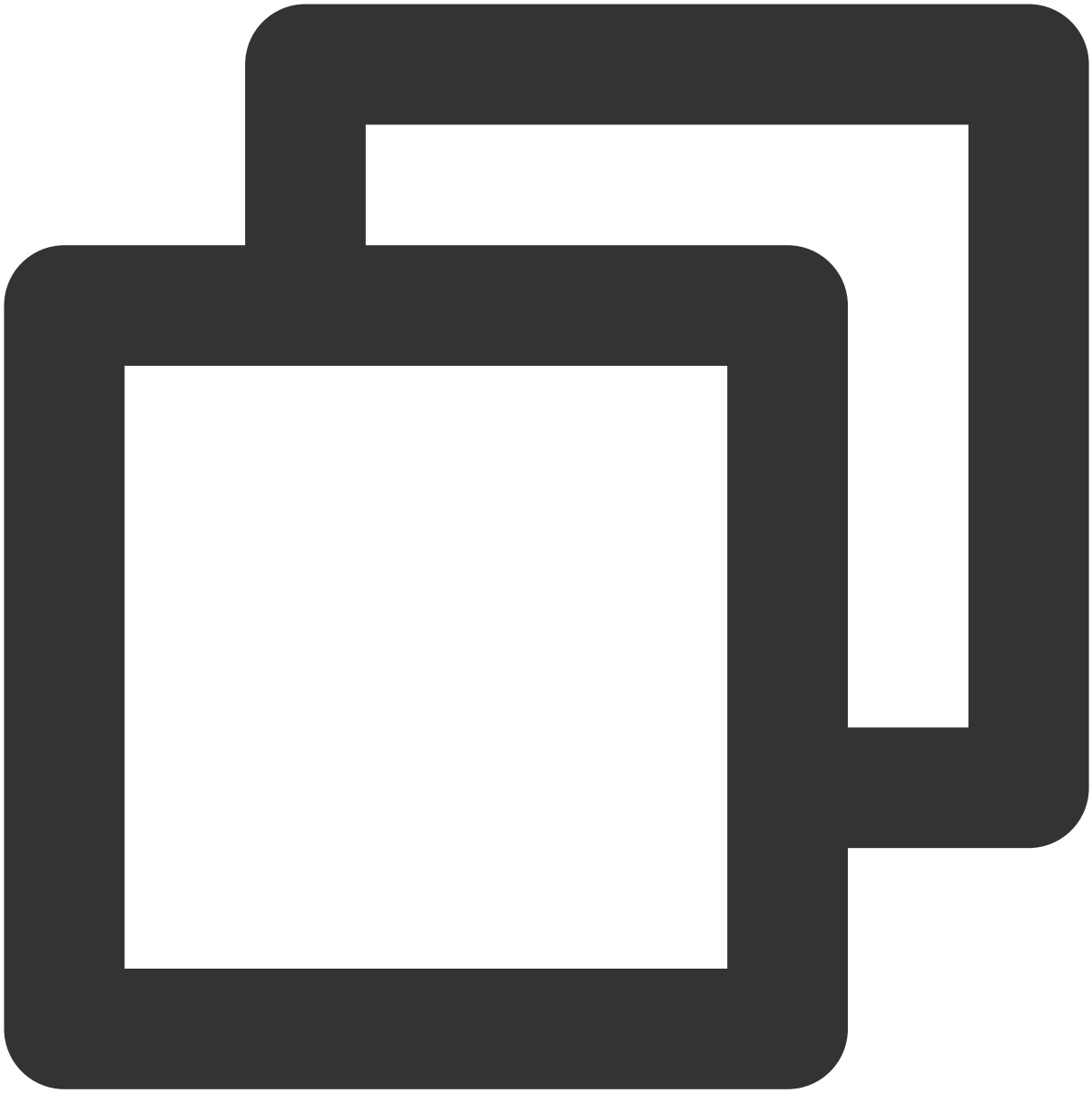
```
CosResult result = cos.DescribeAudioAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is queried successfully, you can call the member funct
} else {
    // If the moderation job failed to be queried, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`DescribeAudioAuditingJob` operation request	DescribeAudioAuditingJobReq	Yes
resp	`DescribeAudioAuditingJob` operation response	DescribeAudioAuditingJobResp	Yes

`DescribeAudioAuditingJobReq` provides the following member functions:

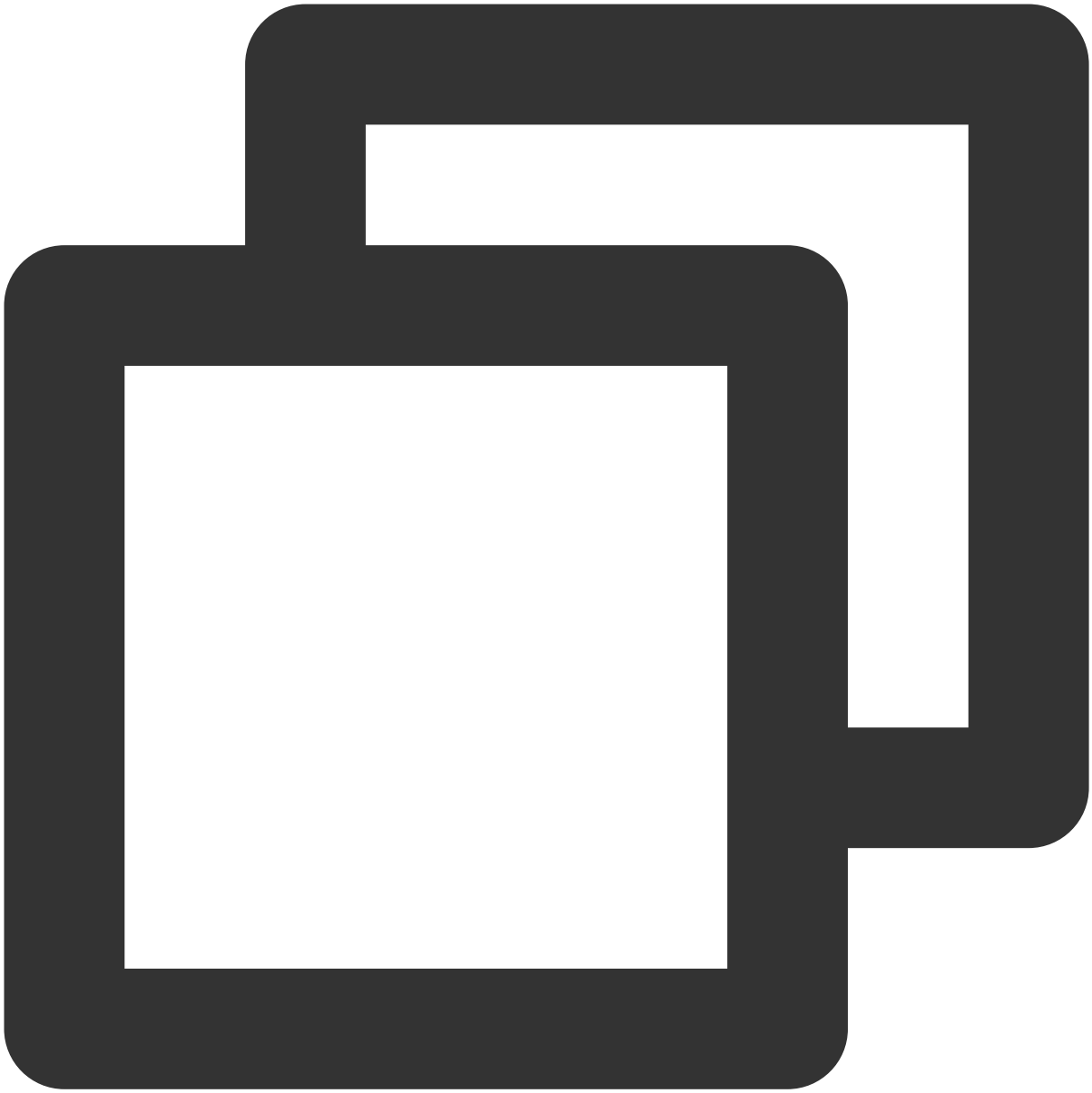
©2013-2022 Tencent Cloud. All rights reserved.



```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the ID of the moderation job to be queried
void SetJobId(const std::string& job_id);
```

`DescribeAudioAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
AudioAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `AudioAuditingJobsDetail` structure. For specific response parameters, see Querying Audio Moderation Job

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Result.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

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Text Moderation

Last updated：2024-02-29 16:13:43

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for text moderation.

API	Description
Submitting text moderation job	Submits text moderation job.
Querying text moderation job result	Queries the result of specified text moderation job.

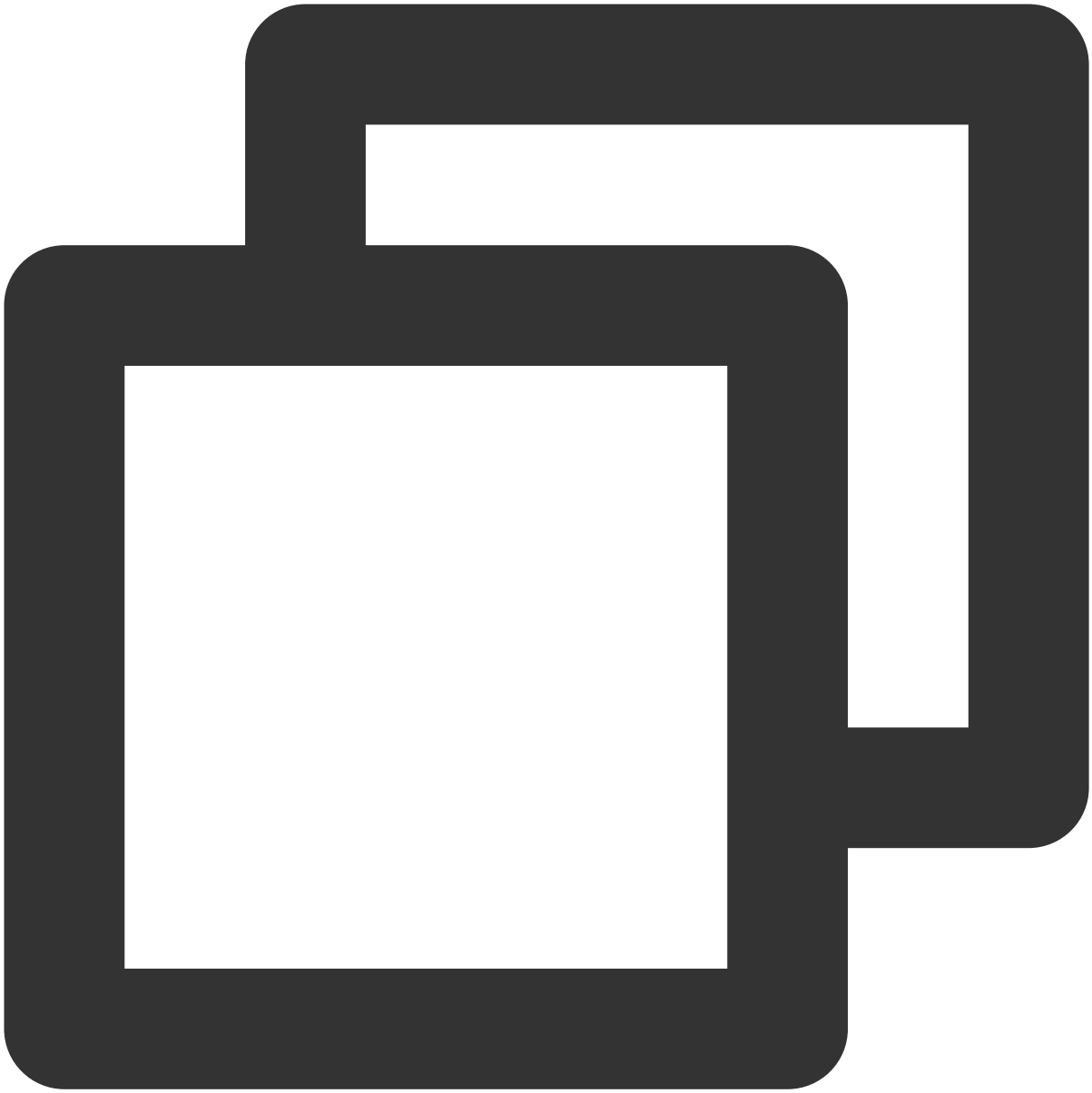
Submitting Text Moderation Job

Feature description

This API is used to submit a text moderation job.

Method prototype

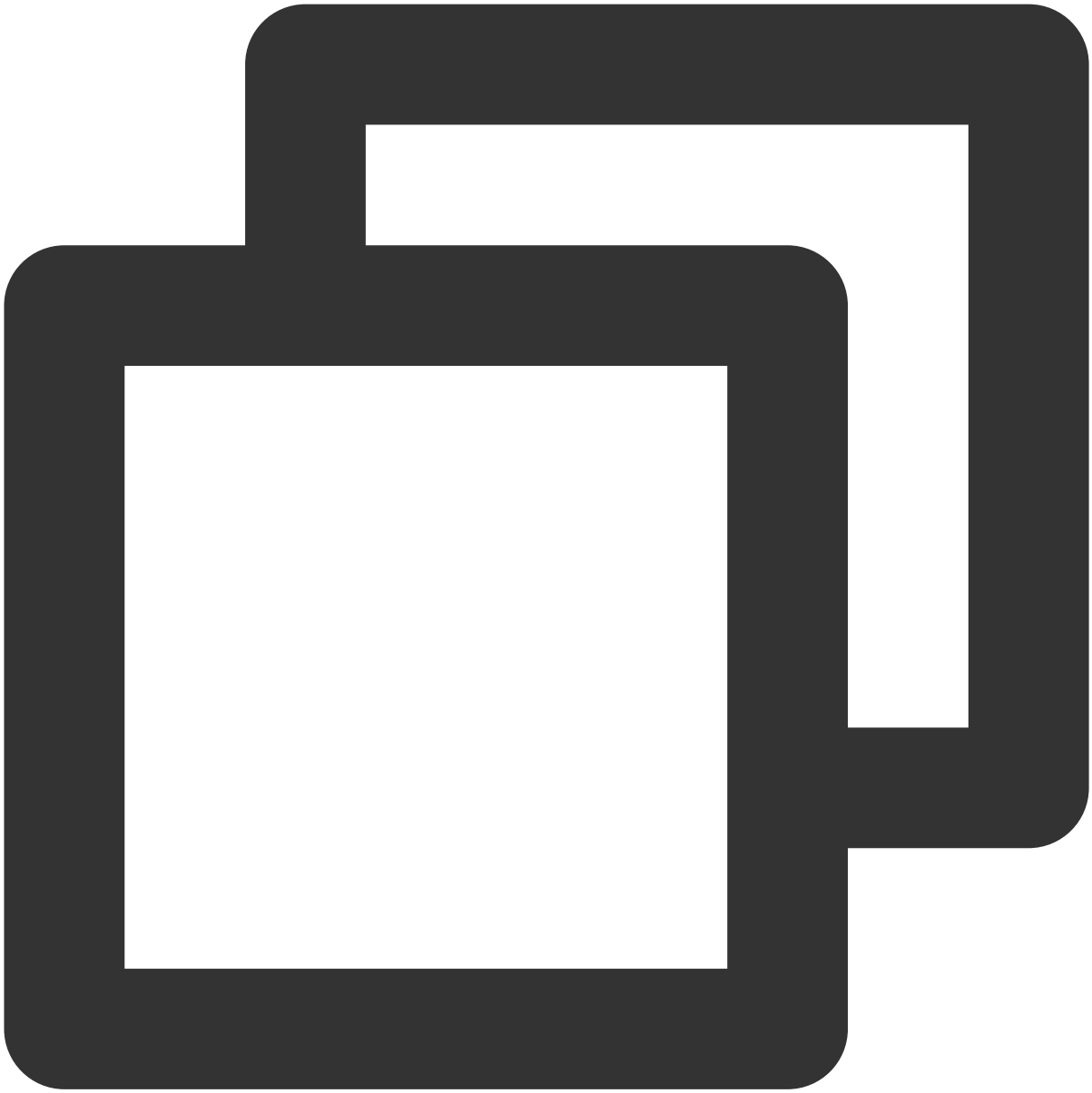
©2013-2022 Tencent Cloud. All rights reserved.



```
CosResult CosAPI::CreateTextAuditingJob(const CreateTextAuditingJobReq& req, Create
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";
std::string object_name = "test.txt";

CreateTextAuditingJobReq req(bucket_name);
CreateTextAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetObject(object_name);
req.SetBizType("b81d45f94b91a683255e9a9506f45a11");
```

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```
// req.SetDetectType("Porn,Ads");

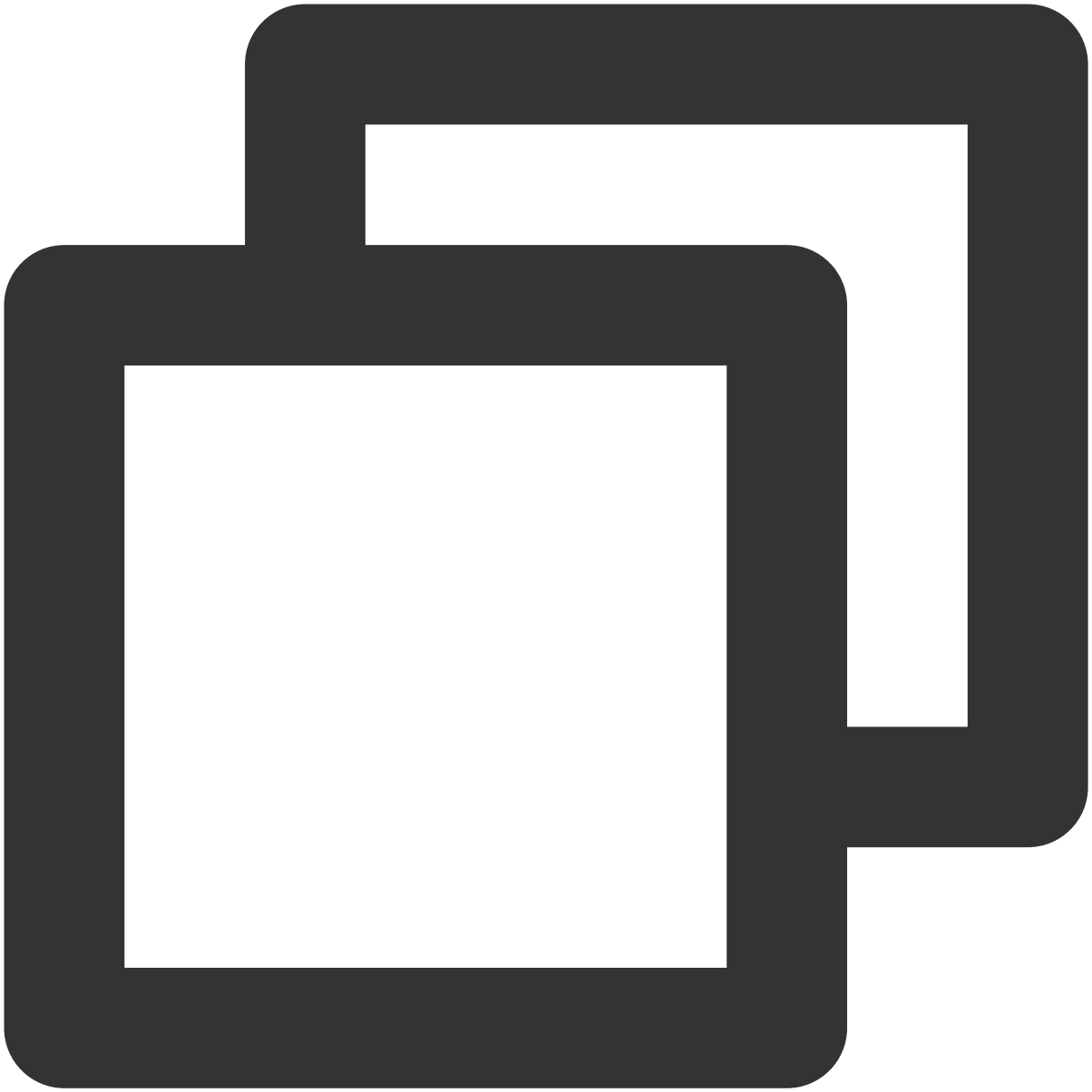
// Call the API to get the job response object
CosResult result = cos.CreateTextAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is created successfully, you can call the member funct
} else {
    // If the moderation job failed to be created, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`CreateTextAuditing` operation request	CreateTextAuditingJobReq	Yes
resp	`CreateTextAuditing` operation response	CreateTextAuditingJobResp	Yes

`CreateTextAuditingJobReq` provides the following member functions:

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```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the input video to be moderated
void SetInput(const AuditingInput& input);
// Set moderation configuration rules
void SetConf(const Conf& conf);

// conf
// Unique identifier of the moderation policy. You can configure the scenes you wan
// You can get `BizType` in the console. If `BizType` is specified, the moderation
void SetBizType(const std::string& biz_type);
```

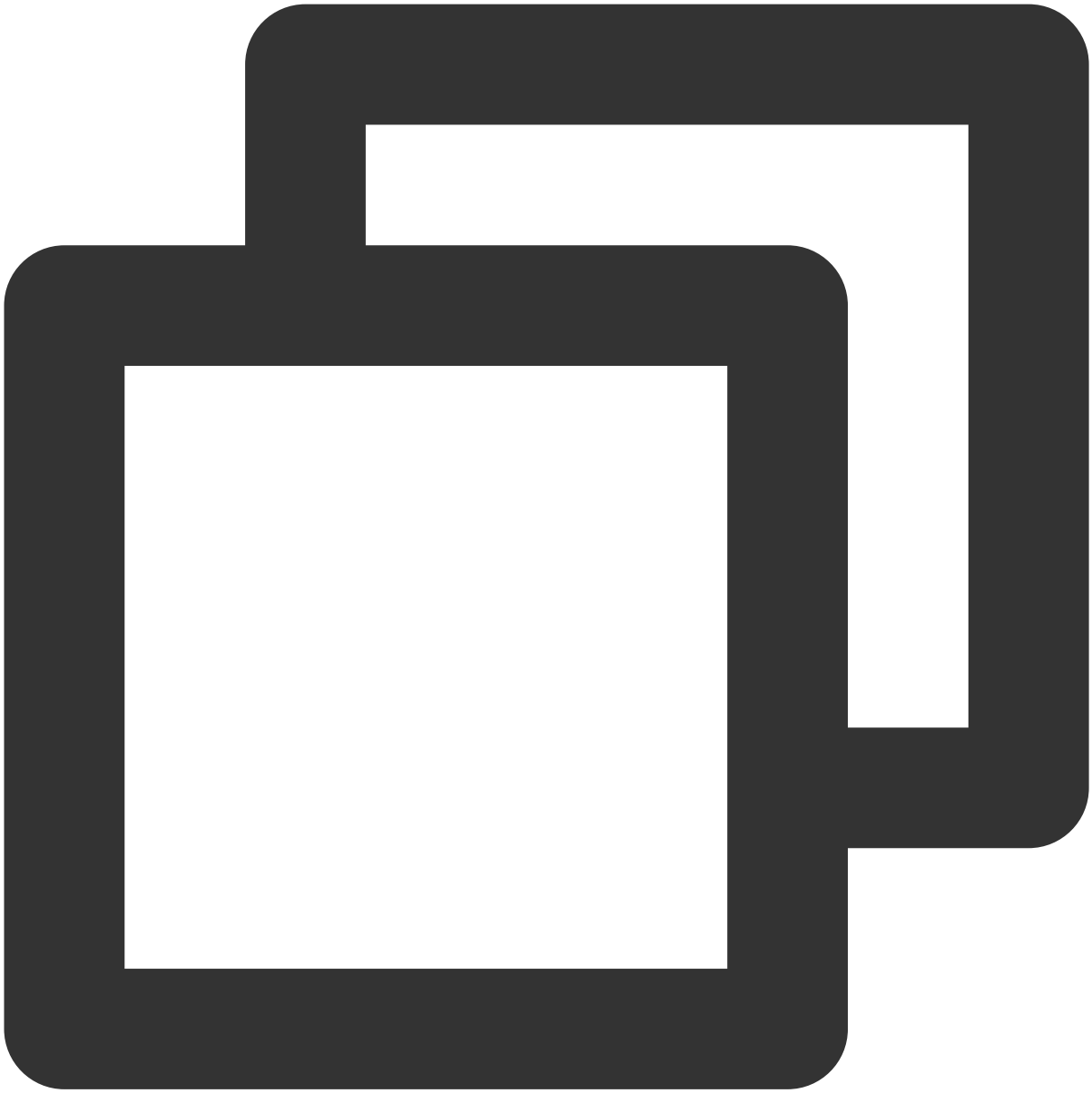
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```
// The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising).
void SetDetectType(const std::string& detect_type);
// Callback address, which must start with `http://` or `https://`.
void SetCallBack(const std::string& callback);
// Structure of the callback content. Valid values: `Simple` (the callback content
void SetCallBackVersion(const std::string& callback_version);


// input
// Name of the text file stored in the current COS bucket; for example, if the file
void SetObject(const std::string& object);
// Full URL of the text file, such as `https://www.test.com/test.txt`.
void SetUrl(const std::string& url);
// This field will return the original content in the moderation result, which can
void SetDataId(const std::string& data_id);
// Business field.
void SetUserInfo(const UserInfo& user_info);
// When the input content is plain text, it needs to be Base64-encoded first. The l
void SetContent(const std::string& content) { m_input.SetContent(content); }
```

`CreateTextAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
TextAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `TextAuditingJobsDetail` structure. For specific response parameters, see Submitting Text Moderation Job.

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Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

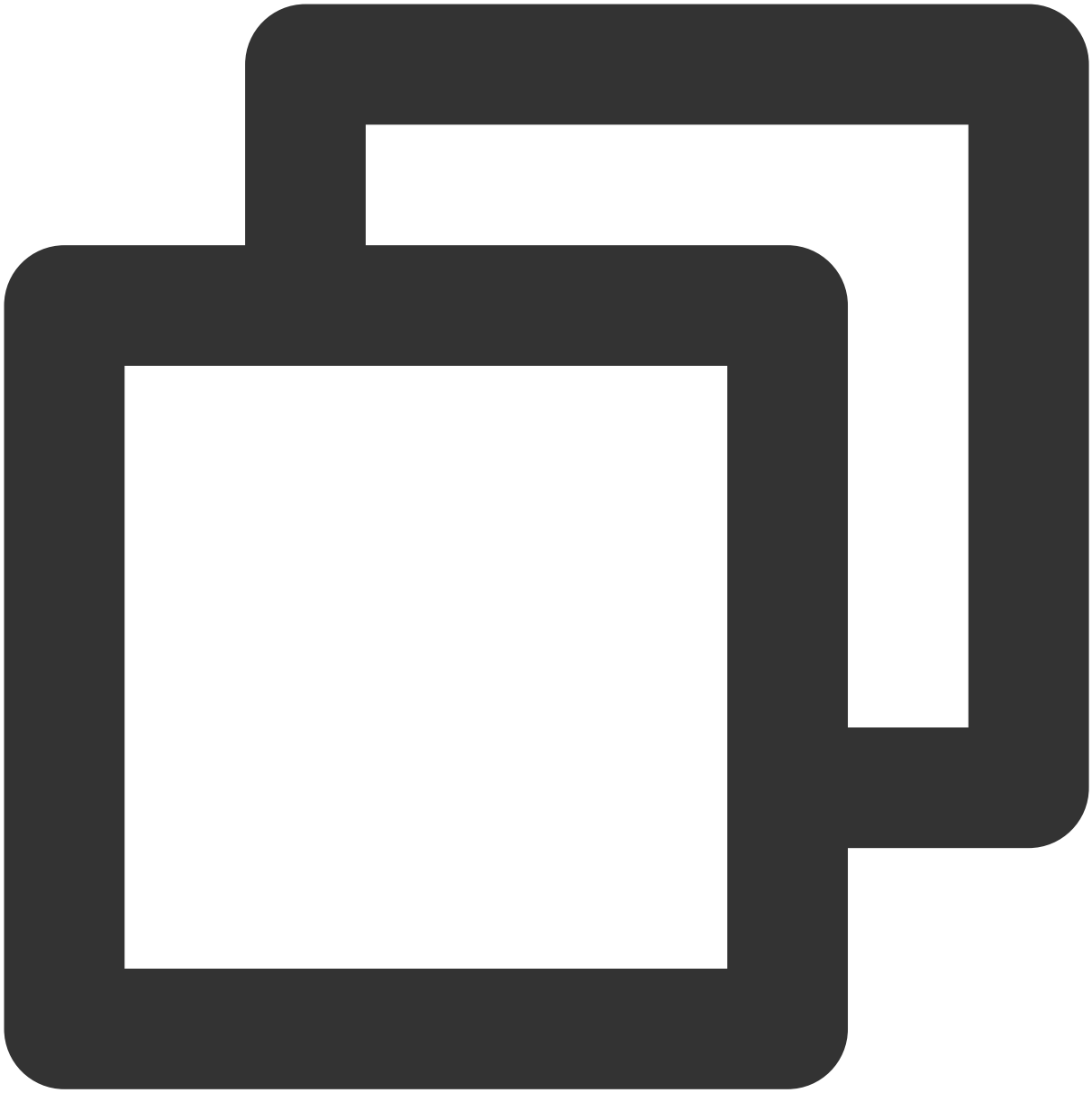
Querying Text Moderation Job Result

Feature description

This API is used to query the status and result of a text moderation job.

Method prototype

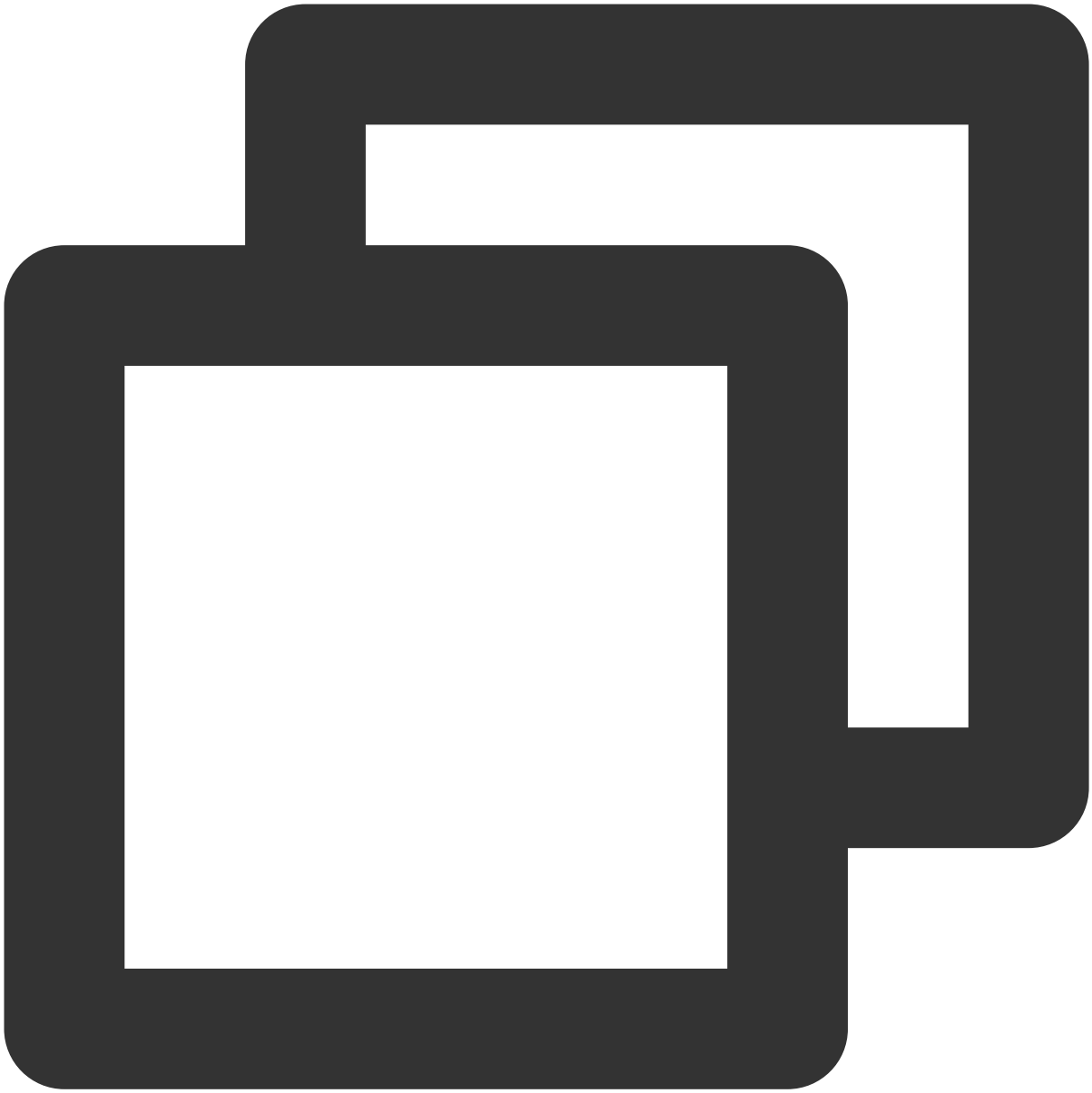
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```
CosResult DescribeTextAuditingJob(const DescribeTextAuditingJobReq& req, DescribeTe
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

DescribeTextAuditingJobReq req(bucket_name);
DescribeTextAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetJobId("aab1ca9fc8a3ed11ea834c525400863904");

// Call the API to get the job response object
```

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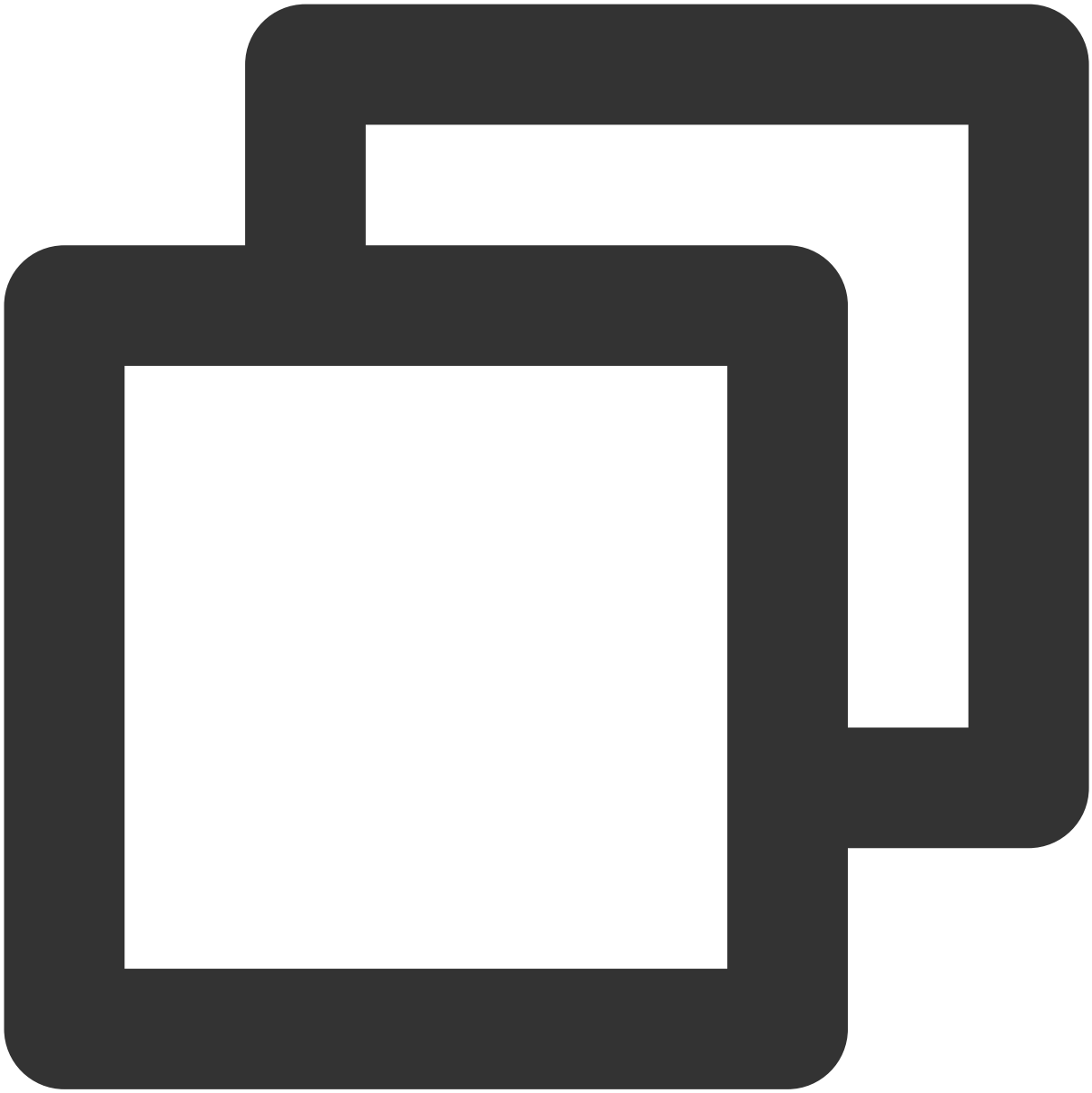
```
CosResult result = cos.DescribeTextAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is queried successfully, you can call the member funct
} else {
    // If the moderation job failed to be queried, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`DescribeTextAuditingJob` operation request	DescribeTextAuditingJobReq	Yes
resp	`DescribeTextAuditingJob` operation response	DescribeTextAuditingJobResp	Yes

`DescribeTextAuditingJobReq` provides the following member functions:

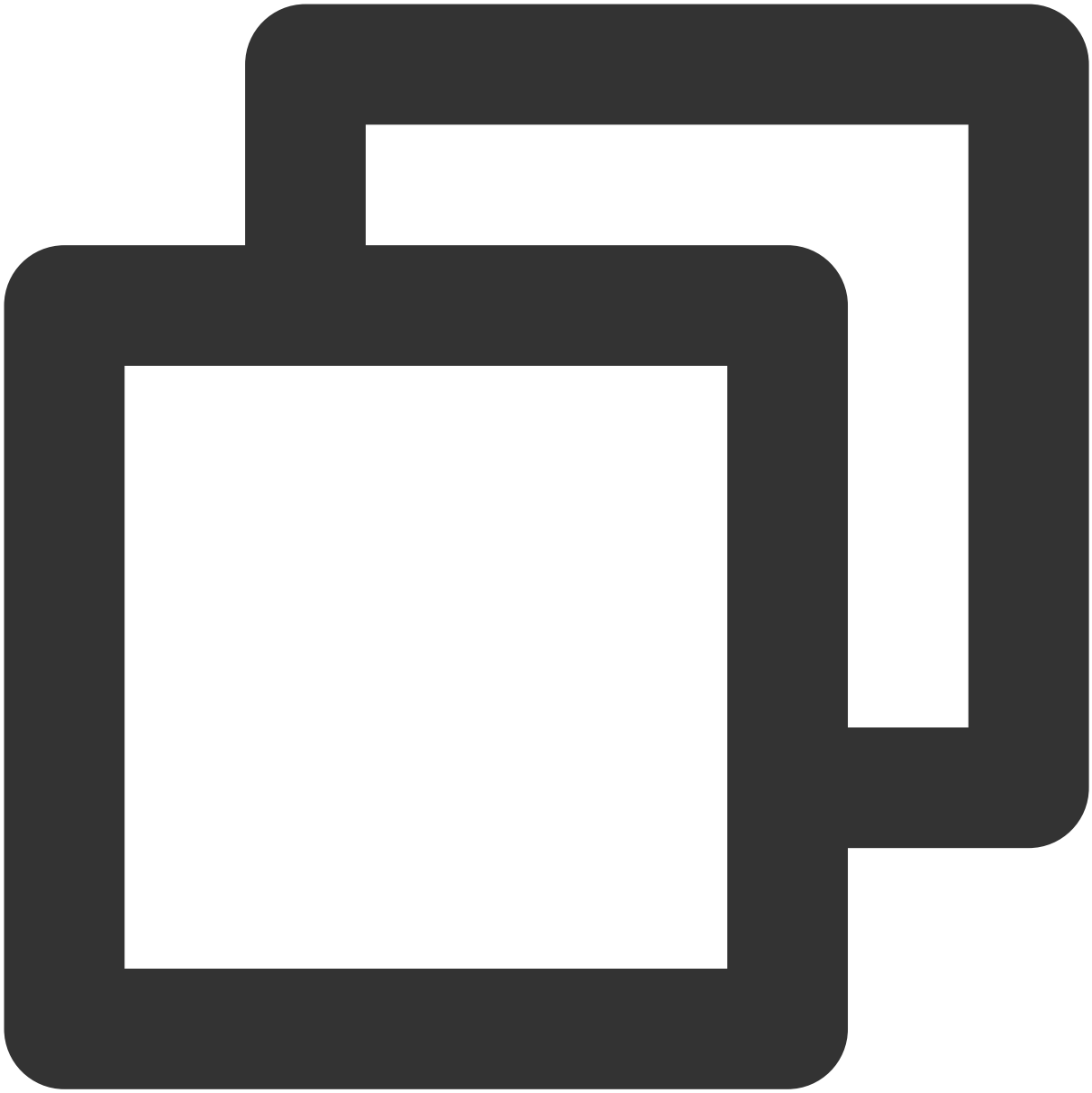
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```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the ID of the moderation job to be queried
void SetJobId(const std::string& job_id);
```

`DescribeTextAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
TextAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `TextAuditingJobsDetail` structure. For specific response parameters, see Querying Text Moderation Job

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Result.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

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File Moderation

Last updated：2024-02-29 16:13:43

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for file moderation.

API	Description
Submitting file moderation job	Submits file moderation job.
Querying file moderation job result	Queries the result of specified file moderation job.

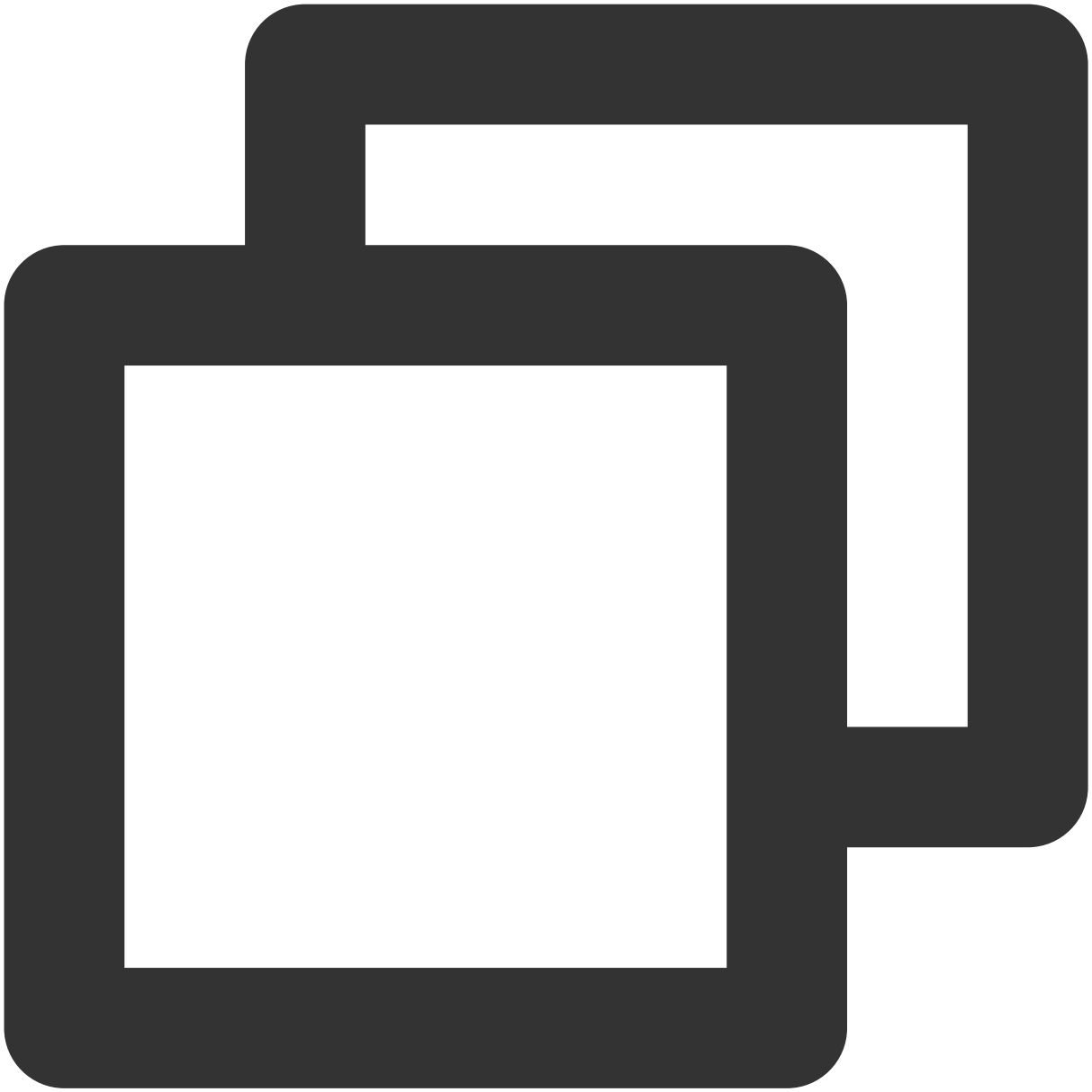
Submitting File Moderation Job

Feature description

This API is used to submit a file moderation job.

Method prototype

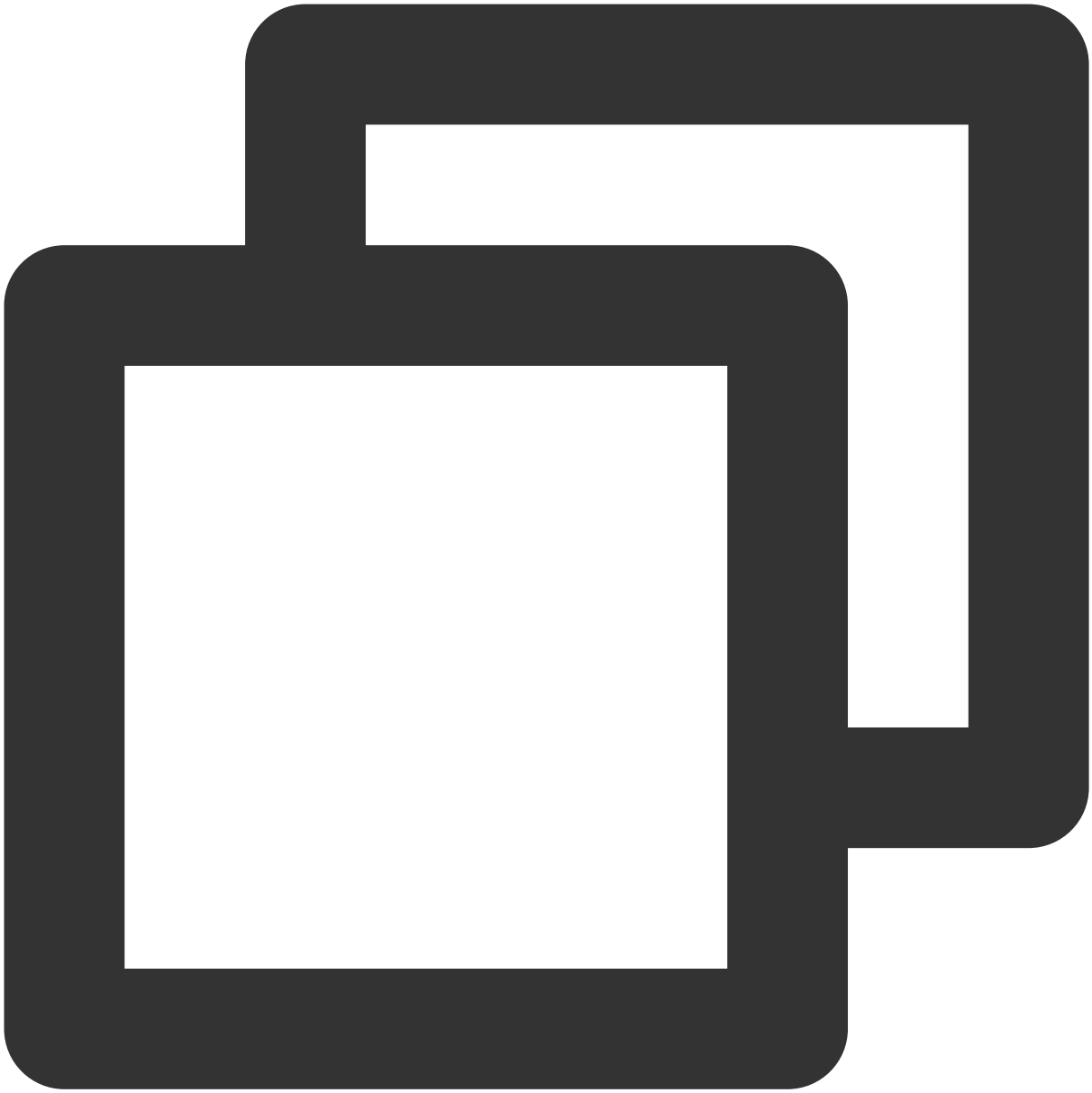
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```
CosResult CosAPI::CreateDocumentAuditingJob(const CreateDocumentAuditingJobReq& req
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";
std::string object_name = "test.docx";

CreateDocumentAuditingJobReq req(bucket_name);
CreateDocumentAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetObject(object_name);
req.SetType("docx");
```

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```
req.SetBizType("b81d45f94b91a683255e9a9506f45a11");
// req.SetDetectType("Porn,Ads");

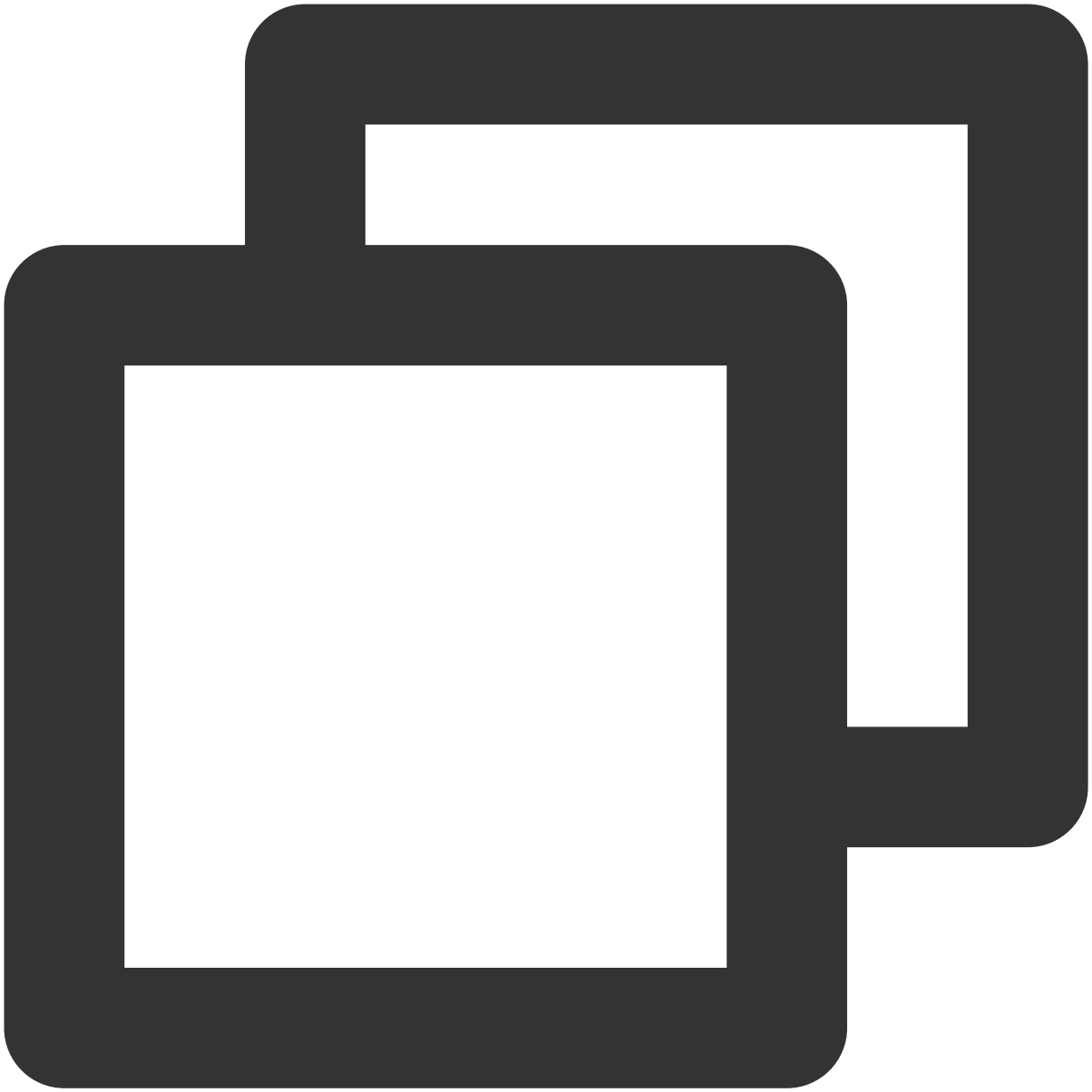
// Call the API to get the job response object
CosResult result = cos.CreateDocumentAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is created successfully, you can call the member funct
} else {
    // If the moderation job failed to be created, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`CreateDocumentAuditing` operation request	CreateDocumentAuditingJobReq	Yes
resp	`CreateDocumentAuditing` operation response	CreateDocumentAuditingJobResp	Yes

`CreateDocumentAuditingJobReq` provides the following member functions:

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```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the input video to be moderated
void SetInput(const AuditingInput& input);
// Set moderation configuration rules
void SetConf(const Conf& conf);

// conf
// Unique identifier of the moderation policy. You can configure the scenes you wan
// You can get `BizType` in the console. If `BizType` is specified, the moderation
void SetBizType(const std::string& biz_type);
```

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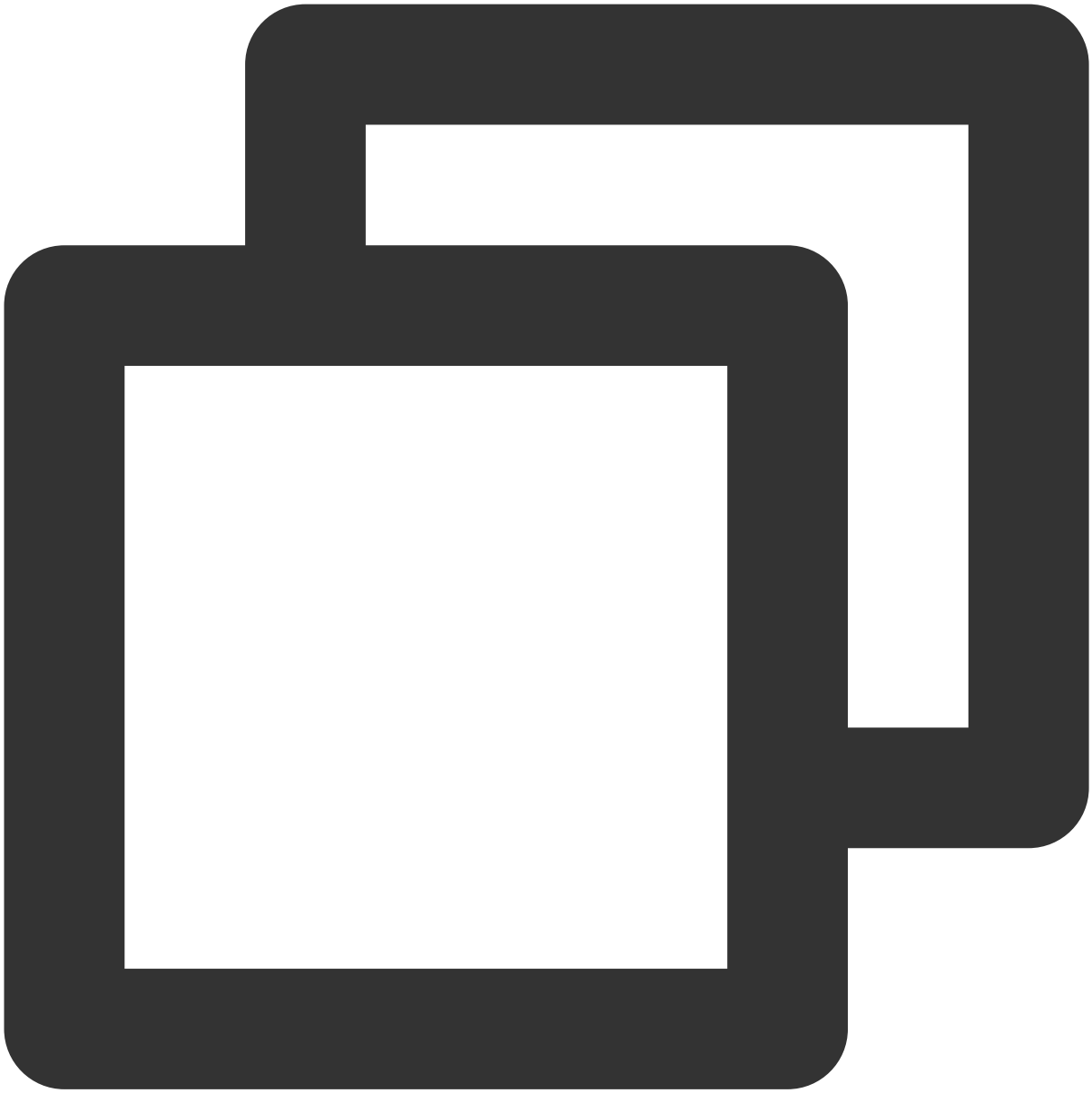
```
// The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising).
void SetDetectType(const std::string& detect_type);
// Callback address, which must start with `http://` or `https://`.
void SetCallBack(const std::string& callback);



// input
// Name of the file stored in the COS bucket; for example, if the file is `test.doc
void SetObject(const std::string& object);
// Full URL of the file, such as `http://www.example.com/doctest.doc`. Either `Obje
void SetUrl(const std::string& url);
// This field will return the original content in the moderation result, which can
void SetDataId(const std::string& data_id);
// Business field.
void SetUserInfo(const UserInfo& user_info);
// File type. If this parameter is not specified, the file extension will be used a
void SetType(const std::string& type);
```

`CreateDocumentAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
DocumentAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `DocumentAuditingJobsDetail` structure. For specific response parameters, see Submitting File Moderation

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Job.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

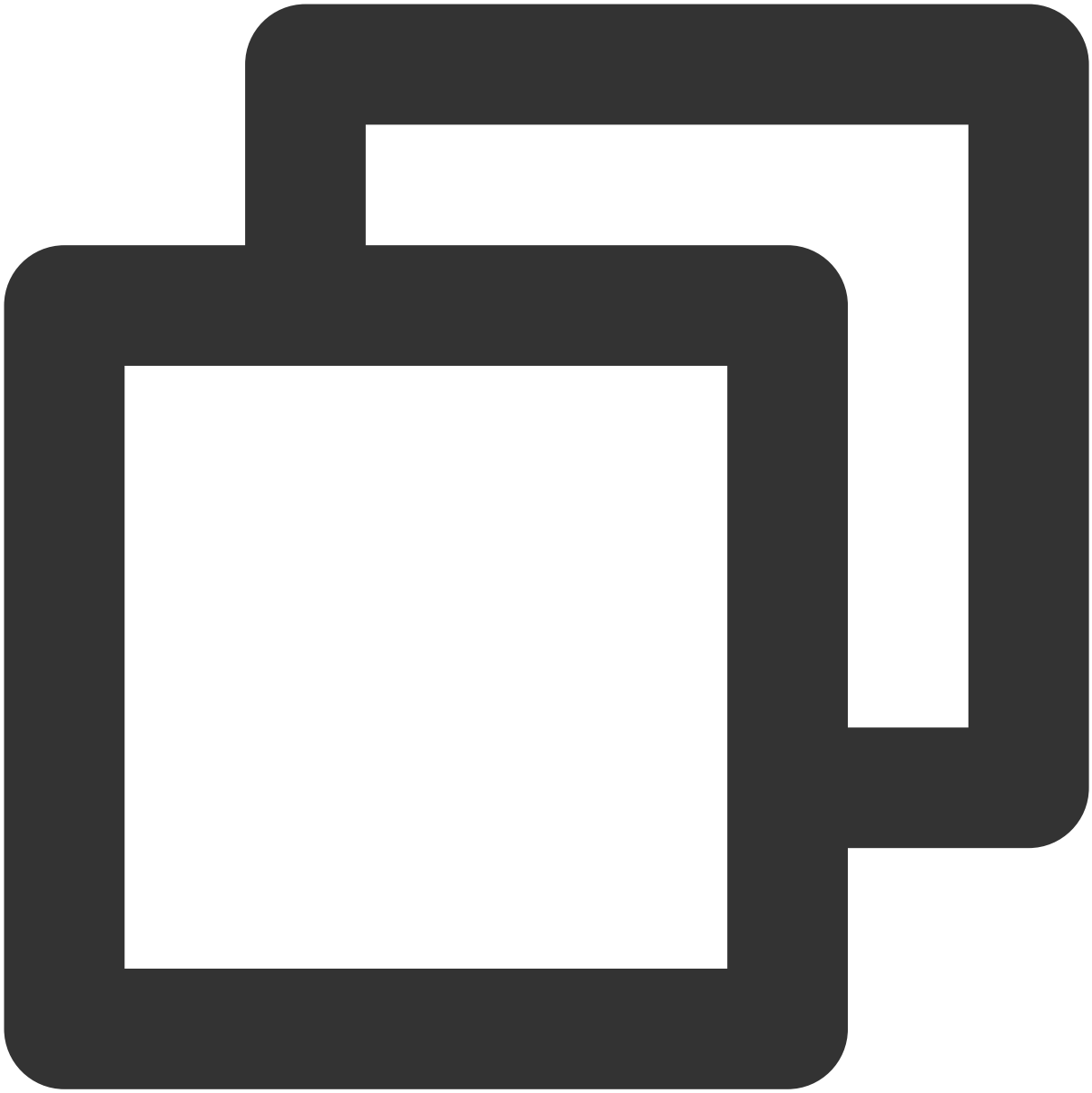
Querying File Moderation Job Result

Feature description

This API is used to query the status and result of a file moderation job.

Method prototype

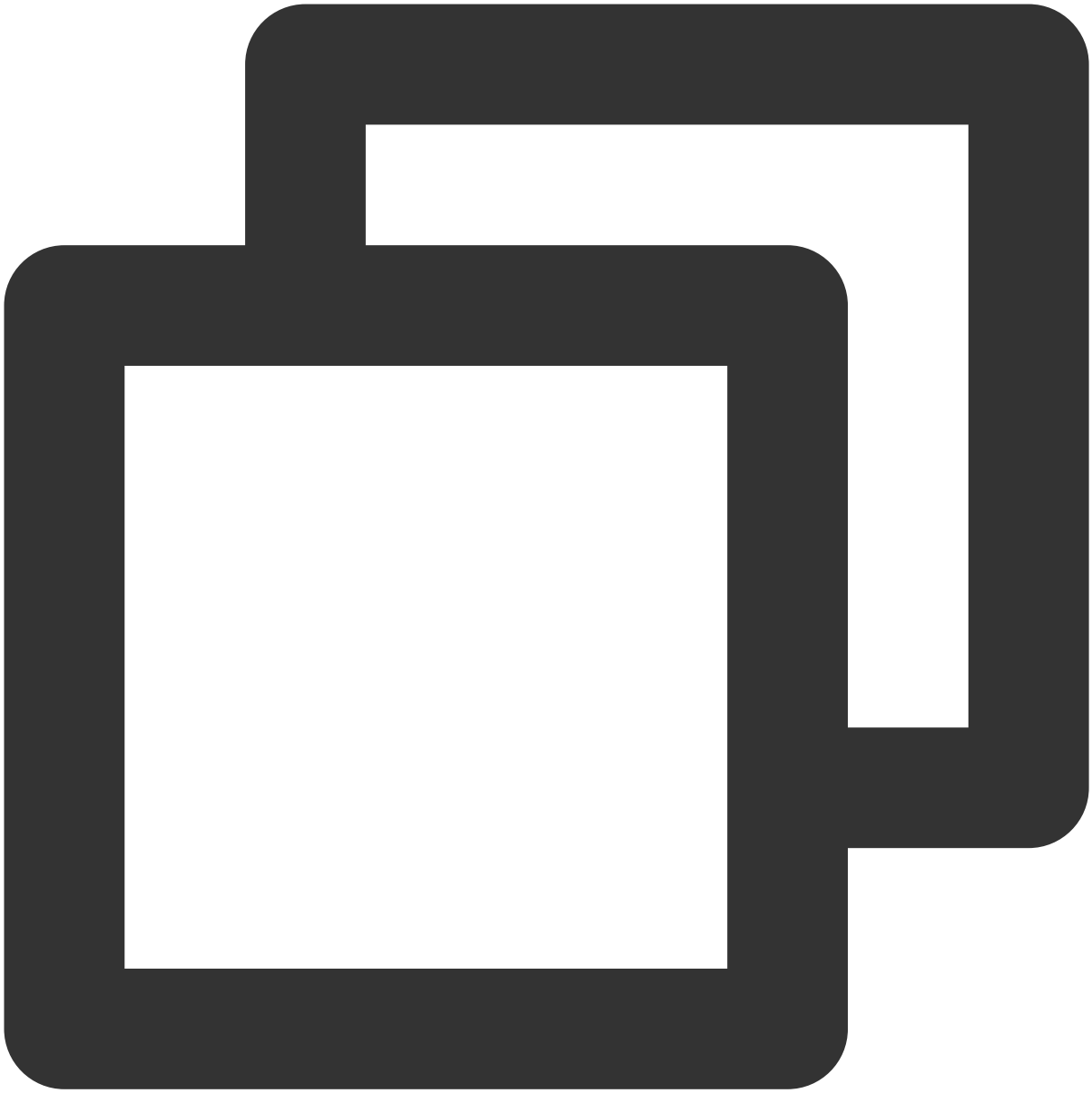
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```
CosResult DescribeDocumentAuditingJob(const DescribeDocumentAuditingJobReq& req, De
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

DescribeDocumentAuditingJobReq req(bucket_name);
DescribeDocumentAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetJobId("stb1ca9fc8a34c525400863904****");

// Call the API to get the job response object
```

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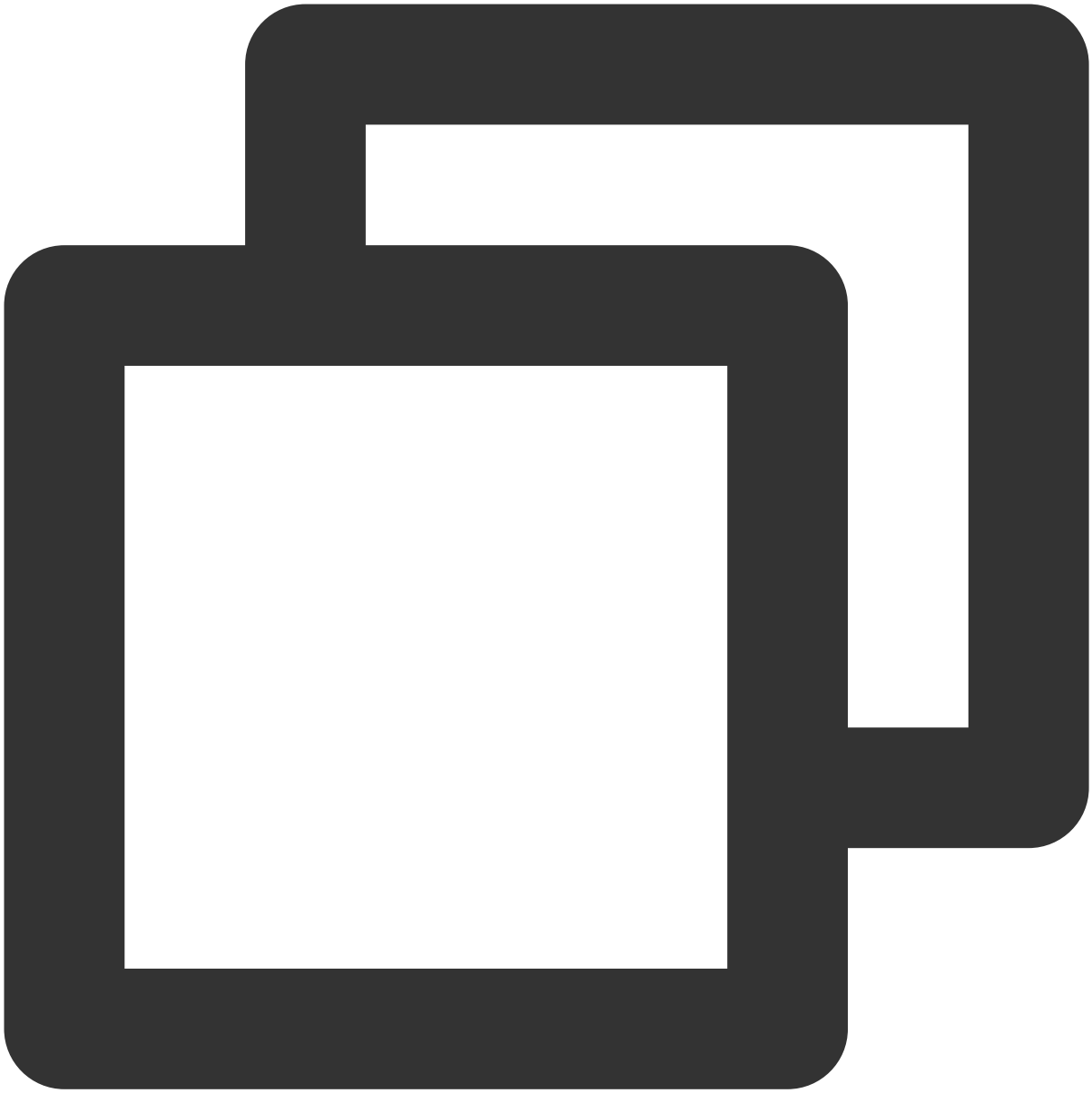
```
CosResult result = cos.DescribeDocumentAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is queried successfully, you can call the member funct
} else {
    // If the moderation job failed to be queried, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`DescribeDocumentAuditingJob` operation request	DescribeDocumentAuditingJobReq	Yes
resp	`DescribeDocumentAuditingJob` operation response	DescribeDocumentAuditingJobResp	Yes

`DescribeDocumentAuditingJobReq` provides the following member functions:

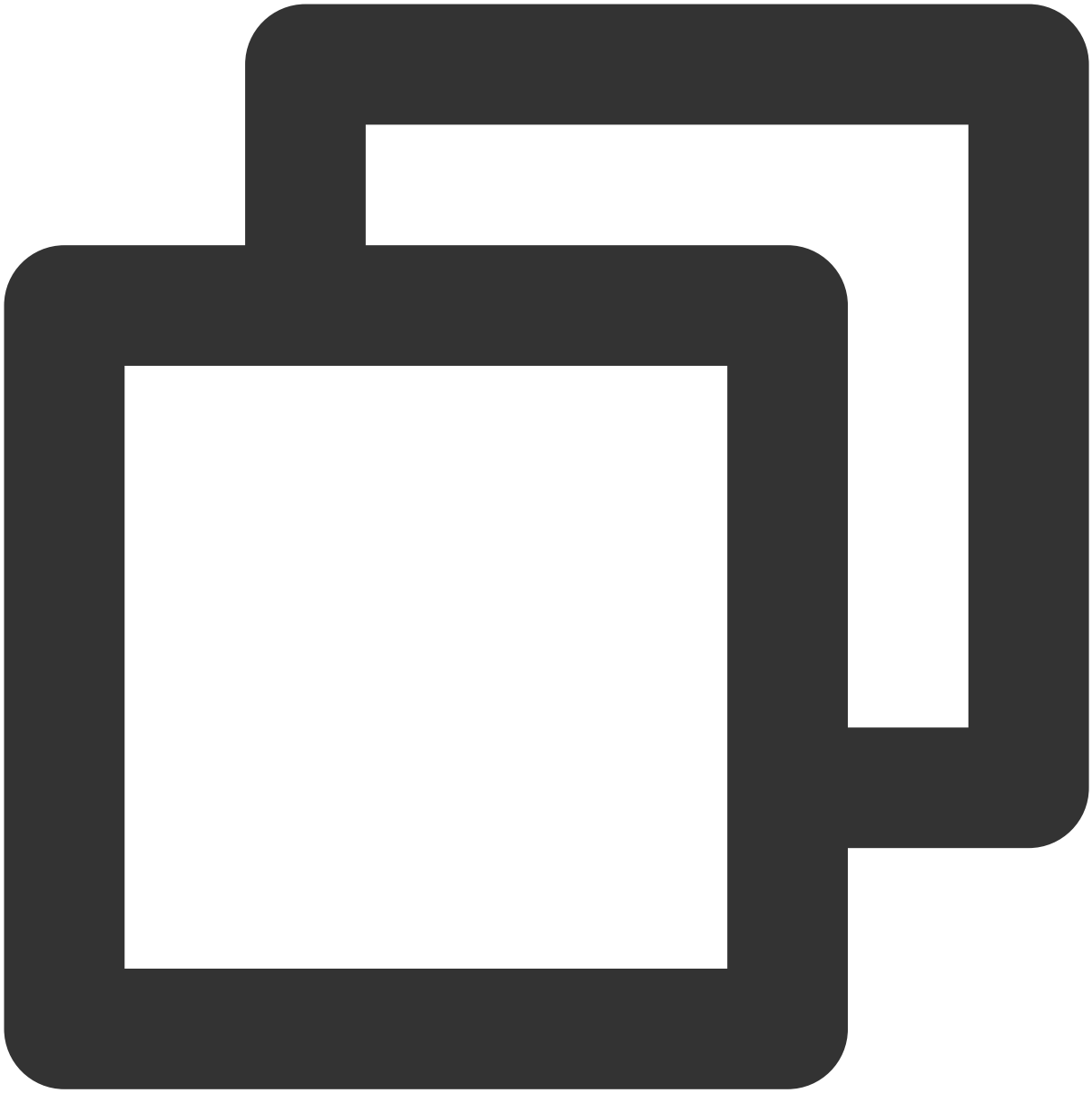
©2013-2022 Tencent Cloud. All rights reserved.



```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the ID of the moderation job to be queried
void SetJobId(const std::string& job_id);
```

`DescribeDocumentAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
DocumentAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `DocumentAuditingJobsDetail` structure. For specific response parameters, see Querying File Moderation

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Job Result.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

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Webpage Moderation

Last updated：2024-02-29 16:13:43

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for webpage moderation.

API	Description
Submitting webpage moderation job	Submits webpage moderation job.
Querying webpage moderation job result	Queries the result of specified webpage moderation job.

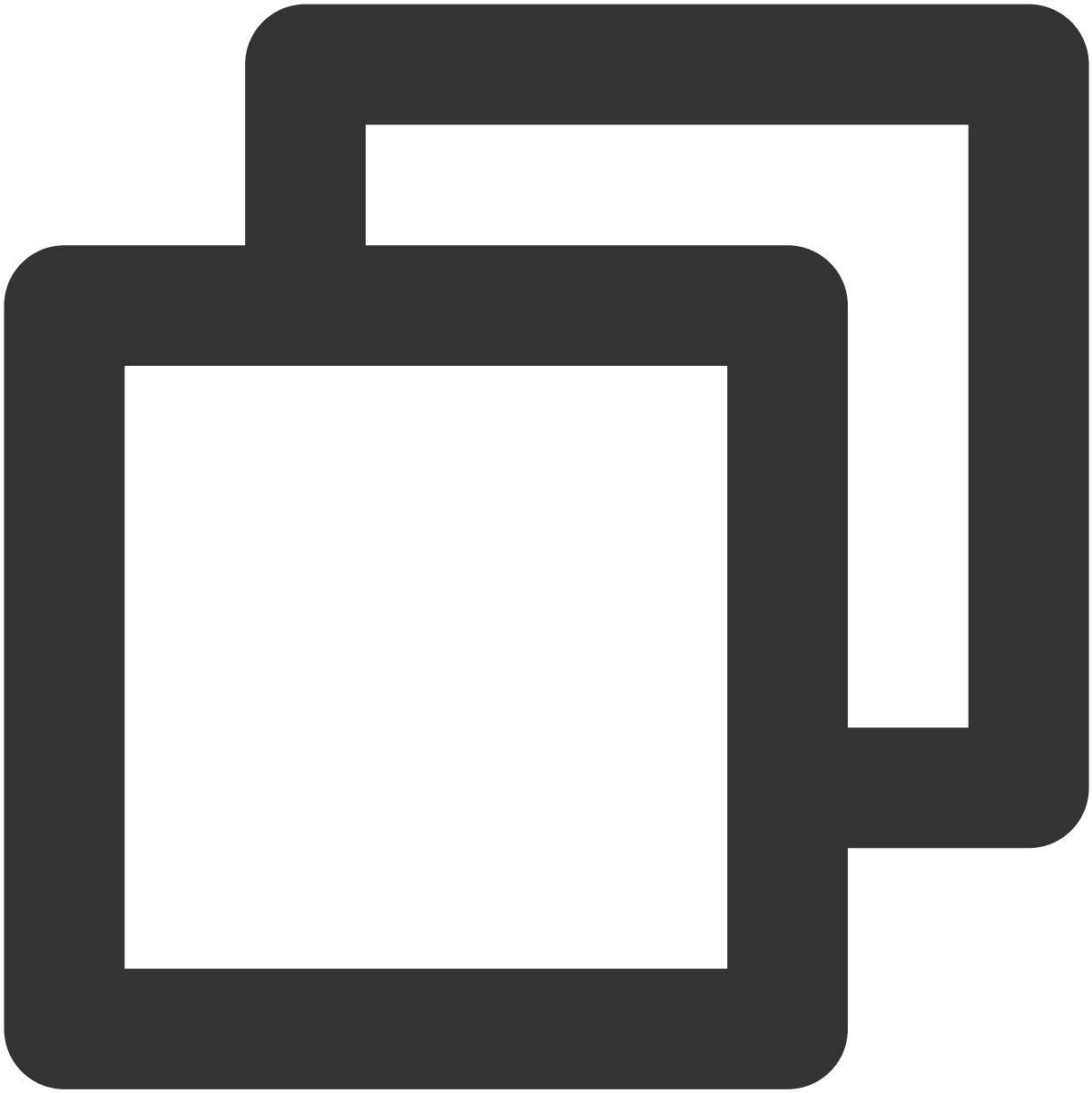
Submitting Webpage Moderation Job

Feature description

This API is used to submit a webpage moderation job.

Method prototype

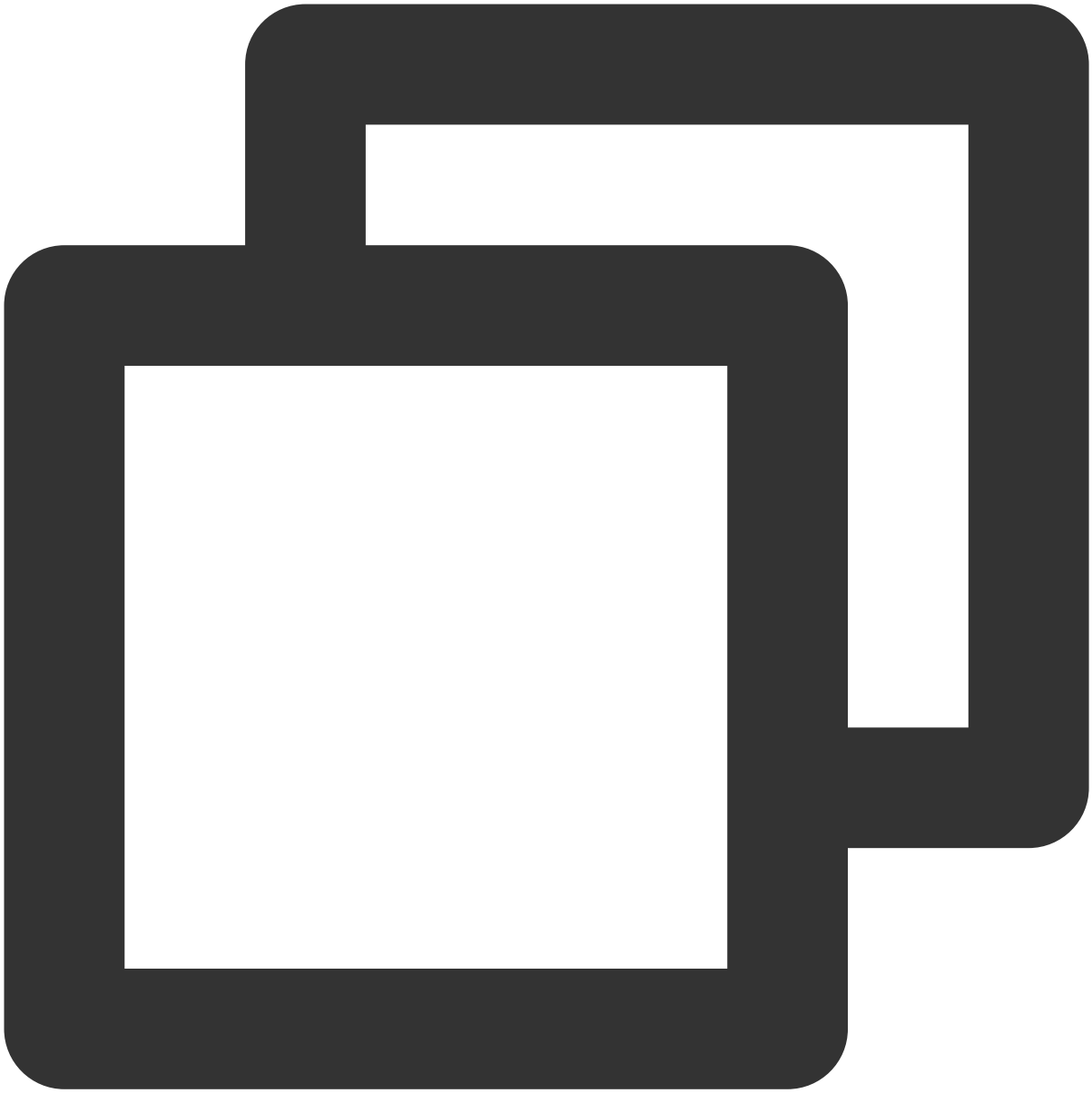
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```
CosResult CosAPI::CreateWebPageAuditingJob(const CreateWebPageAuditingJobReq& req,
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";
std::string url = "http://test.com";

CreateWebPageAuditingJobReq req(bucket_name);
CreateWebPageAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetUrl(url);
req.SetDetectType("Porn,Ads");
```

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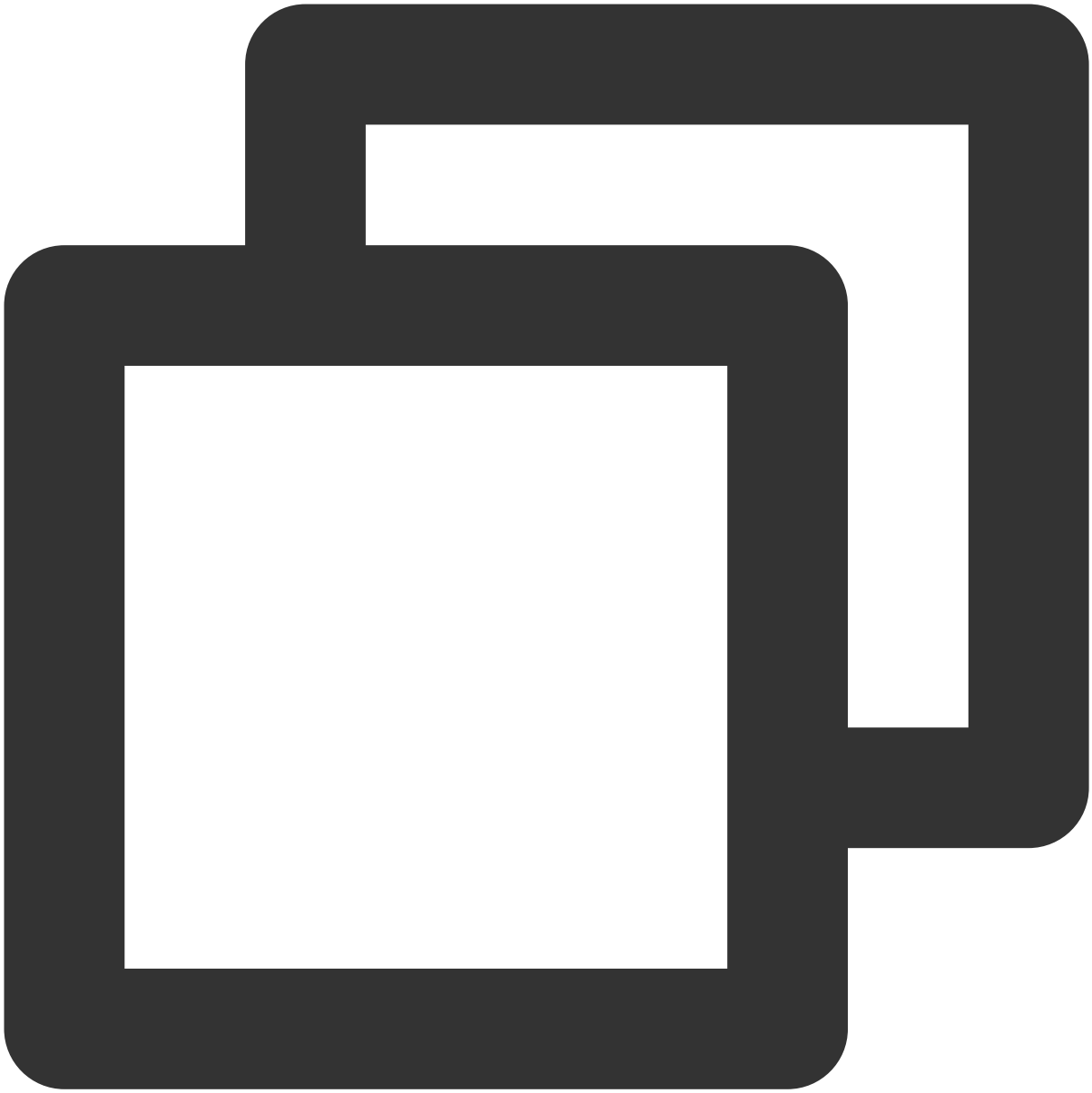
```
// Call the API to get the job response object
CosResult result = cos.CreateWebPageAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is created successfully, you can call the member funct
} else {
    // If the moderation job failed to be created, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`CreateWebPageAuditing` operation request	CreateWebPageAuditingJobReq	Yes
resp	`CreateWebPageAuditing` operation response	CreateWebPageAuditingJobResp	Yes

`CreateWebPageAuditingJobReq` provides the following member functions:

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```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the input video to be moderated
void SetInput(const AuditingInput& input);
// Set moderation configuration rules
void SetConf(const Conf& conf);

// conf
// The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising).
void SetDetectType(const std::string& detect_type);
// Callback address, which must start with `http://` or `https://`.
```

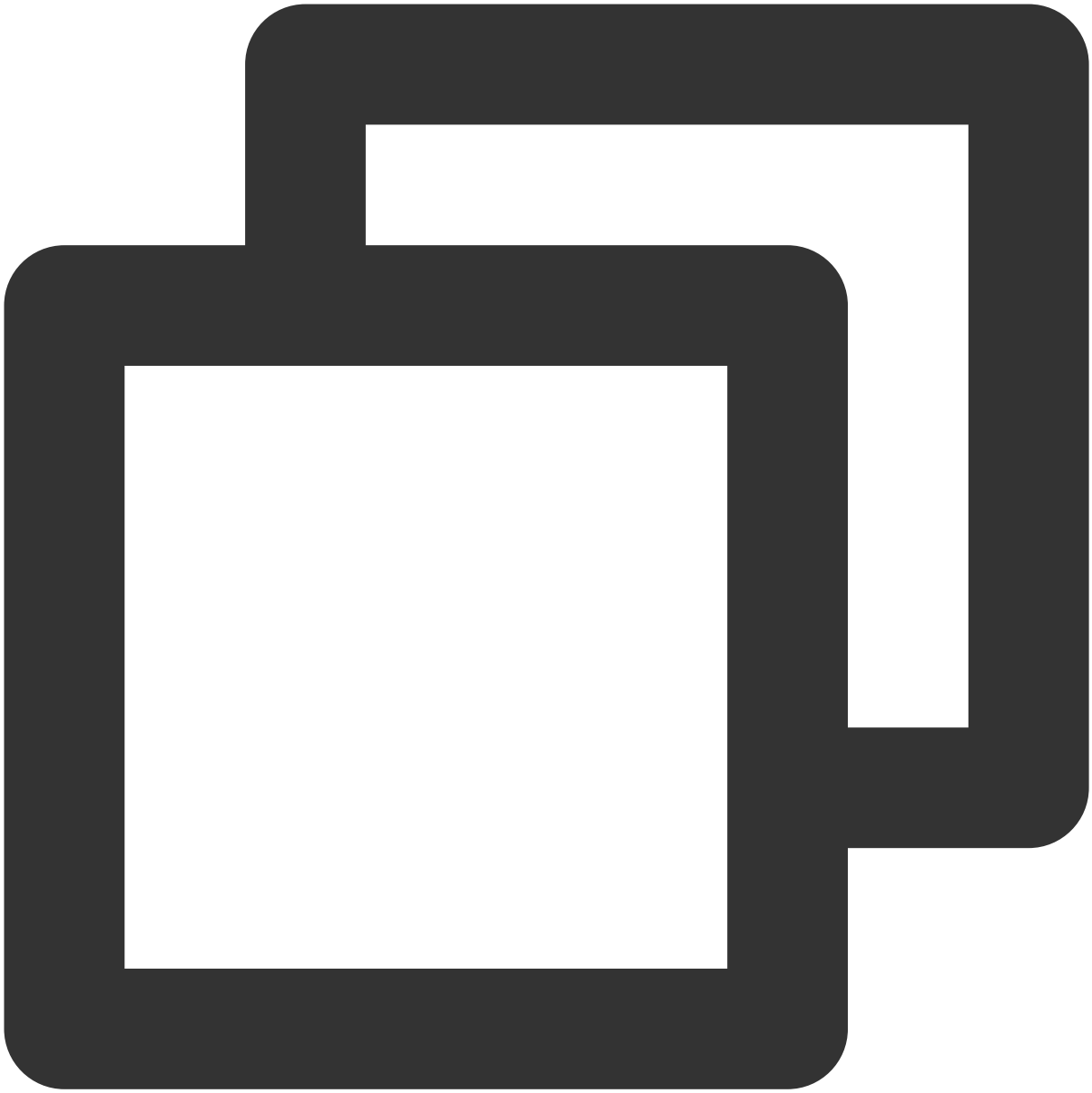
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```
void SetCallBack(const std::string& callback);
// Specify whether to highlight the non-compliant text on the webpage. When the res
void SetReturnHighligthHtml(const bool return_highlight_html);


// input
// Full URL of the webpage, such as `http://www.test.com`.
void SetUrl(const std::string& url);
// This field will return the original content in the moderation result, which can
void SetDataId(const std::string& data_id);
// Business field.
void SetUserInfo(const UserInfo& user_info);
```

`CreateWebPageAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
WebPageAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `WebPageAuditingJobsDetail` structure. For specific response parameters, see Submitting Webpage

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Moderation Job.

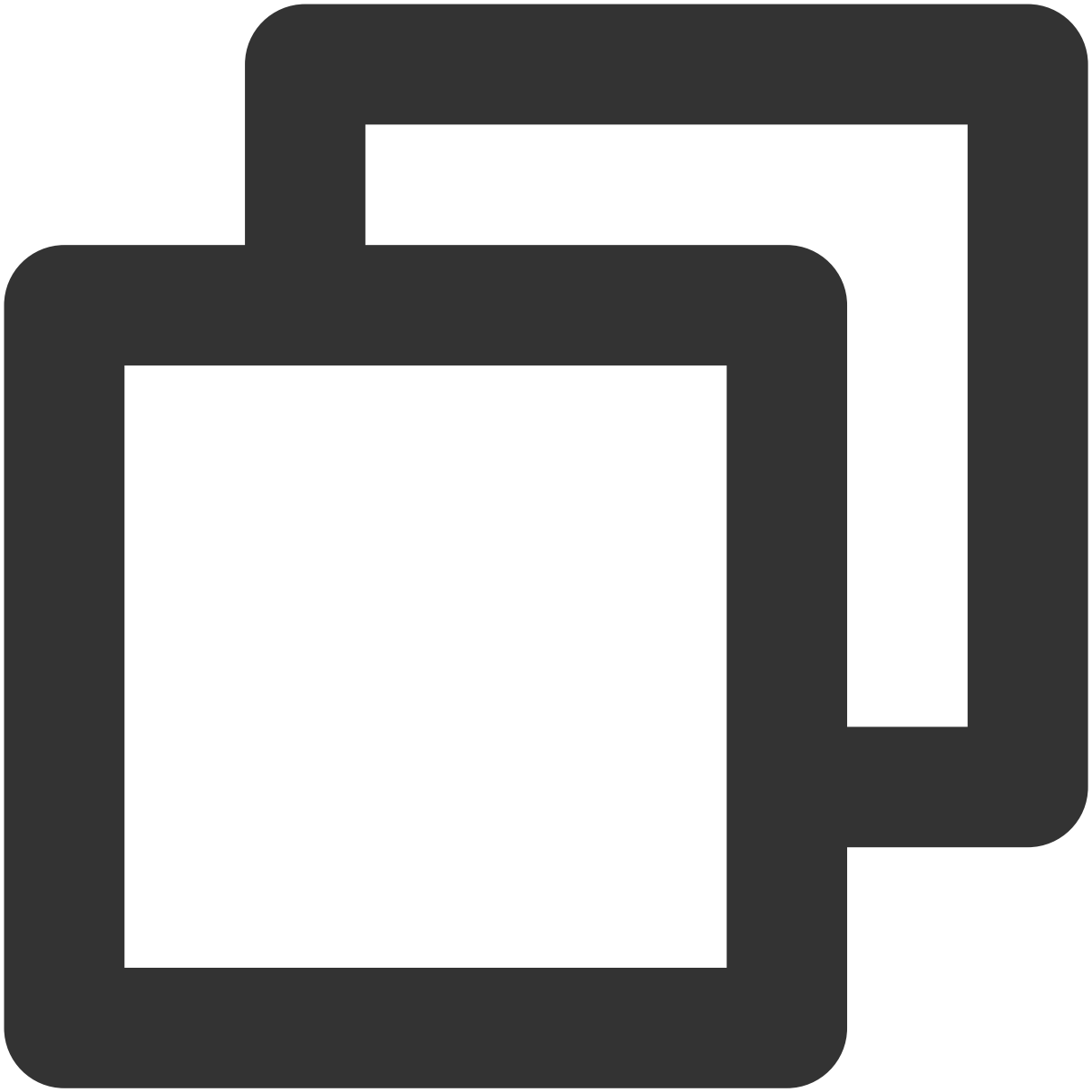
Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

Querying Webpage Moderation Job Result

Feature description

This API is used to query the status and result of a webpage moderation job.

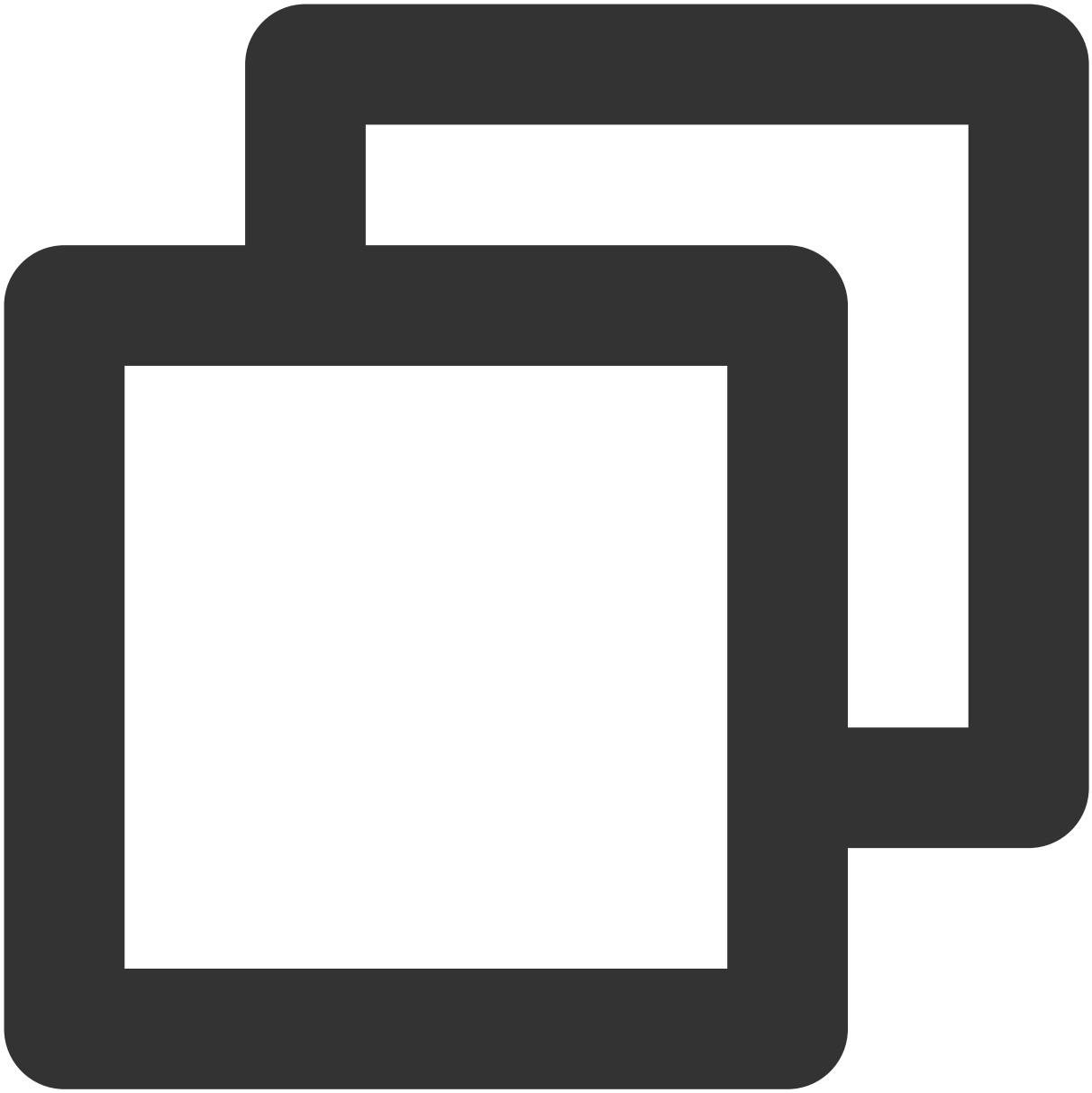
Method prototype



```
CosResult DescribeWebPageAuditingJob(const DescribeWebPageAuditingJobReq& req, Desc
```

Sample request

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```
qcloud_cos::CosConfig config("./config.json");
qcloud_cos::CosAPI cos(config);
std::string bucket_name = "examplebucket-1250000000";

DescribeWebPageAuditingJobReq req(bucket_name);
DescribeWebPageAuditingJobResp resp;

// Add request parameters as detailed in the API documentation
req.SetJobId("aab1ca9fc8a3ed11ea834c525400863904");

// Call the API to get the job response object
```

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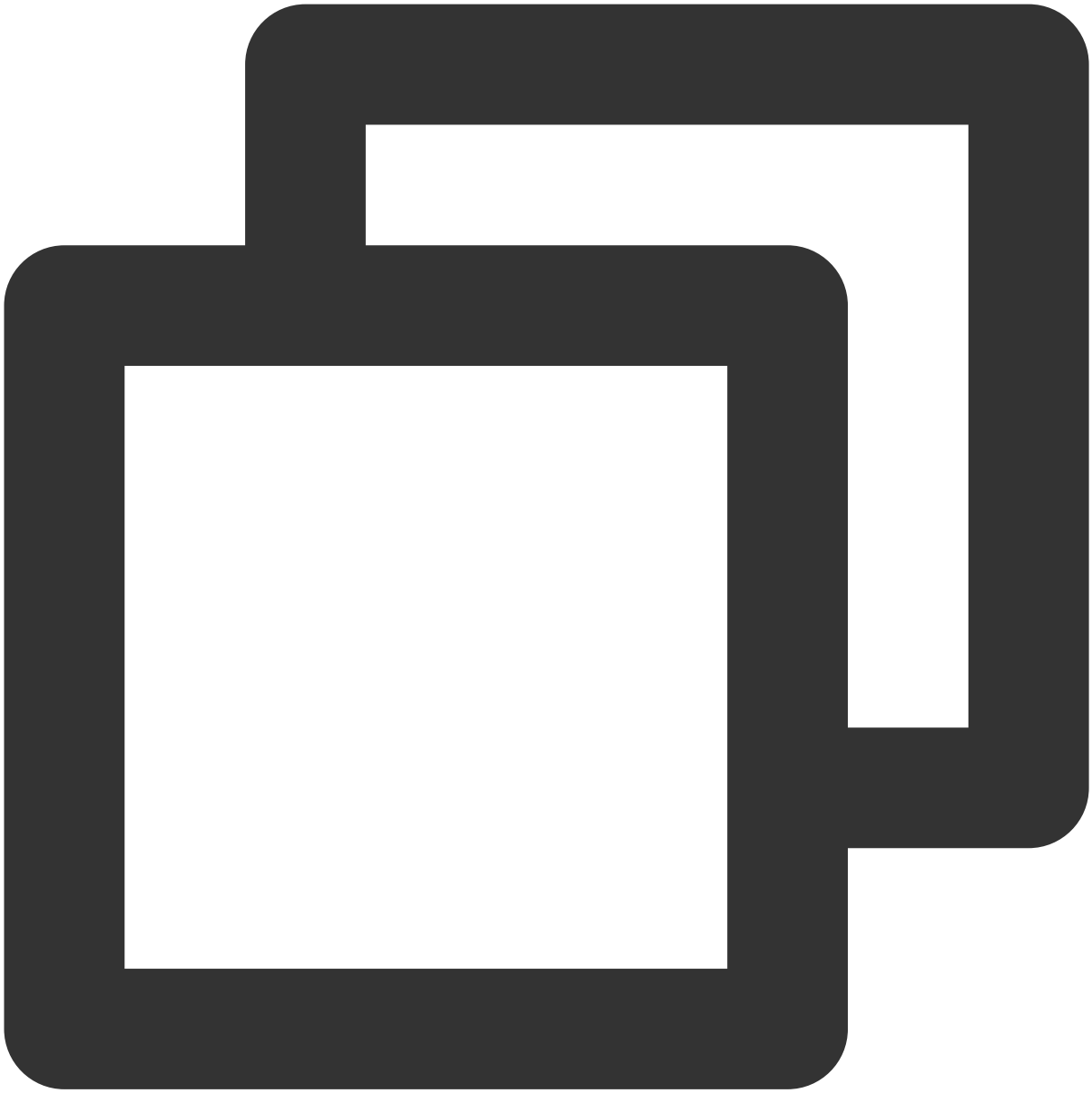
```
CosResult result = cos.DescribeWebPageAuditingJob(req, &resp);
if (result.IsSucc()) {
    // If the moderation job is queried successfully, you can call the member funct
} else {
    // If the moderation job failed to be queried, you can call the member function
}
```

Parameter description

Parameter	Description	Type	Required
req	`DescribeWebPageAuditingJob` operation request	DescribeWebPageAuditingJobReq	Yes
resp	`DescribeWebPageAuditingJob` operation response	DescribeWebPageAuditingJobResp	Yes

`DescribeWebPageAuditingJobReq` provides the following member functions:

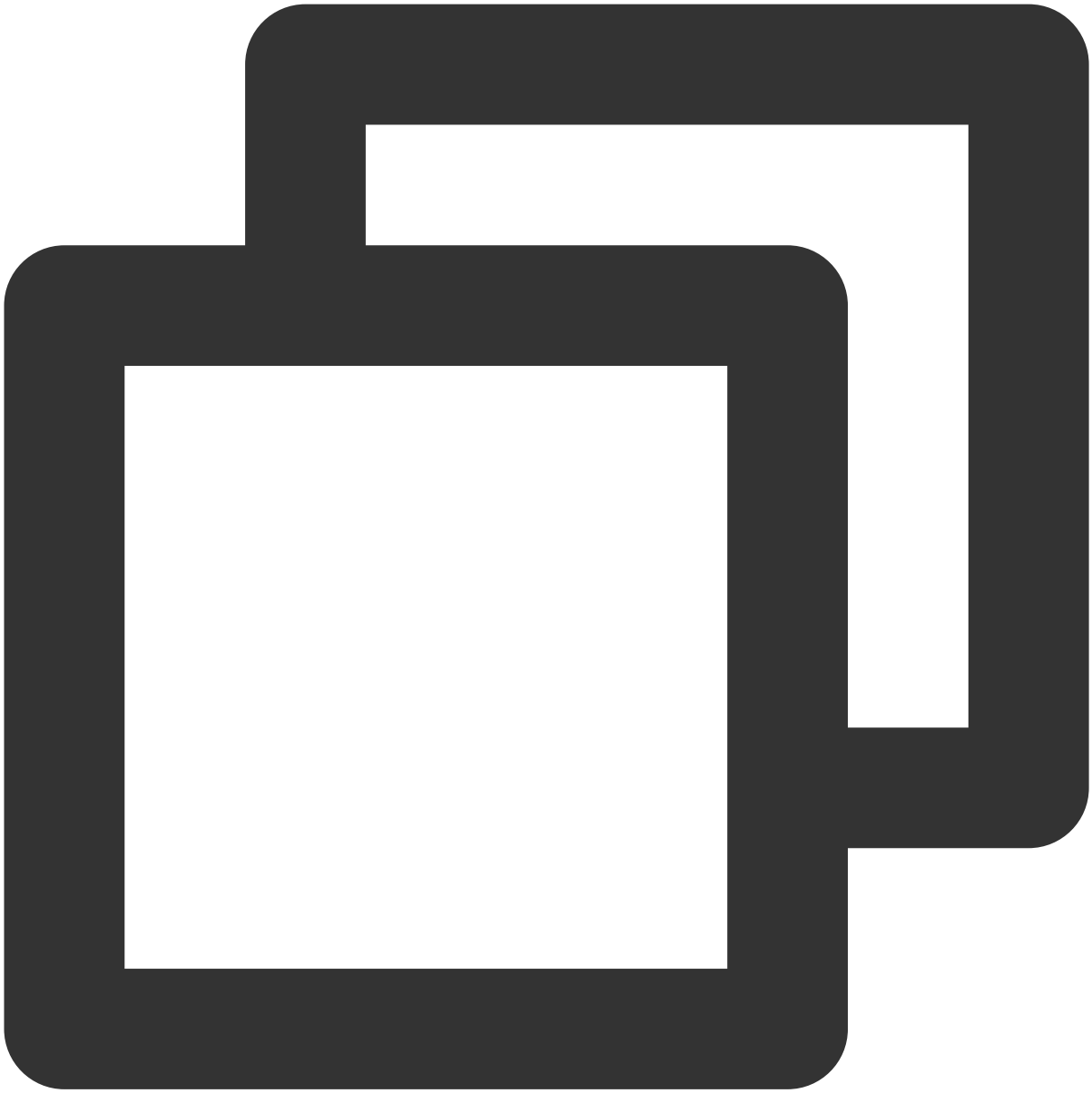
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```
// Set the bucket for performing the operation
void SetBucketName(const std::string& bucket_name);
// Set the ID of the moderation job to be queried
void SetJobId(const std::string& job_id);
```

`DescribeWebPageAuditingJobResp` provides the following member functions:

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```
// Get the job details returned by the API request
WebPageAuditingJobsDetail GetJobsDetail();
// Get the `RequestId` returned by the API
std::string GetRequestId();
```

Response description

Success: The moderation job result in the XML content returned by the API will be parsed into the `WebPageAuditingJobsDetail` structure. For specific response parameters, see Querying Webpage

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Moderation Job Result.

Failure: If an error (for example, the bucket does not exist) occurs, the error message will be parsed into the `CosResult` structure. For more information, see Troubleshooting.

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.NET(C#) SDK
Getting Started

Last updated：2024-02-29 16:52:32

Resources

Download the XML .NET SDK source code here.
Download XML .NET SDK here.
Find the complete code here.
For the SDK changelog, see Changelog.
For SDK FAQs, see .NET (C#) SDK FAQs.
Note:
If you encounter errors such as non-existent functions or methods when using the SDK, you can update the SDK to the latest version and try again.

Step 1. Integrate the SDK

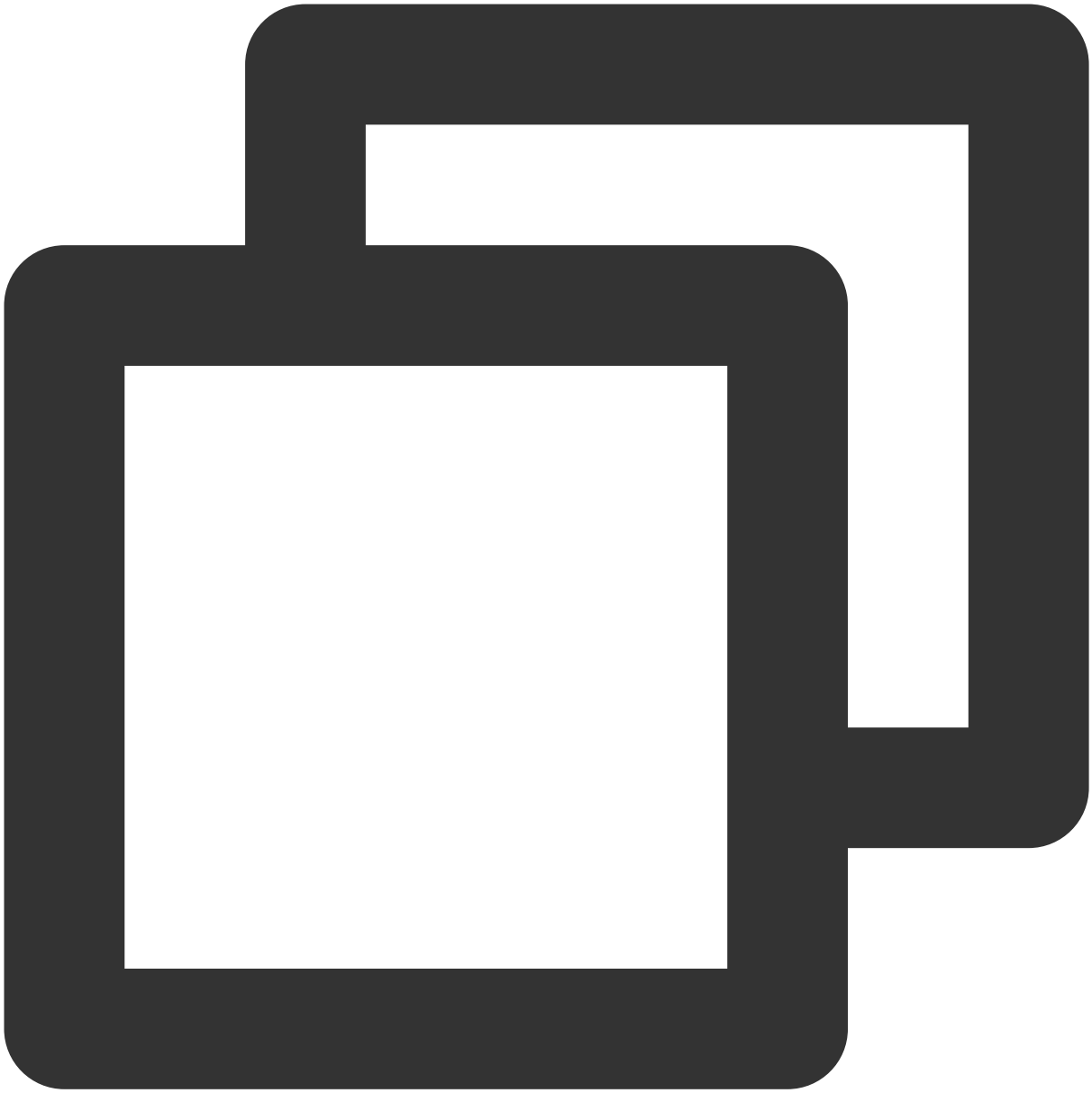
Environmental dependencies

The .NET SDK is developed based on .NET Standard 2.0.
Windows: Install .NET Core 2.0 or above or .NET Framework 2.0 or above.
For Linux/Mac users: Install .NET Core 2.0 or above.

Installing the SDK

You can install the SDK using NuGet by adding the following to the `csproj` file in your project:

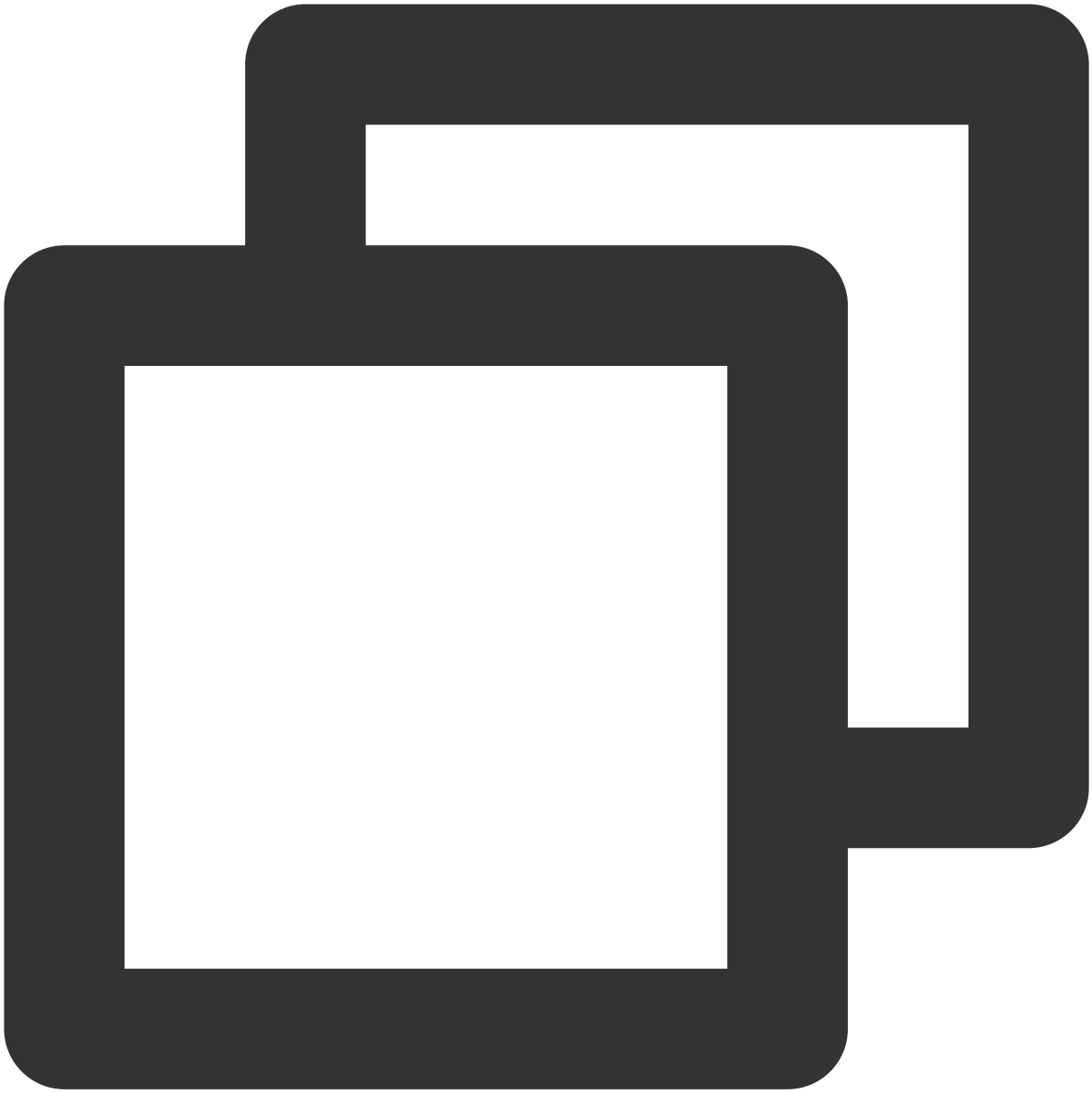
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```
<PackageReference Include="Tencent.QCloud.Cos.Sdk" Version="5.4.*" />
```

If .NET CLI is used instead, run the following command:

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```
dotnet add package Tencent.QCloud.Cos.Sdk
```

If you develop for the target framework .Net Framework 4.0 or below, please download Releases and use `COSXML-Compatible.dll` .

In your Visual Studio project, click **Project** > **Add Reference** > **Browse** > **COSXML-Compatible.dll** to add the .NET(C#) SDK.

Note:

The compatible package does not support features such as advanced upload and download. For details, see Backward Compatibility.

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Step 2. Initialize COS Services

Caution:

We recommend you use a temporary key as instructed in Generating and Using Temporary Keys to call the SDK for security purposes. When you apply for a temporary key, follow the Notes on Principle of Least Privilege to avoid leaking resources besides your buckets and objects.

If you must use a permanent key, we recommend you follow the Notes on Principle of Least Privilege to limit the scope of permission on the permanent key.

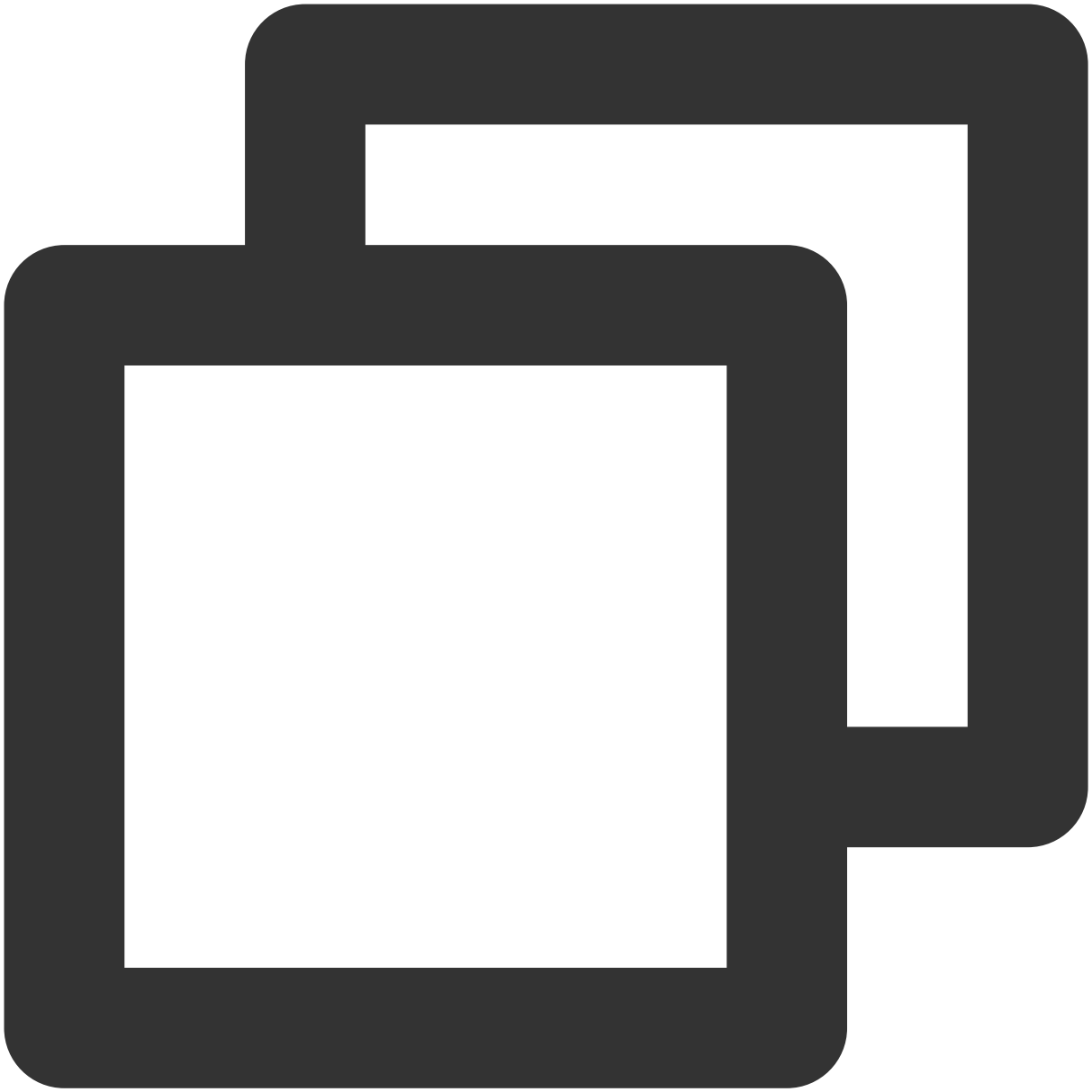
The section below describes how to perform basic COS operations with the .NET SDK, such as initializing a client, creating a bucket, querying a bucket list, uploading an object, querying an object list, downloading an object, and deleting an object.

Note:

For the definition of terms such as SecretId, SecretKey, and Bucket, see COS Glossary.

Namespaces commonly used in this SDK include:

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```
using COSXML;
using COSXML.Auth;
using COSXML.Model.Object;
using COSXML.Model.Bucket;
using COSXML.CosException;
```

Before making any COS requests, always instantiate the following 3 objects: `CosXmlConfig` , `QCloudCredentialProvider` , and `CosXmlServer` .

`CosXmlConfig` provides an API to configure SDK.

`QCloudCredentialProvider` provides an API to set the key information.

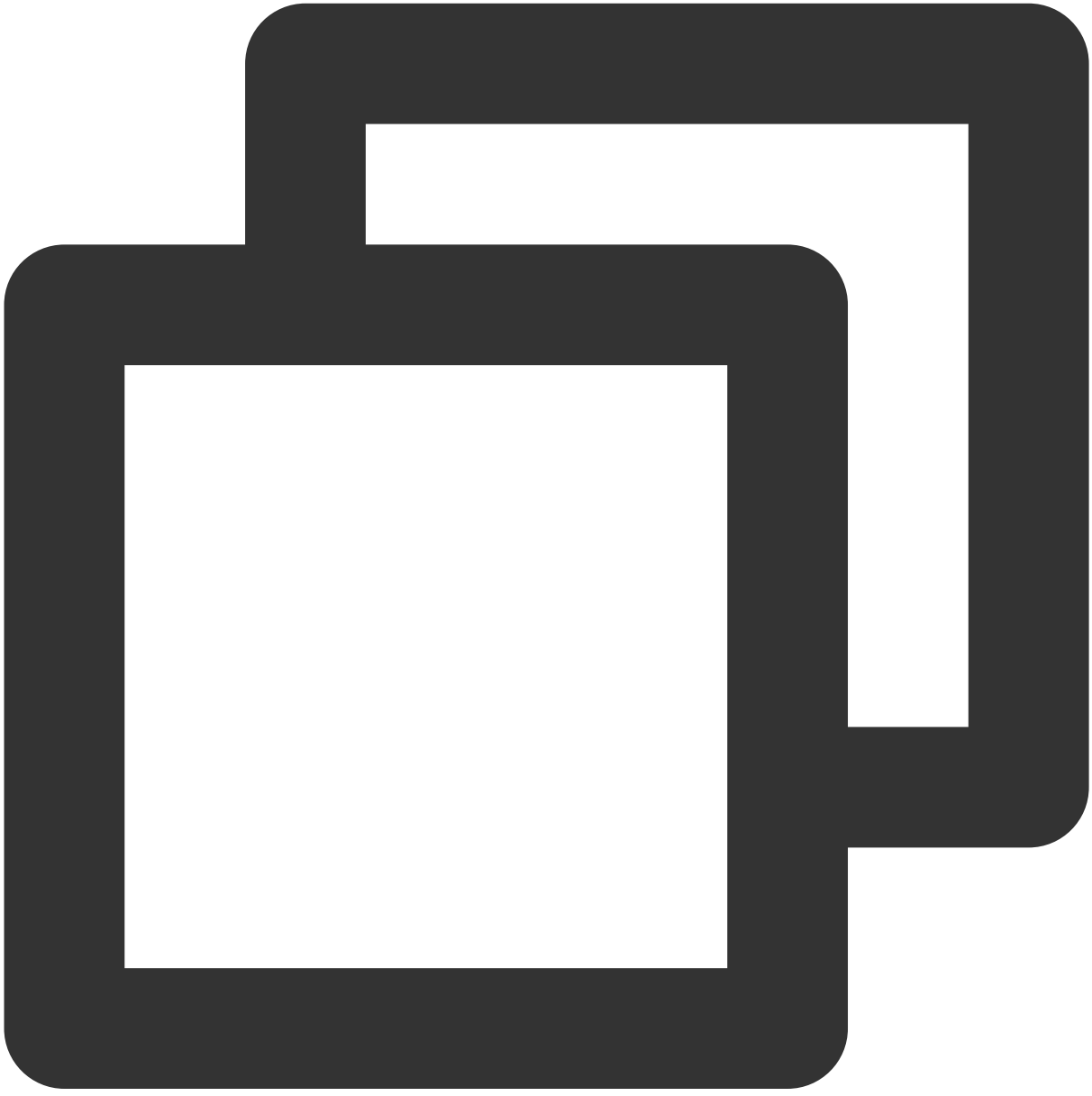
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`CosXmlServer` provides APIs to perform operations on COS API services.

Note:

The initialization sample below uses a temporary key. For more information about how to generate and use a temporary key, see Generating and Using Temporary Keys.

1. Initialize a COS service



```
// Initialize CosXmlConfig.
string appid = "1250000000";// Set the APPID of your Tencent Cloud account.
string region = "COS_REGION"; // Set the default bucket region.
```

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```
CosXmlConfig config = new CosXmlConfig.Builder()
  .IsHttps(true)  // Set HTTPS as default request method.
  .SetRegion(region)  // Set the default bucket region.
  .SetDebugLog(true)  // Display logs.
  .Build();  // Create a CosXmlConfig object.
```

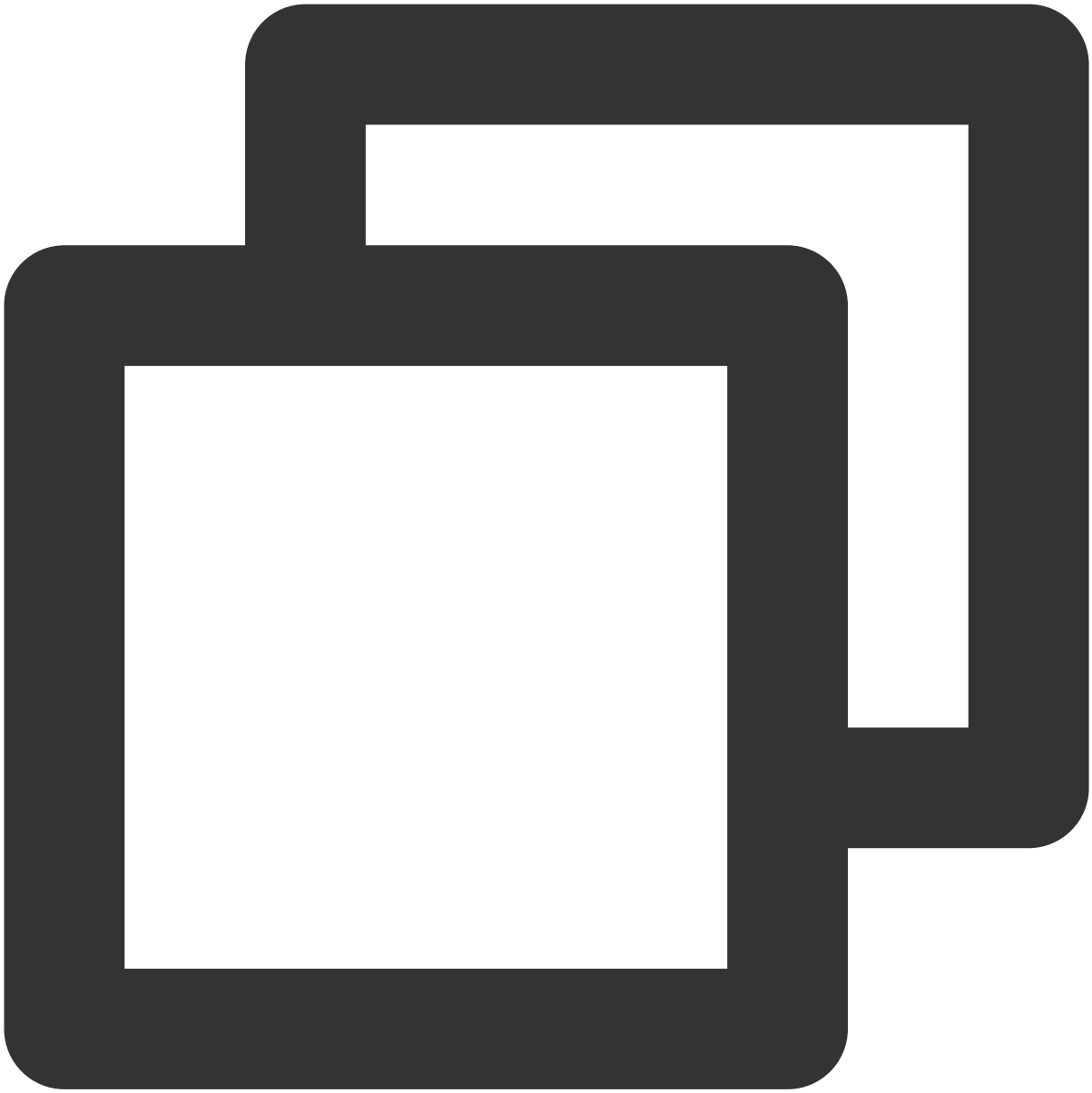
2. Provide access credentials

The SDK supports three types of access credentials: updated temporary keys, unchanging temporary keys, and permanent keys.

Type 1: updated temporary key

Since temporary keys are short term, you can obtain new ones using the following method:

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```
public class CustomQCloudCredentialProvider : DefaultSessionQCloudCredentialProvide
{

  // Even if you do not already have a current temporary key, you can still use thi
  public CustomQCloudCredentialProvider(): base(null, null, 0L, null) {
    ;
  }

  public override void Refresh()
  {
    //... First, request a temporary key from Tencent Cloud.
```

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```
    string tmpSecretId = "SECRET_ID"; // SecretId of a temporary key. For more info
    string tmpSecretKey = "SECRET_KEY"; // SecretKey of a temporary key. For more i
    string tmpToken = "COS_TOKEN"; // Token of a temporary key. For more informatio
    long tmpStartTime = 1546860702;// Start time in seconds of the temporary key's
    long tmpExpireTime = 1546862502;// End time in seconds of the temporary key's v
    // Call the API to update the key
    SetQCloudCredential(tmpSecretId, tmpSecretKey,
      String.Format("{0};{1}", tmpStartTime, tmpExpiredTime), tmpToken);
  }
}

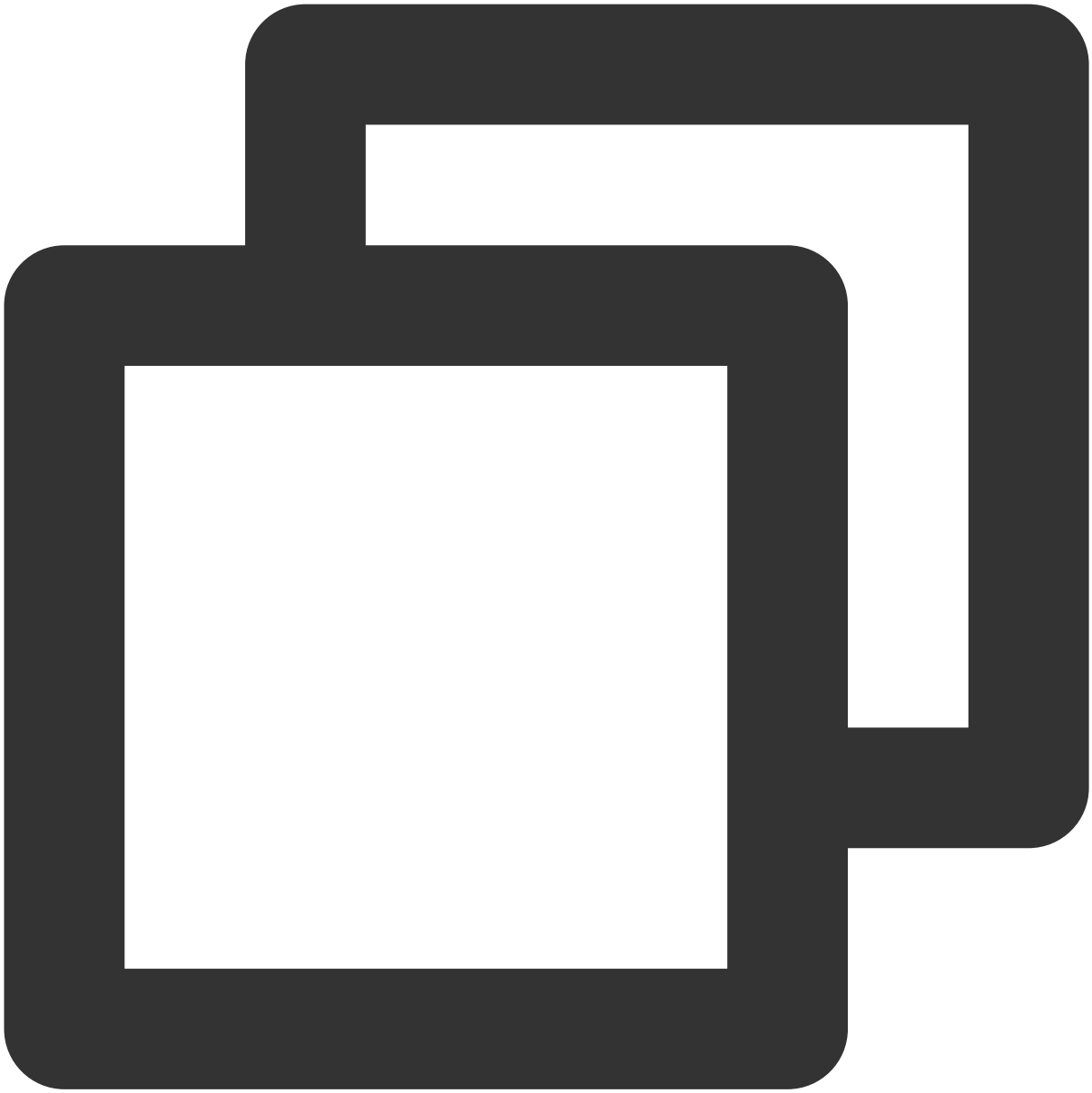
QCloudCredentialProvider cosCredentialProvider = new CustomQCloudCredentialProvider
```

Type 2: unchanging temporary key (not recommended)

Caution:

This method is not recommended as a request may fail if the temporary key has expired at the time of request.

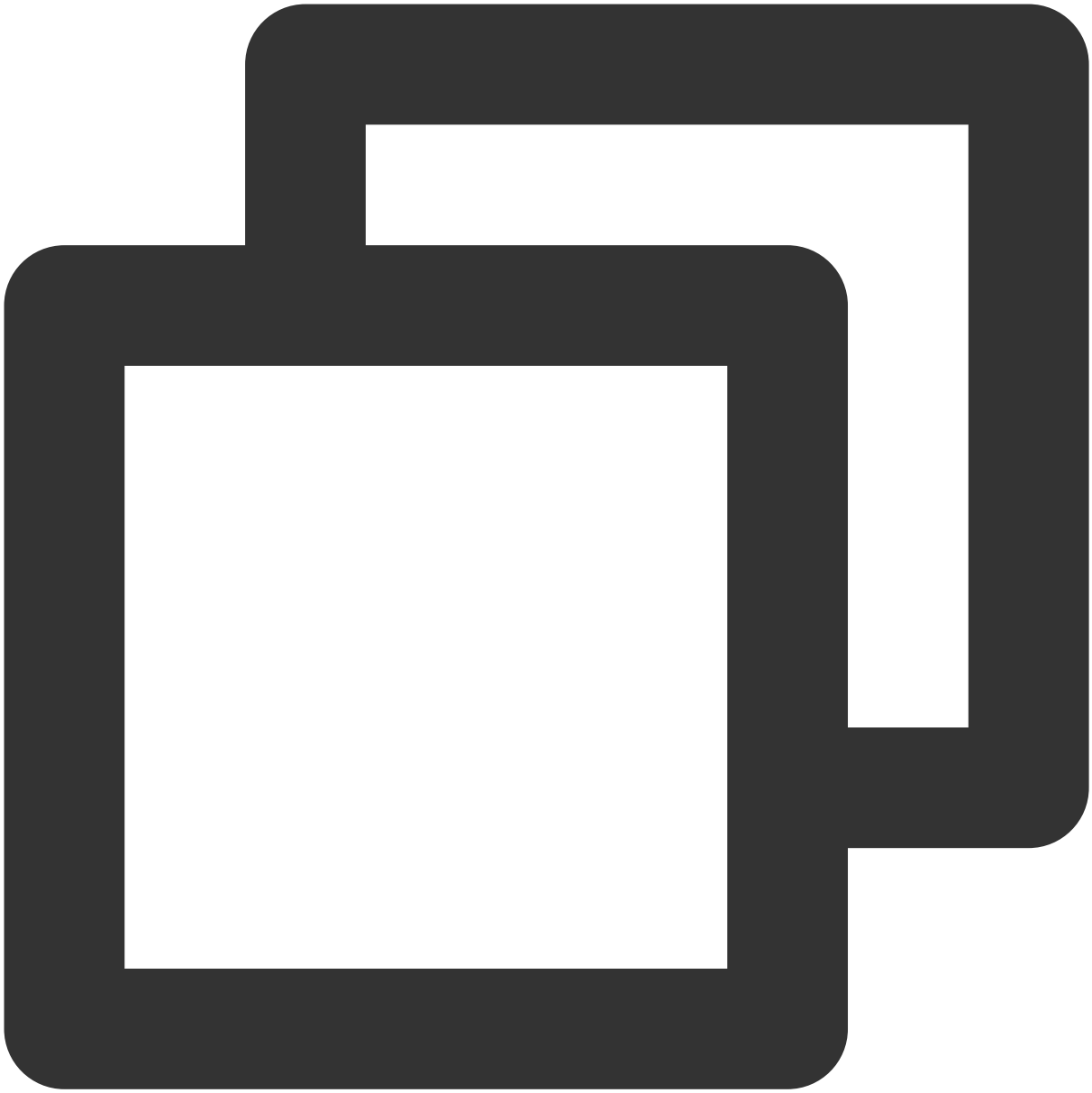
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```
string tmpSecretId = "SECRET_ID"; // “SecretId of the temporary key”;
string tmpSecretKey = "SECRET_KEY"; // “SecretKey of the temporary key”;
string tmpToken = "COS_TOKEN"; // “Token of the temporary key”;
long tmpExpireTime = 1546862502;// End time in seconds of the temporary key’s valid
QCloudCredentialProvider cosCredentialProvider = new DefaultSessionQCloudCredential
  tmpSecretId, tmpSecretKey, tmpExpireTime, tmpToken);
```

Type 3: permanent key (not recommended)

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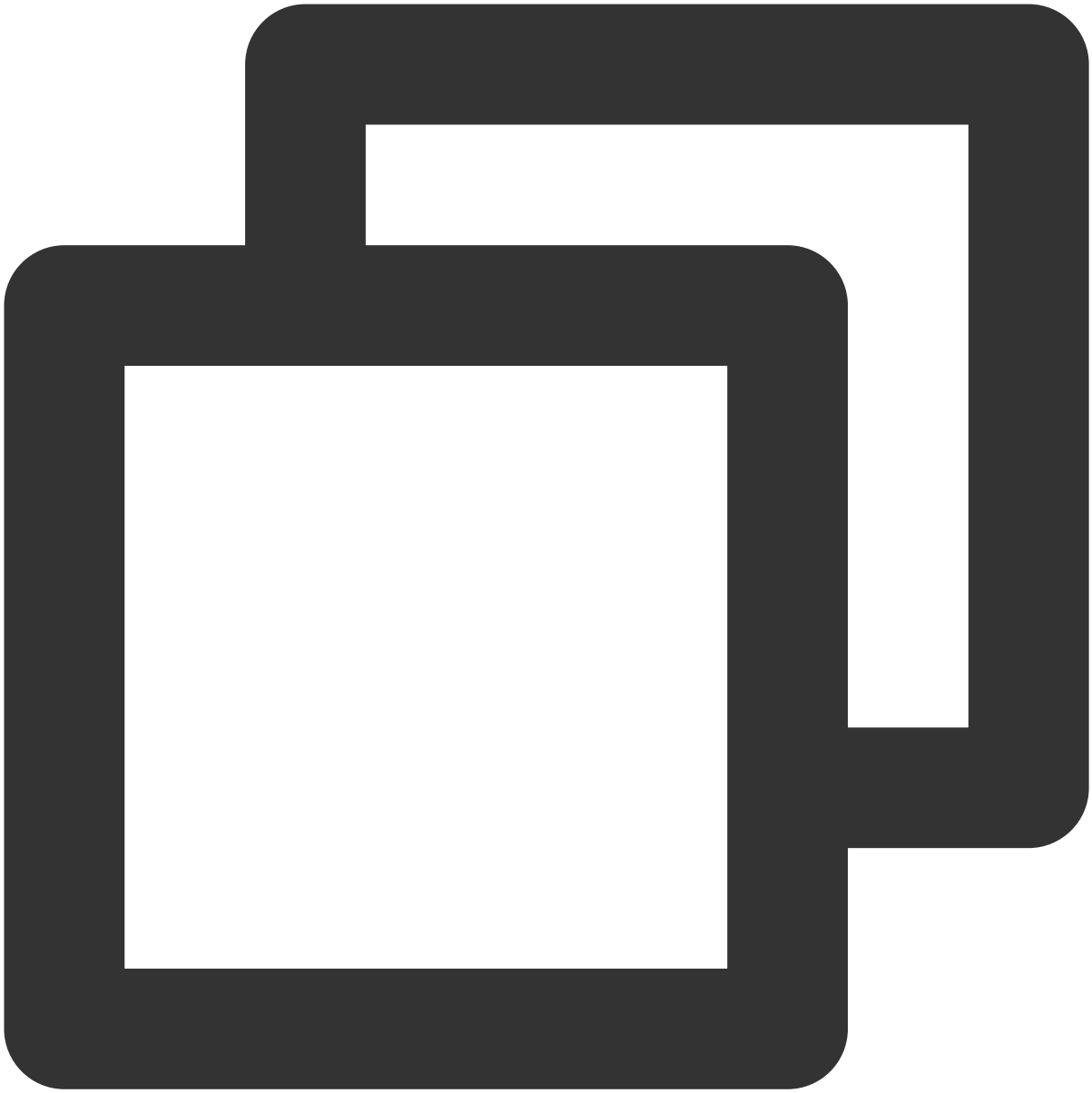
```
string secretId = Environment.GetEnvironmentVariable("SECRET_ID"); // User `SecretI
string secretKey = Environment.GetEnvironmentVariable("SECRET_KEY"); // User `Secre
long durationSecond = 600;          // Validity period of each request signature in
QCloudCredentialProvider cosCredentialProvider = new DefaultQCloudCredentialProvide
  secretId, secretKey, durationSecond);
```

3. Initialize CosXmlServer

Use `CosXmlConfig` and `QCloudCredentialProvider` to initialize the `CosXmlServer` service class.

We recommend you use the service class as a **singleton** in your project.

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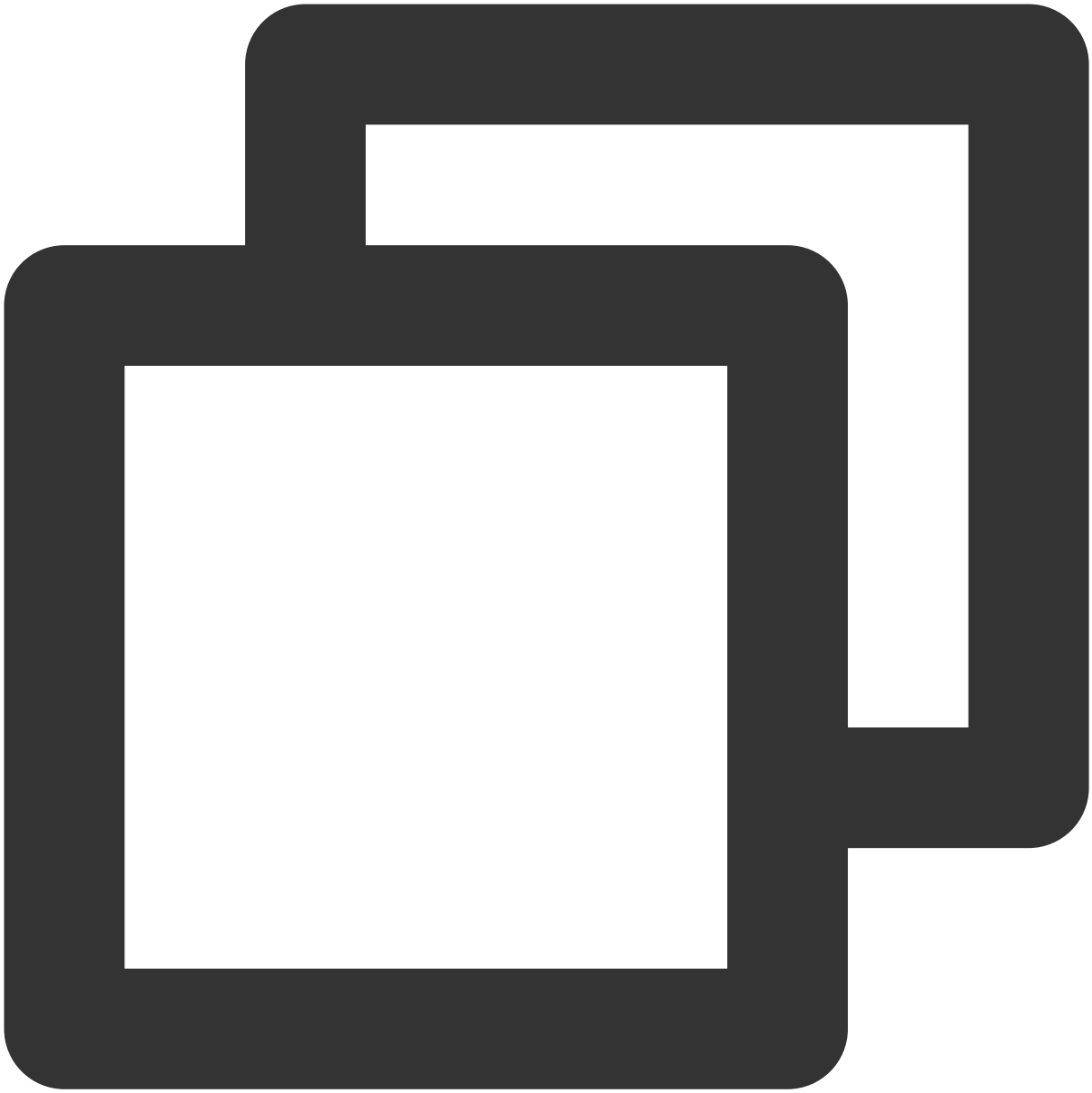


```
CosXml cosXml = new CosXmlServer(config, cosCredentialProvider);
```

Step 3. Access COS

Creating a bucket

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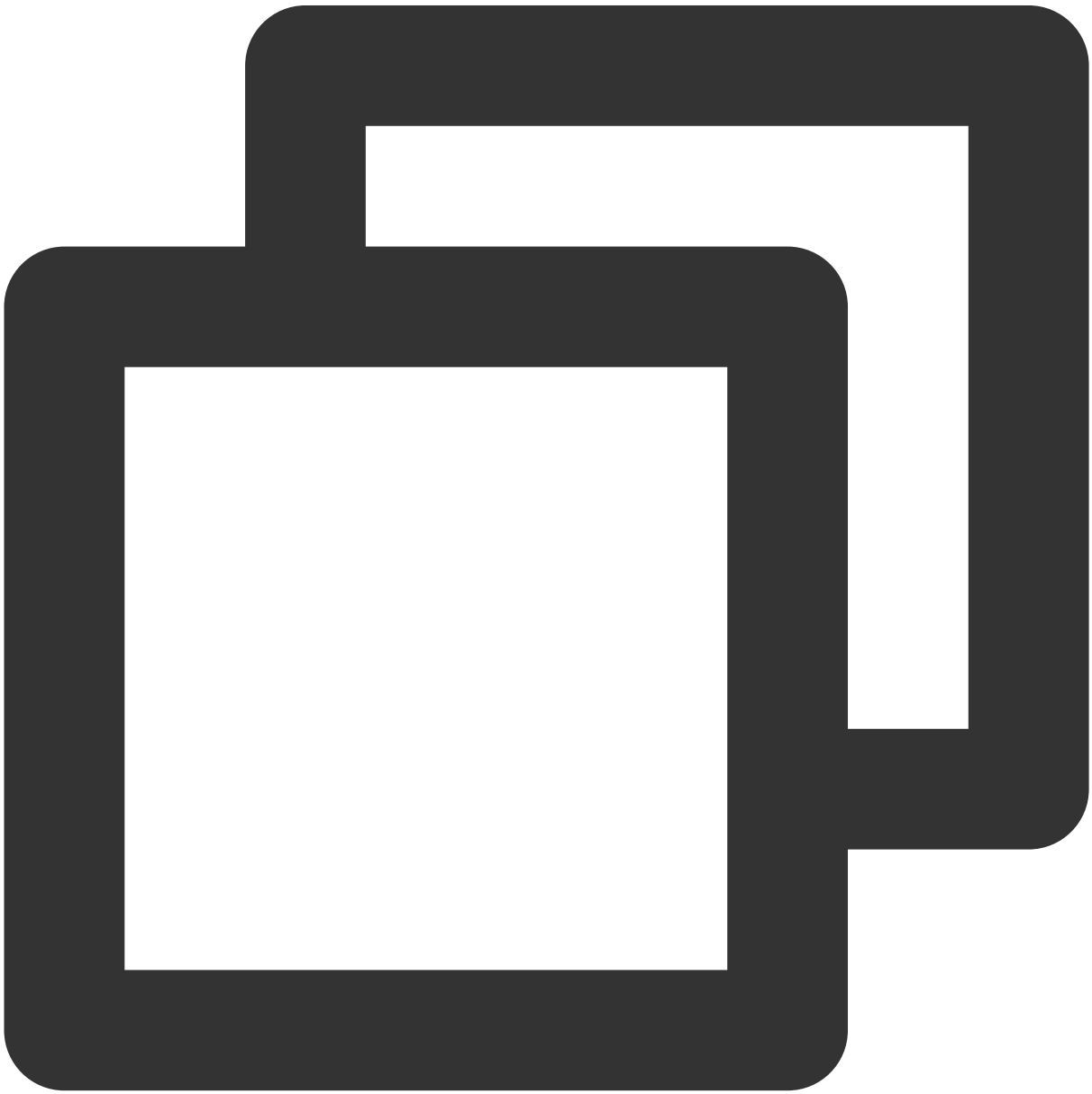


```
try
{
  String bucket = "examplebucket-1250000000"; // Format: BucketName-APPID
  PutBucketRequest request = new PutBucketRequest(bucket);
  // Execute the request
  PutBucketResult result = cosXml.PutBucket(request);
  // Request succeeded
  Console.WriteLine(result.GetResultInfo());
}
catch (COSXML.CosException.CosClientException clientEx)
{
```

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```
    // Request failed
    Console.WriteLine("CosClientException: " + clientEx);
}
catch (COSXML.CosException.CosServerException serverEx)
{
    // Request failed
    Console.WriteLine("CosServerException: " + serverEx.GetInfo());
}
```

Querying the bucket list

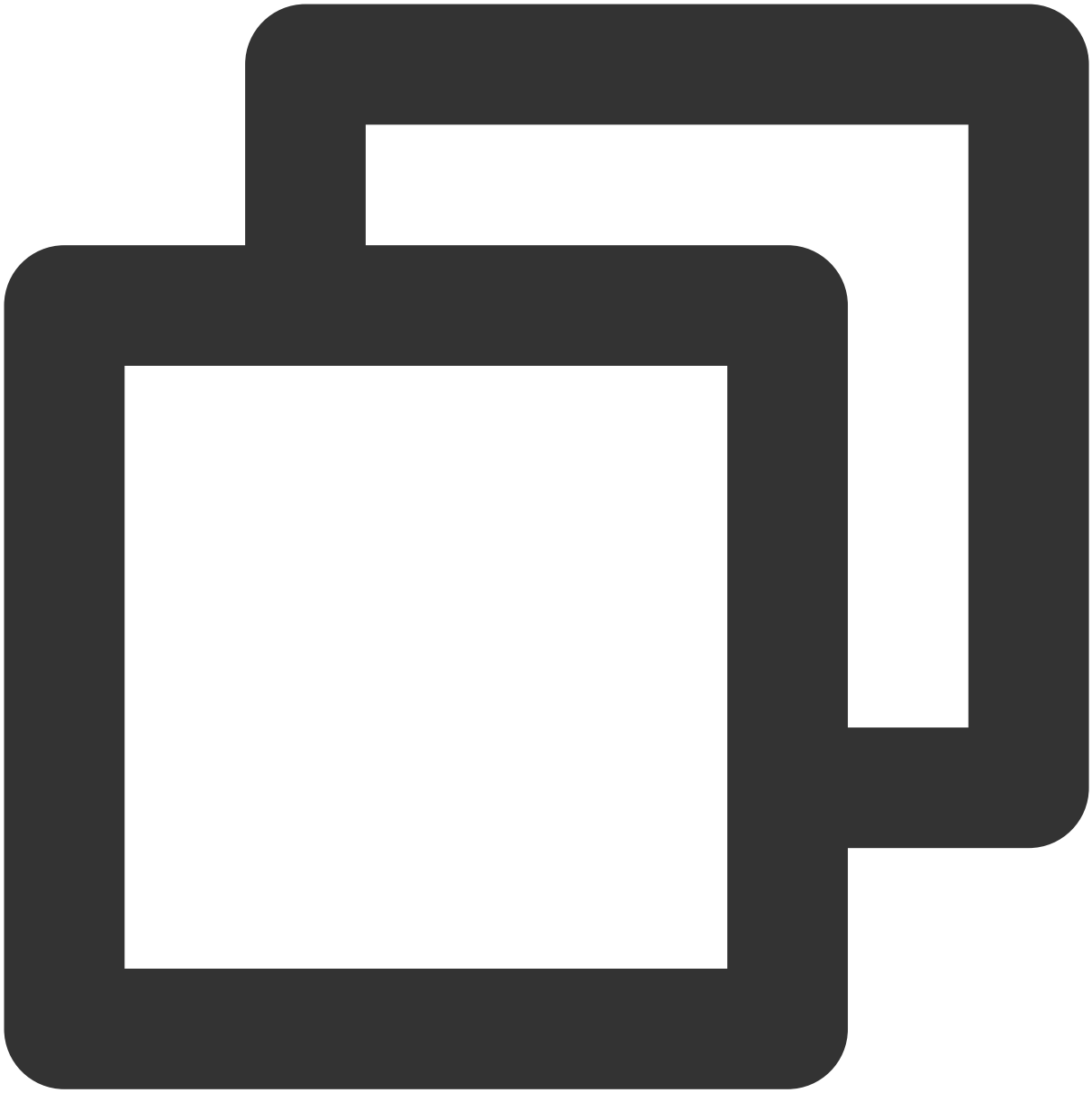


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```
try
{
  GetServiceRequest request = new GetServiceRequest();
  // Execute the request
  GetServiceResult result = cosXml.GetService(request);
  // Get the list of all buckets.
  List<ListAllMyBuckets.Bucket> allBuckets = result.listAllMyBuckets.buckets;
}
catch (COSXML.CosException.CosClientException clientEx)
{
  // Request failed
  Console.WriteLine("CosClientException: " + clientEx);
}
catch (COSXML.CosException.CosServerException serverEx)
{
  // Request failed
  Console.WriteLine("CosServerException: " + serverEx.GetInfo());
}
```

Uploading an object

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```
// Initialize TransferConfig
TransferConfig transferConfig = new TransferConfig();

// Initialize TransferManager
TransferManager transferManager = new TransferManager(cosXml, transferConfig);

String bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketN
String cosPath = "exampleobject"; // The location identifier of the object in the b
String srcPath = @"temp-source-file";// Absolute path to the local file

// Upload an object
```

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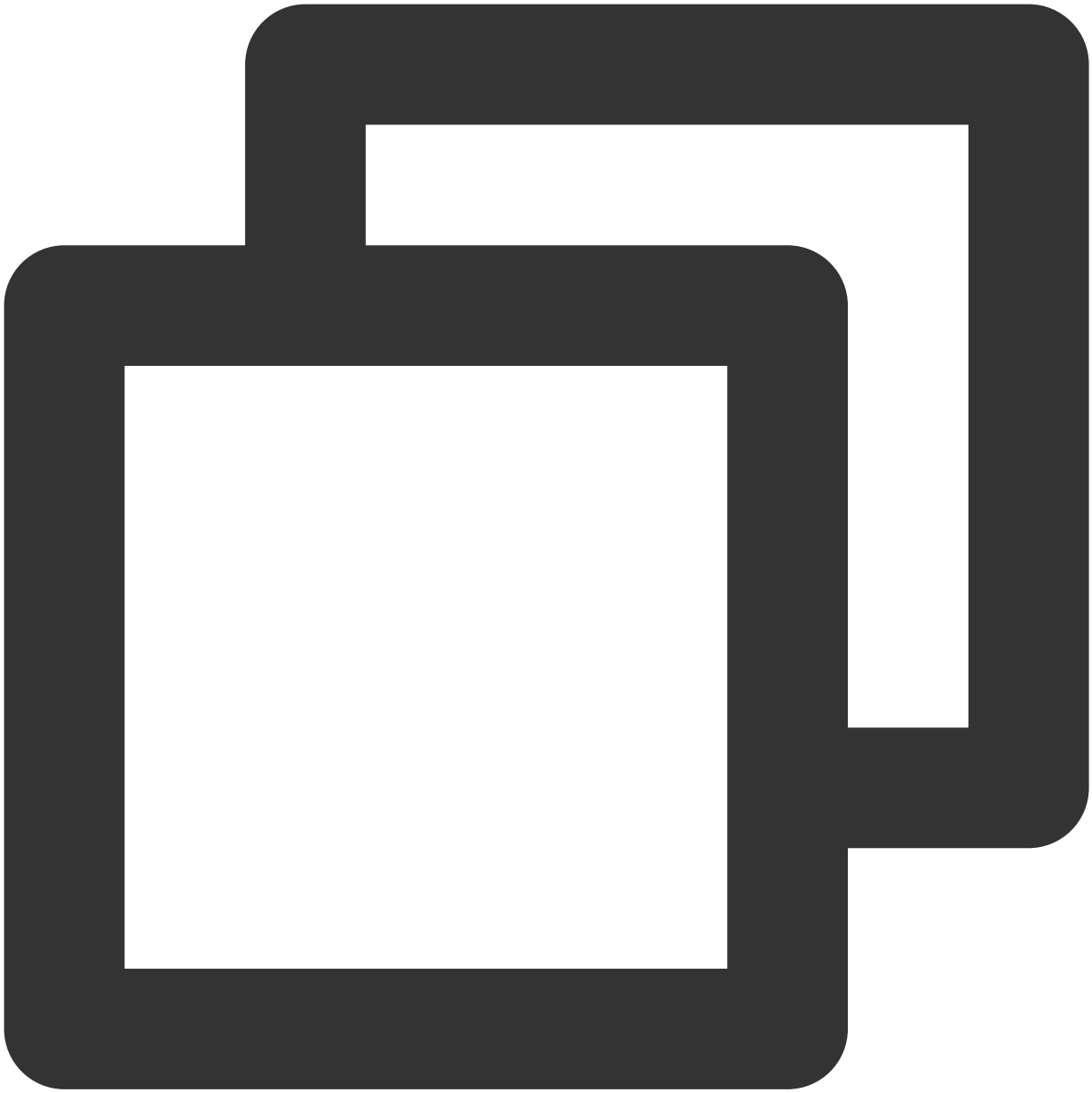
```
COSXMLUploadTask uploadTask = new COSXMLUploadTask(bucket, cosPath);
uploadTask.SetSrcPath(srcPath);

uploadTask.progressCallback = delegate (long completed, long total)
{
    Console.WriteLine(String.Format("progress = {0:##.##}%", completed * 100.0 / to
};

try {
  COSXML.Transfer.COSXMLUploadTask.UploadTaskResult result = await
    transferManager.UploadAsync(uploadTask);
  Console.WriteLine(result.GetResultInfo());
  string eTag = result.eTag;
} catch (Exception e){
    Console.WriteLine("CosException: " + e);
}
```

Querying objects

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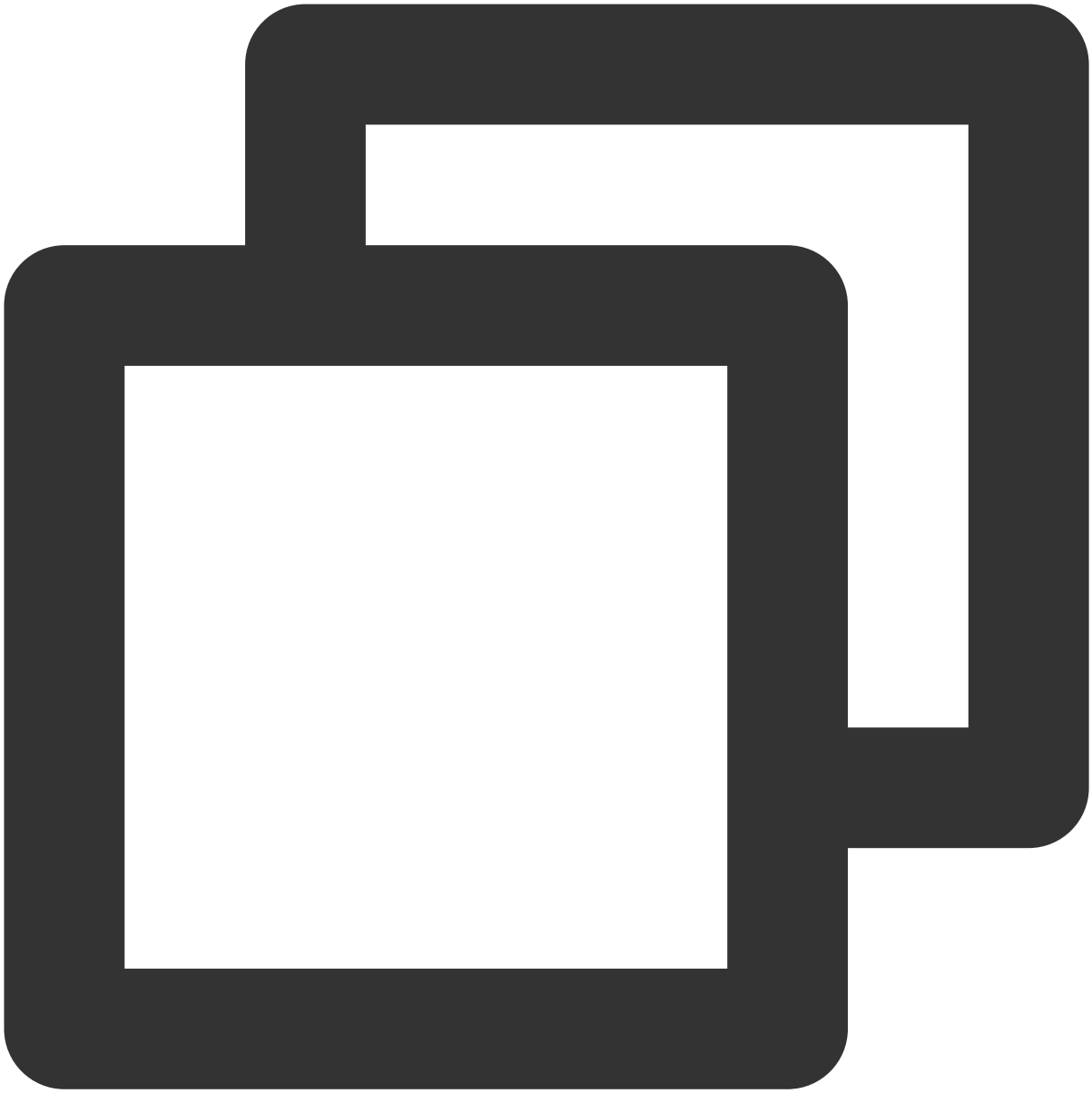
```
try
{
  String bucket = "examplebucket-1250000000"; // Format: BucketName-APPID
  GetBucketRequest request = new GetBucketRequest(bucket);
  // Execute the request
  GetBucketResult result = cosXml.GetBucket(request);
  // Bucket information
  ListBucket info = result.listBucket;
  if (info.isTruncated) {
    // The data is truncated, and the next marker of the data is recorded.
    this.nextMarker = info.nextMarker;
```

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```
    }
  }
  catch (COSXML.CosException.CosClientException clientEx)
  {
    // Request failed
    Console.WriteLine("CosClientException: " + clientEx);
  }
  catch (COSXML.CosException.CosServerException serverEx)
  {
    // Request failed
    Console.WriteLine("CosServerException: " + serverEx.GetInfo());
  }
```

Downloading an object

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```
// Initialize TransferConfig
TransferConfig transferConfig = new TransferConfig();

// Initialize TransferManager
TransferManager transferManager = new TransferManager(cosXml, transferConfig);

String bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketN
String cosPath = "exampleobject"; // The location identifier of the object in the b
string localDir = System.IO.Path.GetTempPath();// Local file directory
string localFileName = "my-local-temp-file"; // Filename of the local file
```

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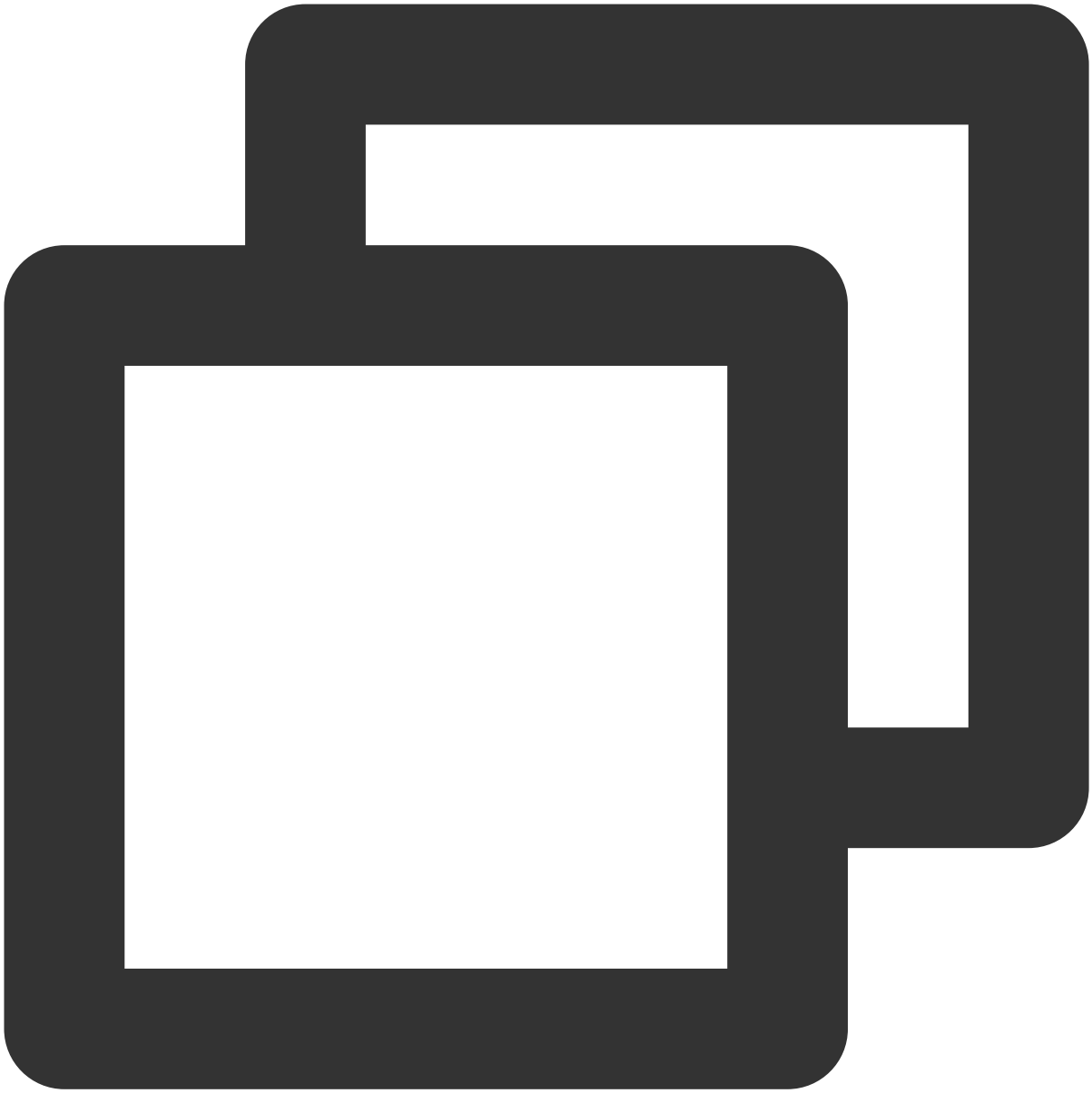
```
// Download an object
COSXMLDownloadTask downloadTask = new COSXMLDownloadTask(bucket, cosPath,
  localDir, localFileName);

downloadTask.progressCallback = delegate (long completed, long total)
{
    Console.WriteLine(String.Format("progress = {0:##.##}%", completed * 100.0 / to
};

try {
  COSXML.Transfer.COSXMLDownloadTask.DownloadTaskResult result = await
    transferManager.DownloadAsync(downloadTask);
  Console.WriteLine(result.GetResultInfo());
  string eTag = result.eTag;
} catch (Exception e){
    Console.WriteLine("CosException: " + e);
}
```

Deleting an object

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```
try
{
  string bucket = "examplebucket-1250000000"; // Bucket name in the format of Bucke
  string key = "exampleobject"; // Object key
  DeleteObjectRequest request = new DeleteObjectRequest(bucket, key);
  // Execute the request
  DeleteObjectResult result = cosXml.DeleteObject(request);
  // Request succeeded
  Console.WriteLine(result.GetResultInfo());
}
catch (COSXML.CosException.CosClientException clientEx)
```

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```
{
  // Request failed
  Console.WriteLine("CosClientException: " + clientEx);
}
catch (COSXML.CosException.CosServerException serverEx)
{
  // Request failed
  Console.WriteLine("CosServerException: " + serverEx.GetInfo());
}
```

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Image Processing
Basic Image Processing

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for basic image processing.

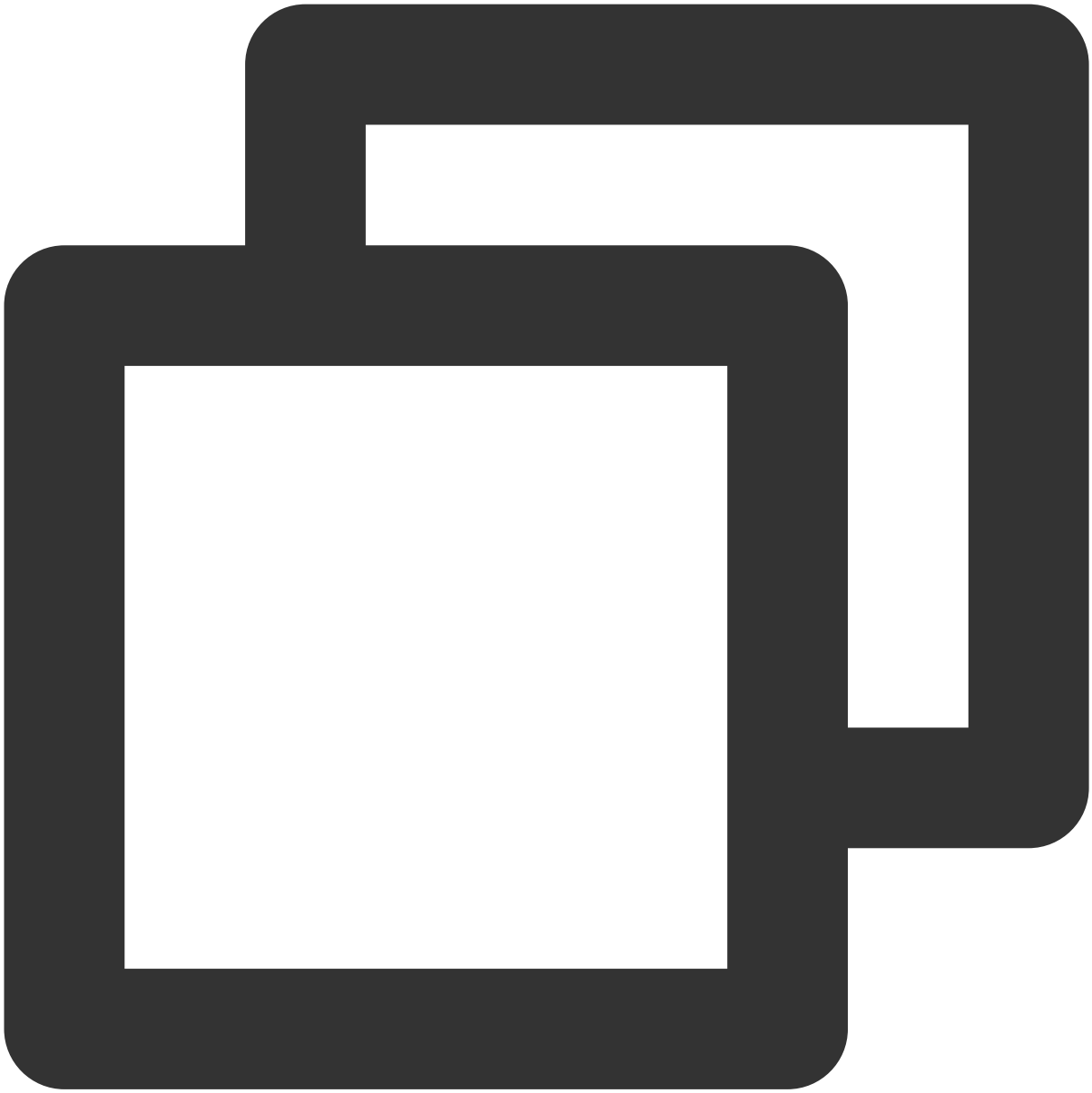
Service	Feature	Description
Basic image processing	Scaling	Proportional scaling, scaling image to target width and height
	Cropping	Regular cropping, cropping and scaling, cropping to circle, smart face cropping
	Rotation	Adaptive rotation, regular rotation
	Format conversion	Format conversion, GIF format optimization, progressive display
	Quality change	Quality change for JPG and WebP images
	Gaussian blurring	Image blurring
	Sharpening	Image sharpening
	Watermarking	Image watermark, text watermark
	Image information acquisition	Basic information, EXIF information, average hue
	Metadata removal	Including EXIF information
	Quick thumbnail template	Quick image format conversion, scaling, and cropping for thumbnail generation

Processing Image During Upload

The following example shows how to automatically process an image when you upload it to COS.
When the image is uploaded successfully, COS will save both the original and the processed images. You can later obtain the processing results by using a general download request.

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Sample code



```
PutObjectRequest request = new PutObjectRequest(bucket, key, srcPath);

JObject o = new JObject();
// Do not return the input image
o["is_pic_info"] = 0;
JArray rules = new JArray();
JObject rule = new JObject();
rule["bucket"] = bucket;
rule["fileid"] = "desample_photo.jpg";
```

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```
// Processing parameters. For rules, visit https://cloud.tencent.com/document/produ
rule["rule"] = "imageMogr2/thumbnail/400x400";
rules.Add(rule);
o["rules"] = rules;

string ruleString = o.ToString(Formatting.None);
request.SetRequestHeader("Pic-Operations", ruleString);
// Execute the request
PutObjectResult result = cosXml.PutObject(request);
```

Note:

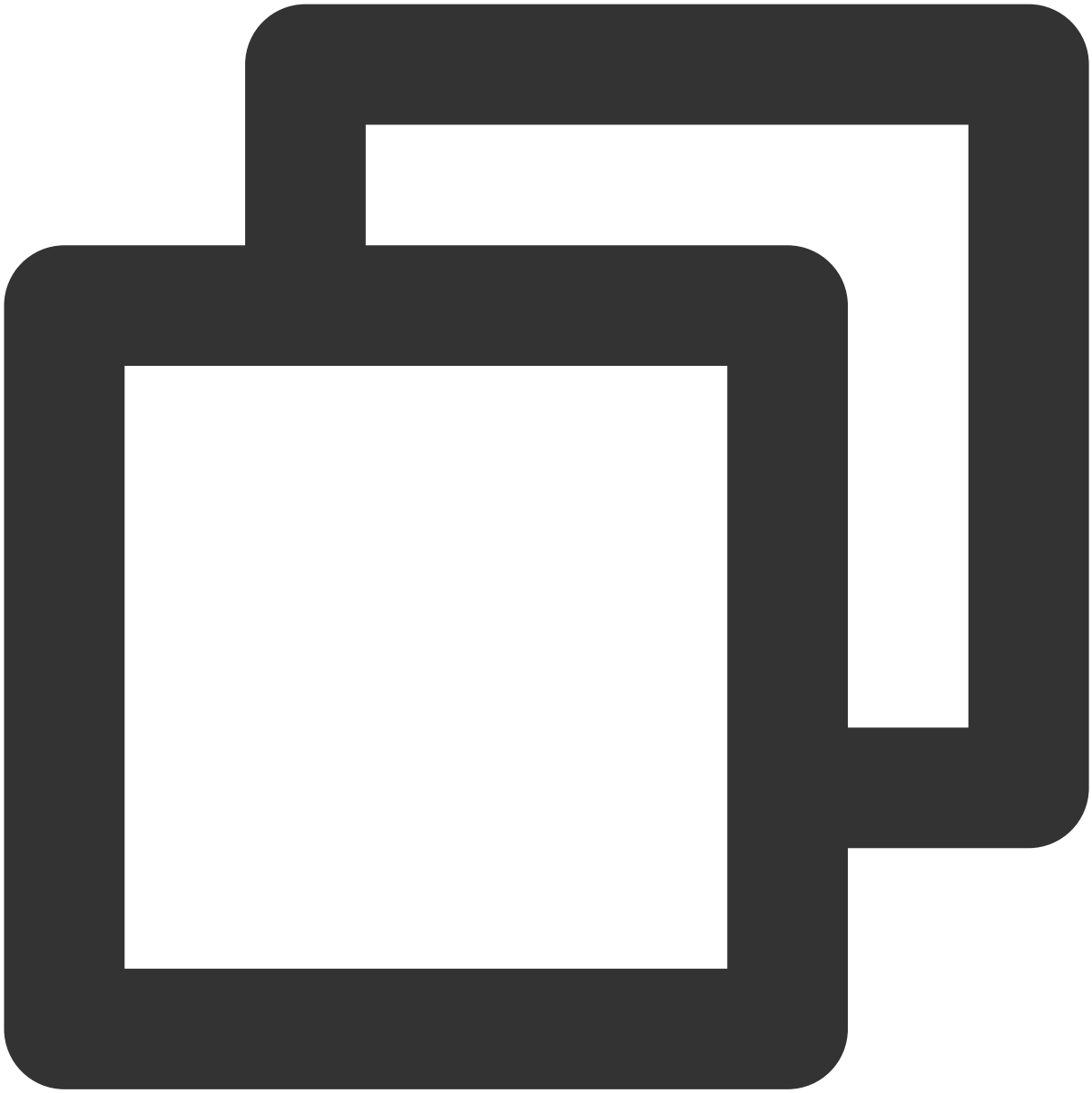
For more complete samples, visit GitHub.

Processing In-Cloud Image

The following example shows how to process an image stored in COS and save the processing result to COS.

Sample code

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```
JObject o = new JObject();
// Do not return the input image
o["is_pic_info"] = 0;
JArray rules = new JArray();
JObject rule = new JObject();
rule["bucket"] = bucket;
rule["fileid"] = "desample_photo.jpg";
// Processing parameters. For rules, visit https://cloud.tencent.com/document/produ
rule["rule"] = "imageMogr2/thumbnail/400x400";
rules.Add(rule);
o["rules"] = rules;
```

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```
string ruleString = o.ToString(Formatting.None);

ImageProcessRequest request = new ImageProcessRequest(bucket, key, ruleString);
ImageProcessResult result = cosXml.ImageProcess(request);
```

Note:

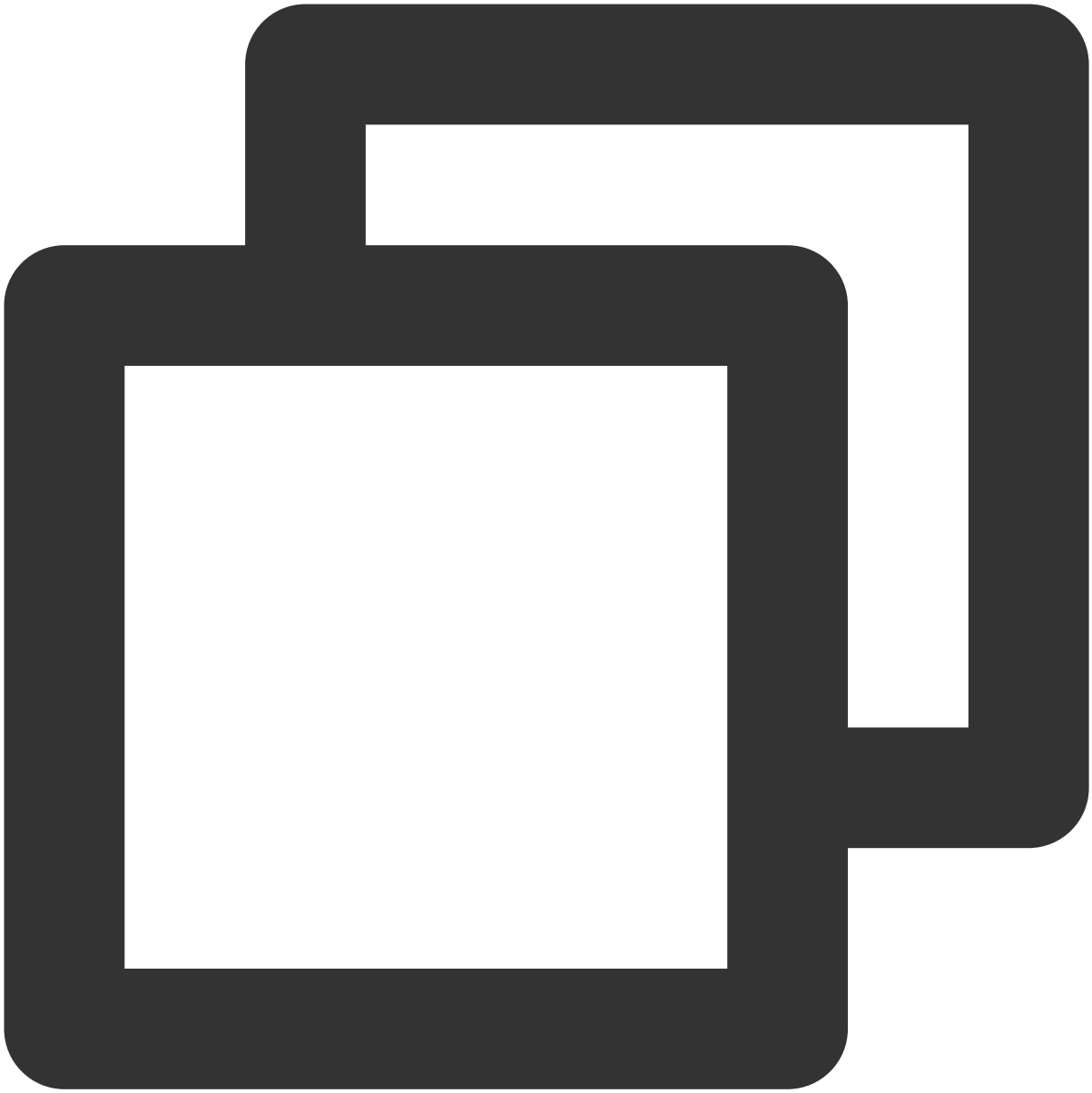
For more complete samples, visit GitHub.

Processing Image During Download

The following example shows how to process an image stored in COS during download.

Sample code

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```
GetObjectRequest getObjectRequest = new GetObjectRequest(bucket, key, localDir, loc
// Processing parameters. This sample converts the image into TPG format. For the r
getObjectRequest.SetQueryParameter("imageMogr2/format/tpg", null);
```

Note:

For more complete samples, visit GitHub.

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Blind Watermark

Last updated：2024-03-04 10:35:11

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.

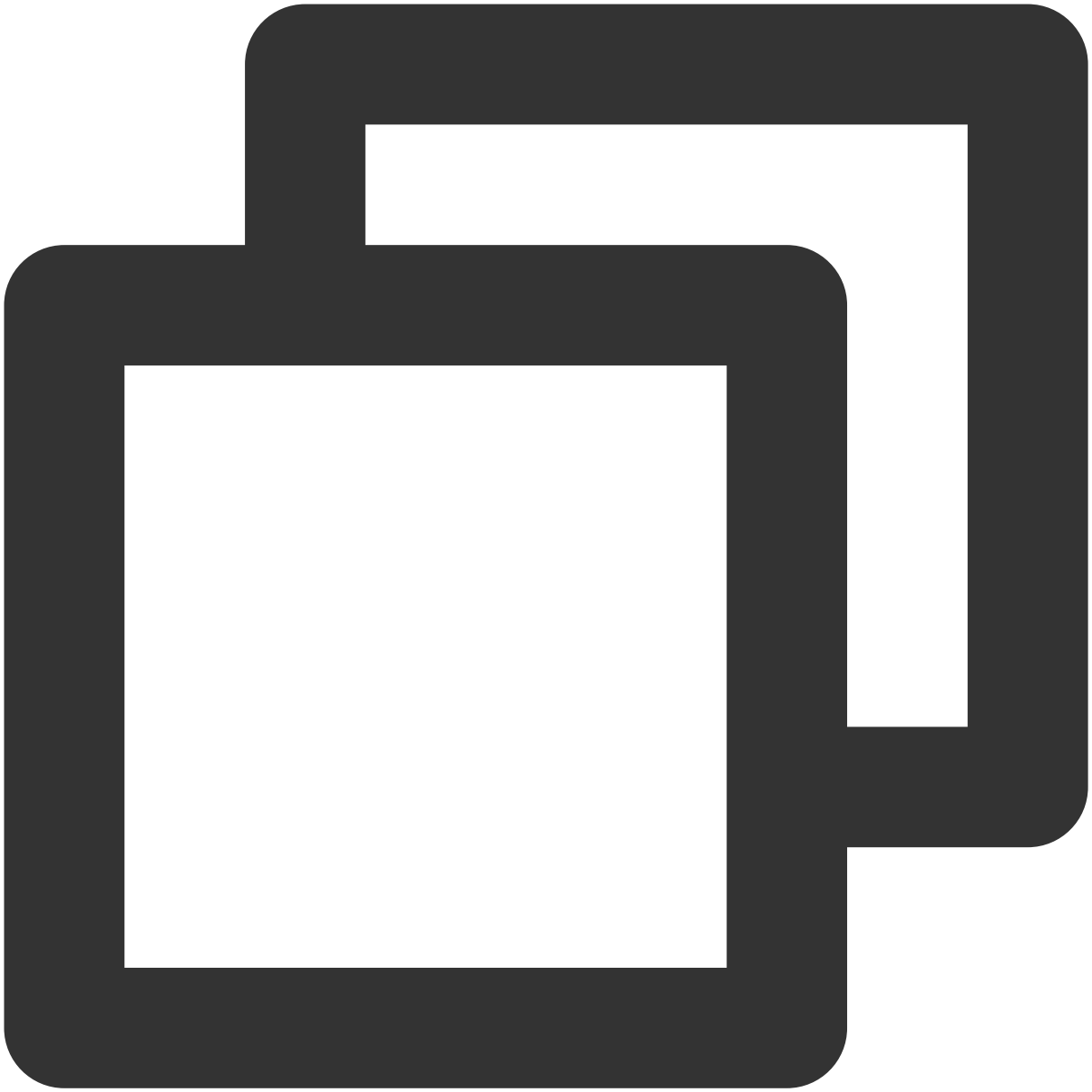
Adding Blind Watermark

Feature description

You can add a blind watermark when uploading or downloading an object.

Sample 1: Adding a blind watermark during upload

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```
PutObjectRequest request = new PutObjectRequest(bucket, key, srcPath);

JObject o = new JObject();
// Do not return the input image
o["is_pic_info"] = 0;
JArray rules = new JArray();
JObject rule = new JObject();
rule["bucket"] = bucket;
rule["fileid"] = key;
// Processing parameters. For rules, visit https://cloud.tencent.com/document/produ
rule["rule"] = "watermark/3/type/<type>/image/<imageUrl>/text/<text>/level/<level>"
```

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```
rules.Add(rule);
o["rules"] = rules;

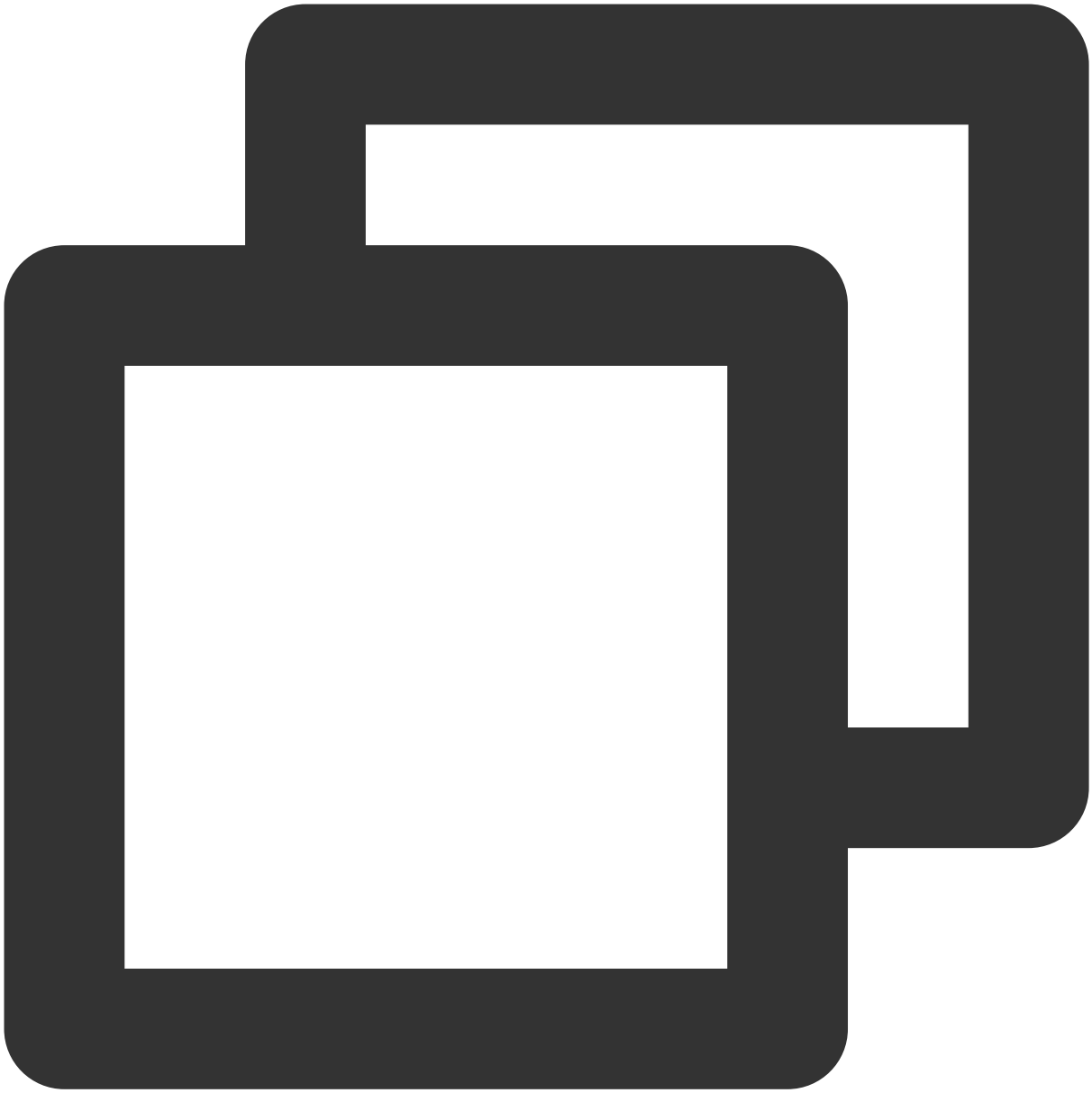
string ruleString = o.ToString(Formatting.None);
request.SetRequestHeader("Pic-Operations", ruleString);
// Execute the request
PutObjectResult result = cosXml.PutObject(request);
```

Note:

For more complete samples, visit GitHub.

Sample 2: Adding a blind watermark during download

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```
GetObjectRequest getObjectRequest = new GetObjectRequest(bucket, key, localDir, loc
// Processing parameters. For rules, visit https://cloud.tencent.com/document/produ
getObjectRequest.SetQueryParameter("watermark/3/type/<type>/image/<imageUrl>/text/<

GetObjectResult result = cosXml.GetObject(getObjectRequest);
```

Note:

For more complete samples, visit GitHub.

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Media Processing
Media Bucket APIs

Last updated：2024-03-04 11:24:21

Overview

This document provides an overview of APIs and SDK code samples for media buckets.

API	Operation	Description
DescribeMediaBuckets	Querying media processing activation status	Queries buckets with media processing enabled

Querying Media Processing Activation Status

Feature description

This API is used to query buckets with media processing enabled.

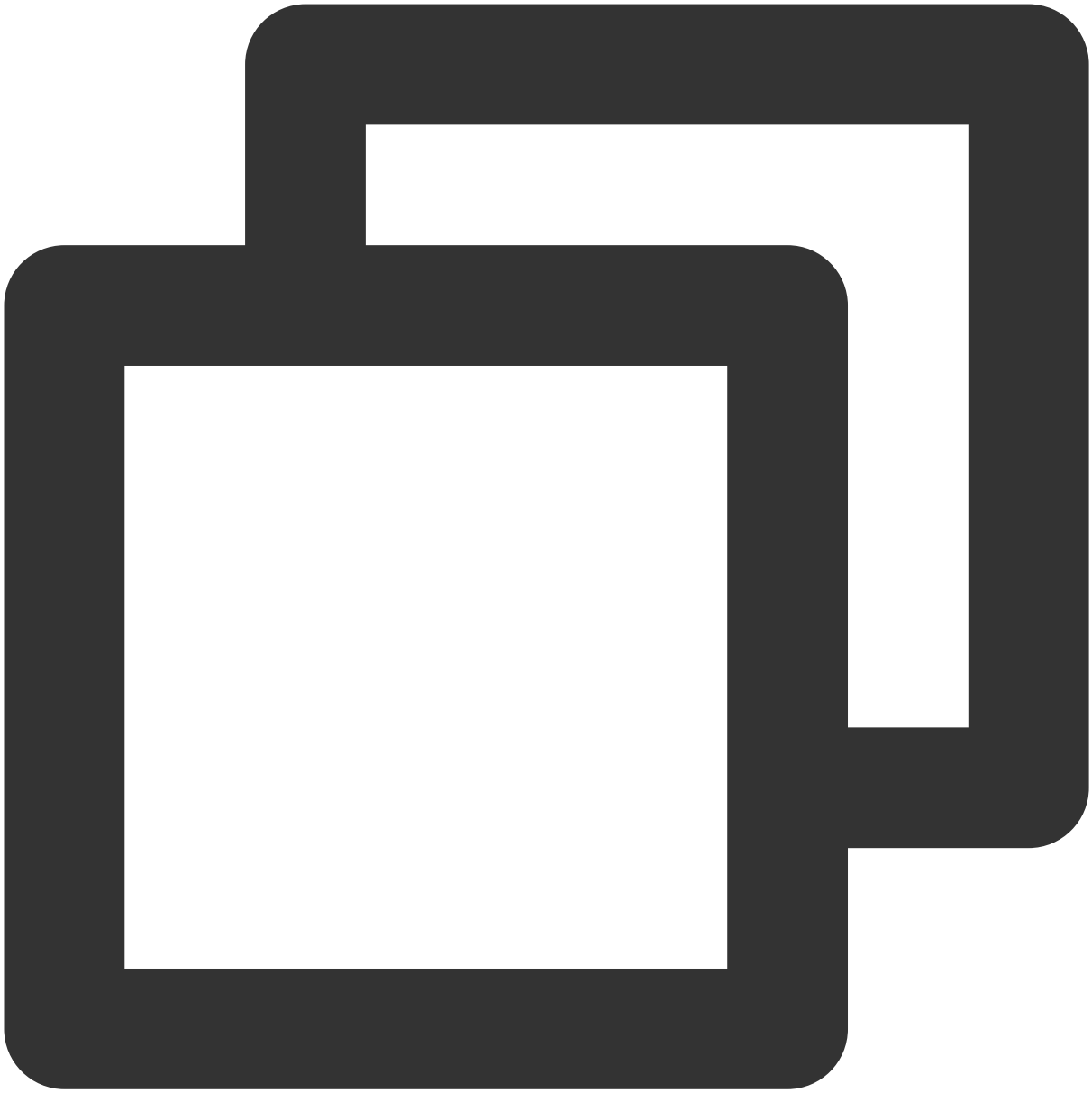
Note:

The `DescribeMediaBuckets` API is supported since v5.4.24. To download the new version of SDK, go to Releases or see Getting Started.

For the SDK version changelog, see Changelog.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using COSXML;

namespace COSSnippet
{
    public class DescribeMediaBucketModel {

      private CosXml cosXml;
```

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```
        DescribeMediaBucketModel() {
          CosXmlConfig config = new CosXmlConfig.Builder()
            .SetRegion("COS_REGION") // Set the default region. For abbreviations of
            .Build();

          string secretId = "SECRET_ID";    // TencentCloud API `SecretId`. For more i
          string secretKey = "SECRET_KEY"; // TencentCloud API `SecretKey`. For more
          long durationSecond = 600;          // Validity period of the request signa
          QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
            secretKey, durationSecond);

          this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
        }

        // Get the list of buckets with CI enabled
        public void DescribeMediaBucket()
        {
          //.cssg-snippet-body-start:[DescribeMediaBucket]
          DescribeMediaBucketsRequest request = new DescribeMediaBucketsRequest();
          // Execute the request
          DescribeMediaBucketsResult result = cosXml.DescribeMediaBuckets(request);
          Console.WriteLine(result.GetResultInfo());
          // Traverse the bucket list
          for (int i = 0; i < result.mediaBuckets.MediaBucketList.Count; i++)
          {
            Console.WriteLine(result.mediaBuckets.MediaBucketList[i].BucketId);
            Console.WriteLine(result.mediaBuckets.MediaBucketList[i].Region);
            Console.WriteLine(result.mediaBuckets.MediaBucketList[i].CreateTime);
          }
          //.cssg-snippet-body-end
        }

        static void Main(string[] args)
        {
          DescribeMediaBucketModel m = new DescribeMediaBucketModel();
          // Get the list of media buckets
          m.DescribeMediaBucket();
          // .cssg-methods-pragma
        }
      }
  }
```

Note:

For more complete samples, visit GitHub.

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Media Information APIs

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for media information.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

Querying File Information

Feature description

This API is used to query the information of a media file. To use this API, you must enable media processing for the bucket in the console.

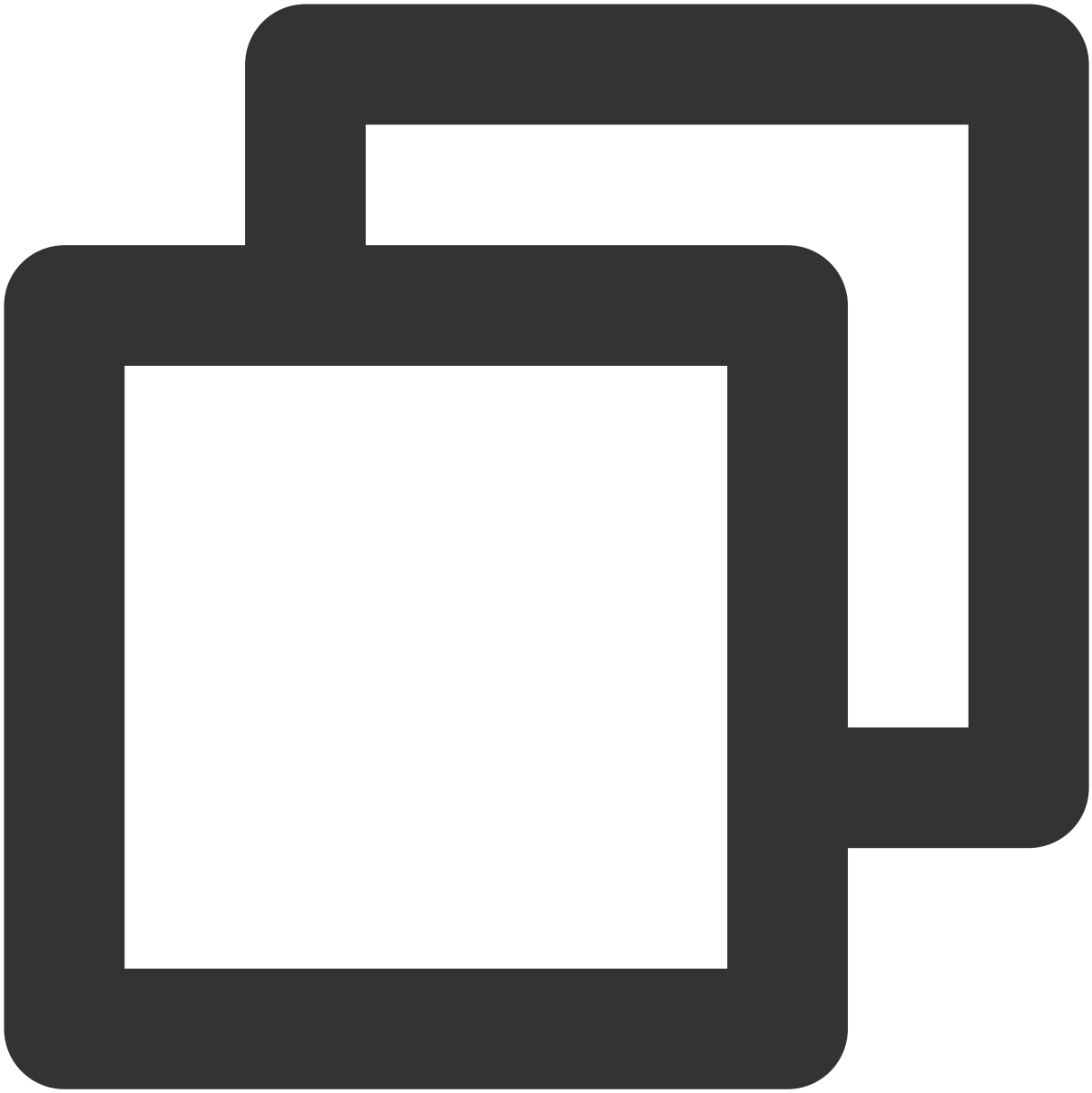
Note:

The `GetMediainfo` API is supported since v5.4.24. To download the new version of SDK, go to Releases or see Getting Started.

For the SDK version changelog, see Changelog.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using COSXML;

namespace COSSnippet
{
    public class GetMediaInfoModel {

      private CosXml cosXml;
```

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```
GetMediaInfoModel() {
  CosXmlConfig config = new CosXmlConfig.Builder()
    .SetRegion("COS_REGION") // Set the default region. For abbreviations of
    .Build();

  string secretId = "SECRET_ID";    // TencentCloud API `SecretId`. For more i
  string secretKey = "SECRET_KEY"; // TencentCloud API `SecretKey`. For more
  long durationSecond = 600;          // Validity period of the request signa
  QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
    secretKey, durationSecond);

  this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
}

/// Get media file information
public void GetMediaInfo()
{
  //.cssg-snippet-body-start:[GetMediaInfo]
  // Bucket name in the format of `BucketName-APPID`. You can get the `APPID`
  string bucket = "examplebucket-1250000000";
  string key = "mediafile"; // Object key of the media file, which should be
  GetMediaInfoRequest request = new GetMediaInfoRequest(bucket, key);
  // Execute the request
  GetMediaInfoResult result = cosXml.GetMediaInfo(request);
  Console.WriteLine(result.GetResultInfo());
  // Get video media information
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Stream);
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Stream.Video);
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Stream.Video.Index);
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Stream.Video.CodecName);
  // Get audio information
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Stream.Audio);
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Stream.Audio.Index);
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Stream.Audio.CodecName);
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Stream.Audio.CodecLongNa
  // Get the `Format` field
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Format);
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Format.NumStream);
  Console.WriteLine(result.mediaInfoResult.MediaInfo.Format.NumProgram);
  //.cssg-snippet-body-end
}

static void Main(string[] args)
{
  GetMediaInfoModel m = new GetMediaInfoModel();
  /// Get media file information
  m.GetMediaInfo();
```

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```
          // .cssg-methods-pragma
        }
      }
  }
```

Note:

For more complete samples, visit GitHub.

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Media Screenshot APIs

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for media screenshot.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

Querying Screenshot

Feature description

This API is used to query the screenshot of a media file at some time point.

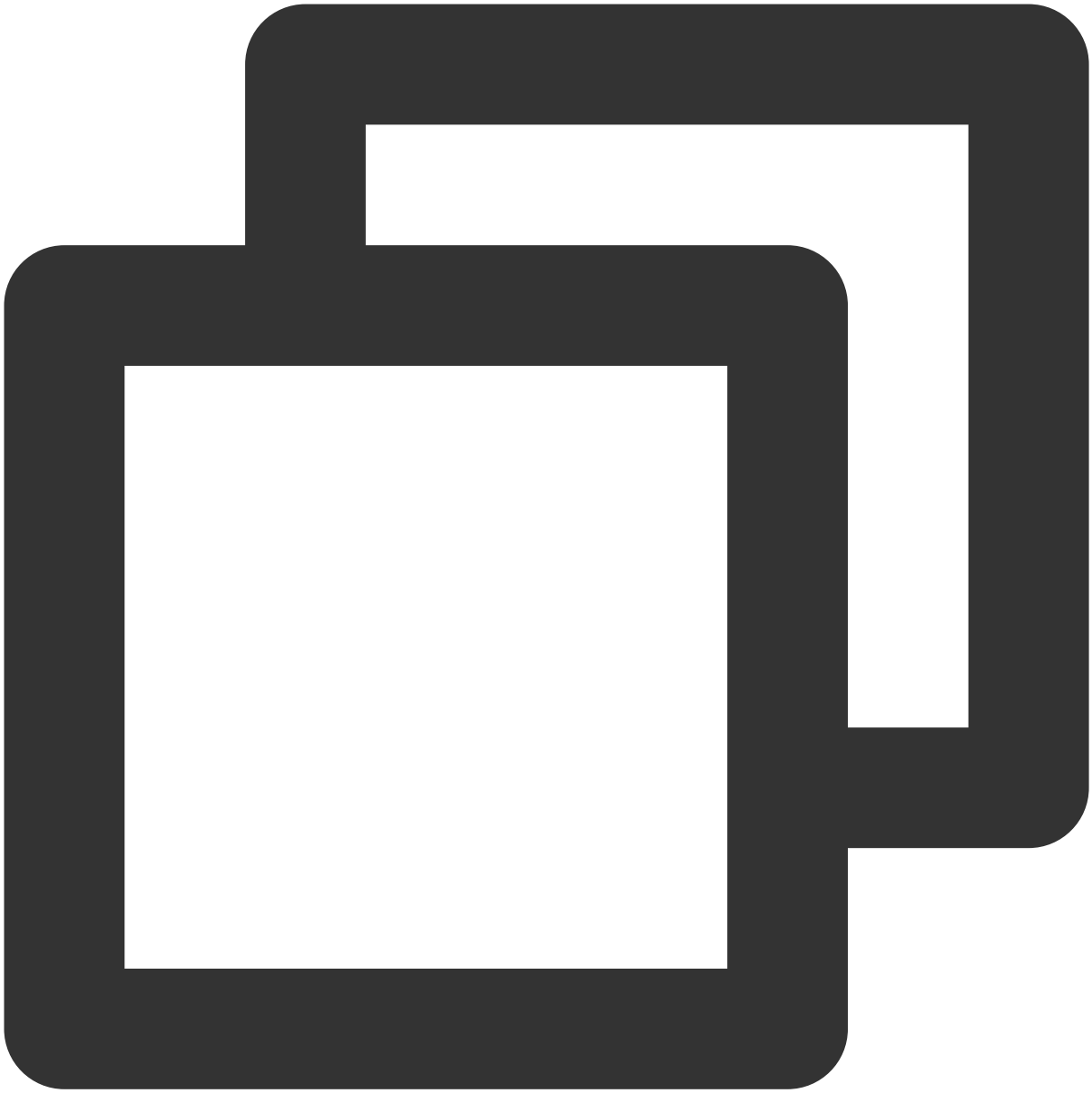
Note:

The `GetSnapshot` API is supported since v5.4.24. To download the new version of SDK, go to Releases or see Getting Started.

For the SDK version changelog, see Changelog.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using COSXML;

namespace COSSnippet
{
    public class GetSnapshotModel {

      private CosXml cosXml;
```

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```
        GetSnapshotModel() {
          CosXmlConfig config = new CosXmlConfig.Builder()
            .SetRegion("COS_REGION") // Set the default region. For abbreviations of
            .Build();

          string secretId = "SECRET_ID";    // TencentCloud API `SecretId`. For more i
          string secretKey = "SECRET_KEY"; // TencentCloud API `SecretKey`. For more
          long durationSecond = 600;          // Validity period of the request signa
          QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
            secretKey, durationSecond);

          this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
        }

        /// Capture video frames
        public void GetSnapshot()
        {
          // Bucket name in the format of `BucketName-APPID`. You can get the `APPID`
          string bucket = "examplebucket-1250000000";
          string key = "video.mp4"; // Object key of the media file, which should be
          float time = 1.5F; // Screenshot time point expressed as a floating point n
          string destPath = @"temp-source-file"; // The path to save the screenshot f
          GetSnapshotRequest request = new GetSnapshotRequest(bucket, key, time, dest
          // Execute the request
          GetSnapshotResult result = cosXml.GetSnapshot(request);
          Console.WriteLine(result.GetResultInfo());
        }

        static void Main(string[] args)
        {
          GetSnapshotModel m = new GetSnapshotModel();
          /// Capture video frames
          m.GetSnapshot();
        }
    }
}
```

Note:

For more complete samples, visit GitHub.

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Content Moderation
Image Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for image moderation.

API	Description
Moderating single image	Scans existing data stored in COS for porn, illegal, and advertising images.

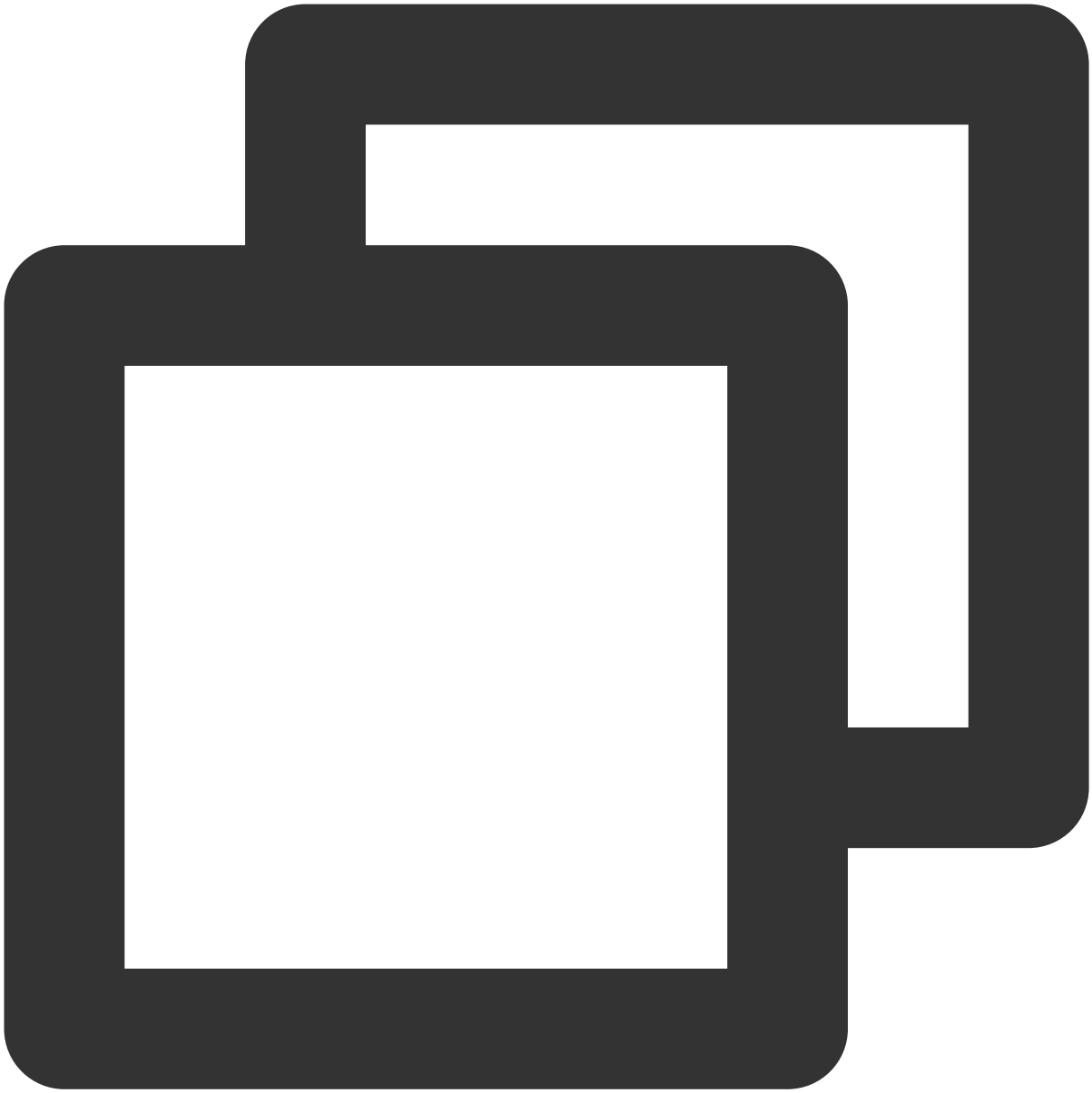
Moderating Existing Image

Feature description

The following example shows how to scan existing images stored in COS for porn, illegal, and advertising information.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using COSXML;

namespace COSSnippet
{
    public class PictureOperationModel {

      private CosXml cosXml;

      PictureOperationModel() {
```

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```
        CosXmlConfig config = new CosXmlConfig.Builder()
          .SetRegion("COS_REGION") // Set the default region. For abbreviations of
          .Build();

        string secretId = "SECRET_ID";   // SecretId of the TencentCloud API. For m
        string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
        long durationSecond = 600;          // Validity period of the request signa
        QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
          secretKey, durationSecond);

        this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
      }

      /// Image moderation
      public void SensitiveContentRecognition()
      {
        // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
        string bucket = "examplebucket-1250000000";
        string key = "exampleobject"; // Object key
        //.cssg-snippet-body-start:[sensitive-content-recognition]
        SensitiveContentRecognitionRequest request =
          new SensitiveContentRecognitionRequest(bucket, key, "ads");
        SensitiveContentRecognitionResult result = cosXml.SensitiveContentRecogniti
      }

      static void Main(string[] args)
      {
        PictureOperationModel m = new PictureOperationModel();
        /// Image moderation
        m.SensitiveContentRecognition();
      }
    }
}
```

Note:

For more complete samples, visit GitHub.

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Video Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

API	Description
Submitting video moderation job	Submits a video moderation job.
Querying video moderation job result	Queries the result of a specified video moderation job.

Submitting a Video Moderation Job

Feature description

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.

The following example shows how to submit a video moderation job and then query the result by `JobId` .

Note:

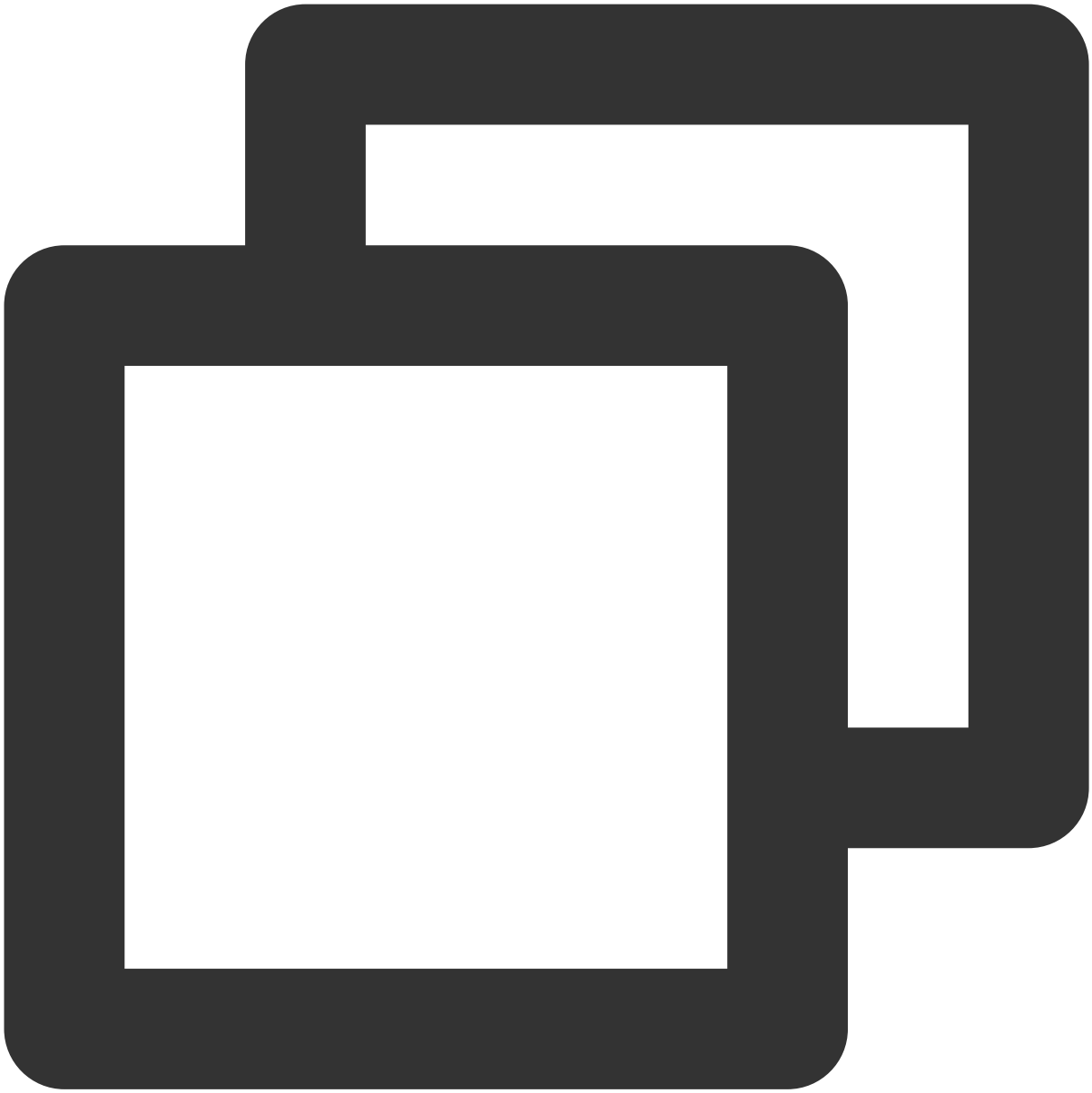
To perform this operation, the bucket should have CI features enabled.

Video moderation APIs are supported starting from v5.4.24. To download the latest SDK, go to Releases or see Getting Started.

To view the version change log, go to GitHub.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using System.Threading;
using COSXML;

namespace COSSnippet
{
    public class SubmitVideoCensorJobModel {

      private CosXml cosXml;
```

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```
    SubmitVideoCensorJobModel() {
      CosXmlConfig config = new CosXmlConfig.Builder()
        .SetRegion("COS_REGION") // Set the default region. For abbreviations of
        .Build();

      string secretId = "SECRET_ID";    // SecretId of the TencentCloud API. For m
      string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
      long durationSecond = 600;          // Validity period of the request signa
      QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
        secretKey, durationSecond);

      this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
    }

    /// Submit the video moderation job
    public string SubmitVideoCensorJob()
    {
      // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
      string bucket = "examplebucket-1250000000"; // Note: To perform this operat
      SubmitVideoCensorJobRequest request = new SubmitVideoCensorJobRequest(bucke
      request.SetCensorObject("video.mp4"); // Object key of the media file, whic
      // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
      request.SetDetectType("Porn,Ads");
      // Video image moderation is implemented by taking a certain number of scre
      request.SetSnapshotMode("Average"); // Frame capturing mode. Valid values:
      request.SetSnapshotCount("100"); // The number of captured frames. Value ra
      request.SetSnapshotTimeInterval("1.0"); // Video frame capturing frequency.
      // Execute the request
      SubmitCensorJobResult result = cosXml.SubmitVideoCensorJob(request);
      Console.WriteLine(result.GetResultInfo());
      Console.WriteLine(result.censorJobsResponse.JobsDetail.JobId);
      Console.WriteLine(result.censorJobsResponse.JobsDetail.State);
      Console.WriteLine(result.censorJobsResponse.JobsDetail.CreationTime);
      return result.censorJobsResponse.JobsDetail.JobId;
    }

    static void Main(string[] args)
    {
      SubmitVideoCensorJobModel m = new SubmitVideoCensorJobModel();
      /// Submit the moderation job. The `JobId` uniquely identifies the result o
      string JobId = m.SubmitVideoCensorJob();
      /// Print the `JobId`
      Console.WriteLine("JobId : " + JobId);
    }
  }
}
```

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Note:

For more complete samples, visit GitHub.

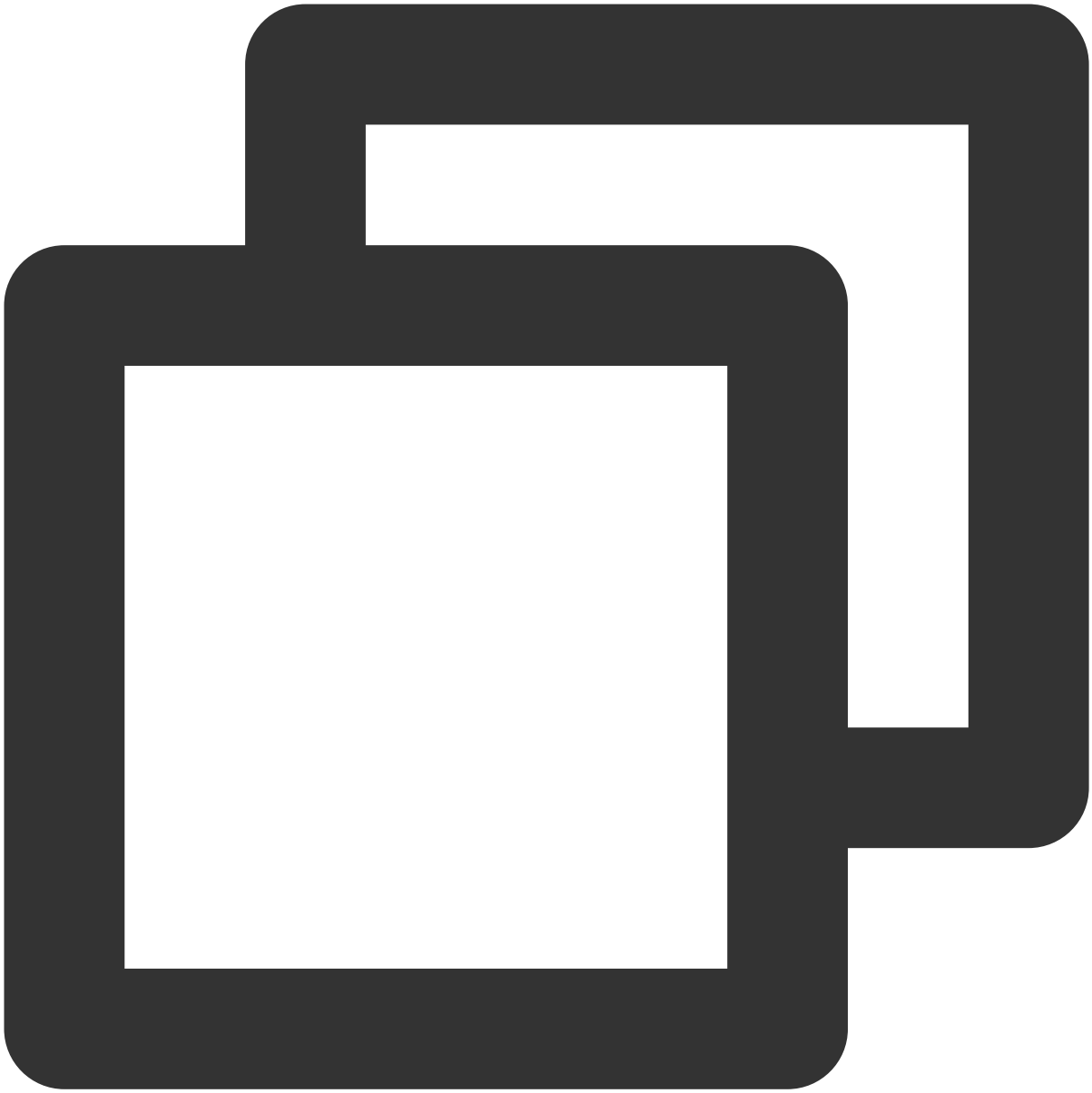
Querying Video Moderation Job Result

Feature description

This API is used to query the status and result of a video moderation job.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using System.Threading;
using COSXML;

namespace COSSnippet
{
    public class SubmitVideoCensorJobModel {

      private CosXml cosXml;
```

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```
SubmitVideoCensorJobModel() {
  CosXmlConfig config = new CosXmlConfig.Builder()
    .SetRegion("COS_REGION") // Set the default region. For abbreviations of
    .Build();

  string secretId = "SECRET_ID";    // SecretId of the TencentCloud API. For m
  string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
  long durationSecond = 600;          // Validity period of the request signa
  QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
    secretKey, durationSecond);

  this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
}

/// Query the video moderation job result
public void GetVideoCensorJobResult(string JobId)
{
  // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
  string bucket = "examplebucket-1250000000"; // Note: To perform this operat
  GetVideoCensorJobRequest request = new GetVideoCensorJobRequest(bucket, Job
  // Execute the request
  GetVideoCensorJobResult result = cosXml.GetVideoCensorJob(request);
  Console.WriteLine(result.GetResultInfo());

  // Read the moderation result
  Console.WriteLine(result.resultStruct.JobsDetail.JobId);
  Console.WriteLine(result.resultStruct.JobsDetail.State);
  Console.WriteLine(result.resultStruct.JobsDetail.CreationTime);
  Console.WriteLine(result.resultStruct.JobsDetail.Object);
  Console.WriteLine(result.resultStruct.JobsDetail.SnapshotCount);
  Console.WriteLine(result.resultStruct.JobsDetail.Result);

  Console.WriteLine(result.resultStruct.JobsDetail.PornInfo.HitFlag);
  Console.WriteLine(result.resultStruct.JobsDetail.PornInfo.Count);

  Console.WriteLine(result.resultStruct.JobsDetail.AdsInfo.HitFlag);
  Console.WriteLine(result.resultStruct.JobsDetail.AdsInfo.Count);

  // Moderate video screenshots
  for(int i = 0; i < result.resultStruct.JobsDetail.Snapshot.Count; i++)
  {
      Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].Url);
      Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].Text);
      Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].SnapshotTi
      Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].PornInfo.H
      Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].PornInfo.S
```

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```
            Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].PornInfo.L
            Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].PornInfo.S

            Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].AdsInfo.Hi
            Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].AdsInfo.Sc
            Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].AdsInfo.La
            Console.WriteLine(result.resultStruct.JobsDetail.Snapshot[i].AdsInfo.Su
        }
    }

    static void Main(string[] args)
    {
        SubmitVideoCensorJobModel m = new SubmitVideoCensorJobModel();
        // Enter the `JobId` obtained when you submit the moderation job
        string JobId = "xxx";
        /// Query the moderation job
        m.GetVideoCensorJobResult(JobId);
    }
  }
}
```

Note:

For more complete samples, visit GitHub.

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Audio Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for audio moderation.

API	Description
Submitting audio moderation job	Submits an audio moderation job.
Querying audio moderation job result	Queries the result of a specified audio moderation job.

Submitting an Audio Moderation Job

Feature description

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 to query the moderation results.

The following example shows how to submit an audio moderation job and then query the result by `JobId` .

Note:

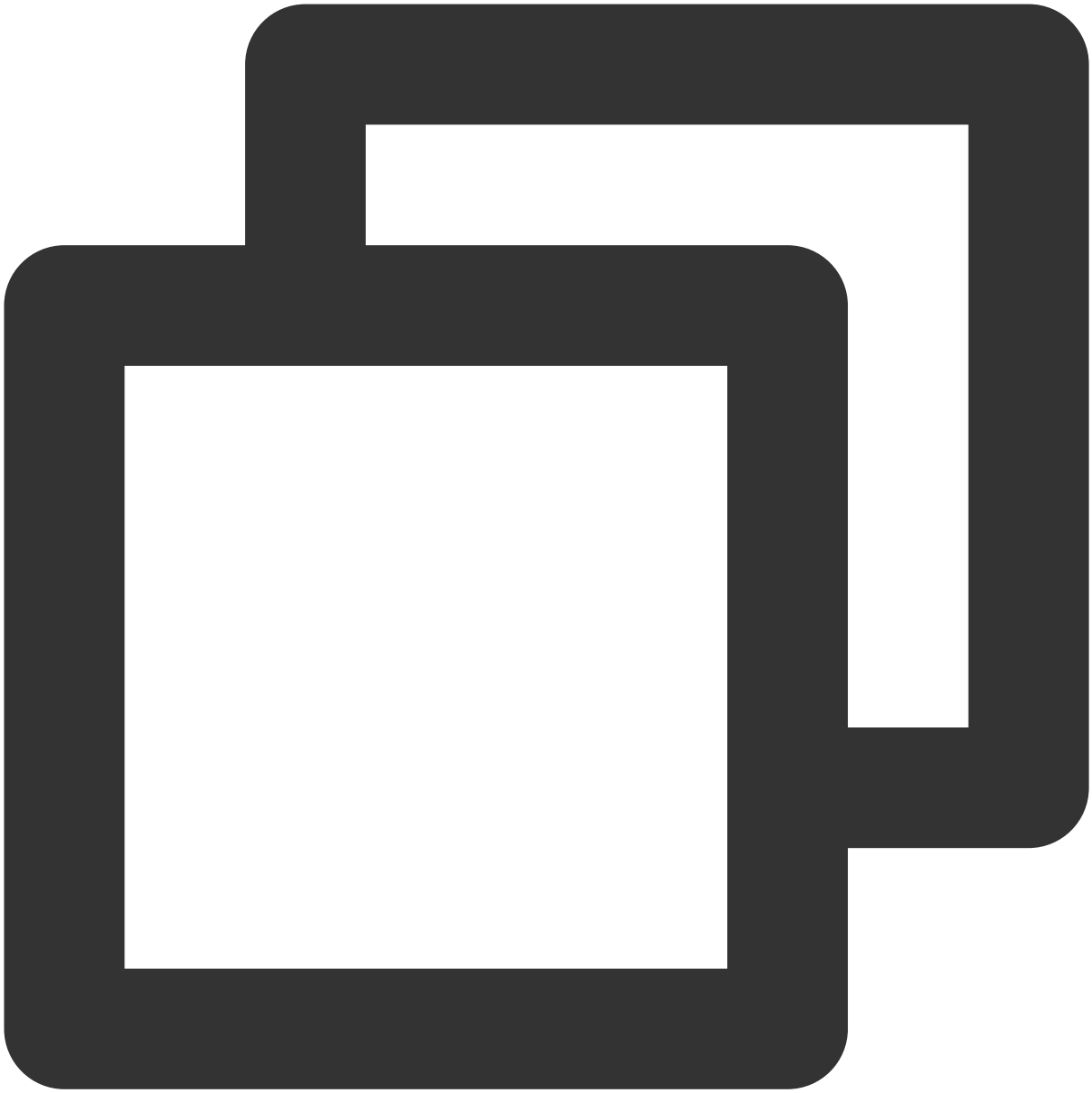
To perform this operation, the bucket should have CI features enabled.

Audio moderation APIs are supported starting from v5.4.24. To download the latest SDK, go to Releases or see Getting Started.

To view the version change log, go to GitHub.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using System.Threading;
using COSXML;

namespace COSSnippet
{
    public class SubmitAudioCensorJobModel {

      private CosXml cosXml;
```

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```
        SubmitAudioCensorJobModel() {
          CosXmlConfig config = new CosXmlConfig.Builder()
            .SetRegion("COS_REGION") // Set the default region. For abbreviations of
            .Build();

          string secretId = "SECRET_ID";    // SecretId of the TencentCloud API. For m
          string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
          long durationSecond = 600;          // Validity period of the request signa
          QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
            secretKey, durationSecond);

          this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
        }

        /// Submit the audio moderation job
        public string SubmitAudioCensorJob()
        {
          // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
          string bucket = "examplebucket-1250000000"; // Note: To perform this operat
          SubmitAudioCensorJobRequest request = new SubmitAudioCensorJobRequest(bucke
          request.SetCensorObject("audio.mp3"); // Object key of the media file, whic
          // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
          request.SetDetectType("Porn,Ads");
          // Execute the request
          SubmitCensorJobResult result = cosXml.SubmitAudioCensorJob(request);
          Console.WriteLine(result.GetResultInfo());
          Console.WriteLine(result.censorJobsResponse.JobsDetail.JobId);
          Console.WriteLine(result.censorJobsResponse.JobsDetail.State);
          Console.WriteLine(result.censorJobsResponse.JobsDetail.CreationTime);
          return result.censorJobsResponse.JobsDetail.JobId;
        }

        static void Main(string[] args)
        {
          SubmitAudioCensorJobModel m = new SubmitAudioCensorJobModel();
          /// Submit the moderation job
          string JobId = m.SubmitAudioCensorJob();
          /// Print the `JobId` that uniquely identifies this moderation job
          Console.WriteLine("JobId : " + JobId);
        }
      }
  }
```

Note:

For more complete samples, visit GitHub.

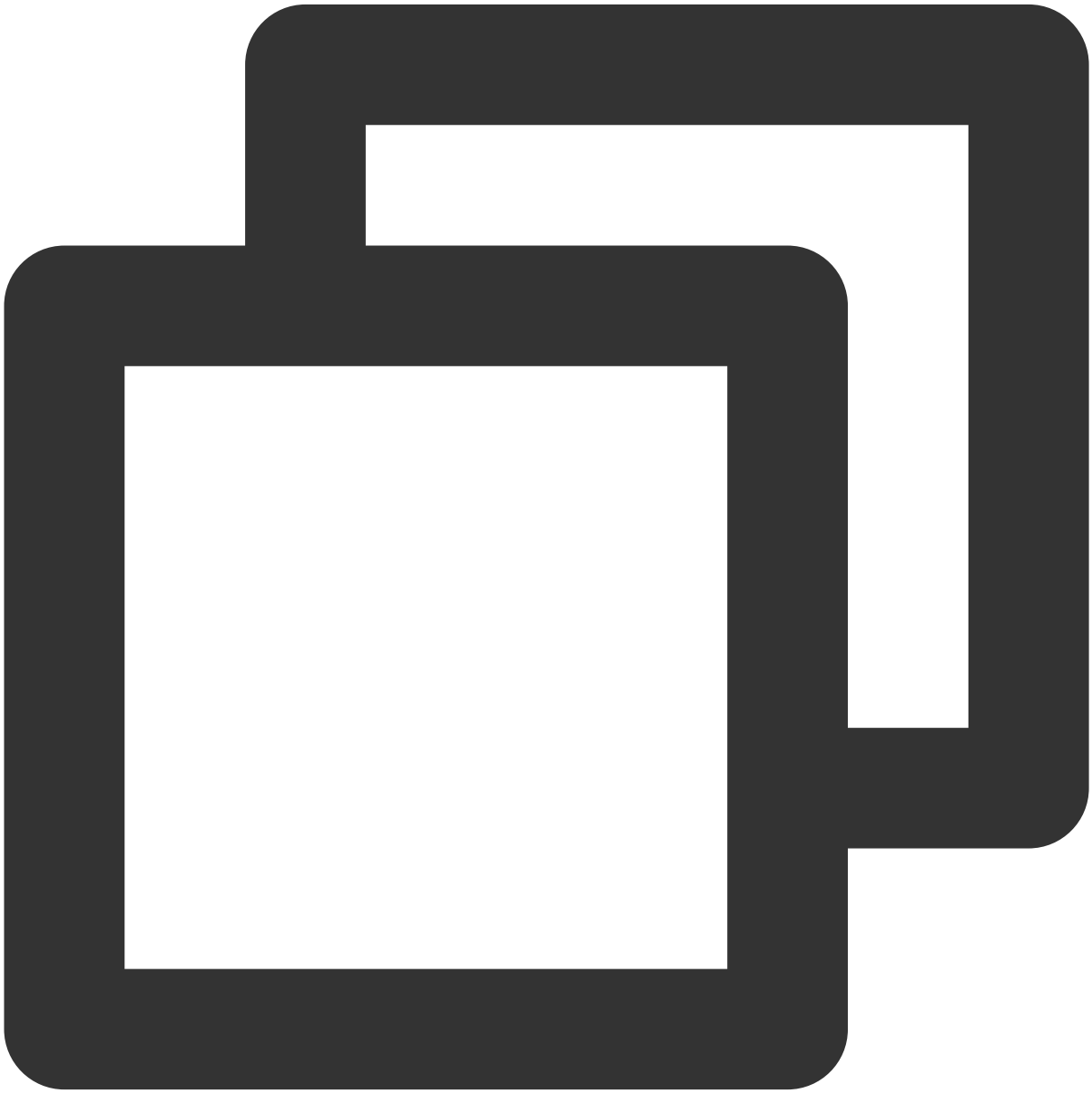
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Querying Audio Moderation Job Result

Feature description

This API is used to query the status and result of an audio moderation job.

Sample code



```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
```

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```
using System.Threading;
using COSXML;

namespace COSSnippet
{
    public class SubmitAudioCensorJobModel {

      private CosXml cosXml;

      SubmitAudioCensorJobModel() {
        CosXmlConfig config = new CosXmlConfig.Builder()
          .SetRegion("COS_REGION") // Set the default region. For abbreviations of
          .Build();

        string secretId = "SECRET_ID";    // SecretId of the TencentCloud API. For m
        string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
        long durationSecond = 600;          // Validity period of the request signa
        QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
          secretKey, durationSecond);

        this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
      }

      /// Query the audio moderation job result
      public void GetAudioCensorJobResult(string JobId)
      {
        // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
        string bucket = "examplebucket-1250000000"; // Note: To perform this operat
        GetAudioCensorJobRequest request = new GetAudioCensorJobRequest(bucket, Job
        // Execute the request
        GetAudioCensorJobResult result = cosXml.GetAudioCensorJob(request);
        Console.WriteLine(result.GetResultInfo());

        // Read the moderation result
        Console.WriteLine(result.resultStruct.JobsDetail.JobId);
        Console.WriteLine(result.resultStruct.JobsDetail.State);
        Console.WriteLine(result.resultStruct.JobsDetail.CreationTime);
        Console.WriteLine(result.resultStruct.JobsDetail.Object);
        Console.WriteLine(result.resultStruct.JobsDetail.Result);
        Console.WriteLine(result.resultStruct.JobsDetail.AudioText);

        Console.WriteLine(result.resultStruct.JobsDetail.PornInfo.HitFlag);
        Console.WriteLine(result.resultStruct.JobsDetail.PornInfo.Score);
        Console.WriteLine(result.resultStruct.JobsDetail.PornInfo.Label);

        Console.WriteLine(result.resultStruct.JobsDetail.AdsInfo.HitFlag);
        Console.WriteLine(result.resultStruct.JobsDetail.AdsInfo.Score);
```

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```
            Console.WriteLine(result.resultStruct.JobsDetail.AdsInfo.Label);

            // Information of audio sections
            for(int i = 0; i < result.resultStruct.JobsDetail.Section.Count; i++)
            {
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].Url);
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].OffsetTime)
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].Duration);
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].Text);
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].PornInfo.Hi
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].PornInfo.Sc

                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].AdsInfo.Hit
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].AdsInfo.Sco
            }
        }

        static void Main(string[] args)
        {
            SubmitAudioCensorJobModel m = new SubmitAudioCensorJobModel();
            /// Enter the `JobId` obtained when you submit the moderation job
            string JobId = "xxx";
            /// Query the moderation job result
            m.GetAudioCensorJobResult(JobId);
        }
    }
}
```

Note:

For more complete samples, visit GitHub.

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File Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for file moderation.

API	Description
Submitting file moderation job	Submits a file moderation job.
Querying file moderation job result	Queries the result of a specified file moderation job.

Submitting a File Moderation Job

Feature description

This API is used to submit a file moderation job, which can check your file for sensitive or non-compliant information.

The file moderation feature combines the file preview feature of COS to moderate files by converting them into images and leveraging image content moderation and OCR capabilities.

The following example shows how to submit a file moderation job and then query the result by `JobId` .

Note:

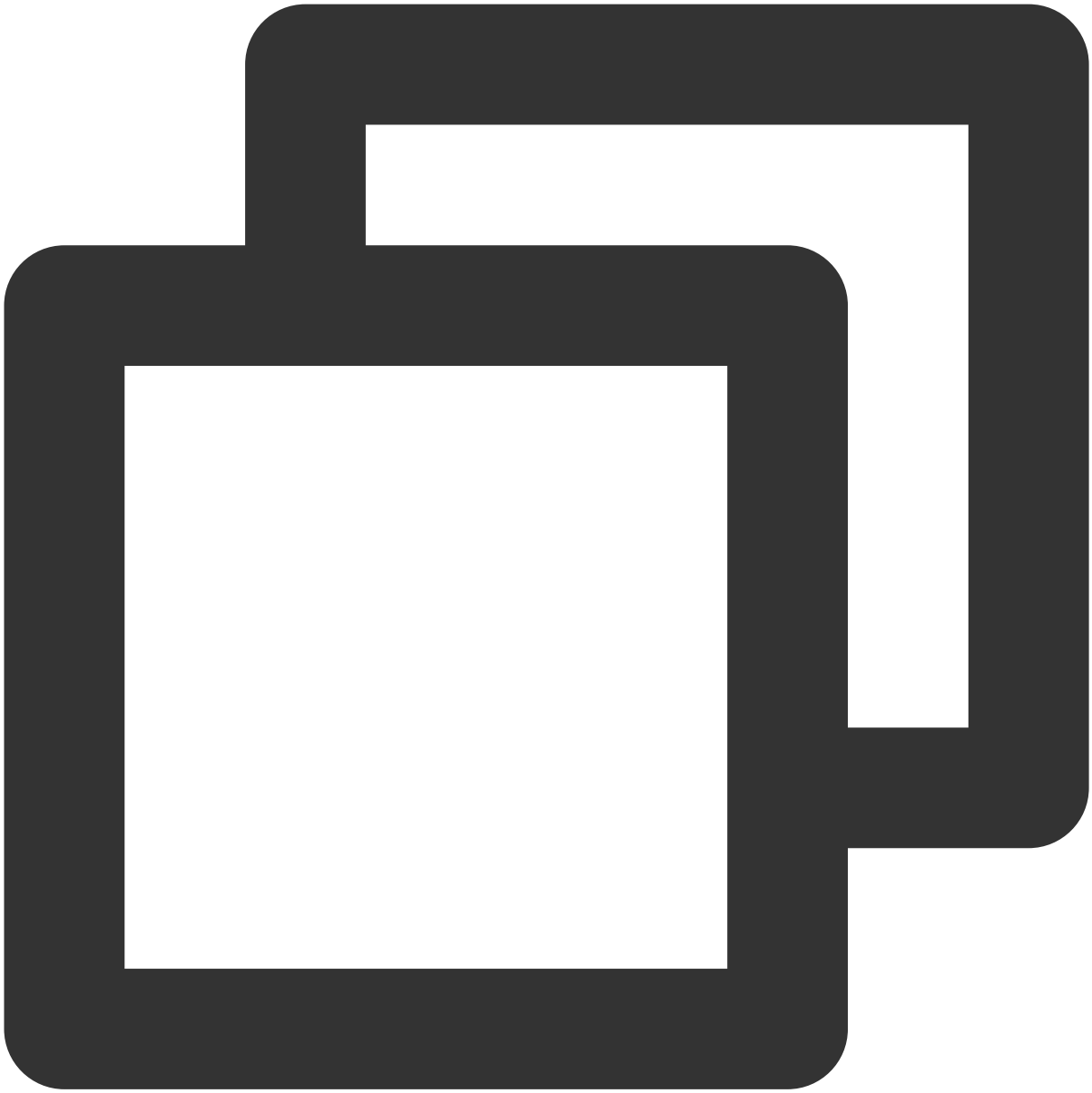
To perform this operation, the bucket should have CI features enabled.

File moderation APIs are supported starting from v5.4.24. To download the latest SDK, go to Releases or see Getting Started.

To view the version change log, go to GitHub.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using System.Threading;
using COSXML;

namespace COSSnippet
{
    public class SubmitDocumentCensorJobModel {

      private CosXml cosXml;
```

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```
        SubmitDocumentCensorJobModel() {
          CosXmlConfig config = new CosXmlConfig.Builder()
            .SetRegion("COS_REGION") // Set the default region. For abbreviations of
            .Build();

          string secretId = "SECRET_ID";   // SecretId of the TencentCloud API. For m
          string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
          long durationSecond = 600;          // Validity period of the request signa
          QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
            secretKey, durationSecond);

          this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
        }

        /// Submit the file moderation job
        public string SubmitDocumentCensorJob()
        {
          // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
          string bucket = "examplebucket-1250000000"; // Note: To perform this operat
          SubmitDocumentCensorJobRequest request = new SubmitDocumentCensorJobRequest
          request.SetUrl("url"); // URL of the file to be moderated, which should be
          // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
          request.SetDetectType("Porn,Ads");
          // Execute the request
          SubmitCensorJobResult result = cosXml.SubmitDocumentCensorJob(request);
          Console.WriteLine(result.GetResultInfo());
          Console.WriteLine(result.censorJobsResponse.JobsDetail.JobId);
          Console.WriteLine(result.censorJobsResponse.JobsDetail.State);
          Console.WriteLine(result.censorJobsResponse.JobsDetail.CreationTime);
          return result.censorJobsResponse.JobsDetail.JobId;
        }

        static void Main(string[] args)
        {
          SubmitDocumentCensorJobModel m = new SubmitDocumentCensorJobModel();
          /// Submit the moderation job
          string JobId = m.SubmitDocumentCensorJob();
        }
      }
  }
```

Note:

For more complete samples, visit GitHub.

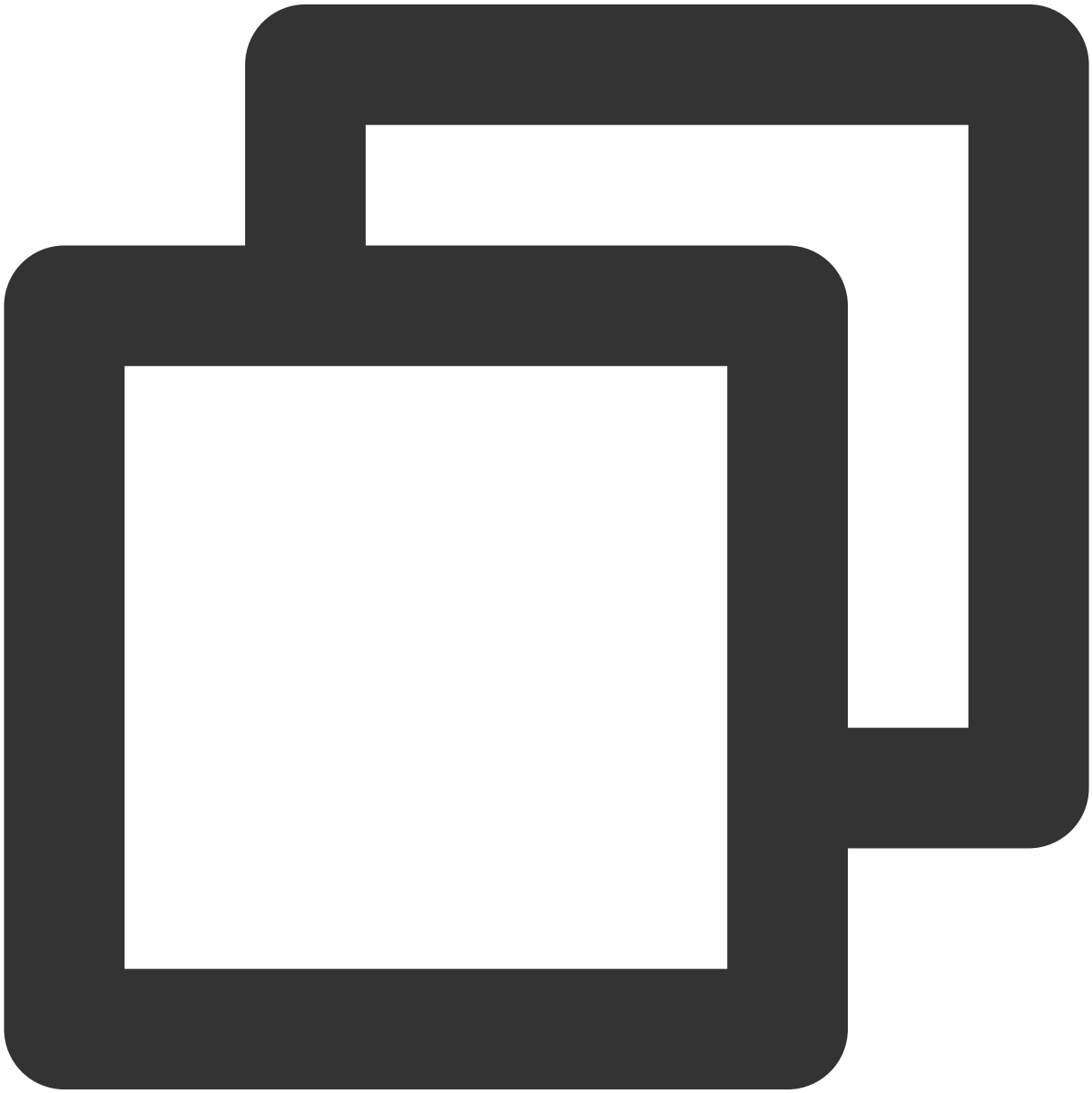
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Querying File Moderation Job

Feature description

This API is used to query the status and result of a file moderation job.

Sample code



```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
```

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```
using System.Threading;
using COSXML;

namespace COSSnippet
{
    public class SubmitDocumentCensorJobModel {

      private CosXml cosXml;

      SubmitDocumentCensorJobModel() {
        CosXmlConfig config = new CosXmlConfig.Builder()
          .SetRegion("COS_REGION") // Set the default region. For abbreviations of
          .Build();

        string secretId = "SECRET_ID";    // SecretId of the TencentCloud API. For m
        string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
        long durationSecond = 600;          // Validity period of the request signa
        QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
          secretKey, durationSecond);

        this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
      }

      /// Query the file moderation job result
      public void GetDocumentCensorJobResult(string JobId)
      {
        // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
        string bucket = "examplebucket-1250000000"; // Note: To perform this operat
        GetDocumentCensorJobRequest request = new GetDocumentCensorJobRequest(bucke
        // Execute the request
        GetDocumentCensorJobResult result = cosXml.GetDocumentCensorJob(request);
        Console.WriteLine(result.GetResultInfo());

        // Read the moderation result
        Console.WriteLine(result.resultStruct.JobsDetail.State);
        Console.WriteLine(result.resultStruct.JobsDetail.JobId);
        Console.WriteLine(result.resultStruct.JobsDetail.Suggestion);
        Console.WriteLine(result.resultStruct.JobsDetail.CreationTime);
        Console.WriteLine(result.resultStruct.JobsDetail.Url);
        Console.WriteLine(result.resultStruct.JobsDetail.PageCount);
        Console.WriteLine(result.resultStruct.JobsDetail.Labels);
        Console.WriteLine(result.resultStruct.JobsDetail.Labels.PornInfo.HitFlag);
        Console.WriteLine(result.resultStruct.JobsDetail.Labels.PornInfo.Score);
        Console.WriteLine(result.resultStruct.JobsDetail.PageSegment.Results.Url);
        Console.WriteLine(result.resultStruct.JobsDetail.PageSegment.Results.Text);
        Console.WriteLine(result.resultStruct.JobsDetail.PageSegment.Results.PageNu
        Console.WriteLine(result.resultStruct.JobsDetail.PageSegment.Results.PornIn
```

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```
            Console.WriteLine(result.resultStruct.JobsDetail.PageSegment.Results.PornIn
            Console.WriteLine(result.resultStruct.JobsDetail.PageSegment.Results.PornIn
        }

        static void Main(string[] args)
        {
            SubmitDocumentCensorJobModel m = new SubmitDocumentCensorJobModel();
            /// Enter the `JobId` that is returned during moderation job submission and
            string JobId = "xxx";
            /// Query the moderation job result
            m.GetDocumentCensorJobResult(JobId);
        }
    }
}
```

Note:

For more complete samples, visit GitHub.

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Text Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for text moderation.

API	Description
Submitting text moderation job	Submits a text moderation job.
Querying text moderation job result	Queries the result of a specified text moderation job.

Submitting a Text Moderation Job

Feature description

This API is used to submit a text moderation job. You can submit a job to moderate your text files, and then use the API for querying text moderation job result to query the moderation results.

The following example shows how to submit a text moderation job and then query the result by `JobId` .

Note:

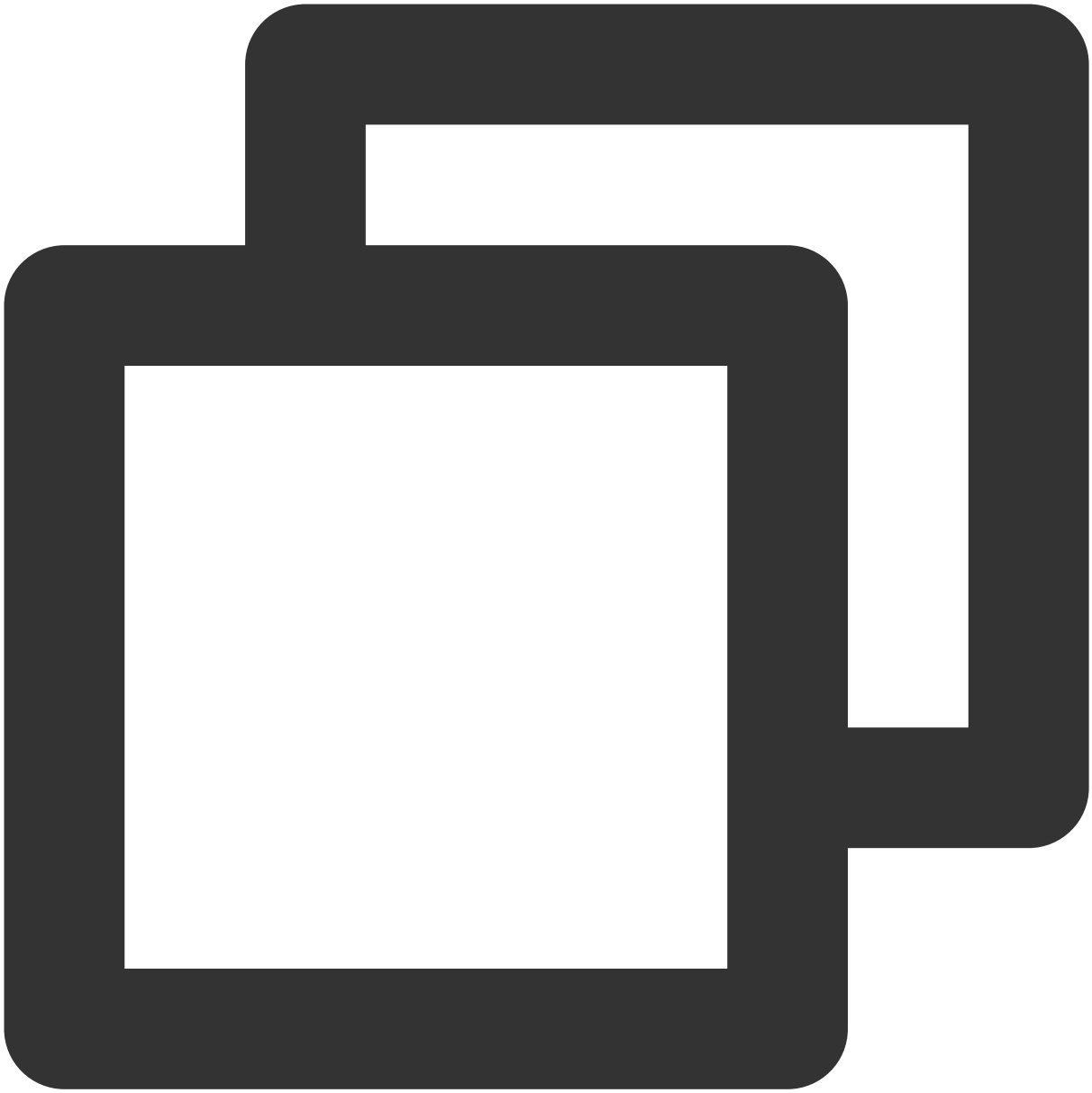
To perform this operation, the bucket should have CI features enabled.

Text moderation APIs are supported starting from v5.4.24. To download the latest SDK, go to Releases or see Getting Started.

To view the version change log, go to GitHub.

Sample code

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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using System.Threading;
using COSXML;

namespace COSSnippet
{
    public class SubmitTextCensorJobModel {

      private CosXml cosXml;
```

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```
        SubmitTextCensorJobModel() {
          CosXmlConfig config = new CosXmlConfig.Builder()
            .SetRegion("COS_REGION") // Set the default region. For abbreviations of
            .Build();

          string secretId = "SECRET_ID";    // SecretId of the TencentCloud API. For m
          string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
          long durationSecond = 600;          // Validity period of the request signa
          QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
            secretKey, durationSecond);

          this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
        }

        /// Submit the text moderation job
        public string SubmitTextCensorJob()
        {
          // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
          string bucket = "examplebucket-1250000000"; // Note: To perform this operat
           SubmitTextCensorJobRequest request = new SubmitTextCensorJobRequest(bucket
          request.SetCensorObject("text.txt"); // Object key of the media file, which
          // The scene to be moderated, such as `Porn` (pornography) and `Ads` (adver
          request.SetDetectType("Porn,Ads");
          // Execute the request
          SubmitCensorJobResult result = cosXml.SubmitTextCensorJob(request);
          Console.WriteLine(result.GetResultInfo());
          Console.WriteLine(result.censorJobsResponse.JobsDetail.JobId);
          Console.WriteLine(result.censorJobsResponse.JobsDetail.State);
          Console.WriteLine(result.censorJobsResponse.JobsDetail.CreationTime);
          return result.censorJobsResponse.JobsDetail.JobId;
          //.cssg-snippet-body-end
        }

        static void Main(string[] args)
        {
          SubmitTextCensorJobModel m = new SubmitTextCensorJobModel();
          /// Submit the moderation job
          string JobId = m.SubmitTextCensorJob();
          /// Print the `JobId` that uniquely identifies this moderation job
          Console.WriteLine("JobId : " + JobId);
        }
      }
    }
```

Note:

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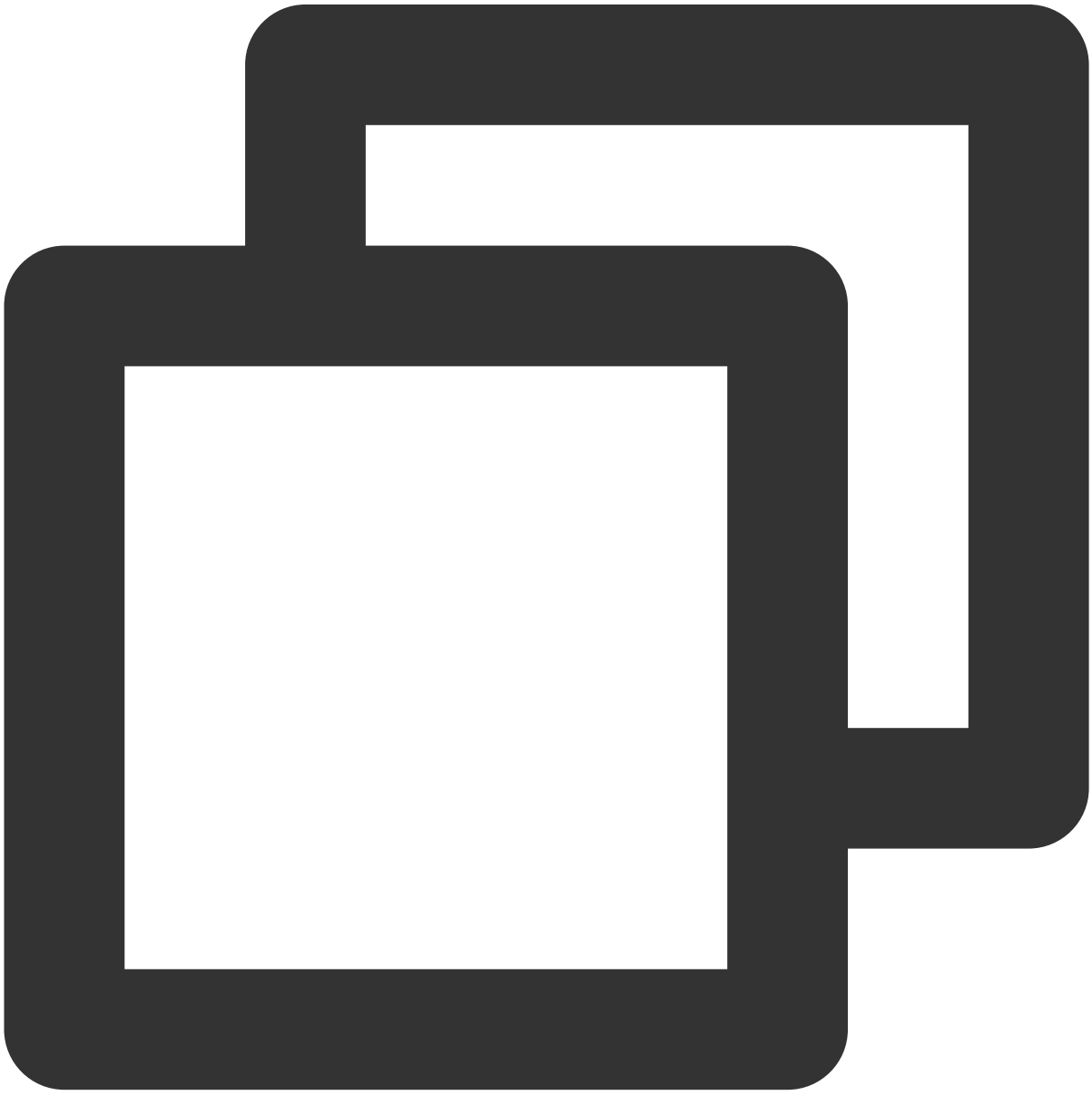
For more complete samples, visit GitHub.

Querying a Text Moderation Job

Feature description

This API is used to query the status and result of a text moderation job.

Sample code



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```
using COSXML.Model.CI;
using COSXML.Auth;
using System;
using System.Threading;
using COSXML;

namespace COSSnippet
{
    public class SubmitTextCensorJobModel {

      private CosXml cosXml;

      SubmitTextCensorJobModel() {
        CosXmlConfig config = new CosXmlConfig.Builder()
          .SetRegion("COS_REGION") // Set the default region. For abbreviations of
          .Build();

        string secretId = "SECRET_ID";    // SecretId of the TencentCloud API. For m
        string secretKey = "SECRET_KEY"; // SecretKey of the TencentCloud API. For
        long durationSecond = 600;          // Validity period of the request signa
        QCloudCredentialProvider qCloudCredentialProvider = new DefaultQCloudCreden
          secretKey, durationSecond);

        this.cosXml = new CosXmlServer(config, qCloudCredentialProvider);
      }

      /// Query the text moderation job result
      public void GetTextCensorJobResult(string JobId)
      {
        // Bucket name in the format of `BucketName-APPID`. You can get APPID by re
        string bucket = "examplebucket-1250000000"; // Note: To perform this operat
        GetTextCensorJobRequest request = new GetTextCensorJobRequest(bucket, JobId
        // Execute the request
        GetTextCensorJobResult result = cosXml.GetTextCensorJob(request);
        Console.WriteLine(result.GetResultInfo());

        // Read the moderation result
        Console.WriteLine(result.resultStruct.JobsDetail.JobId);
        Console.WriteLine(result.resultStruct.JobsDetail.State);
        Console.WriteLine(result.resultStruct.JobsDetail.CreationTime);
        Console.WriteLine(result.resultStruct.JobsDetail.Object);
        Console.WriteLine(result.resultStruct.JobsDetail.SectionCount);
        Console.WriteLine(result.resultStruct.JobsDetail.Result);

        Console.WriteLine(result.resultStruct.JobsDetail.PornInfo.HitFlag);
        Console.WriteLine(result.resultStruct.JobsDetail.PornInfo.Count);
```

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```
            Console.WriteLine(result.resultStruct.JobsDetail.AdsInfo.HitFlag);
            Console.WriteLine(result.resultStruct.JobsDetail.AdsInfo.Count);

            // Information of text sections
            for(int i = 0; i < result.resultStruct.JobsDetail.Section.Count; i++)
            {
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].StartByte);
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].PornInfo.Hi
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].PornInfo.Sc
                Console.WriteLine(result.resultStruct.JobsDetail.Section[i].PornInfo.Ke
            }
        }

        static void Main(string[] args)
        {
            SubmitTextCensorJobModel m = new SubmitTextCensorJobModel();
            // Enter the `JobId` obtained when you submit the text moderation job
            string JobId = "xxx";
            // Query the moderation job result
            m.GetTextCensorJobResult(JobId);
        }
    }
}
```

Note:

For more complete samples, visit GitHub.

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Go SDK
Getting Started

Last updated：2024-02-29 16:52:32

Download and Installation

Relevant resources

Download the source code for the COS XML Go SDK here.
Download the demo here.
For more information, see GitHub.
For the complete sample code, see SDK Sample Code.
For the SDK changelog, see Changelog.
For SDK FAQs, see Go SDK.

Note:
If you encounter errors such as non-existent functions or methods when using the SDK, you can update the SDK to the latest version and try again.

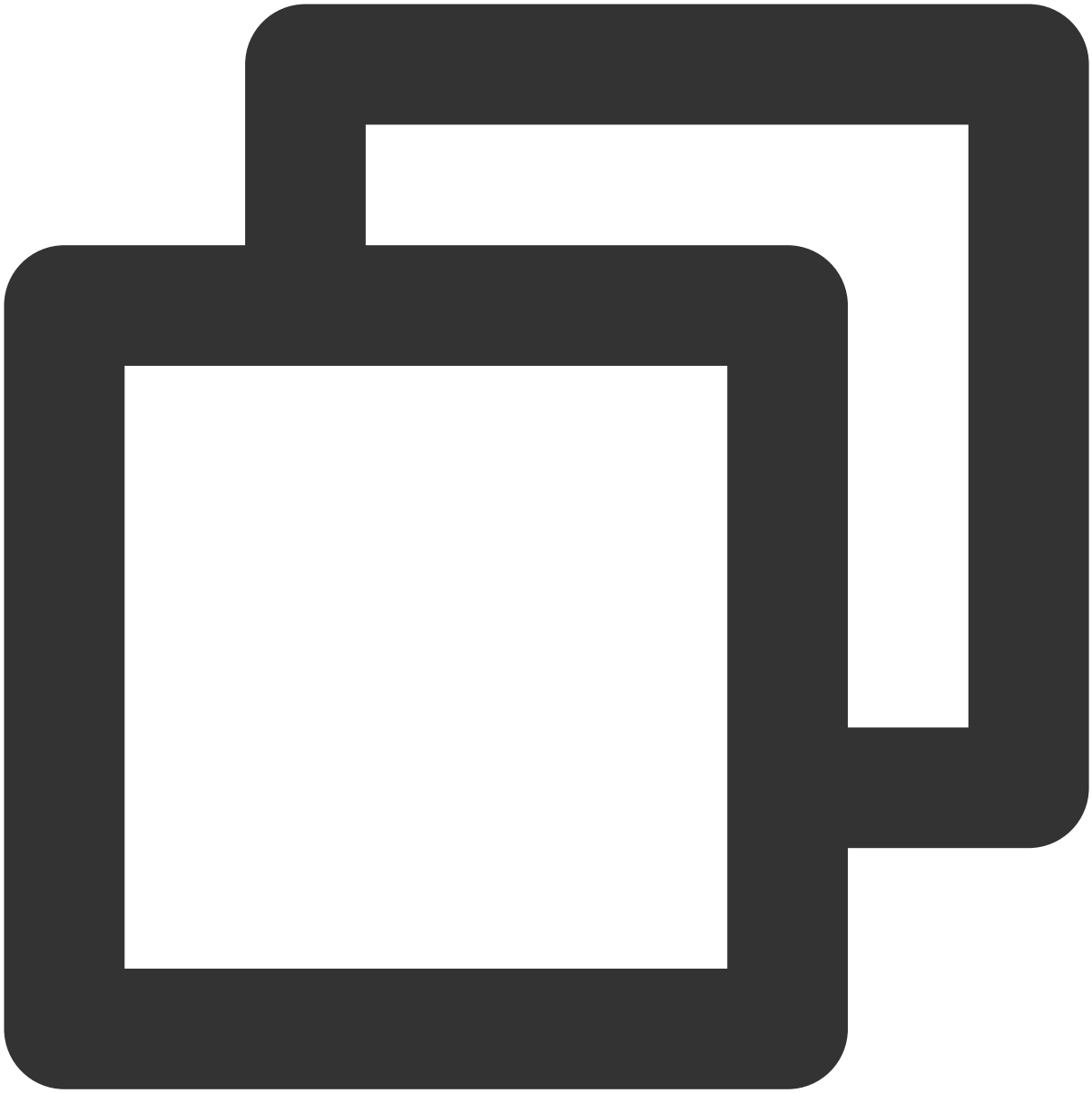
Environmental dependencies

Golang is used to download and install the Go operating environment; it can be downloaded from the Golang official website.

Installing SDK

Execute the following command to install the COS Go SDK:

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```
go get -u github.com/tencentyun/cos-go-sdk-v5
```

Getting Started

The section below describes how to use the COS Go SDK to perform basic operations, such as initializing a client, creating a bucket, querying a bucket list, uploading an object, querying an object list, downloading an object, or deleting an object.

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Initialization

Note:

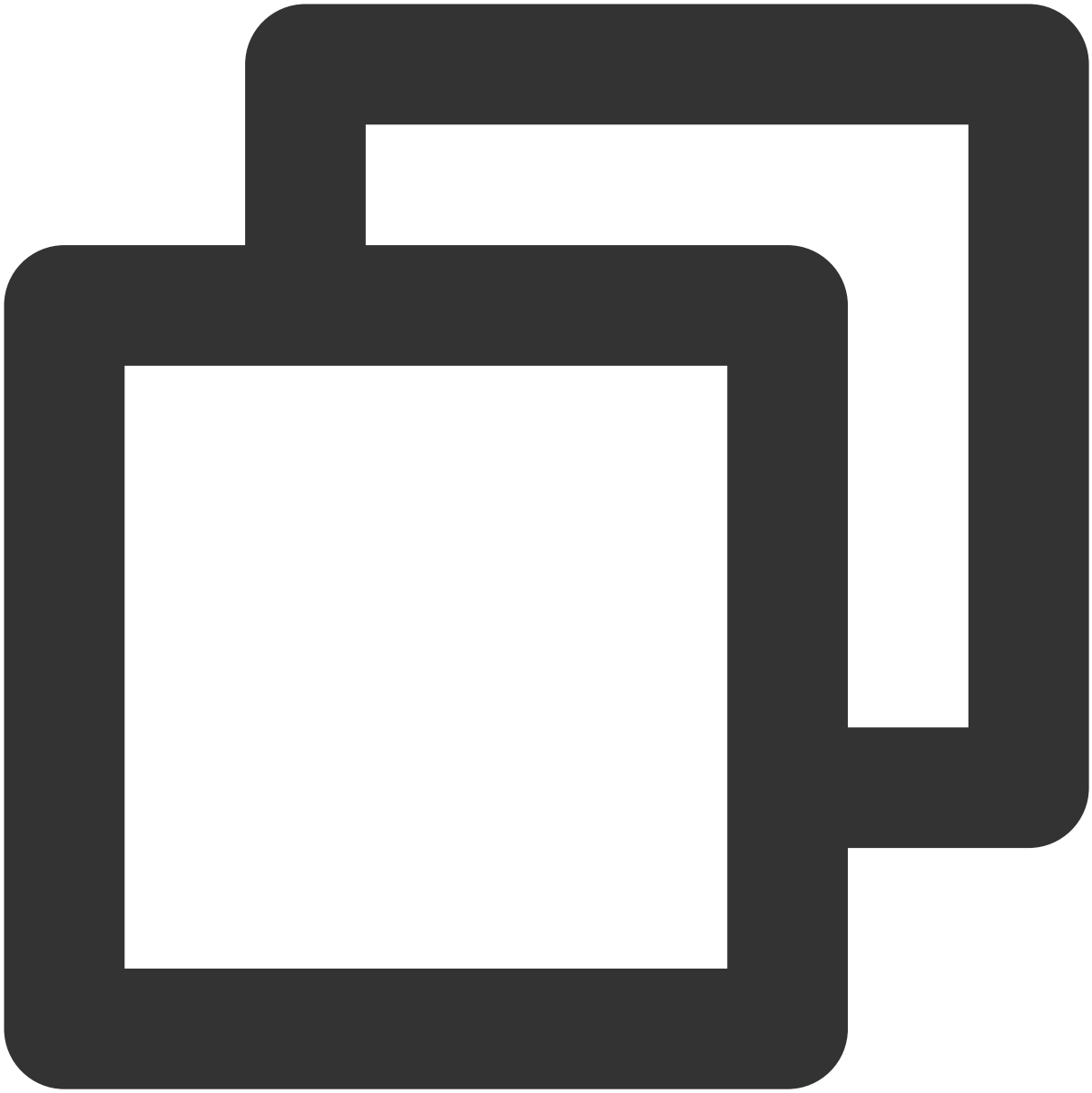
We recommend you use a sub-account key and environment variables to call the SDK for security purposes. When authorizing a sub-account, follow the Notes on Principle of Least Privilege to avoid leaking resources besides your buckets and objects.

If you must use a permanent key, we recommend you follow the Notes on Principle of Least Privilege to limit the scope of permission on the permanent key.

A COS GO client is generated using the COS domain name.

Method prototype

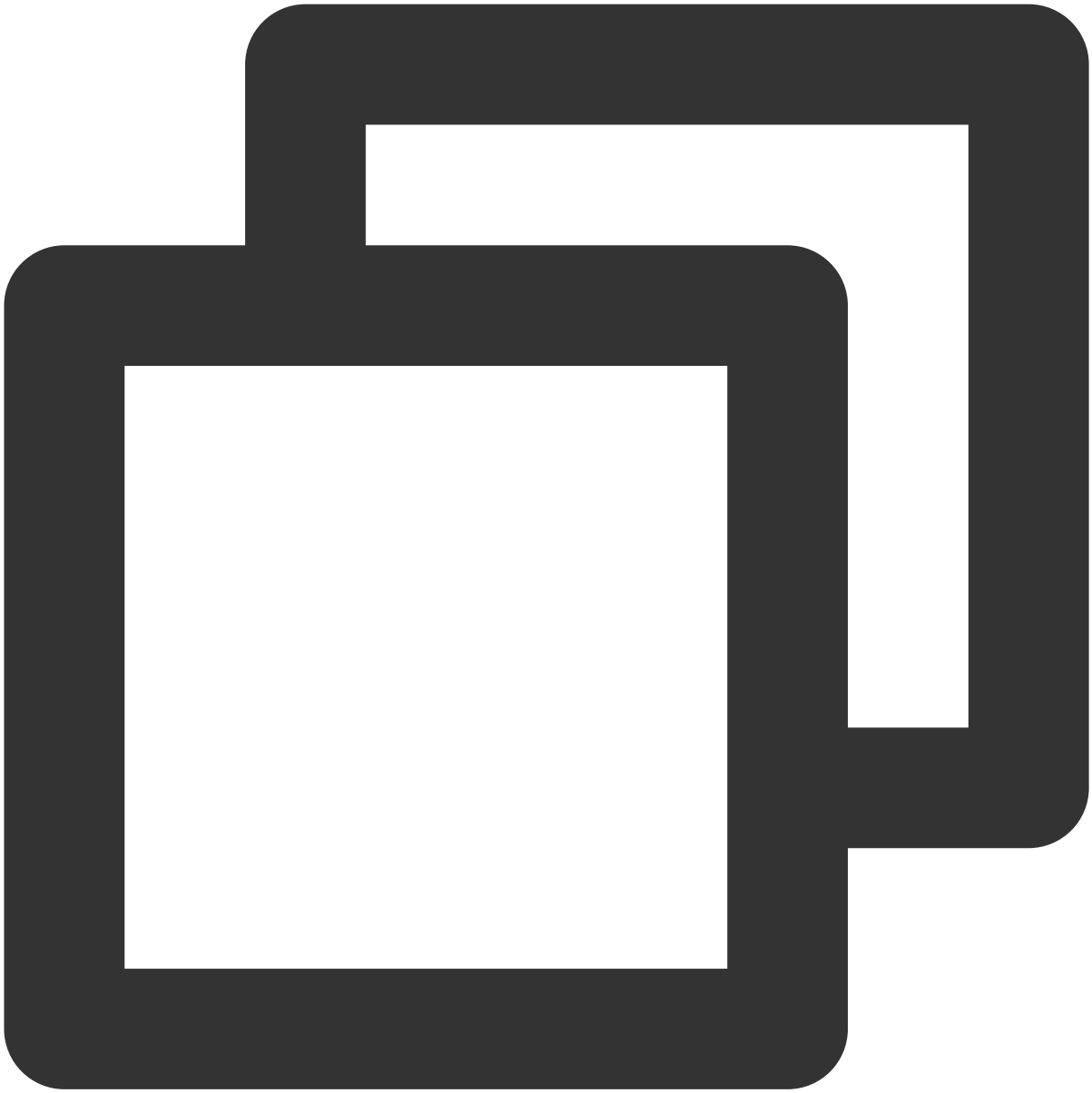
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```
func NewClient(uri *BaseURL, httpClient *http.Client) *Client
```

Field description

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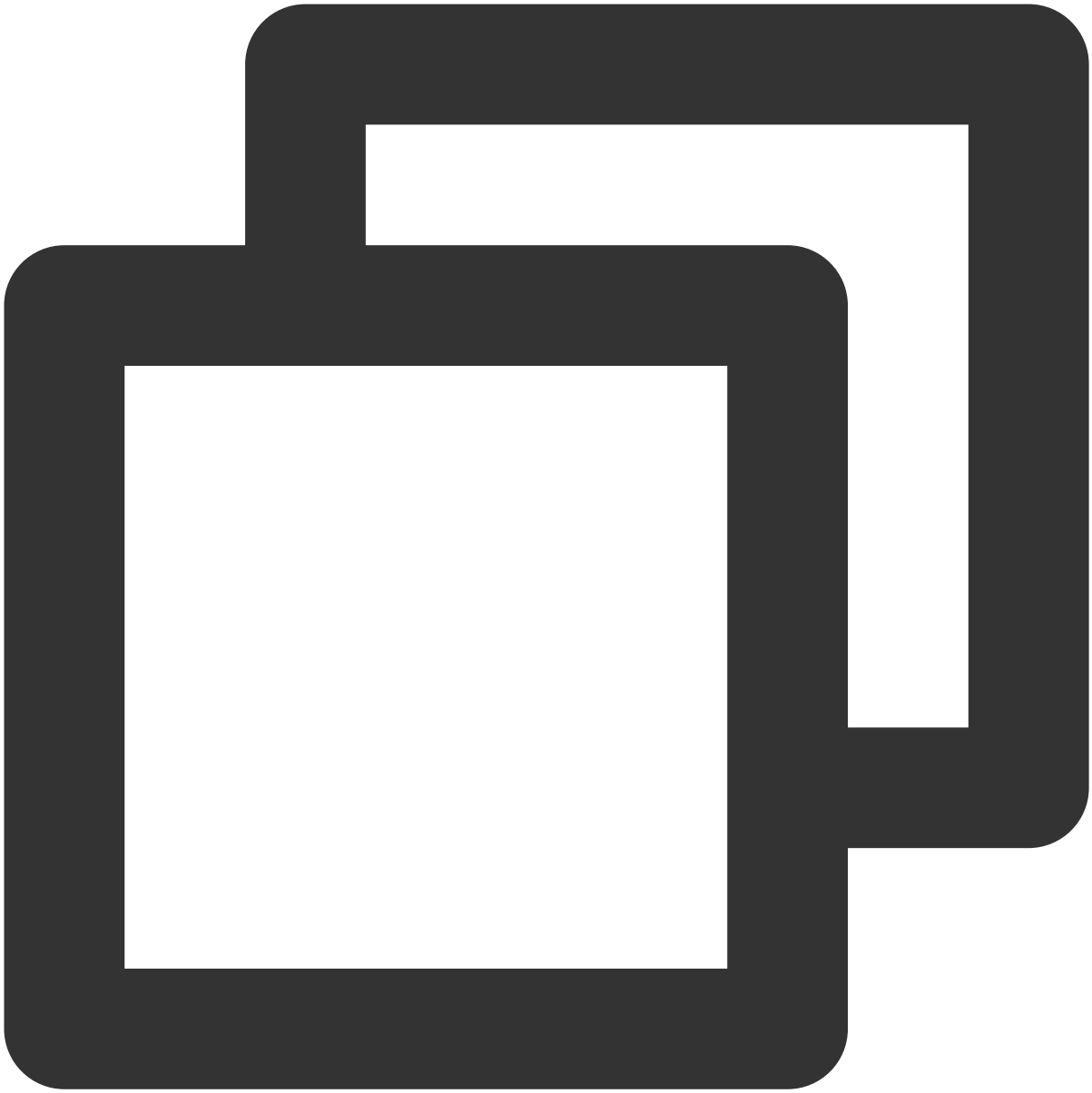
```
// `BaseURL` indicates the base URL required for accessing APIs
type BaseURL struct {
    // Base URL (excluding `path`) for accessing bucket and object related APIs: ht
    BucketURL *url.URL
    // Base URL (excluding `path`) for accessing service APIs: https://cos.<Region>
    ServiceURL *url.URL
    // Base URL (excluding `path`) for accessing batch APIs: https://<UIN>.cos-cont
    BatchURL *url.URL
    // Base URL (excluding `path`) for accessing CI: https://examplebucket-12500000
    CIURL *url.URL
}
```

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Parameter	Description	Type	Required
BucketURL	Base URL (excluding `path`) for accessing bucket and object related APIs	String	Yes
ServiceURL	Base URL (excluding `path`) for accessing service APIs	String	No
BatchURL	Base URL (excluding `path`) for accessing batch APIs	String	No
CIURL	Base URL (excluding `path`) for accessing CI	String	No

Sample request 1: using a permanent key

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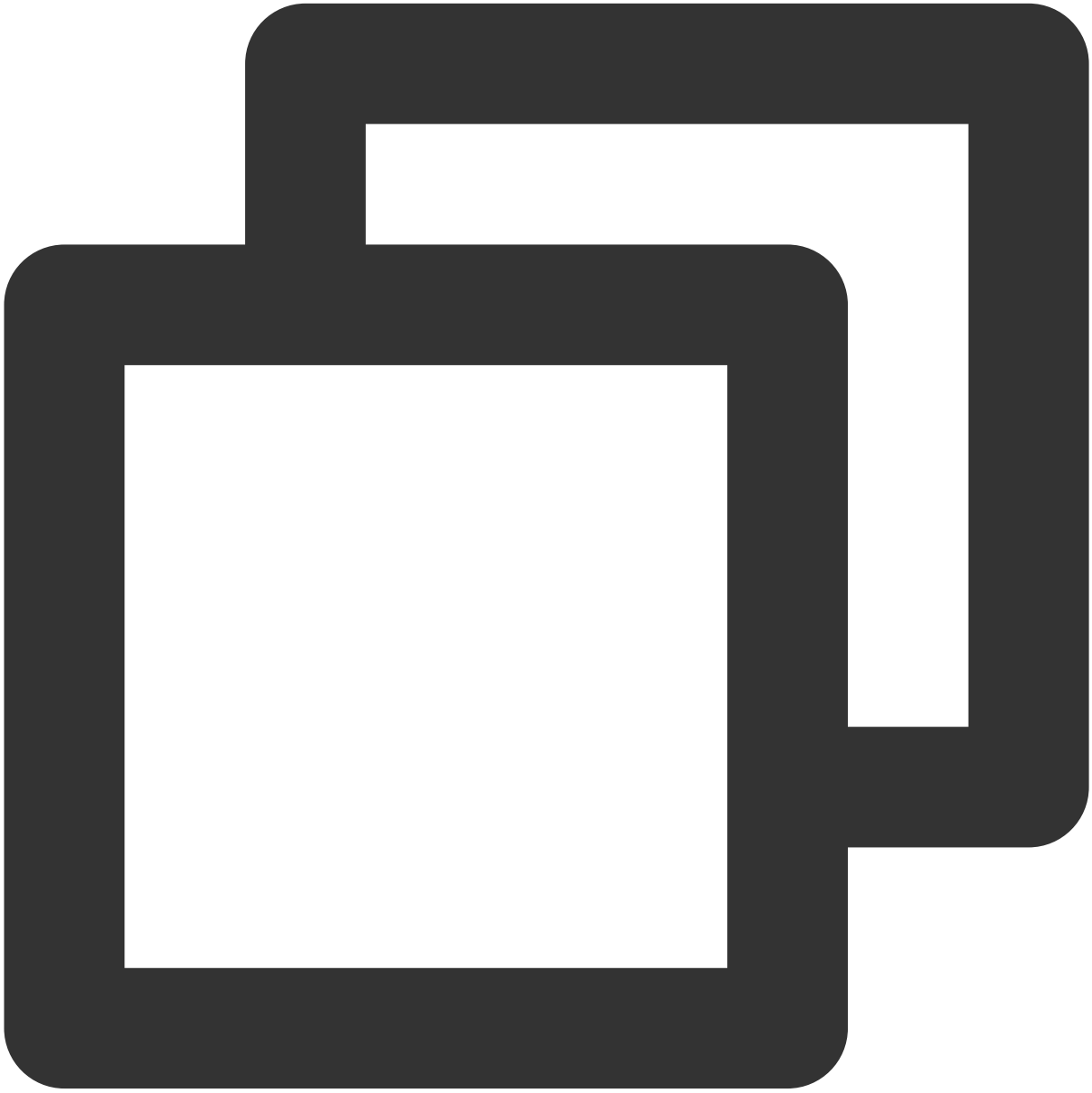


```
// Replace `examplebucket-1250000000` and `COS_REGION` with the actual information
// Bucket name in the format of `BucketName-APPID` (`APPID` is required), which can
// `COS_REGION` can be viewed in the COS console at https://console.intl.cloud.tenc
u, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
// The following calls the `Get Service` API. By default, all regions (service.cos.
su, _ := url.Parse("https://cos.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: u, ServiceURL: su}
// 1. Permanent key
client := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
        SecretID: os.Getenv("SECRETID"),  // User `SecretId`. We recommend you use
```

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```
        SecretKey: os.Getenv("SECRETKEY"),  // User `SecretKey`. We recommend you u
    },
})
```

Sample request 2: using a temporary key



```
// Replace `examplebucket-1250000000` and `COS_REGION` with the actual information
// Bucket name in the format of `BucketName-APPID` (`APPID` is required), which can
// `COS_REGION` can be viewed in the COS console at https://console.intl.cloud.tenc
u, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: u}
```

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```
// 2. Temporary key
client := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
        // If a temporary key is required, see the instructions at https://intl.clo
        SecretID:     "SECRETID",
        SecretKey:    "SECRETKEY",
        SessionToken: "SECRETTOKEN",
    },
})
if client != nil {
    // Call the COS request
}
```

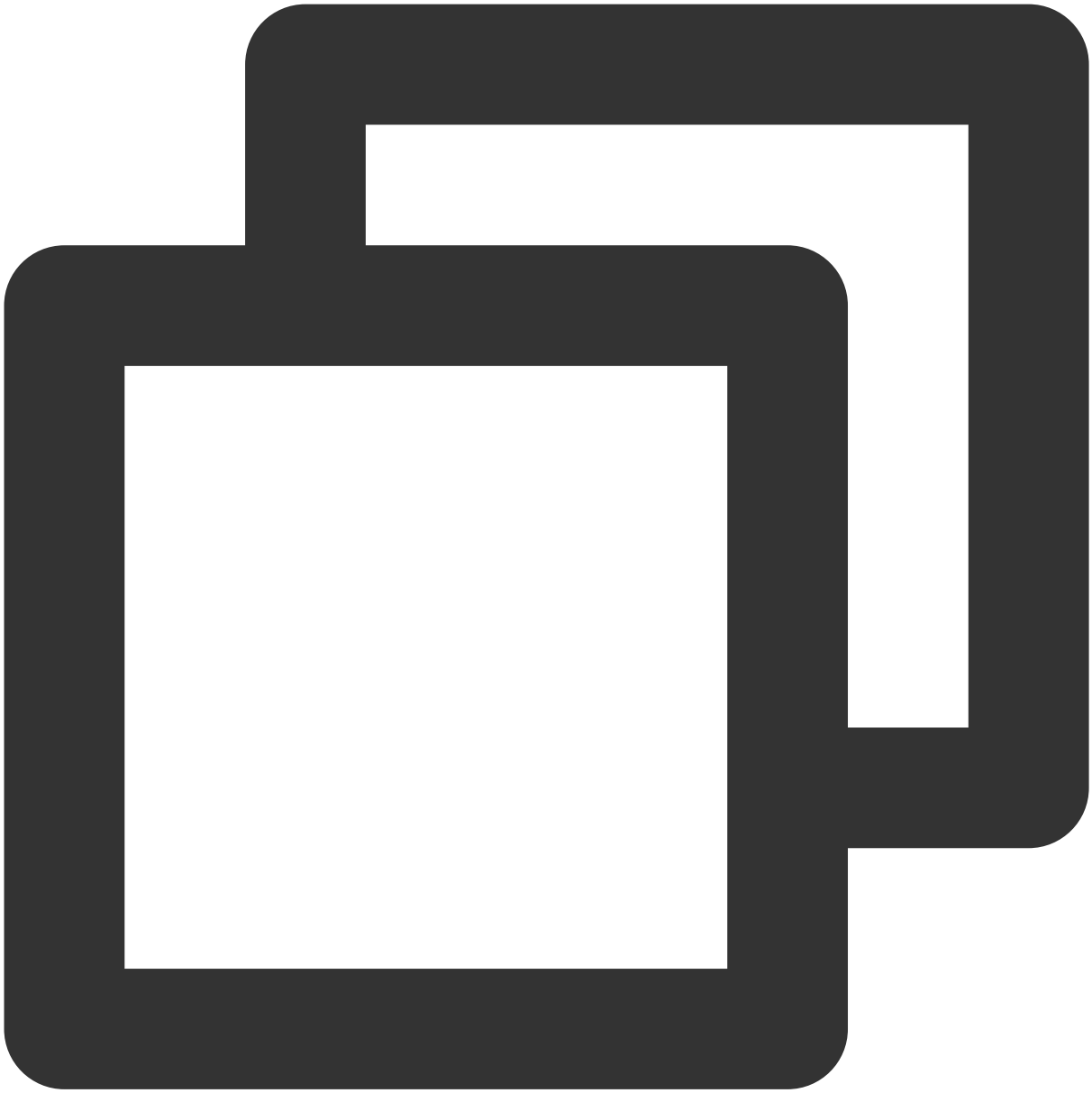
Note:

For more information about how to generate and use a temporary key, see Generating and Using Temporary Keys.

Sample request 3: setting a domain name

By modifying `BaseURL`, you can directly use a custom domain name or global acceleration domain name to access COS.

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```
// Use a global acceleration domain name to access COS
u, _ := url.Parse("http://<BucketName-APPID>.cos.accelerate.myqcloud.com")
b := &cos.BaseURL{BucketURL: u}
// 2. Temporary key
client := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
        // If a temporary key is required, see the instructions at https://intl.clo
        SecretID:     "SECRETID",
        SecretKey:    "SECRETKEY",
        SessionToken: "SECRETTOKEN",
    },
```

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```
})
```

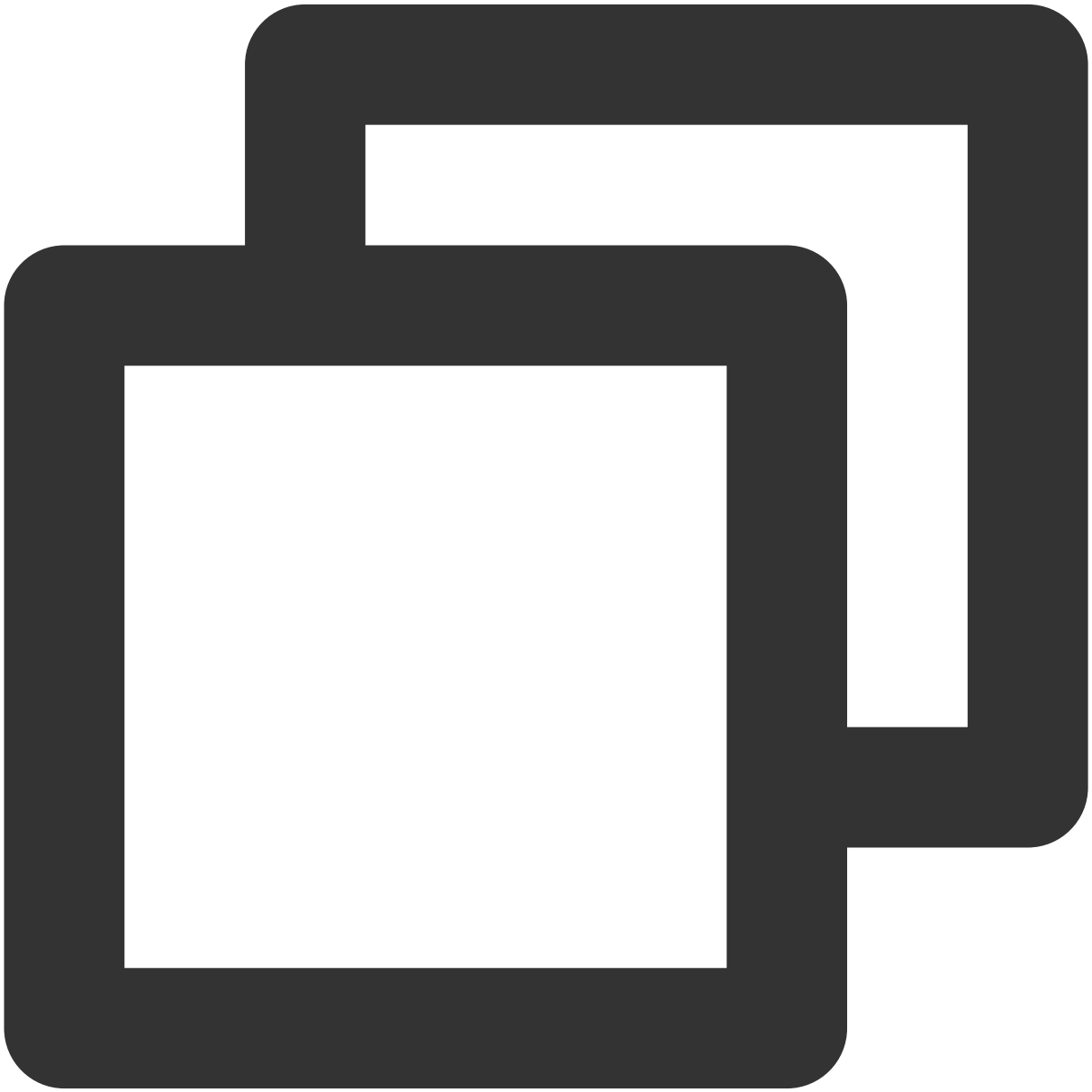
Sample request 4: CRC64 verification

By default, CRC64 verification is enabled in the COS Go SDK for the uploaded objects.

Note:

The COS Go SDK version should be or later than v0.7.23.

You are strongly advised not to disable CRC64 verification.



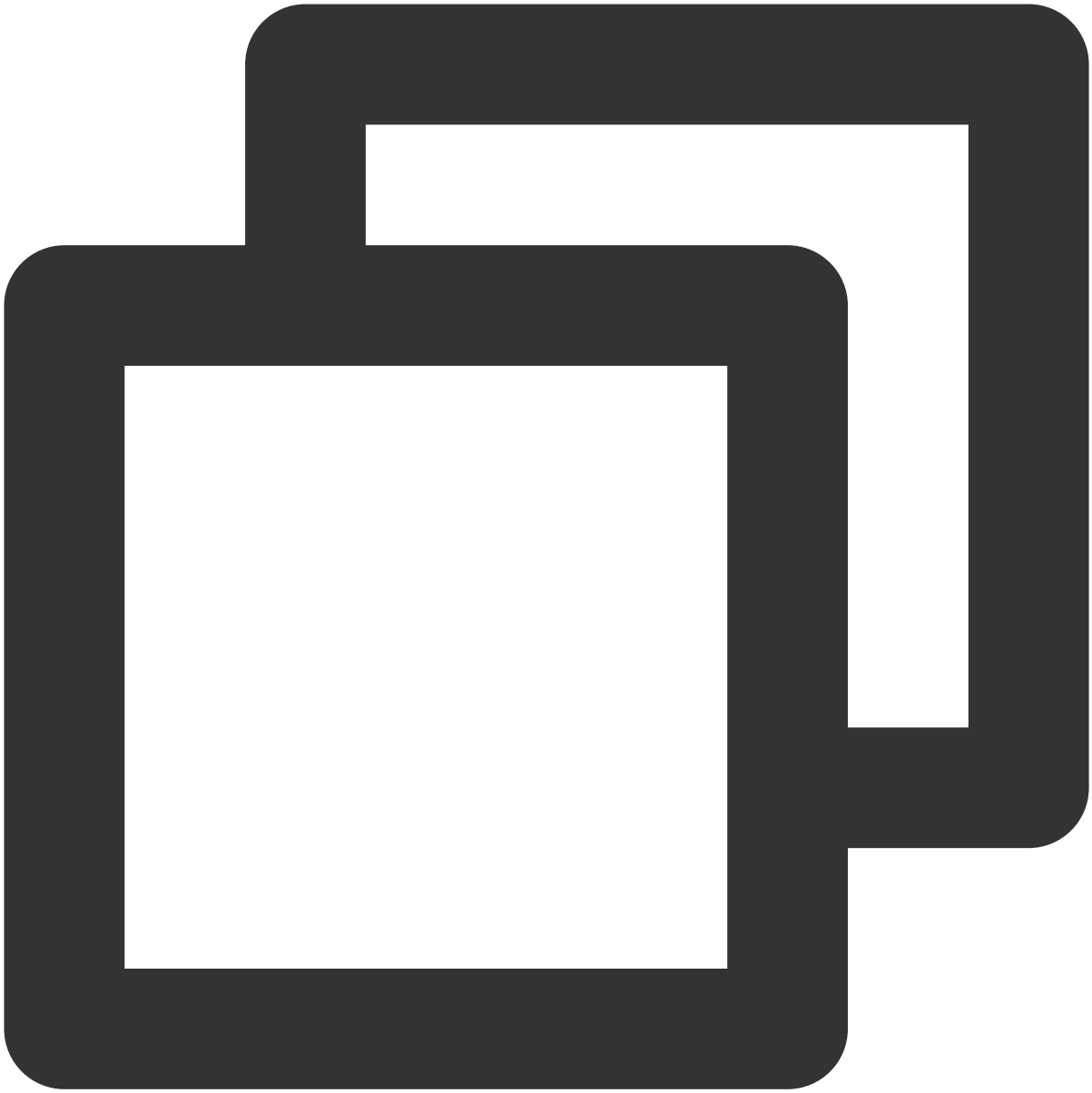
```
// Replace `examplebucket-1250000000` and `COS_REGION` with the actual information
// Bucket name in the format of `BucketName-APPID` (`APPID` is required), which can
```

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```
// `COS_REGION` can be viewed in the COS console at https://console.intl.cloud.tenc
u, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: u}
// 2. Temporary key
client := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
        // If a temporary key is required, see the instructions at https://intl.clo
        SecretID:     "SECRETID",
        SecretKey:    "SECRETKEY",
        SessionToken: "SECRETTOKEN",
    },
})
// Disable CRC64 verification.
client.Conf.EnableCRC = false
```

Creating a bucket

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```
package main


import (
    "context"
    "net/http"
    "net/url"
    "os"


    "github.com/tencentyun/cos-go-sdk-v5"
```

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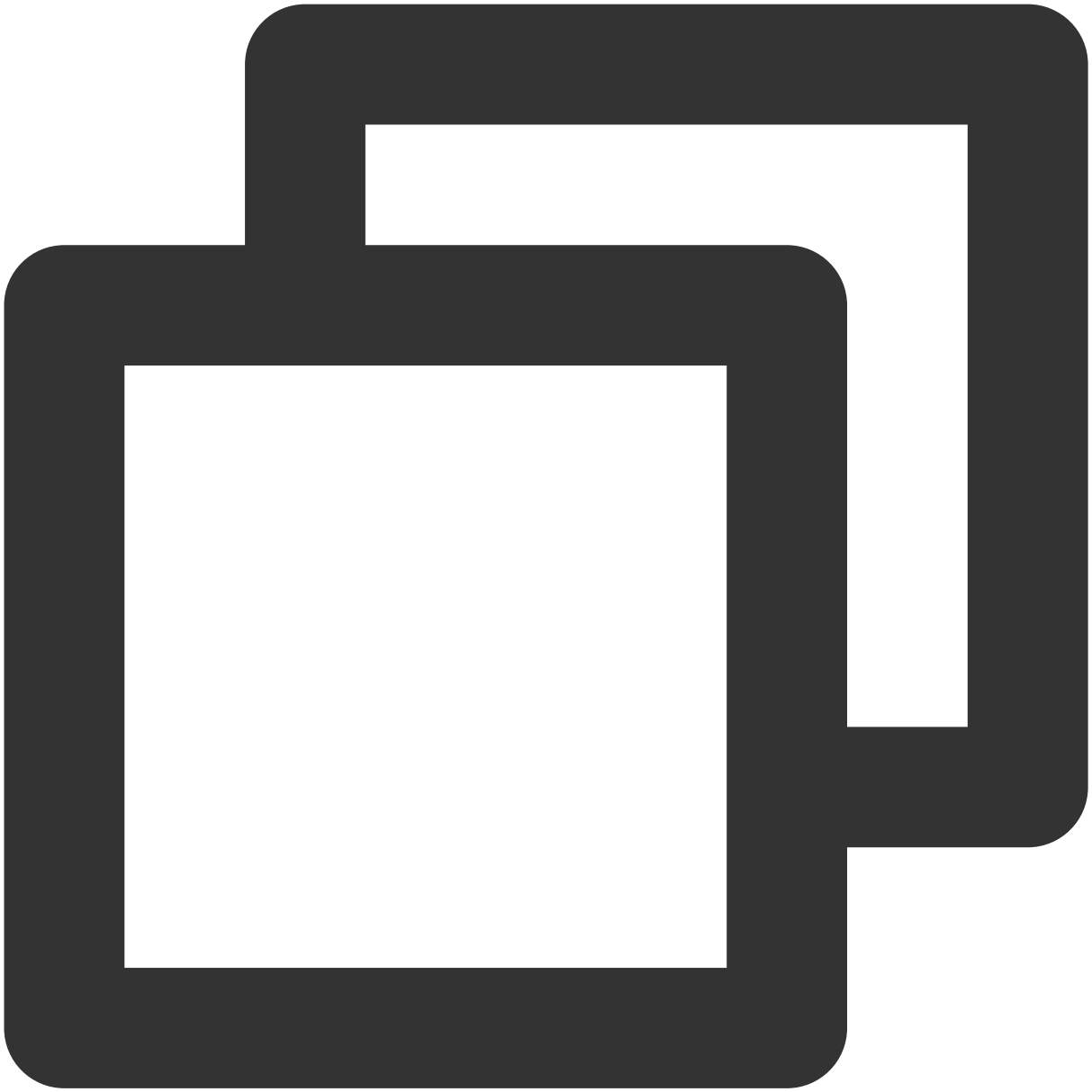
```
)


func main(){
    // Replace `examplebucket-1250000000` and `COS_REGION` with the actual informat
    // Bucket name in the format of `BucketName-APPID` (`APPID` is required), which
    // `COS_REGION` can be viewed in the COS console at https://console.intl.cloud.
    u, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com
    b := &cos.BaseURL{BucketURL: u}
    c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID: os.Getenv("SECRETID"),  // User `SecretId`. We recommend you
            SecretKey: os.Getenv("SECRETKEY"),  // User `SecretKey`. We recommend y
        },
    })


    _, err := c.Bucket.Put(context.Background(), nil)
    if err != nil{
        panic(err)
    }
}
```

Querying the bucket list

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```
package main


import (
    "context"
    "fmt"
    "net/http"
    "os"


    "github.com/tencentyun/cos-go-sdk-v5"
```

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```
)

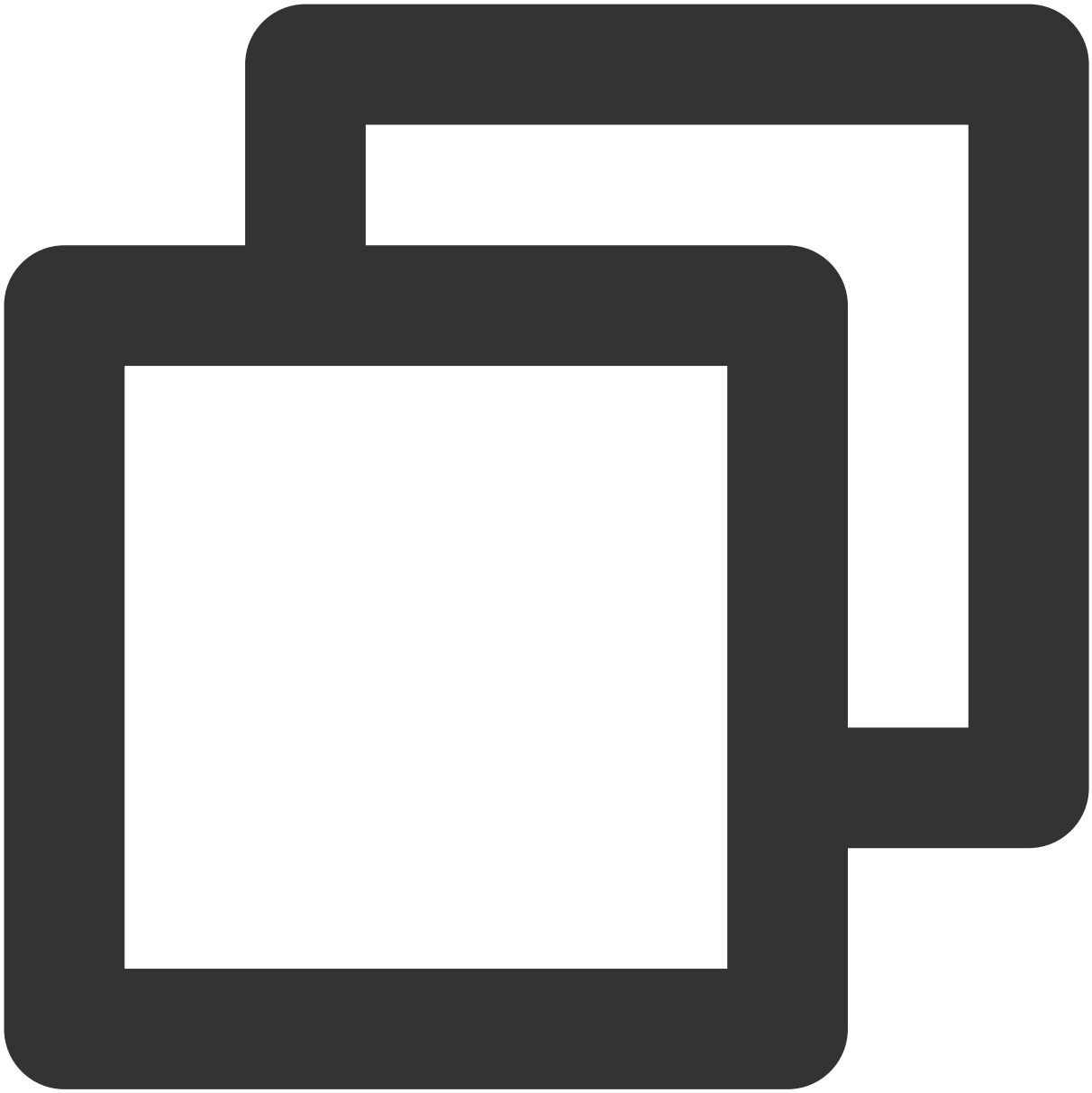

func main(){
    c := cos.NewClient(nil, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID: os.Getenv("SECRETID"),  // User `SecretId`. We recommend you
            SecretKey: os.Getenv("SECRETKEY"),  // User `SecretKey`. We recommend y
        },
    })


    s, _, err := c.Service.Get(context.Background())
    if err != nil{
        panic(err)
    }


    for _, b := range s.Buckets {
        fmt.Printf("%#v\\n", b)
    }
}
```

Uploading an object

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```
package main


import (
    "context"
    "net/http"
    "net/url"
    "os"
    "strings"

    "github.com/tencentyun/cos-go-sdk-v5"
```

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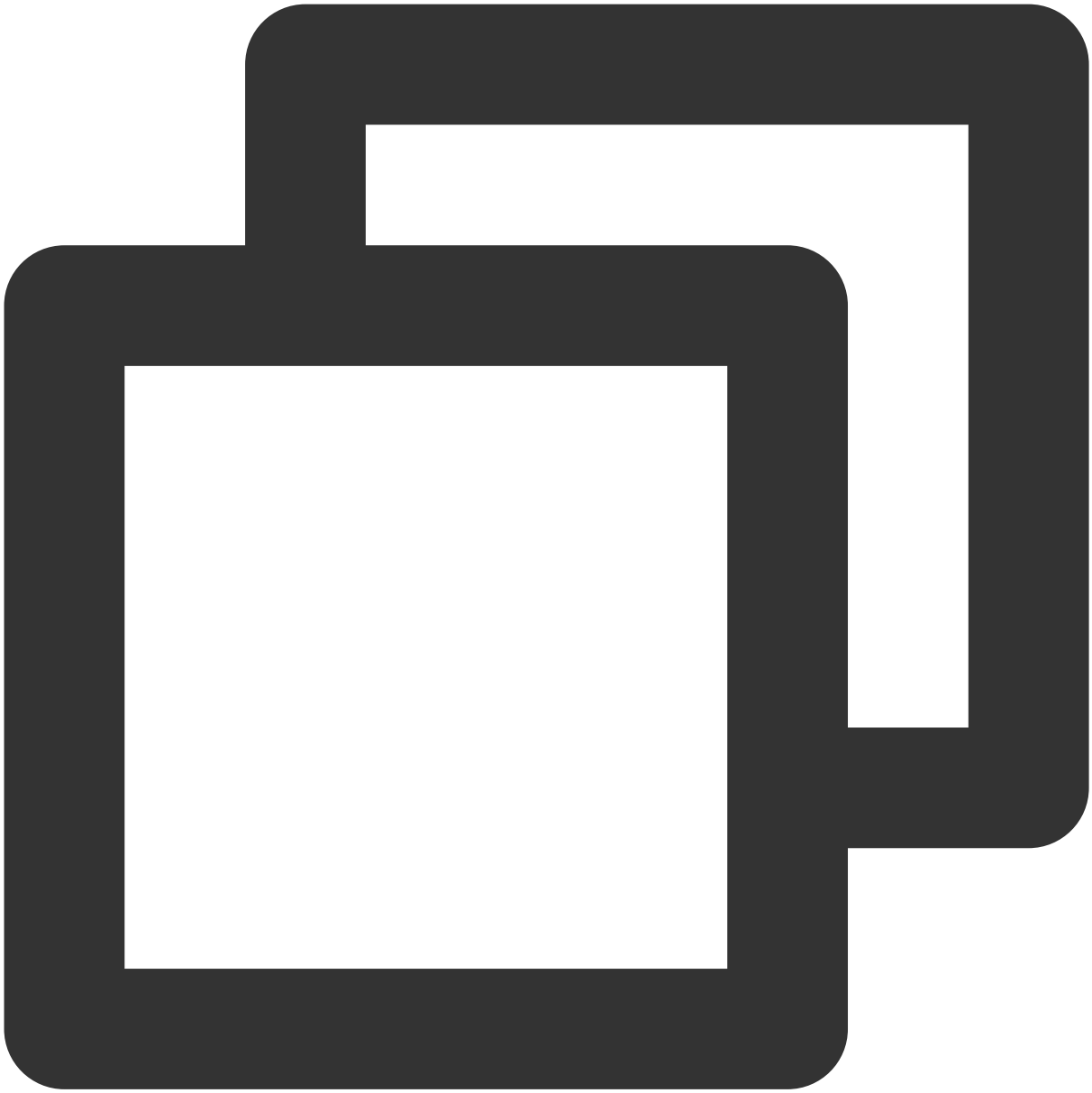
```
)


func main(){
    // Replace `examplebucket-1250000000` and `COS_REGION` with the actual informat
    // Bucket name in the format of `BucketName-APPID` (`APPID` is required), which
    // `COS_REGION` can be viewed in the COS console at https://console.intl.cloud.
    u, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com
    b := &cos.BaseURL{BucketURL: u}
    c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID: os.Getenv("SECRETID"),  // User `SecretId`. We recommend you
            SecretKey: os.Getenv("SECRETKEY"),  // User `SecretKey`. We recommend y
        },
    })
    // An object key is the unique identifier of an object in a bucket
    // For example, in the access domain name `examplebucket-1250000000.cos.COS_REG
    name := "test/objectPut.go"
    // 1. Upload the object with a string.
    f := strings.NewReader("test")


    _, err := c.Object.Put(context.Background(), name, f, nil)
    if err != nil{
        panic(err)
    }
    // 2. Upload the object with a local file.
    _, err = c.Object.PutFromFile(context.Background(), name, "../test", nil)
    if err != nil{
        panic(err)
    }
    // 3. Upload the object with a file stream.
    fd, err := os.Open("./test")
    if err != nil{
        panic(err)
    }
    defer fd.Close()
    _, err = c.Object.Put(context.Background(), name, fd, nil)
    if err != nil{
        panic(err)
    }
}
```

Querying objects

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```
package main


import (
    "context"
    "fmt"
    "net/http"
    "net/url"
    "os"

    "github.com/tencentyun/cos-go-sdk-v5"
```

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```
)

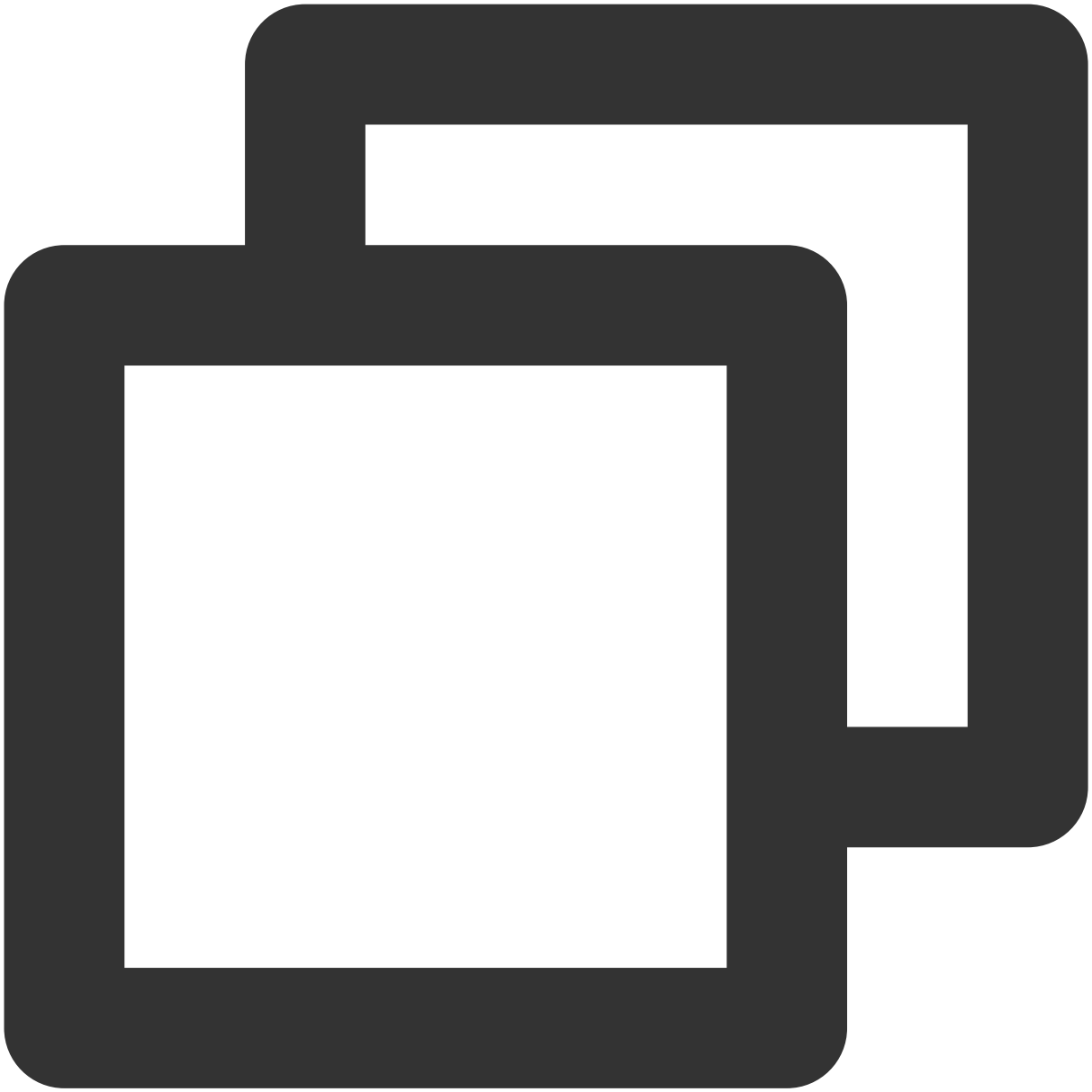

func main(){
    // Replace `examplebucket-1250000000` and `COS_REGION` with the actual informat
    // Bucket name in the format of `BucketName-APPID` (`APPID` is required), which
    // `COS_REGION` can be viewed in the COS console at https://console.intl.cloud.
    u, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com
    b := &cos.BaseURL{BucketURL: u}
    c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID: os.Getenv("SECRETID"),  // User `SecretId`. We recommend you
            SecretKey: os.Getenv("SECRETKEY"),  // User `SecretKey`. We recommend y
        },
    })


    opt := &cos.BucketGetOptions{
        Prefix:  "test",
        MaxKeys: 3,
    }
    v, _, err := c.Bucket.Get(context.Background(), opt)
    if err != nil{
        panic(err)
    }


    for _, c := range v.Contents {
        fmt.Printf("%s, %d\\n", c.Key, c.Size)
    }
}
```

Download an object

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```
package main


import (
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"
    "os"
```

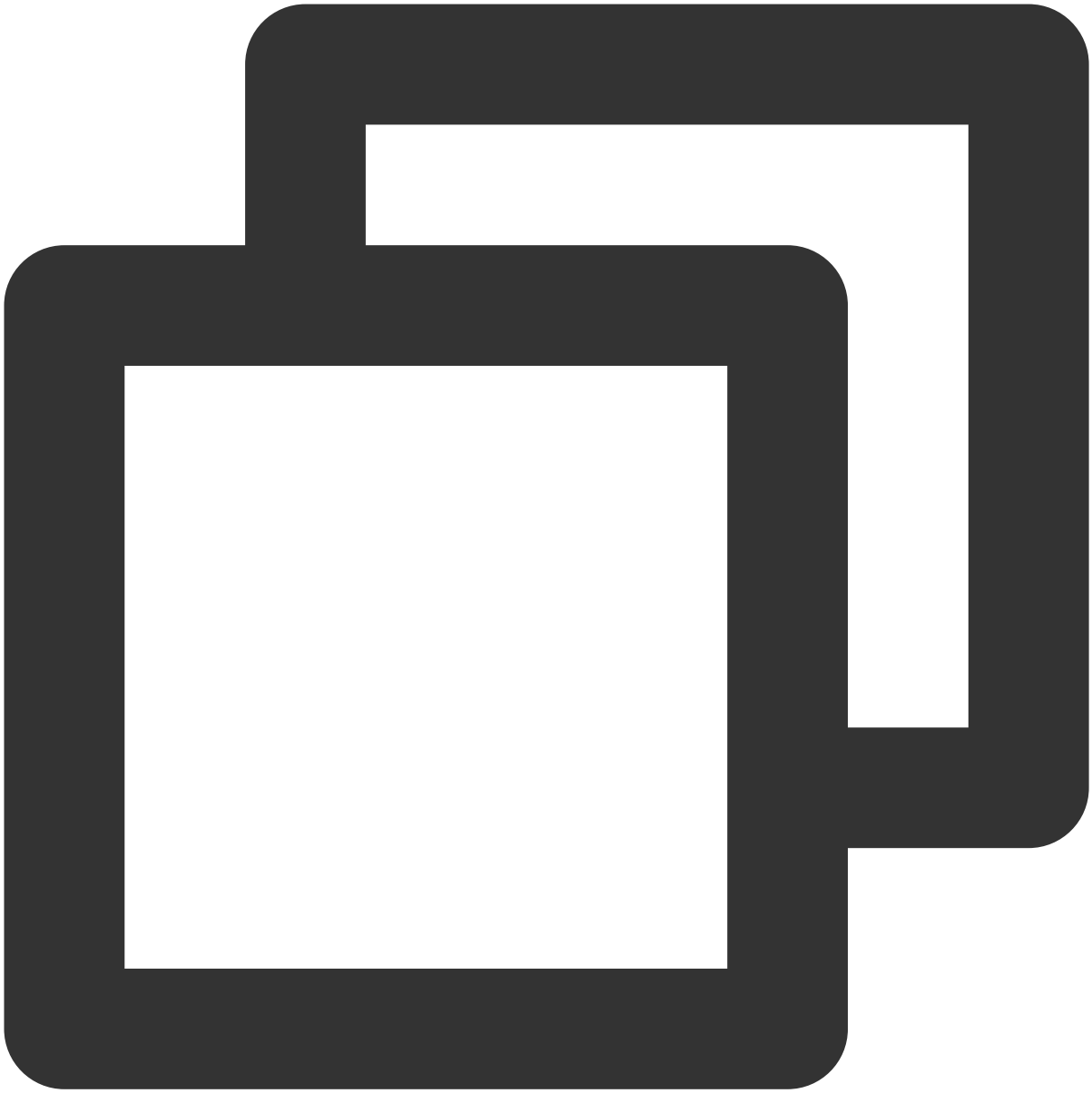
©2013-2022 Tencent Cloud. All rights reserved.

```
    "github.com/tencentyun/cos-go-sdk-v5"
)


func main(){
    // Replace `examplebucket-1250000000` and `COS_REGION` with the actual informat
    // Bucket name in the format of `BucketName-APPID` (`APPID` is required), which
    // `COS_REGION` can be viewed in the COS console at https://console.intl.cloud.
    u, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com
    b := &cos.BaseURL{BucketURL: u}
    c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID: os.Getenv("SECRETID"),  // User `SecretId`. We recommend you
            SecretKey: os.Getenv("SECRETKEY"),  // User `SecretKey`. We recommend y
        },
    })
    // 1. Obtain the object through response body
    name := "test/objectPut.go"
    resp, err := c.Object.Get(context.Background(), name, nil)
    if err != nil{
        panic(err)
    }
    bs, _ := ioutil.ReadAll(resp.Body)
    resp.Body.Close()
    fmt.Printf("%s\\n", string(bs))
    // 2. Download the object to the local file system
    _, err = c.Object.GetToFile(context.Background(), name, "exampleobject", nil)
    if err != nil{
        panic(err)
    }
}
```

Deleting an object

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```
package main


import (
    "context"
    "net/http"
    "net/url"
    "os"

    "github.com/tencentyun/cos-go-sdk-v5"
)
```

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```
func main(){
    // Replace `examplebucket-1250000000` and `COS_REGION` with the actual informat
    // Bucket name in the format of `BucketName-APPID` (`APPID` is required), which
    // `COS_REGION` can be viewed in the COS console at https://console.intl.cloud.
    u, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com
    b := &cos.BaseURL{BucketURL: u}
    c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID: os.Getenv("SECRETID"),  // User `SecretId`. We recommend you
            SecretKey: os.Getenv("SECRETKEY"),  // User `SecretKey`. We recommend y
        },
    })
    name := "test/objectPut.go"
    _, err := c.Object.Delete(context.Background(), name)
    if err != nil{
        panic(err)
    }
}
```

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Image Processing
Persistent Image Processing

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for persistent image processing.

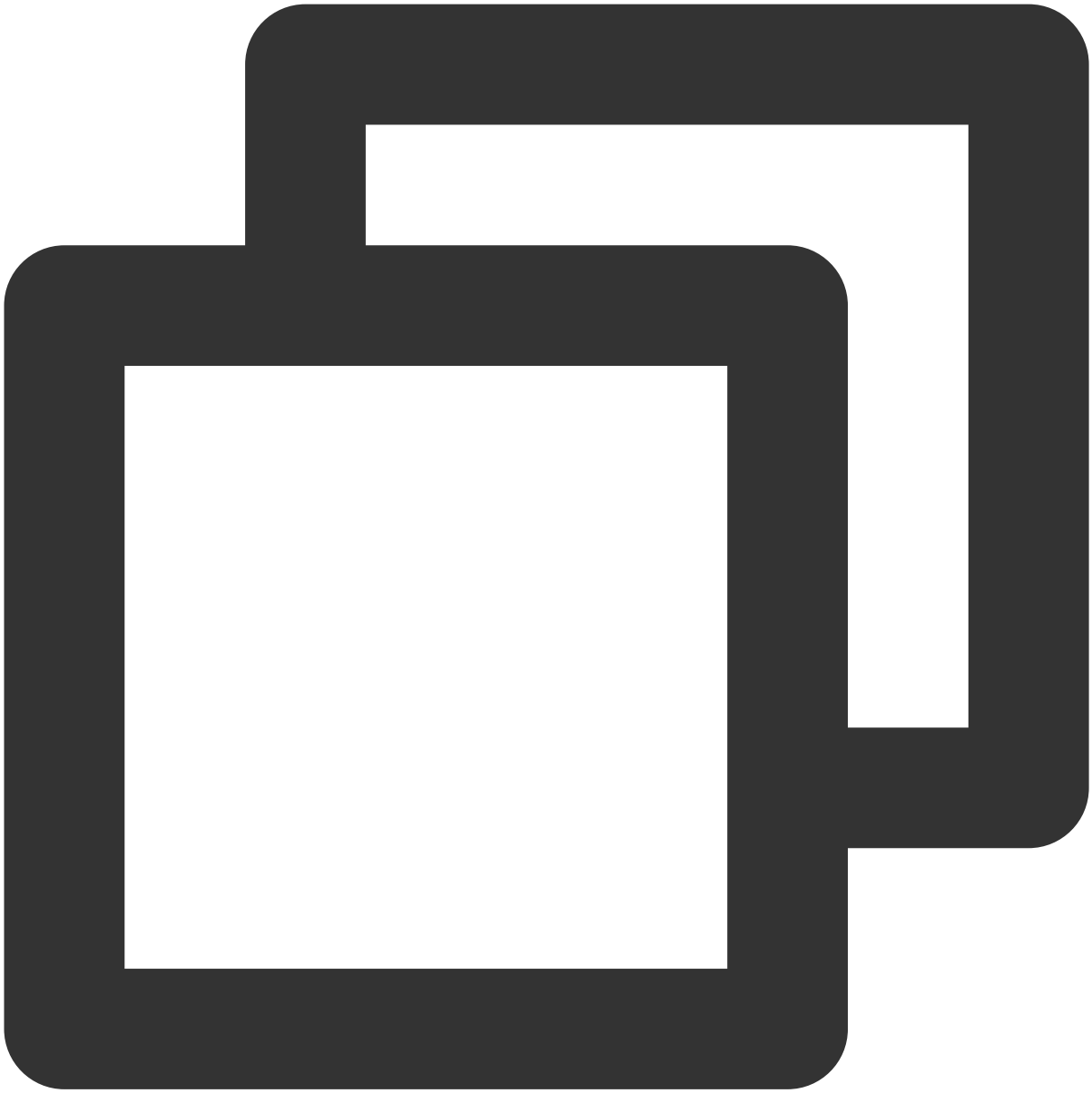
API	Description
Persistent image processing	Processes images persistently.

Processing During Upload

COS allows you to process images during upload. To enable this, add `Pic-Operations` to the request header and set relevant parameters. You can also save the input images and processing results to COS. Currently, images within 20 MB can be processed.

Sample request

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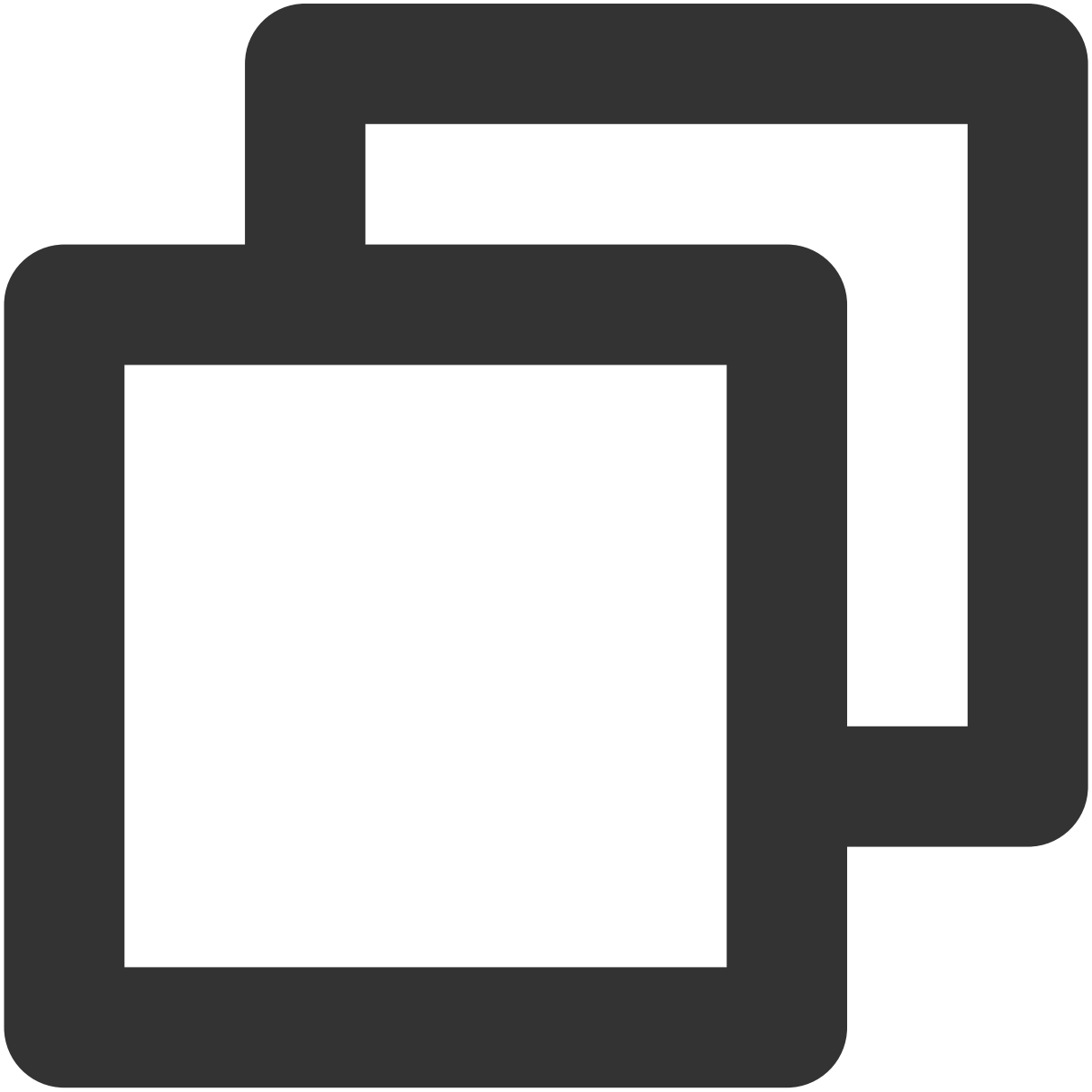


```
opt := &cos.ObjectPutOptions{
        nil,
        &cos.ObjectPutHeaderOptions{
            XOptionHeader: &http.Header{},
        },
}
pic := &cos.PicOperations{
    IsPicInfo: 1,
    Rules: []cos.PicOperationsRules{
        {
            FileId: "format.jpg",
```

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```
            Rule:   "imageView2/format/png",
        },
    },
}
opt.XOptionHeader.Add("Pic-Operations", cos.EncodePicOperations(pic))
name := "test.jpg"
local_filename := "./test.jpg"
res, _, err := c.CI.PutFromFile(context.Background(), name, local_filename, opt)
```

Parameter description



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```
type PicOperations struct {
    IsPicInfo int
    Rules     []PicOperationsRules
}
type PicOperationsRules struct {
    Bucket string
    FileId string
    Rule   string
}
```

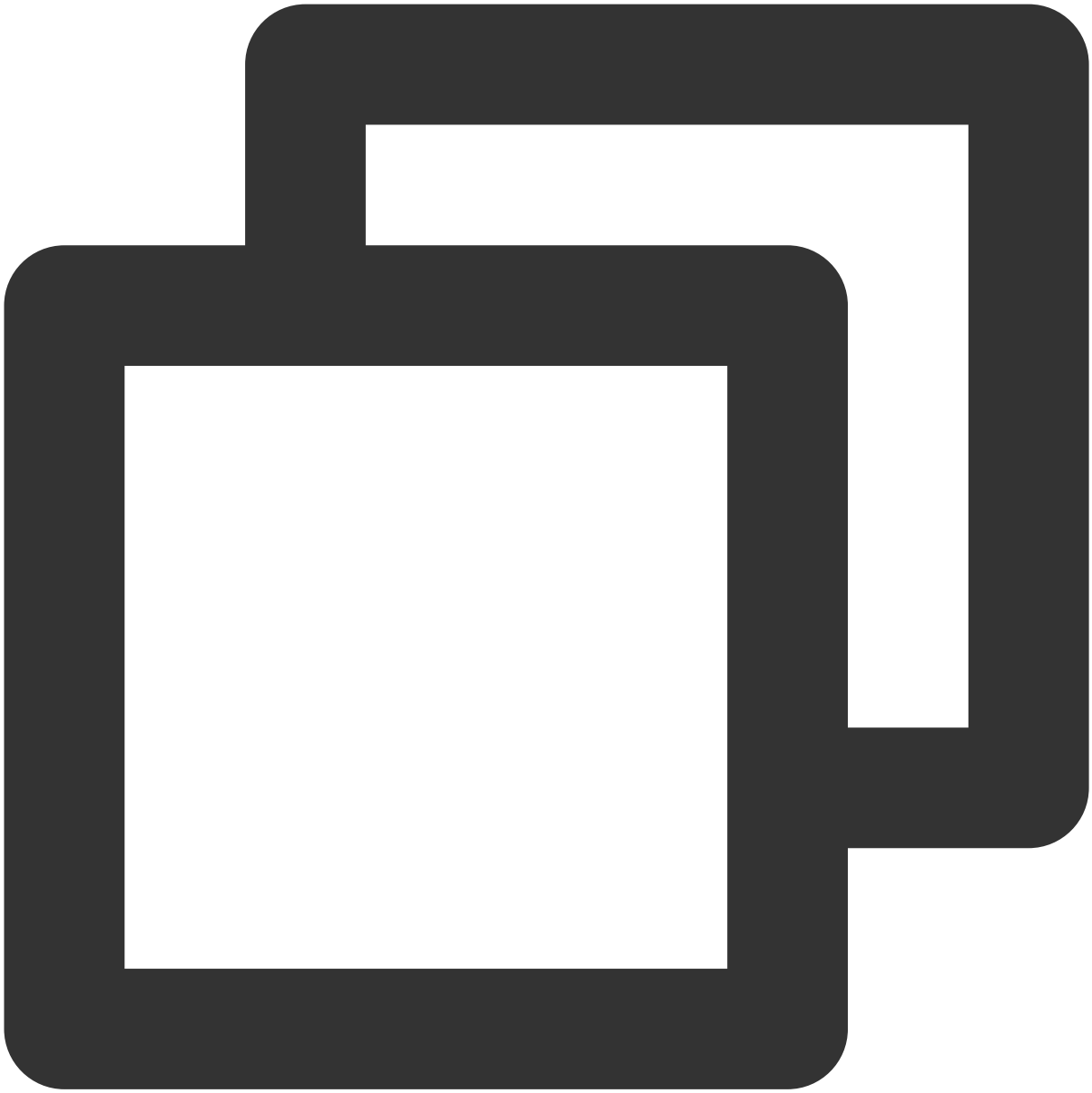
Parameter	Description	Type	Required
IsPicInfo	Whether to return the input image information. Valid values: 0 (no), 1 (yes). Default value: 0.	int	No
Rules	Processing rules (up to five rules are supported). Each rule corresponds to one processing result. If this parameter is not specified, images will not be processed.	Array	No
Bucket	Name of the destination bucket to store the results in the format of `BucketName-APPID`. If this parameter is not specified, the results will be stored in the current bucket by default.	String	No
FileId	Path of the processing result file. If the path starts with `/`, the result file will be stored in the specified folder; otherwise, it will be stored in the same directory as the input image file.	string	Yes
Rule	Processing parameters. For more information, see the persistent image processing API. To process an image with 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	No

Processing In-Cloud Data

This API is used to process an image stored in COS and save the processing result to COS.

Sample request

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```
opt := &cos.ImageProcessOptions{
    IsPicInfo: 1,
    Rules: []cos.PicOperationsRules{
        {
            FileId: "format.jpg",
            Rule:   "imageView2/format/png",
        },
    },
}
name := "test.jpg"
res, _, err := c.CI.ImageProcess(context.Background(), name, opt)
```

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Basic Image Processing

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for basic image processing.

API	Description
Scaling	Scales up/down an image.
Cropping	Crops an image, including regular cropping, scaling and cropping, cropping to circle, rounded corner cropping, and smart face cropping.
Rotation	Rotates an image, including regular rotation and adaptive rotation.
Format conversion	Converts the format of an image, optimizes the GIF format, and performs progressive display.
Quality change	Adjusts the quality of an image.
Gaussian blurring	Blurs an image by a Gaussian function.
Sharpening	Sharpens an image.
Image watermark	Adds a watermark to an image.
Text watermark	Adds a real-time text watermark to an image.
Basic image information acquisition	Queries the basic information of an image, such as format, width, and height.
Image EXIF data acquisition	Queries the EXIF data of an image.
Image average hue acquisition	Queries the average hue of an image.
Metadata removal	Removes the image metadata, including the EXIF data.
Quick thumbnail template	Generates a thumbnail through an image processing template.
Pipeline operator	Performs multiple operations on an image in sequence.

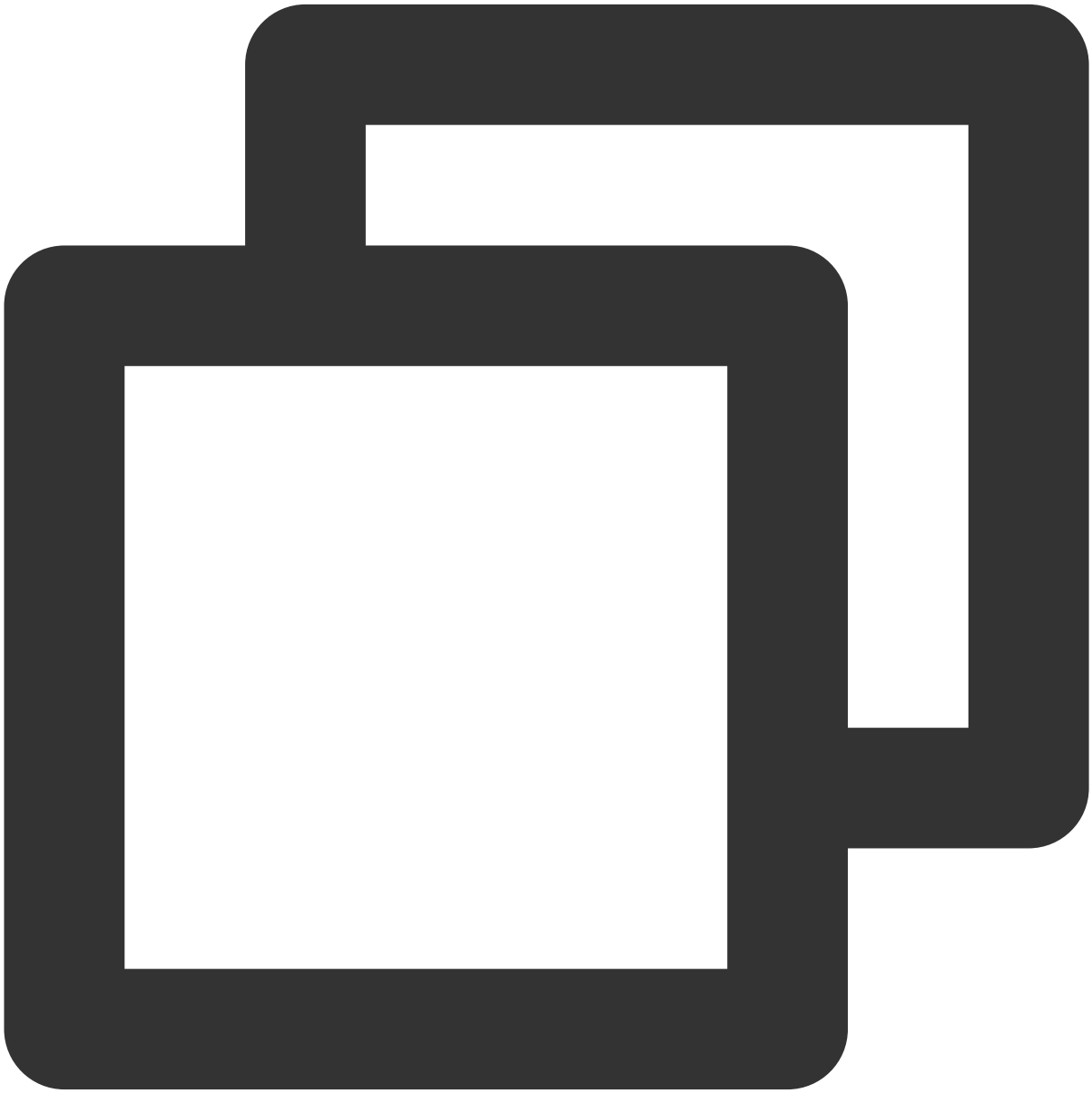
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Scaling

Feature description

CI uses the **imageMogr2** API to scale images.

Method prototype

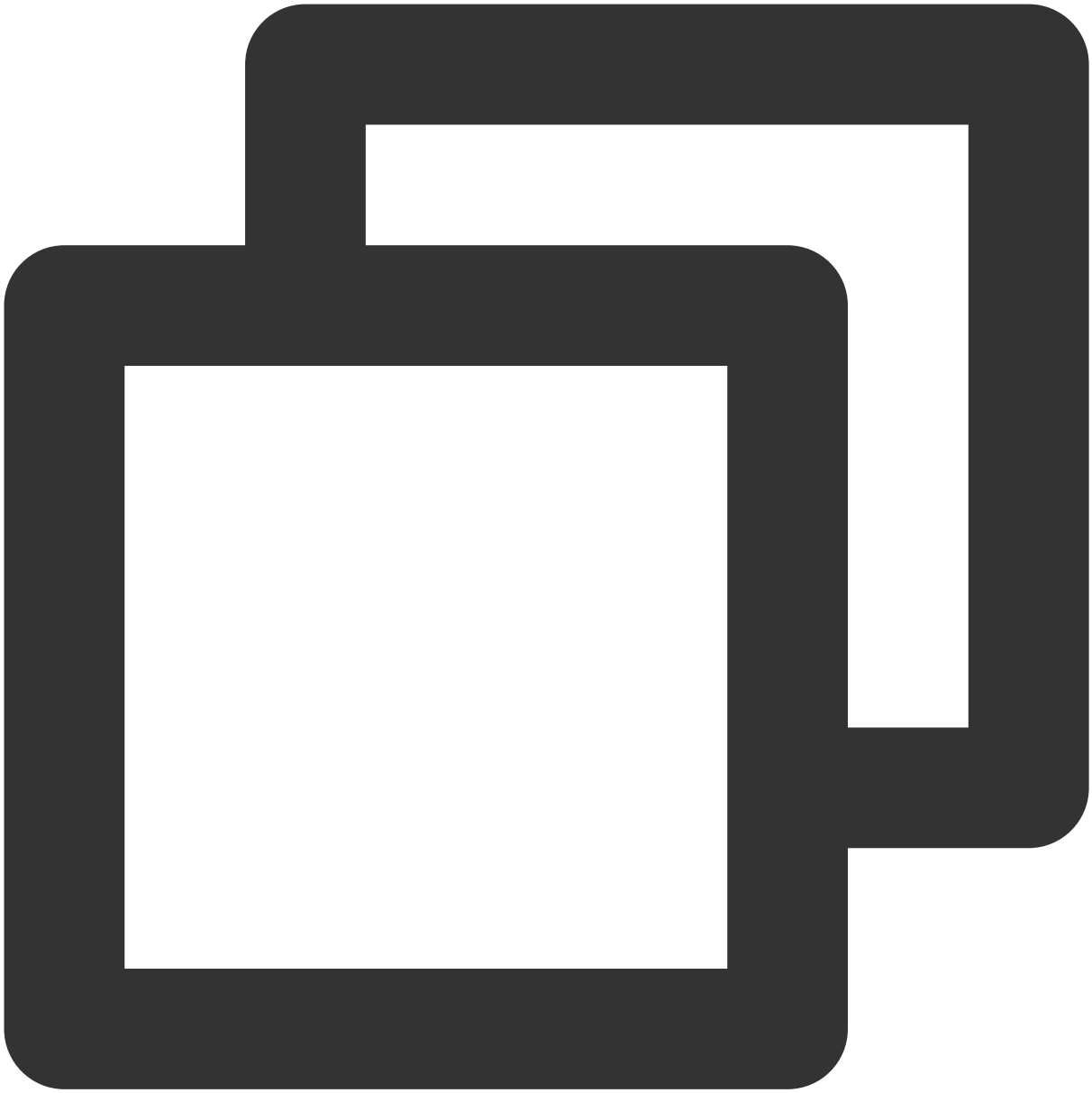


```
func (s *CIService) Get(ctx context.Context, key string, operation string, opt *Obj

func (s *CIService) GetToFile(ctx context.Context, key, localpath, operation string
```

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Sample request



```
name := "test.jpg"
// Sample 1. Get an object from the response body
resp, err := c.CI.Get(context.Background(), name, "imageMogr2/thumbnail/!50px", nil
if err != nil {
    //ERROR
}
defer resp.Body.Close()
ioutil.ReadAll(resp.Body)
```

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```
// Sample 2. Download an object
filepath := "test.jpg"
_, err = c.CI.GetToFile(context.Background(), name, filepath, "imageMogr2/thumbnail
```

Parameter description

Parameter	Description	Type	Required
key	Unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	string	Yes
operation	Image processing operation, such as scaling, cropping, rotation, format conversion, and quality change.	string	Yes
ObjectGetOptions	Object download parameters. For more information, see Object Operations.	string	No
id	Object `VersionId`	string	No

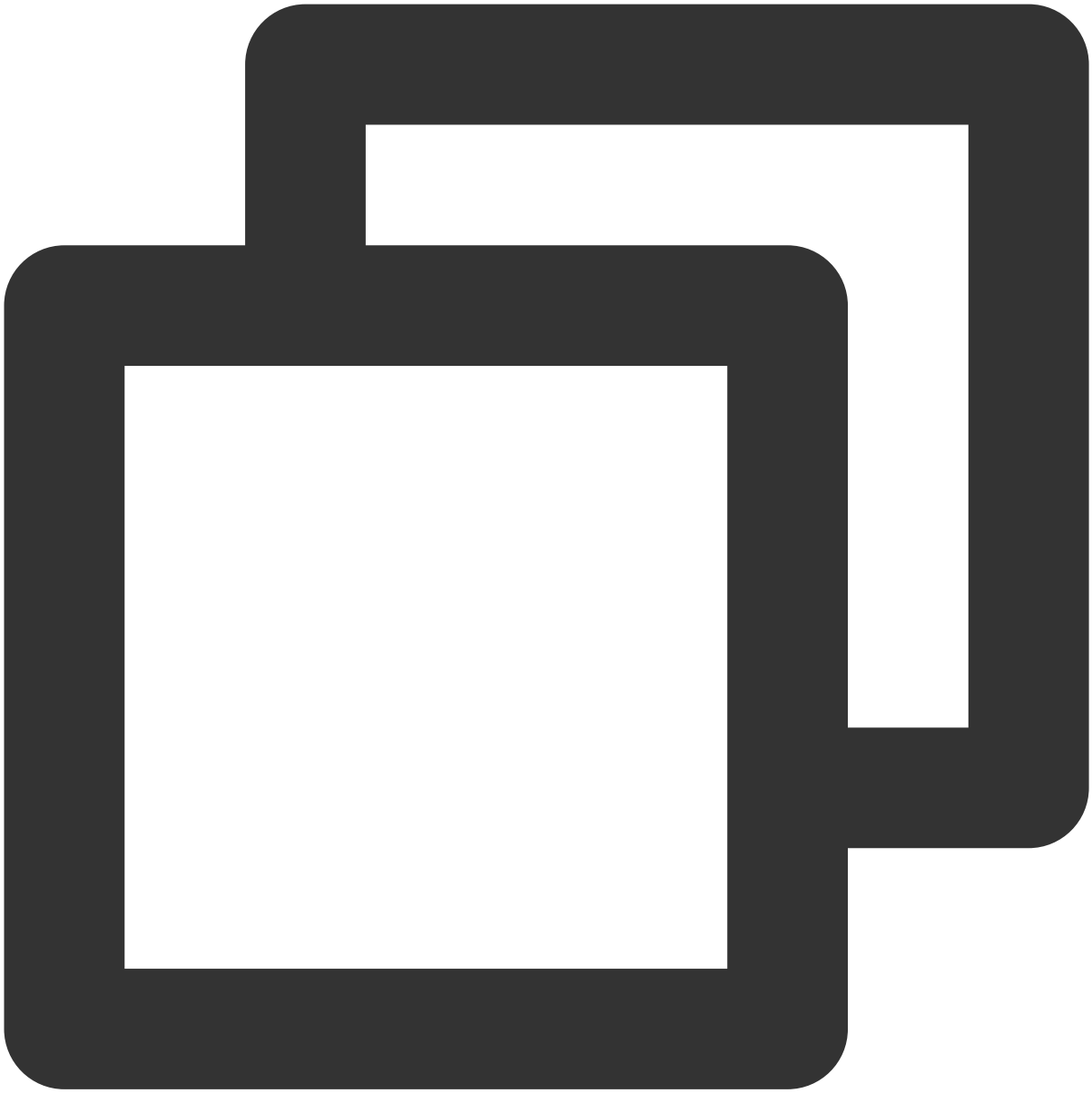
Cropping

Feature description

CI uses the **imageMogr2** API to crop images, including regular cropping, scaling and cropping, cropping to circle, rounded corner cropping, and smart face cropping.

Sample request

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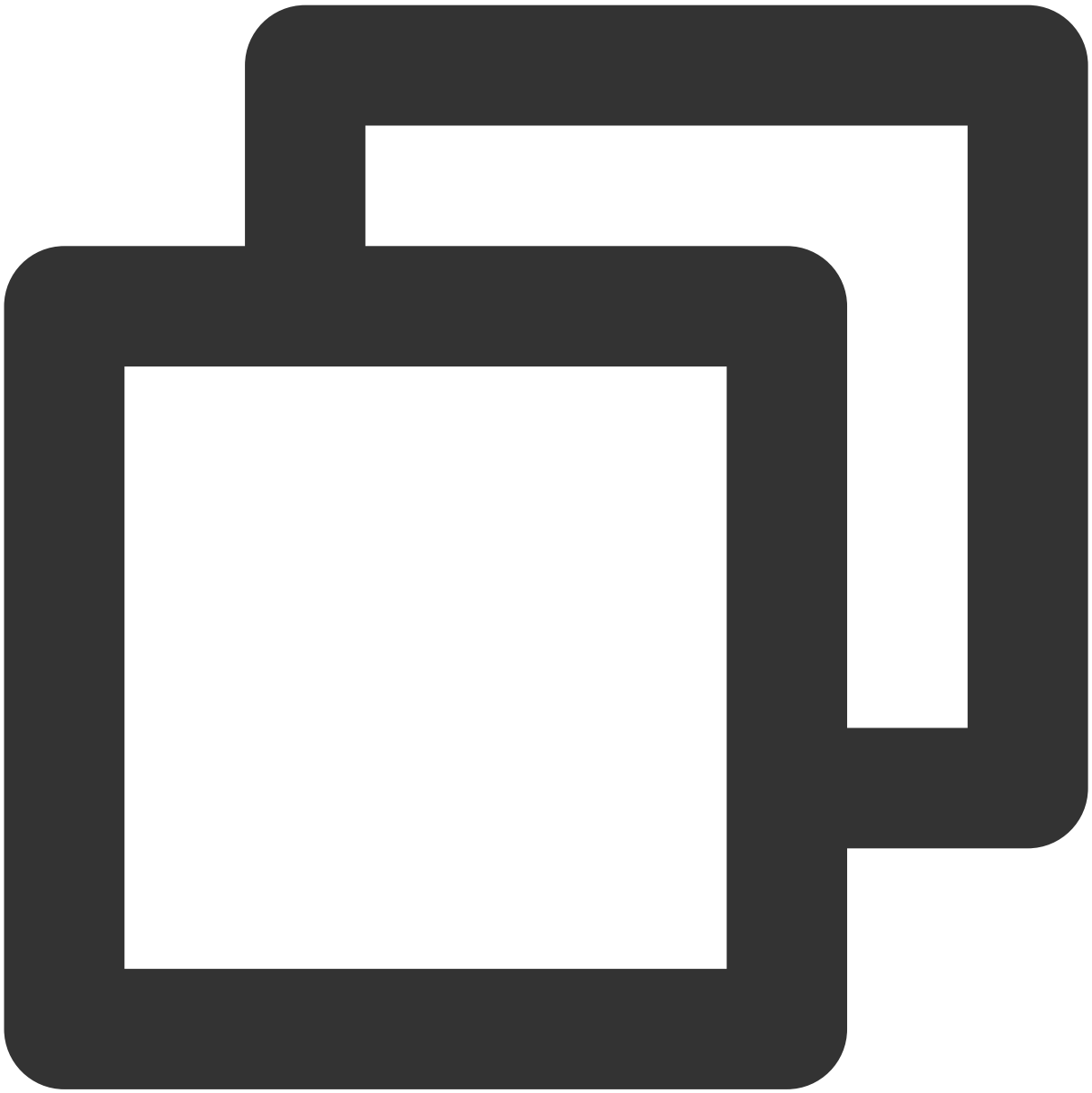
```
name := "test.jpg"
filepath := "test.jpg"
_, err = c.CI.GetToFile(context.Background(), name, filepath, "imageMogr2/cut/600x6
```

Other Basic Image Processing Operations

Feature description

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You can perform other basic processing operations on images by changing the value of the `operation` parameter. For example, you can rotate the image clockwise by 90 degrees as follows:



```
name := "test.jpg"
filepath := "test.jpg"
_, err = c.CI.GetToFile(context.Background(), name, filepath, "imageMogr2/rotate/90
```

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Image Advanced Compression

Last updated：2024-02-29 16:52:32

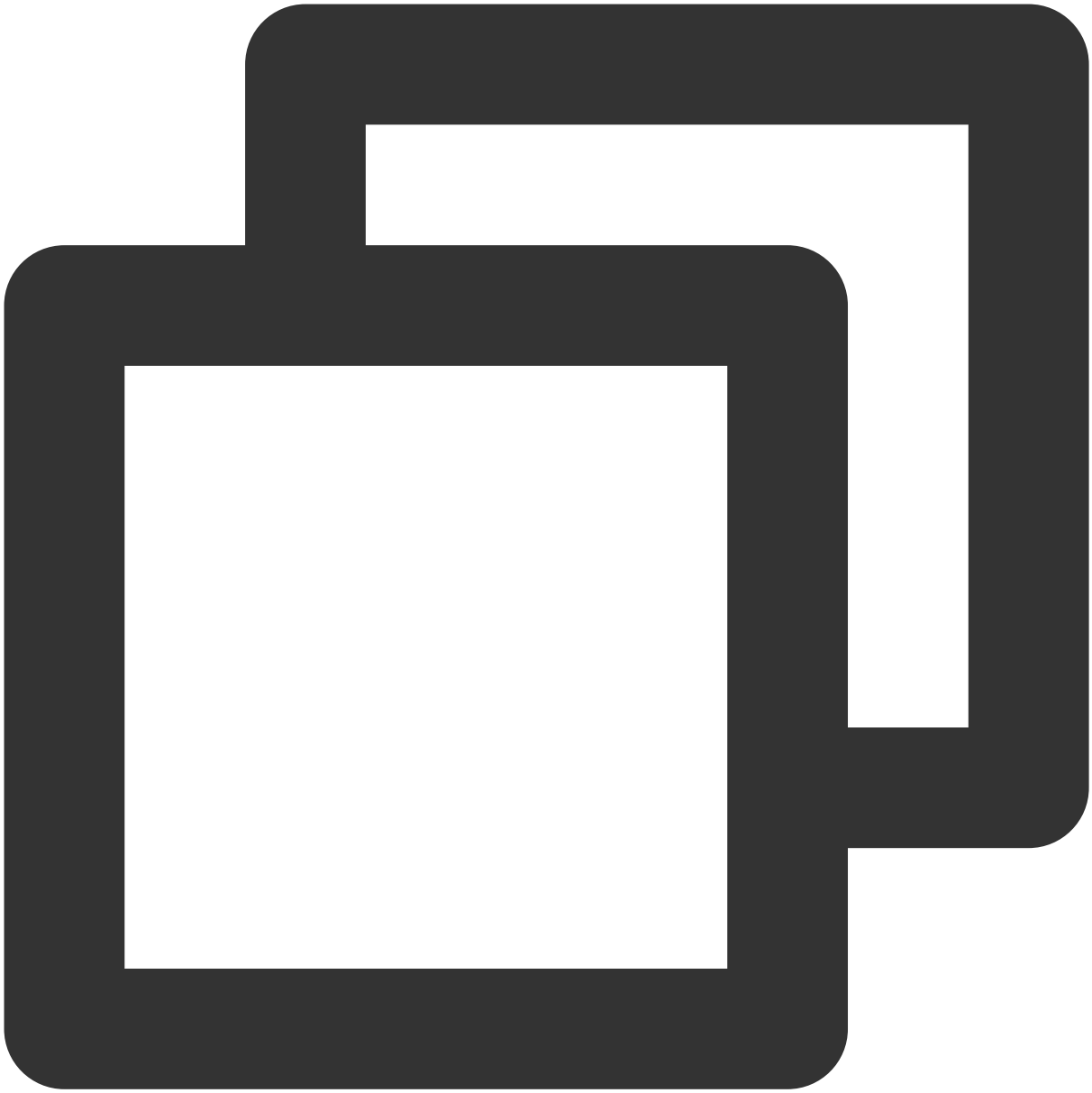
Overview

This document provides an overview of APIs and SDK code samples for image advanced compression.

API	Description
Image advanced compression	Allows you to easily convert images into formats that provide a high compression ratio, such as TPG and HEIF. This effectively reduces the transfer time, loading time, and the use of bandwidth and traffic.

Sample request

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```
// Convert the input image to TPG format
name := "test.png"
filepath := "test.tpg"
_, err := c.CI.GetToFile(context.Background(), name, filepath, "imageMogr2/format/t
if err != nil {
    // ERROR
}

// Convert the input image to HEIF format
filepath = "test.heif"
_, err = c.CI.GetToFile(context.Background(), name, filepath, "imageMogr2/format/he
```

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```
if err != nil {
    // ERROR
}
```

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Guetzli Compression

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for Guetzli compression.

API	Description
Enabling Guetzli compression	Enables the Guetzli compression feature for a bucket.
Querying Guetzli status	Queries whether the Guetzli compression feature is enabled.
Disabling Guetzli compression	Disables the Guetzli compression feature.

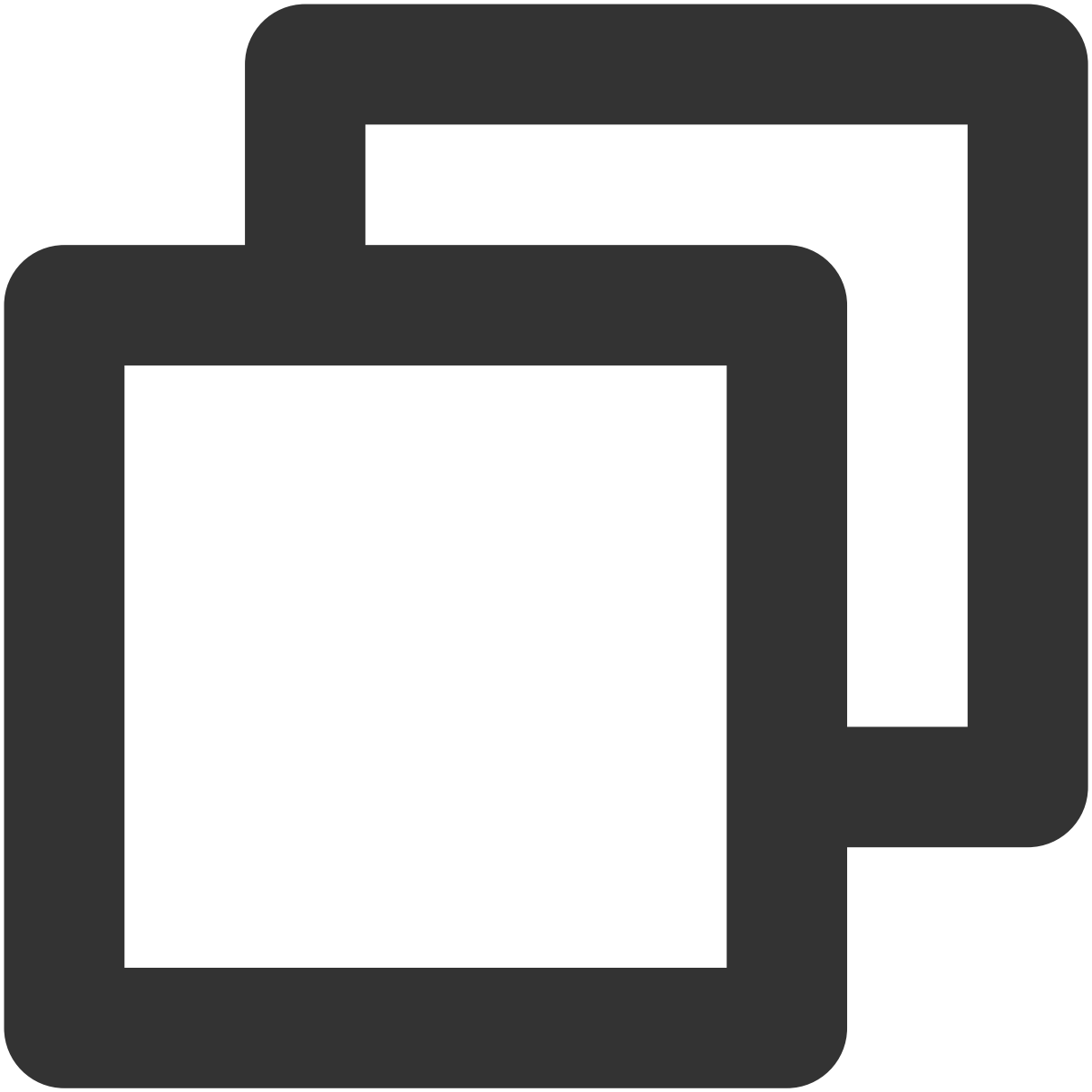
Enabling Guetzli Compression

Feature description

This API is used to enable the Guetzli compression feature for a bucket.

Method prototype

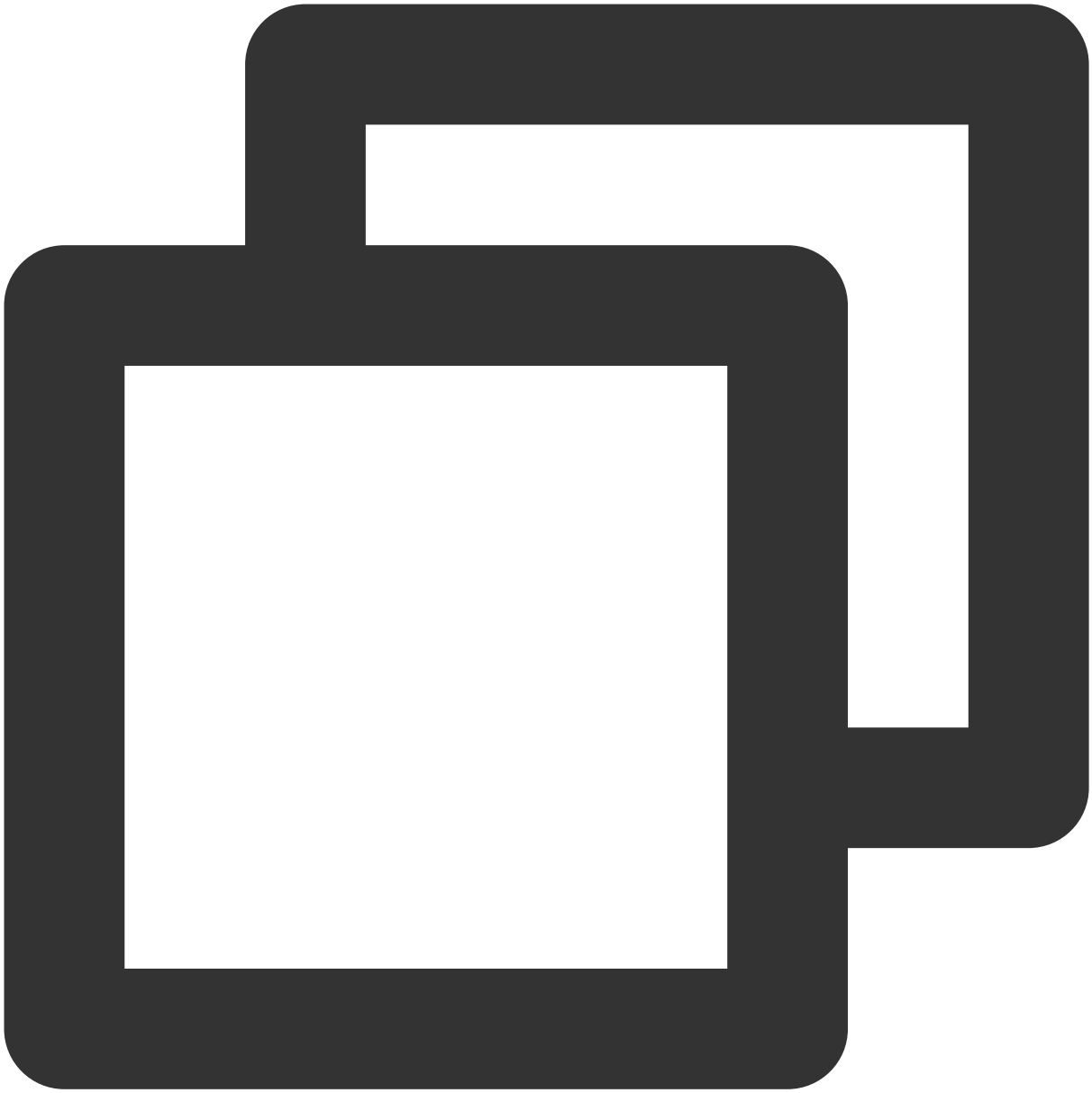
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```
func (s *CIService) PutGuetzli(ctx context.Context) (*Response, error)
```

Sample request

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```
// `CIURL` is required
u, _ := url.Parse("https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com")
cu, _ := url.Parse("http://examplebucket-1250000000.pic.ap-guangzhou.myqcloud.com")
b := &cos.BaseURL{BucketURL: u, CIURL: cu}
c := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
        SecretID:  os.Getenv("SECRETID"),
        SecretKey: os.Getenv("SECRETKEY"),
    },
})
```

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```
_, err := c.CI.PutGuetzli(context.Background())
log_status(err)
```

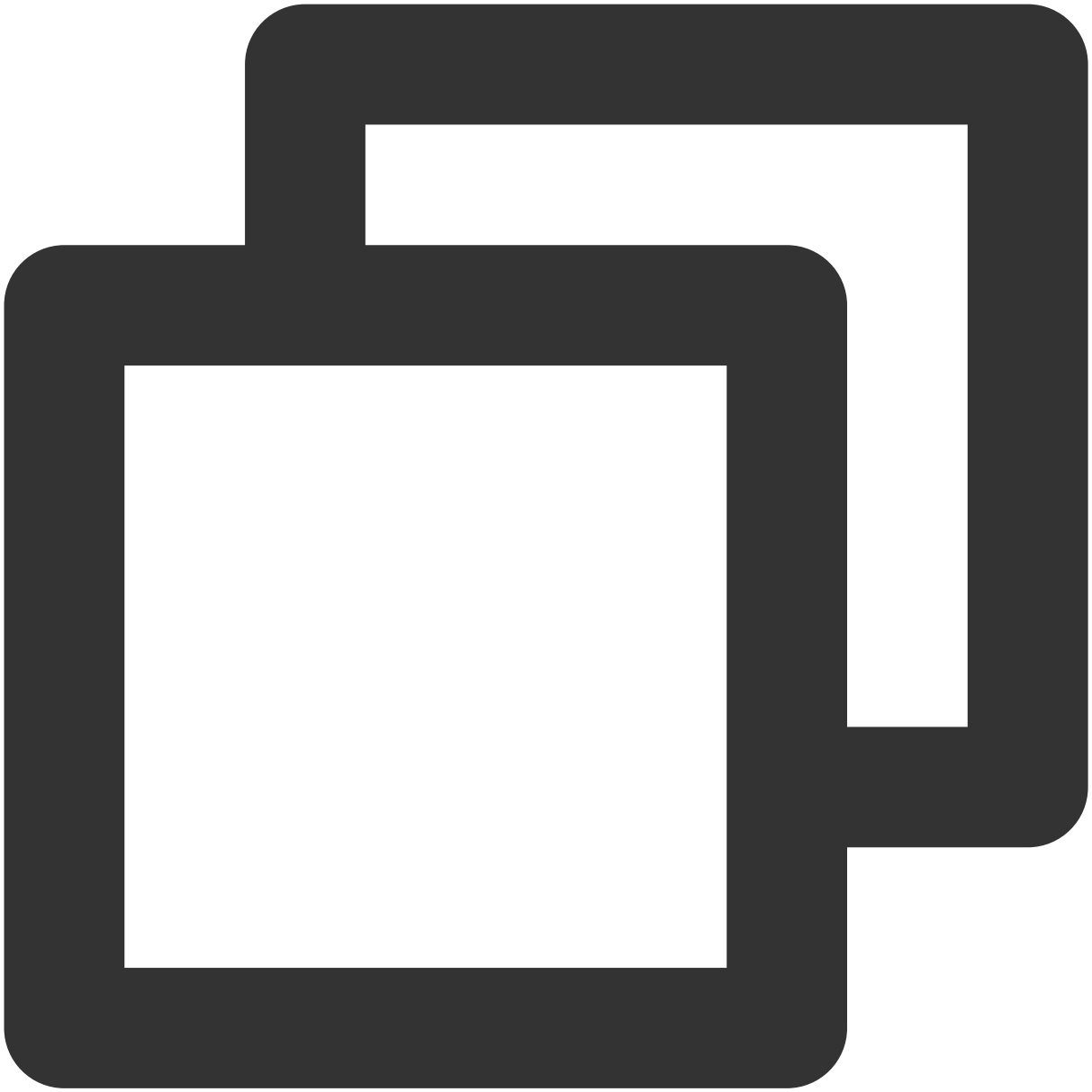
Querying Guetzli Status

Feature description

This API is used to query whether the Guetzli compression feature is enabled.

Method prototype

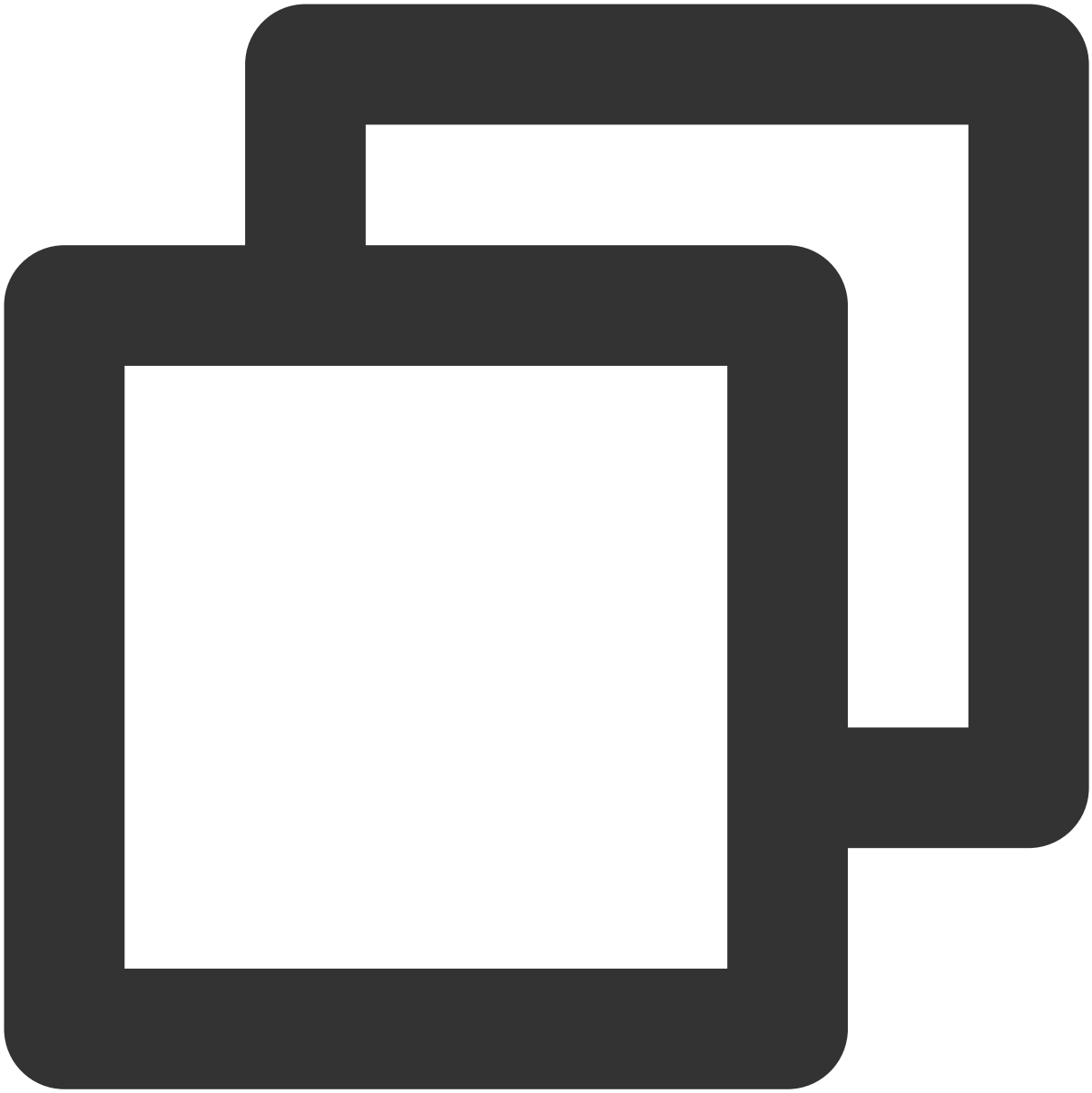
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```
func (s *CIService) GetGuetzli(ctx context.Context) (*GetGuetzliResult, *Response,
```

Sample request

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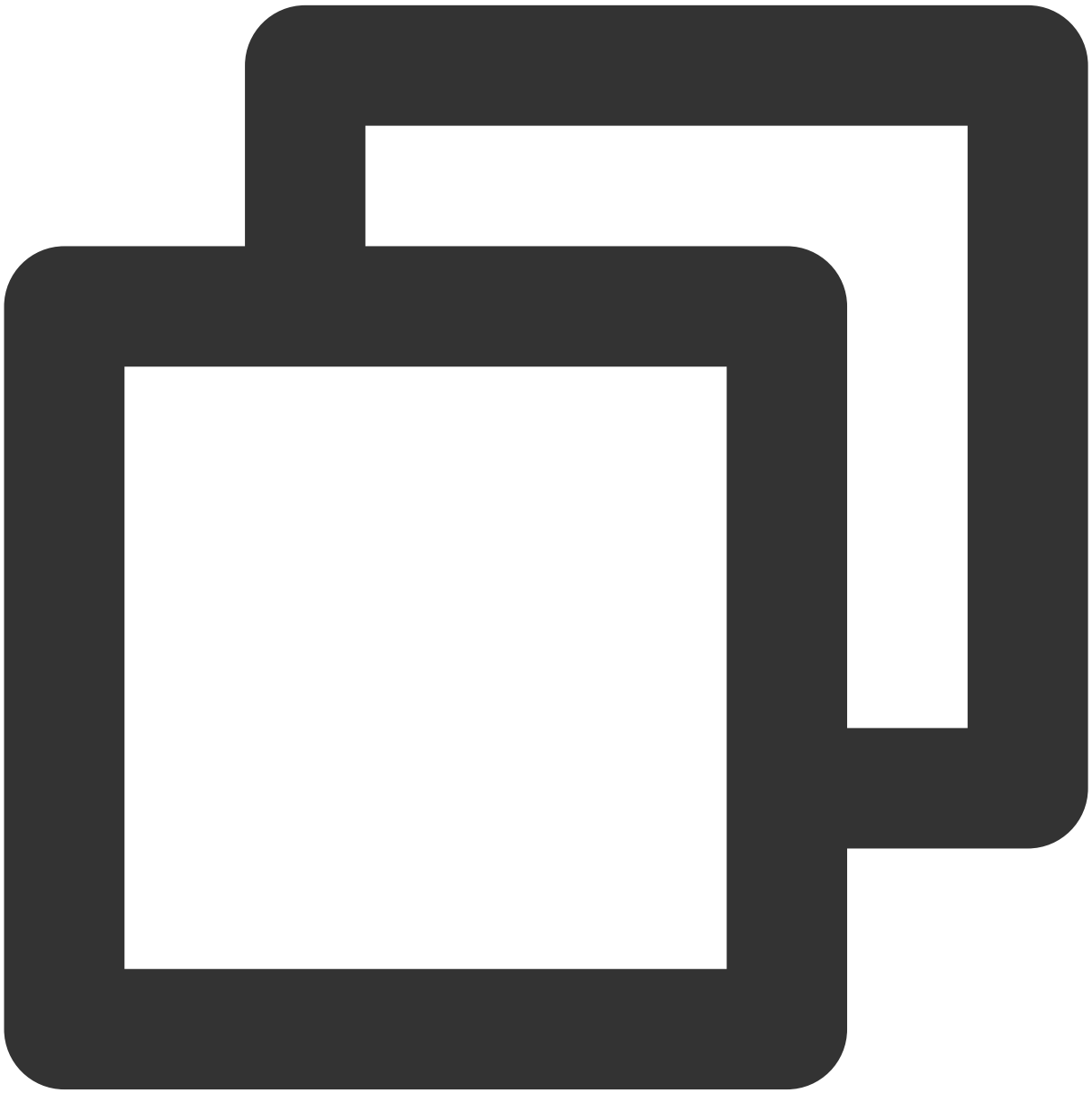


```
// `CIURL` is required
u, _ := url.Parse("https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com")
cu, _ := url.Parse("http://examplebucket-1250000000.pic.ap-guangzhou.myqcloud.com")
b := &cos.BaseURL{BucketURL: u, CIURL: cu}
c := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
        SecretID:  os.Getenv("SECRETID"),
        SecretKey: os.Getenv("SECRETKEY"),
    },
})
```

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```
res, _, err := c.CI.GetGuetzli(context.Background())
if err == nil {
    fmt.Printf("%v\\n", res.GuetzliStatus)
}
```

Response description



```
type GetGuetzliResult struct {
    GuetzliStatus string
}
```

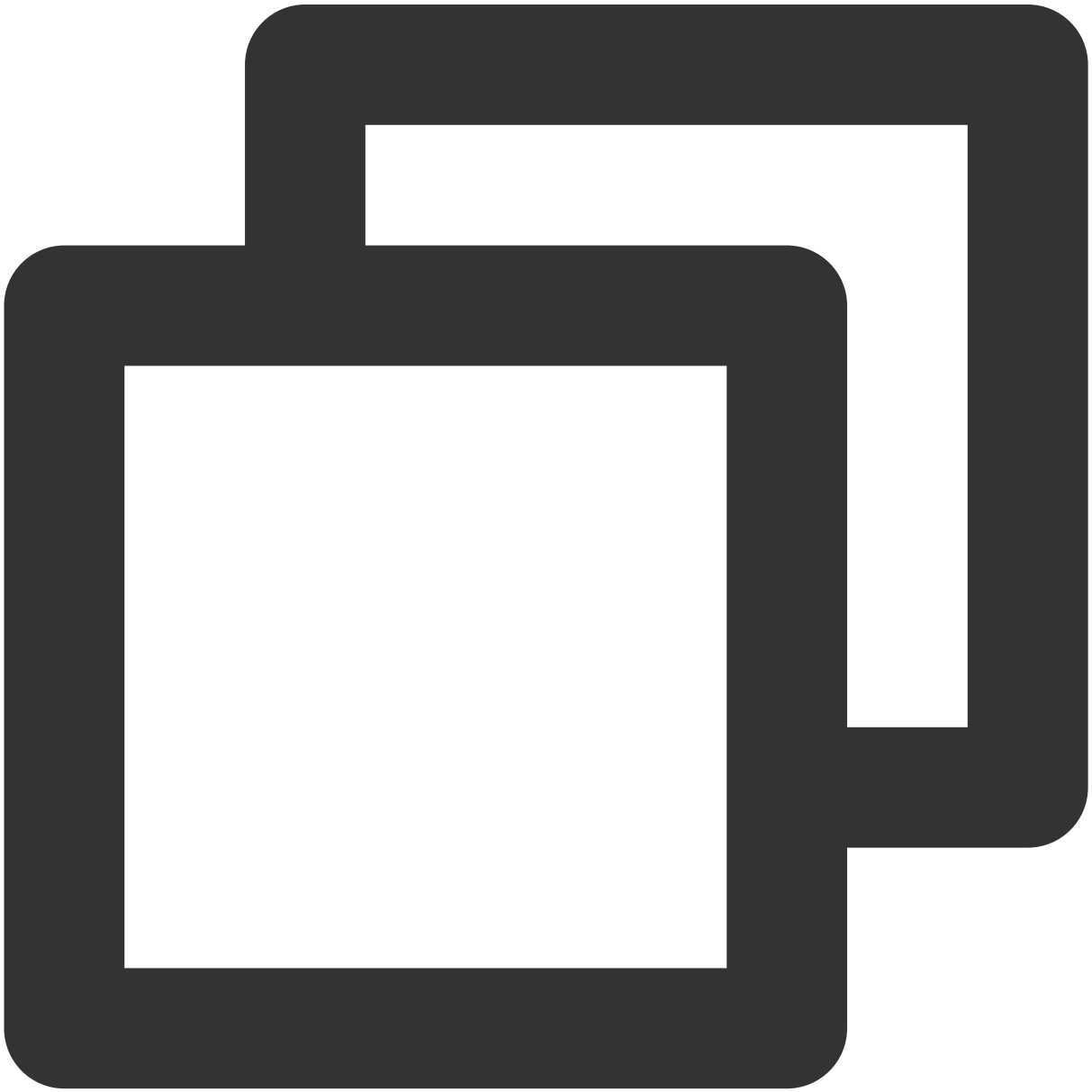
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Node Name	Description	Type
GuetzliStatus	Whether to enable the Guetzli compression feature: `on` or `off`	String

Disabling Guetzli Compression

This API is used to disable the Guetzli compression feature.

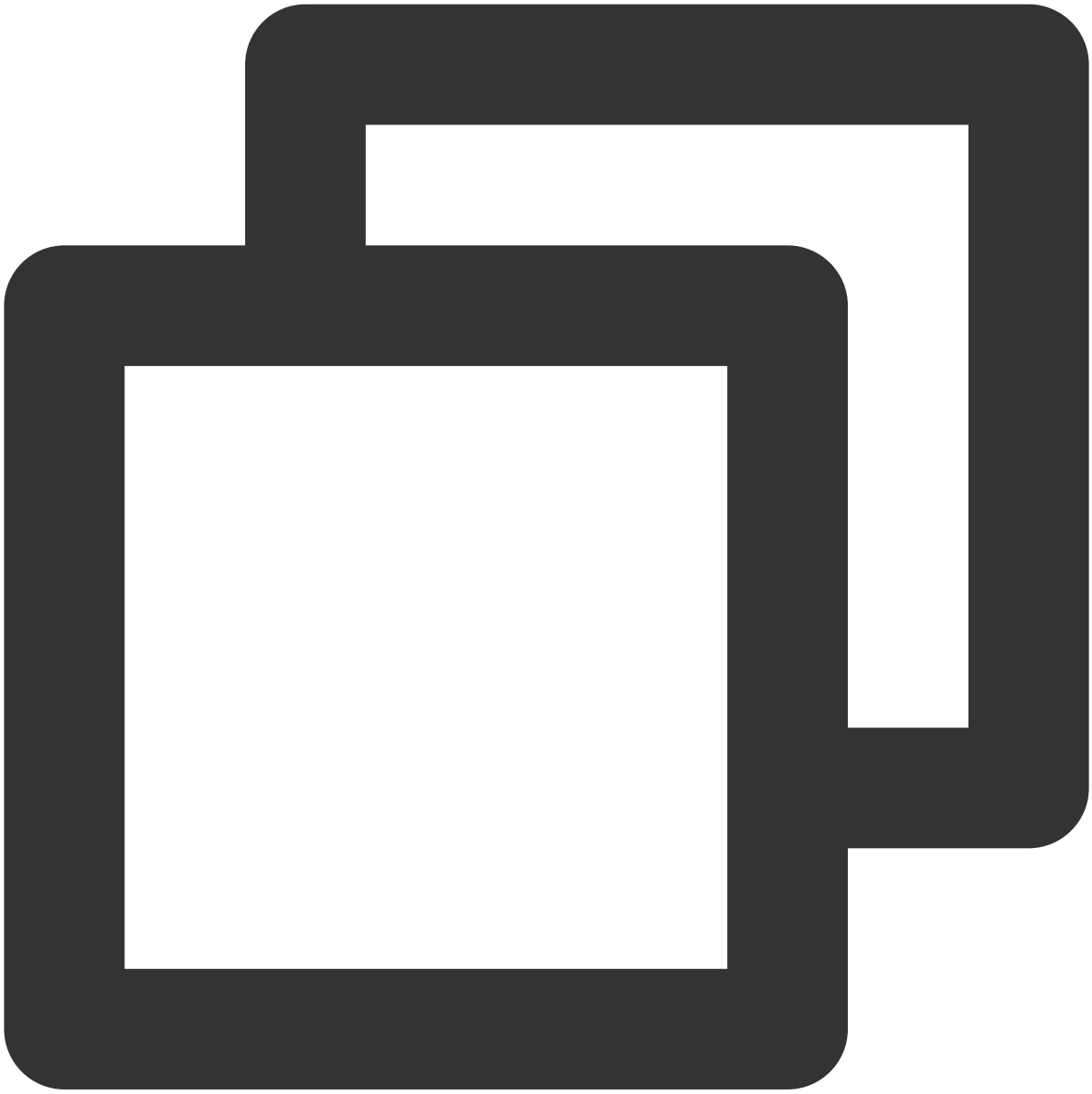
Method prototype



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```
func (s *CIService) DeleteGuetzli(ctx context.Context) (*Response, error)
```

Sample request



```
// `CIURL` is required
u, _ := url.Parse("https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com")
cu, _ := url.Parse("http://examplebucket-1250000000.pic.ap-guangzhou.myqcloud.com")
b := &cos.BaseURL{BucketURL: u, CIURL: cu}
c := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
```

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```
        SecretID:  os.Getenv("SECRETID"),
        SecretKey: os.Getenv("SECRETKEY"),
    },
})

_, err := c.CI.DeleteGuetzli(context.Background())
```

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Blind Watermark

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.

API	Description
Blind watermarking	Adds a blind watermark to or extracts a blind watermark from a local image and uploads the image to a bucket.

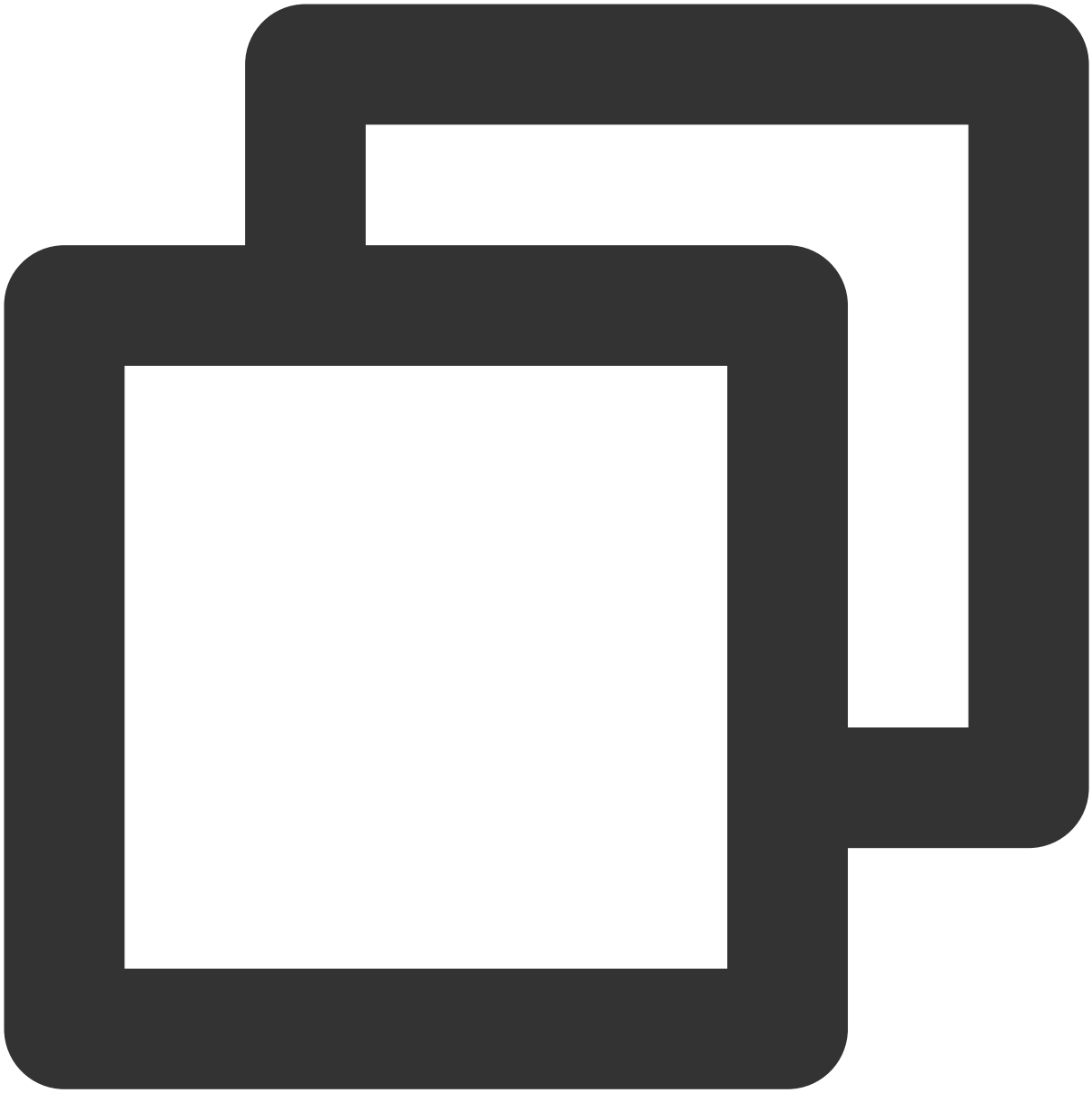
Adding Blind Watermark

Feature description

You can add a blind watermark when uploading or downloading an object.

Sample 1: Adding a blind watermark during upload

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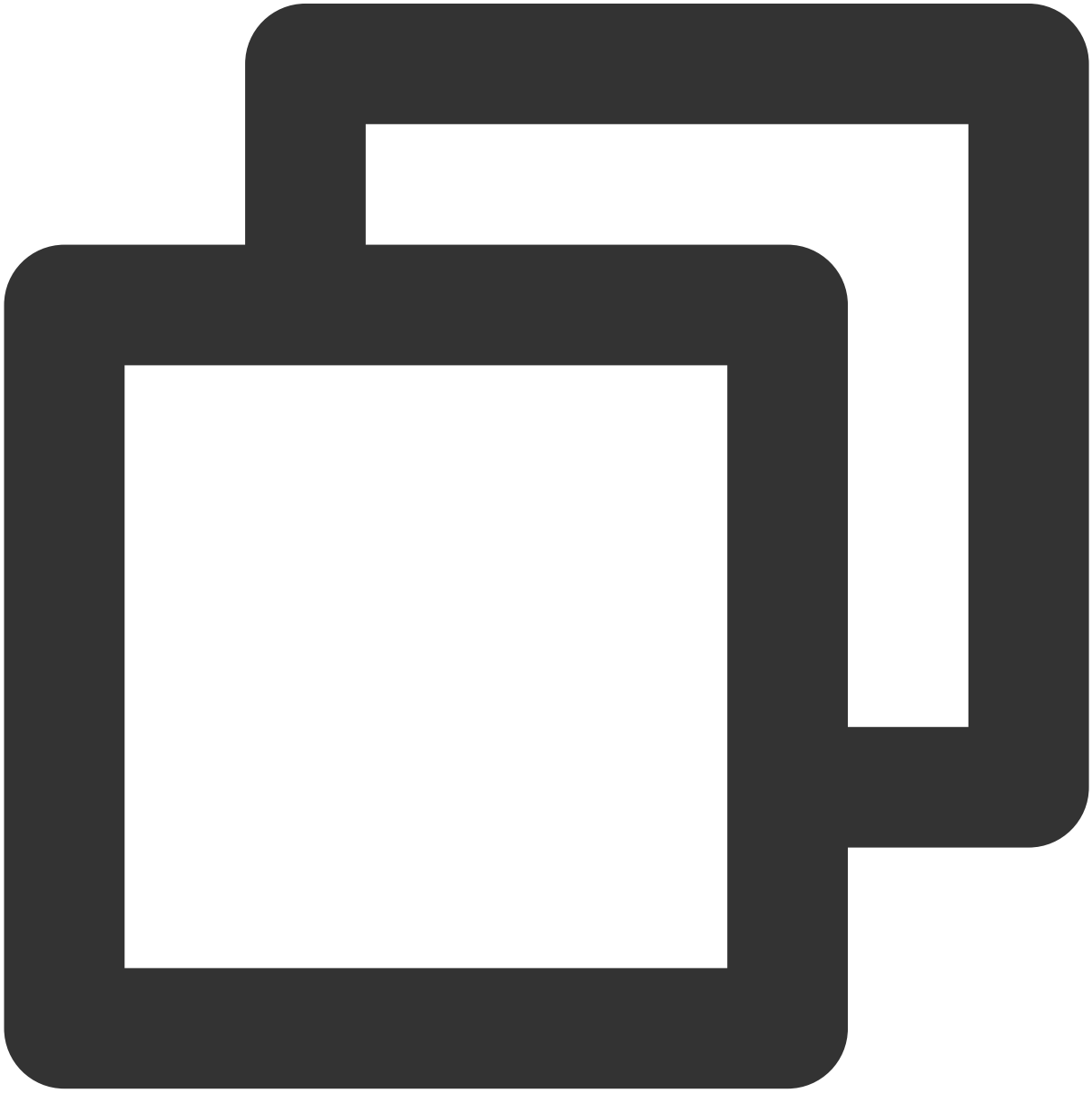


```
opt := &cos.ObjectPutOptions{
    nil,
    &cos.ObjectPutHeaderOptions{
        XOptionHeader: &http.Header{},
    },
}
pic := &cos.PicOperations{
    IsPicInfo: 1,
    Rules: []cos.PicOperationsRules{
        {
            FileId: ".jpg",
```

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```
            Rule:   "watermark/3/type/3/text/" + base64.StdEncoding.EncodeToString(
        },
    },
}
opt.XOptionHeader.Add("Pic-Operations", cos.EncodePicOperations(pic))
name := "test.jpg"
filepath := "./test.jpg"
res, _, err := c.CI.PutFromFile(context.Background(), name, filepath, opt)
```

Sample 2: Adding a blind watermark during download



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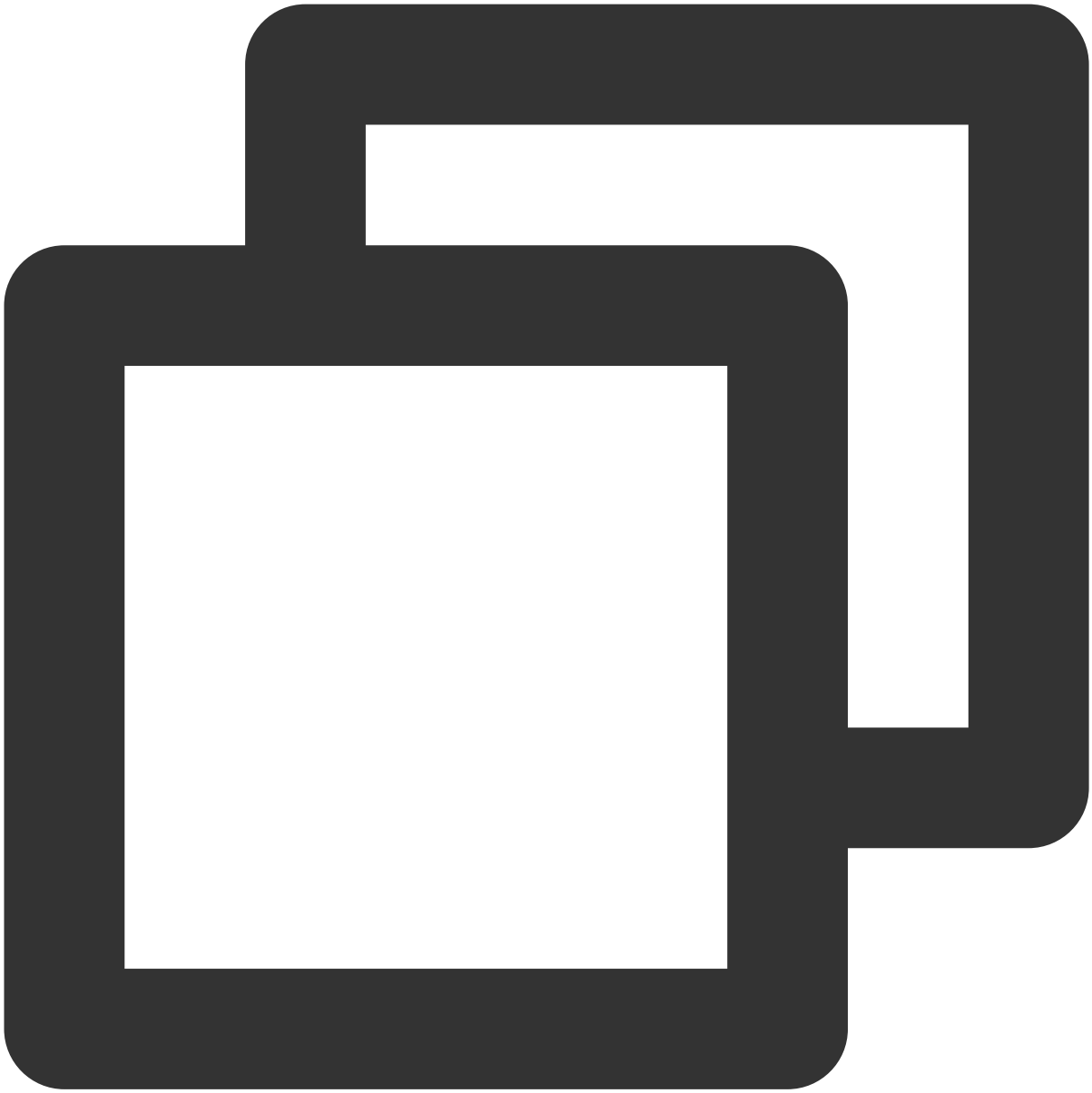
```
name = "test.jpg"
filepath := "watermark.jpg"
_, err = c.CI.GetToFile(context.Background(), name, filepath, "watermark/3/type/3/t
```

Extracting Blind Watermark

The request for extracting a blind watermark is the same as that used to simply upload a file to COS, except that you need to add the image processing parameter `Pic-Operations` to the request header and use the blind watermark extraction parameter `watermark/4`.

Sample request

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```
opt := &cos.ObjectPutOptions{
    nil,
    &cos.ObjectPutHeaderOptions{
        XOptionHeader: &http.Header{},
    },
}
pic := &cos.PicOperations{
    IsPicInfo: 1,
    Rules: []cos.PicOperationsRules{
        {
            FileId: "format2.jpg",
```

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```
            Rule:   "watermark/4/type/3/text/" + base64.StdEncoding.EncodeToString(
        },
    },
}
opt.XOptionHeader.Add("Pic-Operations", cos.EncodePicOperations(pic))
name := "test2.jpg"
_, err := c.Object.PutFromFile(context.Background(), name, filepath, opt)
```

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CI Service

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for CI.

API	Description
Binding CI	Activates the CI service, which needs to be bound to an existing COS bucket.
Querying CI status	Queries whether the CI service has been activated for a bucket.
Unbinding CI	Unbinds the CI service from a bucket (the bucket and files in it will be retained in COS).

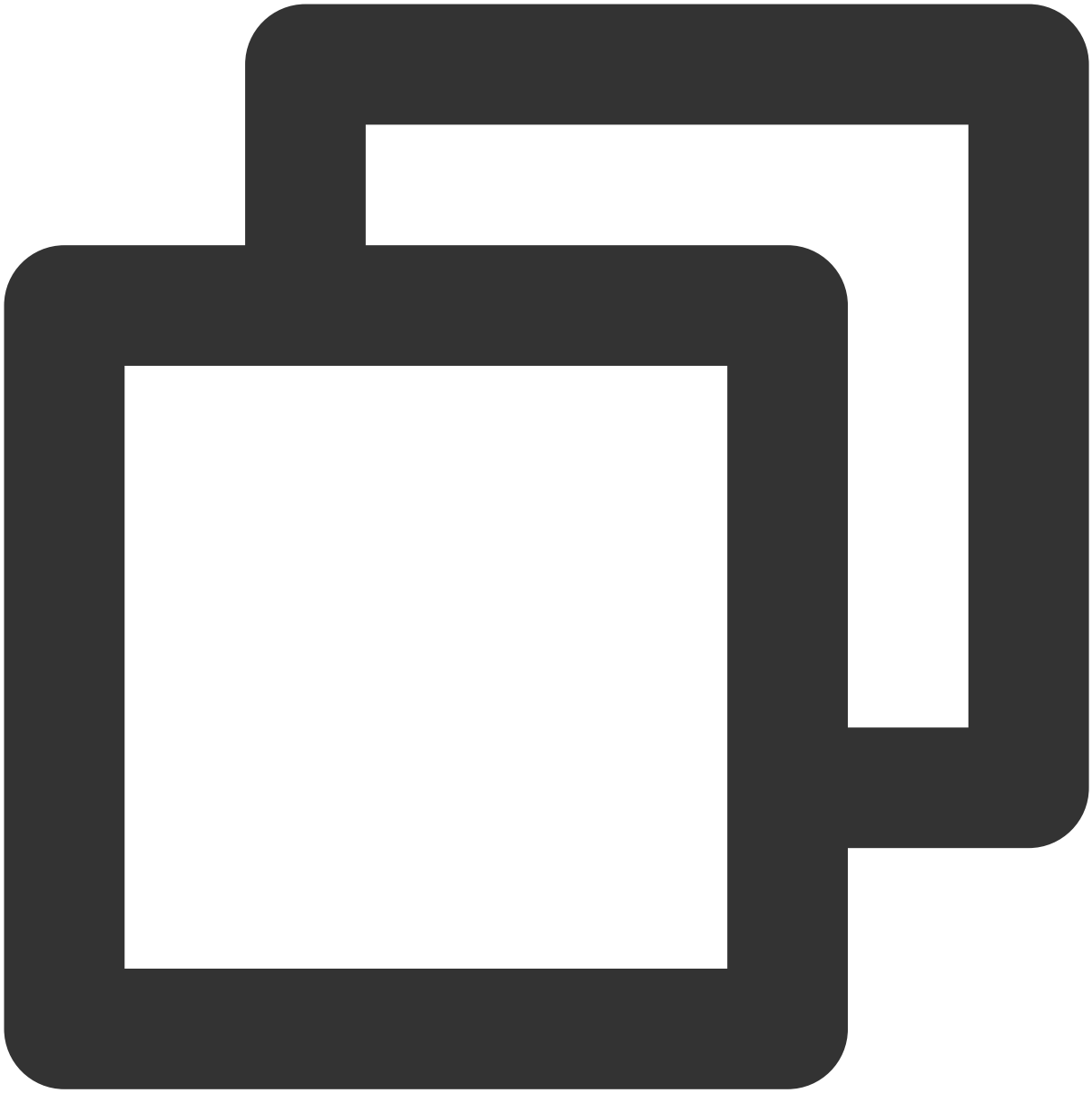
Binding CI

Feature description

This API is used to activate the CI service.

Method prototype

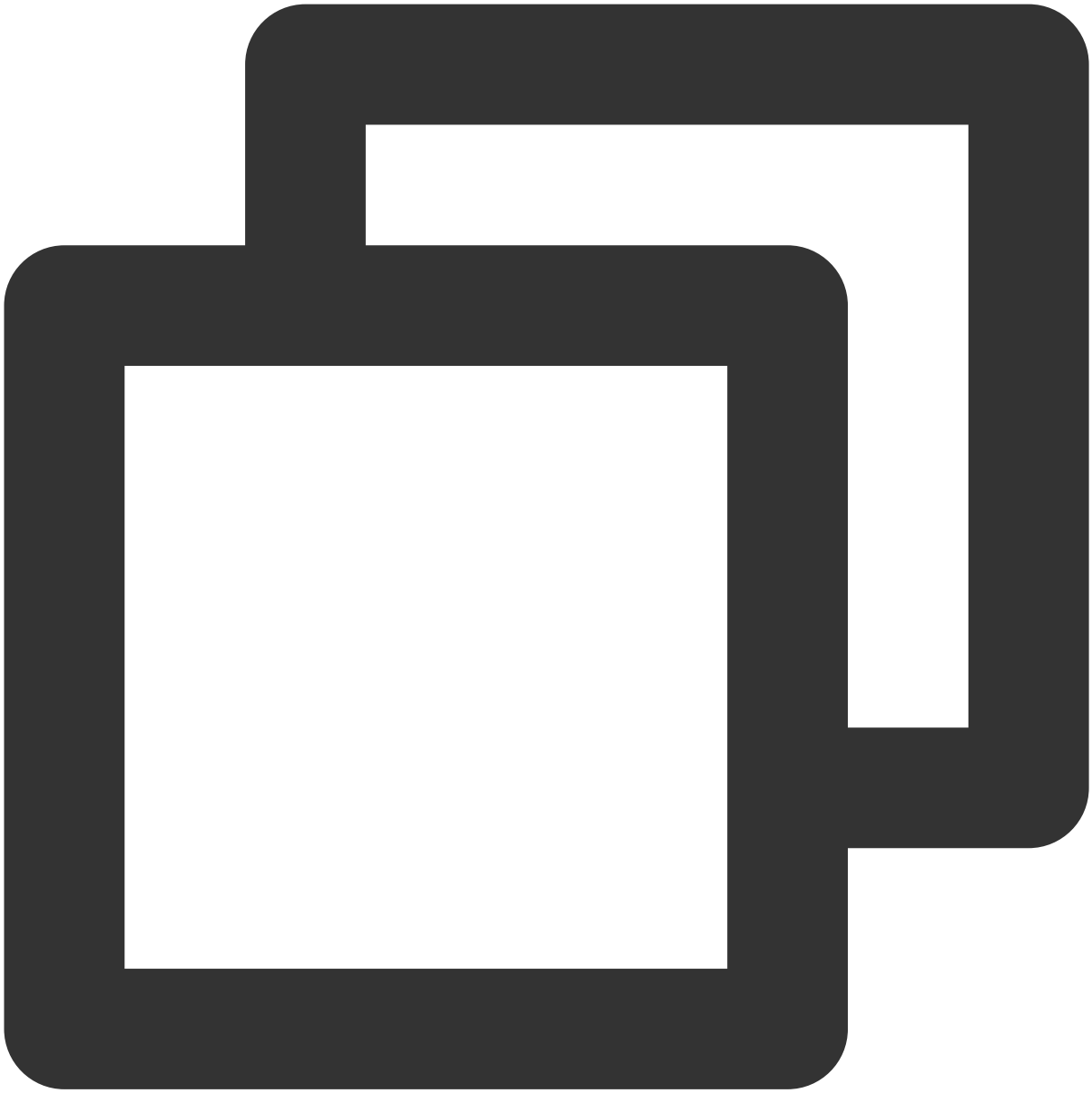
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```
func (s *CIService) OpenCIService(ctx context.Context) (*Response, error)
```

Sample request

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```
_, err := c.CI.OpenCIService(context.Background())
```

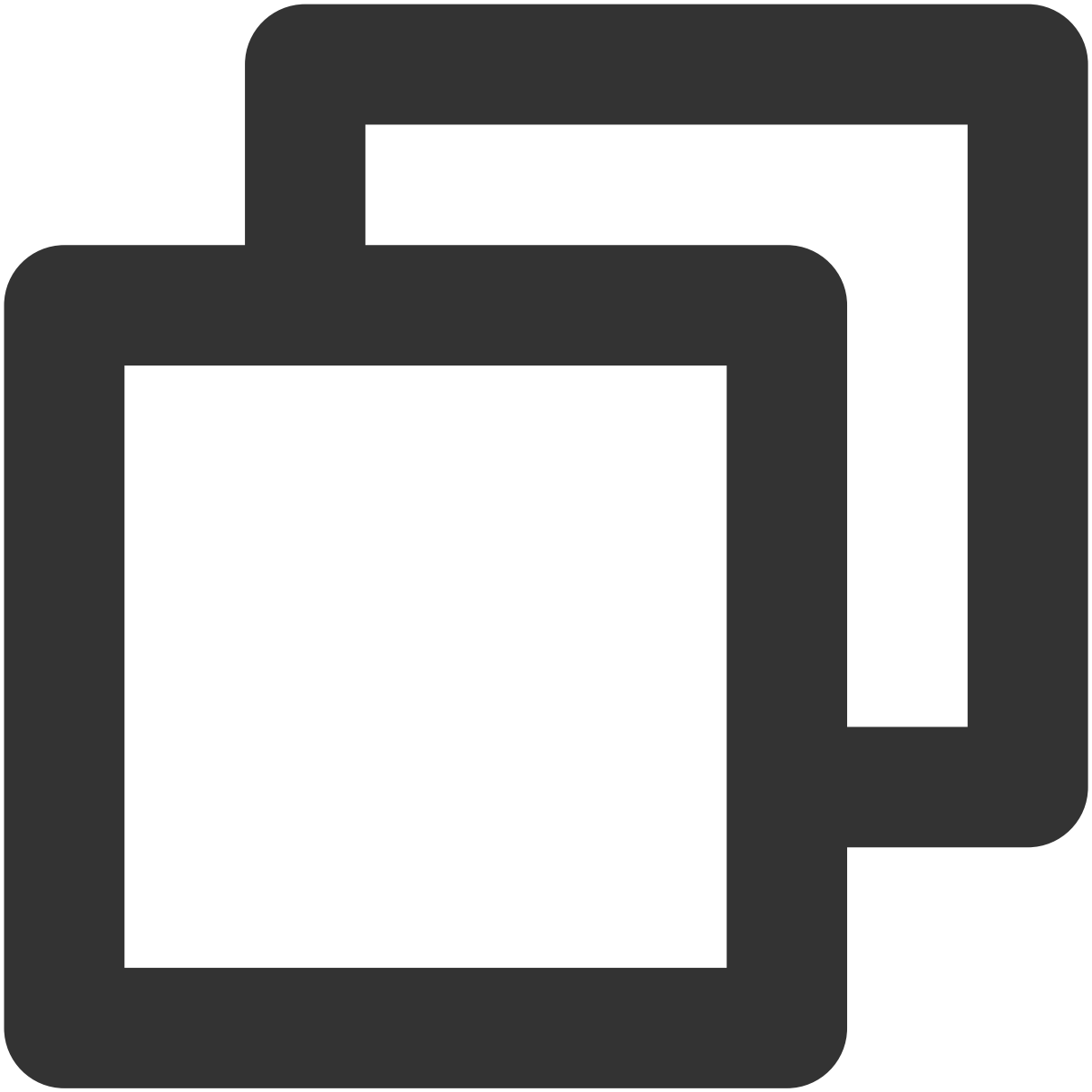
Querying CI Status

Feature description

This API is used to query whether CI has been enabled for a bucket.

Method prototype

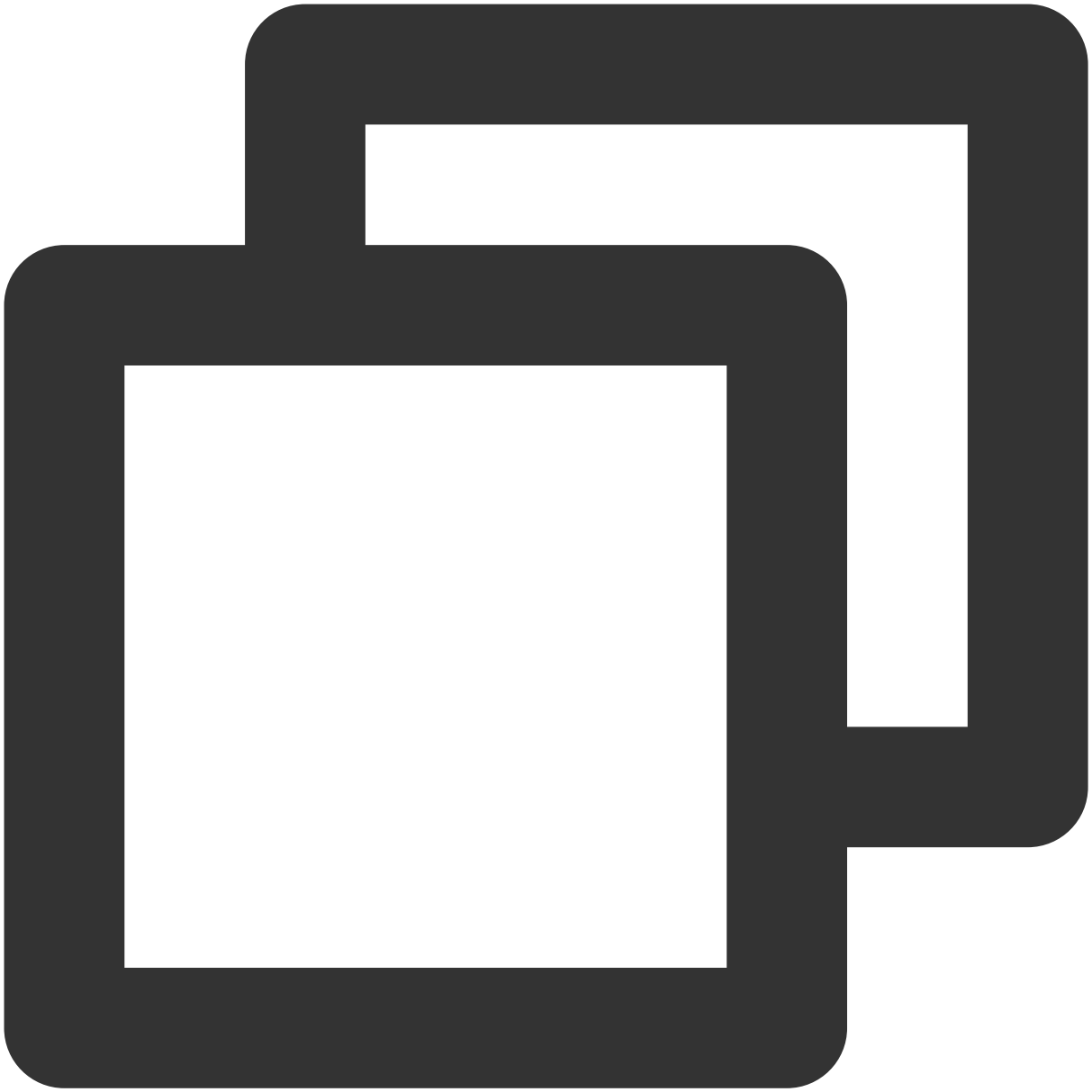
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```
func (s *CIService) GetCIService(ctx context.Context) (*CIServiceResult, *Response,
```

Sample request

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```
res, _, err := c.CI.GetCIService(context.Background())
```

Parameter description

Parameter	Description
CIServiceResult	Whether the CI service is activated.

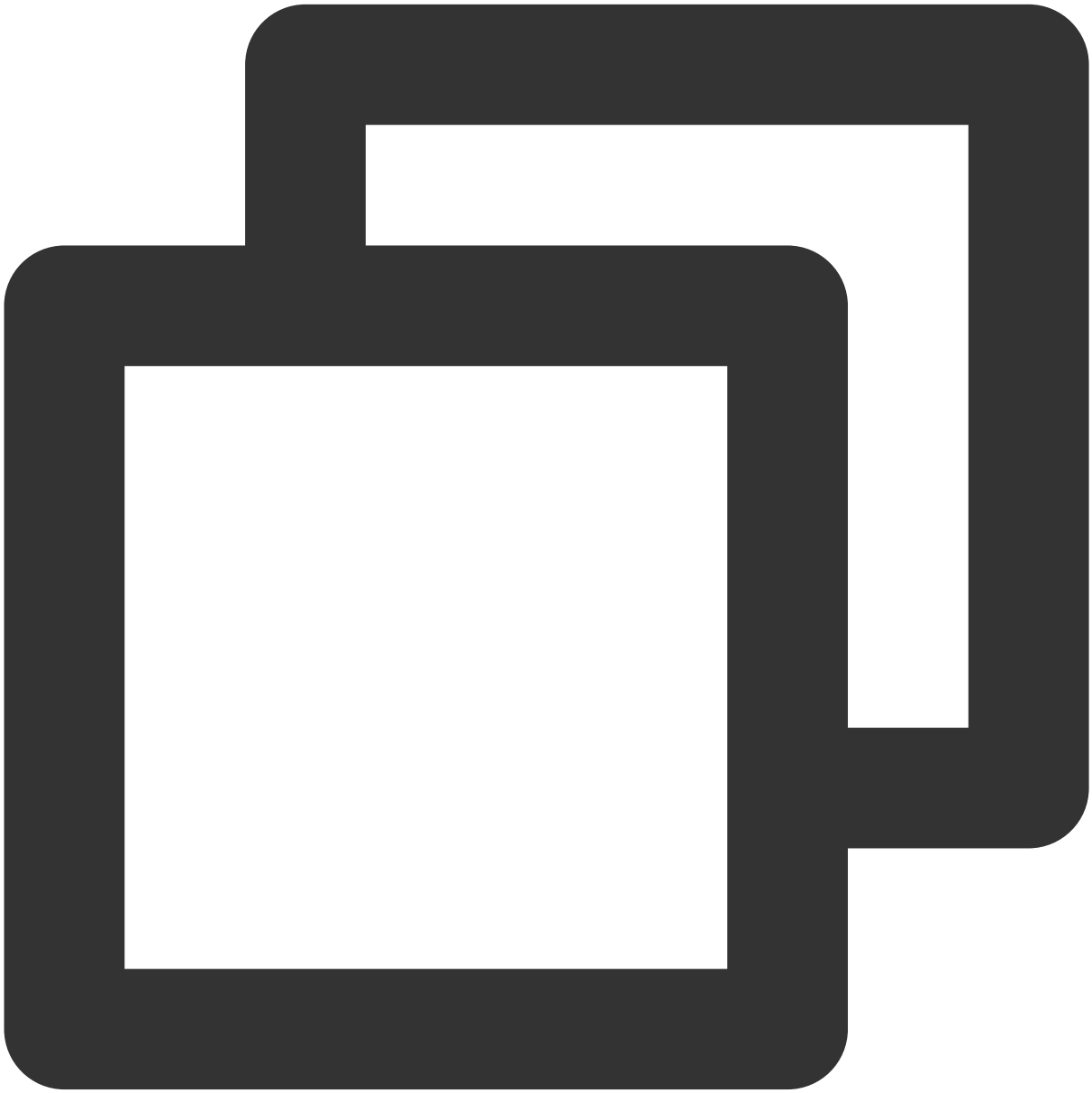
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Unbinding CI

Feature description

This API is used to unbind the CI service from a bucket.

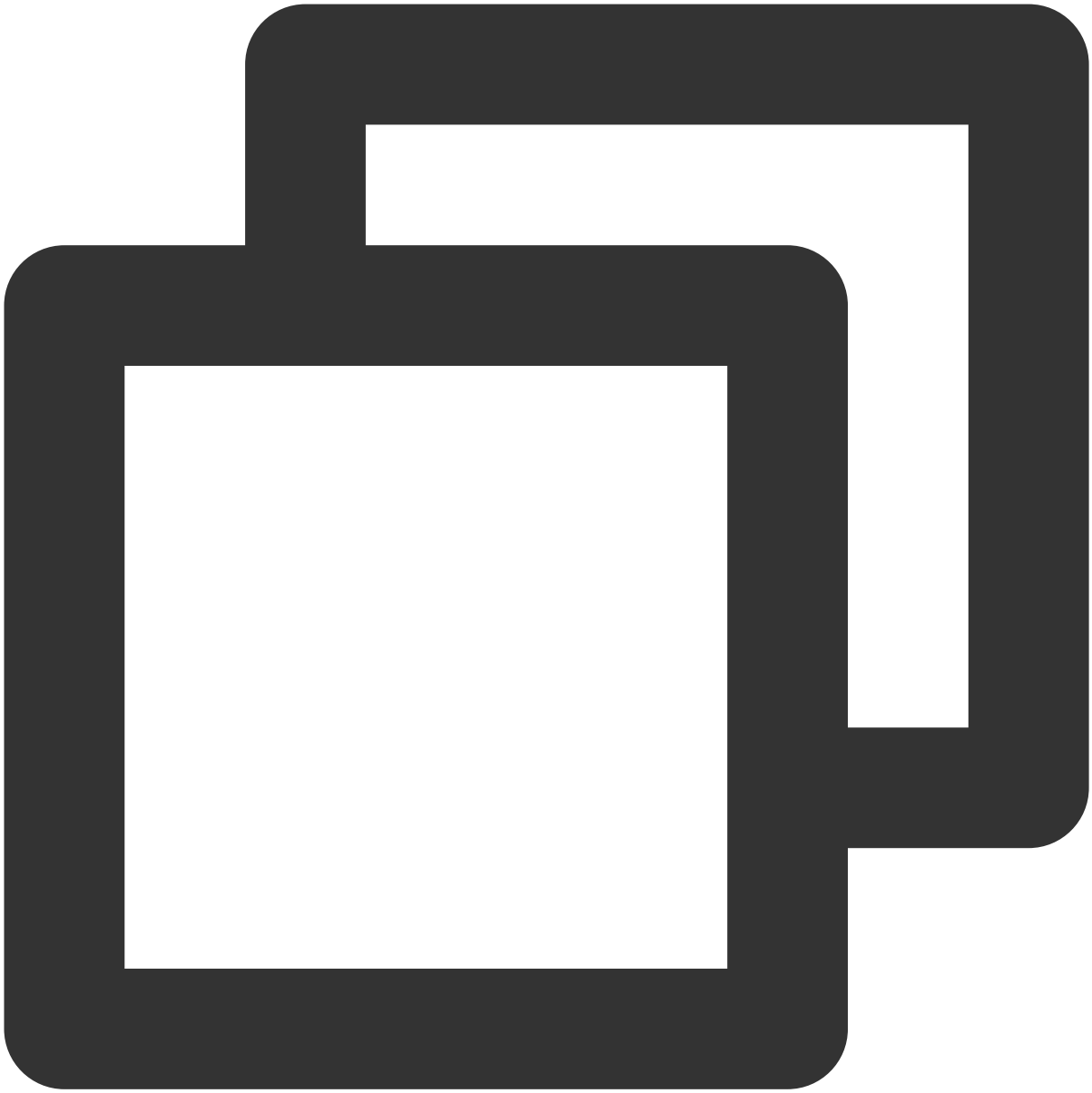
Method prototype



```
func (s *CIService) CloseCIService(ctx context.Context) (*Response, error)
```

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Sample request



```
_, err := c.CI.CloseCIService(context.Background())
```

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Original Image Protection

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for original image protection.

API	Description
Enabling original image protection	Enables the original image protection feature for a bucket.
Querying original image protection status	Queries whether the original image protection feature is enabled.
Disabling original image protection	Disables the original image protection feature.

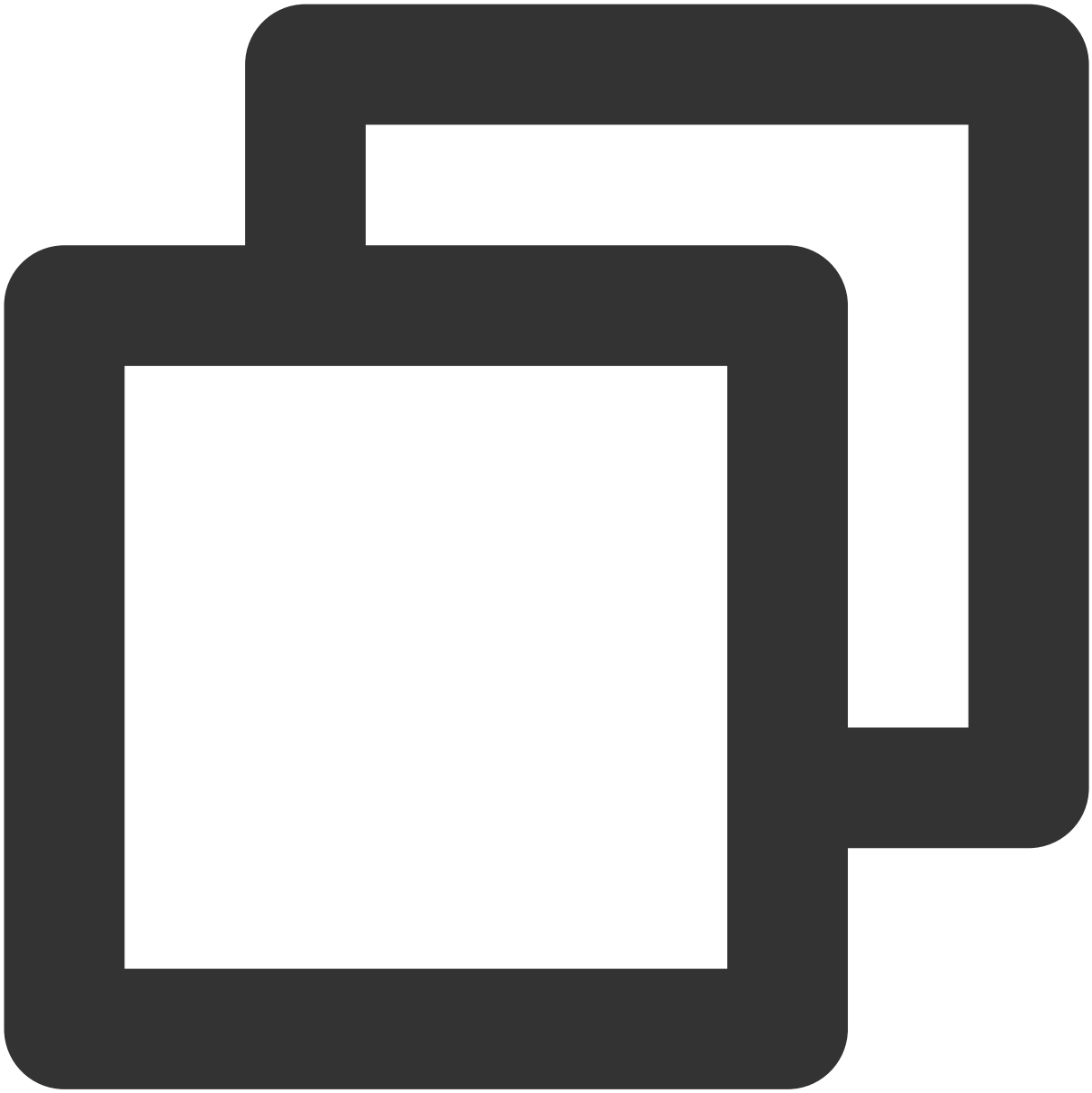
Enabling Original Image Protection

Feature description

This API is used to enable the original image protection feature for a bucket.

Method prototype

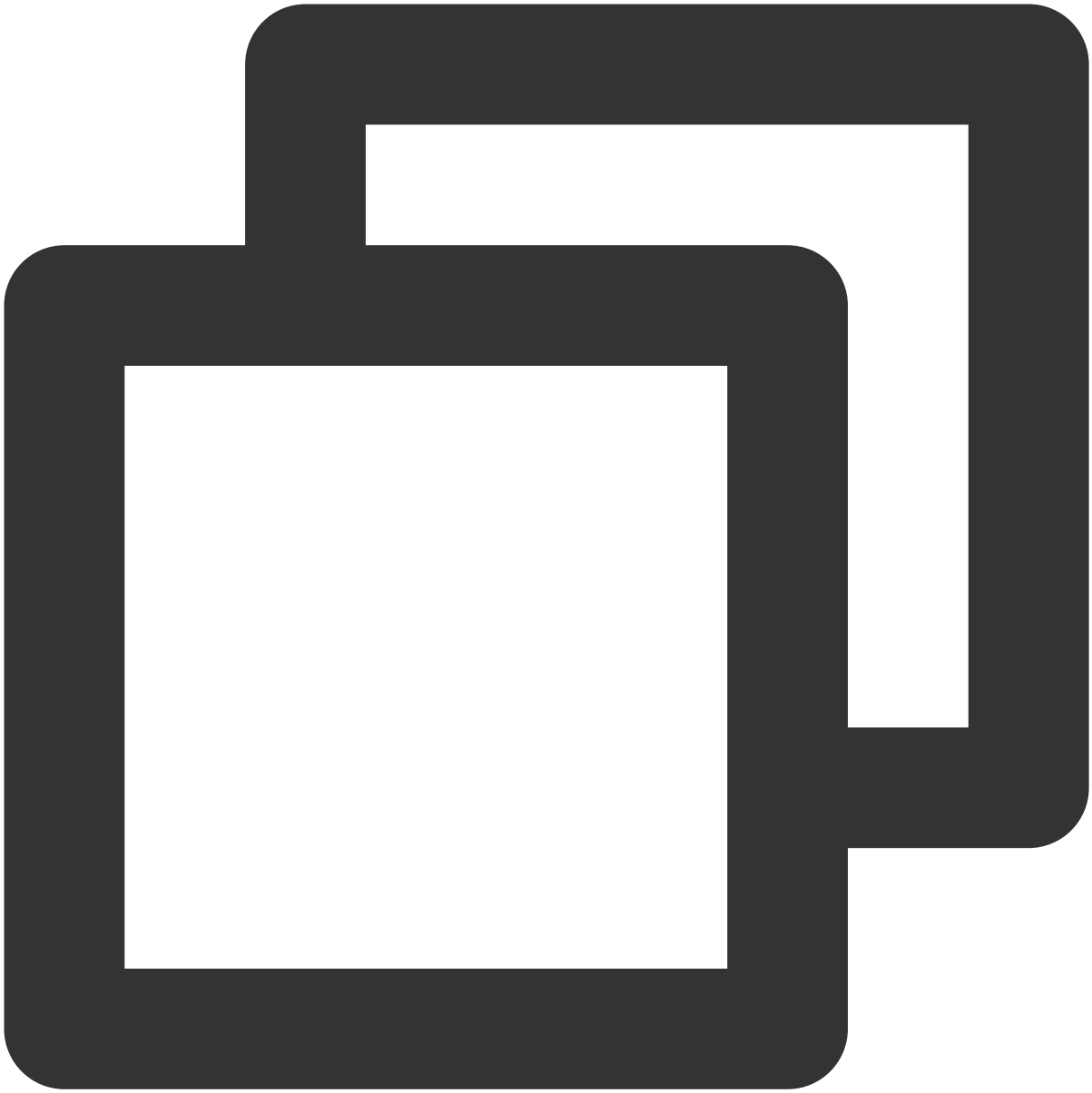
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```
func (s *CIService) OpenOriginProtect(ctx context.Context) (*Response, error)
```

Sample request

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```
_, err := c.CI.OpenOriginProtect(context.Background())
```

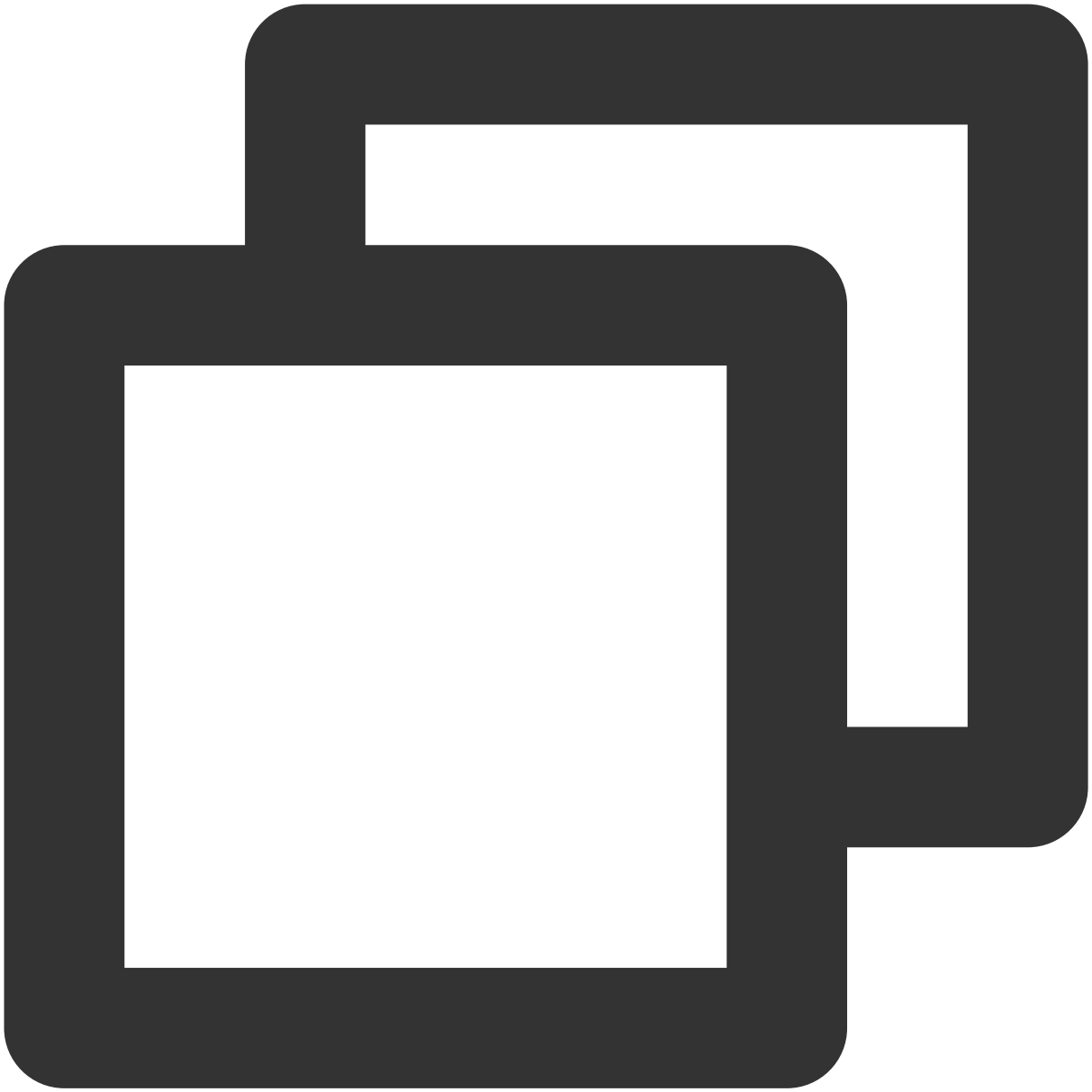
Querying Original Image Protection Status

Feature description

This API is used to query whether the original image protection feature is enabled.

Method prototype

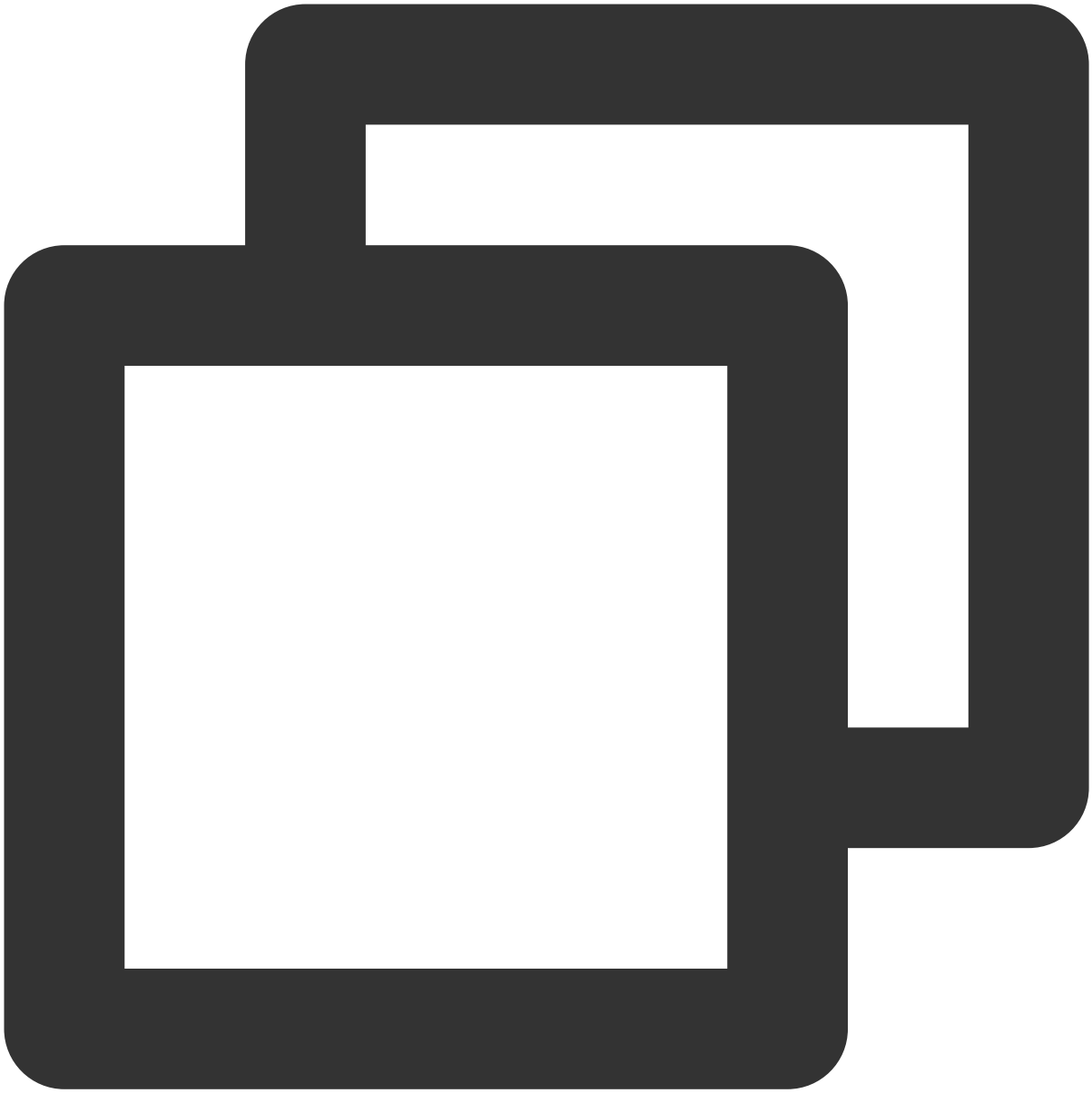
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```
func (s *CIService) GetOriginProtect(ctx context.Context) (*OriginProtectResult, *R
```

Sample request

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```
res, _, err := c.CI.GetOriginProtect(context.Background())
```

Parameter description

Parameter	Description
OriginProtectResult	Whether original image protection is enabled

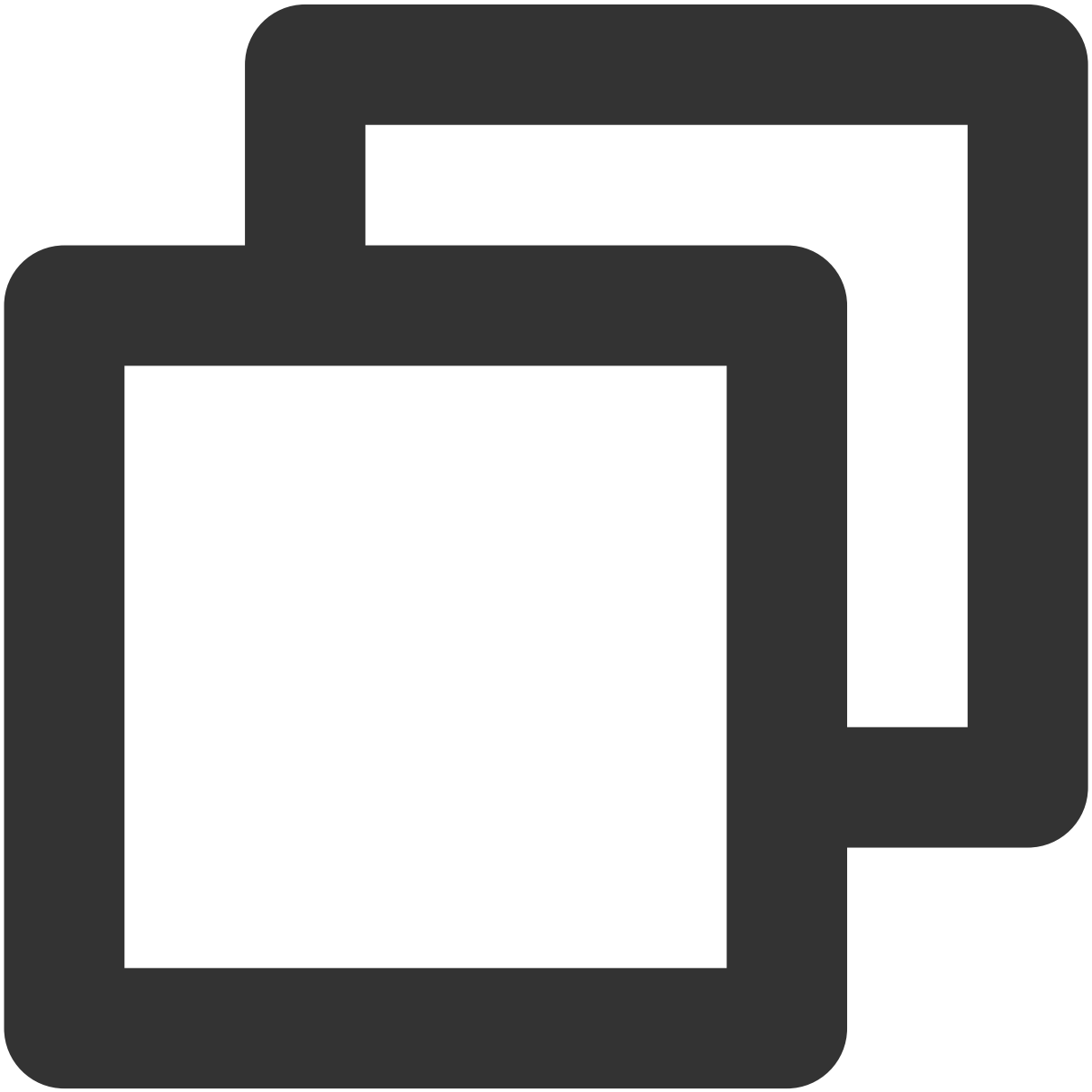
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Disabling Original Image Protection

Feature description

This API is used to disable the original image protection feature.

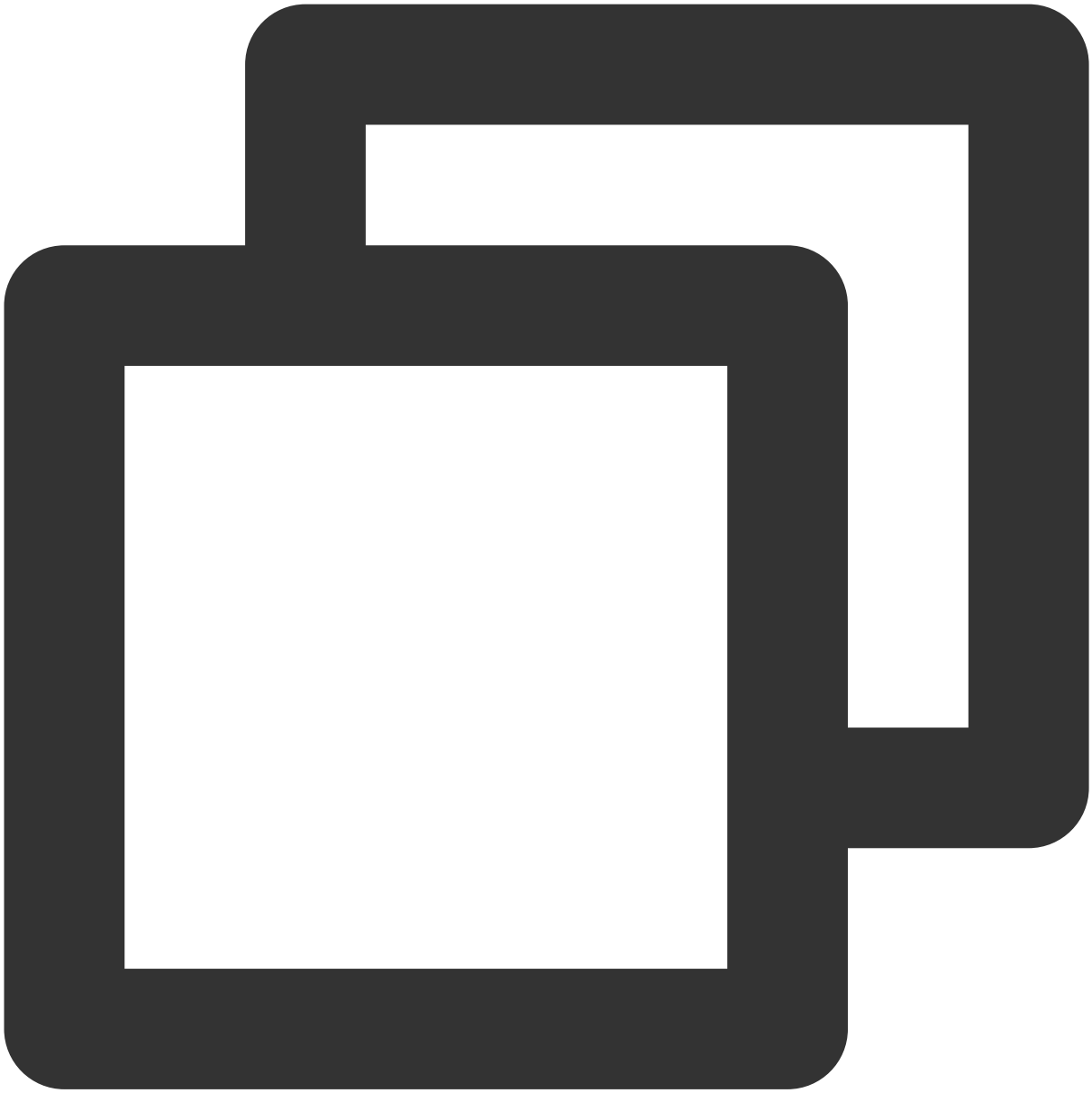
Method prototype



```
func (s *CIService) CloseOriginProtect(ctx context.Context) (*Response, error)
```

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Sample request



```
_, err := c.CI.CloseOriginProtect(context.Background())
```

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Media Processing
Media Bucket APIs

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for media buckets.

API	Operation	Description
DescribeMediaBuckets	Querying media processing activation status	Queries buckets with media processing enabled

Querying Media Processing Activation Status

Feature description

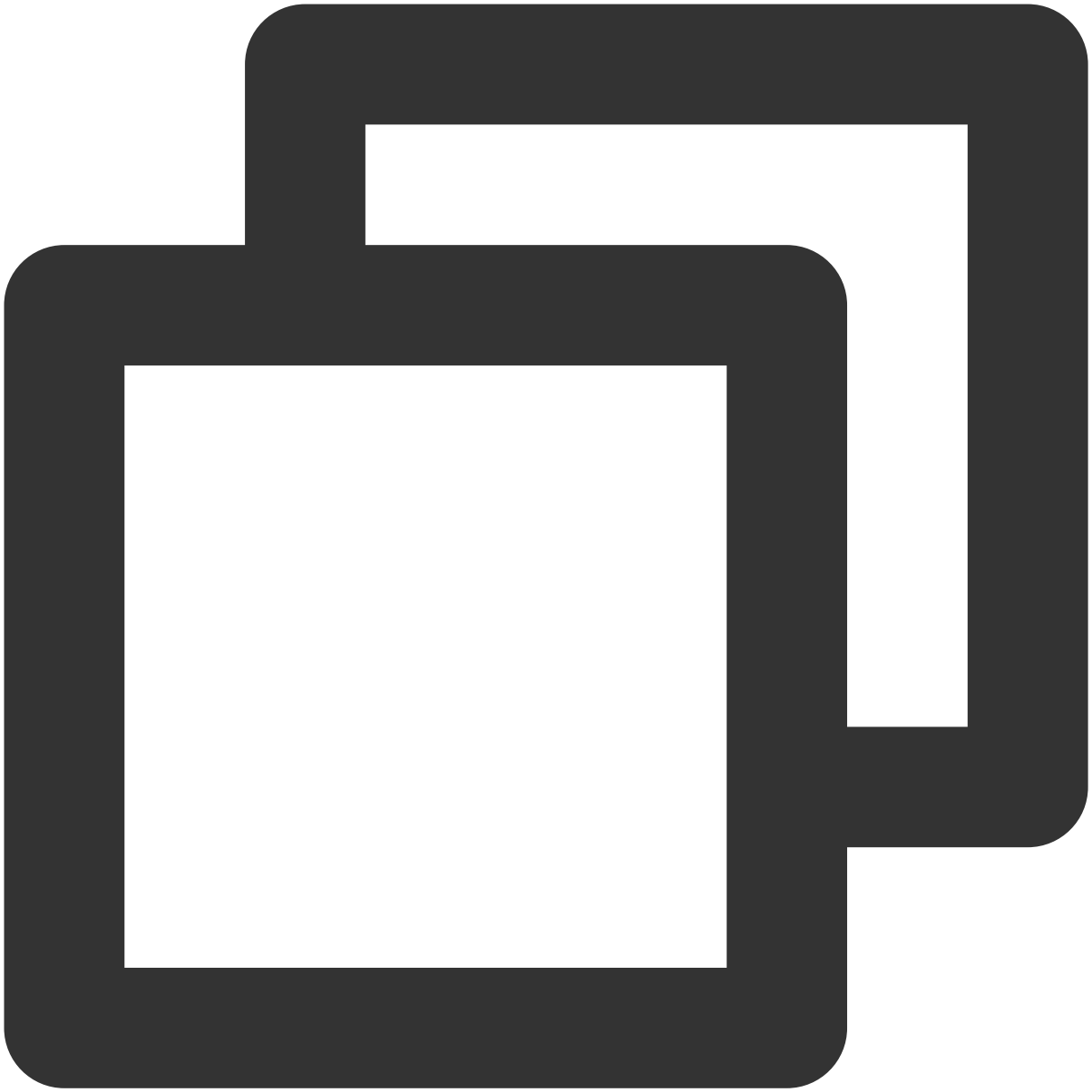
This API is used to query buckets with media processing enabled.

Note:

The COS Go SDK version must be at least v0.7.32.

Method prototype

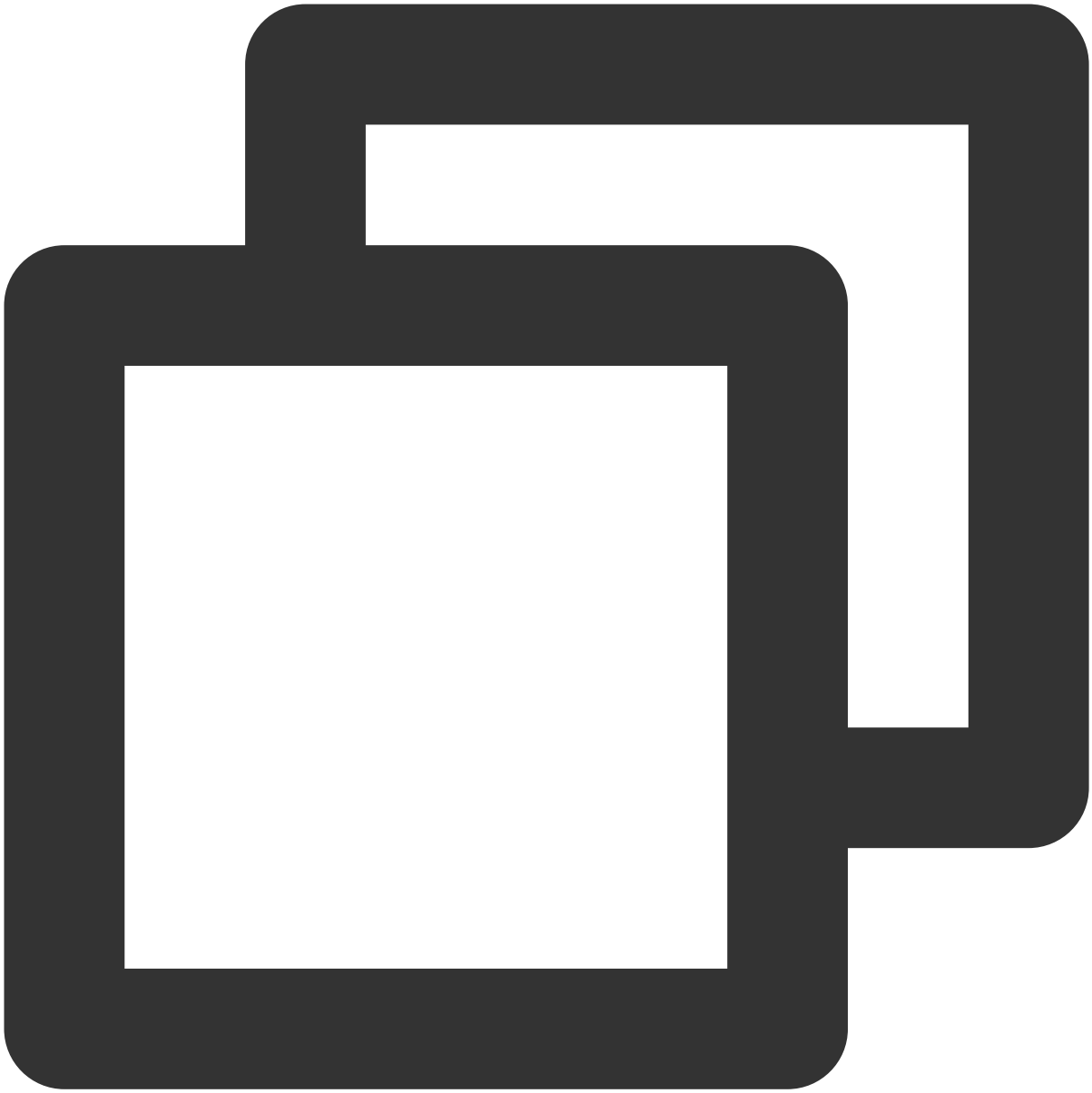
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```
func (s *CIService) DescribeMediaProcessBuckets(ctx context.Context, opt *DescribeM
```

Sample request

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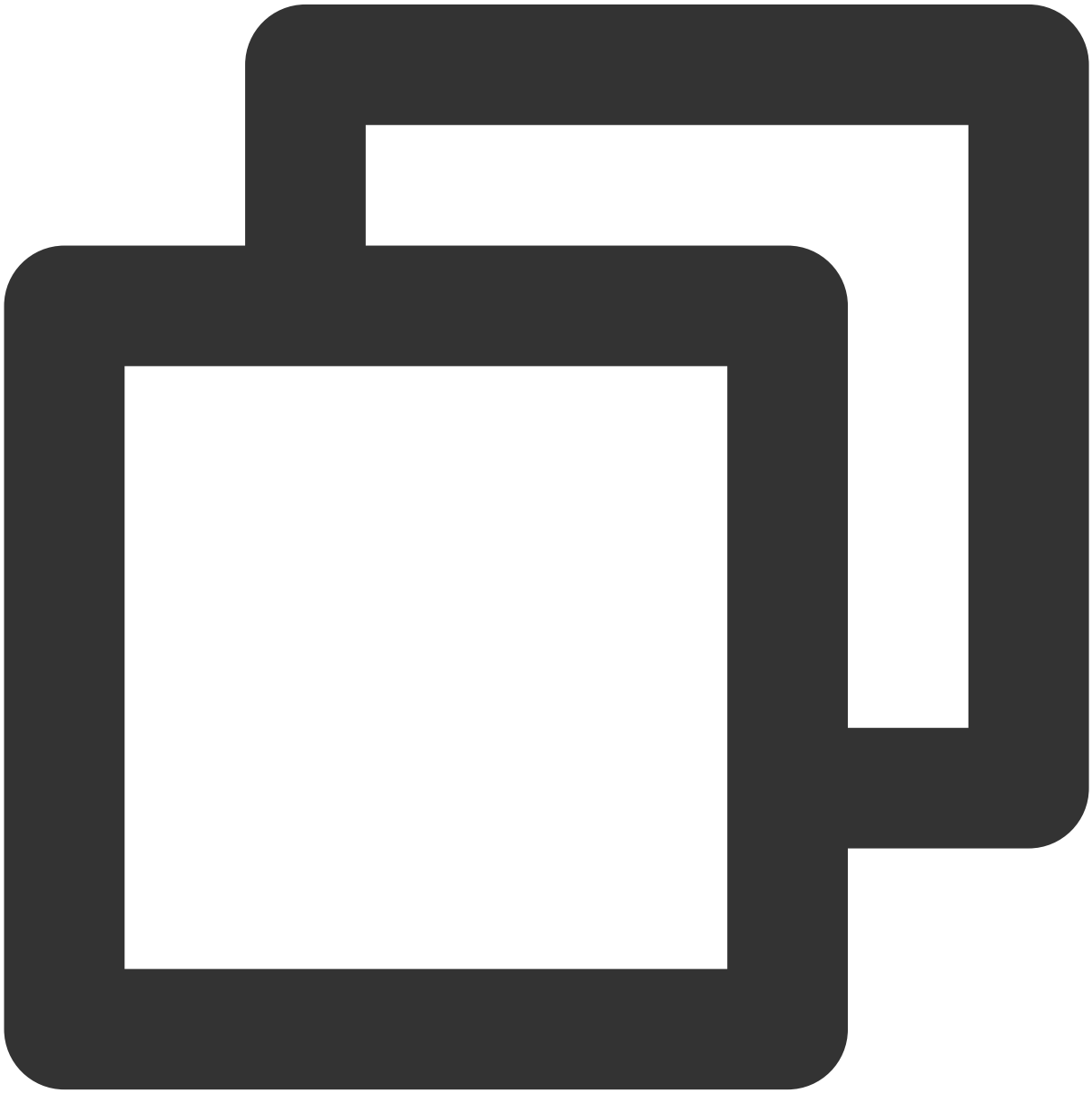
```
// Set the request URL to `ci.<Region>.myqcloud.com`
cu, _ := url.Parse("https://ci.ap-guangzhou.myqcloud.com")
b := &cos.BaseURL{CIURL: cu}
c := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
        SecretID:  "SECRETID",
        SecretKey: "SECRETKEY",
    })

opt := &cos.DescribeMediaProcessBucketsOptions{
    Regions: "ap-guangzhou",
```

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```
}
res, _, err := c.CI.DescribeMediaProcessBuckets(context.Background(), opt)
if err != nil {
    // ERROR
}
fmt.Printf("res: %+v\\n", res)
```

Parameter description



```
type DescribeMediaProcessBucketsOptions struct {
        Regions     string
```

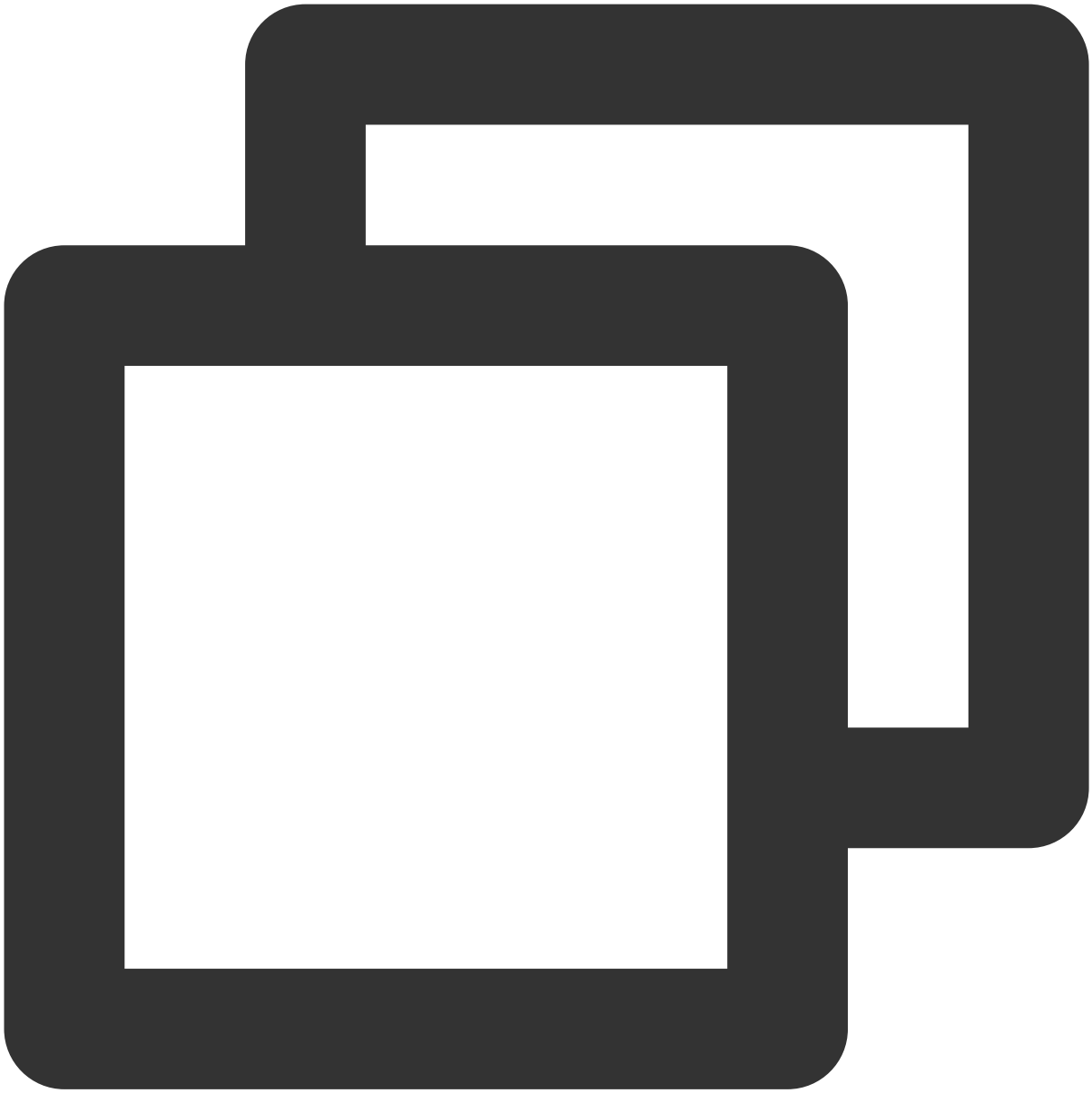
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```
        BucketNames string
        BucketName  string
        PageNumber  int
        PageSize    int
}
```

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 description

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```
type DescribeMediaProcessBucketsResult struct {
        RequestId       string
        TotalCount      int
        PageNumber      int
        PageSize        int
        MediaBucketList []MediaProcessBucket
}
type MediaProcessBucket struct {
        BucketId   string
        Region     string
        CreateTime string
```

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```
}
```

The nodes are as described below:

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	Creation time.	String

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Media Information APIs

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for media information.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

Querying File Information

Feature description

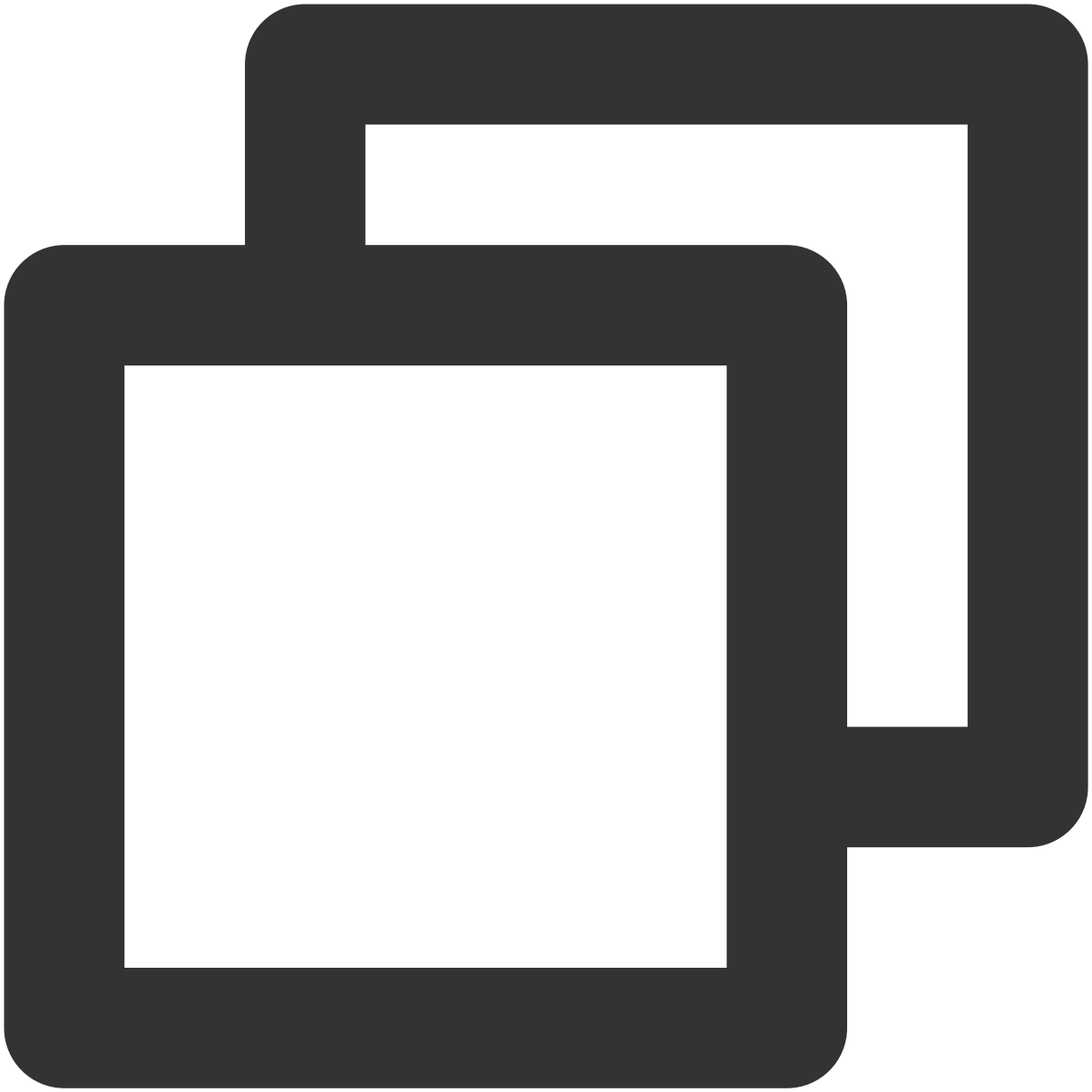
This API is used to query the information of a media file.

Note:

The COS Go SDK version must be at least v0.7.32.

Method prototype

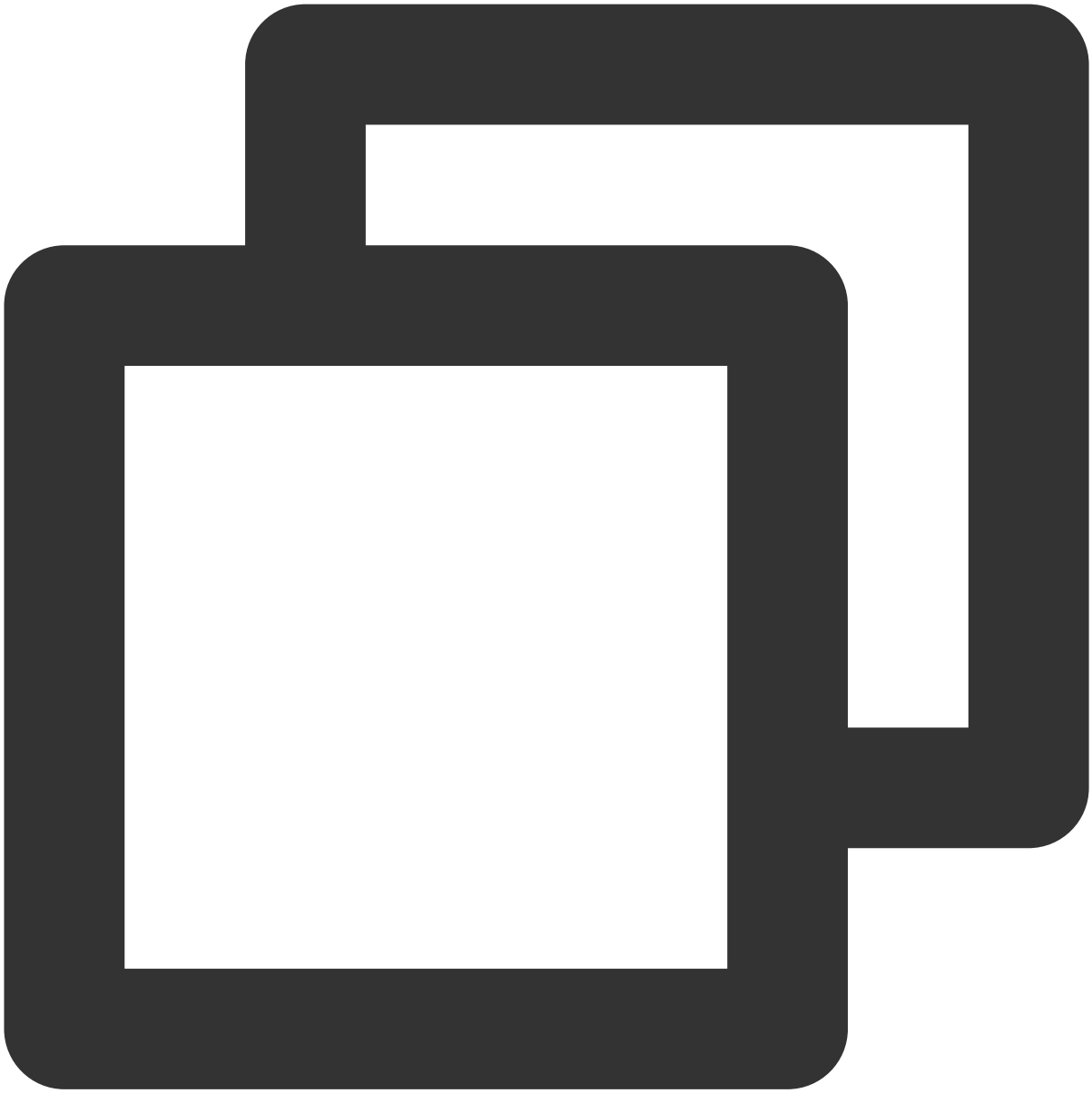
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```
func (s *CIService) GetMediaInfo(ctx context.Context, name string, opt *ObjectGetOp
```

Sample request

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```
res, _, err := c.CI.GetMediaInfo(context.Background(), "test.mp4", nil)
if err != nil {
    // ERROR
}
fmt.Printf("res: %+v\\n", res)
```

Parameter description

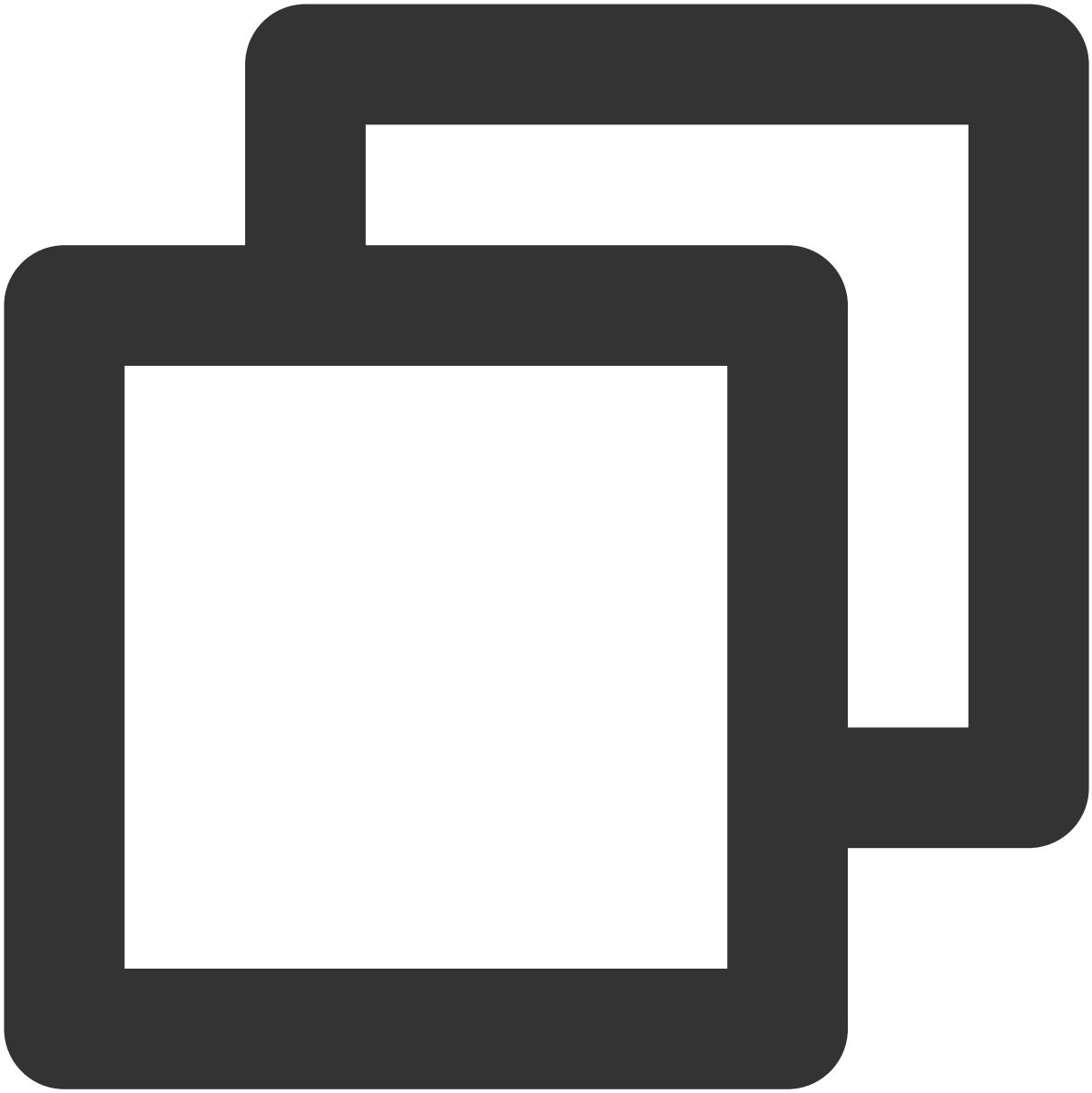
Parameter	Description	Type	Required

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name	Unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	name	Yes
opt	Common request headers and parameters. For more information, see Cloud Object Storage.	struct	No
id	Object `VersionId` for versioning.	string	No

Response description

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```
type GetMediaInfoResult struct {
    XMLName   xml.Name
    MediaInfo struct {
        Format struct {
            Bitrate        float32
            Duration       float32
            FormatLongName string
            FormatName     string
            NumProgram     int
            NumStream      int
            Size           int
```

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```
            StartTime      float32
        }
        Stream struct {
            Audio []struct {
                Index          int
                CodecName      string
                CodecLongName  string
                CodecTimeBase  string
                CodecTagString string
                CodecTag       string
                SampleFmt      string
                SampleRate     int
                Channel        int
                ChannelLayout  string
                Timebase       string
                StartTime      float32
                Duration       float32
                Bitrate        float32
                Language       string
            }
            Subtitle struct {
                Index    int
                Language string
            }
            Video struct {
                Index          int
                CodecName      string
                CodecLongName  string
                CodecTimeBase  string
                CodecTagString string
                CodecTag       string
                Profile        string
                Height         int
                Width          int
                HasBFrame      int
                RefFrames      int
                Sar            string
                Dar            string
                PixFormat      string
                FieldOrder     string
                Level          int
                Fps            float32
                AvgFps         string
                Timebase       string
                StartTime      float32
                Duration       float32
                Bitrate        float32
```

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```
                NumFrames       int
                Language        string
            }
        }
    }
}
```

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
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	Subtitles 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
NumProgram	Response.MediaInfo. Format	Number of programs.	Int

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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
Profile	Response.MediaInfo.Stream.Video	Video codec profile.	String
Height	Response.MediaInfo.Stream.Video	Video height in px.	Int

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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
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.	Int
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

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`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
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

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Media Screenshot APIs

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for media screenshot.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

Querying Screenshot

Feature description

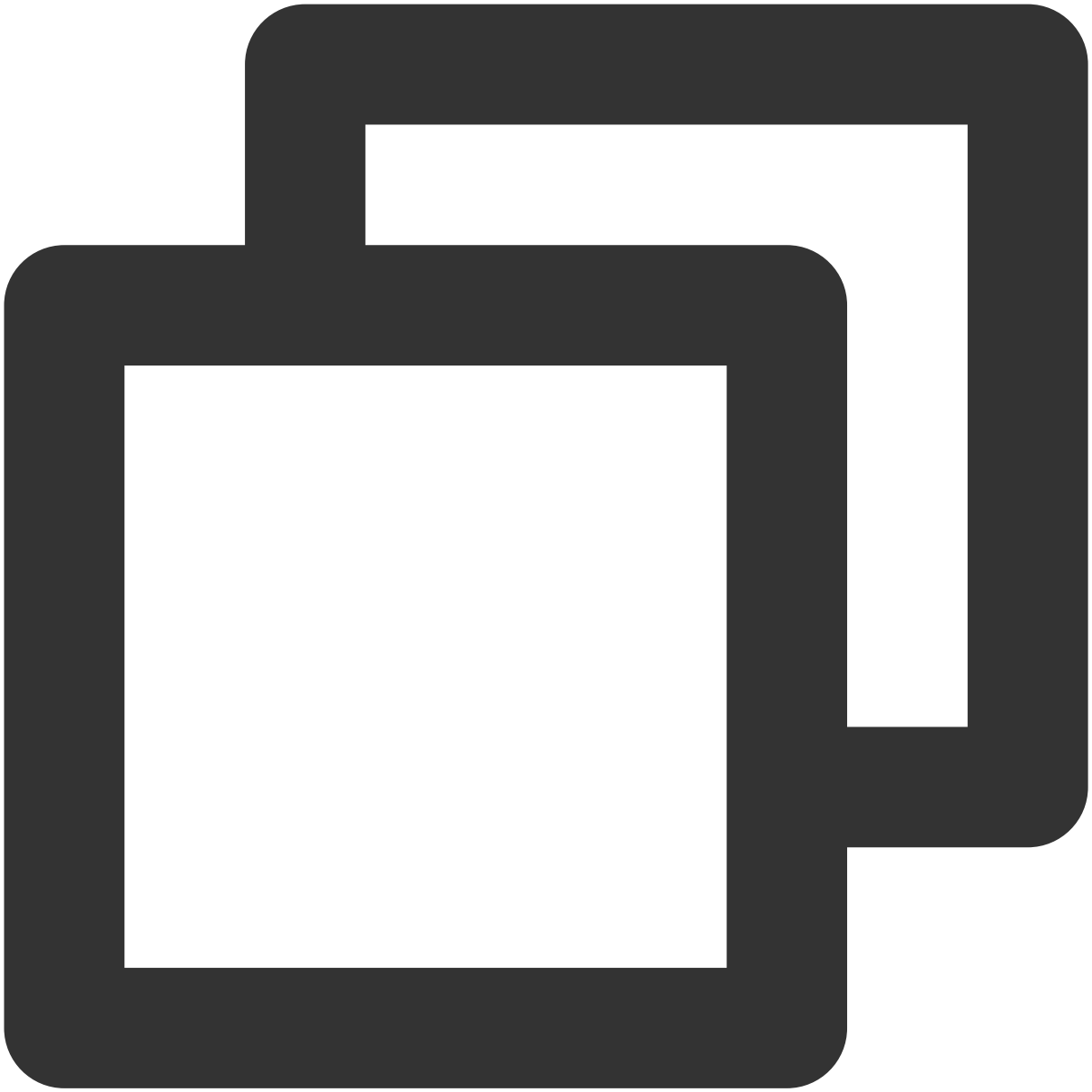
This API is used to query the screenshot of a media file at some time point.

Note:

The COS Go SDK version must be at least v0.7.32.

Method prototype

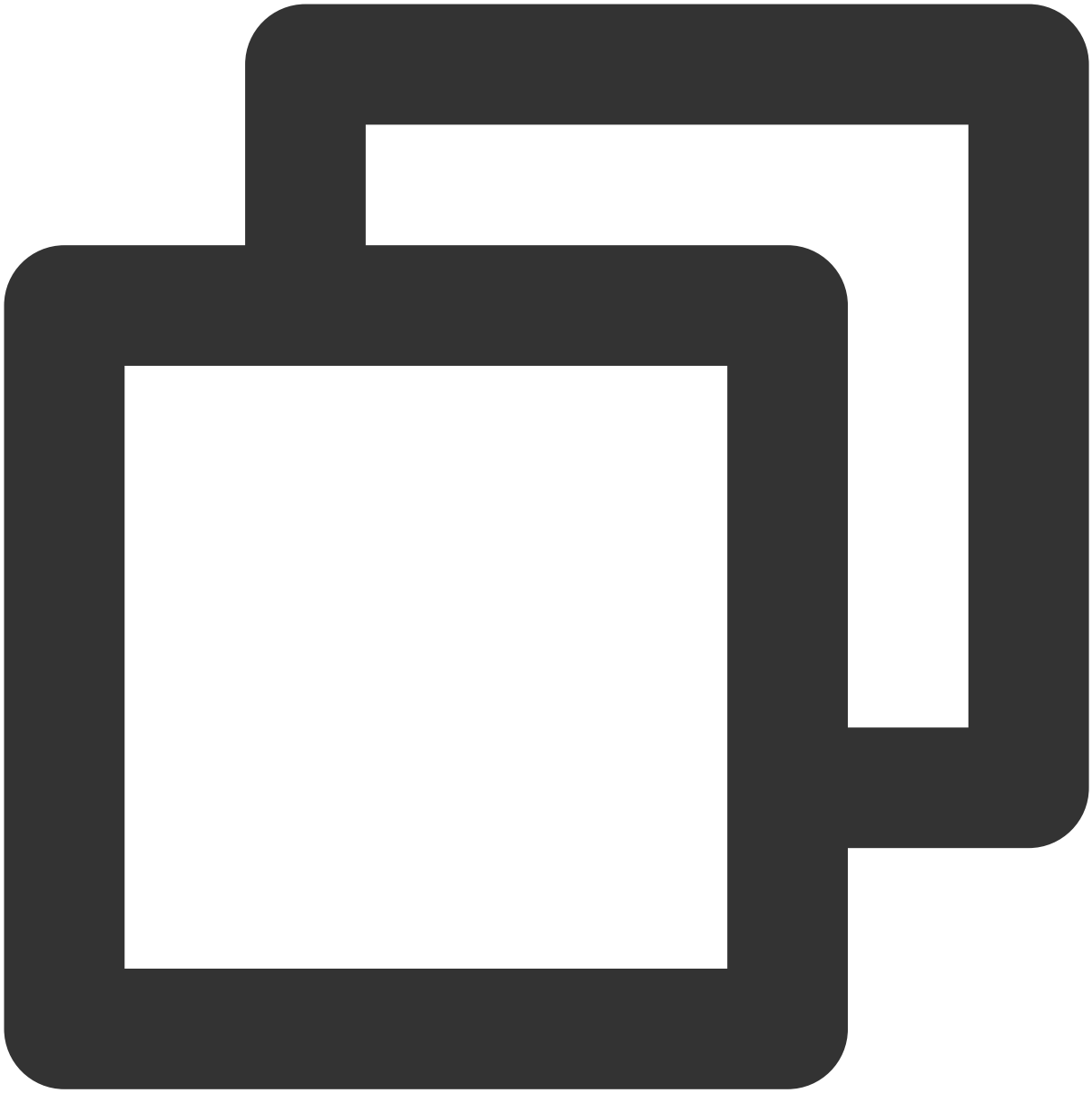
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```
func (s *CIService) GetSnapshot(ctx context.Context, name string, opt *GetSnapshotO
```

Sample request

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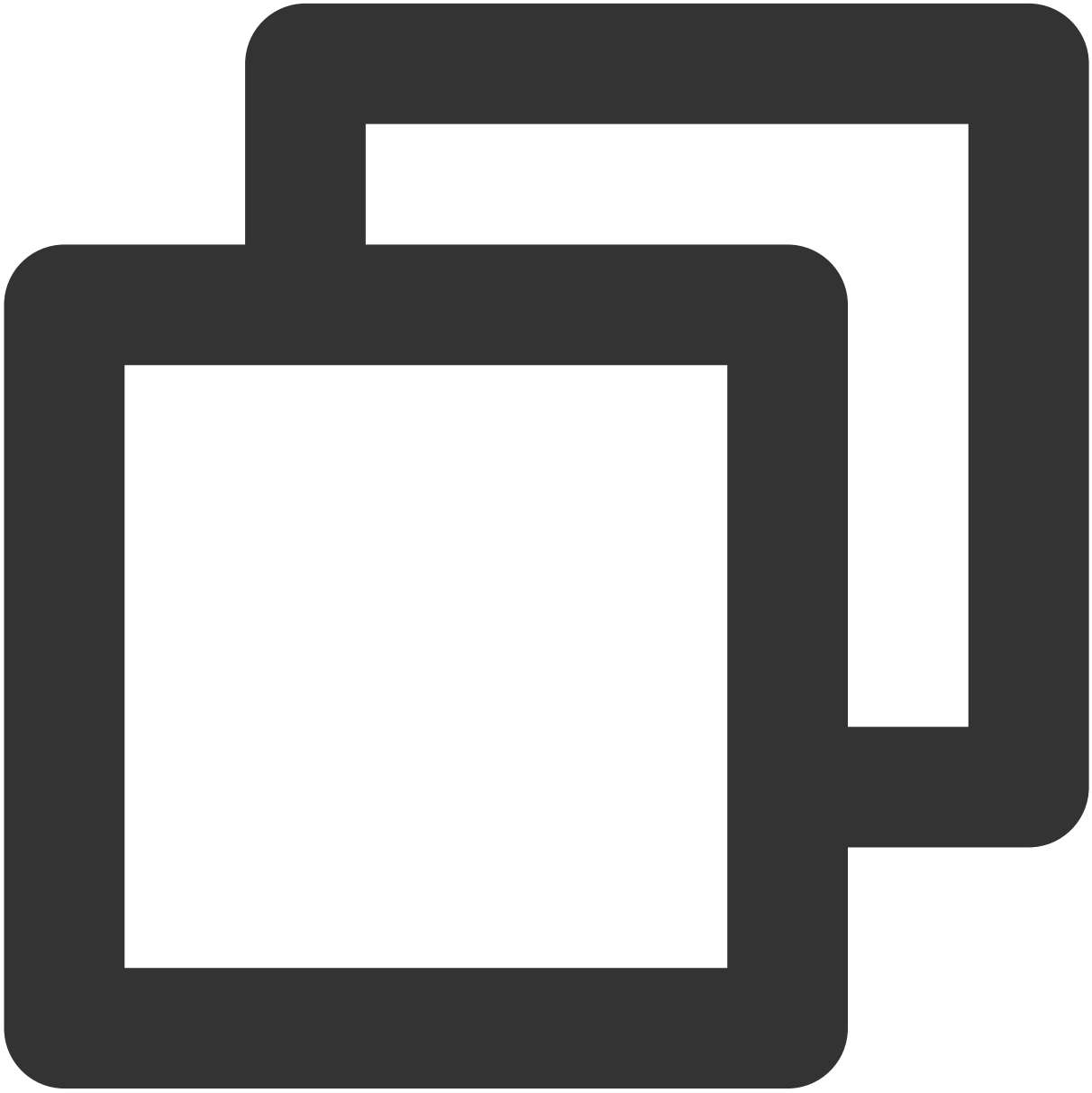
```
opt := &cos.GetSnapshotOptions{
    Time: 1,
}
resp, err := c.CI.GetSnapshot(context.Background(), "test.mp4", opt)
if err != nil {
    // ERROR
}

fd, err := os.OpenFile("test.jpg", os.O_WRONLY|os.O_CREATE|os.O_TRUNC, 0660)
if err != nil {
    // ERROR
```

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```
}
_, err = io.Copy(fd, resp.Body)
fd.Close()
```

Parameter description



```
type GetSnapshotOptions struct {
    Time   float32
    Height int
    Width  int
    Format string
```

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```
    Rotate string
    Mode   string
}
```

Parameter	Description	Required	Type
name	Unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes	name
opt	Screenshot parameter.	No	struct
id	Object `VersionId` for versioning.	No	String
Time	Screenshot time point in seconds.	Yes	float
Width	Screenshot width. Default value: 0.	No	Int
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.	No	Int
Format	Screenshot format. Valid values: jpg, png. Default value: jpg.	No	String
Rotate	Image rotation method. auto: Rotate automatically according to the video rotation information. off: Do not rotate. Default value: auto.	No	String
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.	No	String

Response description

Parameter	Description	Required	Type
Response	HTTP response.	Yes	Struct
Response.Header	HTTP response header.	Yes	Struct
Response.Body	HTTP response body.	Yes	Struct

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File Preview
Querying Document Preview Feature Status

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for querying the document preview feature status.

API	Description
Querying document preview feature status	Queries whether the document preview feature is enabled for a bucket.

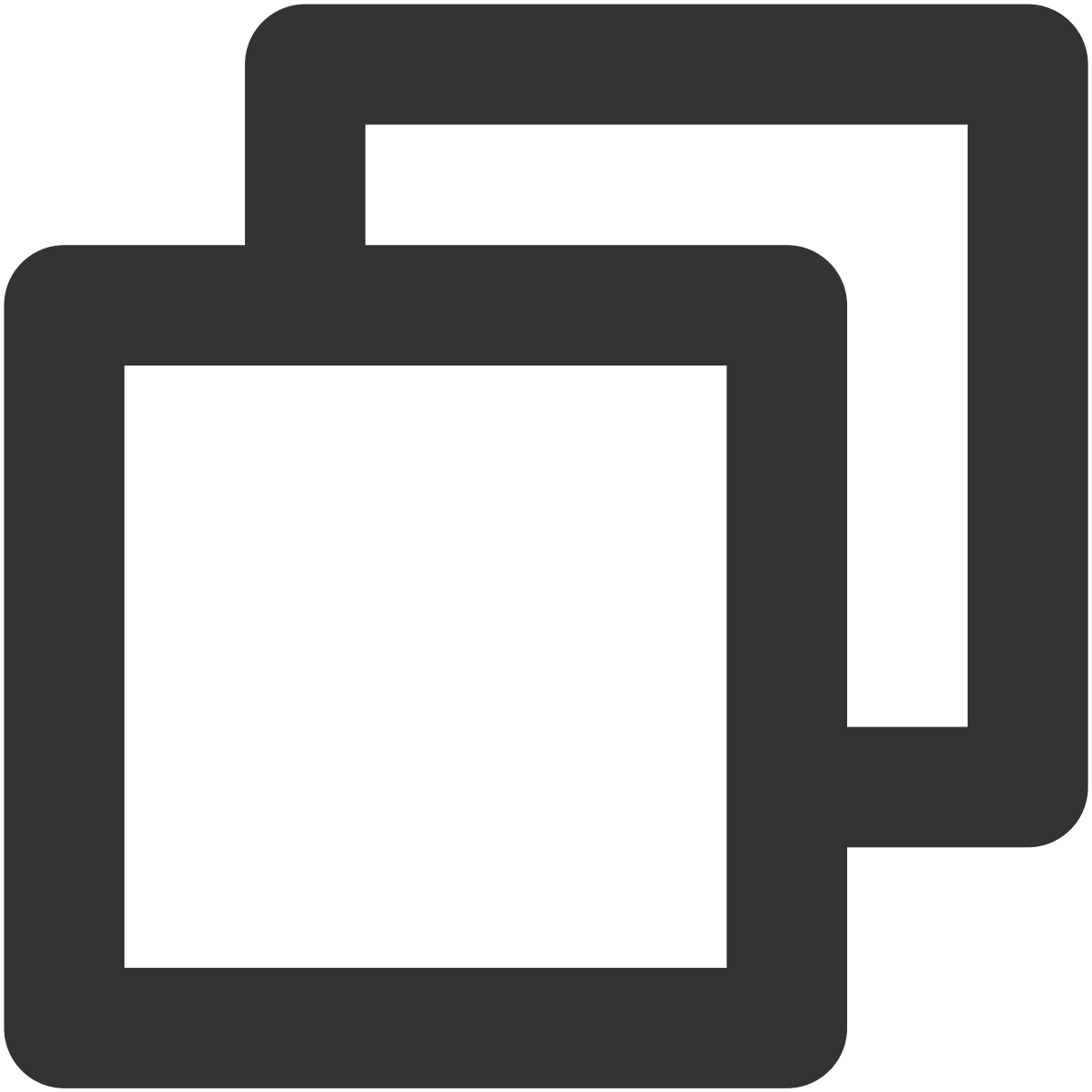
Querying Document Preview Feature Status

Feature description

This API (`DescribeDocProcessBuckets`) is used to query whether the document preview feature is enabled for a bucket.

Method prototype

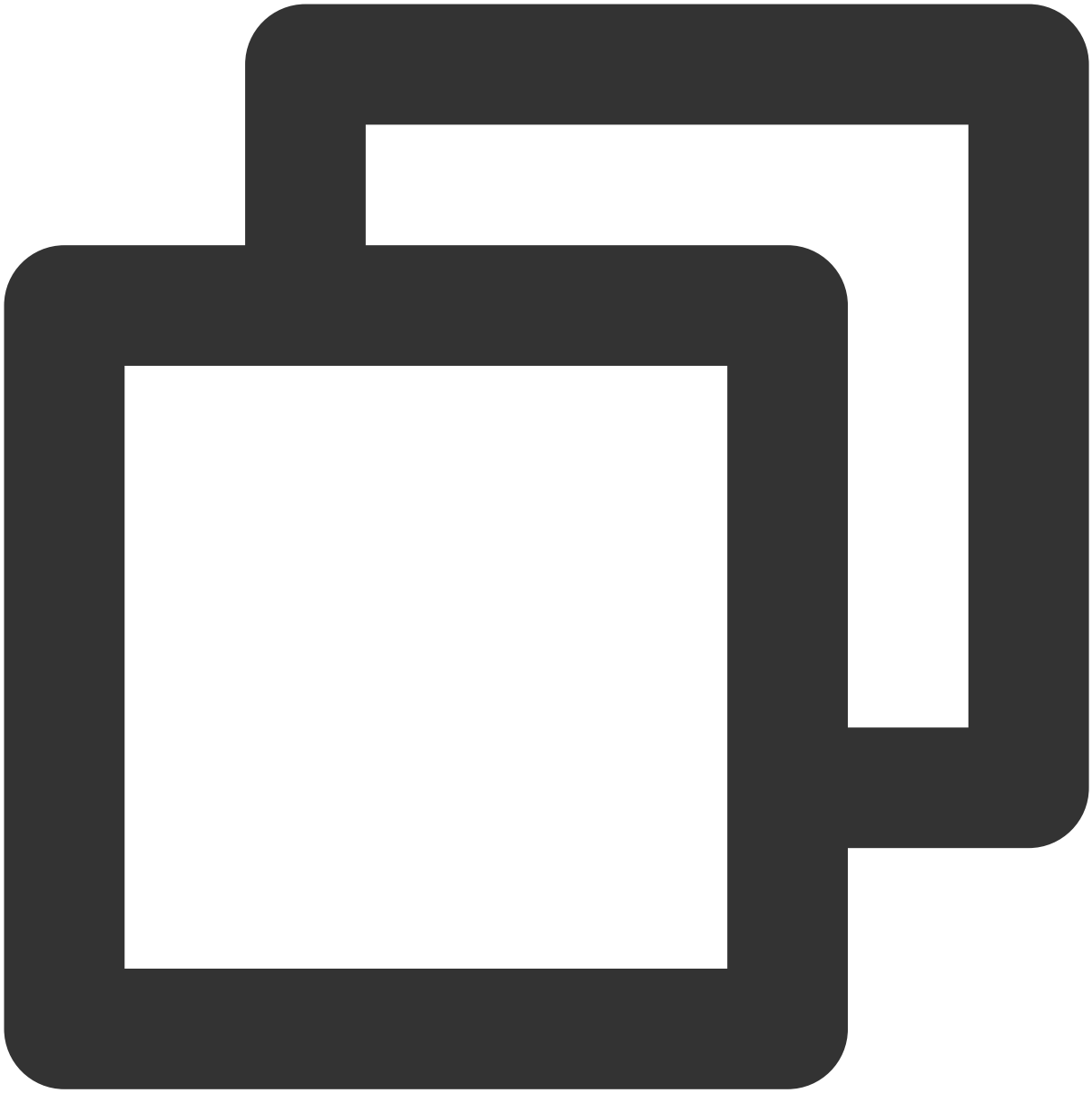
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```
func (s *CIService) DescribeDocProcessBuckets(ctx context.Context, opt *DescribeDoc
```

Sample request

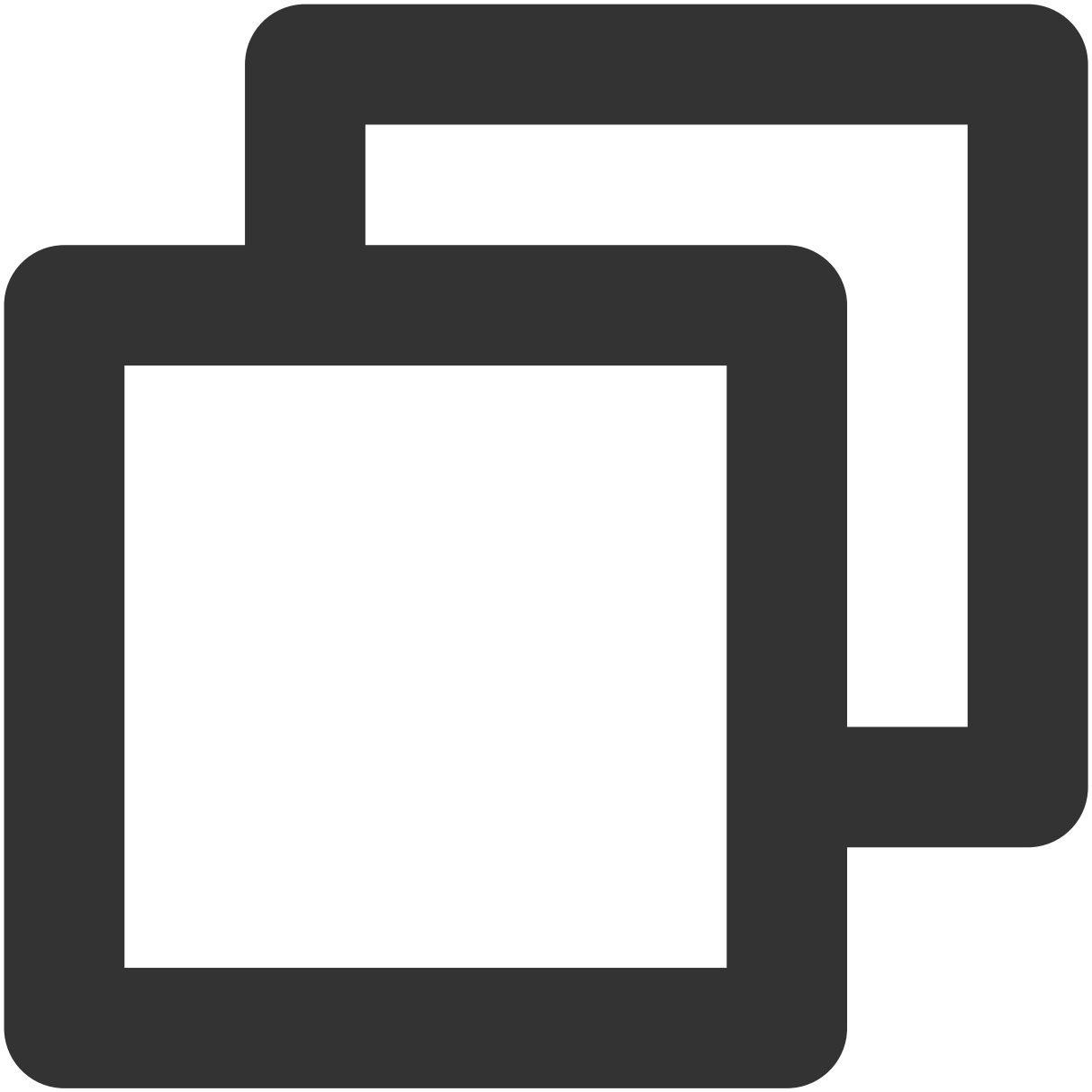
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```
BucketsOpt := &cos.DescribeDocProcessBucketsOptions{
    Regions: "ap-shanghai",
}
res, _, err := c.CI.DescribeDocProcessBuckets(context.Background(), BucketsOpt)
```

Parameter description

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```
type DescribeDocProcessBucketsOptions struct {
    Regions     string
    BucketNames string
    BucketName  string
    PageNumber  int
    PageSize    int
}
```

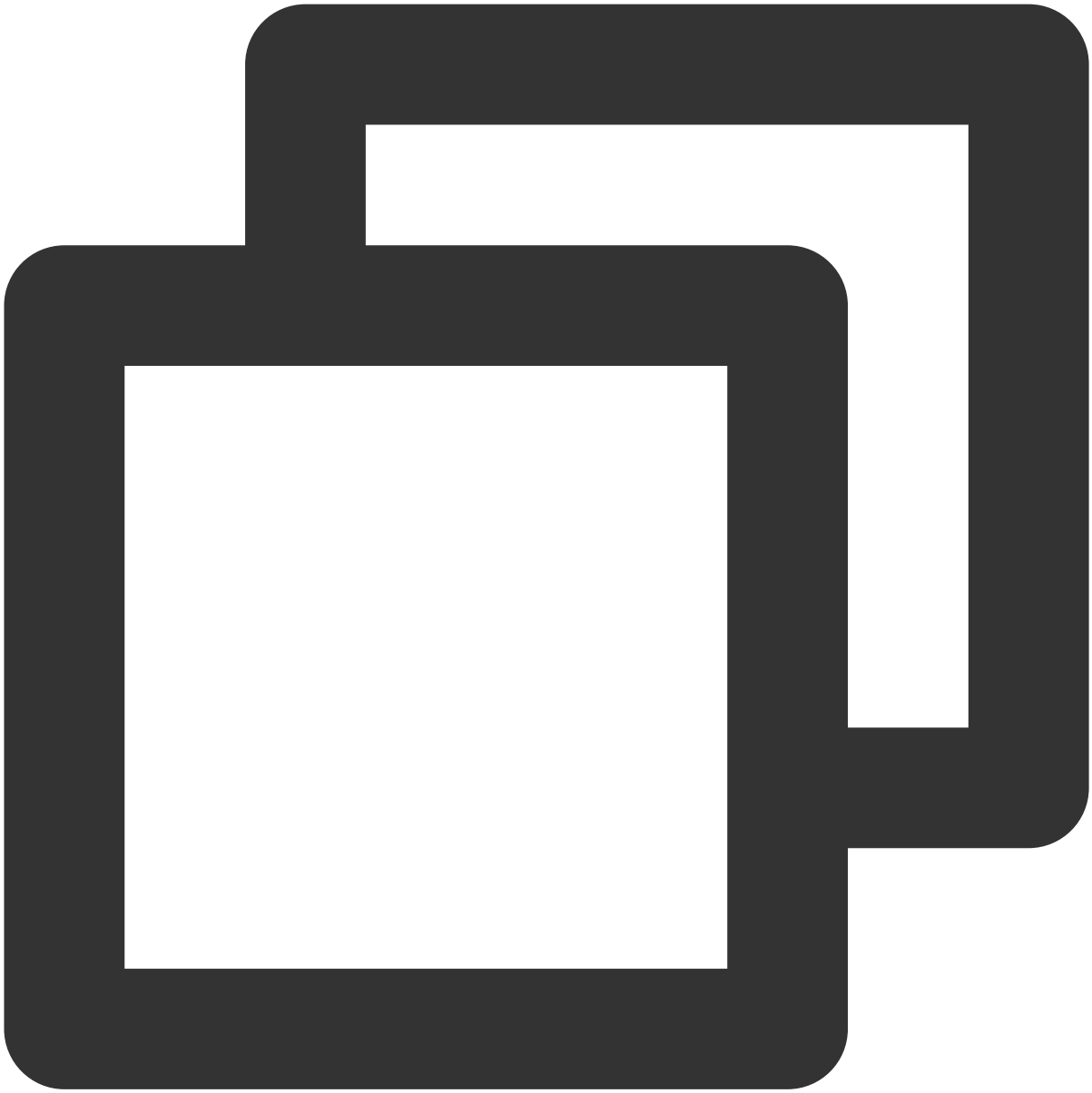
Parameter	Description	Type

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Regions	Region abbreviation, such as `ap-shanghai` and `ap-beijing`. To specify multiple regions, separate them with commas (,). For more information, see Regions and Domains.	string
BucketNames	Bucket name. To specify multiple bucket names, separate them with commas (,). Exact search is supported.	string
BucketName	Bucket name prefix for prefix search	string
PageNumber	Page number	int
pageSize	Number of entries per page	int

Response description

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```
type DescribeDocProcessBucketsResult struct {
    RequestId     string
    TotalCount    int
    PageNumber    int
    PageSize      int
    DocBucketList []DocProcessBucket
}
type DocProcessBucket struct {
    BucketId      string
    Name          string
    Region        string
```

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```
    CreateTime    string
    AliasBucketId string
}
```

Parameter	Description	Type
RequestId	Unique request ID	string
TotalCount	Total number of buckets with document preview enabled	int
PageNumber	Current page number, which is the same as `pageNumber` in the request	int
PageSize	Number of entries per page, which is the same as `pageSize` in the request	int
DocBucketList	List of buckets with document preview enabled	Container
BucketId	Bucket ID	string
Name	Bucket name, which is the same as `BucketId`	string
Region	Region	string
CreateTime	Creation time	string
AliasBucketId	Bucket alias	string

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Sync Request API

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for sync requests for document preview.

API	Description
Sync request API	Submits a sync request for document preview.

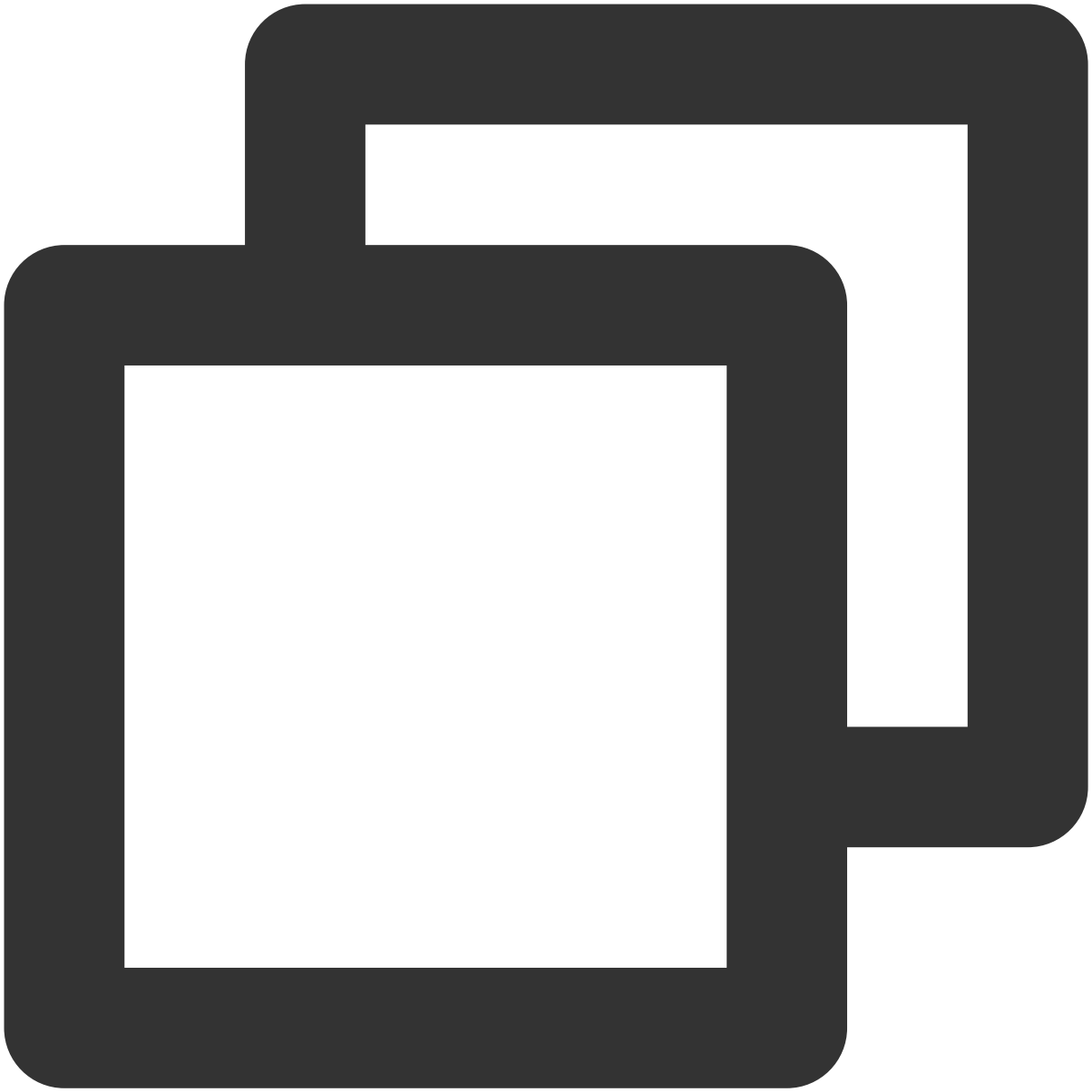
Sync Request API

Feature description

This API is used to submit a sync request for document preview.

Method prototype

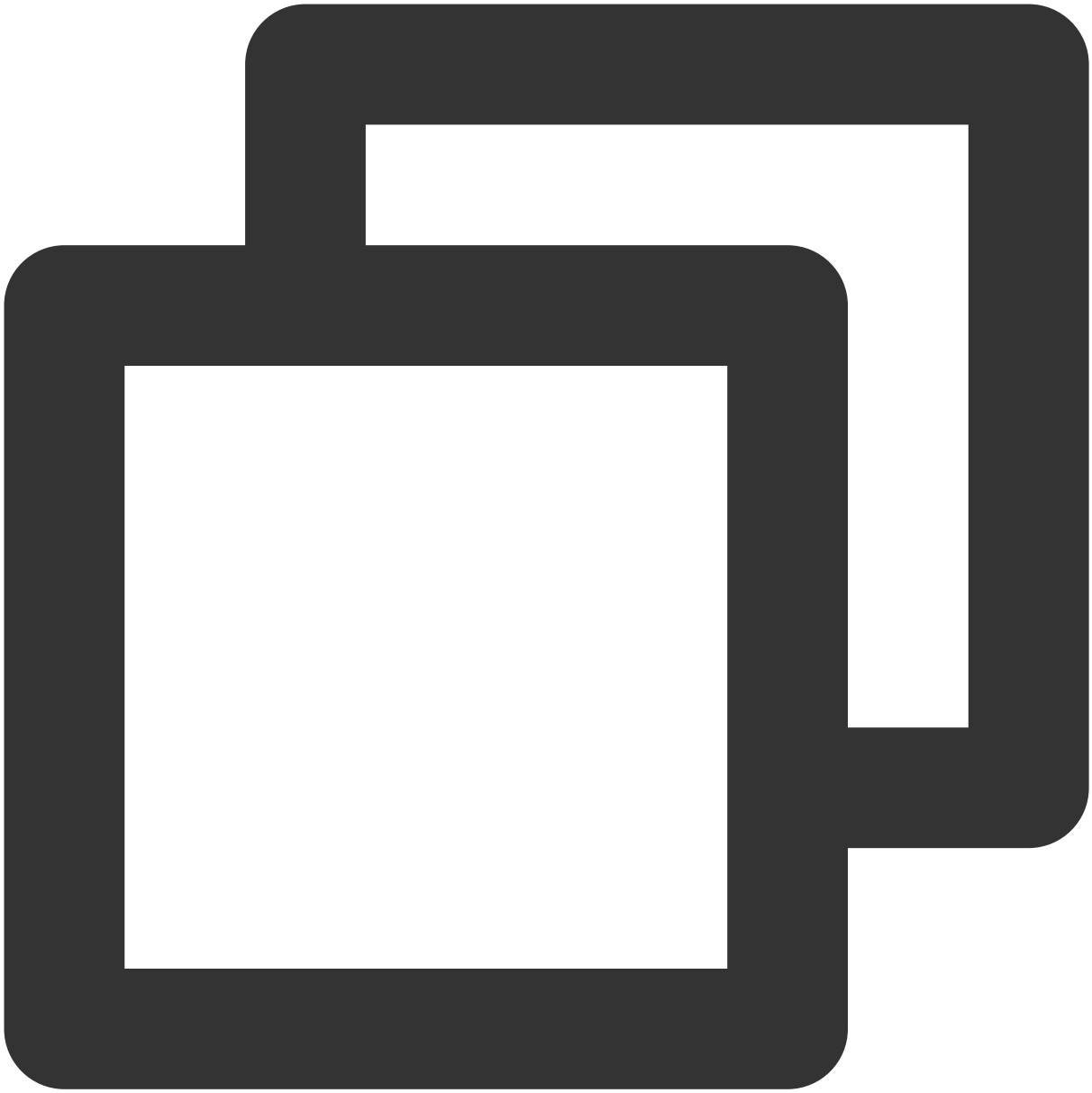
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```
func (s *CIService) DocPreview(ctx context.Context, name string, opt *DocPreviewOpt
```

Sample request

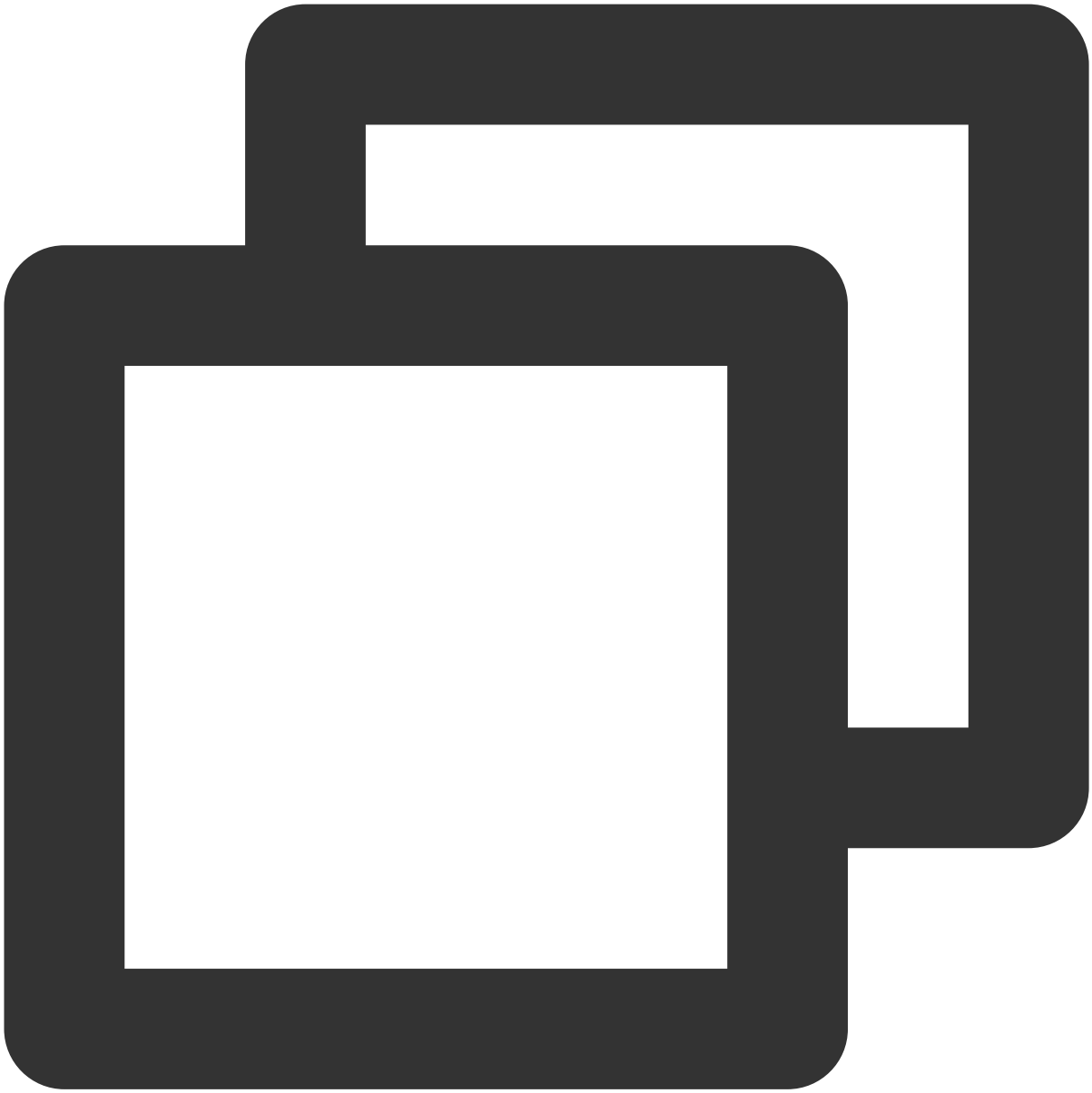
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```
opt := &cos.DocPreviewOptions{
    Page: 1,
}
resp, err := c.CI.DocPreview(context.Background(), "form.pdf", opt)
```

Parameter description

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```
type DocPreviewOptions struct {
    SrcType             string
    Page                int
    ImageParams         string
    Sheet               int
    DstType             string
    Password            string
    Comment             int
    ExcelPaperDirection int
    Quality             int
    Zoom                int
```

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```
}
```

Parameter	Description	Type
name	Object name, such as `folder/document.pdf`	String
SrcType	Source data type. Currently, the document 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
page	Number of the document page to be converted, which is counted from 1 by default. For spreadsheets, `page` indicates the number of the part in the specified sheet to be converted.	int
ImageParams	Processing parameters for the output image. All parameters of basic image processing are supported. To specify multiple parameters, separate them with pipeline operators. In this way, the image can be processed based on multiple parameters in sequence in the same request.	String
Sheet	Spreadsheet parameter, indicating the number of the sheet to be converted. Default value: 1	int
DstType	Output file extension. Valid values: png jpg pdf If the specified value cannot be recognized, `jpg` is used.	String
Password	Password to open the Office document. If you need to convert a password-protected document, set this parameter.	String
Comment	Whether to hide comments and tracked changes. 0 (default): Hide comments and tracked changes. 1: Show comments and tracked changes.	int
ExcelPaperDirection	Paper orientation of the spreadsheet. 0 (default): Vertical; other values: Horizontal	int
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
Zoom	Scaling parameter of the preview image. Value range: [10-200]. Default value: 100.	int

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	For example, if the value is `200`, the image will be zoomed in (enlarged) by 200%.	

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Async Processing Queue APIs

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for file preview queues.

API	Operation	Description
DescribeDocProcessQueues	Querying file preview queues	Queries specified file preview queues.
UpdateDocProcessQueue	Updating file preview queue	Updates specified file preview queue.

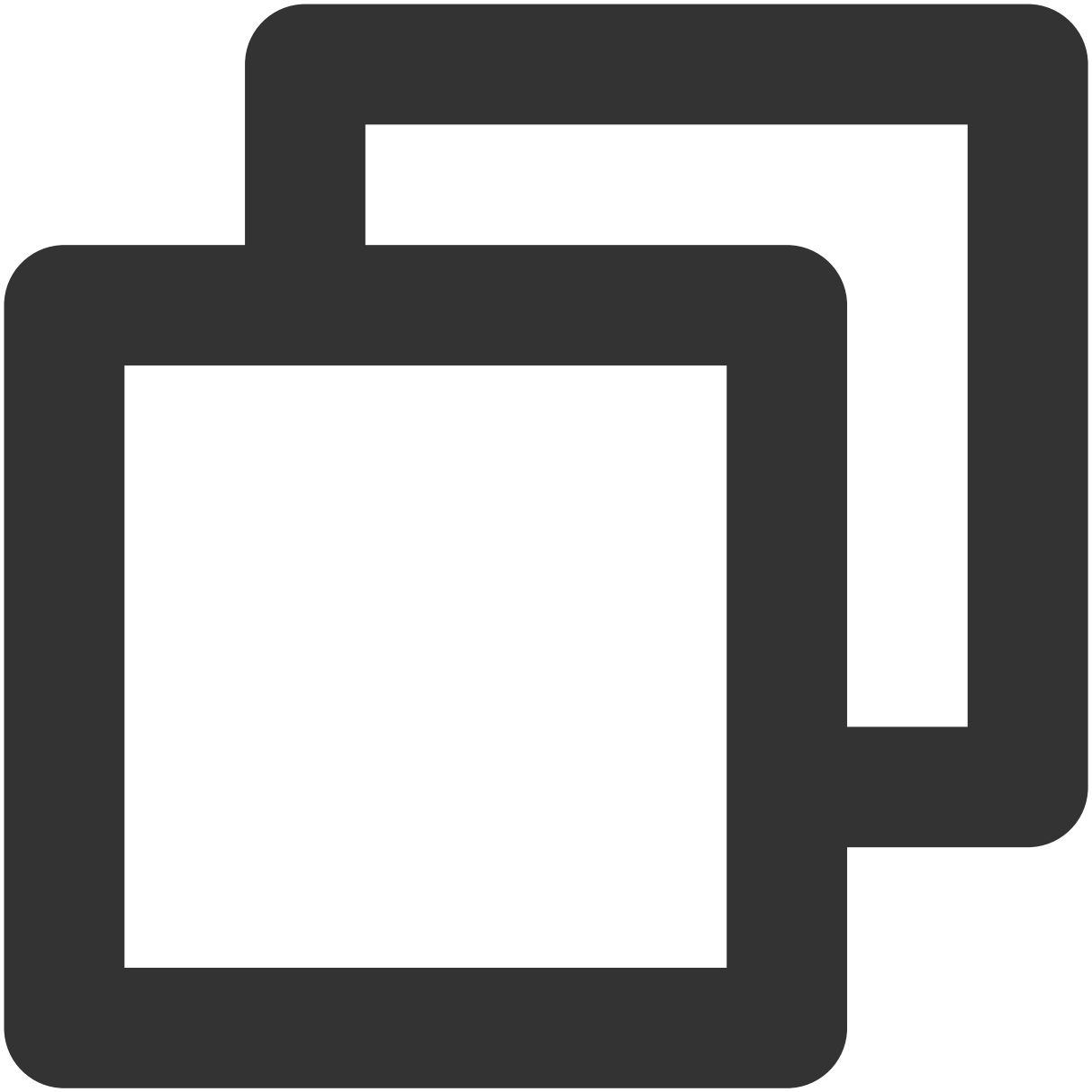
Querying File Preview Queue

Feature description

This API (`DescribeDocProcessQueues`) is used to query file preview queues.

Method prototype

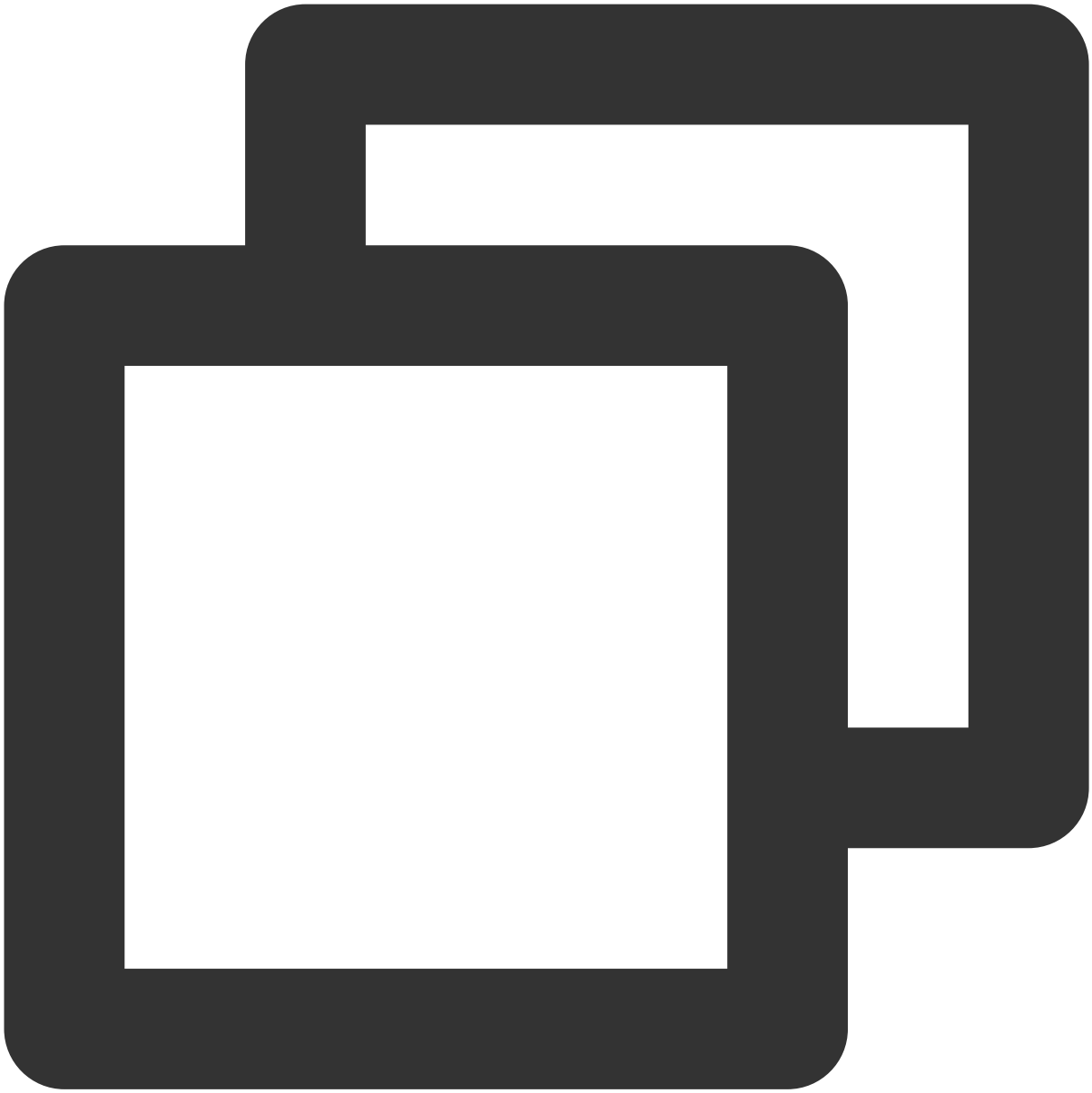
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```
func (s *CIService) DescribeDocProcessQueues(ctx context.Context, opt *DescribeDocP
```

Sample request

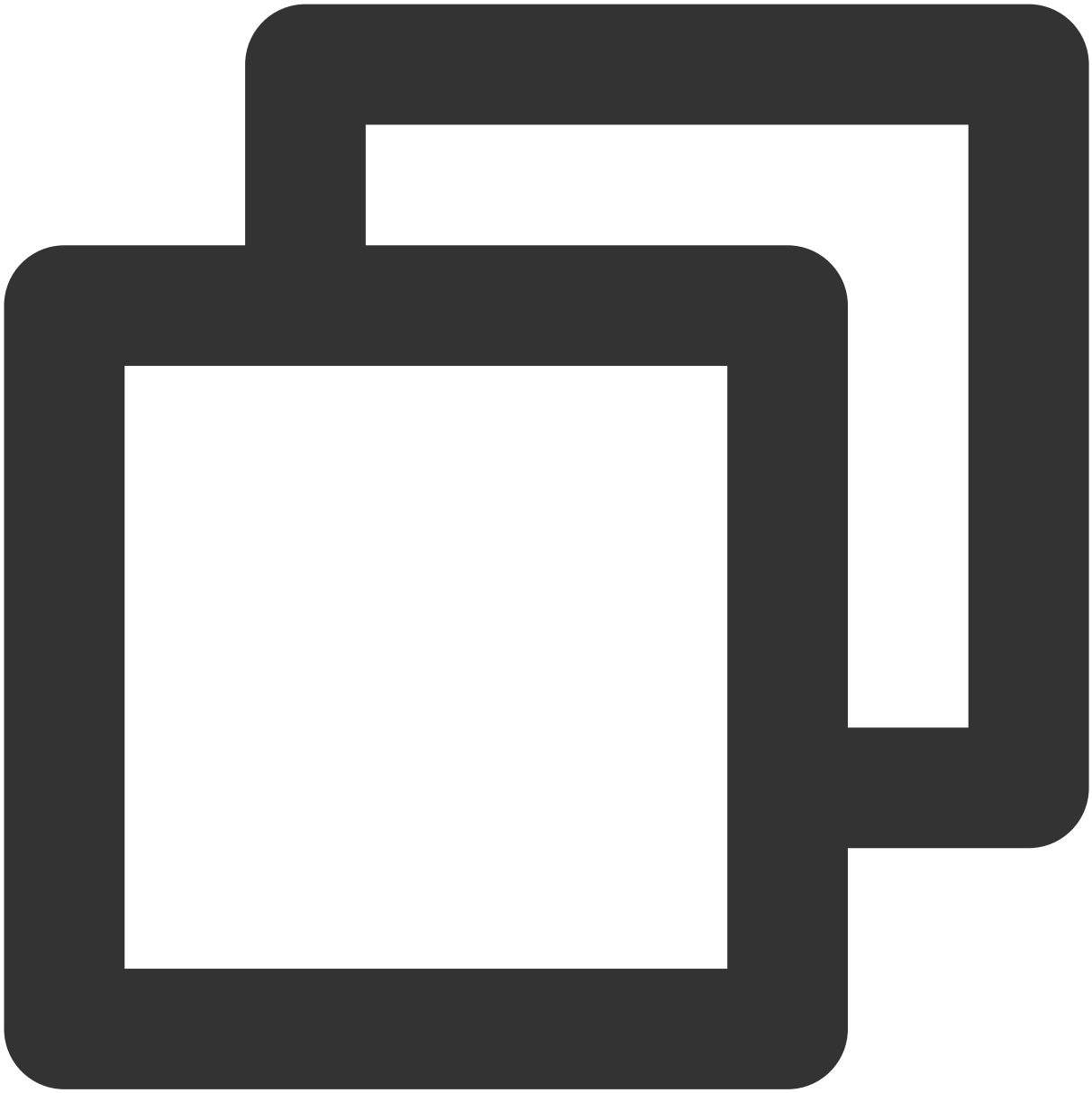
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```
DescribeQueueOpt := &cos.DescribeDocProcessQueuesOptions{
    QueueIds: "p111a8dd208104ce3b11c78398f658ca8,p4318f85d2aa14c43b1dba6f9b78be9b3,
    PageNumber: 1,
    PageSize:   2,
}
res, _, err := c.CI.DescribeDocProcessQueues(context.Background(), DescribeQueueOpt
```

Parameter description

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```
type DescribeDocProcessQueuesOptions struct {
    QueueIds   string `url:"queueIds,omitempty"`
    State      string `url:"state,omitempty"`
    PageNumber int    `url:"pageNumber,omitempty"`
    PageSize   int    `url:"pageSize,omitempty"`
}
```

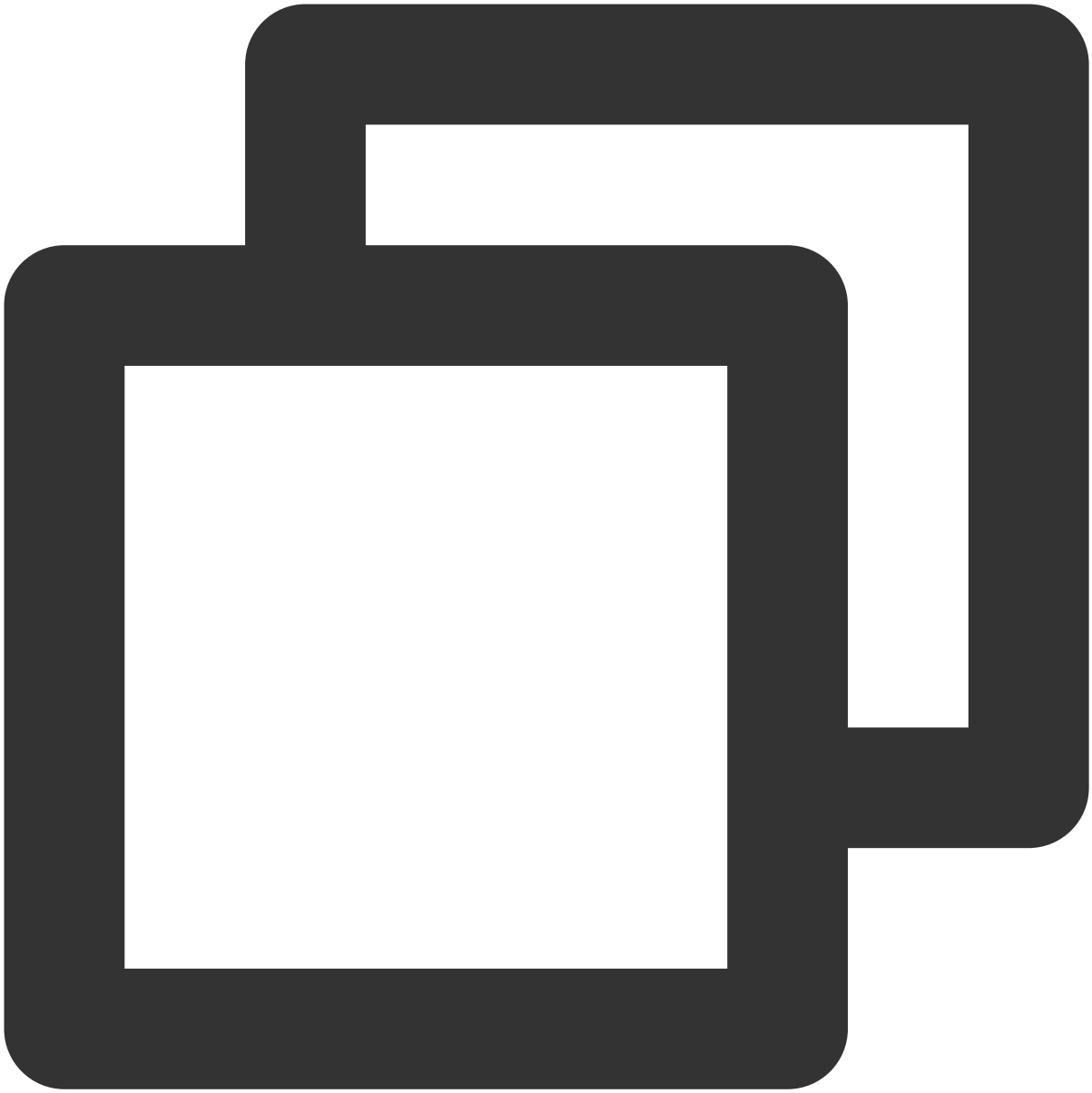
Parameter	Description	Type
QueueIds	Queue ID. If you enter multiple IDs, separate them by comma.	String

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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
PageNumber	Page number.	int
PageSize	Number of entries per page.	int

Response description

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```
type DescribeDocProcessQueuesResult struct {
    XMLName      xml.Name
    RequestId    string
    TotalCount   int
    PageNumber   int
    PageSize     int
    QueueList    []DocProcessQueue
    NonExistPIDs []string
}
type DocProcessQueue struct {
    QueueId       string
```

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```
    Name          string
    State         string
    MaxSize       int
    MaxConcurrent int
    UpdateTime    string
    CreateTime    string
    NotifyConfig  *DocProcessQueueNotifyConfig
}
type DocProcessQueueNotifyConfig struct {
    Url   string
    State string
    Type  string
    Event string
}
```

Parameter	Description	Type
RequestId	Unique ID of the request	String
TotalCount	Total number of queues	Int
PageNumber	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Number of entries per page, which is the same as `pageSize` in the request.	Int
QueueList	Queue array	Container
NonExistPIDs	List of IDs of non-existent queues	String array
QueueId	Queue ID	String
Name	Queue name	String
State	Current status: `Active` or `Paused`.	String
NotifyConfig	Callback configuration	Container
MaxSize	Maximum length of the queue	Int
MaxConcurrent	Maximum number of concurrent jobs in the current queue	Int
UpdateTime	Update time	String
CreateTime	Creation time	String
Url	Callback address	String

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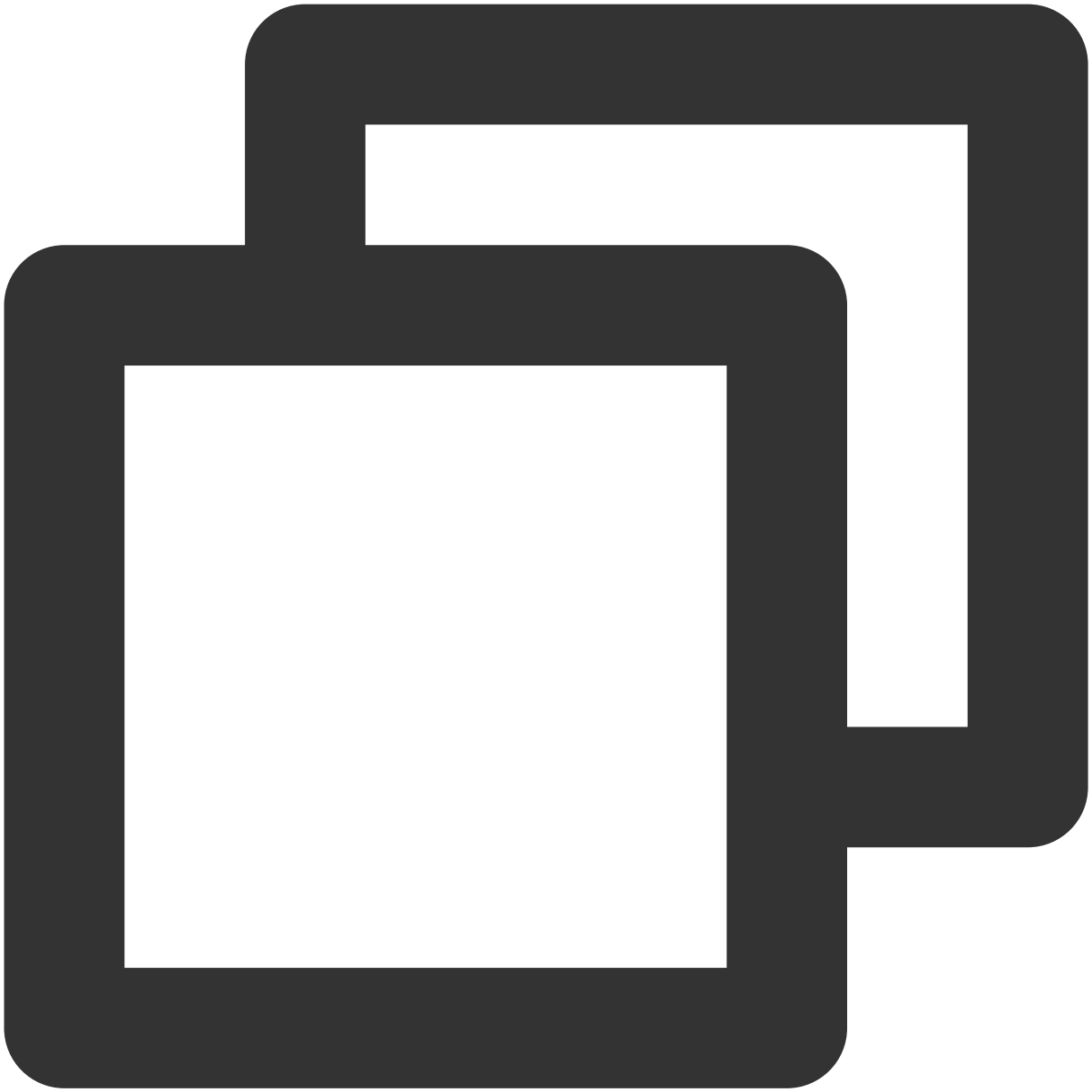
State	Switch status: `On` or `Off`.	String
Type	Callback type: `Url`.	String
Event	The event that triggers the callback	String

Updating File Preview Queue

Feature description

This API (`UpdateDocProcessQueue`) is used to update a file preview queue.

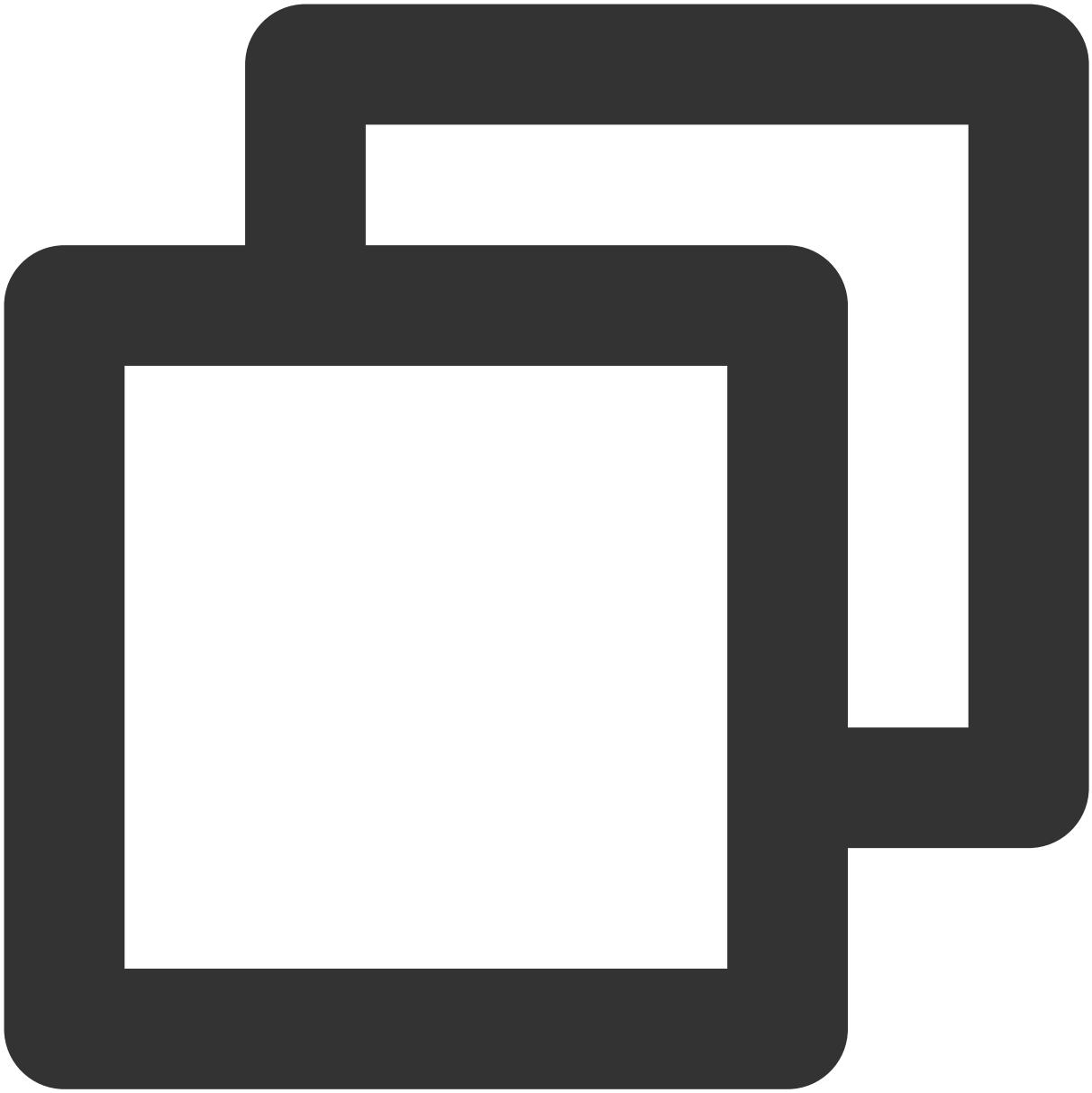
Method prototype



```
func (s *CIService) UpdateDocProcessQueue(ctx context.Context, opt *UpdateDocProces
```

Sample request

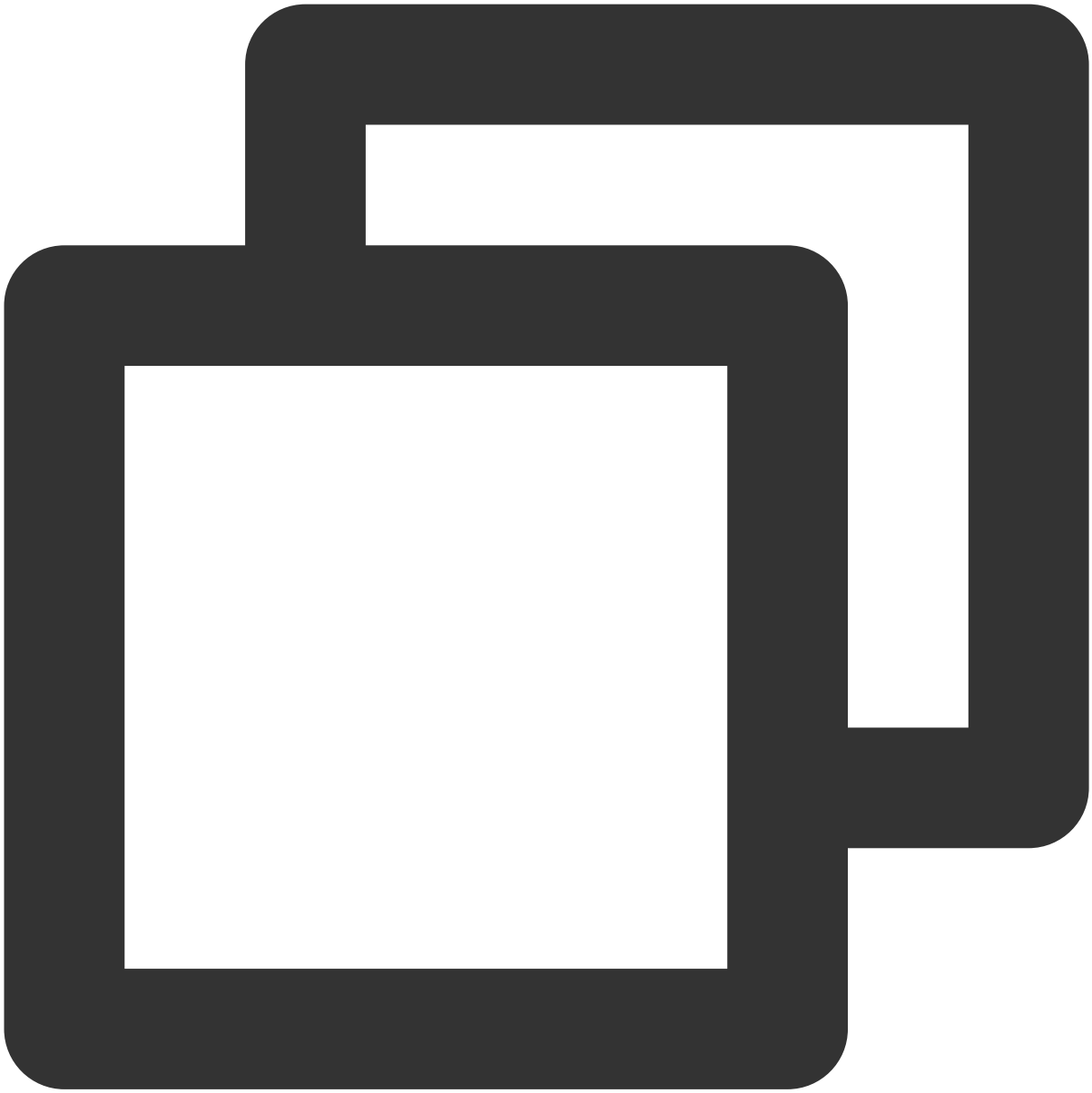
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```
updateQueueOpt := &cos.UpdateDocProcessQueueOptions{
    Name:    "queue-doc-process-1",
    QueueID: "p111a8dd208104ce3b11c78398f658ca8",
    State:   "Active",
    NotifyConfig: &cos.DocProcessQueueNotifyConfig{
        State: "Off",
    },
}
res, _, err := c.CI.UpdateDocProcessQueue(context.Background(), updateQueueOpt)
```

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Parameter description



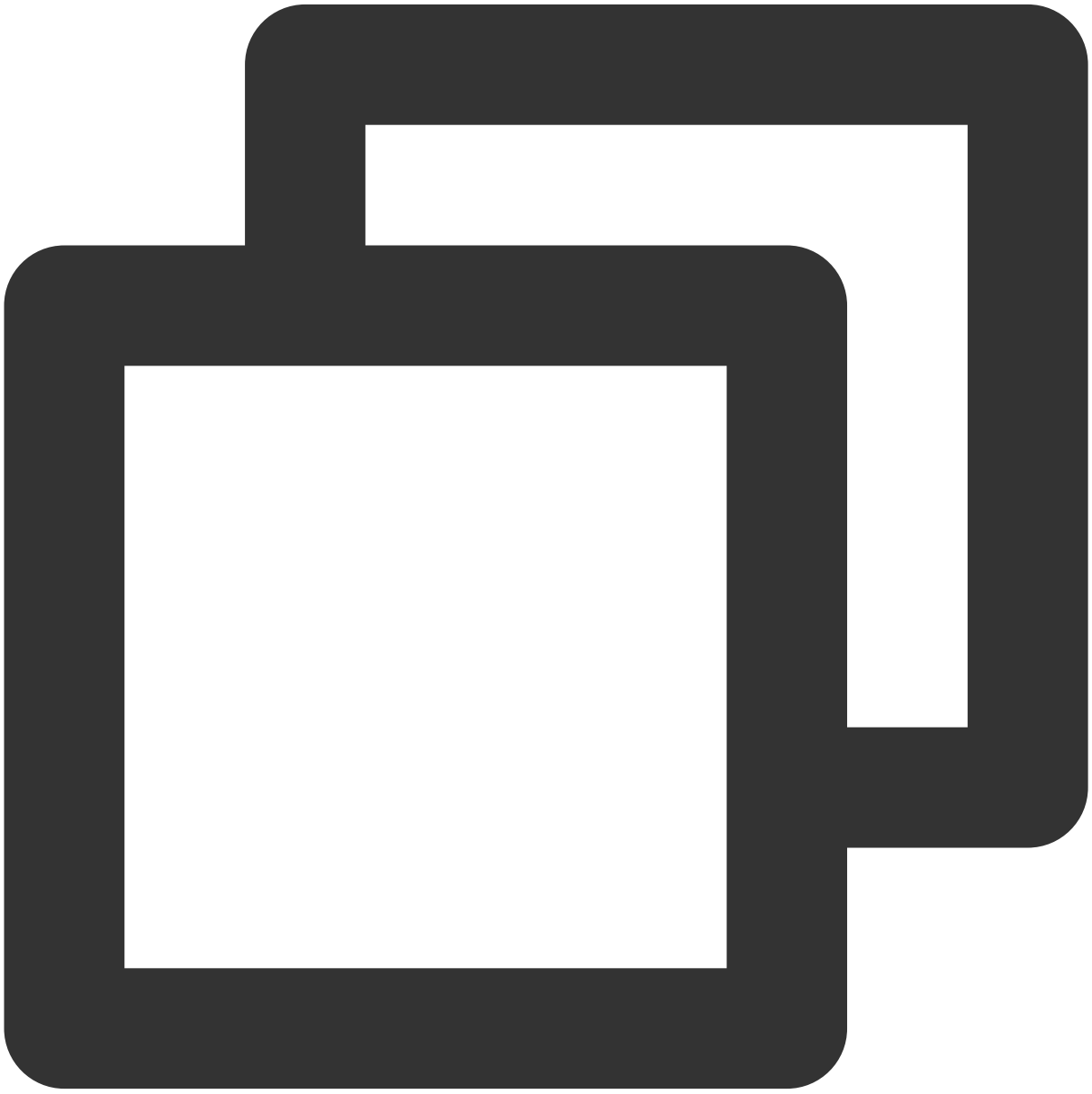
```
type UpdateDocProcessQueueOptions struct {
    XMLName      xml.Name
    Name         string
    QueueID      string
    State        string
    NotifyConfig *DocProcessQueueNotifyConfig
}
```

Parameter	Description	Type

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Name	Queue name	String
QueueID	Queue ID	String
State	Queue status	String
NotifyConfig	Notification channel. For more information, see `DocProcessQueue.NotifyConfig`.	Container

Response description



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```
type UpdateDocProcessQueueResult struct {
    XMLName   xml.Name
    RequestId string
    Queue     *DocProcessQueue
}
```

Parameter	Description	Type
RequestId	Unique ID of the request	Struct
Queue	Queue information. For more information, see `DescribeDocProcessQueuesResult.QueueList`.	Struct

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Async Processing Job APIs

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for file preview jobs.

API	Operation	Description
CreateDocProcessJobs	Submitting file preview job	Submits file preview job.
DescribeDocProcessJob	Querying file preview job	Queries specified file preview job.
DescribeDocProcessJobs	Pulling file preview jobs	Pulls eligible file preview jobs.

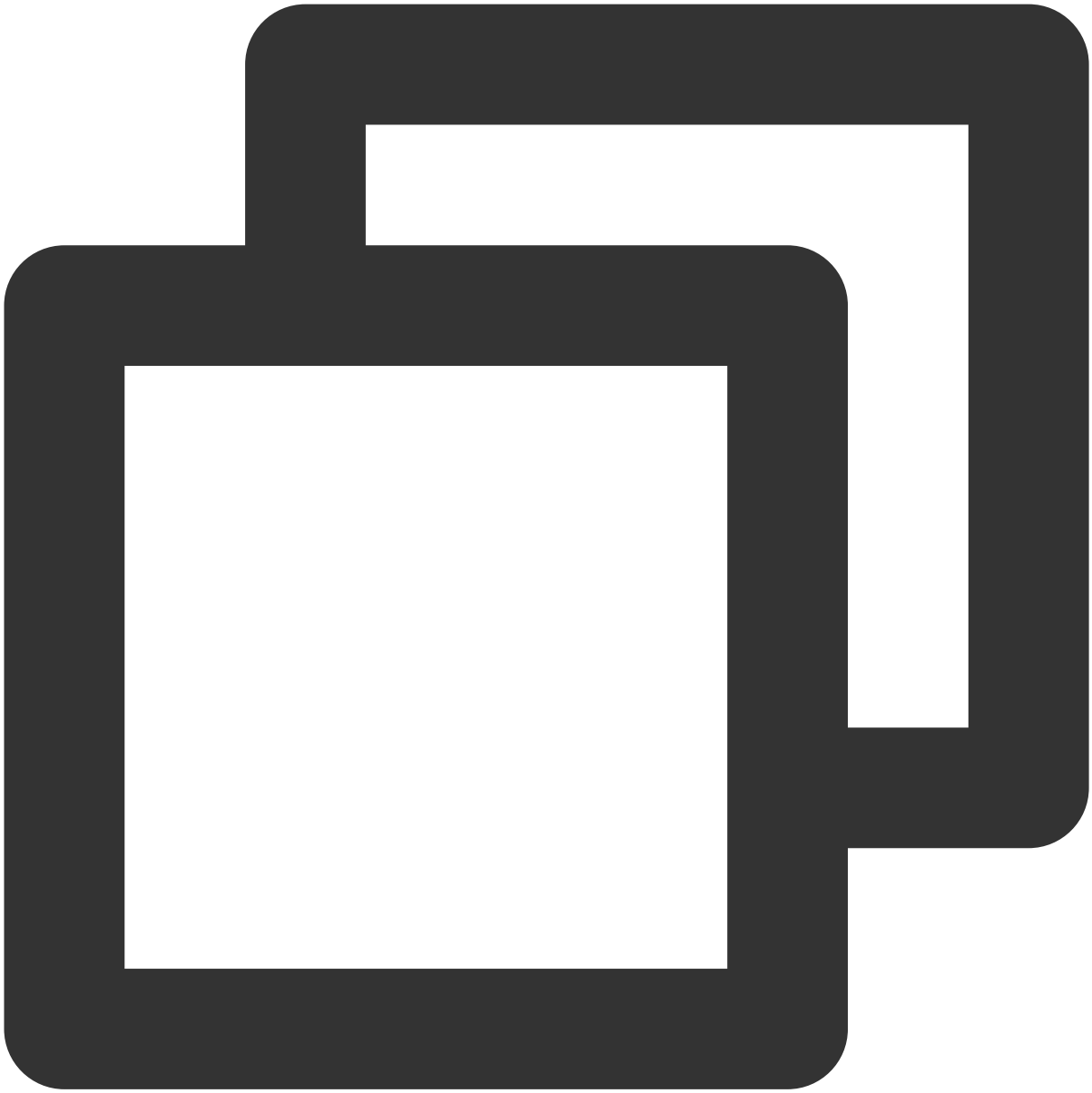
Submitting File Preview Job

Feature description

This API (`CreateDocProcessJobs`) is used to submit a file preview job.

Method prototype

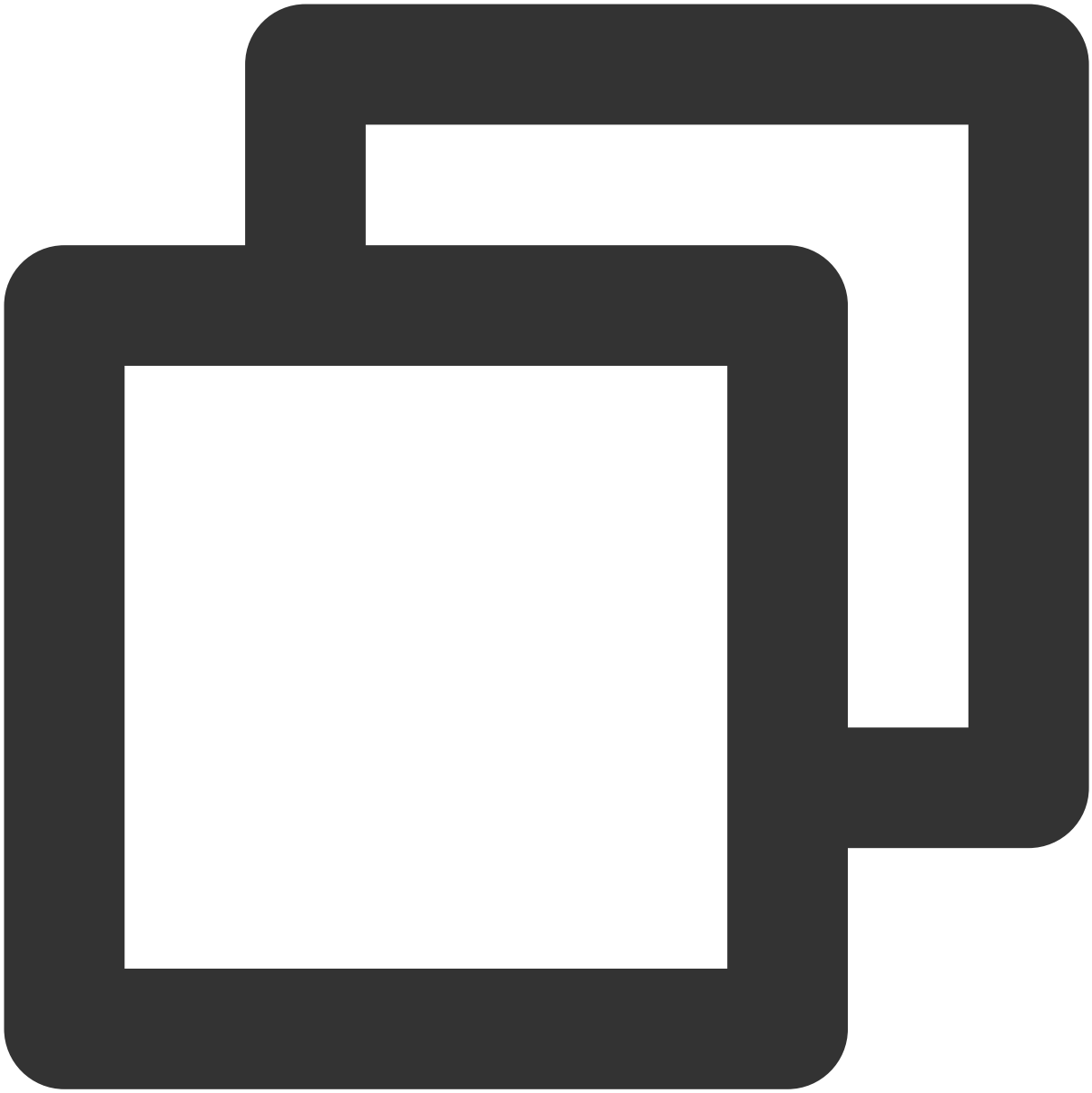
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```
func (s *CIService) CreateDocProcessJobs(ctx context.Context, opt *CreateDocProcess
```

Sample request

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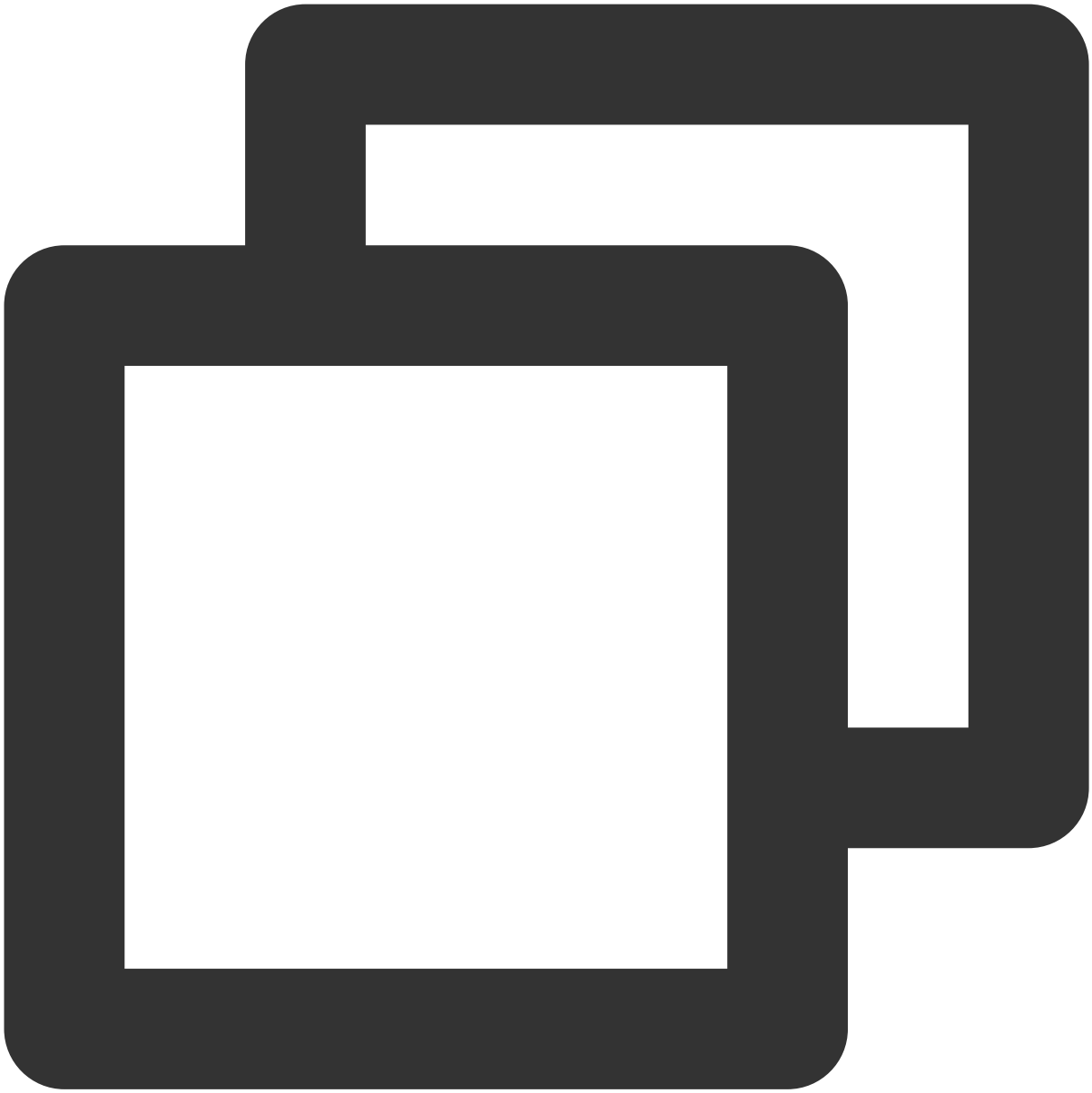


```
createJobOpt := &cos.CreateDocProcessJobsOptions{
    Tag: "DocProcess",
    Input: &cos.DocProcessJobInput{
        Object: "form.pdf",
    },
    Operation: &cos.DocProcessJobOperation{
        Output: &cos.DocProcessJobOutput{
            Region: "ap-guangzhou",
            Object: "test-doc${Number}",
            Bucket: "examplebucket-1250000000",
        },
```

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```
        DocProcess: &cos.DocProcessJobDocProcess{
            TgtType:     "png",
            StartPage:   1,
            EndPage:     -1,
            ImageParams: "watermark/1/image/aHR0cDovL3Rlc3QwMDUtMTI1MTcwNDcwOC5jb3M
        },
    },
    QueueId: "p111a8dd208104ce3b11c78398f658ca8",
}
res, _, err := c.CI.CreateDocProcessJobs(context.Background(), createJobOpt)
```

Parameter description



```
type CreateDocProcessJobsOptions struct {
    XMLName   xml.Name
    Tag       string
    Input     *DocProcessJobInput
    Operation *DocProcessJobOperation
    QueueId   string
}
type DocProcessJobInput struct {
    Object string
}
type DocProcessJobOperation struct {
```

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```
    Output           *DocProcessJobOutput
    DocProcess       *DocProcessJobDocProcess
    DocProcessResult *DocProcessJobDocProcessResult
}
type DocProcessJobOutput struct {
    Region string
    Bucket string
    Object string
}
type DocProcessJobDocProcess struct {
    SrcType        string
    TgtType        string
    SheetId        int
    StartPage      int
    EndPage        int
    ImageParams    string
    DocPassword    string
    Comments       int
    PaperDirection int
    Quality        int
    Zoom           int
}
```

Parameter	Description	Type
Tag	Job type, which currently can only be `DocProcess`.	String
Input	The object to be processed	Container
Operation	Operation rule	Container
QueueId	ID of the queue which the job is in	String
Object	File URL in COS. `Bucket` is specified by `Host`.	String
Output	Result output address	Container
DocProcess	Job type parameter, which takes effect only if `Tag` is `DocProcess`.	Container
Region	Bucket region	String
Bucket	Result storage bucket	String
Object	Output file path. **For non-spreadsheet files, the output file name must include the `${Number}` or `${Page}` parameter.** If there are multiple output files, `${Number}` indicates that serial numbers	String

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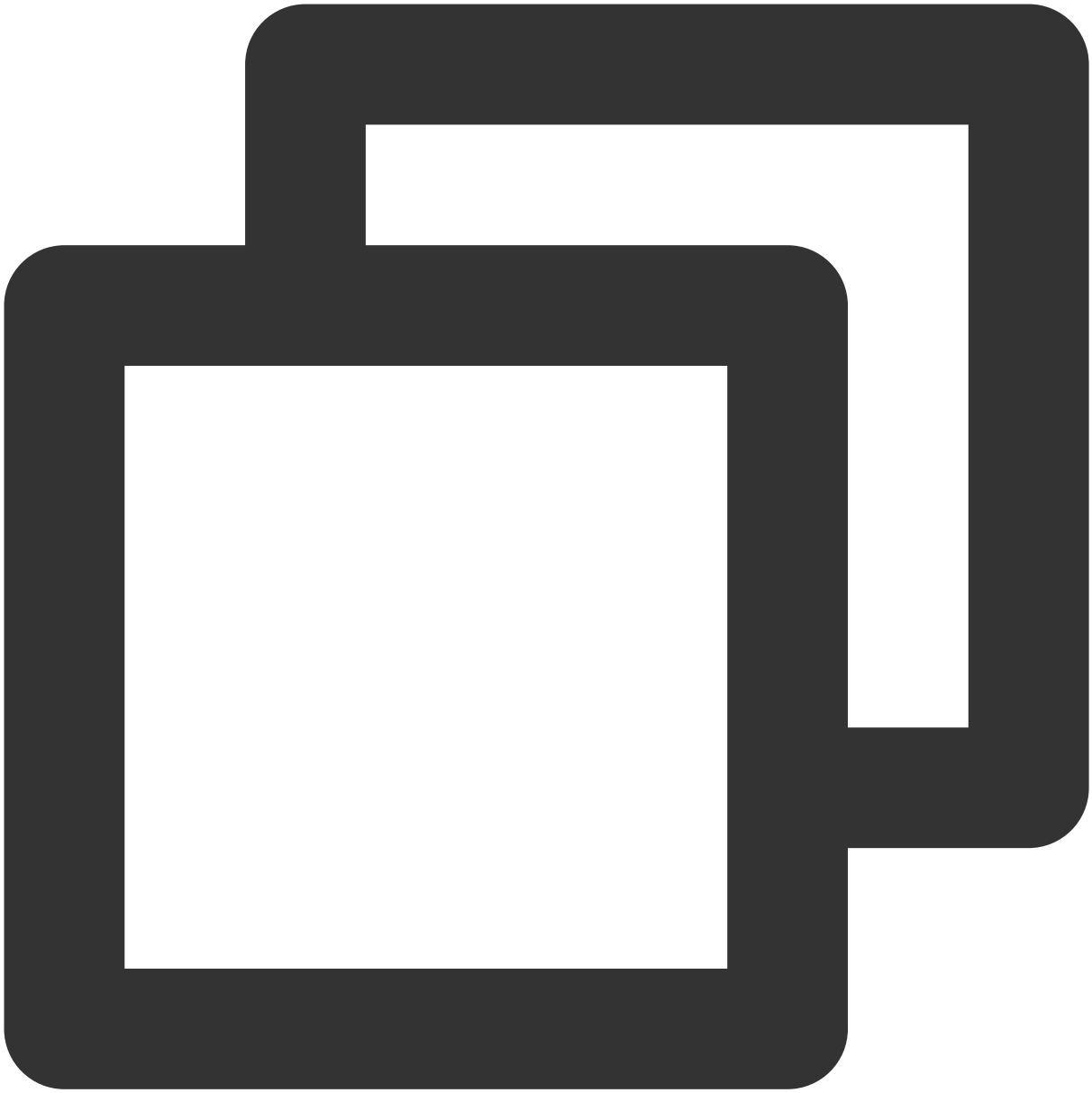
	start from 1, and `${Page}` indicates that serial numbers are the same as preview page numbers. `${Number}` indicates that serial numbers start from 1 for multiple output files; for example, if the input parameter is `abc_${Number}.jpg` to preview pages 5–6 in the file, then output file names will be `abc_1.jpg` and `abc_2.jpg`. `${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 based on the number of Excel sheets to be converted, and then the corresponding number of image files will be generated in these folders.	
SrcType	Source data type. Currently, the file conversion feature determines the source data type based on the file extension of the COS object. If the object has no extension, you can set this value.	String
TgtType	Type of the output target image file. Valid values: `png`, `jpg`, `pdf`. If the input file format cannot be recognized, the `jpg` format will be used by default.	String
SheetId	Sheet parameter, indicating to convert the xth sheet. Default value: `1`. If this value is set to `0`, all sheets will be converted.	Int
StartPage	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
EndPage	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
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
DocPassword	Password to open the Office file. If you need to convert a password-protected file, set this field.	String

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Comments	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
PaperDirection	Paper orientation of the spreadsheet. 0: vertical; other values: horizontal. Default value: 0.	Int
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
Zoom	Zooming parameter of the preview image. Value range: [10-200]. Default value: 100. For example, if the value is 200, the image will be zoomed in (enlarged) by 200%.	Int

Response description

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```
type CreateDocProcessJobsResult struct {
    JobsDetail DocProcessJobDetail
}
type DocProcessJobDetail struct {
    Code         string
    Message      string
    JobId        string
    Tag          string
    State        string
    CreationTime string
    QueueId      string
```

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```
    Input         *DocProcessJobInput
    Operation     *DocProcessJobOperation
}
```

Parameter	Description	Type
JobsDetail	Job details	Container
Code	Error code, which will be returned only if `State` is `Failed`.	String
Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Job ID	String
Tag	Job type: DocProcess	String
State	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Job creation time	String
QueueId	ID of the queue which the job is in	String
Input	Path of the input file for this job. For more information, see `CreateDocProcessJobsOptions.Input`.	Container
Operation	Operation rule. For more information, see `CreateDocProcessJobsOptions.Operation`.	Container

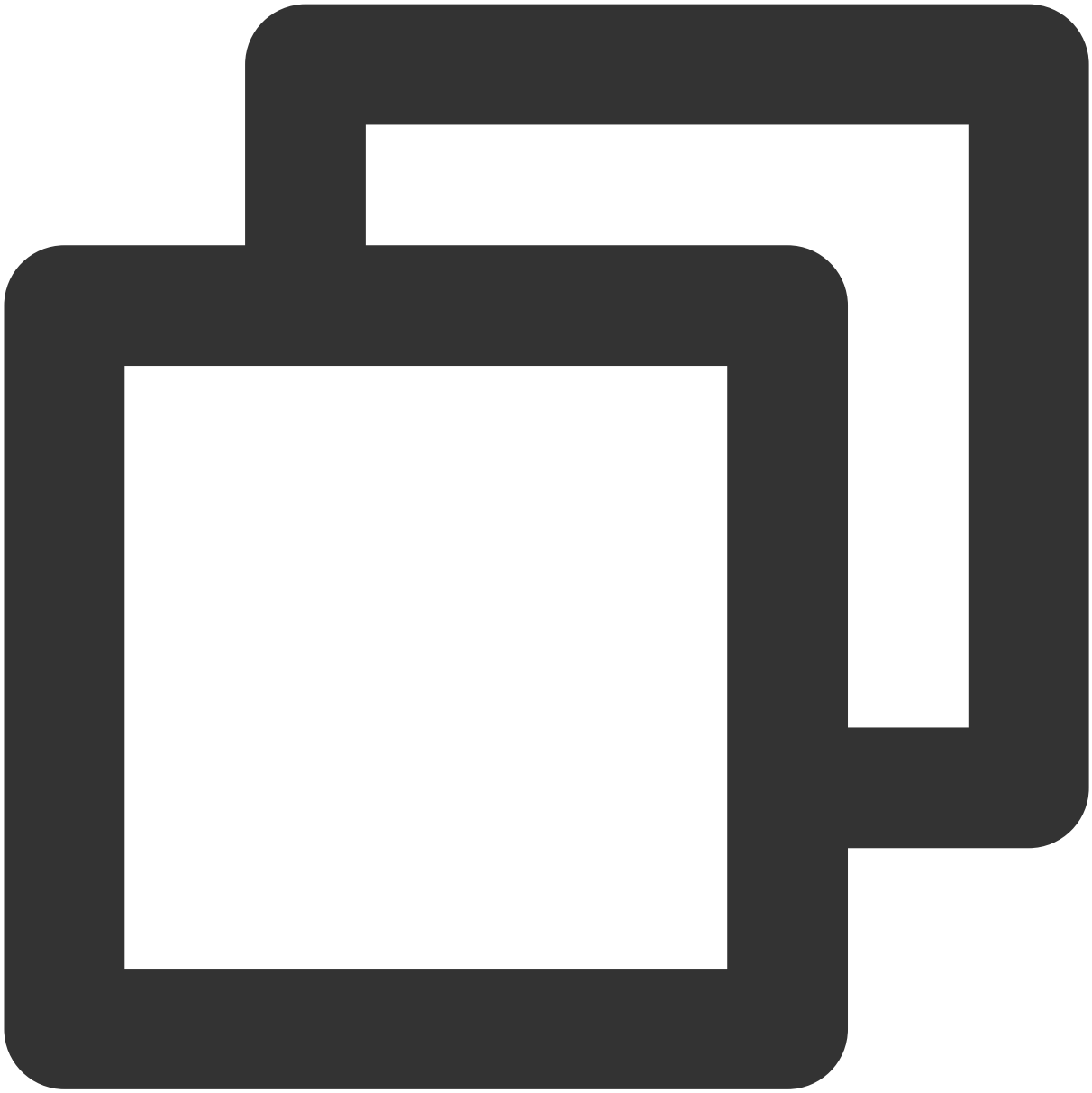
Querying Specified File Preview Job

Feature description

This API (`DescribeDocProcessJob`) is used to query a specified file preview job.

Method prototype

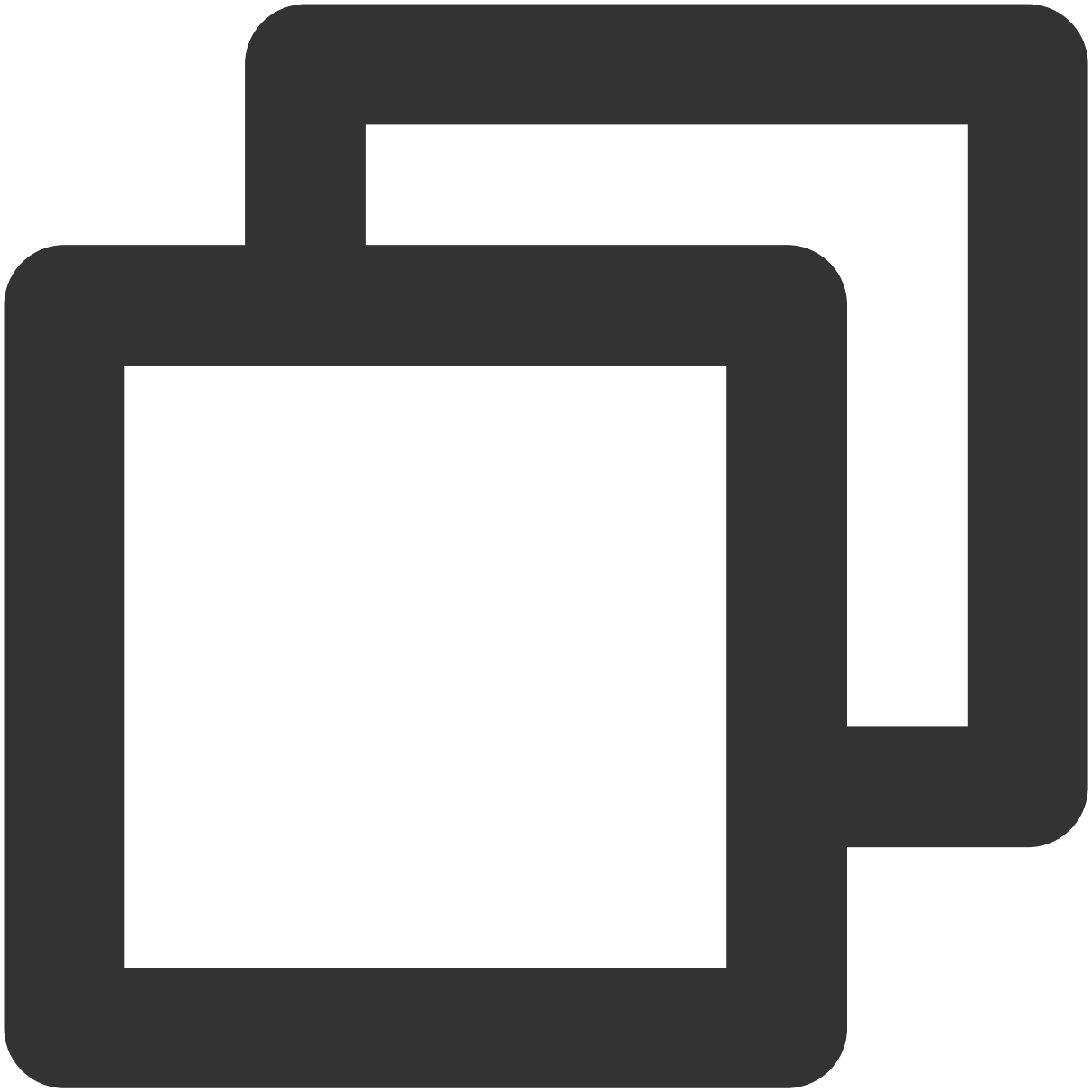
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```
func (s *CIService) DescribeDocProcessJob(ctx context.Context, jobid string) (*Desc
```

Sample request

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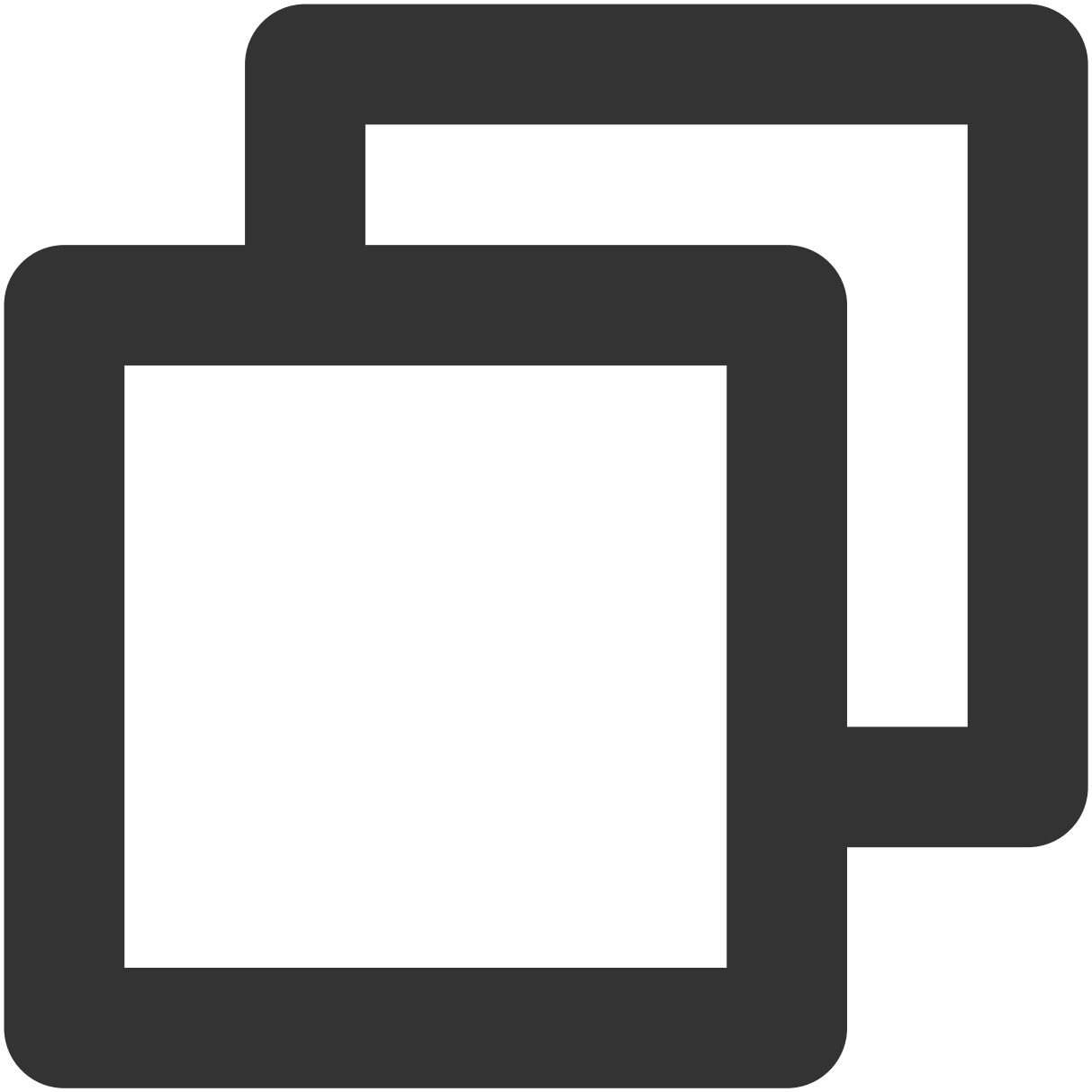
```
jobid := "<jobid>"
res, _, err := c.CI.DescribeDocProcessJob(context.Background(), jobid)
```

Parameter description

Parameter	Description	Type
jobid	File preview job ID	String

Response description

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```
type DescribeDocProcessJobResult struct {
    JobsDetail     *DocProcessJobDetail
    NonExistJobIds string
}
```

Parameter	Description	Type
JobsDetail	Job details. Same as `Response.JobsDetail` in `CreateDocProcessJobs` .	Container

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NonExistJobIds	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String

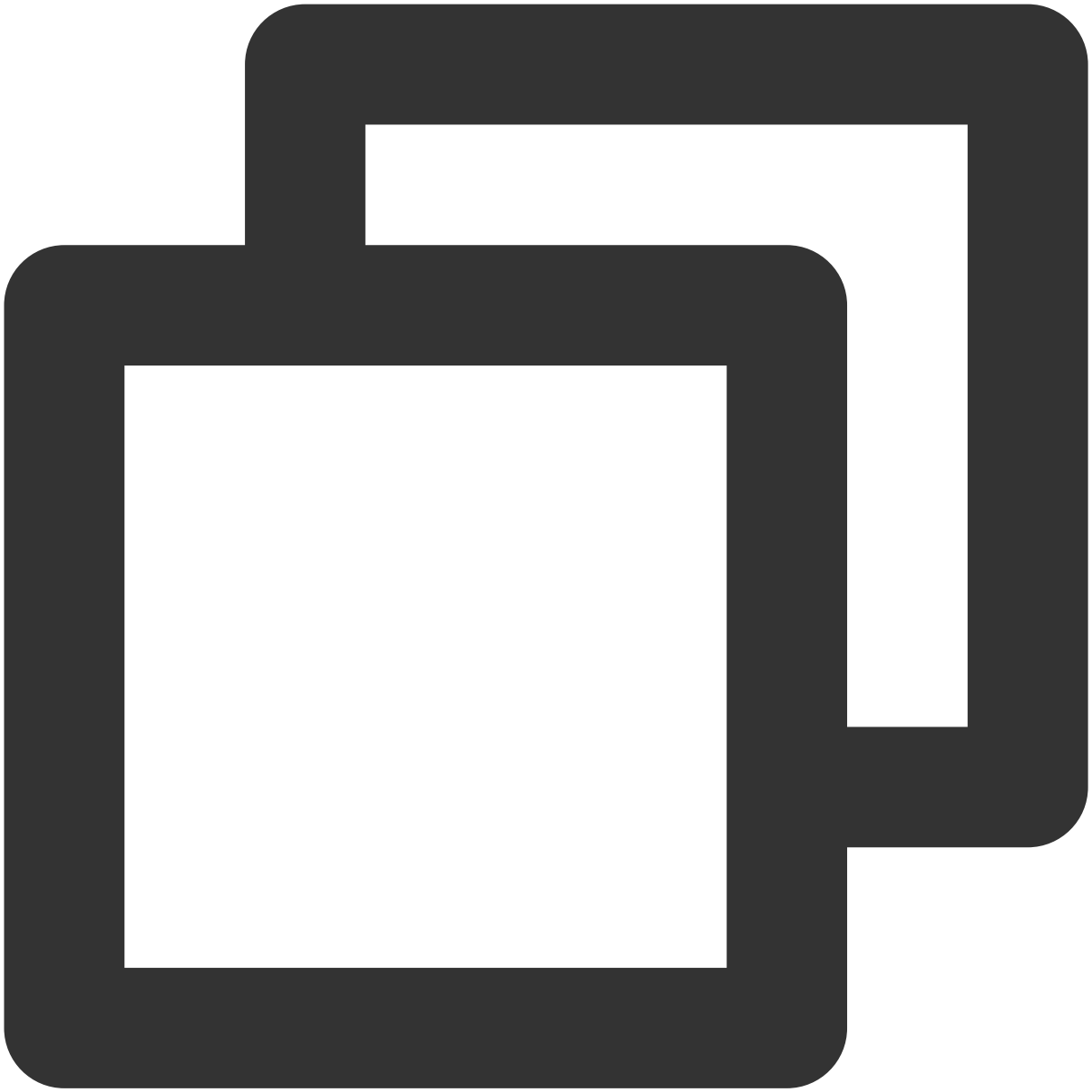
Pulling Eligible File Preview Jobs

Feature description

The API (`DescribeDocProcessJobs`) is used to pull file preview jobs that meet specified conditions.

Method prototype

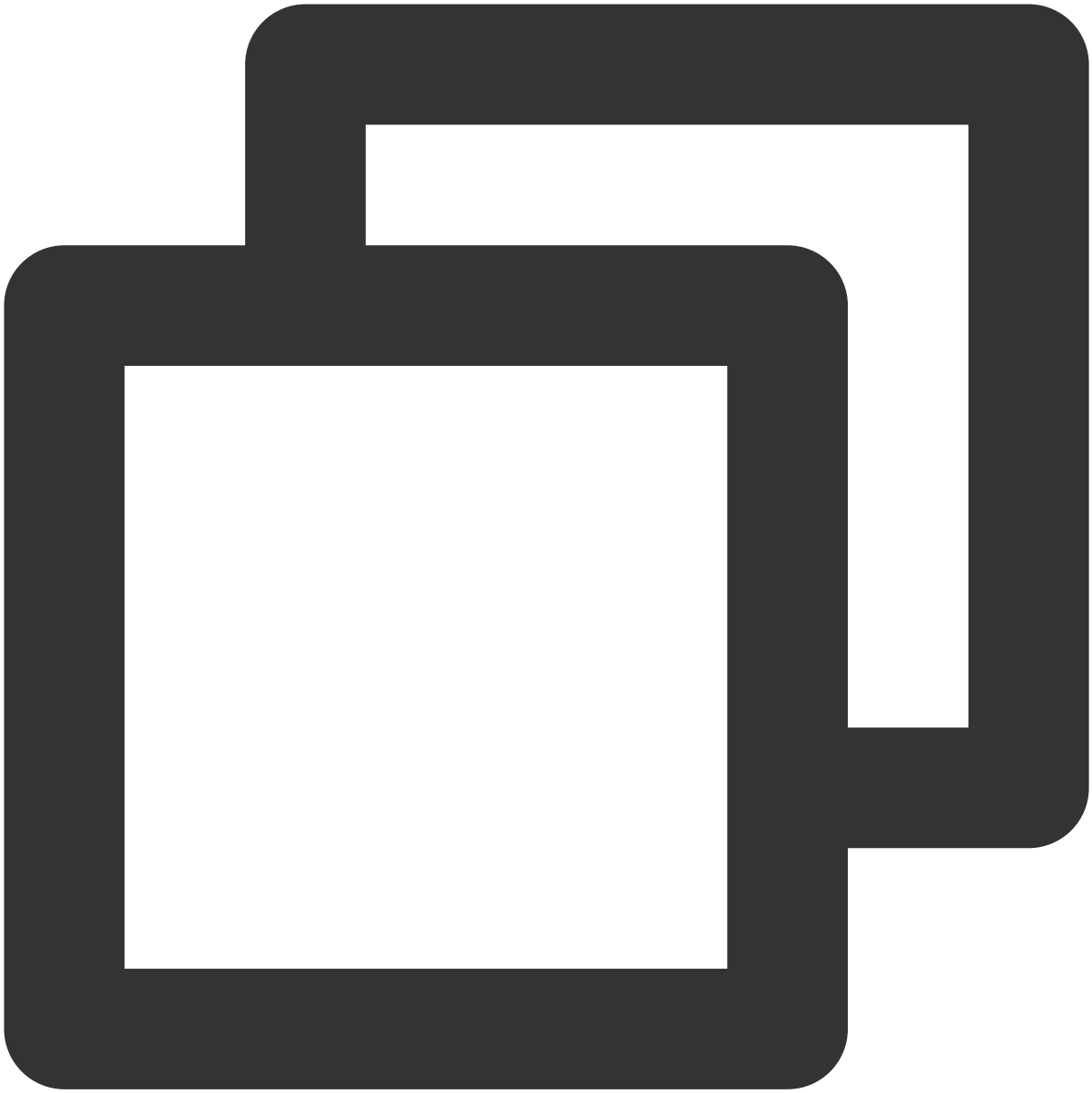
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```
func (s *CIService) DescribeDocProcessJobs(ctx context.Context, opt *DescribeDocPro
```

Sample request

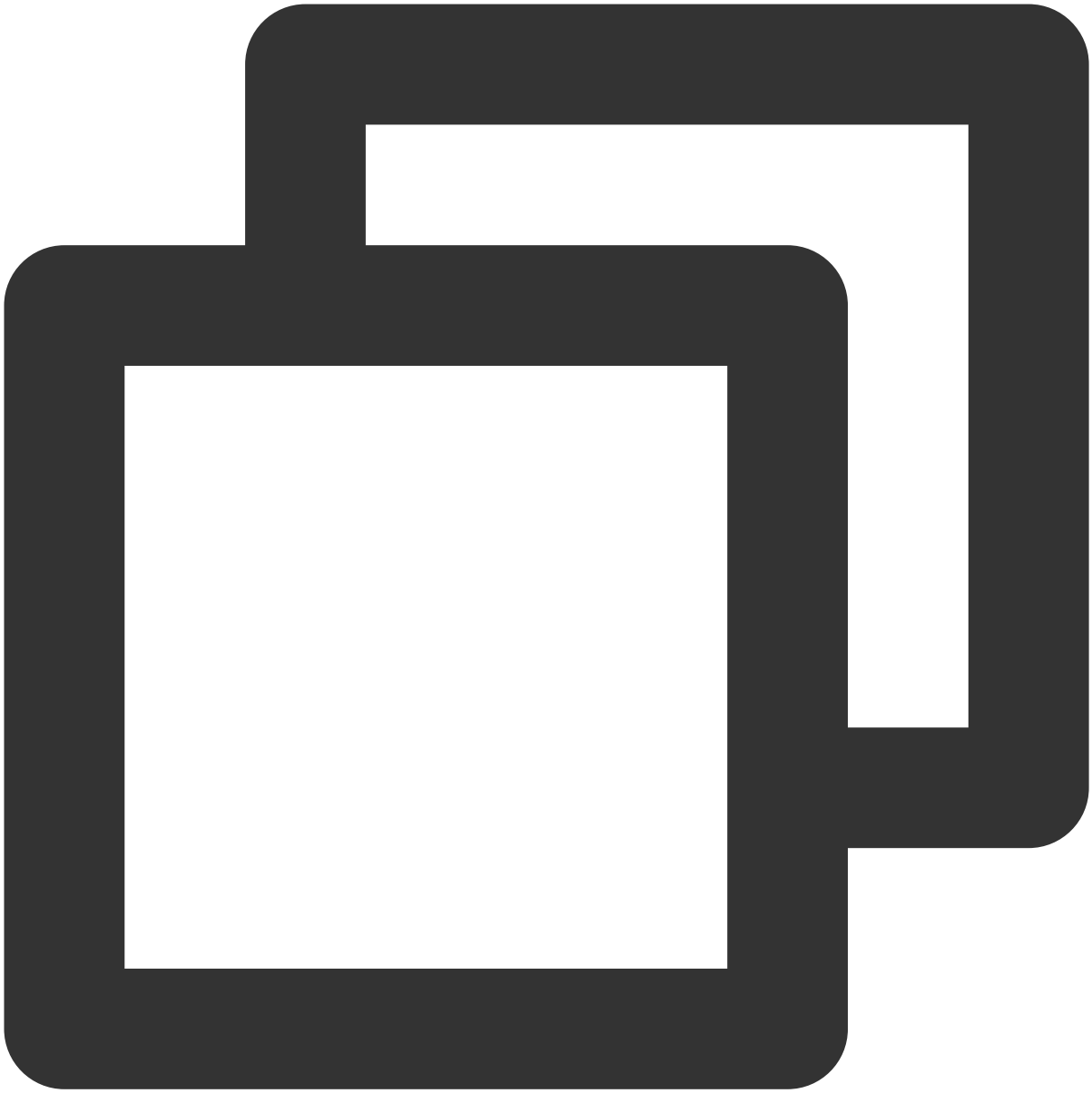
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```
DescribeJobsOpt := &cos.DescribeDocProcessJobsOptions{
    QueueId: "p111a8dd208104ce3b11c78398f658ca8",
    Tag:     "DocProcess",
}
res, _, err := c.CI.DescribeDocProcessJobs(context.Background(), DescribeJobsOpt)
```

Parameter description

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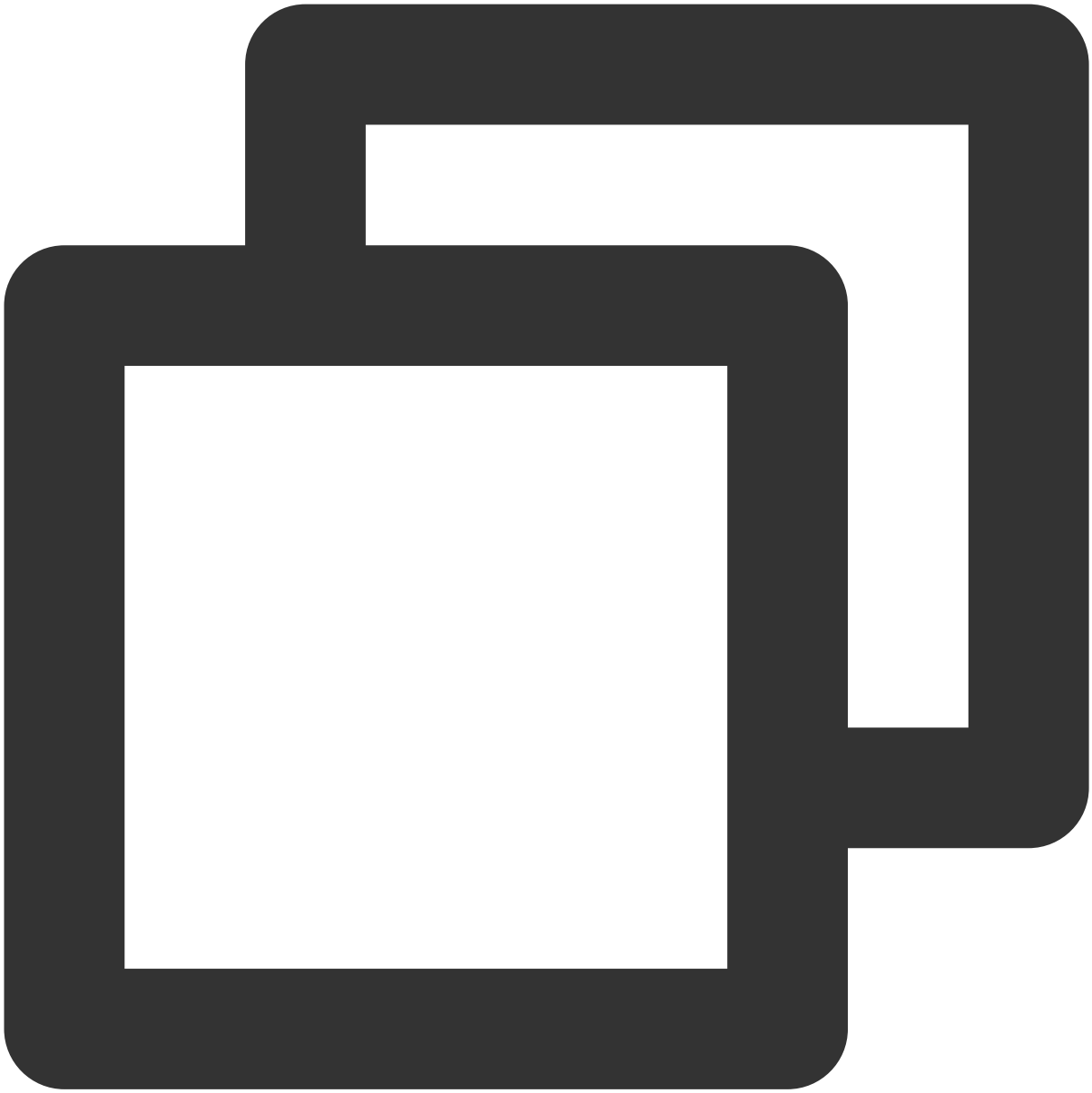
```
type DescribeDocProcessJobsOptions struct {
    QueueId           string
    Tag               string
    OrderByTime       string
    NextToken         string
    Size              int
    States            string
    StartCreationTime string
    EndCreationTime   string
}
```

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Parameter	Description	Type
QueueId	ID of the queue from which jobs are pulled	String
Tag	Job type: DocProcess	String
OrderByTime	`Desc` (default) or `Asc`	String
NextToken	Context token for pagination	String
Size	Maximum number of jobs that can be pulled. The default value is 10. The maximum value is 100.	Int
States	Status of the jobs to pull. If you enter multiple job statuses, separate them by comma. Valid values: `All` (default value), `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
StartCreationTime	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String
EndCreationTime	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String

Response description

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```
type DescribeDocProcessJobsResult struct {
    JobsDetail []DocProcessJobDetail
    NextToken  string
}
```

Parameter	Description	Type
JobsDetail	Job details. Same as `Response.JobsDetail` in `CreateDocProcessJobs`.	Container

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NextToken	Context token for pagination	String

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File-to-HTML Conversion

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for sync requests for file preview.

API	Description
File-to-HTML conversion	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 use cases, such as online education, enterprise OA, online knowledge base, and online file preview.

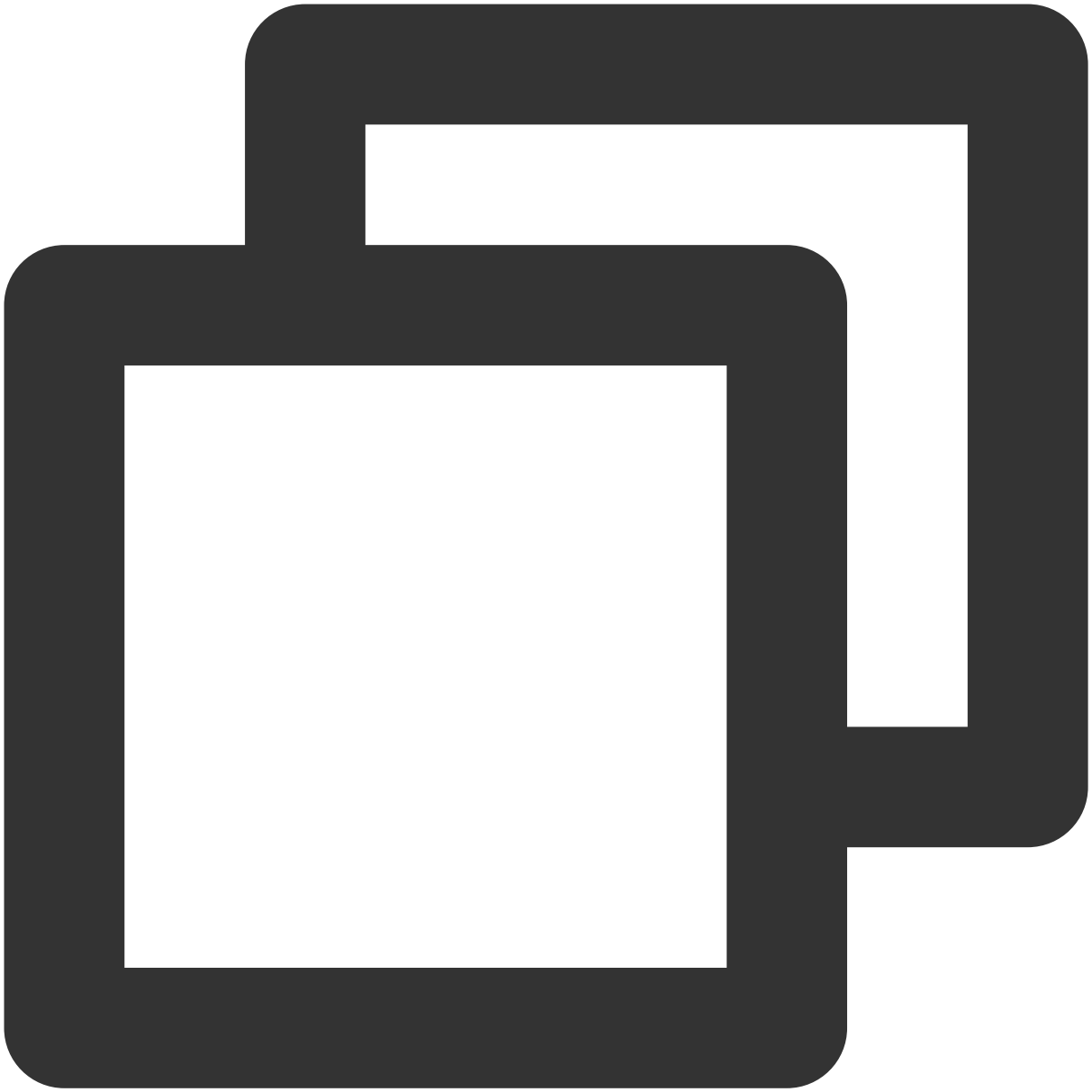
File-to-HTML Conversion

Feature description

This API is used to convert files in various formats to HTML for preview.

Method prototype

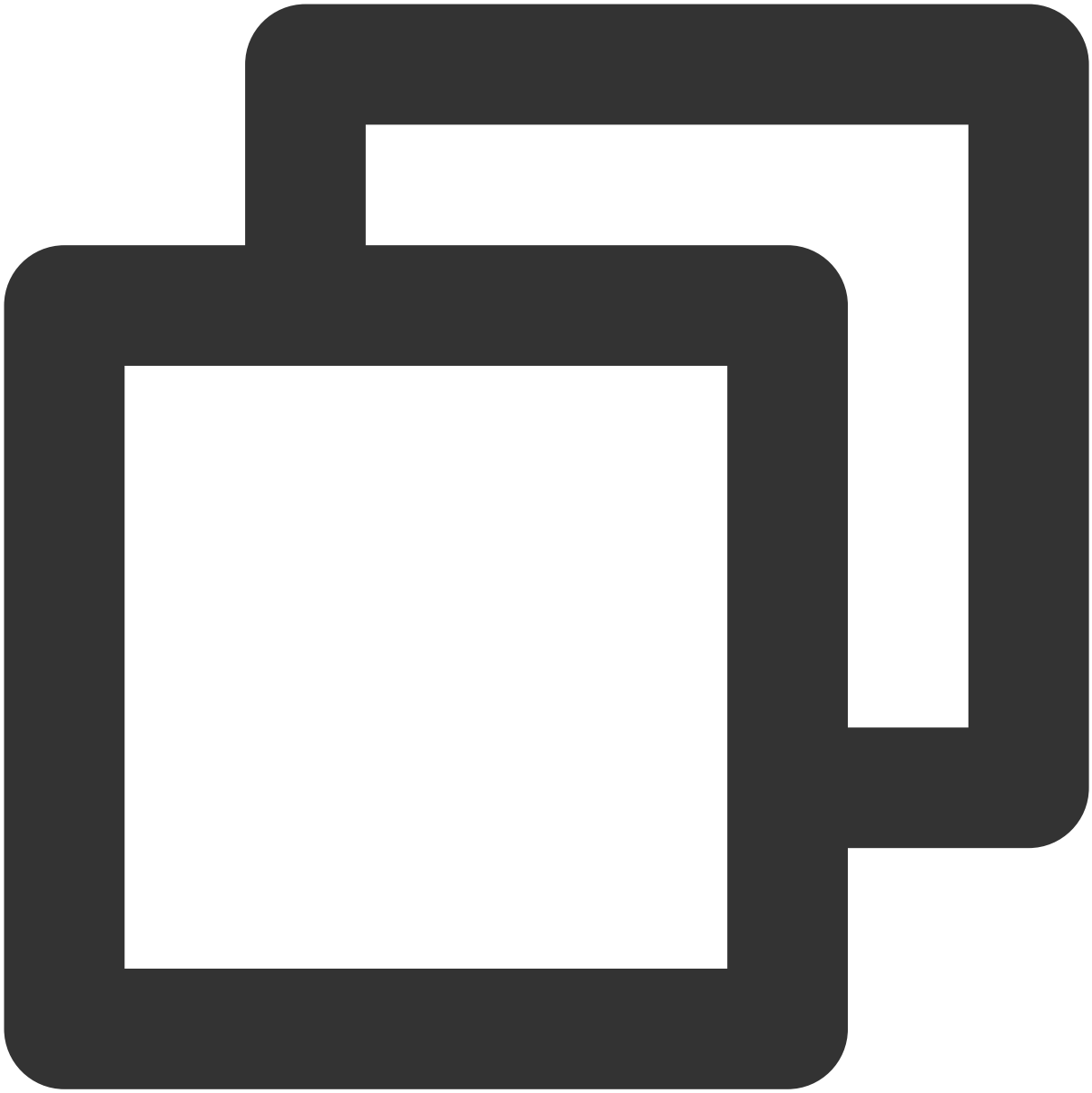
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```
func (s *CIService) DocPreviewHTML(ctx context.Context, name string, opt *DocPrevie
```

Sample request

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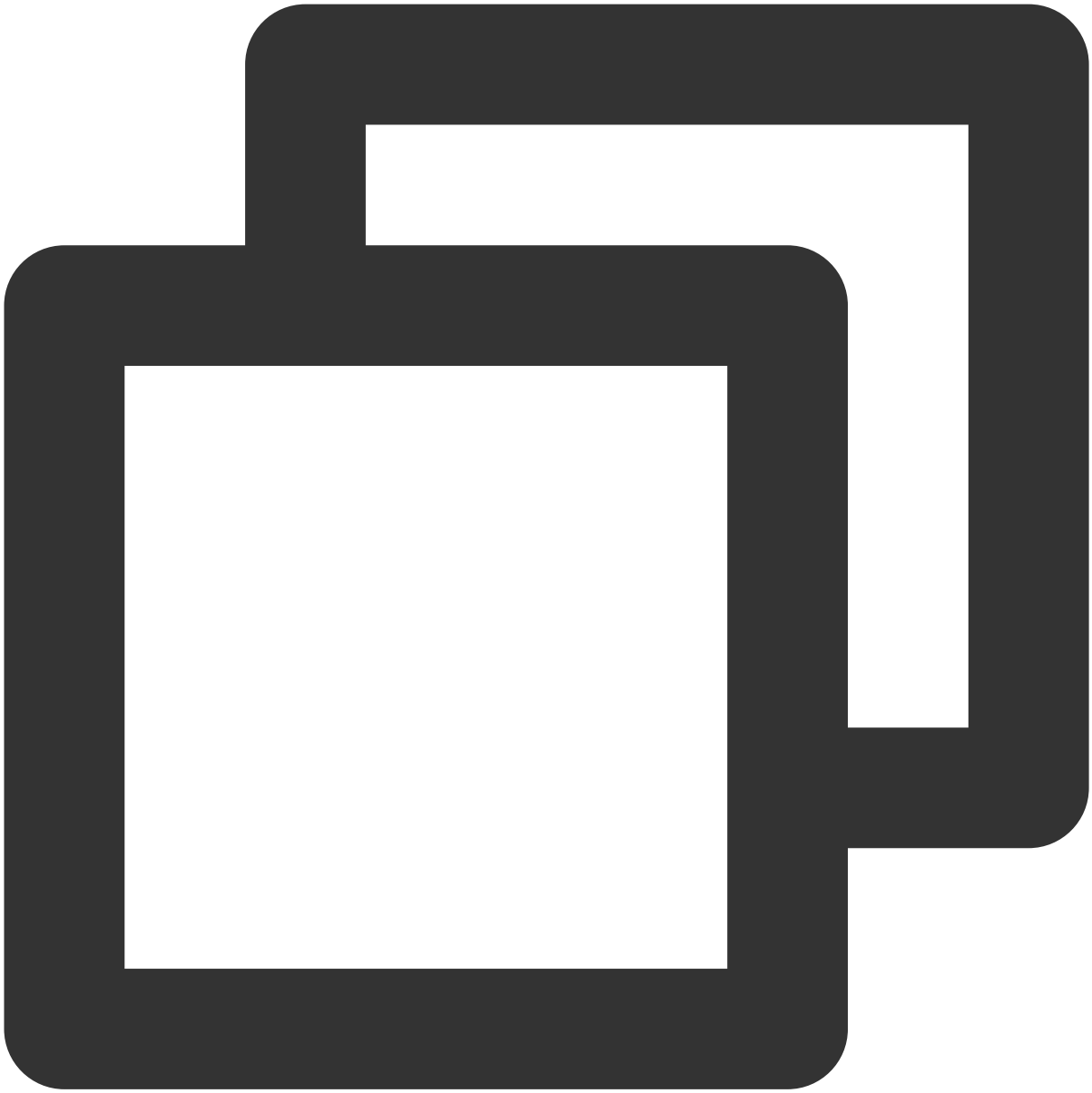
```
opt := &cos.DocPreviewHTMLOptions{
    DstType:  "html",
    SrcType:  "ppt",
    Copyable: "1",
    HtmlParams: &cos.HtmlParams{
        CommonOptions: &cos.HtmlCommonParams{
            IsShowTopArea: false,
        },
        PptOptions: &cos.HtmlPptParams{
            IsShowBottomStatusBar: true,
        },
```

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```
    },
    Htmlwaterword:  "5pWw5o2u5LiH6LGhLeaWh+aho+mihOiniA==",
    Htmlfillstyle:  "cmdiYSgxMDIsMjA0LDI1NSwwLjMp", // rgba(102,204,255,0.3)
    Htmlfront:      "Ym9sZCAyNXB4IFNlcmlm",         // bold 25px Serif
    Htmlrotate:     "315",
    Htmlhorizontal: "50",
    Htmlvertical:   "100",
}
resp, err := c.CI.DocPreviewHTML(context.Background(), "form.pdf", opt)
```

Parameter description

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```
type DocPreviewHTMLOptions struct {
    DstType        string      `url:"dstType,omitempty"`
    SrcType        string      `url:"srcType,omitempty"`
    Sign           string      `url:"sign,omitempty"`
    Copyable       string      `url:"copyable,omitempty"`
    HtmlParams     *HtmlParams `url:"htmlParams,omitempty"`
    Htmlwaterword  string      `url:"htmlwaterword,omitempty"`
    Htmlfillstyle  string      `url:"htmlfillstyle,omitempty"`
    Htmlfront      string      `url:"htmlfront,omitempty"`
    Htmlrotate     string      `url:"htmlrotate,omitempty"`
    Htmlhorizontal string      `url:"htmlhorizontal,omitempty"`
```

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```
    Htmlvertical   string      `url:"htmlvertical,omitempty"`
}

type HtmlParams struct {
    CommonOptions *HtmlCommonParams `json:"commonOptions,omitempty"`
    WordOptions   *HtmlWordParams   `json:"wordOptions,omitempty"`
    PdfOptions    *HtmlPdfParams    `json:"pdfOptions,omitempty"`
    PptOptions    *HtmlPptParams    `json:"pptOptions,omitempty"`
}

type HtmlCommonParams struct {
    IsShowTopArea           bool `json:"isShowTopArea"`
    IsShowHeader            bool `json:"isShowHeader"`
    IsBrowserViewFullscreen bool `json:"isBrowserViewFullscreen"`
    IsIframeViewFullscreen  bool `json:"isIframeViewFullscreen"`
}

type HtmlWordParams struct {
    IsShowDocMap          bool `json:"isShowDocMap"`
    IsBestScale           bool `json:"isBestScale"`
    IsShowBottomStatusBar bool `json:"isShowBottomStatusBar"`
}

type HtmlPdfParams struct {
    IsShowComment         bool `json:"isShowComment"`
    IsInSafeMode          bool `json:"isInSafeMode"`
    IsShowBottomStatusBar bool `json:"isShowBottomStatusBar"`
}

type HtmlPptParams struct {
    IsShowBottomStatusBar bool `json:"isShowBottomStatusBar"`
}
```

Parameter	Description	Type	Required
DstType	Output target file type, which is fixed at `html` for HTML preview.	String	Yes
SrcType	Source file type as listed in Getting Started.	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),	String	No

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	`0` (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

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Content Moderation
Image Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for image moderation.

API	Description
Moderating single image	Leverages CI's content moderation API to scan existing data stored in COS for porn, illegal, and advertising images.
Batch moderating images	Leverages CI's content moderation API to scan existing data stored in COS for porn, illegal, and advertising images.
Querying image moderation job result	Queries the details of a specified image moderation job.

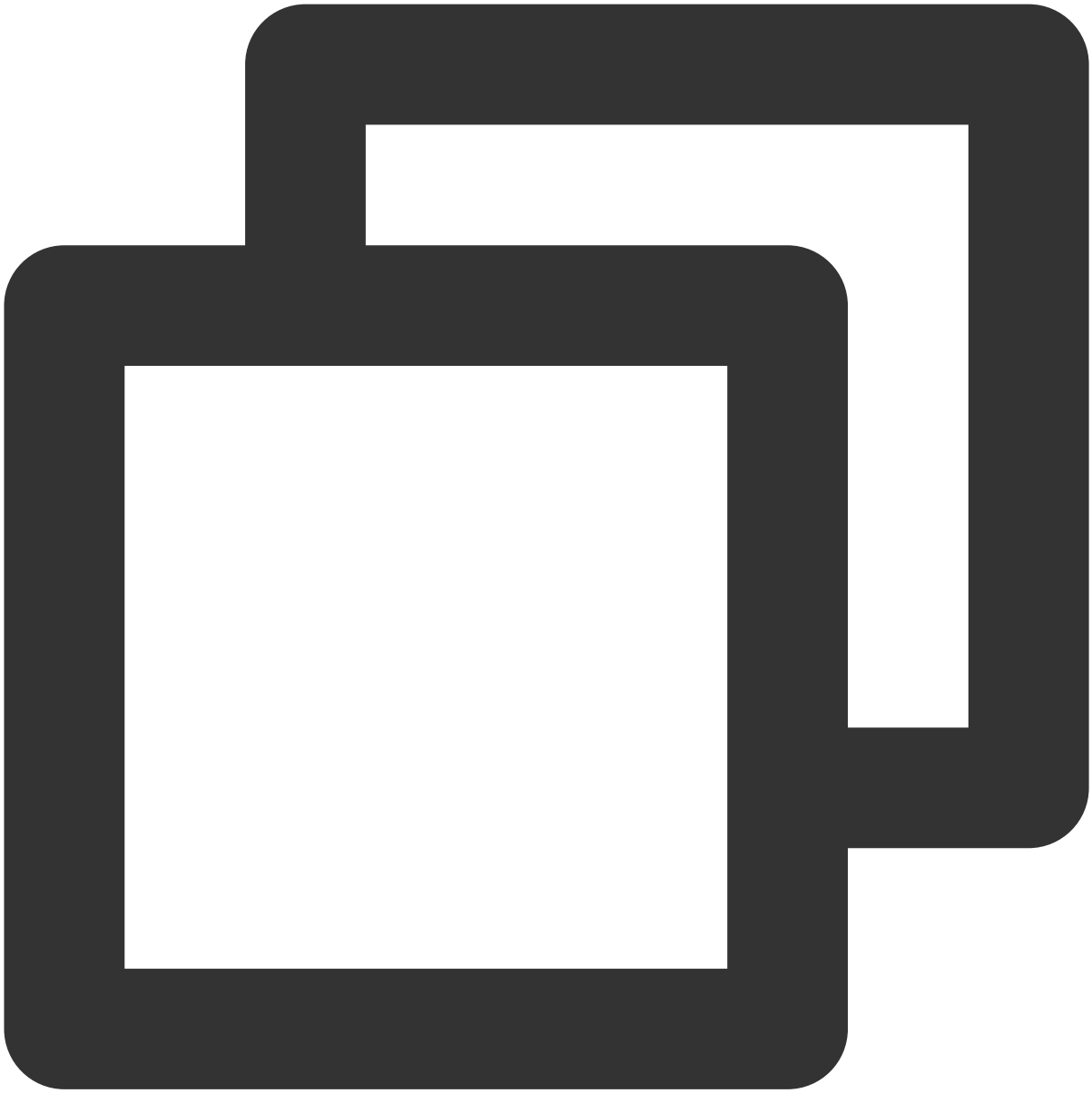
Single image moderation

Feature description

The existing data scan feature of image moderation leverages CI's persistent processing API to scan existing data stored in COS for porn, illegal, and advertising images. Image moderation requests are `GET` requests.

Method prototype

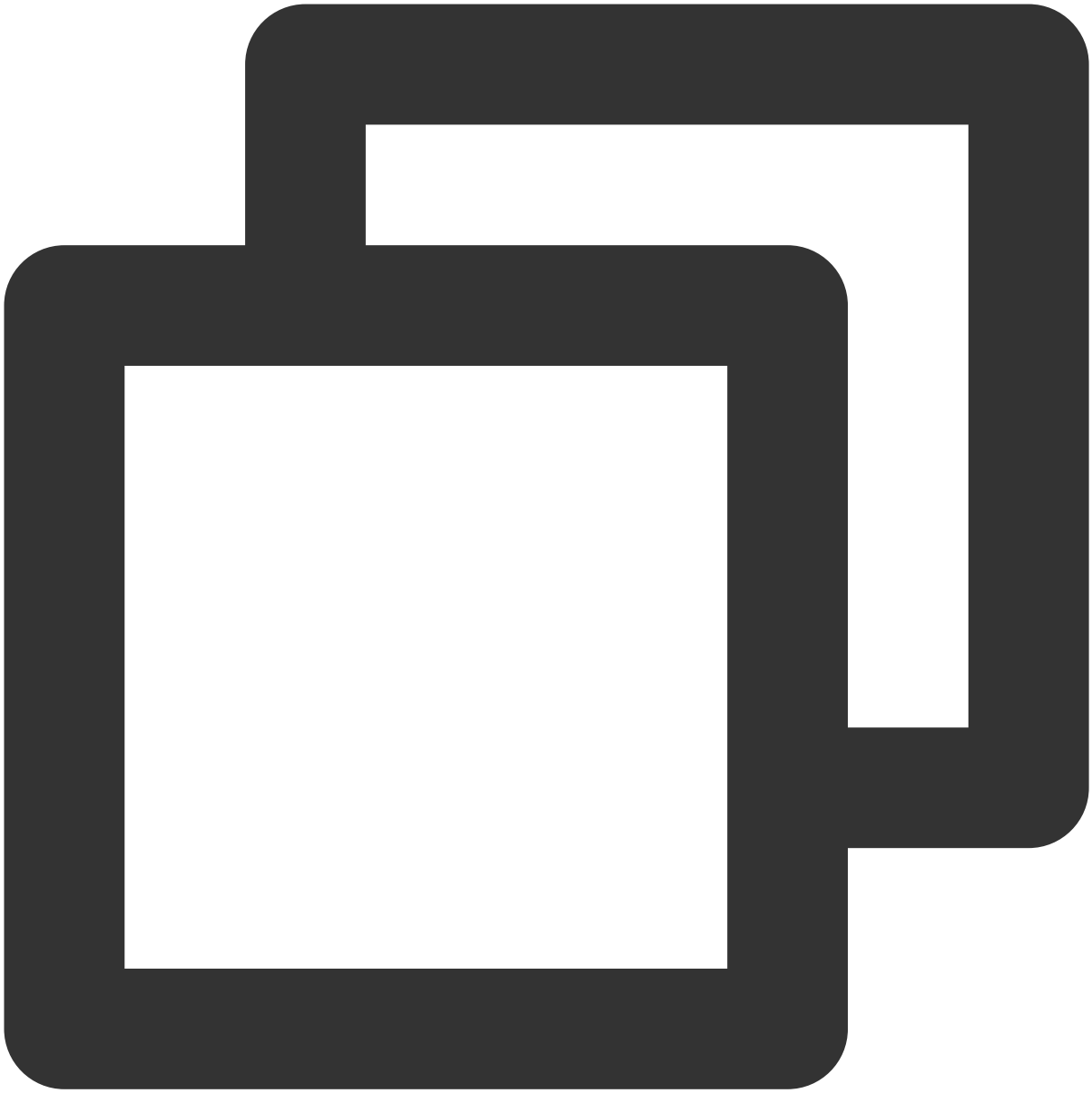
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```
// Basic operations
func (s *CIService) ImageRecognition(ctx context.Context, name string, DetectType s
// You can specify more parameters.
func (s *CIService) ImageAuditing(ctx context.Context, name string, opt *ImageRecog
```

Sample request

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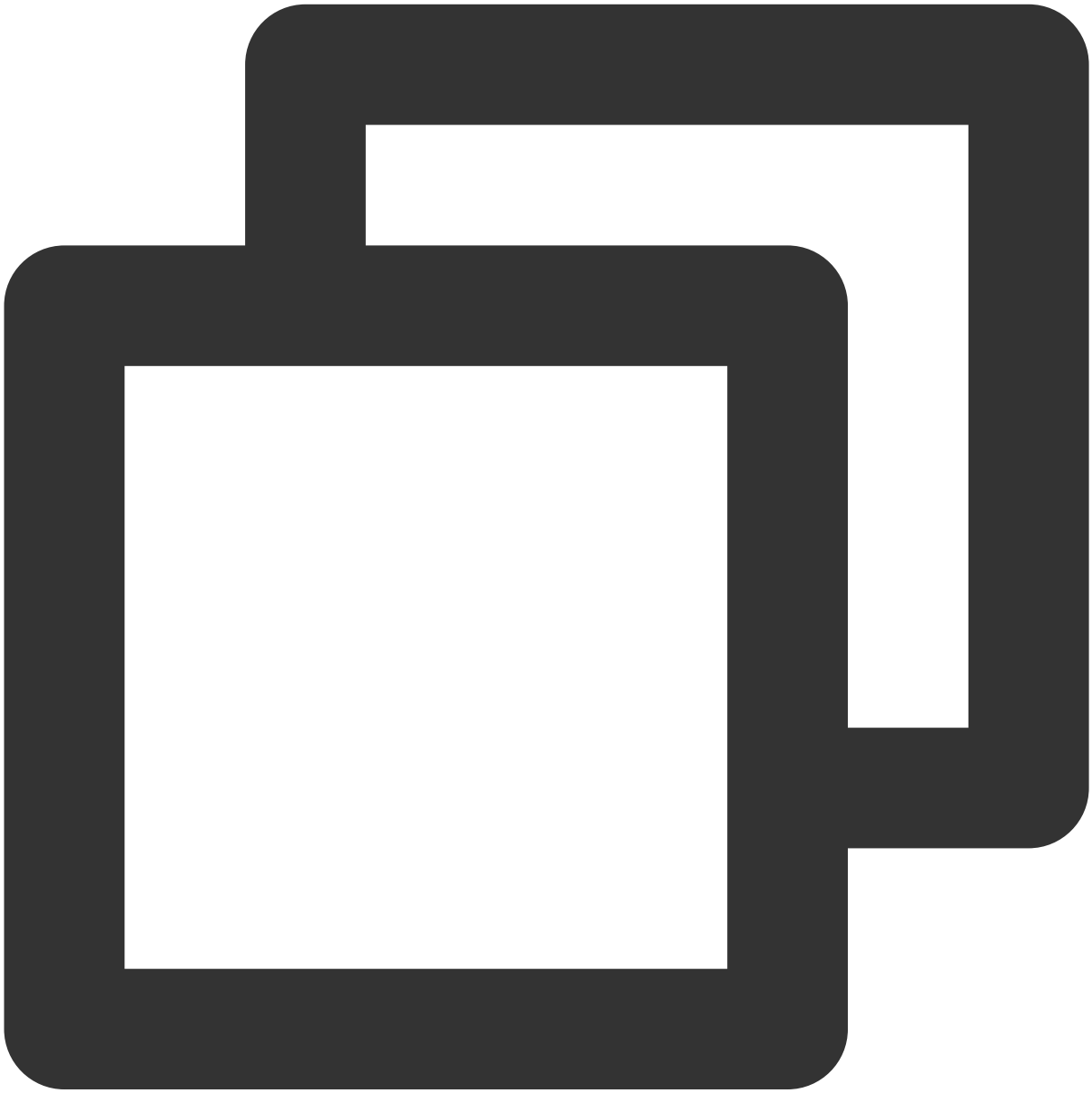
```
DetectType := "porn,ads"
name := "test.jpg"
res, _, err := c.CI.ImageRecognition(context.Background(), name, DetectType)


opt := &cos.ImageRecognitionOptions{
    CIProcess: "sensitive-content-recognition",
    DetectType: "porn,ads",
    DetectUrl:   "http://www.example.com/test.jpg",
    BizType:     "ce25f391a72e11eb99f********",
}
```

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```
res, _, err := c.CI.ImageAuditing(context.Background(), "", opt)
```

Parameter description



```
type ImageRecognitionOptions struct {
    CIProcess        string
    DetectType       string
    DetectUrl        string
    Interval         int
    MaxFrames        int
    BizType          string
```

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```
    LargeImageDetect int
    DataId           string
    Async            int
    Callback         string
}
```

Parameter	Description	Type	Required
name	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`. If the `ImageAuditing` API is used to moderate an image URL, pass in an empty string.	String	Yes
CIProcess	This field identifies the data processing feature, which is `sensitive-content-recognition` for content moderation.	String	Yes
BizType	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console. For more information, see Setting Moderation Policy.	String	No
DetectType	Moderation type, such as `porn` (pornography) and `ads` (advertising). You can select multiple types; for example, `detect-type=porn,ads` indicates to moderate the image for porn and advertising information. If you need to moderate more scenes, use the `BizType` parameter.	String	No
DetectUrl	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 will be 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).	Integer	No
MaxFrames	The maximum number of frames to be captured for GIF image moderation, which must be greater than 0. The default value is	Integer	No

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	`5` , indicating to capture five frames at most.		
LargeImageDetect	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 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.	Integer	No
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` .	String	No
Callback	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

Response description

Calling the `ImageRecognition` or `ImageAuditing` function will parse the XML content returned by the API into the `ImageRecognitionResult` structure. For specific response parameters, see Single Image Moderation.

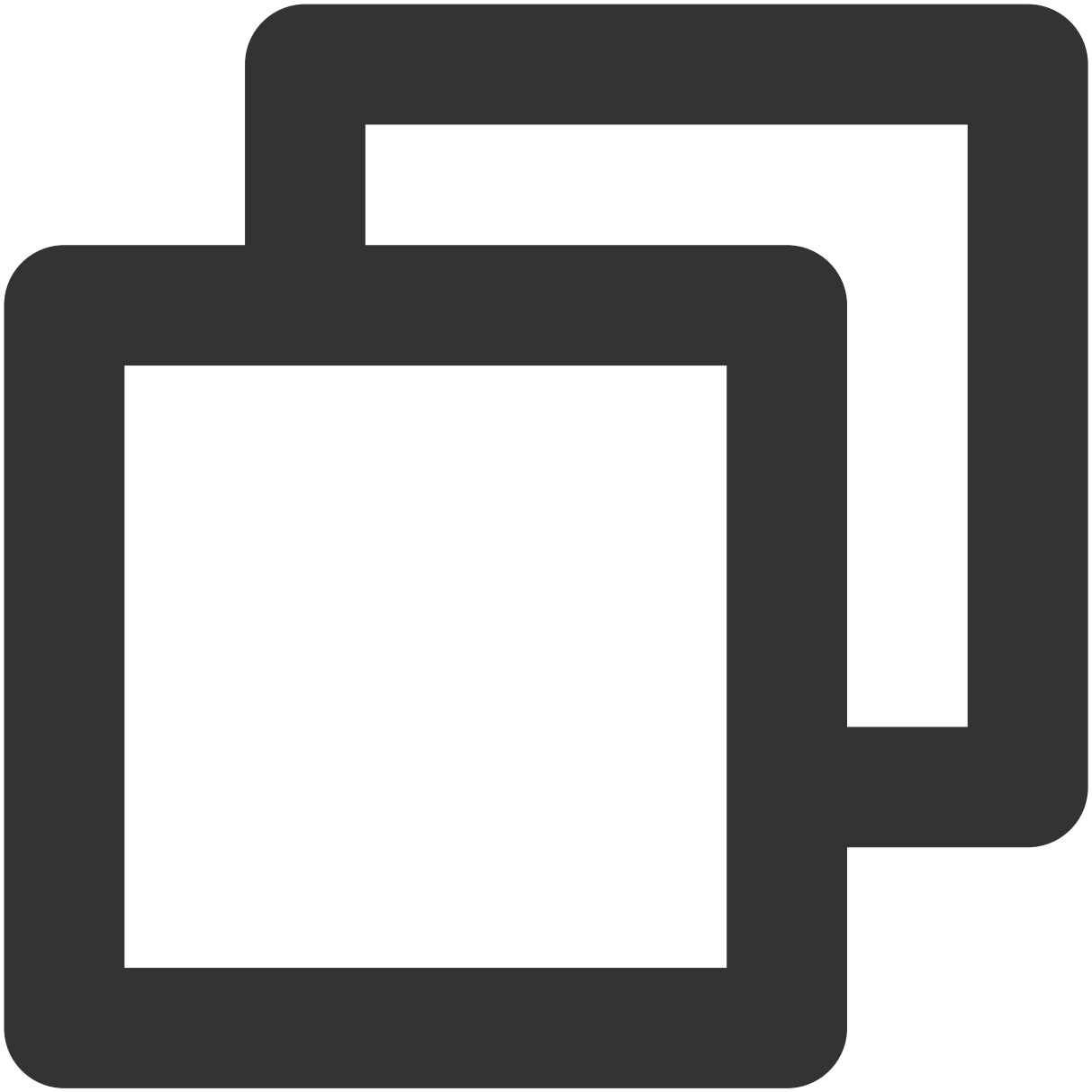
Batch image moderation

Feature description

The batch image moderation API adopts a sync POST request method. You can use this API to perform content moderation on multiple image files.

Method prototype

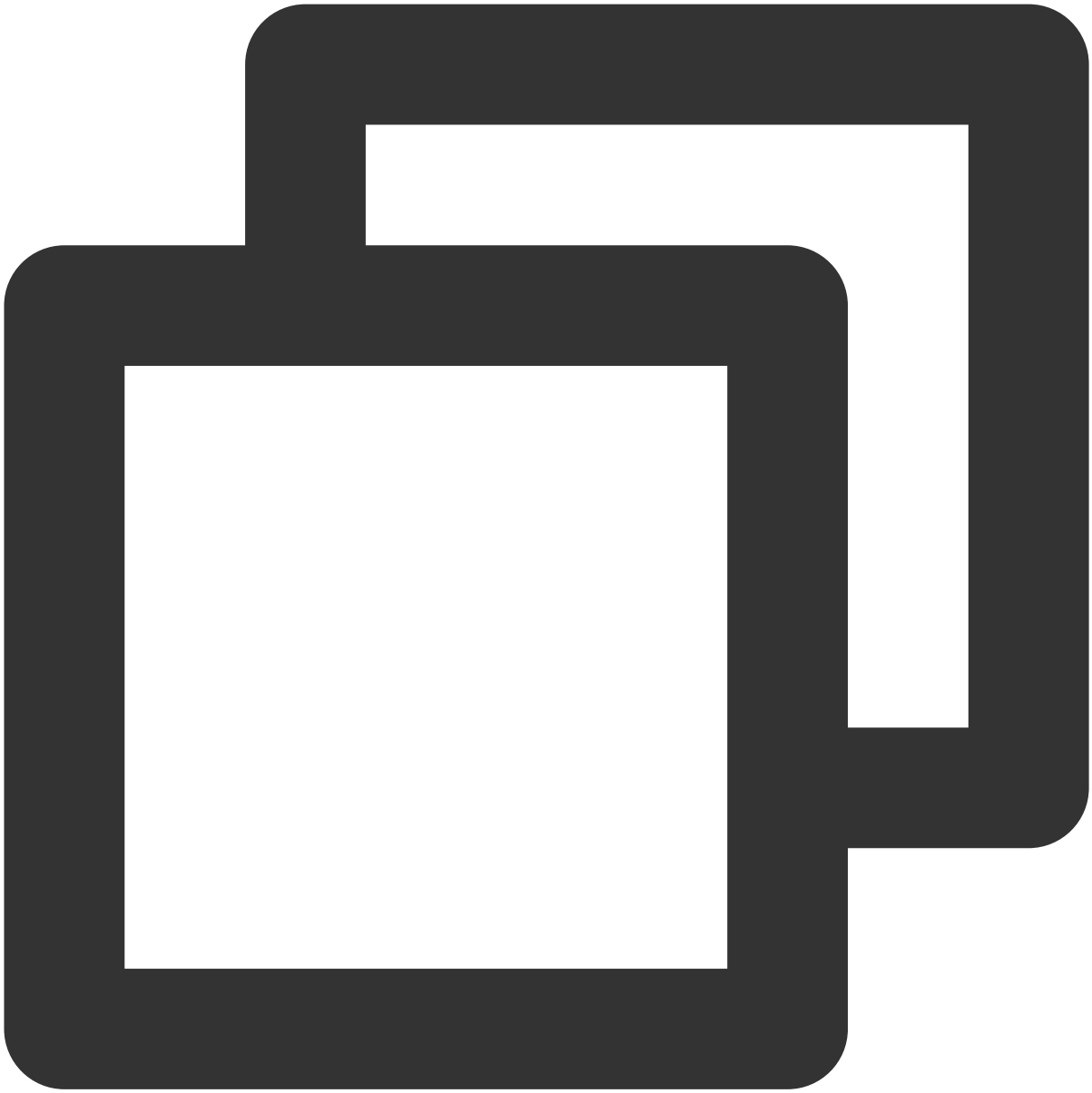
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```
// Batch image moderation
func (s *CIService) BatchImageAuditing(ctx context.Context, opt *BatchImageAuditing
```

Sample request

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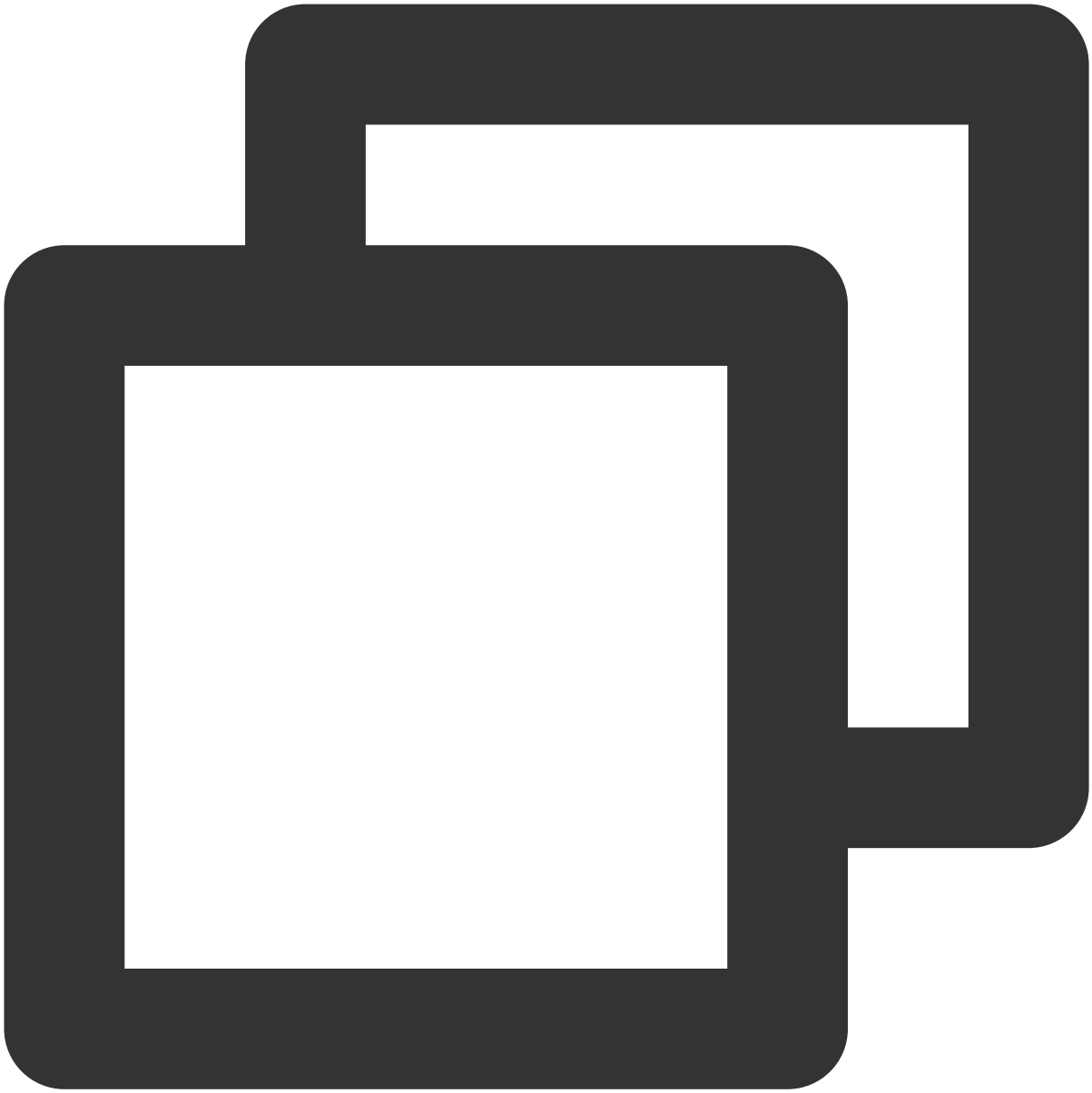
```
// Replace `examplebucket-1250000000` and `COS_REGION` with the actual information
// For CI jobs, you need to provide the CIURL.
bu, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
cu, _ := url.Parse("https://examplebucket-1250000000.ci.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: bu, CIURL: cu}
c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID:  os.Getenv("SECRETID"),
            SecretKey: os.Getenv("SECRETKEY"),
        },
})
```

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```
opt := &cos.BatchImageAuditingOptions{
    Input: []cos.ImageAuditingInputOptions{
        cos.ImageAuditingInputOptions{
                DataId: "1",
                Object: "test.jpg",
        },
        cos.ImageAuditingInputOptions{
                DataId: "2",
                Url: "http://www.example.com/test.jpg",
        },
    },
    Conf: &cos.ImageAuditingJobConf{
        DetectType: "Porn,Ads",
    },
}
res, _, err := c.CI.BatchImageAuditing(context.Background(), opt)
```

Parameter description

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```
type ImageAuditingInputOptions struct {
    DataId           string
    Object           string
    Url              string
    Interval         int
    MaxFrames        int
    LargeImageDetect int
    UserInfo         *UserExtraInfo
}
type UserExtraInfo struct {
    TokenId  string
```

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```
    Nickname string
    DeviceId string
    AppId    string
    Room     string
    IP       string
    Type     string
}
type ImageAuditingJobConf struct {
    DetectType string
    BizType    string
    Async      int
    Callback   string
}
type BatchImageAuditingOptions struct {
    Input   []ImageAuditingInputOptions
    Conf    *ImageAuditingJobConf
}
```

Parameter	Description	Type	Required
DataId	Image ID. This field will return the original content in the result, which can contain up to 512 bytes.	String	No
Object	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`. Either `Object` or `Url` can be selected at a time.	String	No
Url	Full URL of the image file, such as `http://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/image.jpg`. Either `Object` or `Url` can be selected at a time.	String	No
Interval	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).	Integer	No
MaxFrames	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.	Integer	No
BizType	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console. For more information, see Setting Moderation Policy.	String	No

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DetectType	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads`. If you need to moderate more scenes, use the `BizType` parameter.	String	No
Async	Whether to moderate asynchronously. Valid values: `0` (returns the result synchronously); `1` (moderates asynchronously). Default value: `0`.	String	No
Callback	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
LargeImageDetect	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 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.	Integer	No
UserInfo	Business field.	Object	No

Response description

Calling the `BatchImageAuditing` function will parse the XML content returned by the API into the `BatchImageAuditingJobResult` structure. For specific response parameters, see Batch Image Moderation.

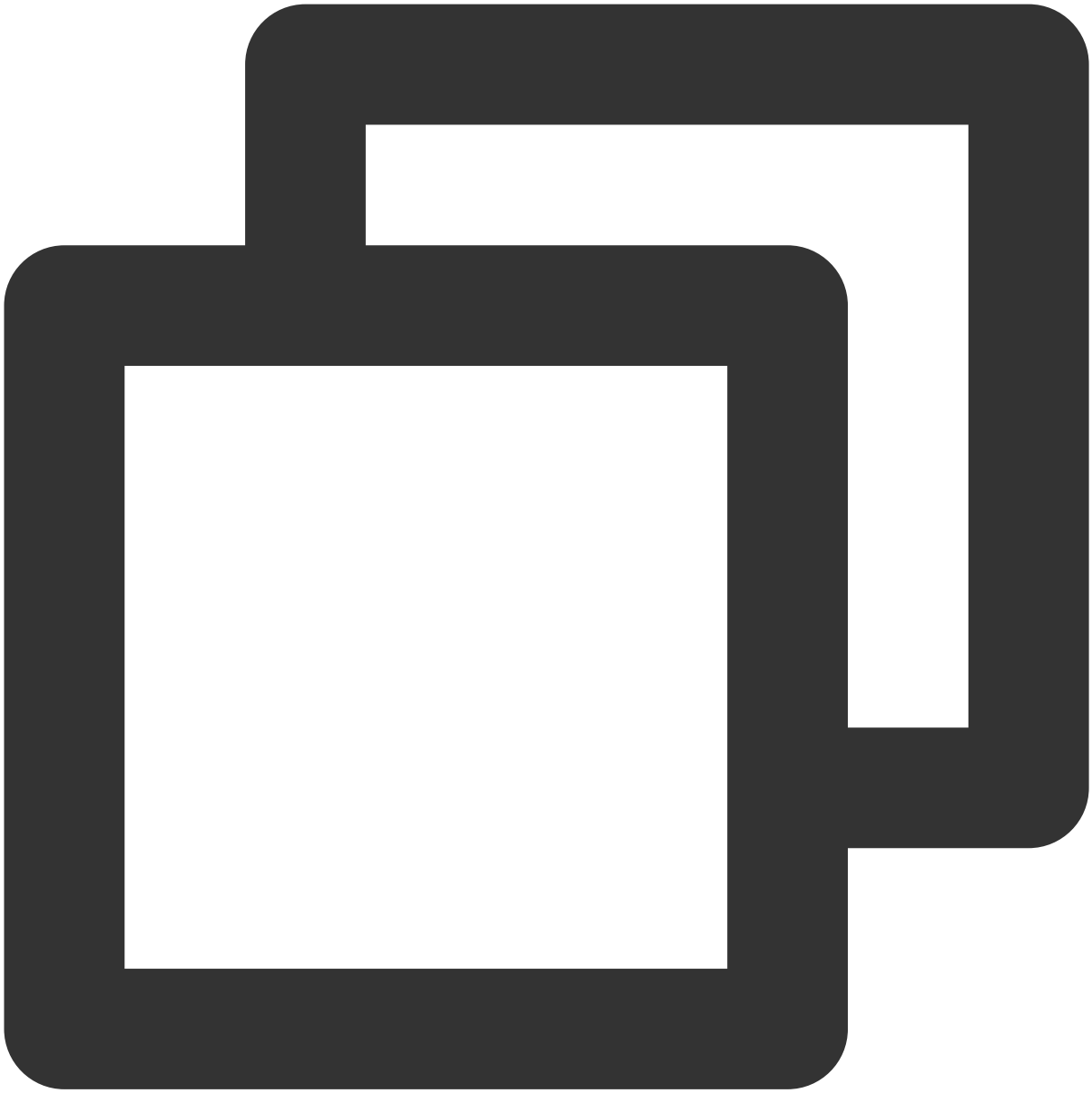
Querying image moderation job result

Feature description

This API is used to query the result of an image moderation job. The API request is a `GET` request.

Method prototype

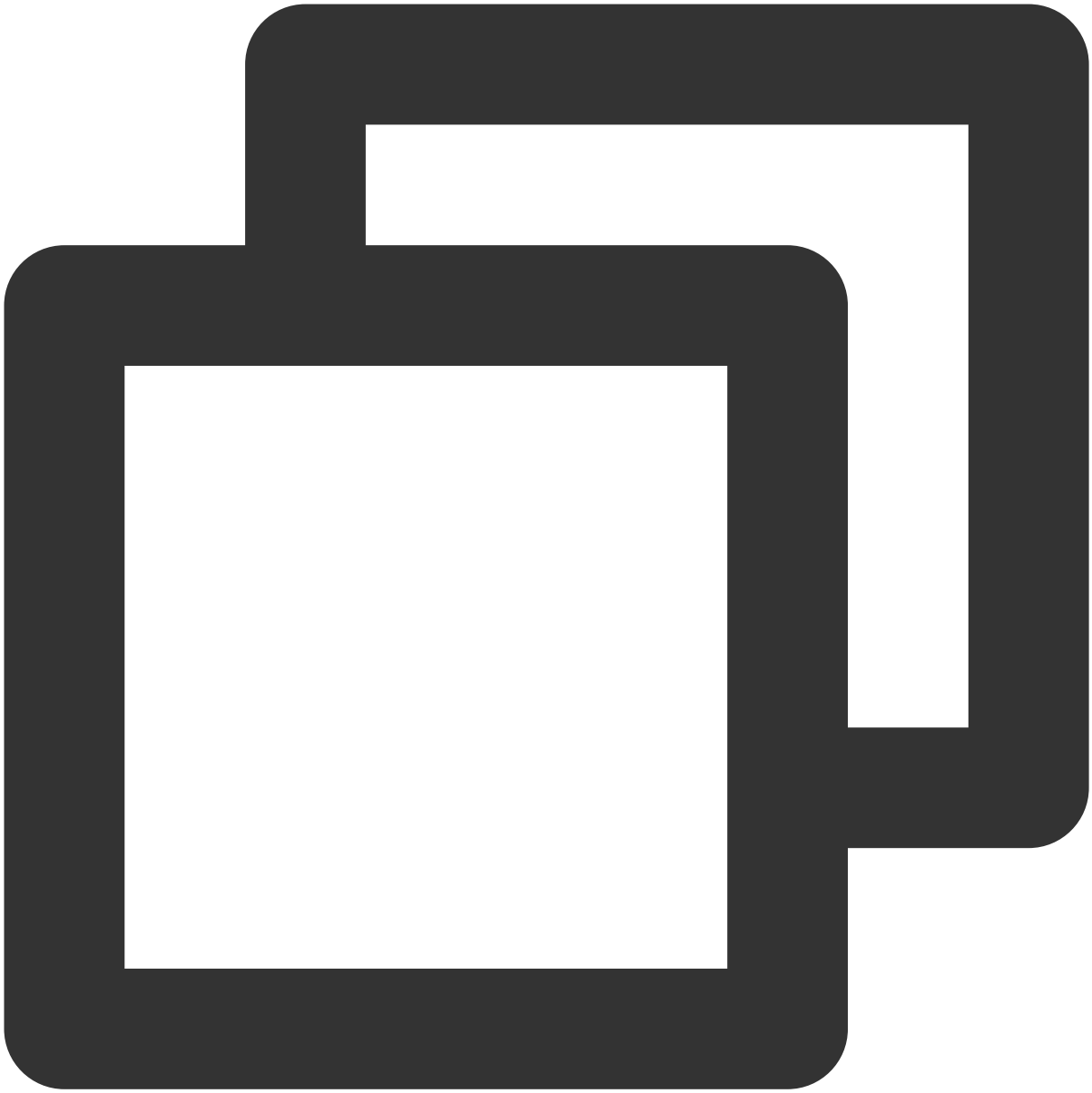
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```
// Image moderation - job query
func (s *CIService) GetImageAuditingJob(ctx context.Context, jobid string) (*GetIma
```

Sample request

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```
jobId := "iace25f391a72e11eb99f********"
res, _, err := c.CI.GetImageAuditingJob(context.Background(), jobId)
```

Parameter description

Parameter	Description	Type
jobId	Job ID	String

Response description

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Calling the `GetImageAuditingJob` function will parse the XML content returned by the API into the `GetImageAuditingJobResult` structure. For specific response parameters, see Querying Image Moderation Job Result.

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Video Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

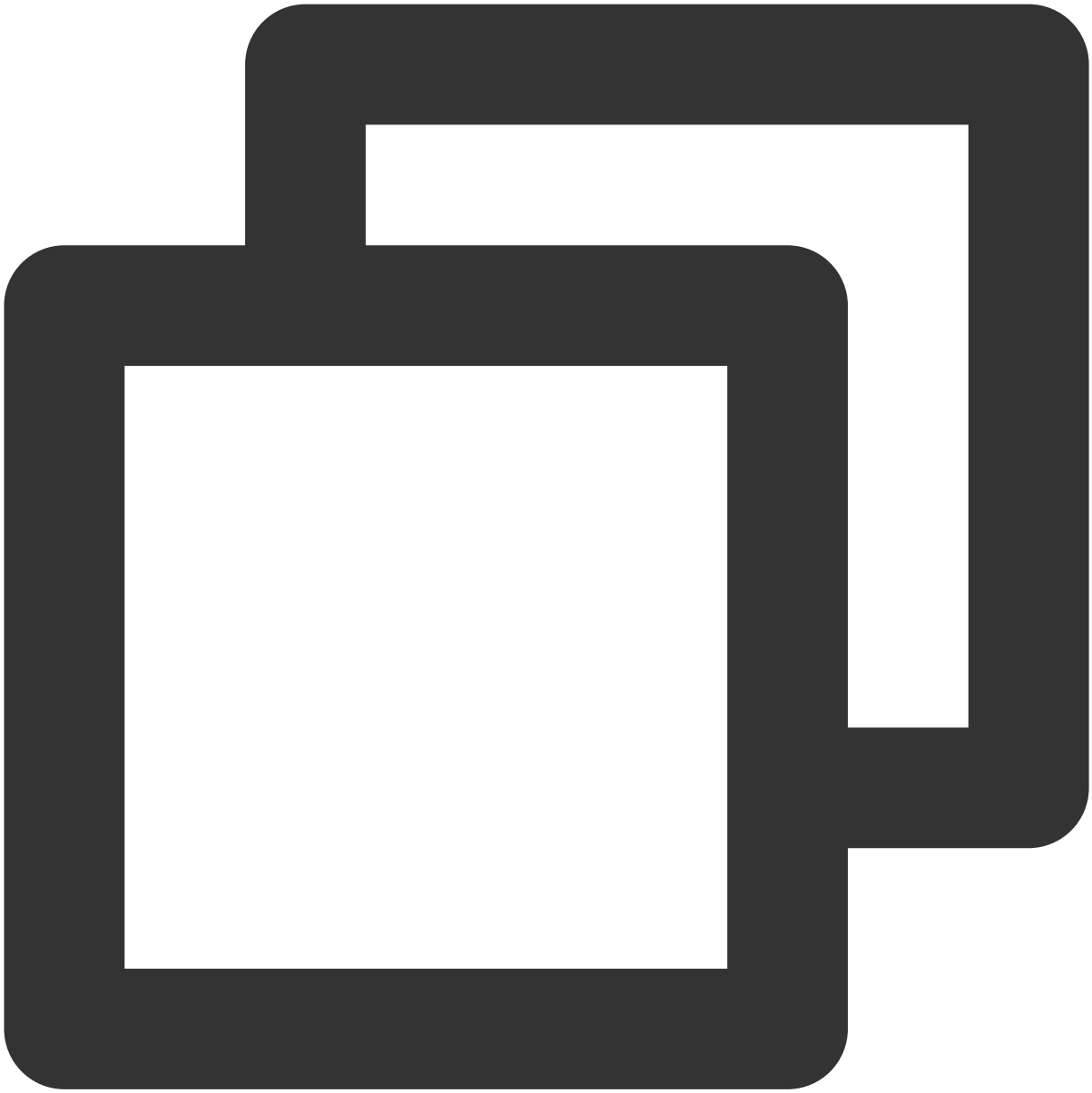
API	Description
Submitting video moderation job	Submits a video moderation job.
Querying video moderation job result	Queries the result of a specified video moderation job.

Creating a Job

This API (`PutVideoAuditingJob`) is used to submit a video moderation job. You can receive the moderation result by setting the callback address or querying by `JobId` .

Method prototype

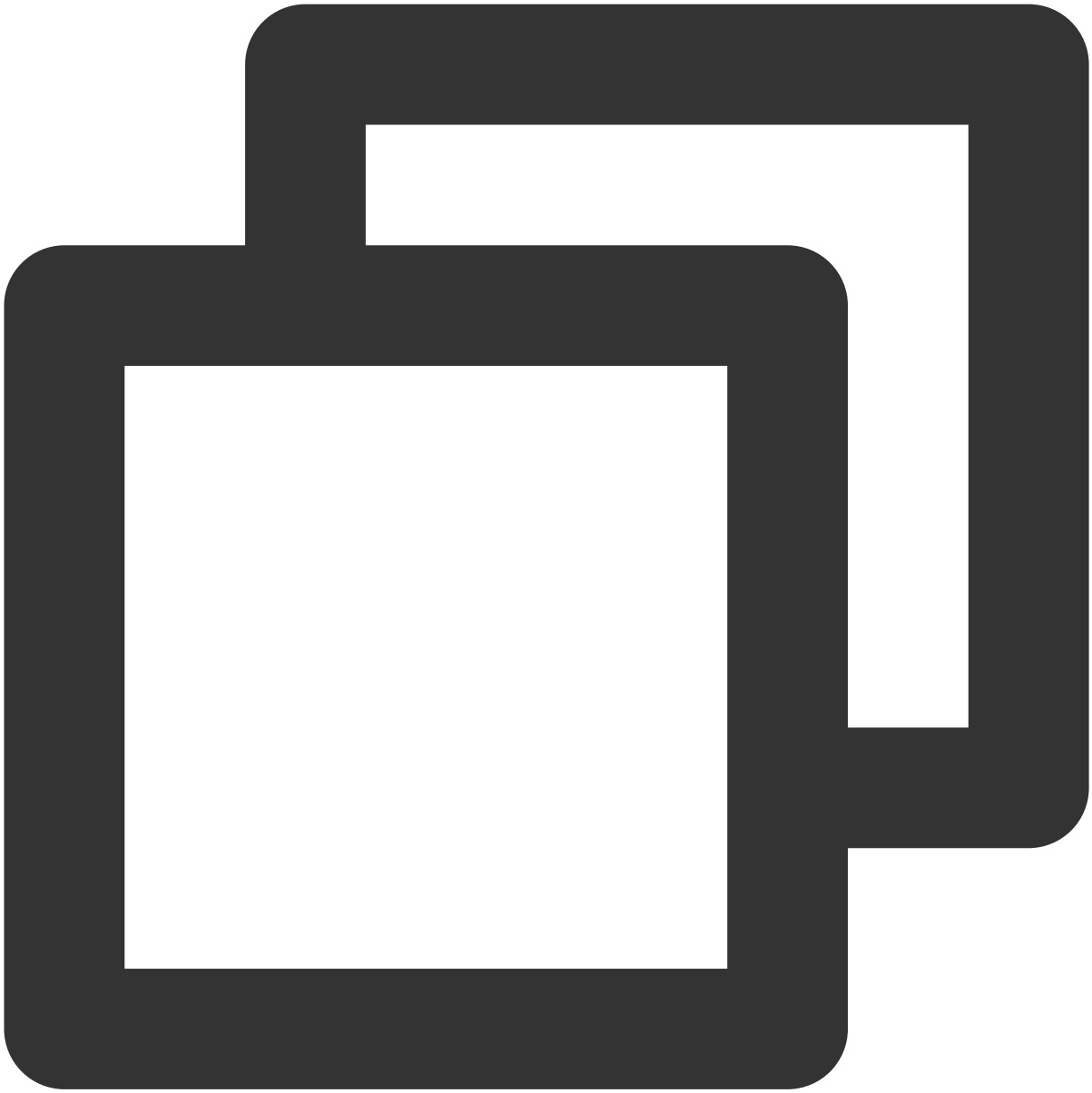
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```
func (s *CIService) PutVideoAuditingJob(ctx context.Context, opt *PutVideoAuditingJ
```

Sample request

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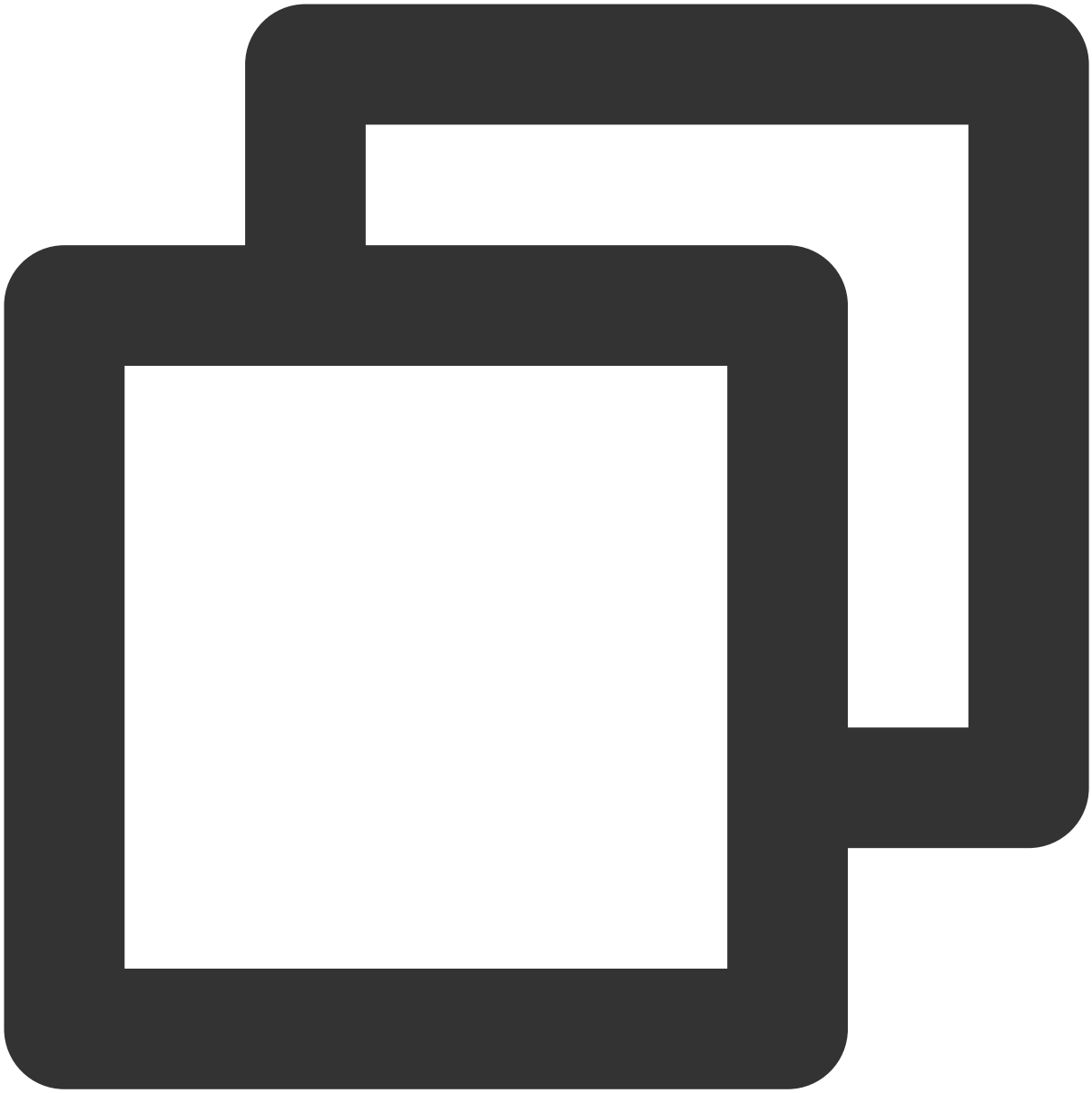
```
// Replace examplebucket-1250000000 and COS_REGION with the actual information.
// For CI jobs, you need to provide the CIURL.
bu, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
cu, _ := url.Parse("https://examplebucket-1250000000.ci.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: bu, CIURL: cu}
c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID:  os.Getenv("SECRETID"),
            SecretKey: os.Getenv("SECRETKEY"),
        }
})
```

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```
opt := &cos.PutVideoAuditingJobOptions{
    InputObject: "demo.mp4",
    Conf: &cos.VideoAuditingJobConf{
        DetectType: "Porn,Ads",
        Snapshot: &cos.PutVideoAuditingJobSnapshot{
            Mode:         "Interval",
            TimeInterval: 50.5,
            Count:        100,
        },
    },
}
res, _, err := c.CI.PutVideoAuditingJob(context.Background(), opt)
```

Parameter description

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```
type PutVideoAuditingJobOptions struct {
    InputObject   string
    InputUrl      string
    InputDataId   string
    InputUserInfo *UserExtraInfo
    Conf          *VideoAuditingJobConf
    Type          string
}
type UserExtraInfo struct {
    TokenId  string
    Nickname string
```

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```
    DeviceId string
    AppId    string
    Room     string
    IP       string
    Type     string
}
type VideoAuditingJobConf struct {
    DetectType      string
    Snapshot        *PutVideoAuditingJobSnapshot
    Callback        string
    CallbackVersion string
    CallbackType    int
    BizType         string
    DetectContent   int
}
type PutVideoAuditingJobSnapshot struct {
    Mode         string
    Count        int
    TimeInterval float32
}
```

Parameter	Description	Type
InputObject	Name of the video file in the COS bucket; for example, if the file is `video.mp4` in the `test` directory, then the filename is `test/video.mp4`. Either `Object` or `Url` can be selected at a time.	String
InputUrl	Full URL of the video file, such as `http://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/test.mp4`. Either `Object` or `Url` can be selected at a time.	String
InputDataId	Video ID. This field will return the original content in the result, which can contain up to 512 bytes.	String
InputUserInfo	Business field.	Object
Type	Moderation job type, which is fixed at `live_video` for live stream moderation.	String
Conf	Moderation rule configuration.	Struct
BizType	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console as instructed in Setting Moderation Policy.	String
DetectType	The scene to be moderated, such as `Porn` (pornography) and `Ads`	String

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	(advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads`. If you need to moderate more scenes, use the `BizType` parameter.	
Snapshot	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.	Struct
Callback	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
CallbackVersion	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
CallbackType	Callback segment type. Valid values: `1` (calls back all captured frames and audio segments); `2` (calls back only non-compliant captured frames and audio segments). Default value: `1`.	Integer
DetectContent	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
Mode	Frame capturing mode. Valid values: `Interval` (interval mode), `Average` (average mode), `Fps` (fixed frame rate mode). Default value: `Interval`. `Interval` mode: The `TimeInterval` and `Count` parameters take effect. If `Count` is set but `TimeInterval` is not, all frames will be captured to generate a total of `Count` images. `Average` mode: The `Count` parameter takes effect, indicating to capture a total of `Count` images at an average interval in the entire video. `Fps` mode: `TimeInterval` indicates how many frames to capture per second. If `TimeInterval` is not set, all frames will be captured to generate a total of `Count` images.	String
Count	The number of captured frames. Value range: (0, 10000].	Integer
TimeInterval	Video frame capturing frequency. Value range: (0.000, 60.000] seconds. The value supports the float format, accurate to the millisecond.	Float

Response description

Calling the `PutVideoAuditingJob` function will parse the XML content returned by the API into the `PutVideoAuditingJobResult` structure. For specific response parameters, see Submitting Video Moderation

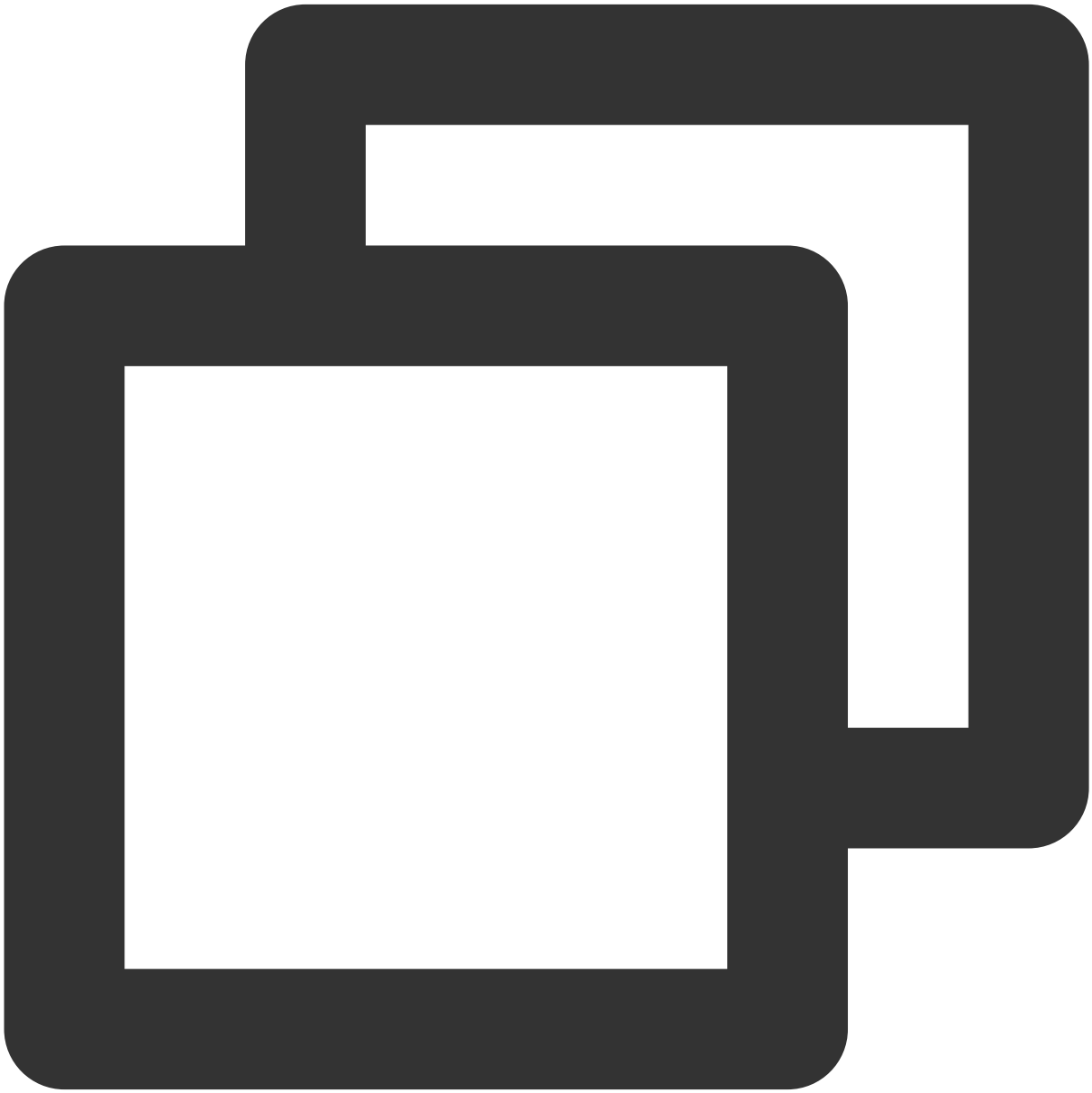
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Job.

Querying a Job

This API (`GetVideoAuditingJob`) is used to query the result of the specified video moderation job by `JobId` .

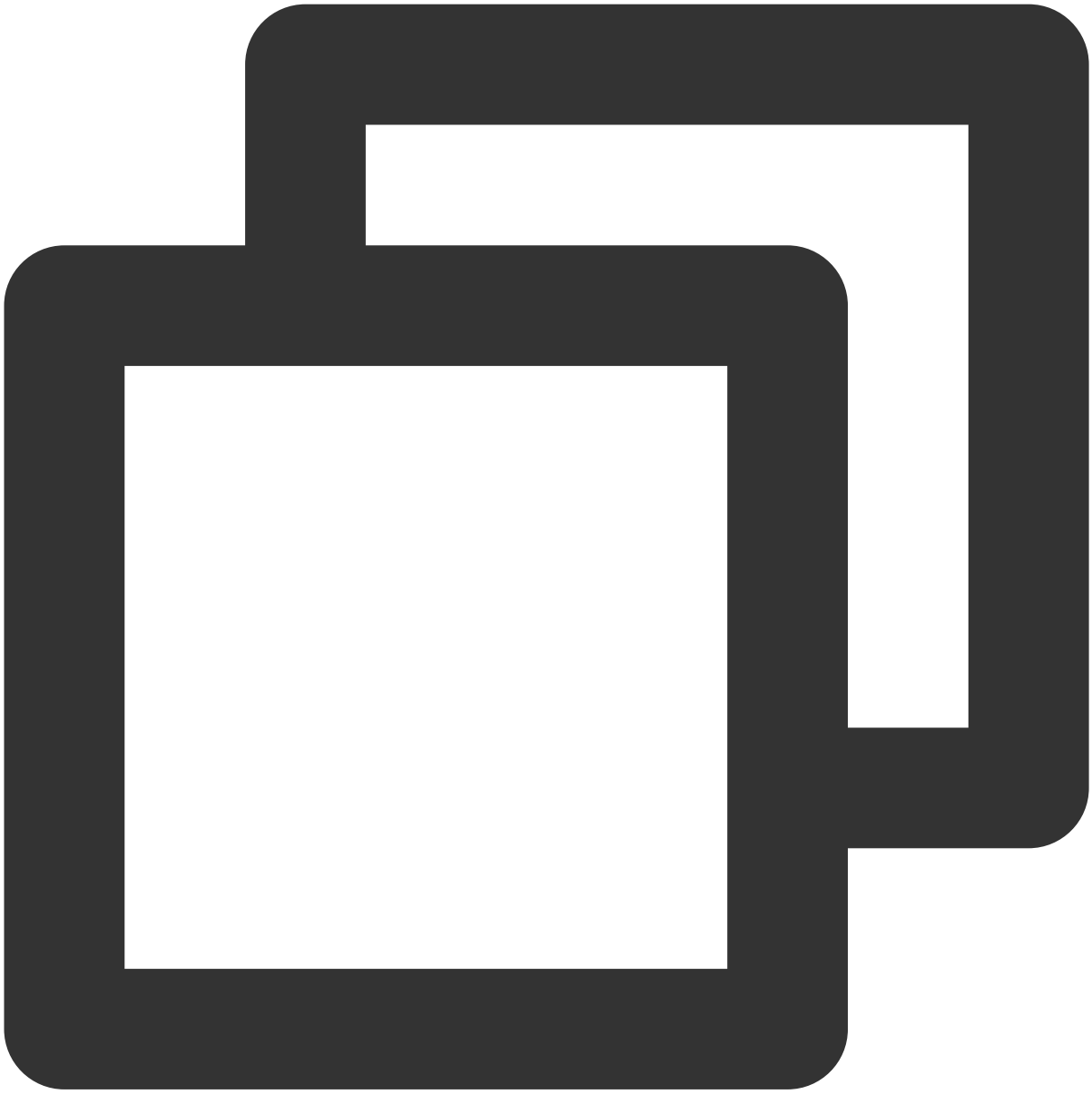
Method prototype



```
func (s *CIService) GetVideoAuditingJob(ctx context.Context, jobid string) (*GetVid
```

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Sample request



```
// Replace examplebucket-1250000000 and COS_REGION with the actual information.
// For CI jobs, you need to provide the CIURL.
bu, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
cu, _ := url.Parse("https://examplebucket-1250000000.ci.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: bu, CIURL: cu}
c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID:  os.Getenv("SECRETID"),
```

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```
            SecretKey: os.Getenv("SECRETKEY"),
        }
})
jobId := "avce25f391a72e11eb99f********"
res, _, err := c.CI.GetVideoAuditingJob(context.Background(), jobId)
```

Parameter description

Parameter	Description	Type
jobId	Job ID	String

Response description

Calling the `GetVideoAuditingJob` function will parse the XML content returned by the API into the `GetVideoAuditingJobResult` structure. For specific response parameters, see Querying Video Moderation Job Result.

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Audio Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for audio moderation.

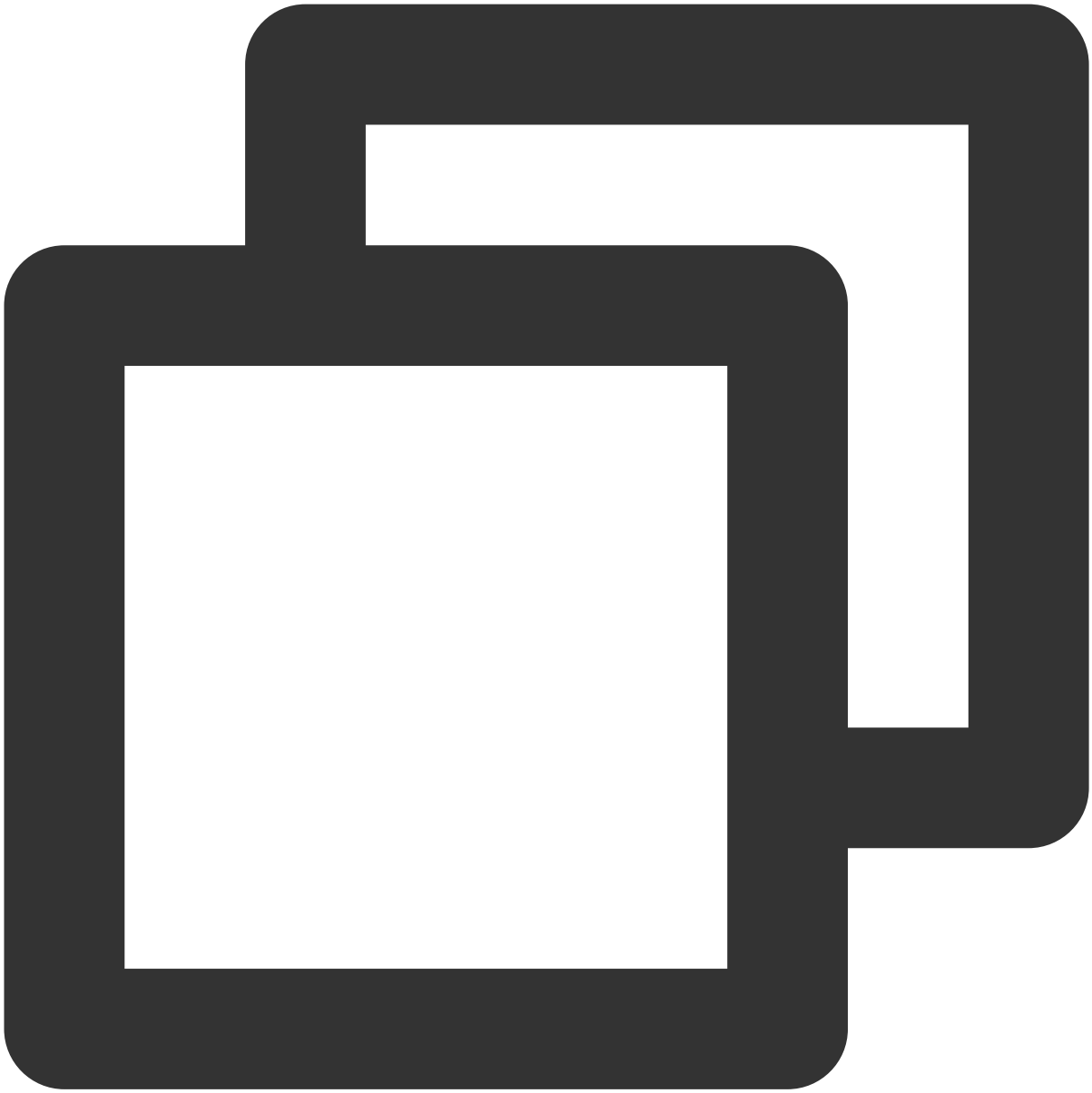
API	Description
Submitting audio moderation job	Submits an audio moderation job.
Querying audio moderation job result	Queries the result of a specified audio moderation job.

Creating a Job

This API (`PutAudioAuditingJob`) is used to submit an audio moderation job. You can receive the moderation result by setting the callback address or querying by `JobId` .

Method prototype

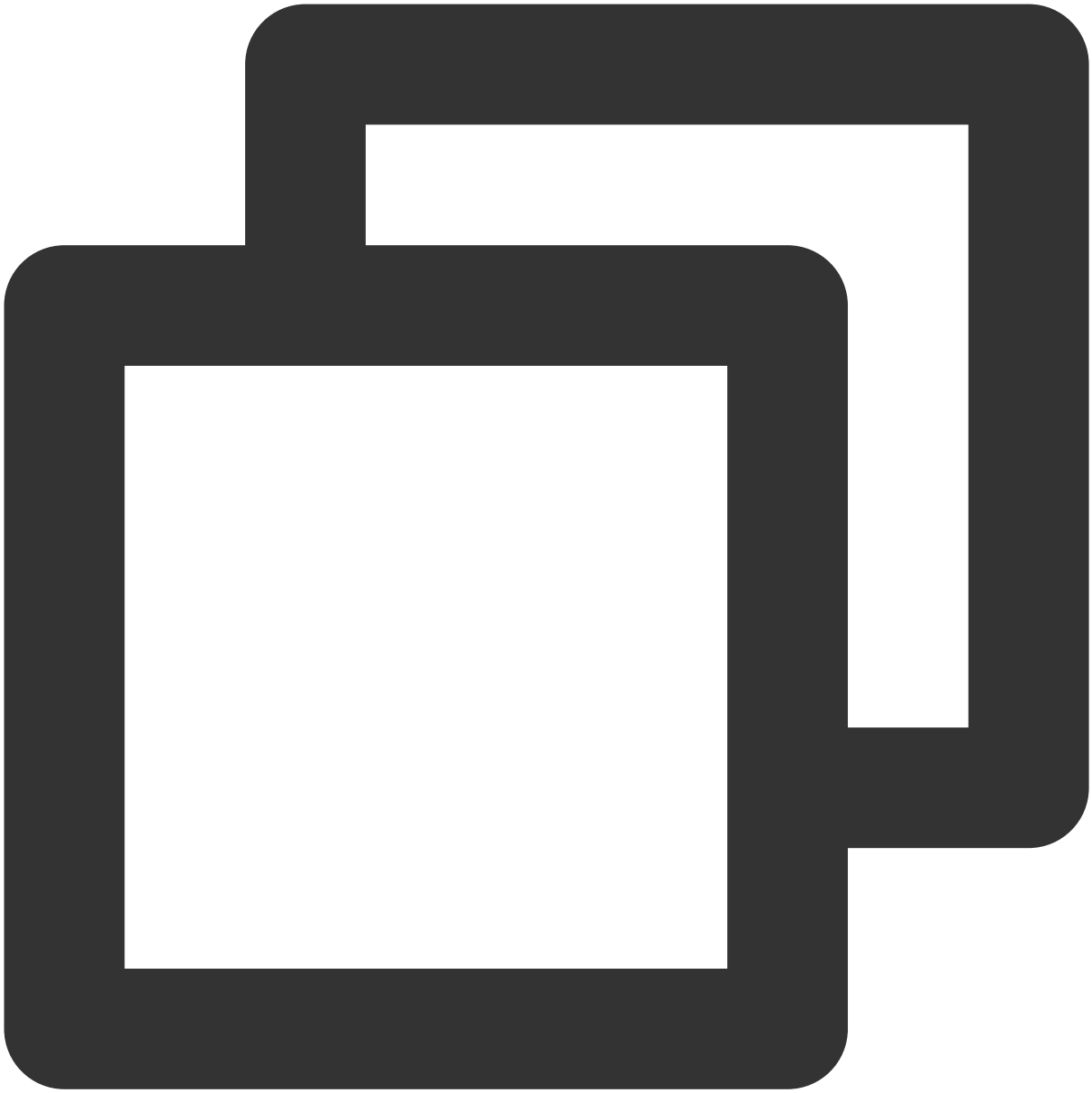
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```
func (s *CIService) PutAudioAuditingJob(ctx context.Context, opt *PutAudioAuditingJ
```

Sample request

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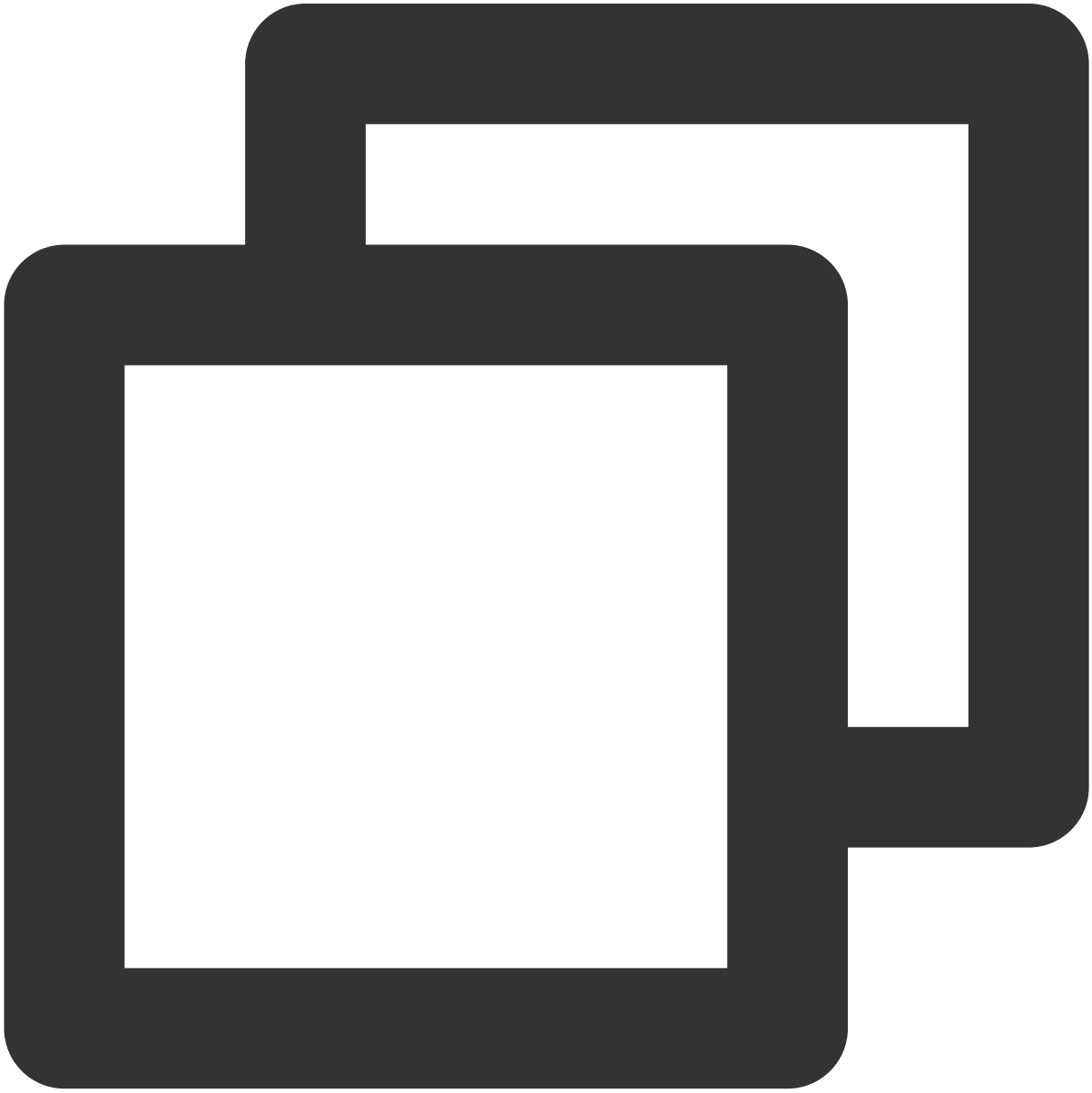


```
// Replace examplebucket-1250000000 and COS_REGION with the actual information.
// For CI jobs, you need to provide the CIURL.
bu, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
cu, _ := url.Parse("https://examplebucket-1250000000.ci.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: bu, CIURL: cu}
c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID:  os.Getenv("SECRETID"),
            SecretKey: os.Getenv("SECRETKEY"),
        }
})
```

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```
opt := &cos.PutAudioAuditingJobOptions{
    InputObject: "test.mp3",
    Conf: &cos.AudioAuditingJobConf{
        DetectType: "Porn,Ads",
    },
}
res, _, err := c.CI.PutAudioAuditingJob(context.Background(), opt)
```

Parameter description



```
type PutAudioAuditingJobOptions struct {
```

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```
    InputObject   string
    InputUrl      string
    InputDataId   string
    InputUserInfo *UserExtraInfo
    Conf          *AudioAuditingJobConf
}
type UserExtraInfo struct {
    TokenId  string
    Nickname string
    DeviceId string
    AppId    string
    Room     string
    IP       string
    Type     string
}
type AudioAuditingJobConf struct {
    DetectType      string
    Callback        string
    CallbackVersion string
    BizType         string
}
```

Parameter	Description	Type
InputObject	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
InputUrl	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
InputDataId	Audio ID. This field will return the original content in the result, which can contain up to 512 bytes.	String
InputUserInfo	Business field.	Object
Conf	Moderation rule configuration.	Struct
BizType	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console as instructed in Setting Moderation Policy.	String
DetectType	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads`. If you need to moderate more scenes, use the `BizType` parameter.	String

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Callback	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
CallbackVersion	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

Response description

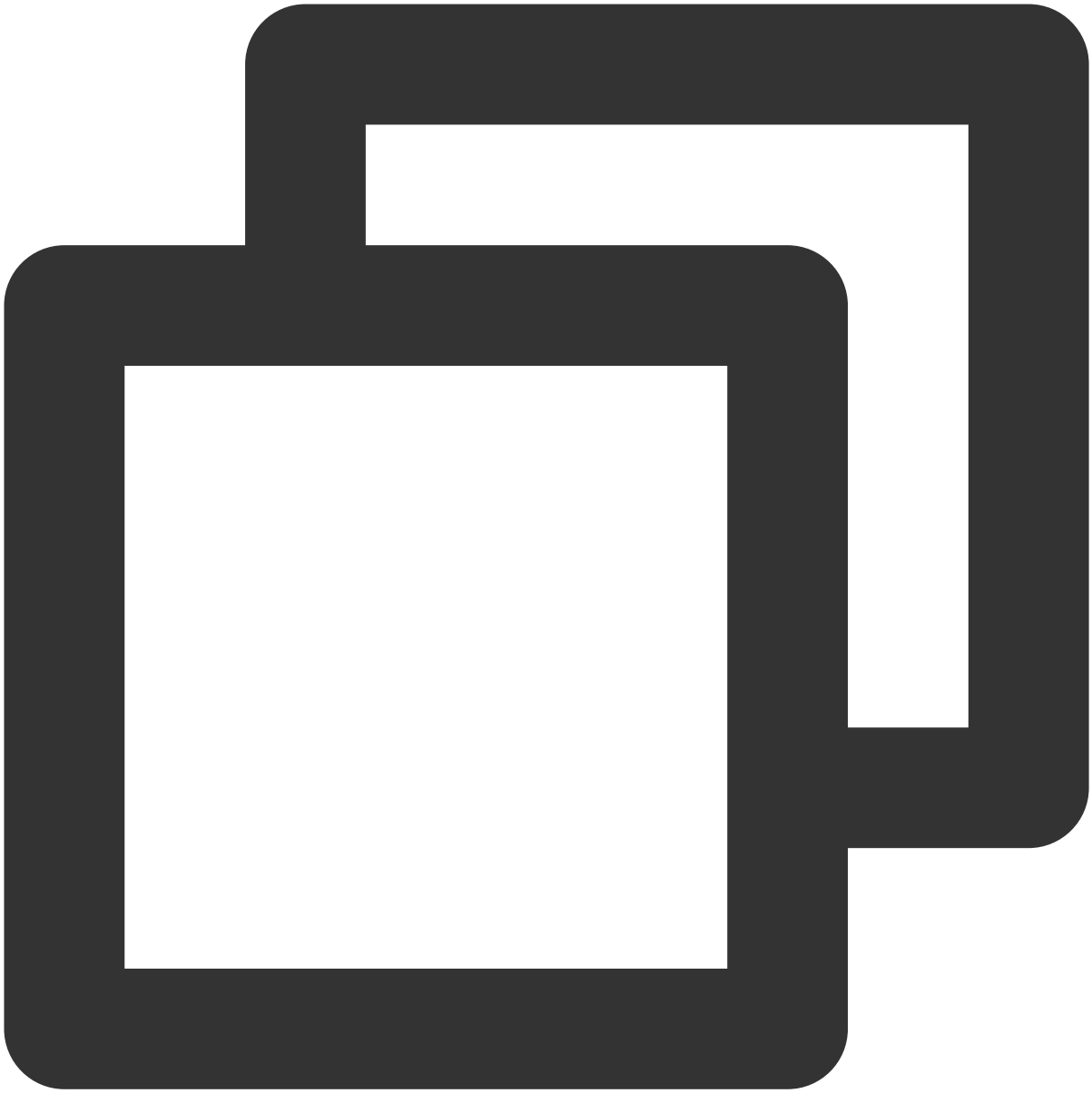
Calling the `PutAudioAuditingJob` function will parse the XML content returned by the API into the `PutAudioAuditingJobResult` structure. For specific response parameters, see Submitting Audio Moderation Job.

Querying a Job

This API (`GetAudioAuditingJob`) is used to query the result of the specified audio moderation job by `JobId` .

Method prototype

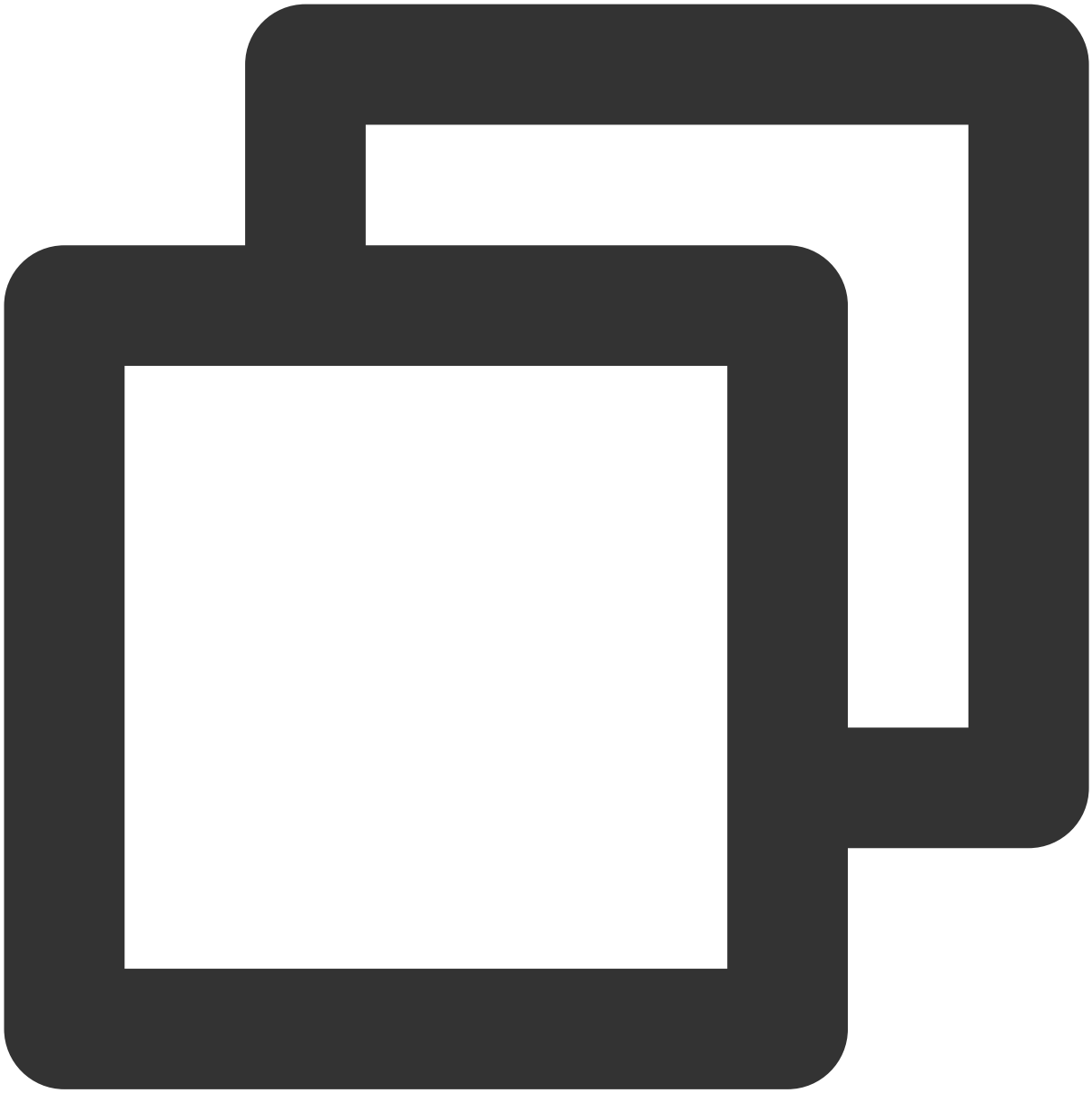
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```
func (s *CIService) GetAudioAuditingJob(ctx context.Context, jobid string) (*GetAud
```

Sample request

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```
// Replace examplebucket-1250000000 and COS_REGION with the actual information.
// For CI jobs, you need to provide the CIURL.
bu, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
cu, _ := url.Parse("https://examplebucket-1250000000.ci.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: bu, CIURL: cu}
c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID:  os.Getenv("SECRETID"),
            SecretKey: os.Getenv("SECRETKEY"),
        }
})
```

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```
jobId := "sace25f391a72e11eb99f********"
res, _, err := c.CI.GetAudioAuditingJob(context.Background(), jobId)
```

Parameter description

Parameter	Description	Type
jobId	Job ID.	String

Response description

Calling the `GetAudioAuditingJob` function will parse the XML content returned by the API into the `GetAudioAuditingJobResult` structure. For specific response parameters, see Querying Audio Moderation Job Result.

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Text Moderation

Last updated：2024-02-29 16:52:32

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for text moderation.

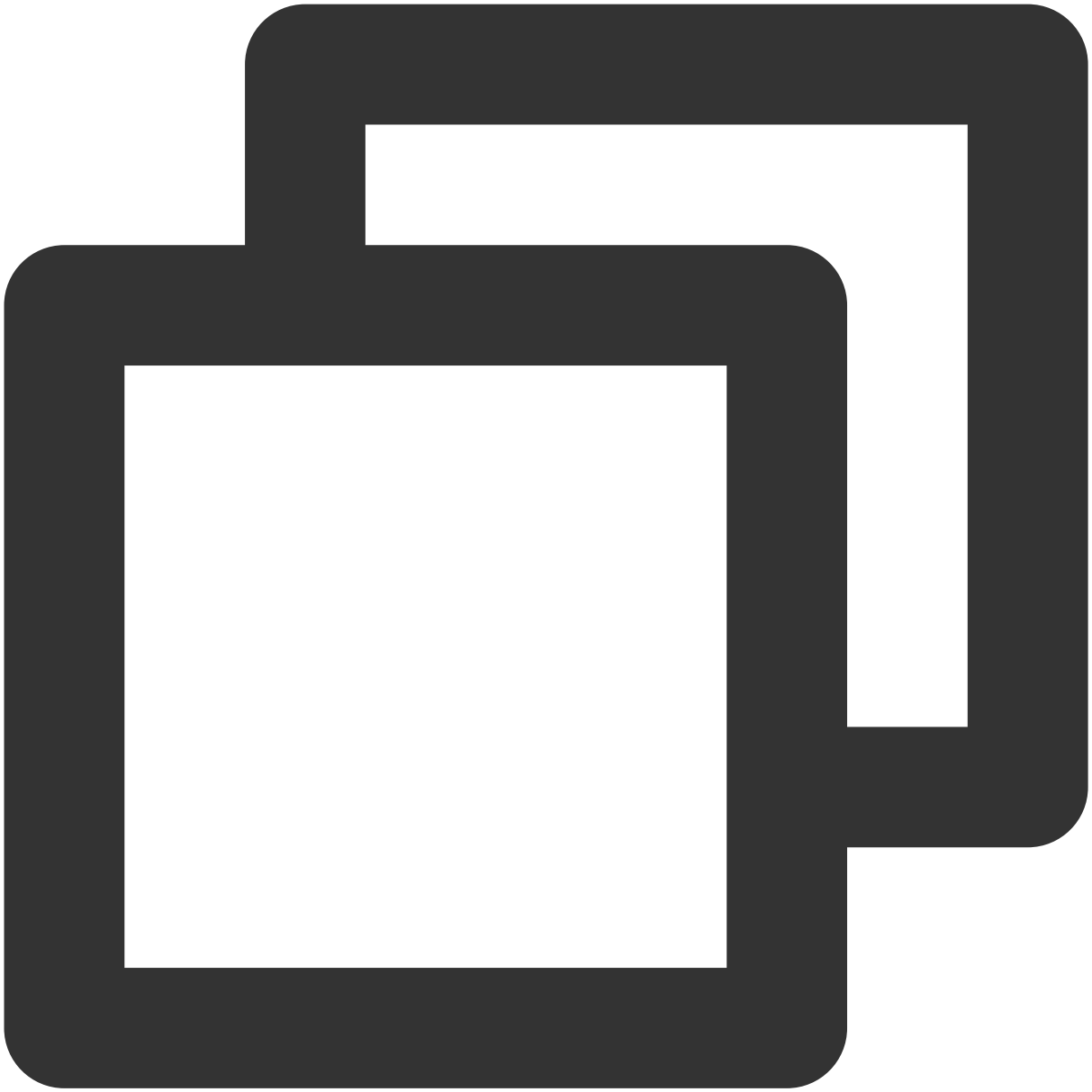
API	Description
Submitting text moderation job	Submits a text moderation job.
Querying text moderation job result	Queries the result of a specified text moderation job.

Creating a Job

This API (`PutTextAuditingJob`) is used to submit a text moderation job. If the text content is moderated, the response body will directly return the moderation result. If the text object is moderated, the job summary will be returned. You can receive the moderation result by setting the callback address or querying by `JobId` .

Method prototype

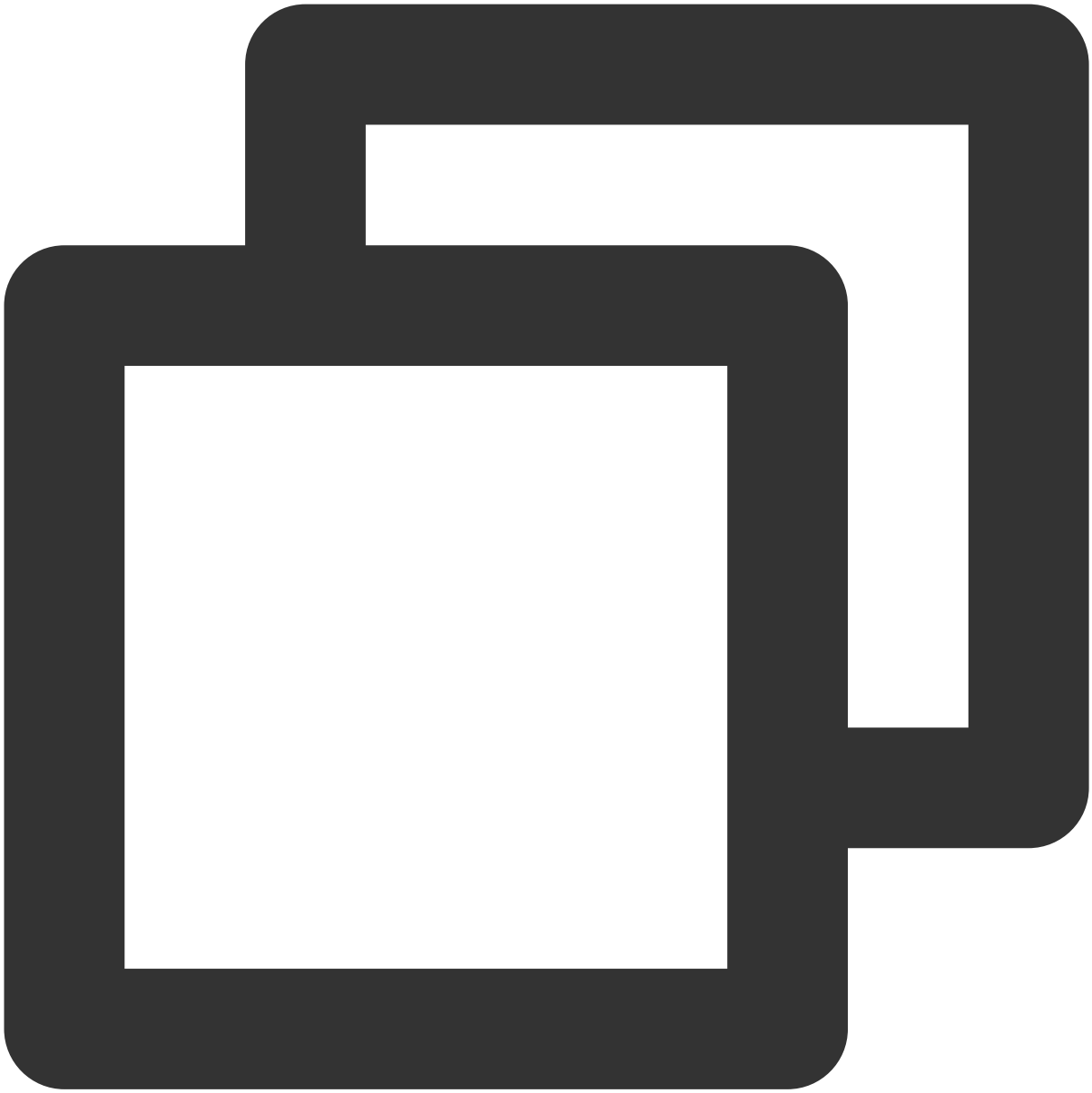
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```
func (s *CIService) PutTextAuditingJob(ctx context.Context, opt *PutTextAuditingJob
```

Sample request

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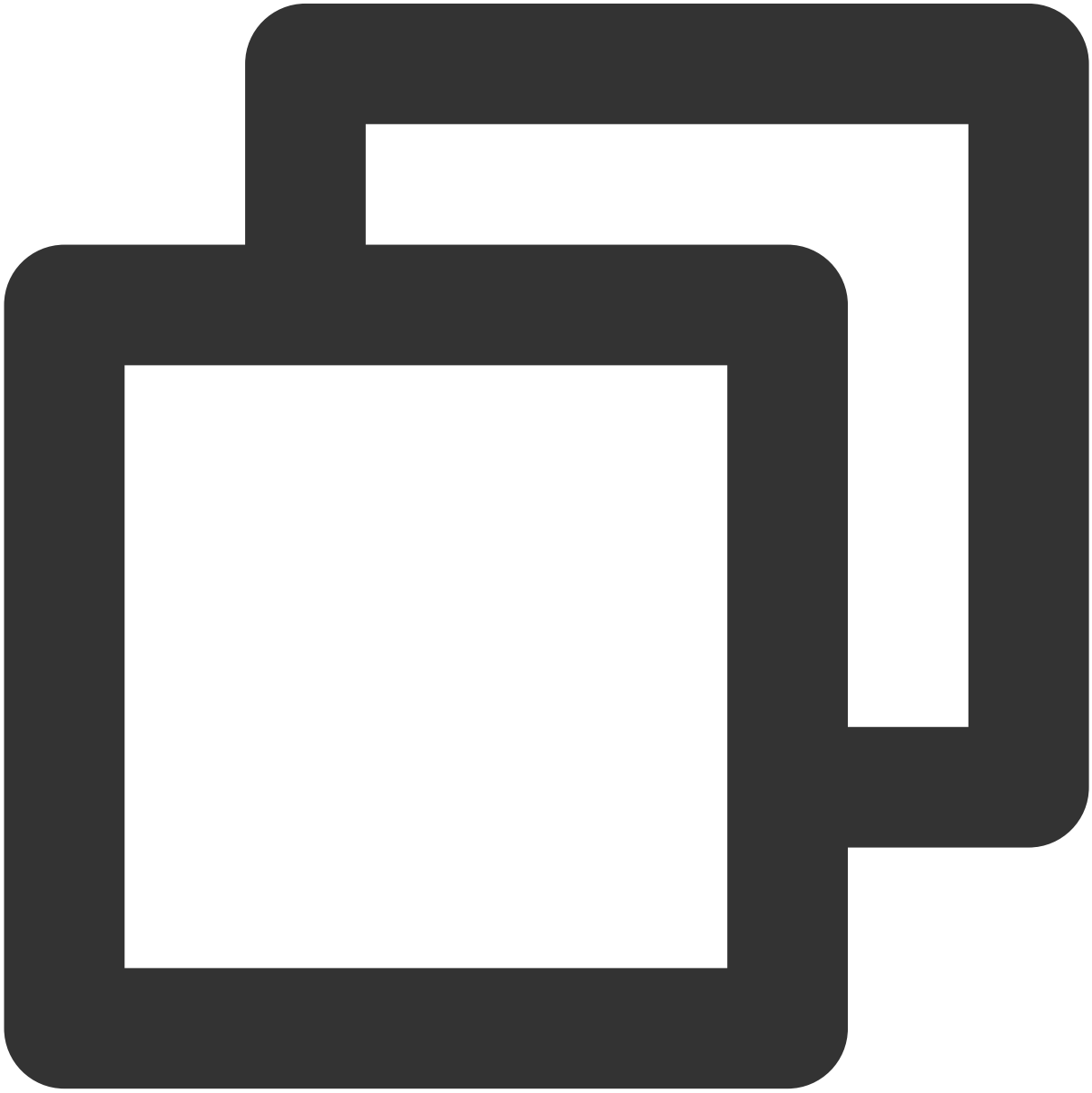


```
// Replace examplebucket-1250000000 and COS_REGION with the actual information.
// For CI jobs, you need to provide the CIURL.
bu, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
cu, _ := url.Parse("https://examplebucket-1250000000.ci.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: bu, CIURL: cu}
c := cos.NewClient(b, &http.Client{
        Transport: &cos.AuthorizationTransport{
            SecretID:  os.Getenv("SECRETID"),
            SecretKey: os.Getenv("SECRETKEY"),
        }
})
```

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```
opt := &cos.PutTextAuditingJobOptions{
    InputObject: "test.txt",
    Conf: &cos.TextAuditingJobConf{
        DetectType: "Porn,Ads",
    },
}
res, _, err := c.CI.PutTextAuditingJob(context.Background(), opt)
```

Parameter description



```
type PutTextAuditingJobOptions struct {
```

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```
    InputObject   string
    InputUrl      string
    InputContent  string
    InputDataId   string
    InputUserInfo *UserExtraInfo
    Conf          *TextAuditingJobConf
}
type UserExtraInfo struct {
    TokenId  string
    Nickname string
    DeviceId string
    AppId    string
    Room     string
    IP       string
    Type     string
}
type TextAuditingJobConf struct {
    DetectType      string
    Callback        string
    CallbackVersion string
    BizType         string
}
```

Parameter	Description	Type
InputObject	Name of the text file stored in the current COS bucket; for example, if the file is `test.txt` in the `test` directory, then the filename is `test/test.txt`. Only text files in UTF-8 and GBK encodings are supported, and the file size cannot exceed 1 MB. You can select only one parameter among `Object`, `Url`, and `Content` at a time.	String
InputContent	When the input content is plain text, it needs to be Base64-encoded first. The length of the original text before encoding cannot exceed 10,000 UTF-8 characters. If the length limit is exceeded, the API will report an error. You can select only one parameter among `Object`, `Url`, and `Content` at a time.	String
InputUrl	Full URL of the text file, such as `http://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/test.txt`. You can select only one parameter among `Object`, `Url`, and `Content` at a time.	String
InputDataId	Text ID. This field will return the original content in the result, which can contain up to 512 bytes.	String
InputUserInfo	Business field.	Object

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Conf	Moderation rule configuration.	Struct
BizType	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console as instructed in Setting Moderation Policy.	String
DetectType	The scene to be moderated. Valid values: `Porn` (pornography), `Ads` (advertising), `Illegal` (law violation), and `Abuse` (abuse). You can pass in multiple types and separate them by comma, such as `Porn,Ads`. If you need to moderate more scenes, use the `BizType` parameter.	String
Callback	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`. If `Input` is `Content`, this parameter will not take effect, and the result will be returned directly.	String
CallbackVersion	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

Response description

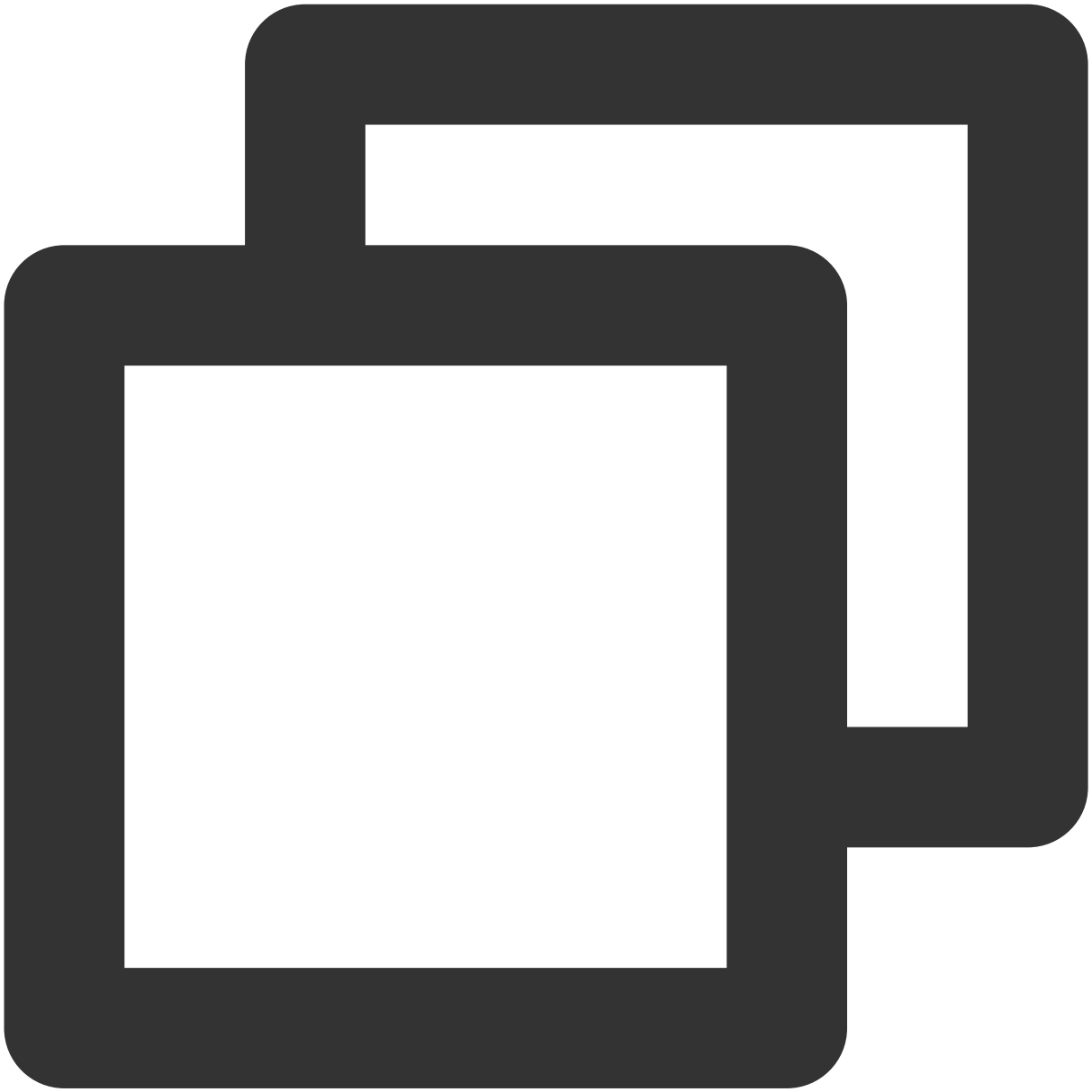
Calling the `PutTextAuditingJob` function will parse the XML content returned by the API into the `PutTextAuditingJobResult` structure. For specific response parameters, see Submitting Text Moderation Job.

Querying a Job

This API (`GetTextAuditingJob`) is used to query the result of the specified text moderation job by `JobId`.

Method prototype

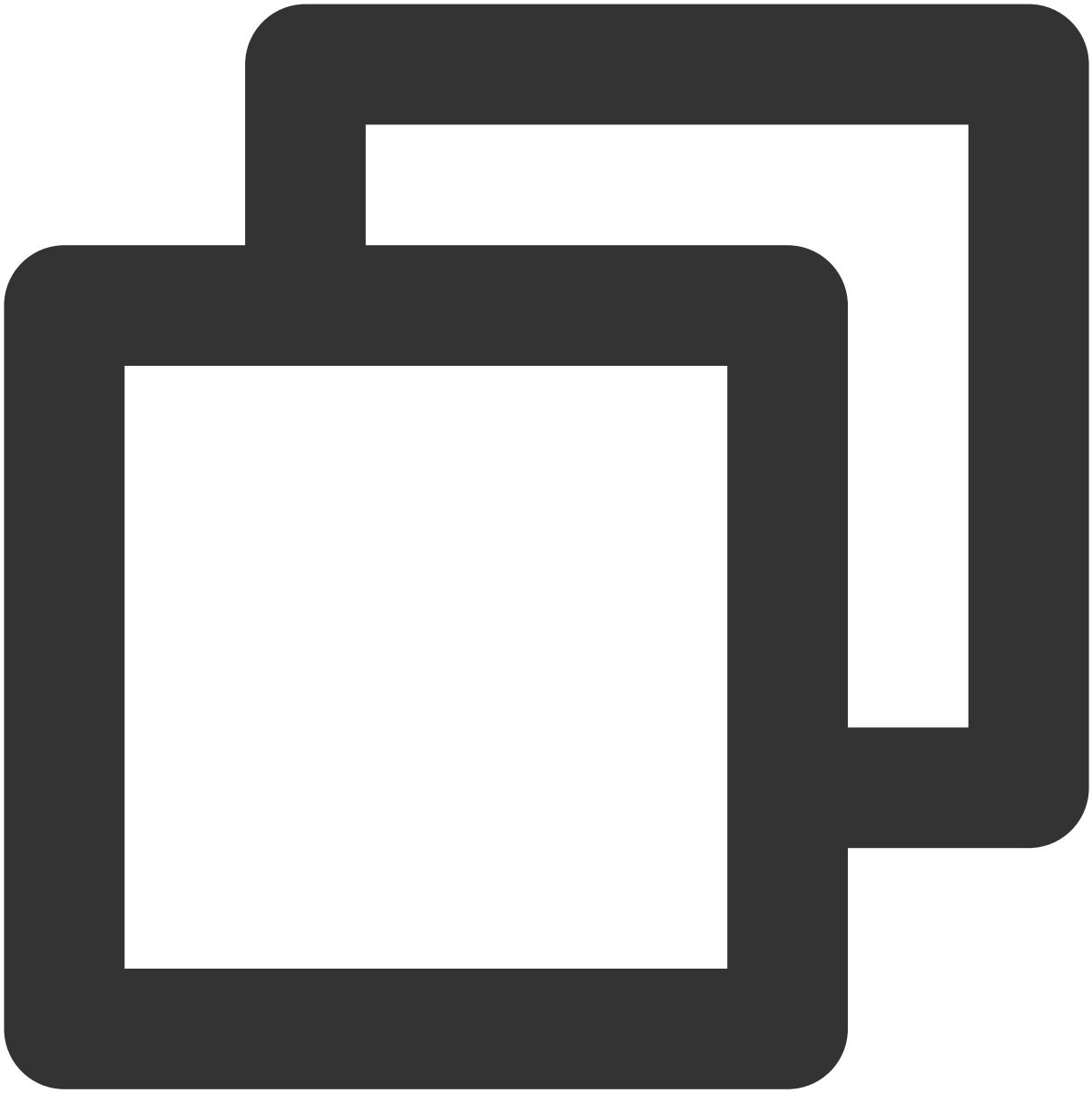
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```
func (s *CIService) GetTextAuditingJob(ctx context.Context, jobid string) (*GetText
```

Sample request

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```
// Replace examplebucket-1250000000 and COS_REGION with the actual information.
// For CI jobs, you need to provide the CIURL.
bu, _ := url.Parse("https://examplebucket-1250000000.cos.COS_REGION.myqcloud.com")
cu, _ := url.Parse("https://examplebucket-1250000000.ci.COS_REGION.myqcloud.com")
b := &cos.BaseURL{BucketURL: bu, CIURL: cu}
c := cos.NewClient(b, &http.Client{
    Transport: &cos.AuthorizationTransport{
        SecretID:  os.Getenv("SECRETID"),
        SecretKey: os.Getenv("SECRETKEY"),
    }
})
```

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```
jobId := "stce25f391a72e11eb99f********"
res, _, err := c.CI.GetTextAuditingJob(context.Background(), jobId)
```

Parameter description

Parameter	Description	Type
jobId	Job ID.	String

Response description

Calling the `GetTextAuditingJob` function will parse the XML content returned by the API into the `GetTextAuditingJobResult` structure. For specific response parameters, see Querying Text Moderation Job Result.

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AI-Based Content Recognition
Image QR Code

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for image QR codes.

API	Description
QR code recognition	Recognizes the location and content of valid QR codes in an image, outputs the text information (URL or text) contained in the QR codes, and pixelates the recognized QR codes.
QR code generation	Generates QR codes or barcodes based on the specified text information (URL or text).

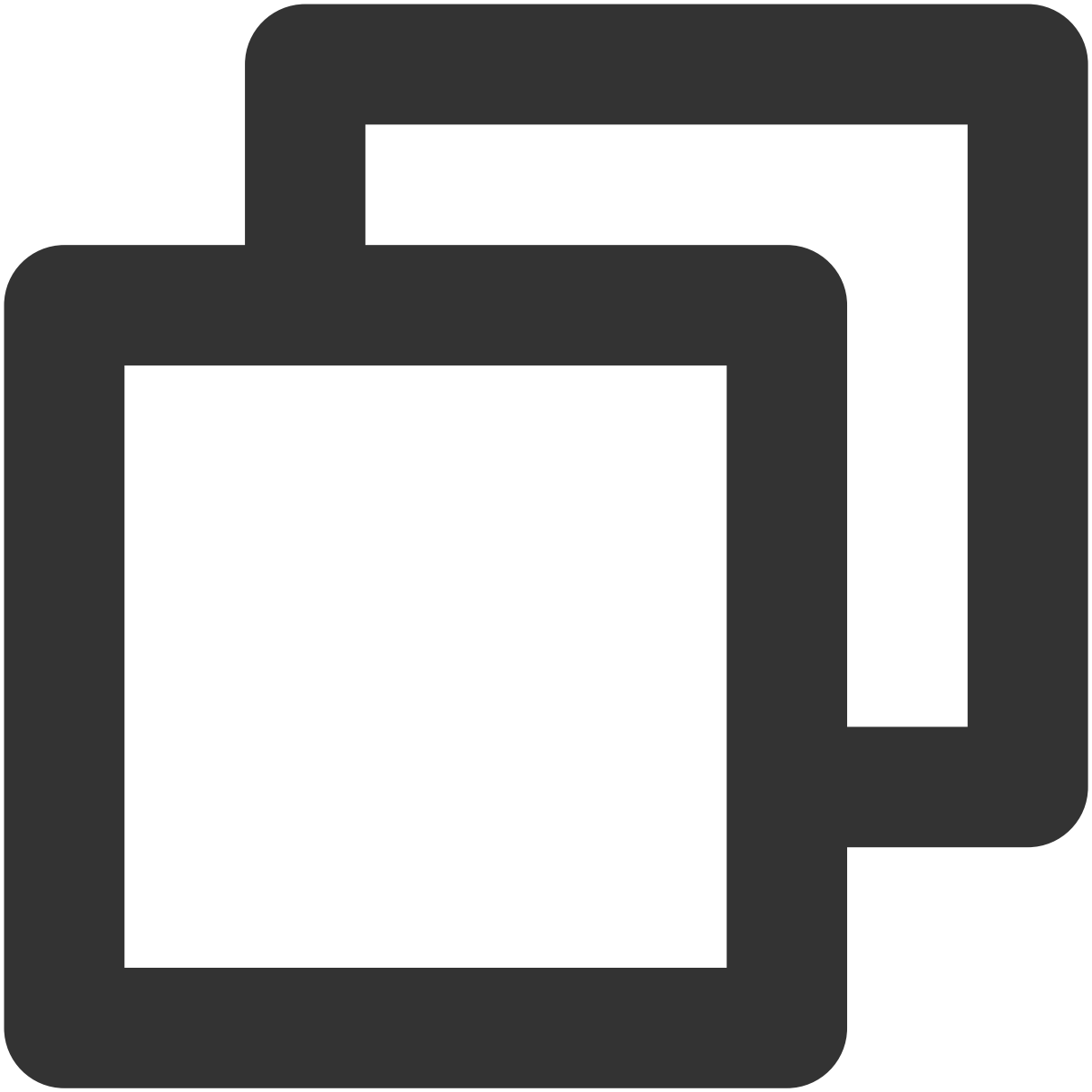
QR Code Recognition

Feature description

CI's QR code recognition feature recognizes the location and content of valid QR codes in an image, outputs the text information (URL or text) contained in the QR codes, and pixelates the recognized QR codes.

Method prototype

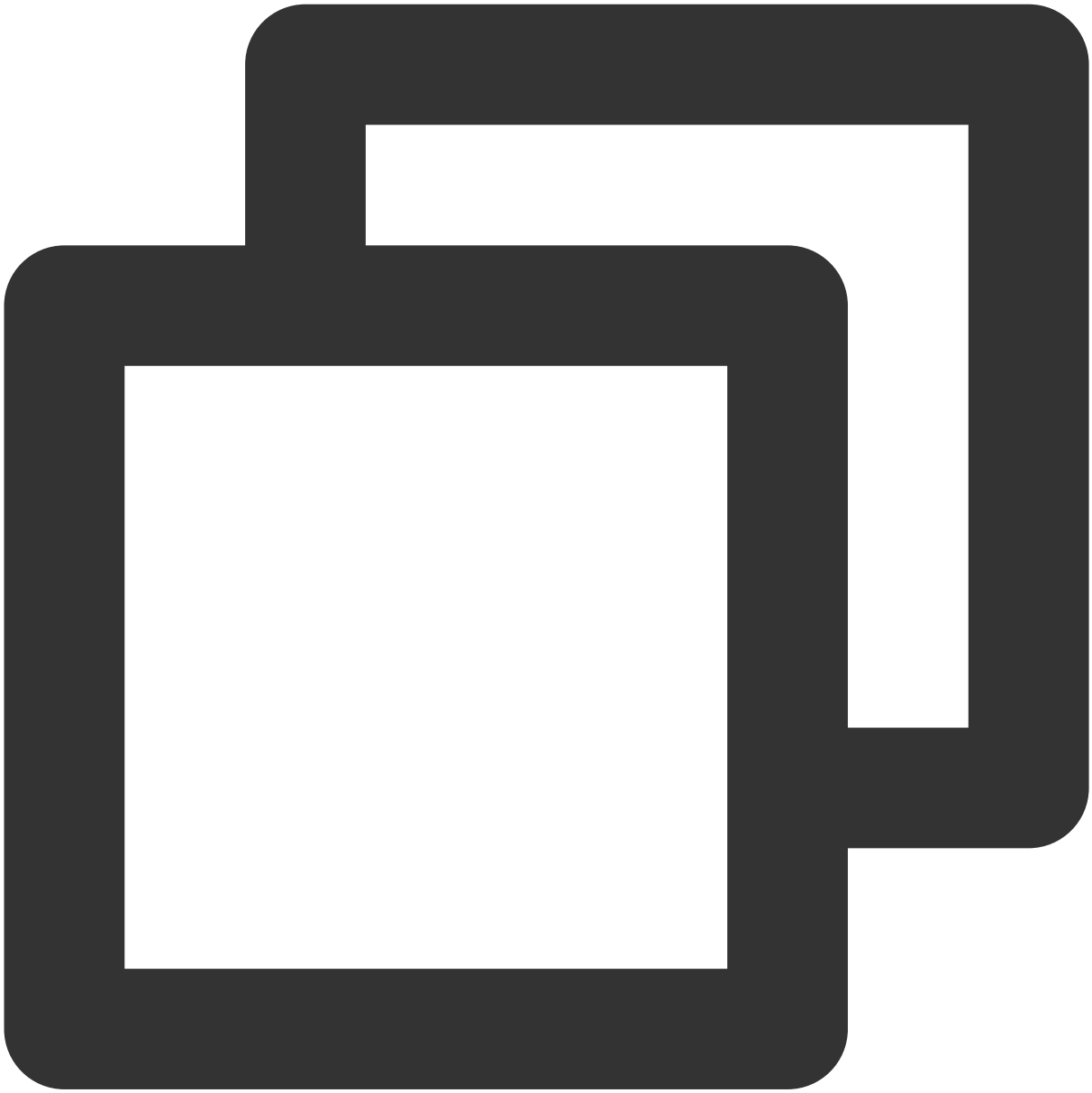
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```
func (s *CIService) GetQRcode(ctx context.Context, name string, cover int, opt *Obj
```

Sample request 1: Recognizing during upload

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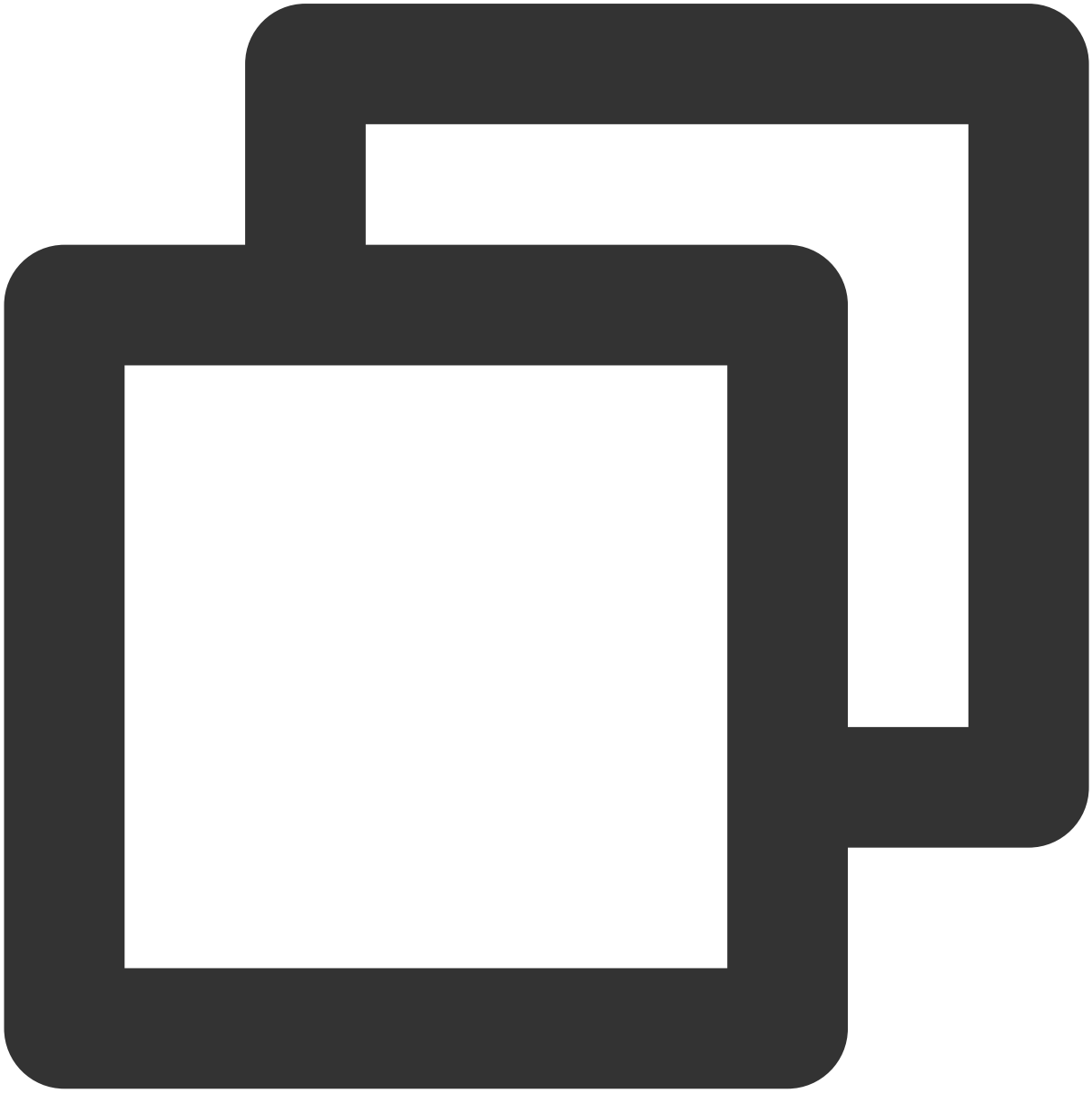


```
opt := &cos.ObjectPutOptions{
    nil,
    &cos.ObjectPutHeaderOptions{
        XOptionHeader: &http.Header{},
    },
}
pic := &cos.PicOperations{
    IsPicInfo: 1,
    Rules: []cos.PicOperationsRules{
        {
            FileId: "format.jpg",
```

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```
            Rule:   "QRcode/cover/1",
        },
    },
}
opt.XOptionHeader.Add("Pic-Operations", cos.EncodePicOperations(pic))
name := "test.jpg"
filepath := "./QRcode.jpg"
res, _, err := c.CI.PutFromFile(context.Background(), name, filepath, opt)
```

Sample request 2: Recognizing during download



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```
name := "test.jpg"
res, _, err := c.CI.GetQRcode(context.Background(), name, 1, nil)
```

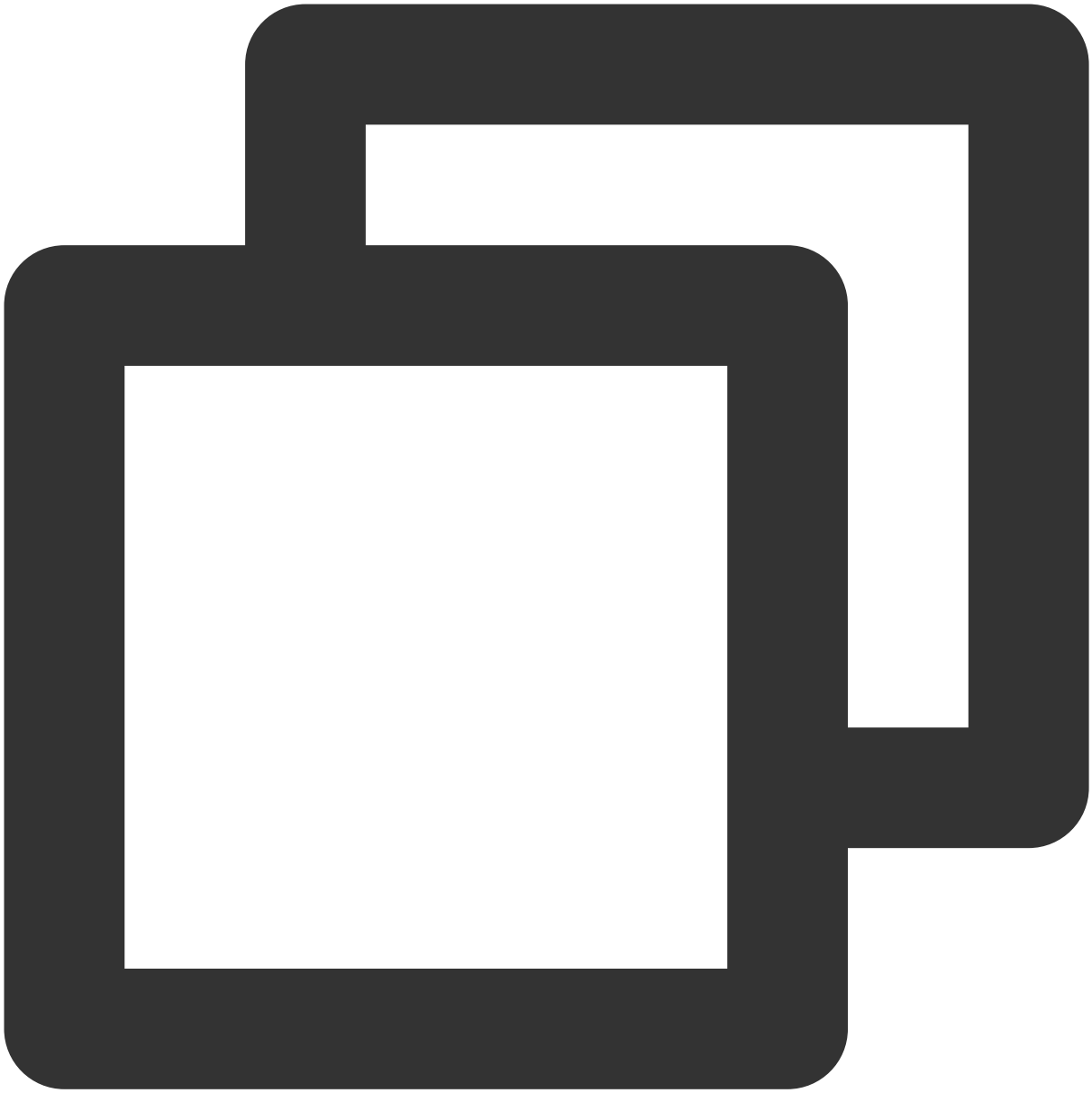
Parameter description

Parameter	Description	Type	Required
cover	Pixelates the recognized QR code. Valid values: `0` (no), `1` (yes). Default value: `0` .	int	Yes

Response description

The returned result of recognition during download is as follows:

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```
type GetQRcodeResult struct {
    CodeStatus  int
    QRcodeInfo  *QRcodeInfo
    ResultImage string
}
type QRcodeInfo struct {
    CodeUrl      string
    CodeLocation *CodeLocation
}
type CodeLocation struct {
    Point []string
```

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```
}
```

Parameter	Description	Type
CodeStatus	Whether QR codes are recognized. `0` : No; `1` : Yes.	int
QRcodeInfo	Recognized QR code. There may be multiple ones.	Struct
ResultImage	Base64-encoded image data, which is returned if the request parameter `cover` is 1.	string
CodeUrl	QR code content. Content may not be recognized.	string
CodeLocation	Location coordinates of the QR code recognized in the image.	Struct
Point	QR code coordinates (X,Y).	Array

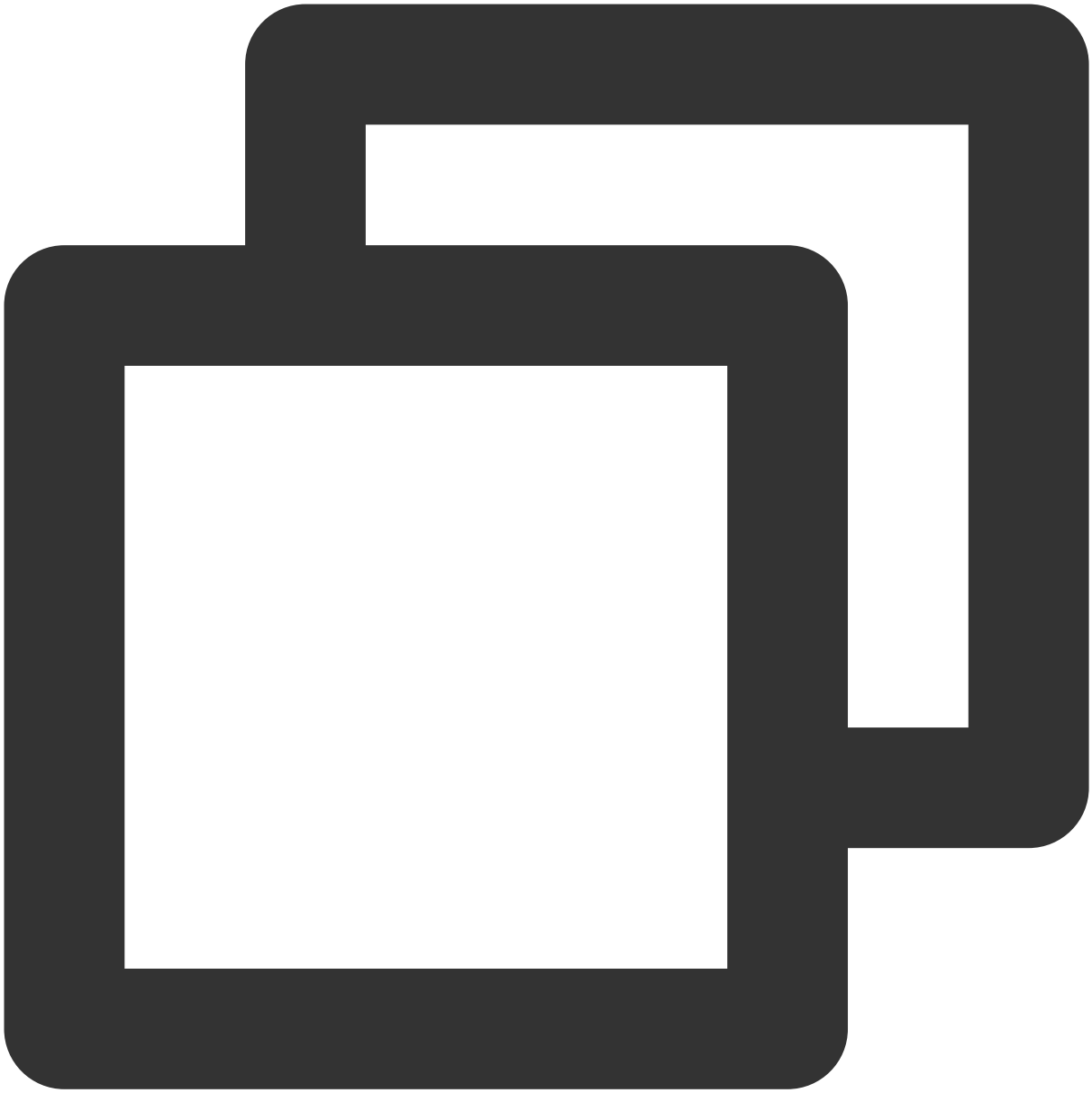
QR Code Generation

Feature description

CI's QR code generation feature generates QR codes or barcodes based on the specified text information (URL or text).

Method prototype

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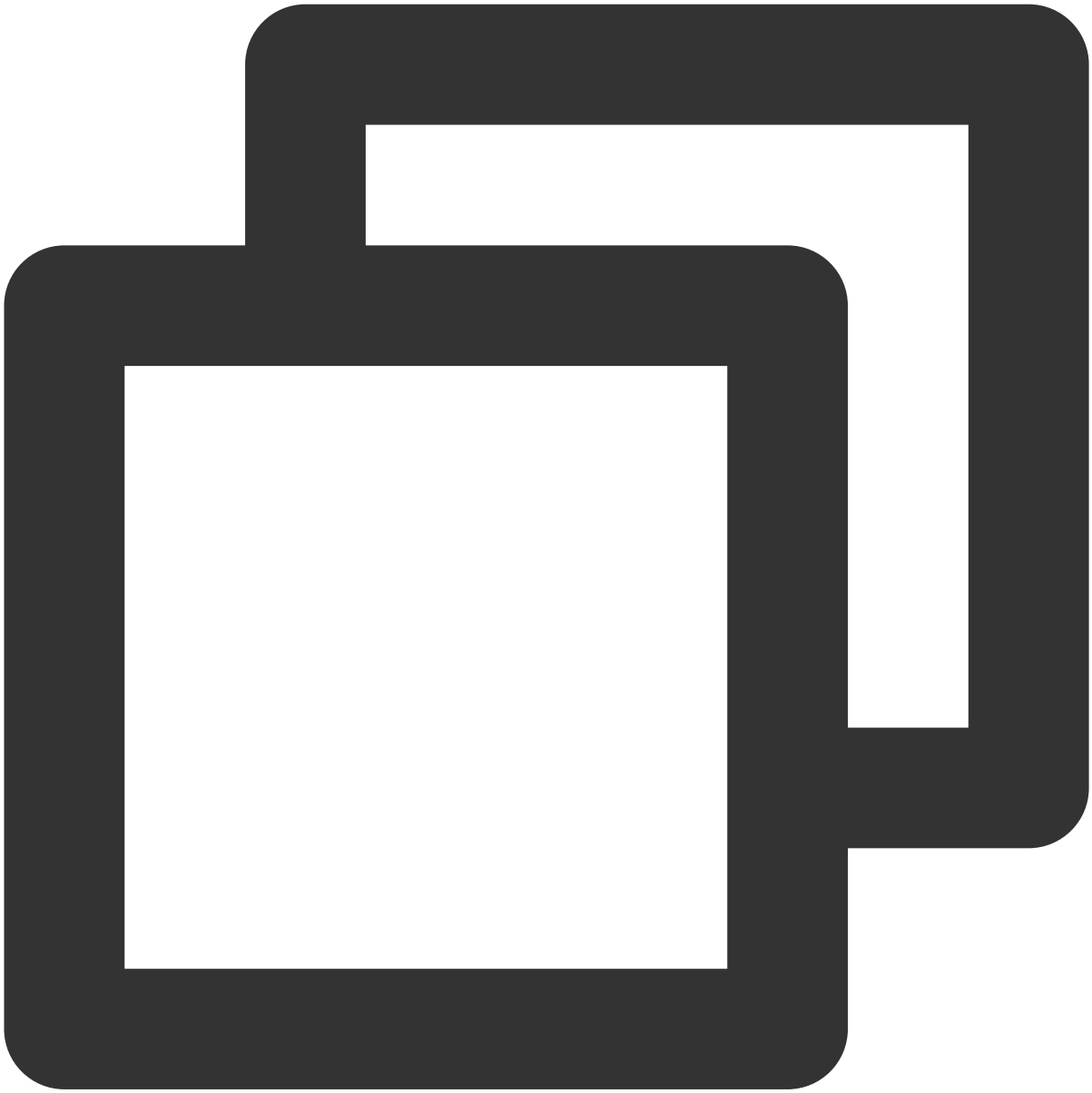


```
func (s *CIService) GenerateQRcode(ctx context.Context, opt *GenerateQRcodeOptions)

func (s *CIService) GenerateQRcodeToFile(ctx context.Context, filePath string, opt
```

Sample request

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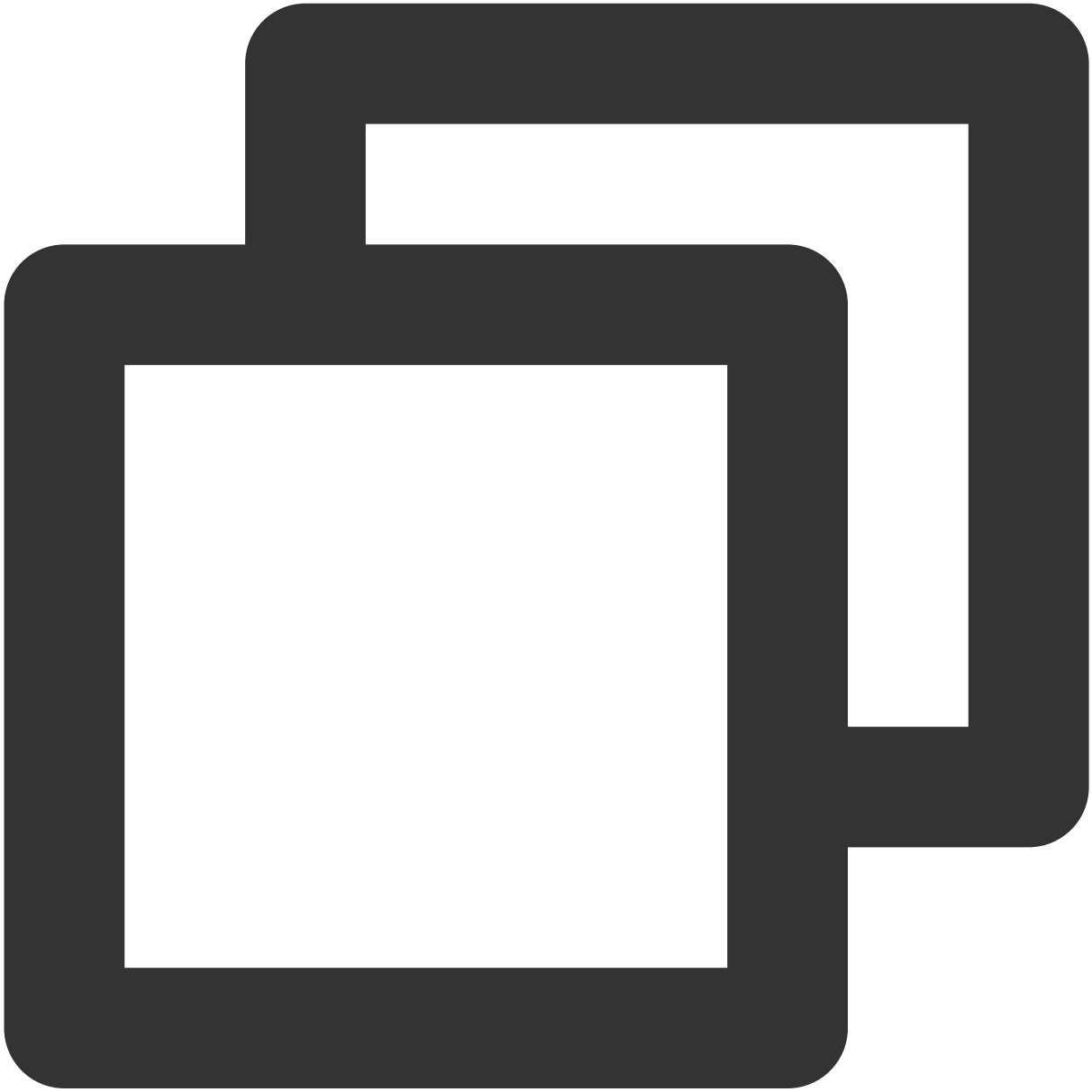


```
opt := &cos.GenerateQRcodeOptions{
    QRcodeContent: "<https://www.example.com>"
    Mode:          0,
    Width:         200,
}
// Case 1. Generate a QR code
res, _, err := c.CI.GenerateQRcode(context.Background(), opt)

// Case 2. Generate a QR code and save it as a file
filepath := "example.jpg"
res, _, err := c.CI.GenerateQRcodeToFile(context.Background(), filepath, opt)
```

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Parameter description



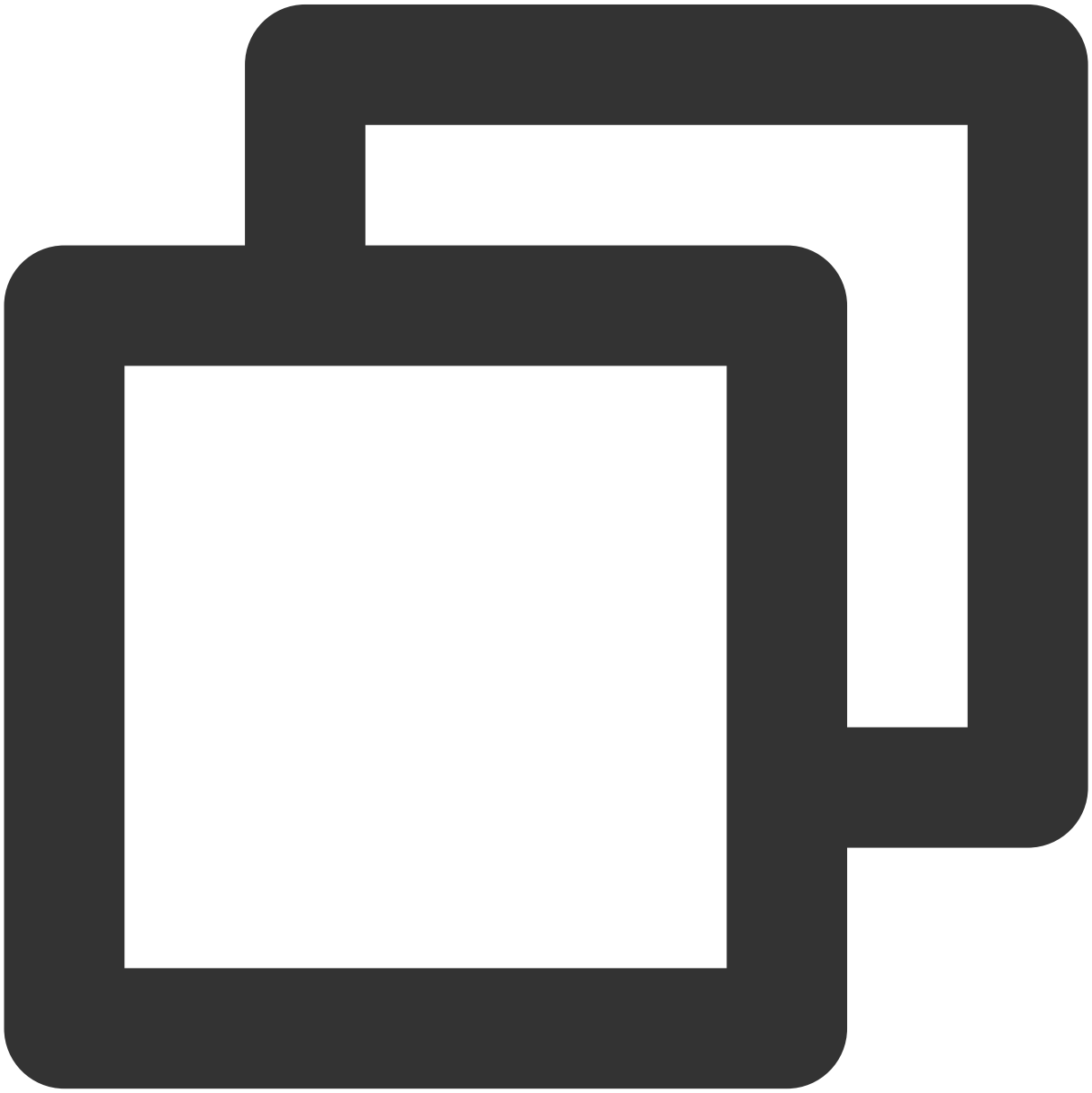
```
type GenerateQRcodeOptions struct {
    QRcodeContent string
    Mode          int
    Width         int
}
```

Parameter	Description	Type

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QRcodeContent	Recognizable QR code text information	string
Mode	Type of the QR code to be generated. Valid values: `0` (QR code), `1` (barcode). Default value: `0`.	int
Width	Width of the QR code or barcode to be generated. The height will be compressed proportionally.	int

Response description



```
type GenerateQRcodeResult struct {
```

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```
    ResultImage string
}
```

Parameter	Description	Type
ResultImage	Base64-encoded QR code image data	string

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File Processing
File Decompression

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for file decompression in CI.

API	Description
Submitting a file decompression job	Submits a file decompression job.
Querying the file decompression result	Queries the result of a specified file decompression job.

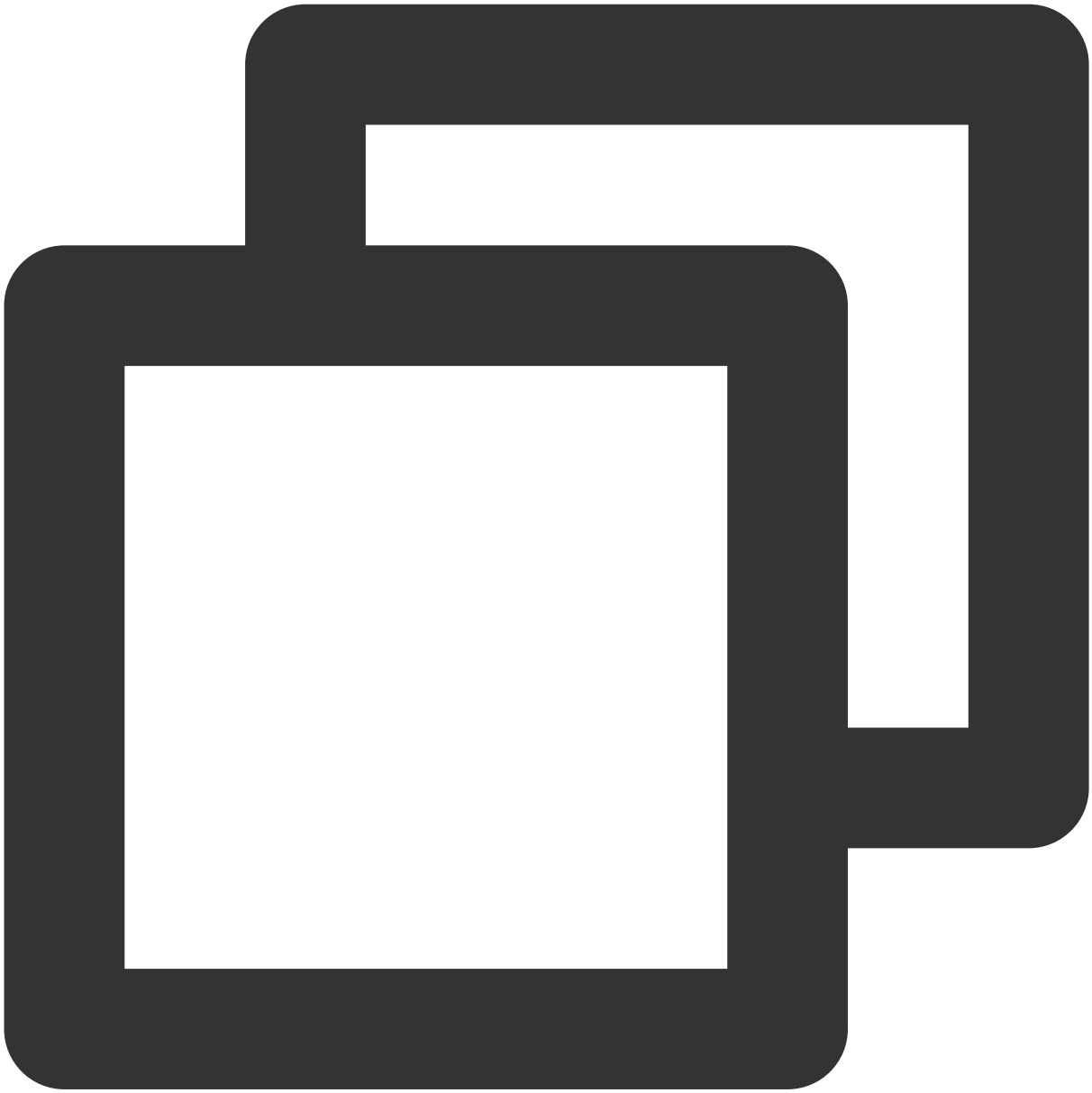
Submitting a File Decompression Job

Feature description

This API is used to submit a job to perform file decompression and asynchronously return decompressed files.

Method prototype

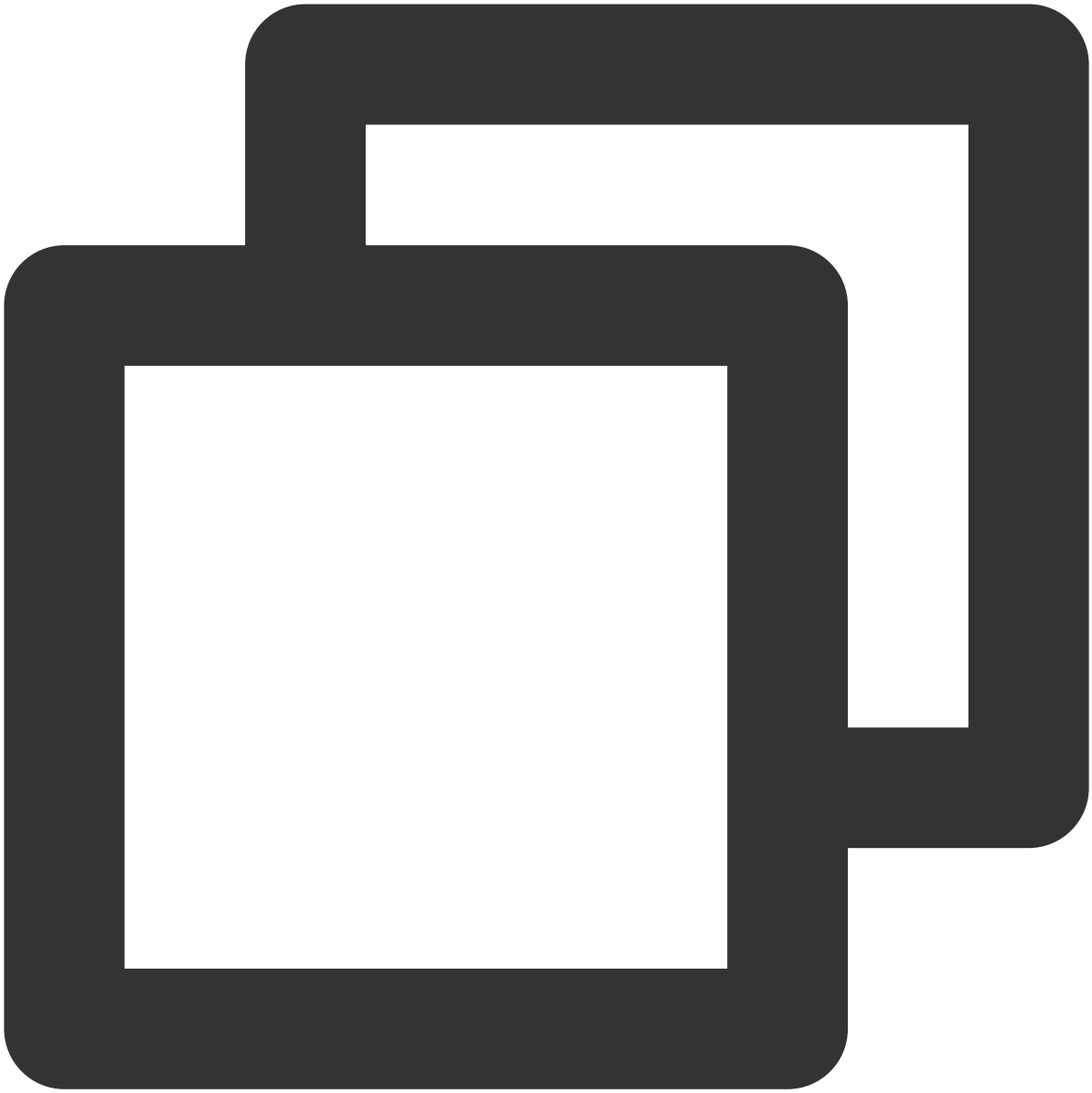
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```
func (s *CIService) CreateFileProcessJob(ctx context.Context, opt *FileProcessJobOp
```

Sample request

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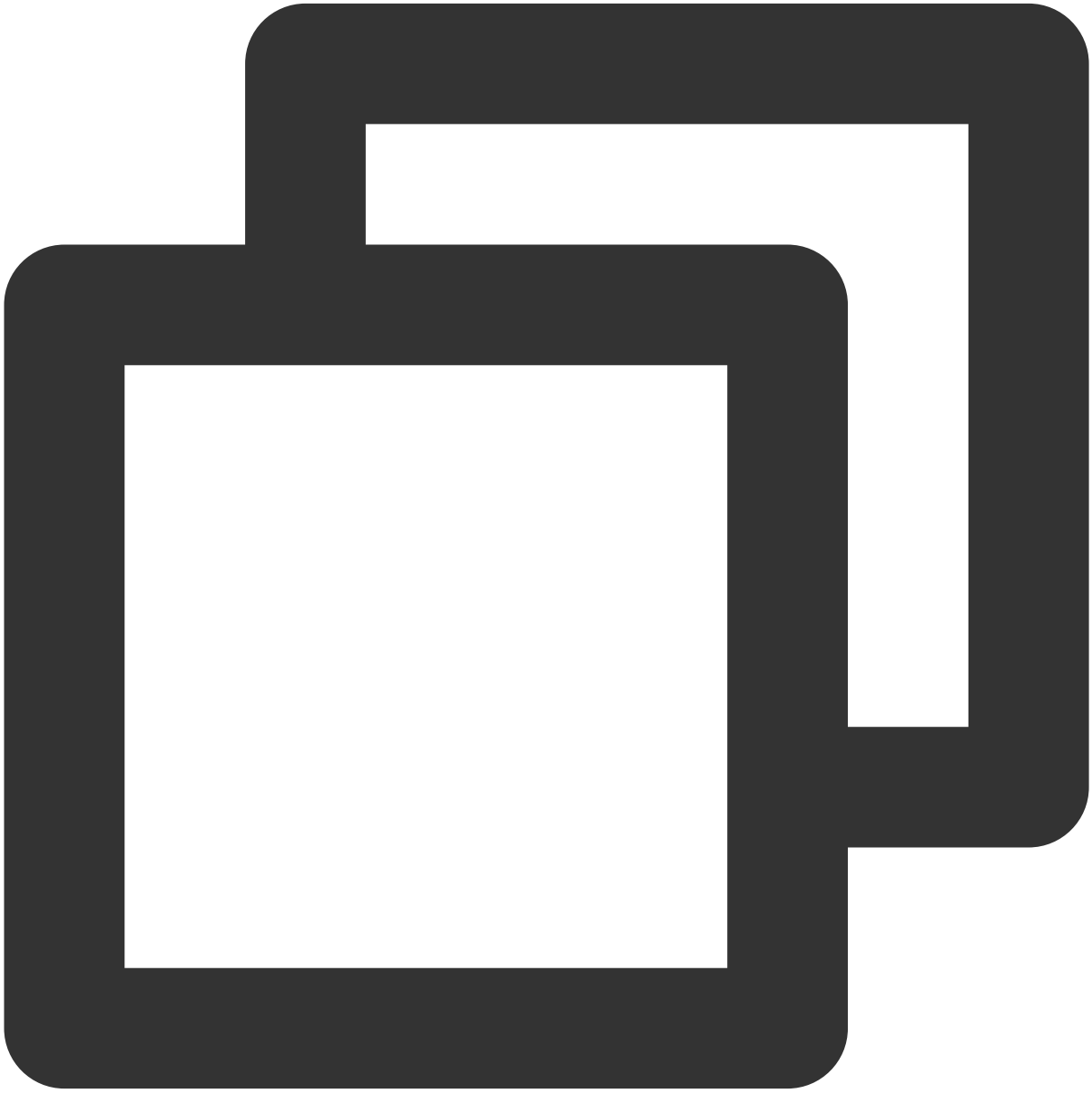


```
createJobOpt := &cos.FileProcessJobOptions{
    Tag: "FileUncompress",
    Input: &cos.FileProcessInput{
        Object: "294028.zip",
    },
    Operation: &cos.FileProcessJobOperation{
        FileUncompressConfig: &cos.FileUncompressConfig{
            Prefix:         "uncomp",
            PrefixReplaced: "1",
        },
        Output: &cos.FileProcessOutput{
```

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```
            Region: "ap-beijing",
            Bucket: "test-1250000000",
        }
    },
    QueueId: "p111a8dd208104ce3b11c78398f658ca8",
}
res, _, err := c.CI.CreateFileProcessJob(context.Background(), createJobOpt)
```

Parameter description



```
type FileProcessJobOptions struct {
```

```
    XMLName          xml.Name
    Tag              string
    Input            *FileProcessInput
    Operation        *FileProcessJobOperation
    QueueId          string
    CallBackFormat   string
    CallBackType     string
    CallBack         string
    CallBackMqConfig *NotifyConfigCallBackMqConfig
}
type FileProcessInput struct {
    Region     string
    Bucket     string
    Object           string
}
type FileProcessJobOperation struct {
    FileHashCodeConfig   *FileHashCodeConfig
    FileHashCodeResult   *FileHashCodeResult
    FileUncompressConfig *FileUncompressConfig
    FileUncompressResult *FileUncompressResult
    FileCompressConfig   *FileCompressConfig
    FileCompressResult   *FileCompressResult
    Output               *FileProcessOutput
    UserData             string
}
type FileHashCodeConfig struct {
    Type        string
    AddToHeader bool
}
type FileHashCodeResult struct {
    MD5          string
    SHA1         string
    SHA256       string
    FileSize     int
    LastModified string
    Etag         string
}
type FileUncompressConfig struct {
    Prefix         string
    PrefixReplaced string
}
type FileUncompressResult struct {
    Region    string
    Bucket    string
    FileCount string
}
type FileCompressConfig struct {
```

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```
    Flatten string
    Format  string
    UrlList string
    Prefix  string
    Key     string
}
type FileCompressResult struct {
    Region     string
    Bucket     string
    Object           string
}
type FileProcessOutput struct {
    Region     string
    Bucket     string
    Object           string
}
type NotifyConfigCallBackMqConfig struct {
    MqMode   string
    MqRegion string
    MqName   string
}
```

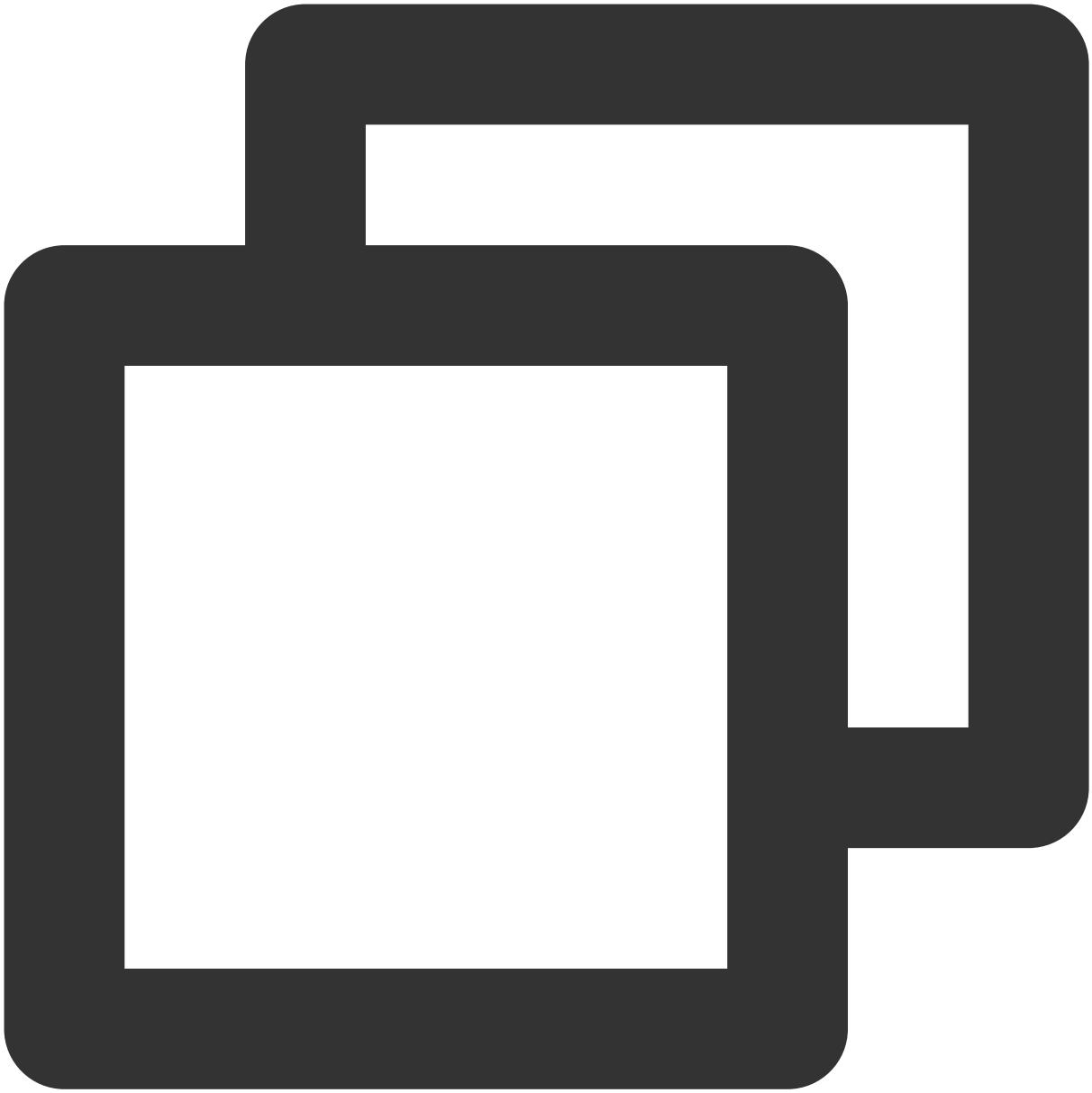
Parameter	Description	Type	Required
Tag	Job type, which currently can only be `FileUncompress`.	String	Yes
Input	The object to be processed. For more information, see Submitting Hash Calculation Job.	Container	Yes
Operation	Operation rule	Container	Yes
Operation.FileUncompressConfig	File decompression rule. For more information, see Submitting File Decompression Job.	Container	Yes
Operation.FileUncompressResult	File decompression result, which will not be returned when the job is not completed. For more information, see Submitting File Decompression Job.	Container	No
Operation.Output	Address where the output file is stored. For more information, see Submitting Multi-File Zipping Job.	Container	Yes
Operation.UserData	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No

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QueueId	ID of the queue where the job is in.	String	Yes
CallBackFormat	Job callback format, which can be `JSON` or `XML` (default). It takes priority over that of the queue.	String	No
CallBackType	Job callback type, which can be `Url` (default) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Job callback address. It takes priority over that of the queue.	String	No
CallBackMqConfig	TDMQ configuration for job callback as described in Structure, which is required if `CallBackType` is `TDMQ`.	Container	No

Response description

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```
type FileProcessJobResult struct {
    JobsDetail FileProcessJobResult
}
type FileProcessJobResult struct {
    Code         string
    Message      string
    JobId        string
    Tag          string
    State        string
    CreationTime string
    StartTime    string
```

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```
    EndTime      string
    QueueId      string
    Input        *FileProcessInput
    Operation    *FileProcessJobOperation
}
```

Parameter	Description	Type
JobsDetail	Job details	Container
Code	Error code, which will be returned only if `State` is `Failed`.	String
Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Job ID	String
Tag	Job tag: FileUncompress	String
State	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Job creation time	String
StartTime	Job start time	String
EndTime	Job end time	String
QueueId	ID of the queue where the job is in	String
Input	Path of the input file for this job. For more information, see `FileProcessJobOptions.Input`.	Container
Operation	Operation rule. For more information, see `FileProcessJobOptions.Operation`.	Container

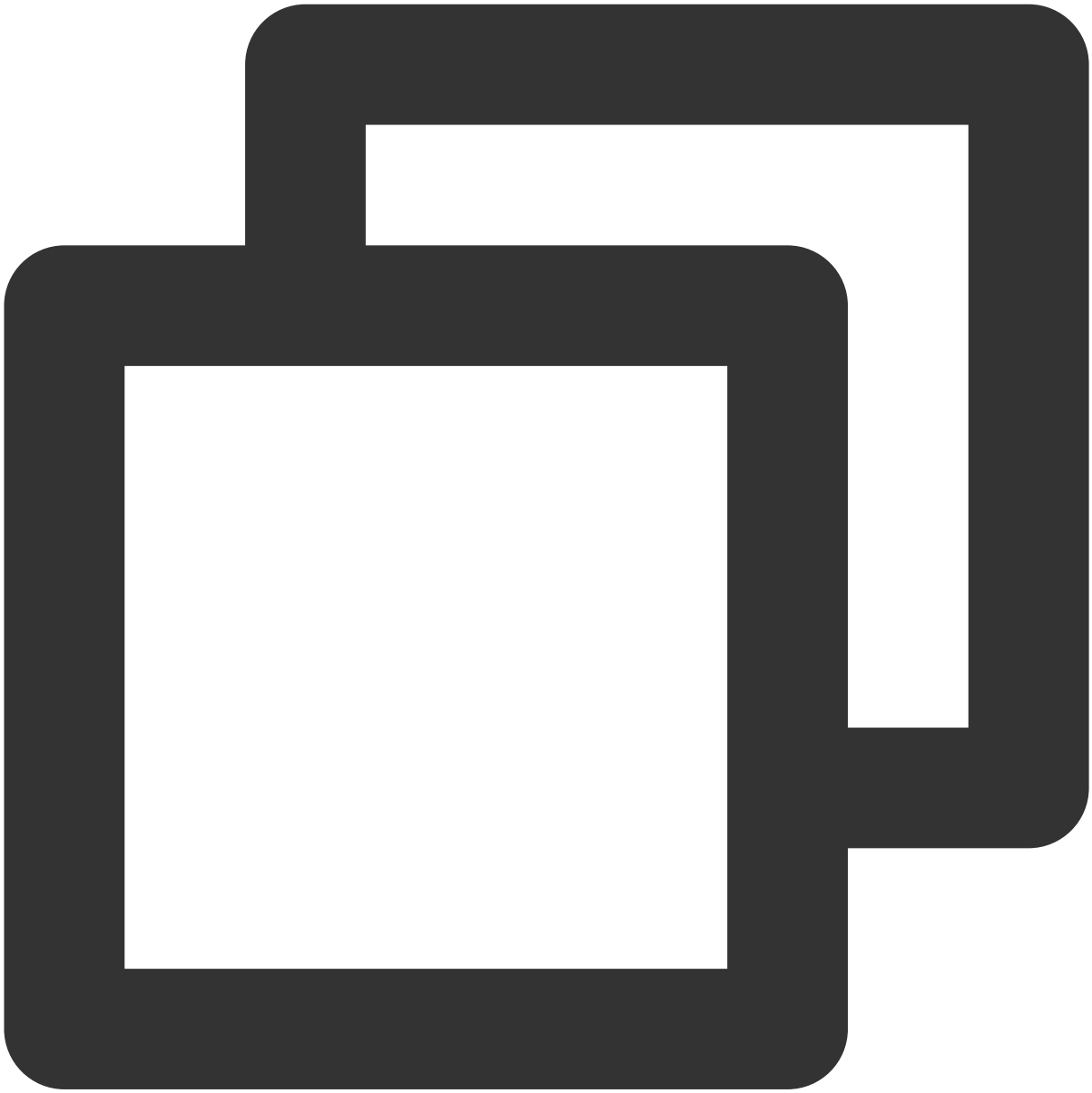
Querying File Decompression Result

Feature description

This API is used to query the details of a file processing job by job ID.

Method prototype

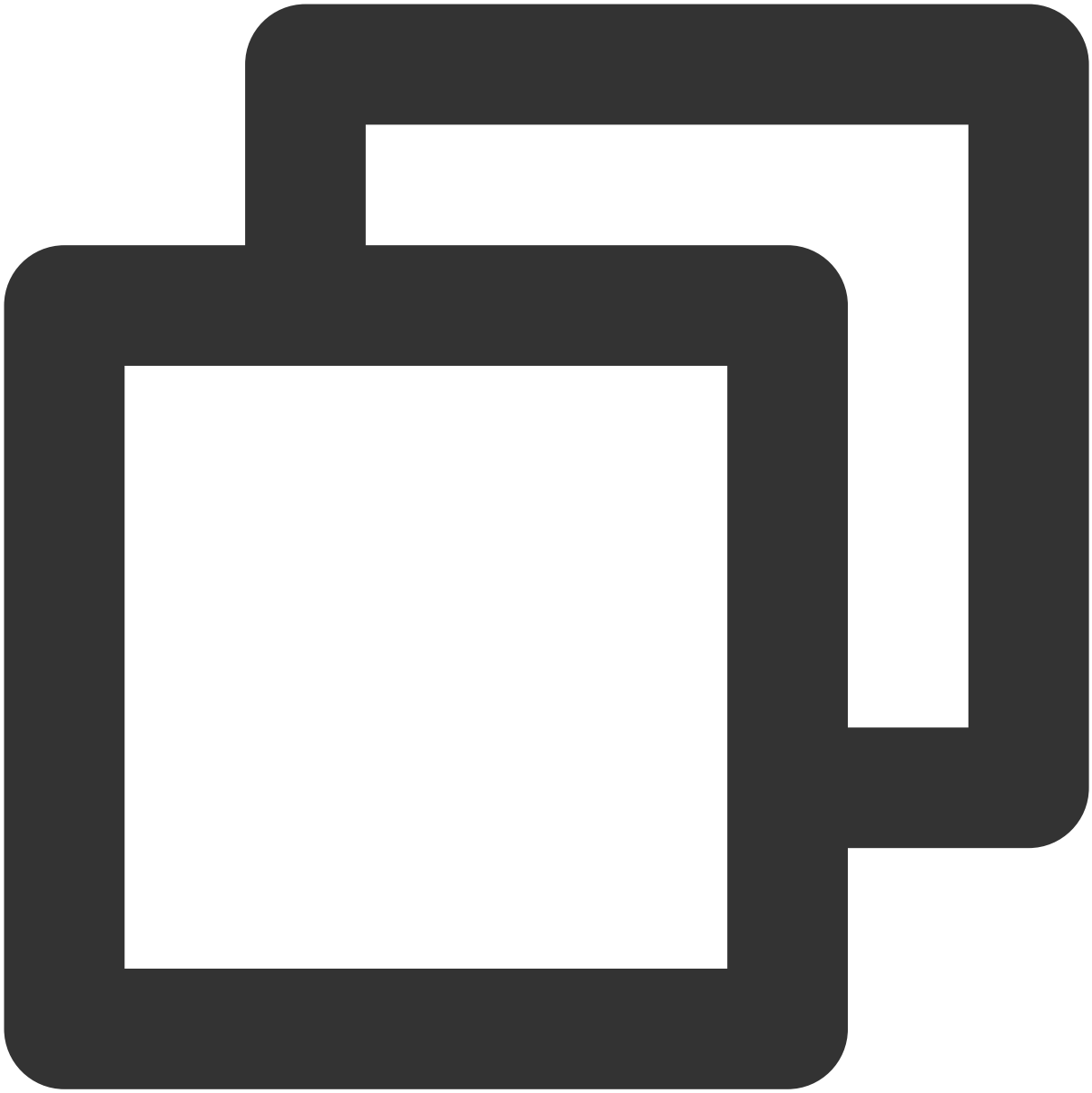
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```
func (s *CIService) DescribeFileProcessJob(ctx context.Context, jobid string) (*Fil
```

Sample request

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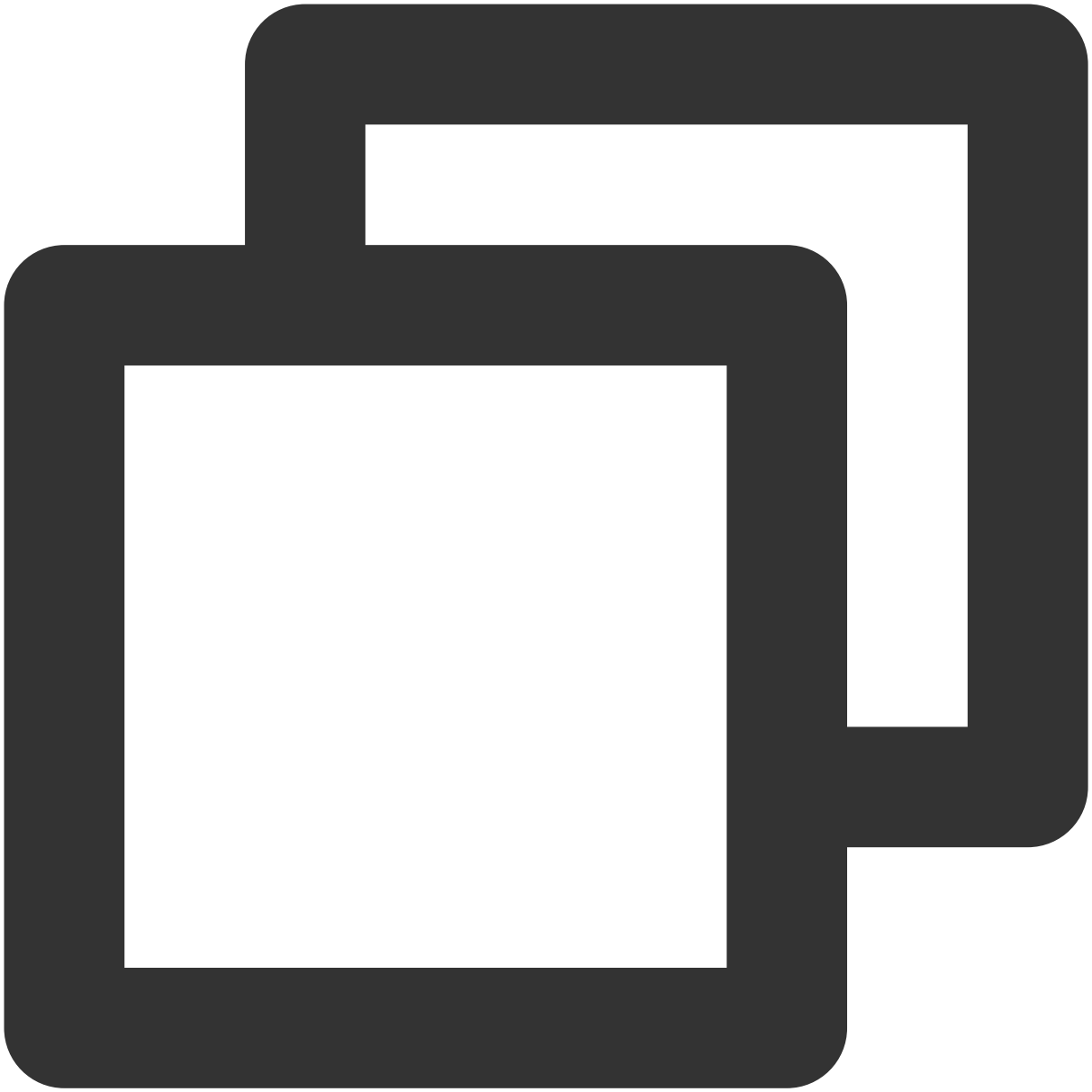
```
jobid := "<jobid>"
res, _, err := c.CI.DescribeFileProcessJob(context.Background(), jobid)
```

Parameter description

Parameter	Description	Type	Required
jobid	File processing job ID	String	Yes

Response description

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```
type FileProcessJobResult struct {
    JobsDetail *FileProcessJobsDetail
}
```

Parameter	Description	Type
JobsDetail	Job details, which is the same as `Response.JobsDetail` in the `CreateFileProcessJob` API.	Container

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Multi-File Zipping

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for file compression in CI.

API	Description
Submitting a multi-file zipping job	Submits a multi-file zipping job.
Querying the multi-file zipping result	Queries the result of a specified multi-file zipping job.

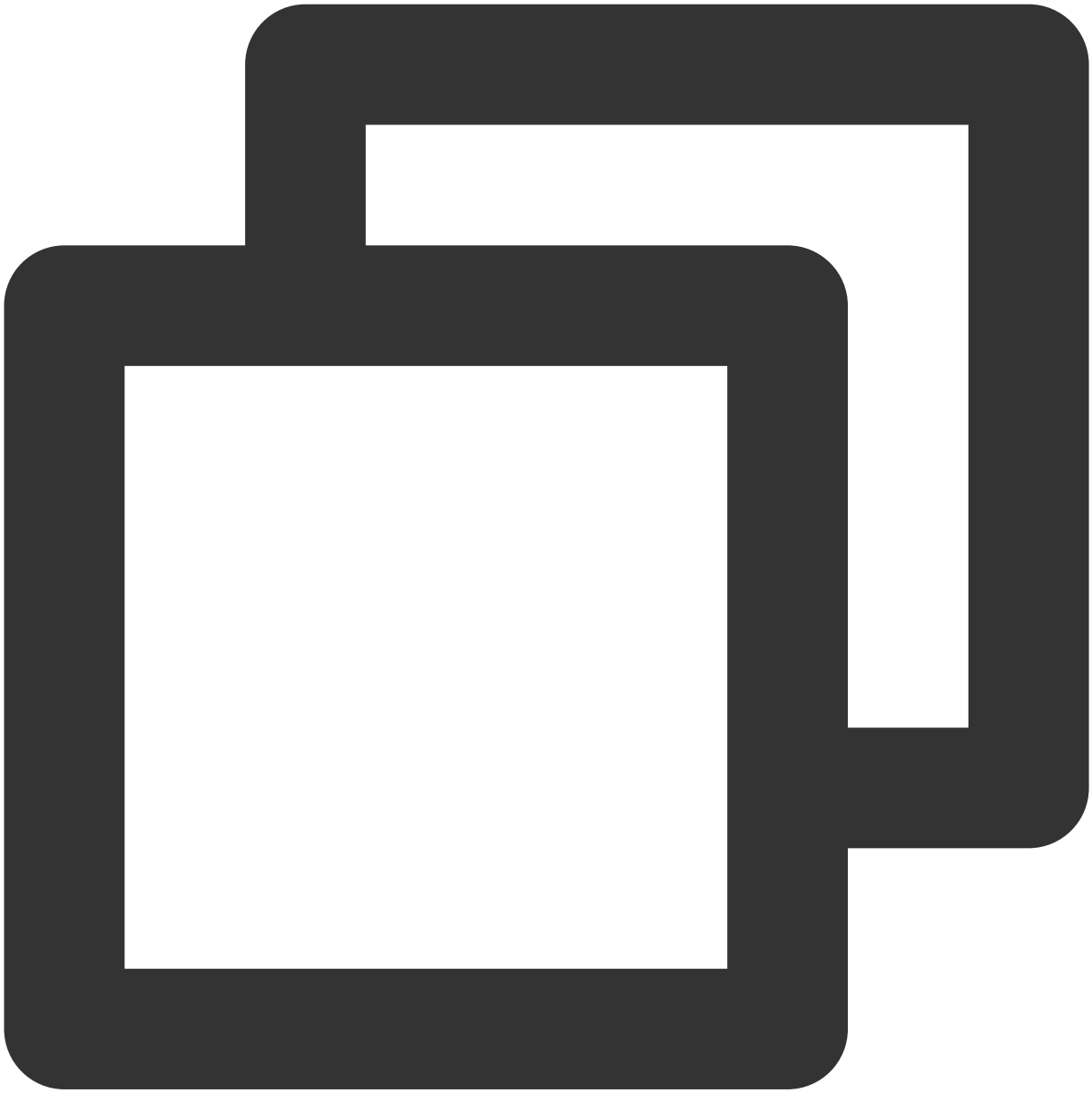
Submitting a Multi-File Zipping Job

Feature description

The multi-file zipping feature uses a 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.

Method prototype

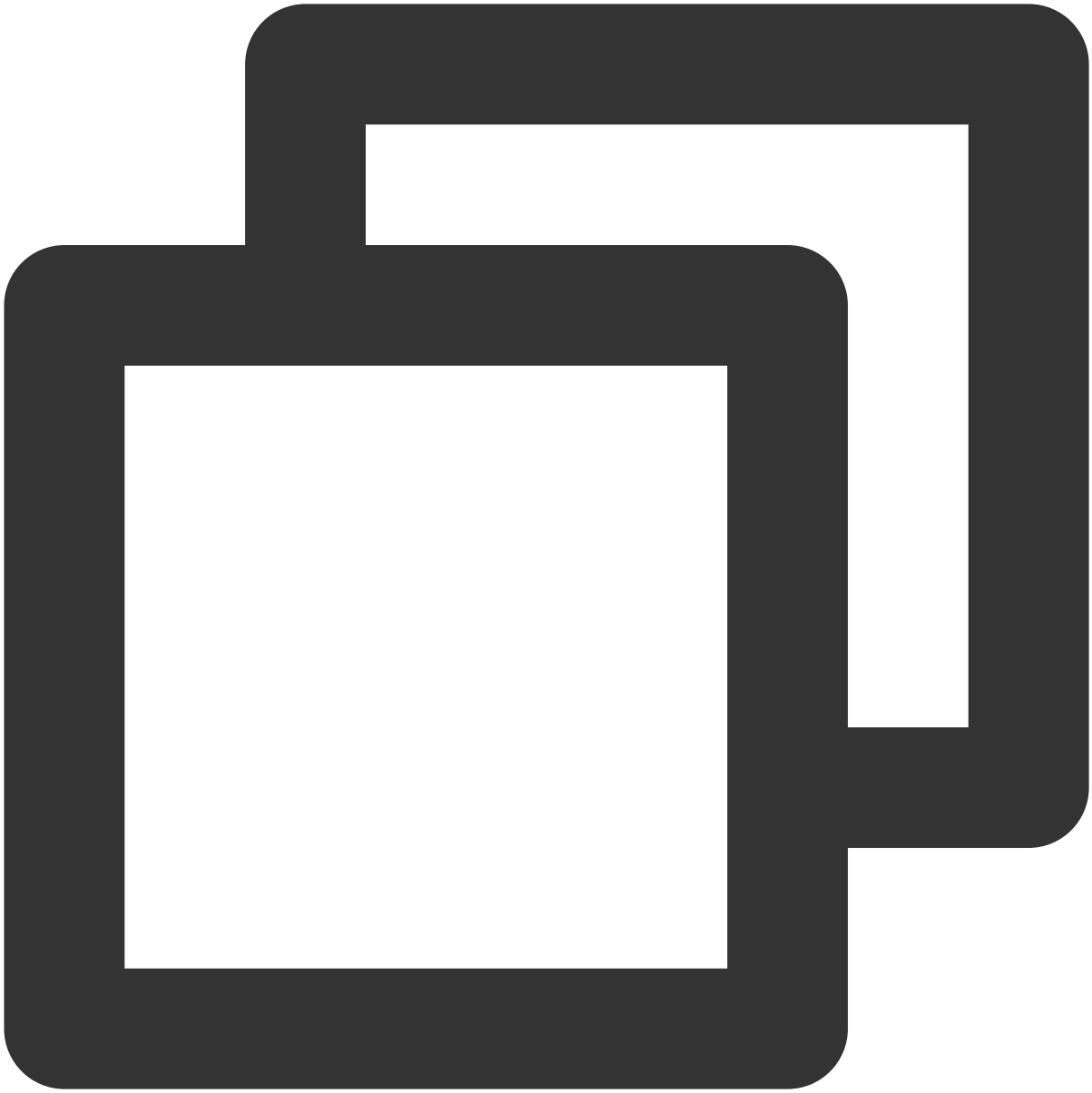
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```
func (s *CIService) CreateFileProcessJob(ctx context.Context, opt *FileProcessJobOp
```

Sample request

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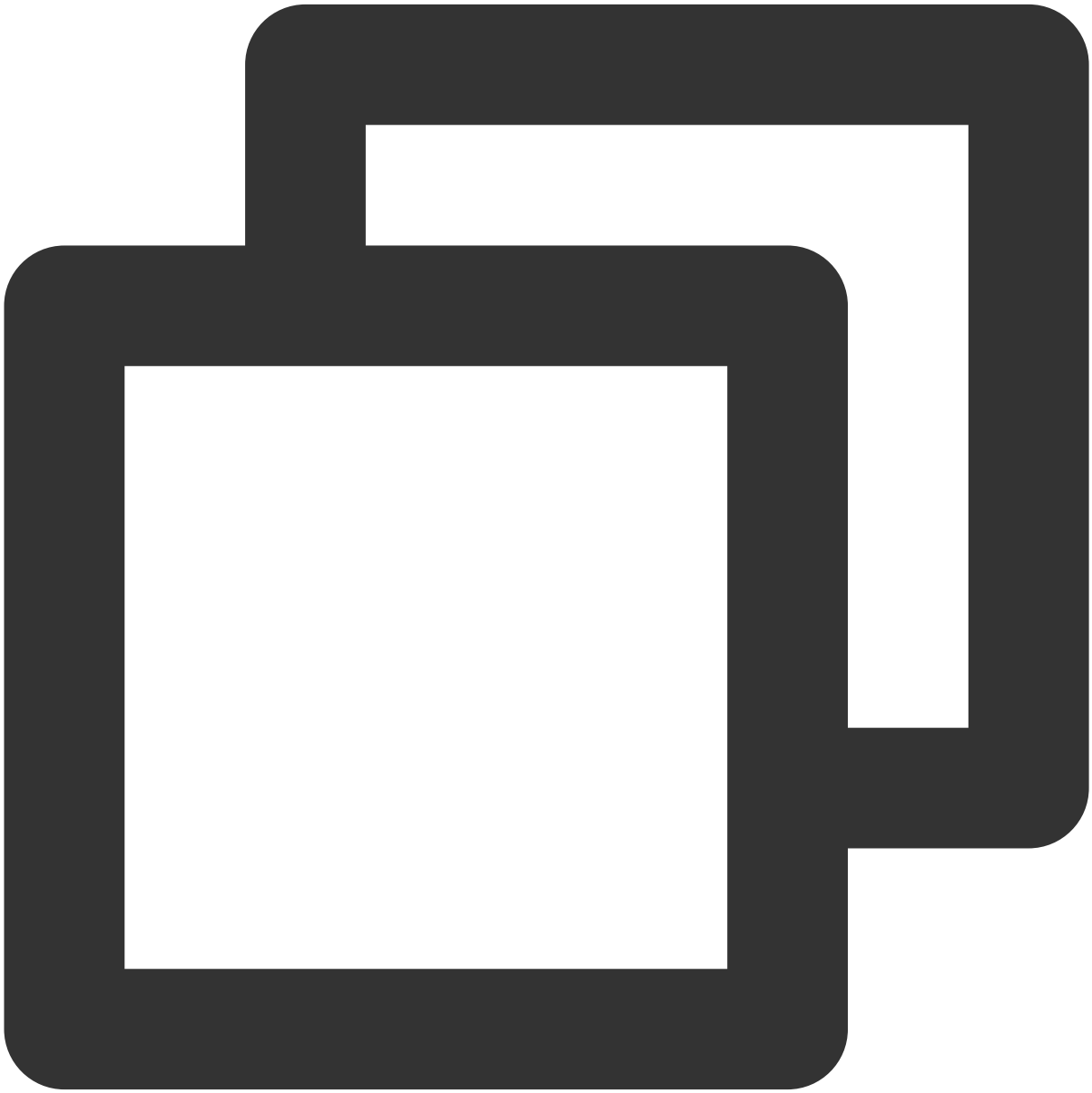


```
createJobOpt := &cos.FileProcessJobOptions{
    Tag: "FileCompress",
    Operation: &cos.FileProcessJobOperation{
        FileCompressConfig: &cos.FileCompressConfig{
            Format:  "zip",
            Flatten: "0",
            Key:     []string{"1.mp3", "2.jpg"},
        },
        Output: &cos.FileProcessOutput{
            Region: "ap-shanghai",
            Bucket: "test-1250000000",
```

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```
            Object: "vvvvxxxzz.zip",
        },
    },
    QueueId: "p111a8dd208104ce3b11c78398f658ca8",
}
res, _, err := c.CI.CreateFileProcessJob(context.Background(), createJobOpt)
```

Parameter description



```
type FileProcessJobOptions struct {
    XMLName          xml.Name
```

```
    Tag              string
    Input            *FileProcessInput
    Operation        *FileProcessJobOperation
    QueueId          string
    CallBackFormat   string
    CallBackType     string
    CallBack         string
    CallBackMqConfig *NotifyConfigCallBackMqConfig
}
type FileProcessInput struct {
    Region     string
    Bucket     string
    Object           string
}
type FileProcessJobOperation struct {
    FileHashCodeConfig   *FileHashCodeConfig
    FileHashCodeResult   *FileHashCodeResult
    FileUncompressConfig *FileUncompressConfig
    FileUncompressResult *FileUncompressResult
    FileCompressConfig   *FileCompressConfig
    FileCompressResult   *FileCompressResult
    Output               *FileProcessOutput
    UserData             string
}
type FileHashCodeConfig struct {
    Type        string
    AddToHeader bool
}
type FileHashCodeResult struct {
    MD5          string
    SHA1         string
    SHA256       string
    FileSize     int
    LastModified string
    Etag         string
}
type FileUncompressConfig struct {
    Prefix         string
    PrefixReplaced string
}
type FileUncompressResult struct {
    Region    string
    Bucket    string
    FileCount string
}
type FileCompressConfig struct {
    Flatten string
```

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```
    Format  string
    UrlList string
    Prefix  string
    Key     []string
}
type FileCompressResult struct {
    Region     string
    Bucket     string
    Object           string
}
type FileProcessOutput struct {
    Region     string
    Bucket     string
    Object           string
}
type NotifyConfigCallBackMqConfig struct {
    MqMode   string
    MqRegion string
    MqName   string
}
```

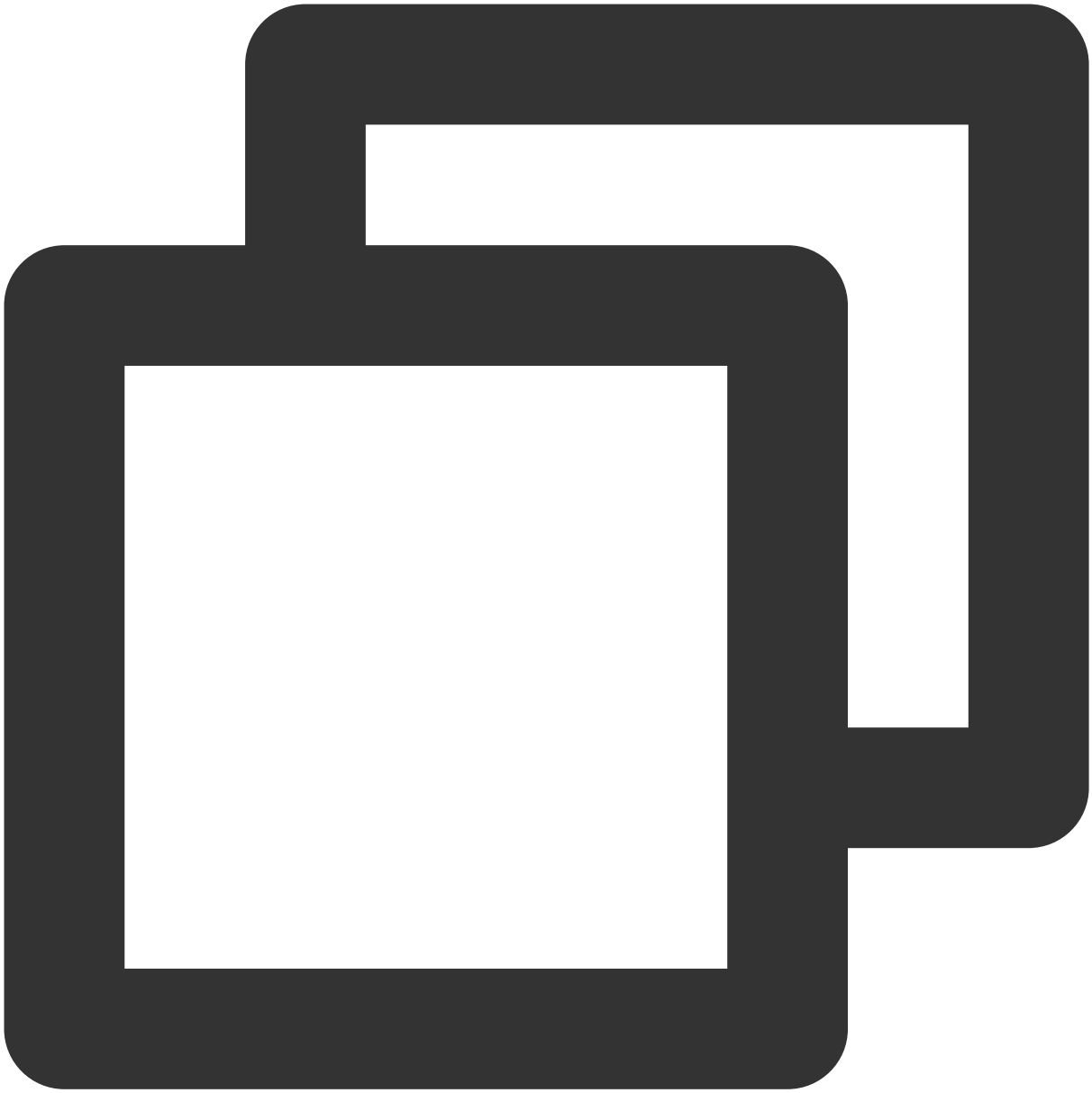
Parameter	Description	Type	Required
Tag	Job type, which currently can only be `FileCompress`.	String	Yes
Input	The object to be processed. For more information, see Submitting Hash Calculation Job.	Container	Yes
Operation	Operation rule	Container	Yes
Operation.FileCompressConfig	File zipping rule. For more information, see Submitting Multi-File Zipping Job.	Container	Yes
Operation.FileCompressResult	Multi-file zipping result, which will not be returned when the job is not completed. For more information, see Submitting Multi-File Zipping Job.	Container	No
Operation.Output	Address where the output file is stored. For more information, see Submitting Multi-File Zipping Job.	Container	Yes
Operation.UserData	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No

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QueueId	ID of the queue where the job is in.	String	Yes
CallBackFormat	Job callback format, which can be `JSON` or `XML` (default). It takes priority over that of the queue.	String	No
CallBackType	Job callback type, which can be `Url` (default) or `TDMQ` . It takes priority over that of the queue.	String	No
CallBack	Job callback address. It takes priority over that of the queue.	String	No
CallBackMqConfig	TDMQ configuration for job callback as described in Structure, which is required if `CallBackType` is `TDMQ` .	Container	No

Response description

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```
type FileProcessJobResult struct {
    JobsDetail FileProcessJobResult
}
type FileProcessJobResult struct {
    Code         string
    Message      string
    JobId        string
    Tag          string
    State        string
    CreationTime string
    StartTime    string
```

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```
    EndTime      string
    QueueId      string
    Input        *FileProcessInput
    Operation    *FileProcessJobOperation
}
```

Parameter	Description	Type
JobsDetail	Job details	Container
Code	Error code, which will be returned only if `State` is `Failed`.	String
Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Job ID	String
Tag	Job tag: FileCompress	String
State	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Job creation time	String
StartTime	Job start time	String
EndTime	Job end time	String
QueueId	ID of the queue where the job is in	String
Input	Path of the input file for this job. For more information, see `FileProcessJobOptions.Input`.	Container
Operation	Operation rule. For more information, see `FileProcessJobOptions.Operation`.	Container

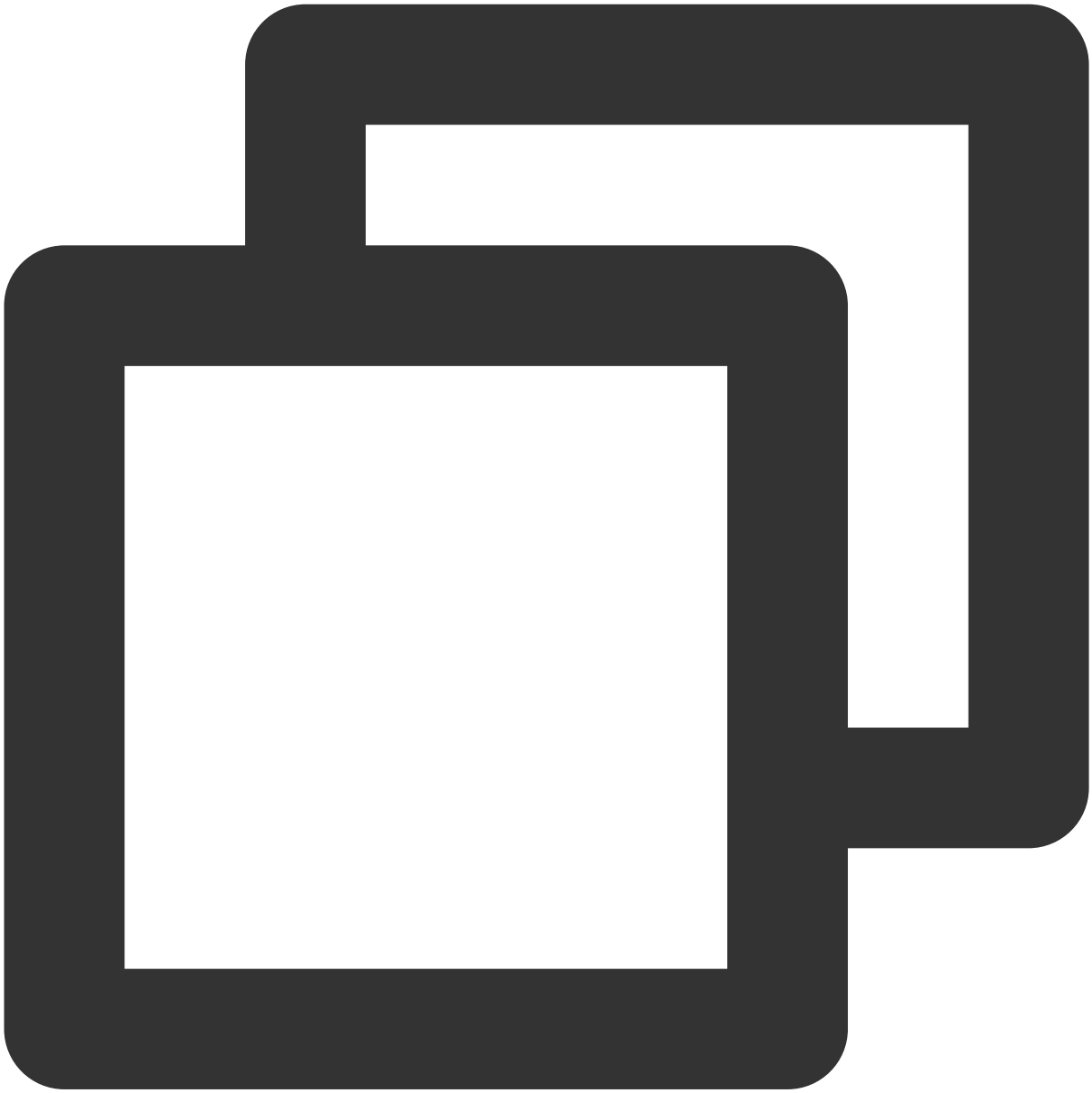
Querying Multi-File Zipping Result

Feature description

This API is used to query the details of a file processing job by job ID.

Method prototype

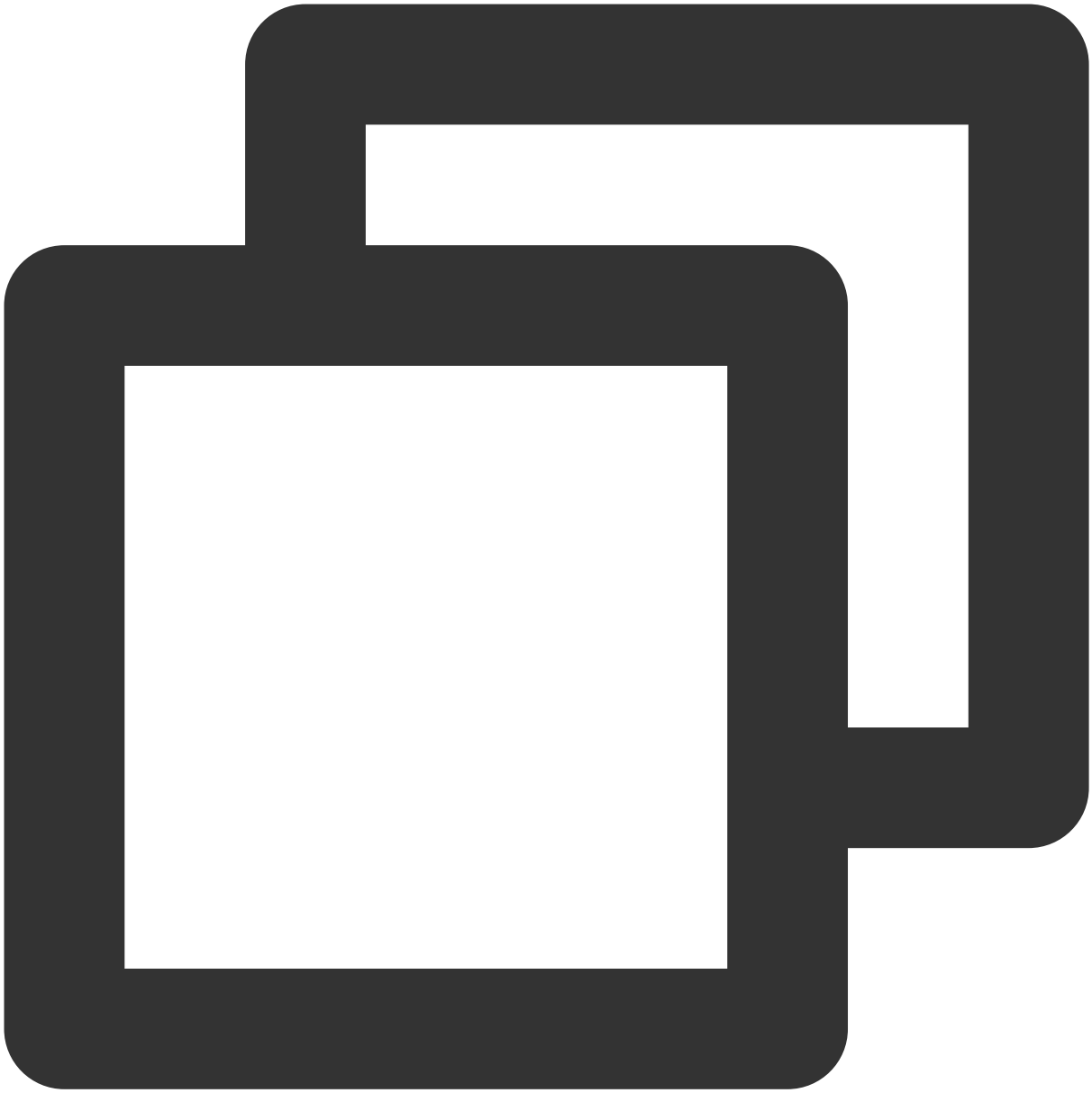
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```
func (s *CIService) DescribeFileProcessJob(ctx context.Context, jobid string) (*Fil
```

Sample request

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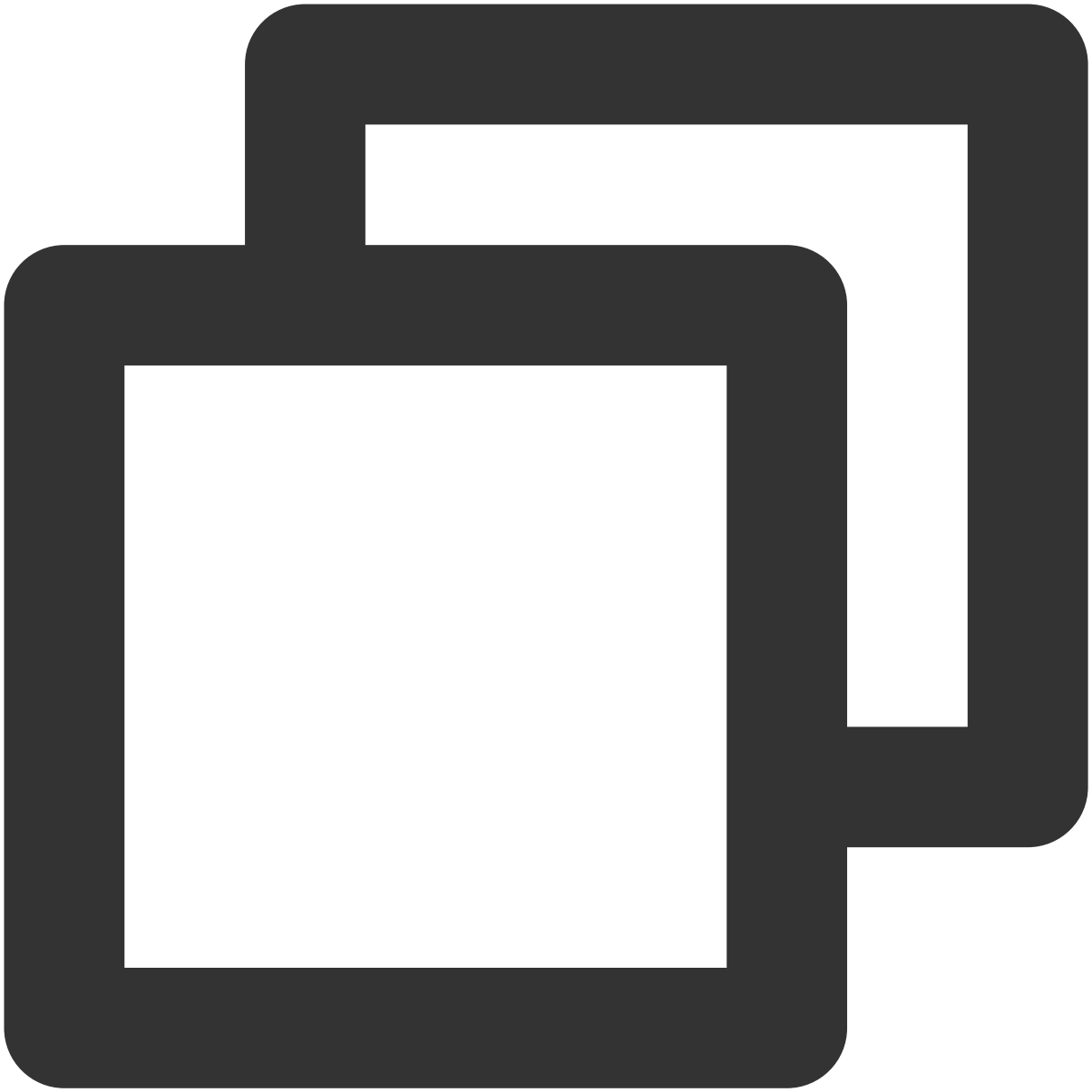
```
jobid := "<jobid>"
res, _, err := c.CI.DescribeFileProcessJob(context.Background(), jobid)
```

Parameter description

Parameter	Description	Type	Required
jobid	File processing job ID	String	Yes

Response description

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```
type FileProcessJobResult struct {
    JobsDetail *FileProcessJobsDetail
}
```

Parameter	Description	Type
JobsDetail	Job details, which is the same as `Response.JobsDetail` in the `CreateFileProcessJob` API.	Container

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Hash Calculation

Last updated：2024-02-29 16:52:32

Overview

This document provides an overview of APIs and SDK code samples for hash calculation in CI.

API	Description
Submitting a sync request for hash calculation	Uses a sync request to perform hash calculation and return a calculated hash value in real time.
Submitting a hash calculation job	Submits a hash calculation job.
Querying the hash calculation result	Queries the result of a specified hash calculation job.

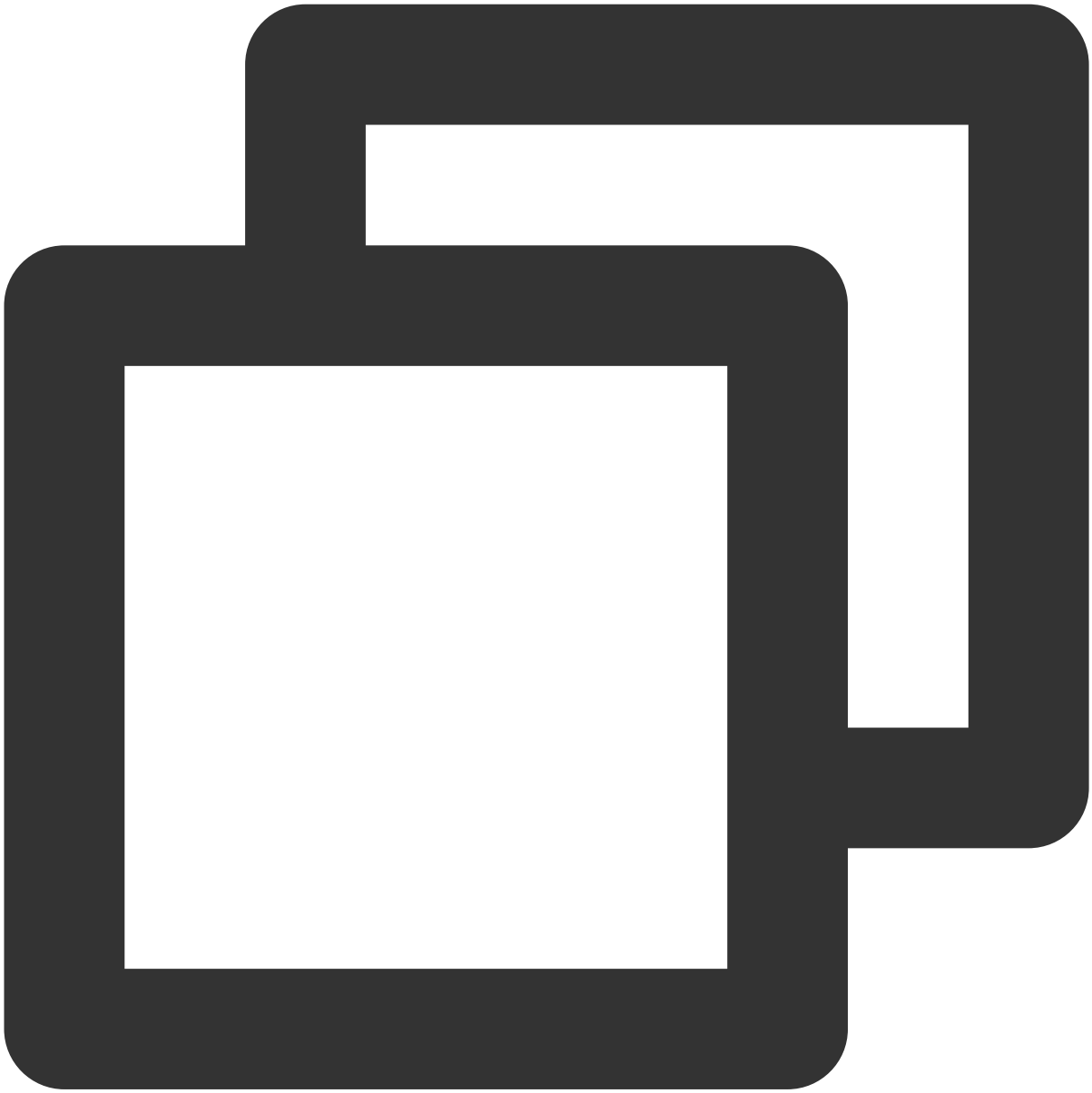
Sync Request for Hash Calculation

Feature description

This API uses a sync request to perform hash calculation and return a calculated hash value.

Method prototype

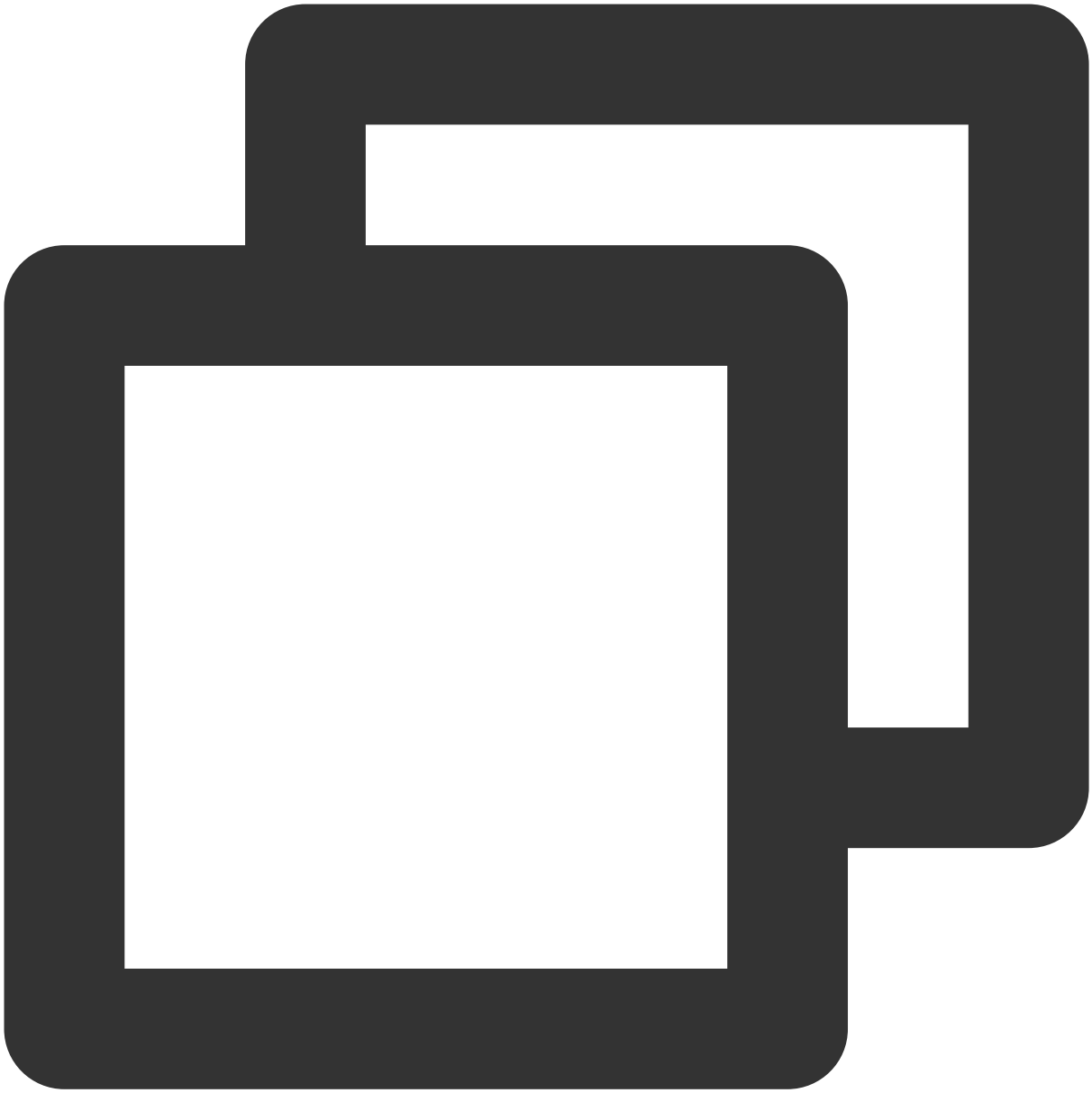
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```
func (s *CIService) GetFileHash(ctx context.Context, name string, opt *GetFileHashO
```

Sample request

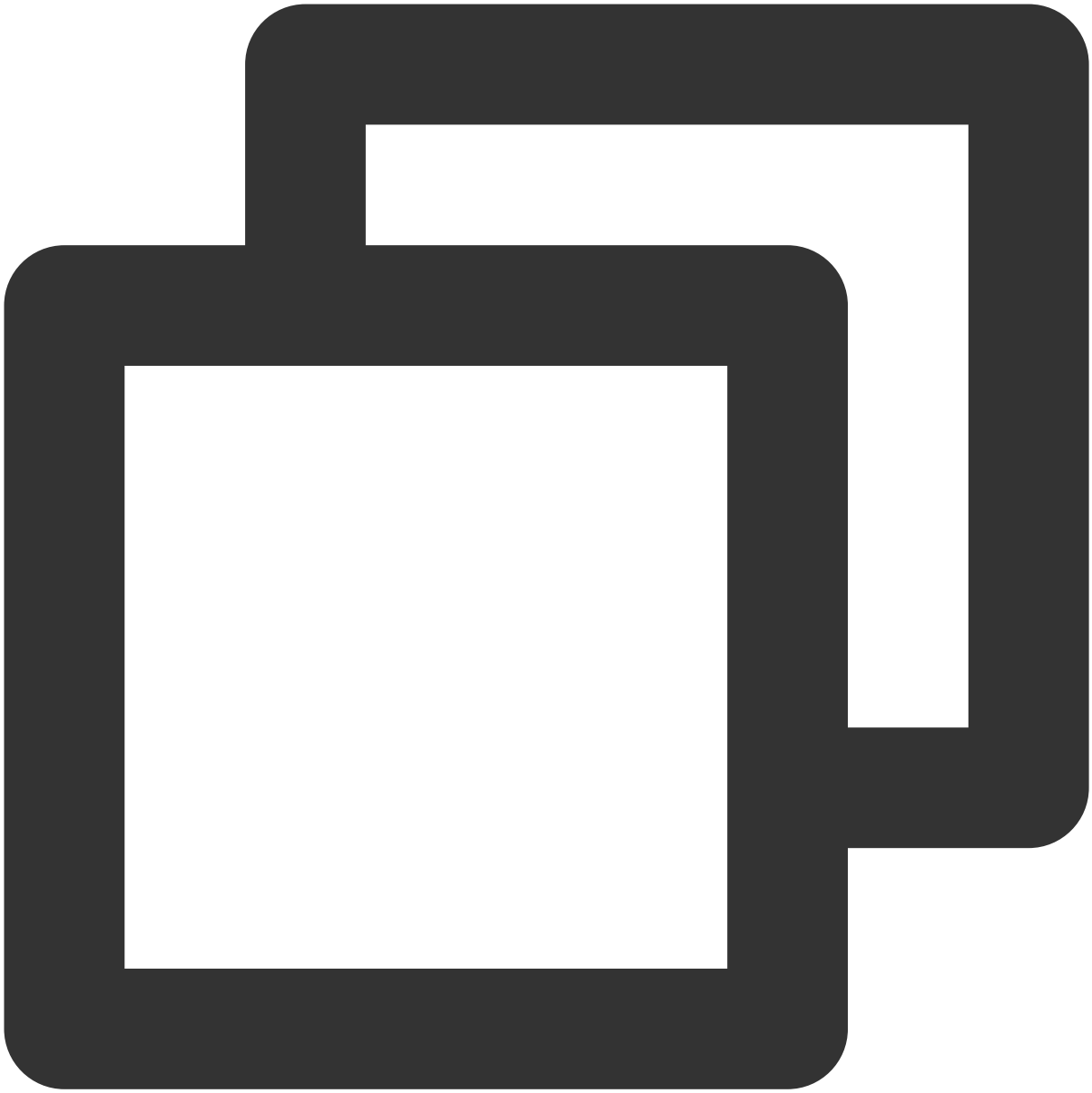
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```
opt := &cos.GetFileHashOptions{
    CIProcess: "filehash",
    Type:      "md5",
}
res, _, err := c.CI.GetFileHash(context.Background(), "test.jpg", opt)
```

Parameter description

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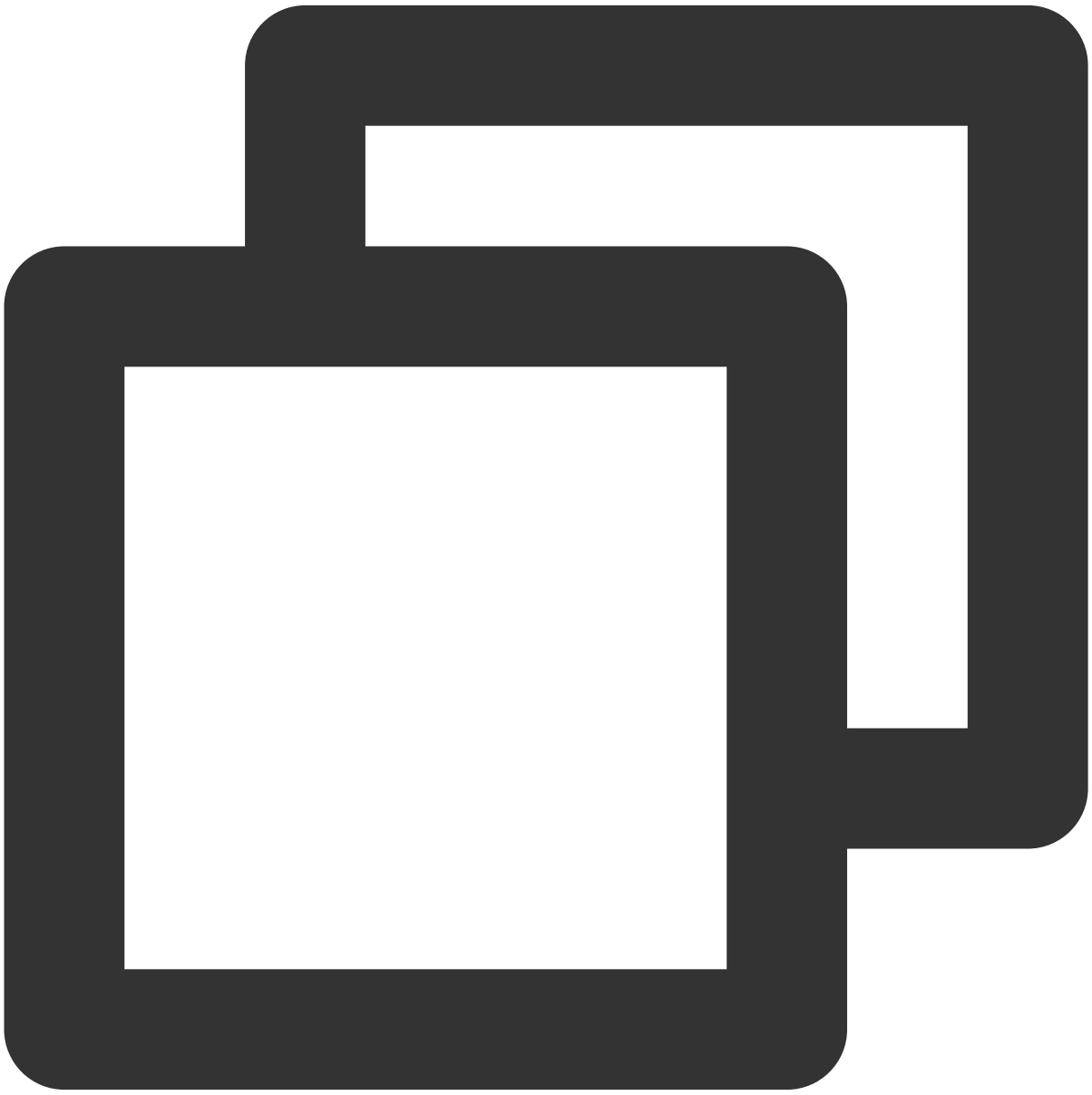
```
type GetFileHashOptions struct {
    CIProcess   string
    Type        string
    AddToHeader bool
}
```

Parameter	Description	Type	Required
name	Full path of the file to be operated on	String	Yes
CIProcess	Operation type. It is fixed at `filehash` for hash calculation.	String	Yes

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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.	Bool	No

Response description



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```
type GetFileHashResult struct {
    FileHashCodeResult *FileHashCodeResult
    Input              *FileProcessInput
}
```

Parameter	Description	Type
FileHashCodeResult	Hash calculation result. For more information, see `FileProcessJobOptions.Input` .	Container
Input	Basic information of the input file. For more information, see `FileProcessJobOptions.Operation.FileHashCodeResult` .	Container

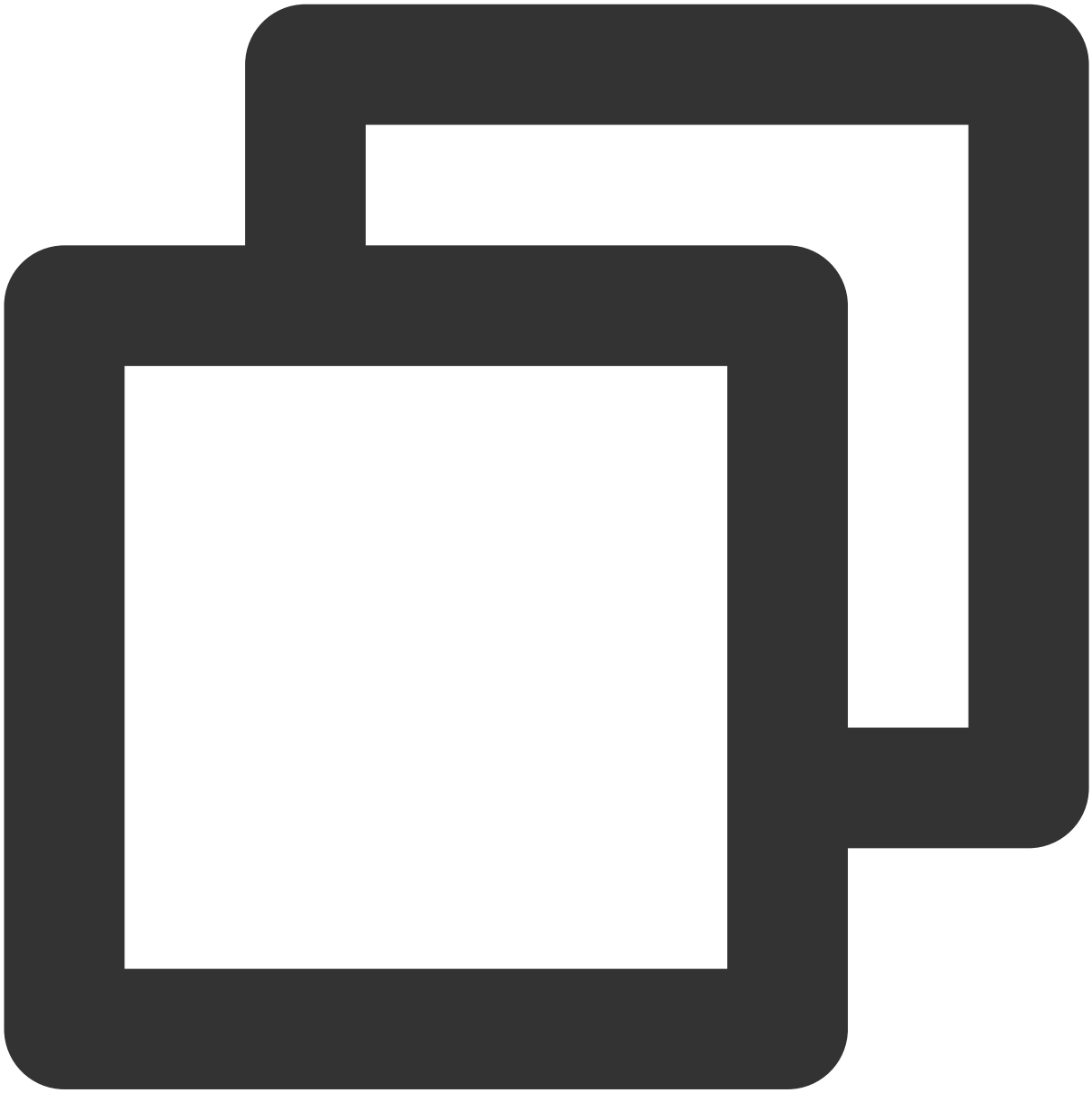
Submitting a Hash Calculation Job

Feature description

This API is used to submit a job to perform hash calculation and asynchronously return a calculated hash value.

Method prototype

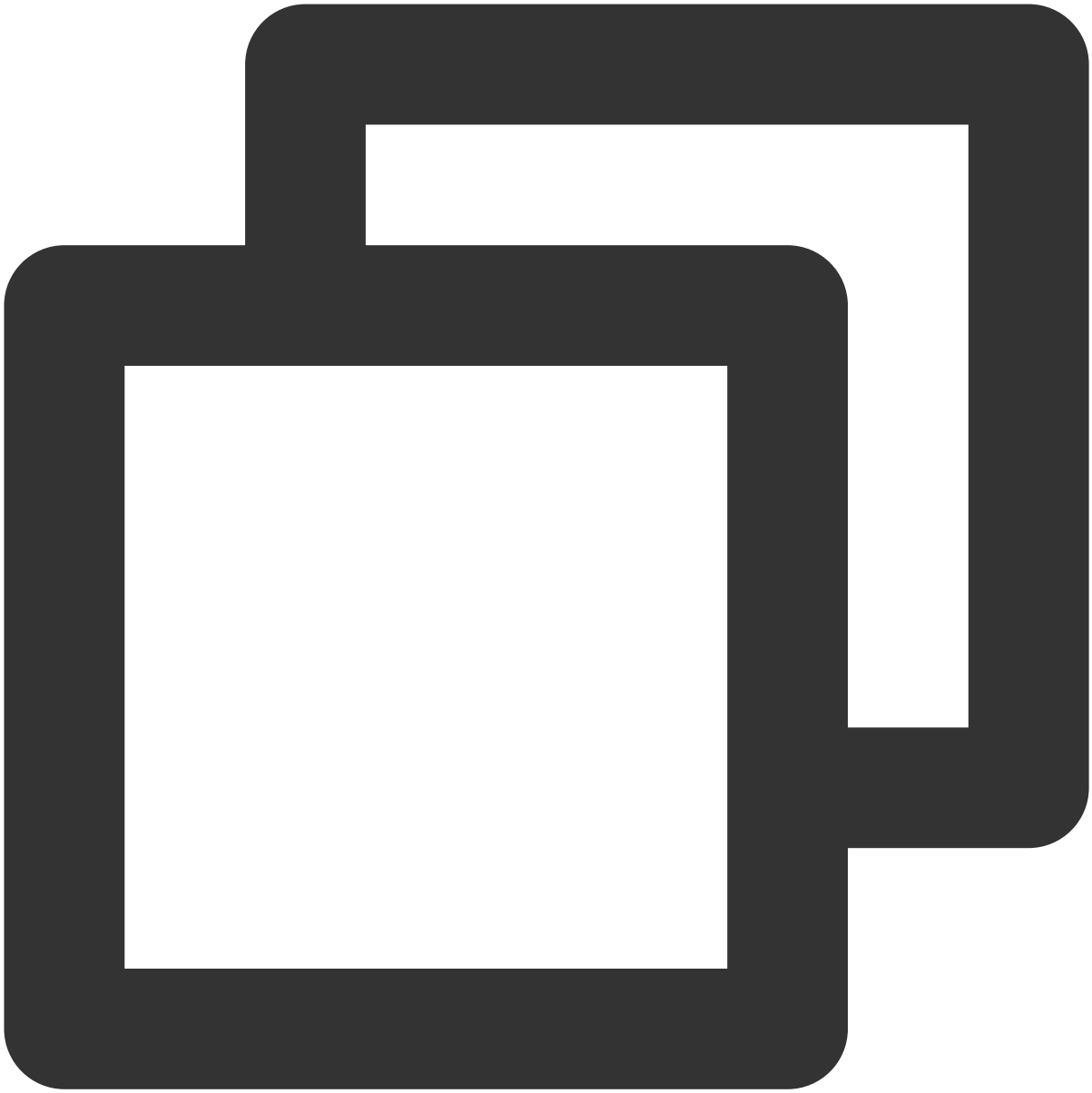
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```
func (s *CIService) CreateFileProcessJob(ctx context.Context, opt *FileProcessJobOp
```

Sample request

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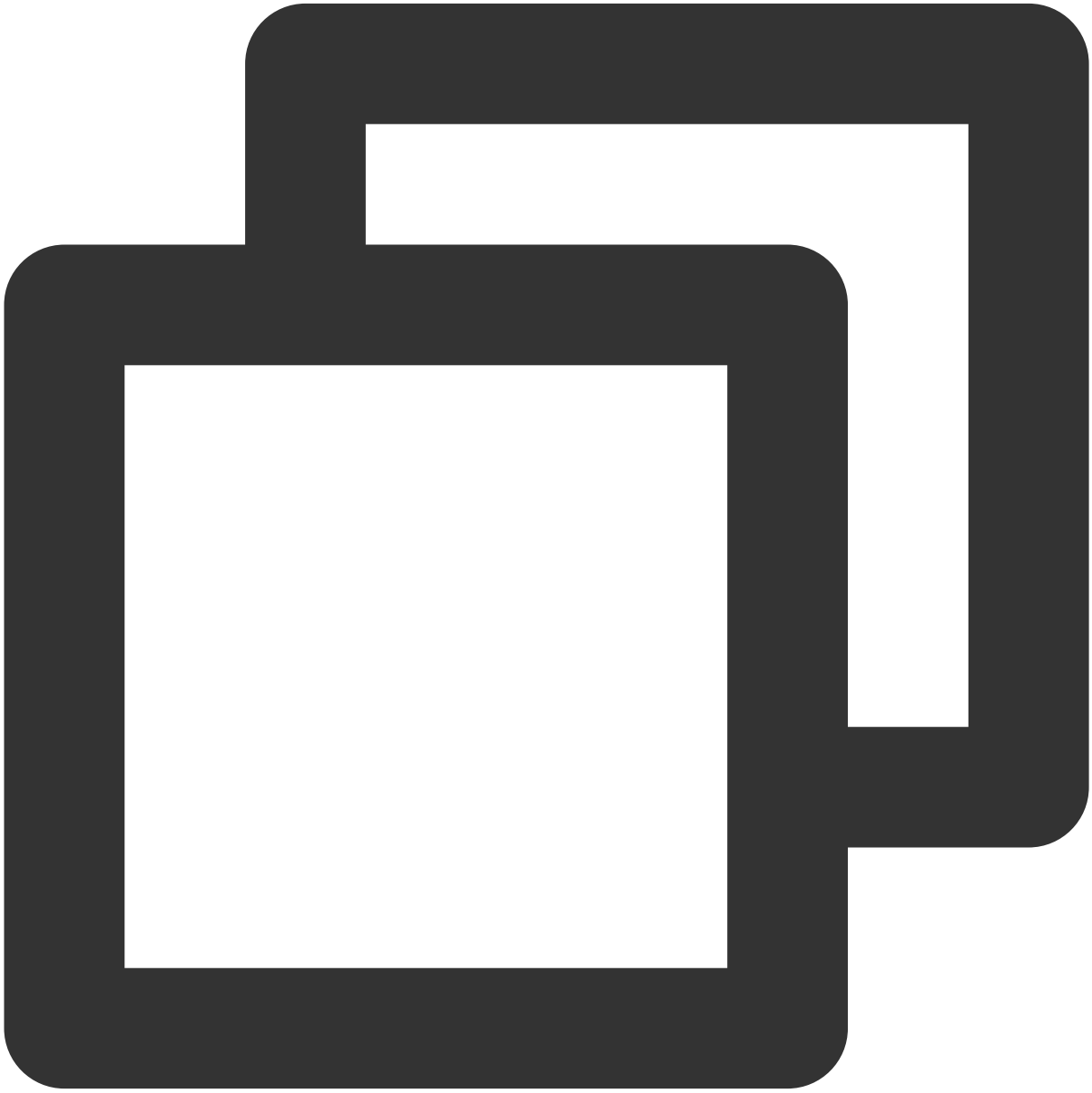


```
createJobOpt := &cos.FileProcessJobOptions{
    Tag: "FileHashCode",
    Input: &cos.FileProcessInput{
        Object: "294028.zip",
    },
    Operation: &cos.FileProcessJobOperation{
        FileHashCodeConfig: &cos.FileHashCodeConfig{
            Type:        "sha1",
            AddToHeader: true,
        },
    },
```

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```
    QueueId: "p111a8dd208104ce3b11c78398f658ca8",
}
res, _, err := c.CI.CreateFileProcessJob(context.Background(), createJobOpt)
```

Parameter description



```
type FileProcessJobOptions struct {
    XMLName          xml.Name
    Tag              string
    Input            *FileProcessInput
    Operation        *FileProcessJobOperation
```

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```
    QueueId          string
    CallBackFormat   string
    CallBackType     string
    CallBack         string
    CallBackMqConfig *NotifyConfigCallBackMqConfig
}
type FileProcessInput struct {
    Region     string
    Bucket     string
    Object           string
}
type FileProcessJobOperation struct {
    FileHashCodeConfig   *FileHashCodeConfig
    FileHashCodeResult   *FileHashCodeResult
    FileUncompressConfig *FileUncompressConfig
    FileUncompressResult *FileUncompressResult
    FileCompressConfig   *FileCompressConfig
    FileCompressResult   *FileCompressResult
    Output               *FileProcessOutput
    UserData             string
}
type FileHashCodeConfig struct {
    Type        string
    AddToHeader bool
}
type FileHashCodeResult struct {
    MD5          string
    SHA1         string
    SHA256       string
    FileSize     int
    LastModified string
    Etag         string
}
type FileUncompressConfig struct {
    Prefix         string
    PrefixReplaced string
}
type FileUncompressResult struct {
    Region    string
    Bucket    string
    FileCount string
}
type FileCompressConfig struct {
    Flatten string
    Format  string
    UrlList string
    Prefix  string
```

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```
    Key     string
}
type FileCompressResult struct {
    Region     string
    Bucket     string
    Object           string
}
type FileProcessOutput struct {
    Region     string
    Bucket     string
    Object           string
}
type NotifyConfigCallBackMqConfig struct {
    MqMode   string
    MqRegion string
    MqName   string
}
```

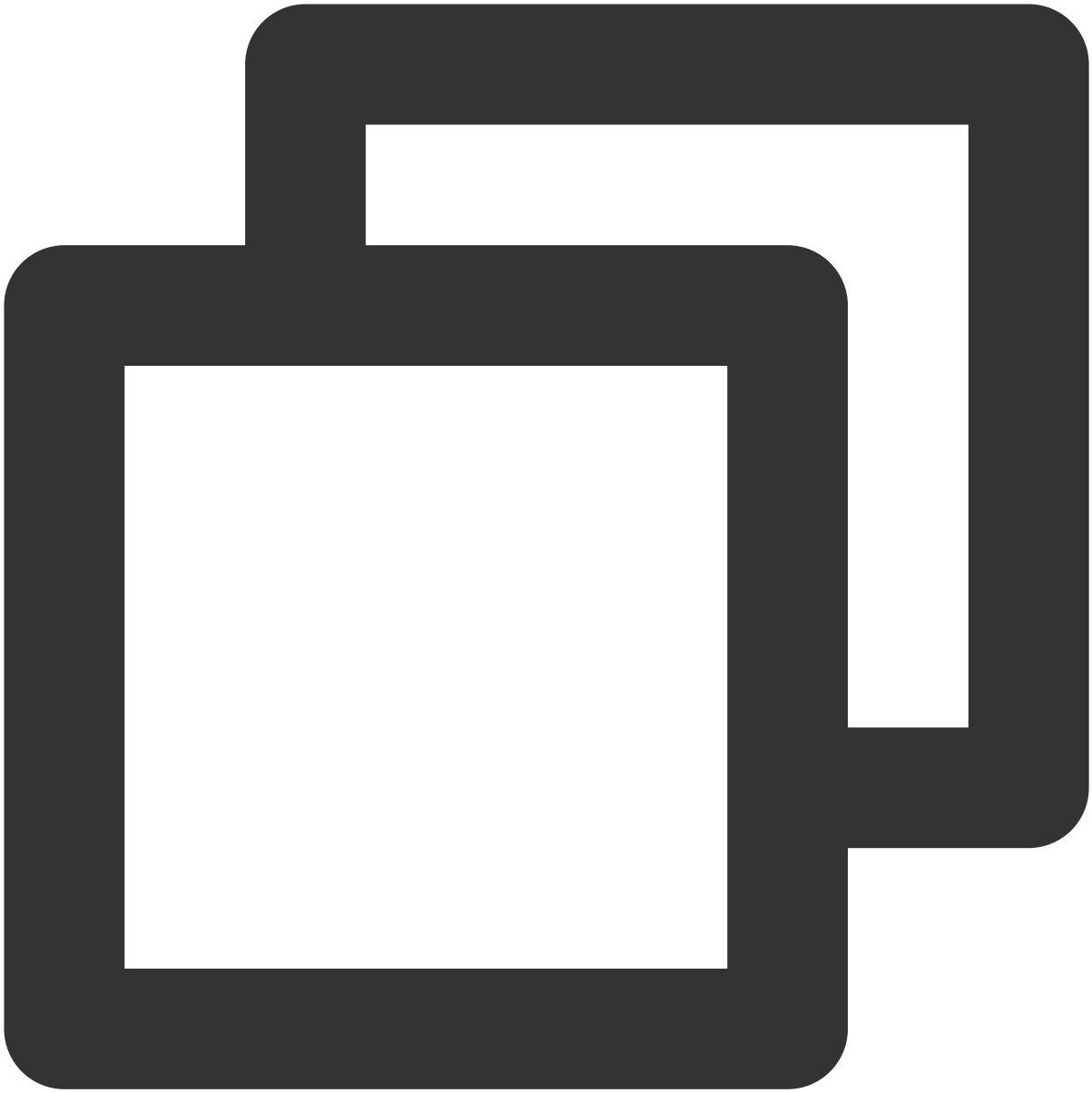
Parameter	Description	Type	Required
Tag	Job type, which currently can only be `FileHashCode`.	String	Yes
Input	The object to be processed. For more information, see Submitting Hash Calculation Job.	Container	Yes
Operation	Operation rule	Container	Yes
Operation.FileHashCodeConfig	Hash calculation rule. For more information, see Submitting Hash Calculation Job.	Container	Yes
Operation.FileHashCodeResult	The calculated hash value, which will not be returned when the job is not completed. For more information, see Submitting Hash Calculation Job.	Container	No
Operation.UserData	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No
QueueId	ID of the queue where the job is in.	String	Yes
CallBackFormat	Job callback format, which can be `JSON` or `XML` (default). It takes priority over that of the queue.	String	No
CallBackType	Job callback type, which can be `Url` (default)	String	No

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	or `TDMQ` . It takes priority over that of the queue.		
CallBack	Job callback address. It takes priority over that of the queue.	String	No
CallBackMqConfig	TDMQ configuration for job callback as described in Structure, which is required if `CallBackType` is `TDMQ` .	Container	No

Response description

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```
type FileProcessJobResult struct {
    JobsDetail FileProcessJobResult
}
type FileProcessJobResult struct {
    Code         string
    Message      string
    JobId        string
    Tag          string
    State        string
    CreationTime string
    StartTime    string
```

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```
    EndTime      string
    QueueId      string
    Input        *FileProcessInput
    Operation    *FileProcessJobOperation
}
```

Parameter	Description	Type
JobsDetail	Job details	Container
Code	Error code, which will be returned only if `State` is `Failed`.	String
Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Job ID	String
Tag	Job tag: FileHashCode	String
State	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Job creation time	String
StartTime	Job start time	String
EndTime	Job end time	String
QueueId	ID of the queue where the job is in	String
Input	Path of the input file for this job. For more information, see `FileProcessJobOptions.Input`.	Container
Operation	Operation rule. For more information, see `FileProcessJobOptions.Operation`.	Container

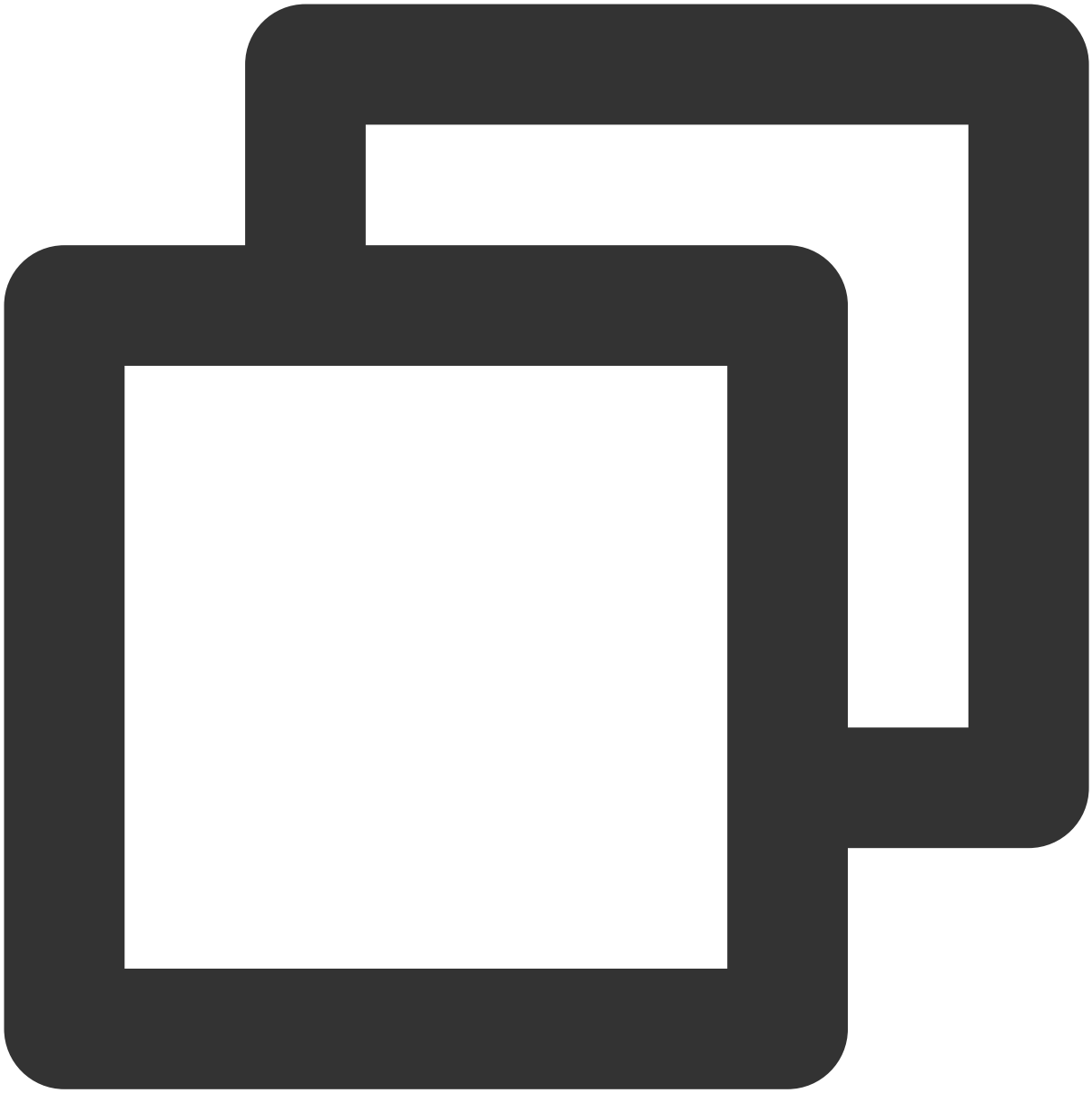
Querying Hash Calculation Result

Feature description

This API is used to query the details of a file processing job by job ID.

Method prototype

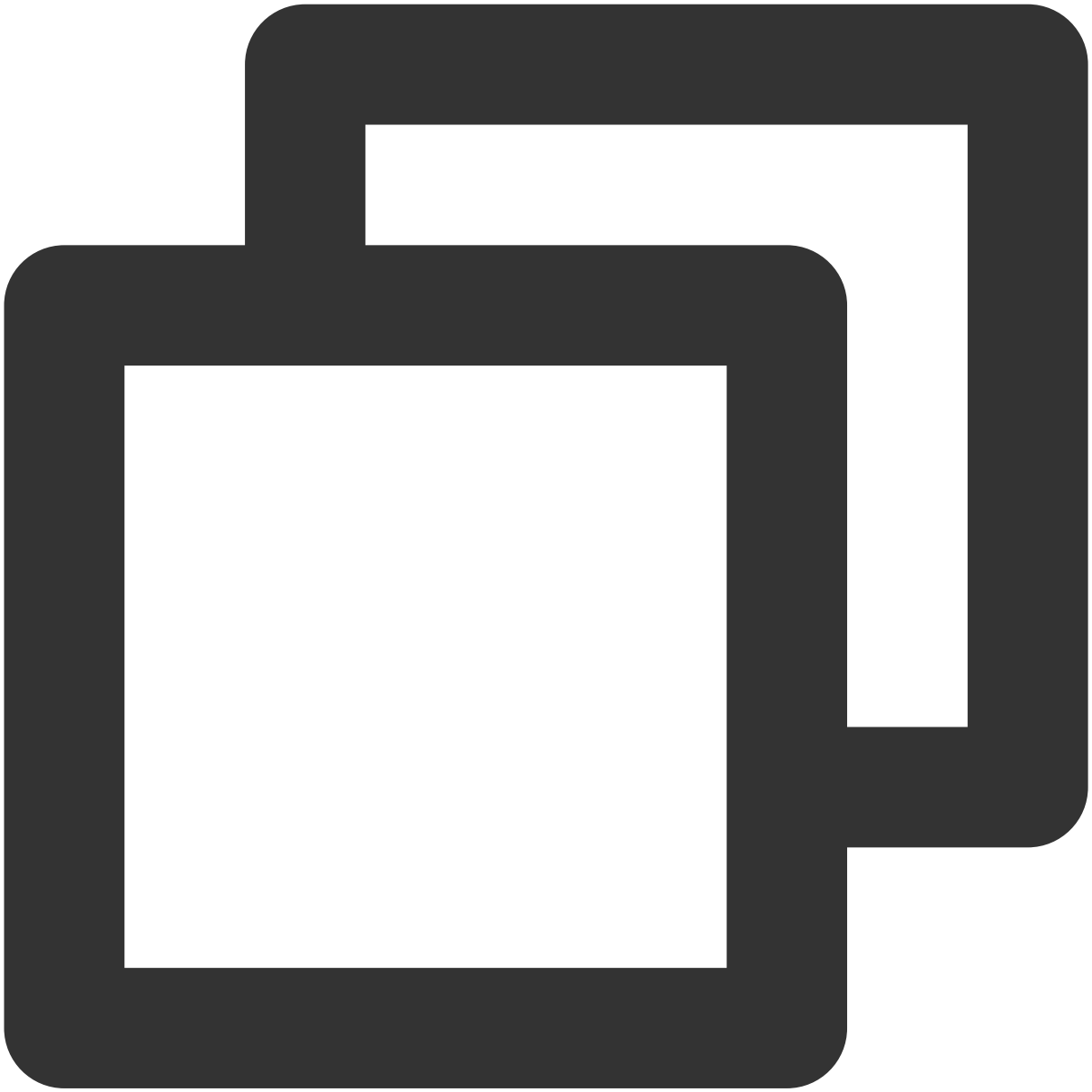
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```
func (s *CIService) DescribeFileProcessJob(ctx context.Context, jobid string) (*Fil
```

Sample request

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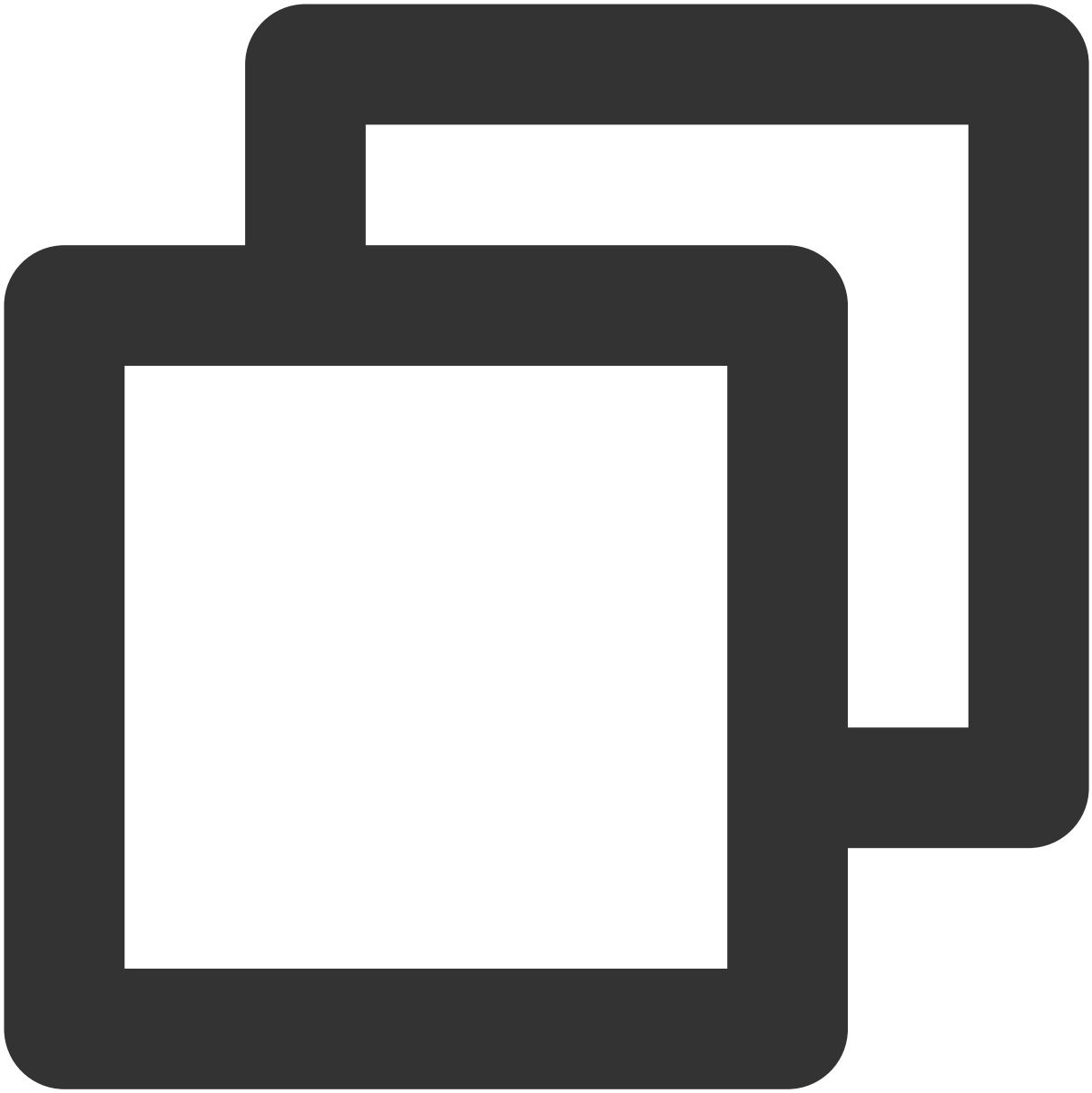
```
jobid := "<jobid>"
res, _, err := c.CI.DescribeFileProcessJob(context.Background(), jobid)
```

Parameter description

Parameter	Description	Type
jobid	File processing job ID	String

Response description

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```
type FileProcessJobResult struct {
    JobsDetail *FileProcessJobsDetail
}
```

Parameter	Description	Type	Required
JobsDetail	Job details, which is the same as `Response.JobsDetail` in the `CreateFileProcessJob` API.	Container	Yes

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COS iOS SDK
Content Moderation
Image Moderation

Last updated：2024-02-29 16:06:23

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for image moderation.

API	Description
Moderating single image	Scans existing data stored in COS for pornographic, illegal, and advertising images.
Batch moderating images	Moderates multiple images in batches.
Querying the image moderation job result	Queries the result of the specified image moderation job.

SDK API References

For parameters and method description of all APIs in the SDK, see SDK API Reference.

Single Image Moderation

Feature description

This API (`QCloudSyncImageRecognitionRequest`) is used to submit an image moderation job. You can receive the moderation result by setting the callback address or querying by `JobId` .

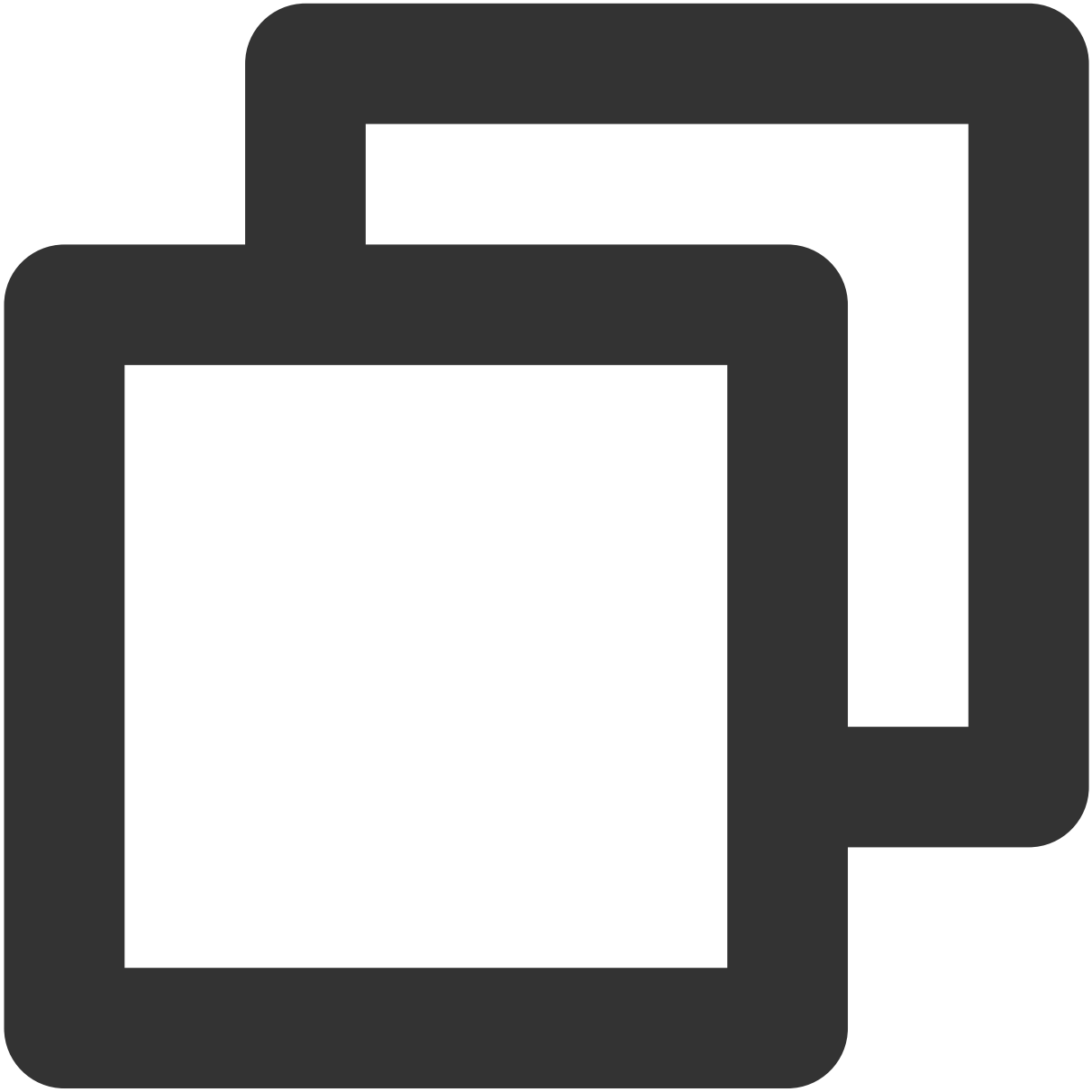
Note:

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The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C



```
QCloudSyncImageRecognitionRequest * request = [[QCloudSyncImageRecognitionRequest a

// Bucket name in the format of BucketName-APPID
request.bucket = @"bucket";

// File region
```

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```
request.regionName = @"regionName";

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = @"***.jpg";

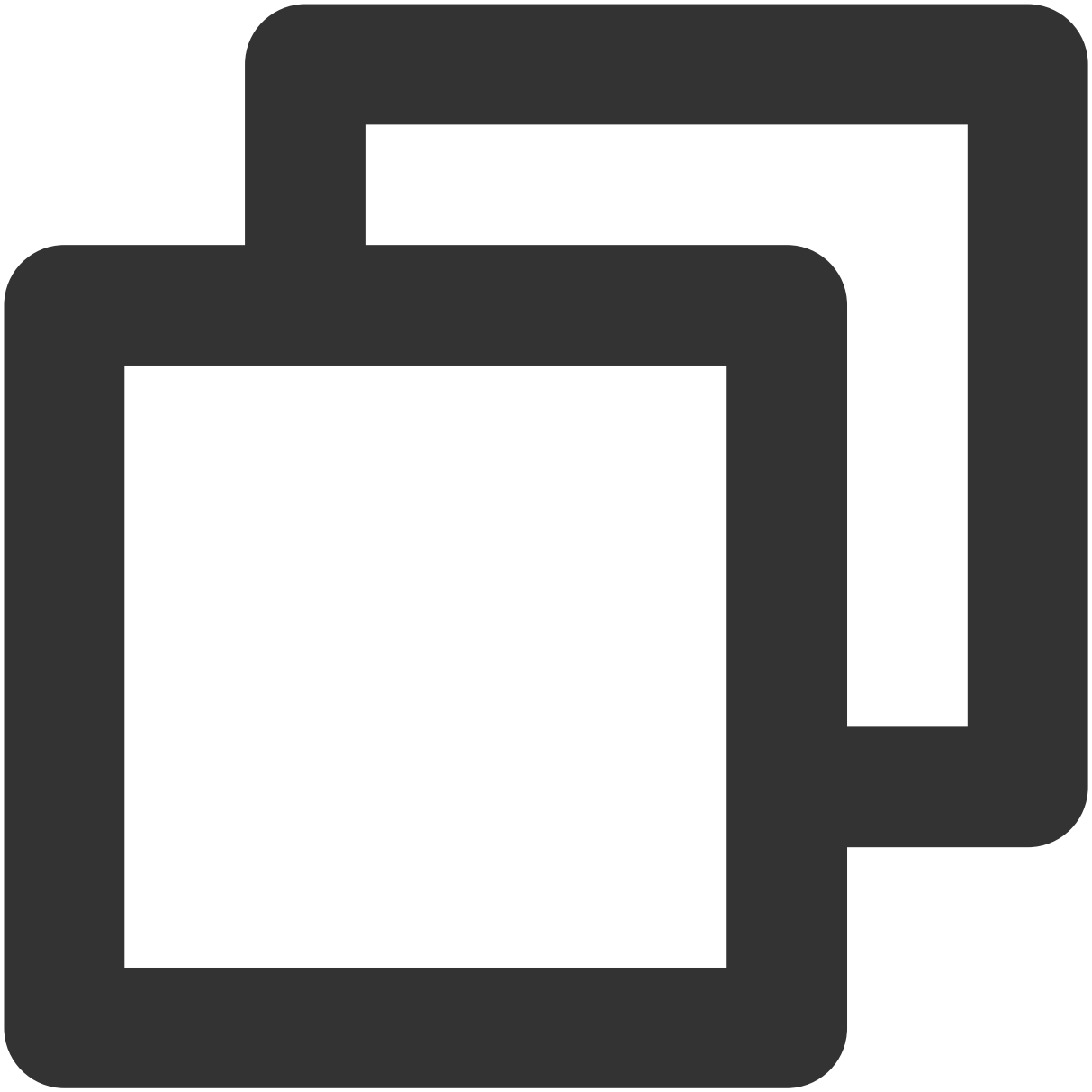
// Moderation type, such as `porn` (pornography) and `ads` (advertising).
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionPorn | QCloudRecognitionTerrorist | QCloudRec
[request setFinishBlock:^(QCloudImageRecognitionResult * _Nullable result, NSError
// `outputObject` is the moderation result. For detailed fields, see the API docume
// `QCloudImageRecognitionResult` class
}];
[[QCloudCOSXMLService defaultCOSXML] SyncImageRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift

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```
let request : QCloudSyncImageRecognitionRequest = QCloudSyncImageRecognitionRequest

// Bucket name in the format of BucketName-APPID
request.bucket = "bucket";

// File region
request.regionName = "regionName";

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = "***.jpg";
```

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```
// Moderation type, such as `porn` (pornography) and `ads` (advertising).
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionEnum(rawValue: QCloudRecognitionEnum.porn.raw

request.finishBlock = { (result, error) in
        // `outputObject` is the moderation result. For detailed fields, see the AP
    // `QCloudImageRecognitionResult` class
}
QCloudCOSXMLService.defaultCOSXML().syncImageRecognition(request);
```

Note:

For more complete samples, visit GitHub.

Batch Image Moderation

Feature description

The batch image moderation API adopts a sync POST request method. You can use this API to perform content moderation on multiple image files.

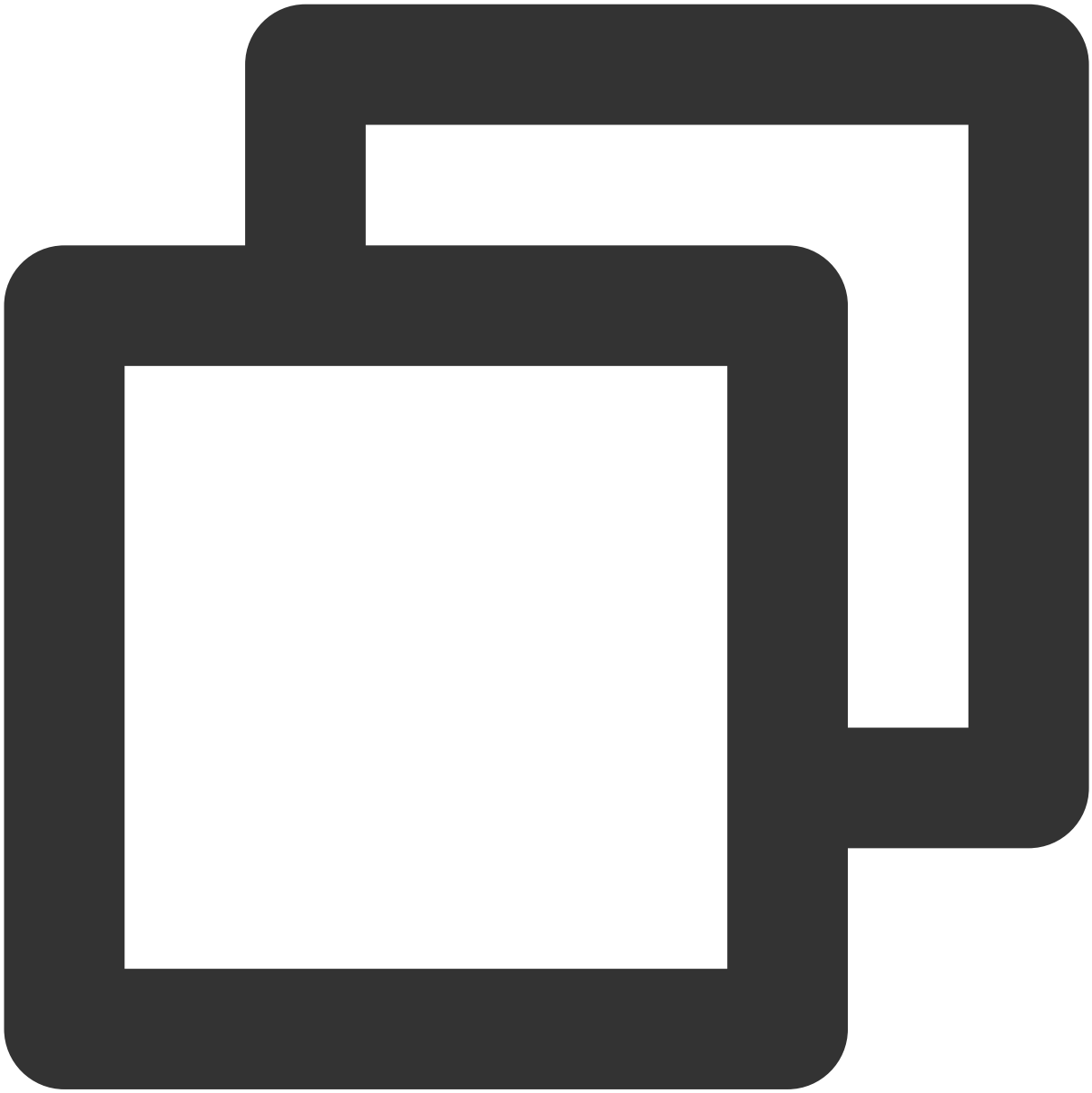
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudBatchimageRecognitionRequest * request = [[QCloudBatchimageRecognitionRequest

request.bucket = @"bucket";
// File region
request.regionName = @"regionName";

NSMutableArray * input = [NSMutableArray new];

// The image object to be moderated
QCloudBatchRecognitionImageInfo * input1 = [QCloudBatchRecognitionImageInfo new];
```

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```
input1.Object = @"***.jpg";
[input addObject:input1];

QCloudBatchRecognitionImageInfo * input2 = [QCloudBatchRecognitionImageInfo new];
input2.Object = @"***.jpg";
[input addObject:input2];

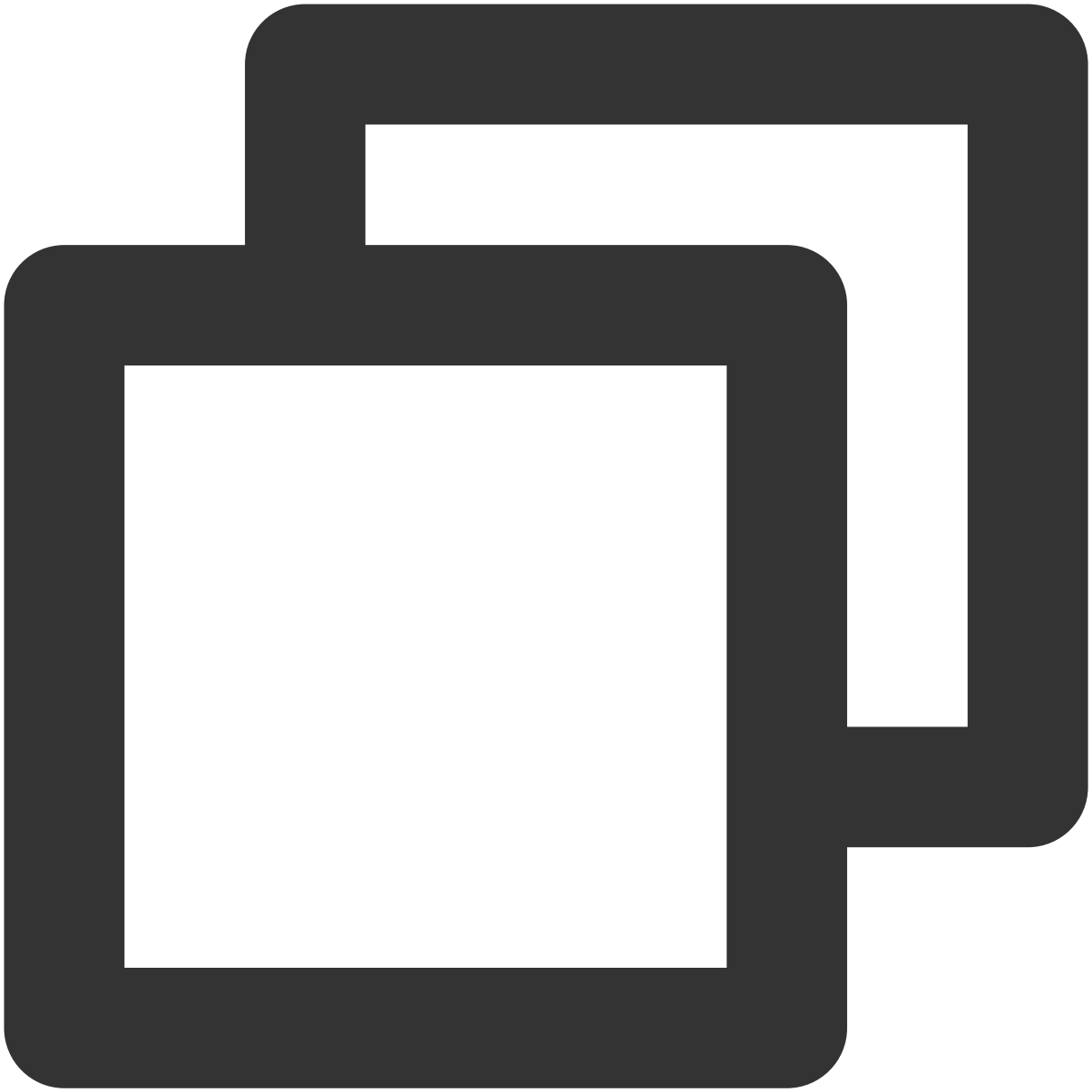
// The array of image objects to be moderated
request.input = input;
request.detectType = QCloudRecognitionPorn | QCloudRecognitionTerrorist | QCloudRec
[request setFinishBlock:^(QCloudBatchImageRecognitionResult * _Nullable result, NSE
// `outputObject` is the moderation result. For detailed fields, see the API docume
// `QCloudBatchImageRecognitionResult` class
}];
[[QCloudCOSXMLService defaultCOSXML] BatchImageRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift

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```
let request = QCloudBatchimageRecognitionRequest();
request.bucket = "bucket";

// File region
request.regionName = "regionName";

// The image object to be moderated
let input1 = QCloudBatchRecognitionImageInfo();
input1.object = "***.jpg";

let input2 = QCloudBatchRecognitionImageInfo();
```

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```
input2.object = "***.jpg";

// The array of image objects to be moderated
request.input = [input1,input2];
request.detectType = QCloudRecognitionEnum(rawValue: QCloudRecognitionEnum.porn.raw
request.setFinish { outputObject, error in
// `outputObject` is the moderation result. For detailed fields, see the API docume
// `QCloudBatchImageRecognitionResult` class
}
QCloudCOSXMLService.defaultCOSXML().batchImageRecognition(request);
```

Note:

For more complete samples, visit GitHub.

Querying Image Moderation Job Result

Feature description

This API (`QCloudGetImageRecognitionRequest`) is used to query the result of the specified sync or batch image moderation job by `JobId` .

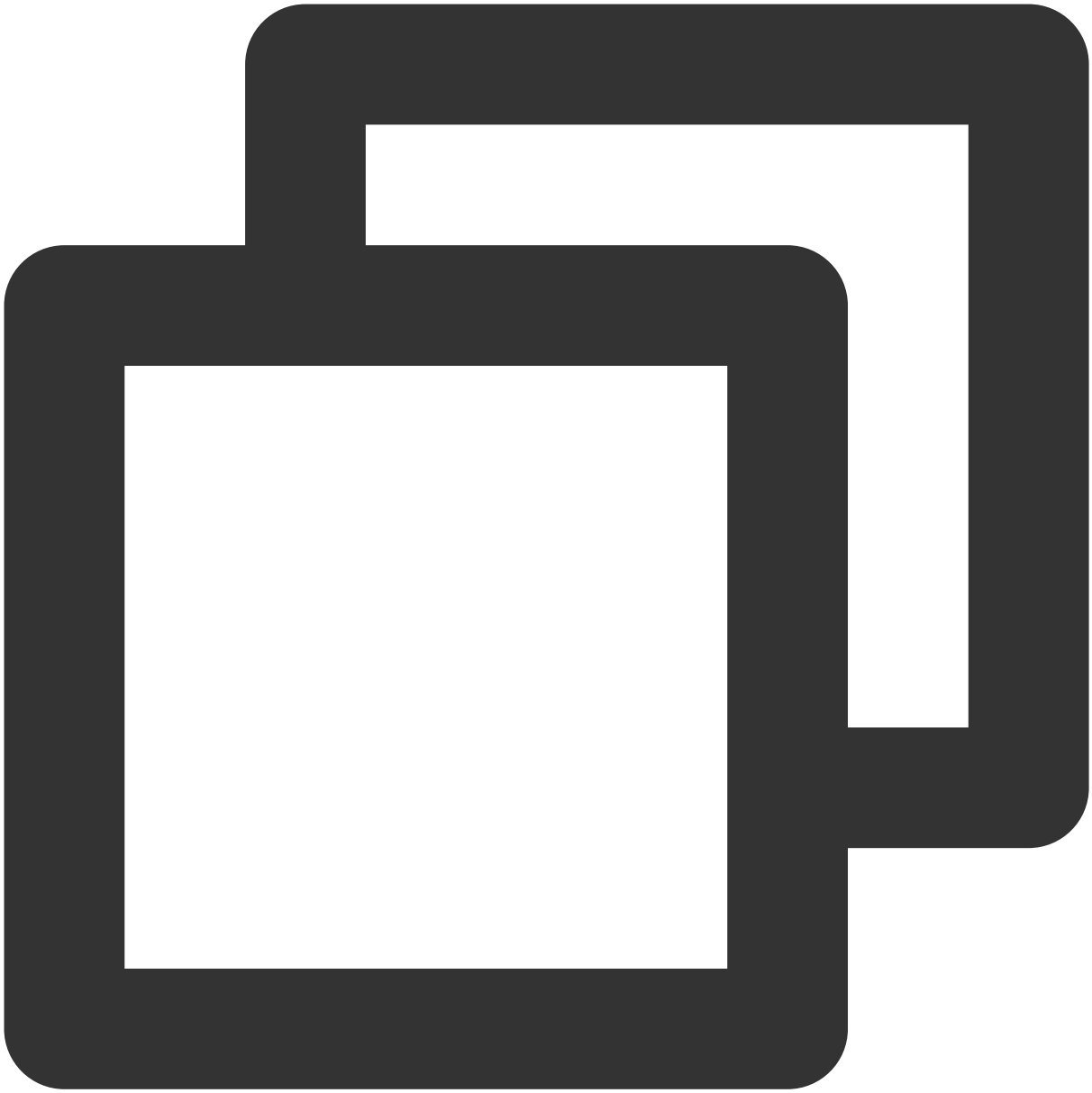
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudGetImageRecognitionRequest * request = [[QCloudGetImageRecognitionRequest all

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";

// File region
request.regionName = @"regionName";

// The `jobid` of the sync or batch moderation job
request.jobId = @"jobid";
```

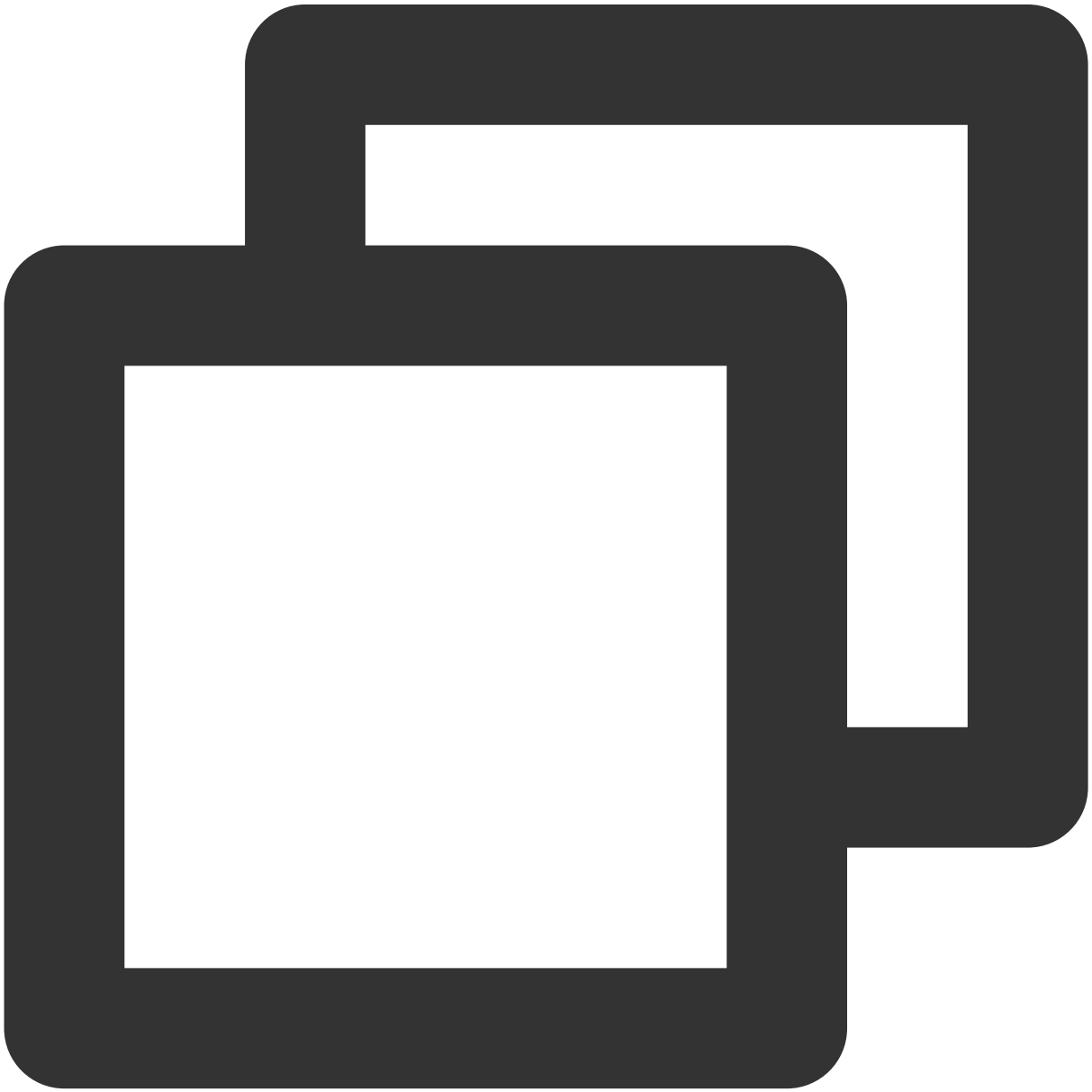
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```
request.finishBlock = ^(QCloudImageRecognitionResult * outputObject, NSError *error
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudImageRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] GetImageRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift



```
let request = QCloudGetImageRecognitionRequest();
```

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```
// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";

request.regionName = "regionName";

// The `jobid` of the sync or batch moderation job
request.jobId = "jobid";

request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudWebRecognitionResult` class
};
QCloudCOSXMLService.defaultCOSXML().getImageRecognition(request);
```

Note:

For more complete samples, visit GitHub.

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Video Moderation

Last updated：2024-03-04 18:02:40

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

API	Description
Submitting a video moderation job	Submits a video moderation job.
Querying the video moderation job result	Queries the result of the specified video moderation job.

SDK API References

For parameters and method description of all APIs in the SDK, see SDK API Reference.

Creating a Task

Feature description

This API (`QCloudPostVideoRecognitionRequest`) is used to submit a video moderation job. You can receive the moderation result by setting the callback address or querying by `JobId` .

Note:

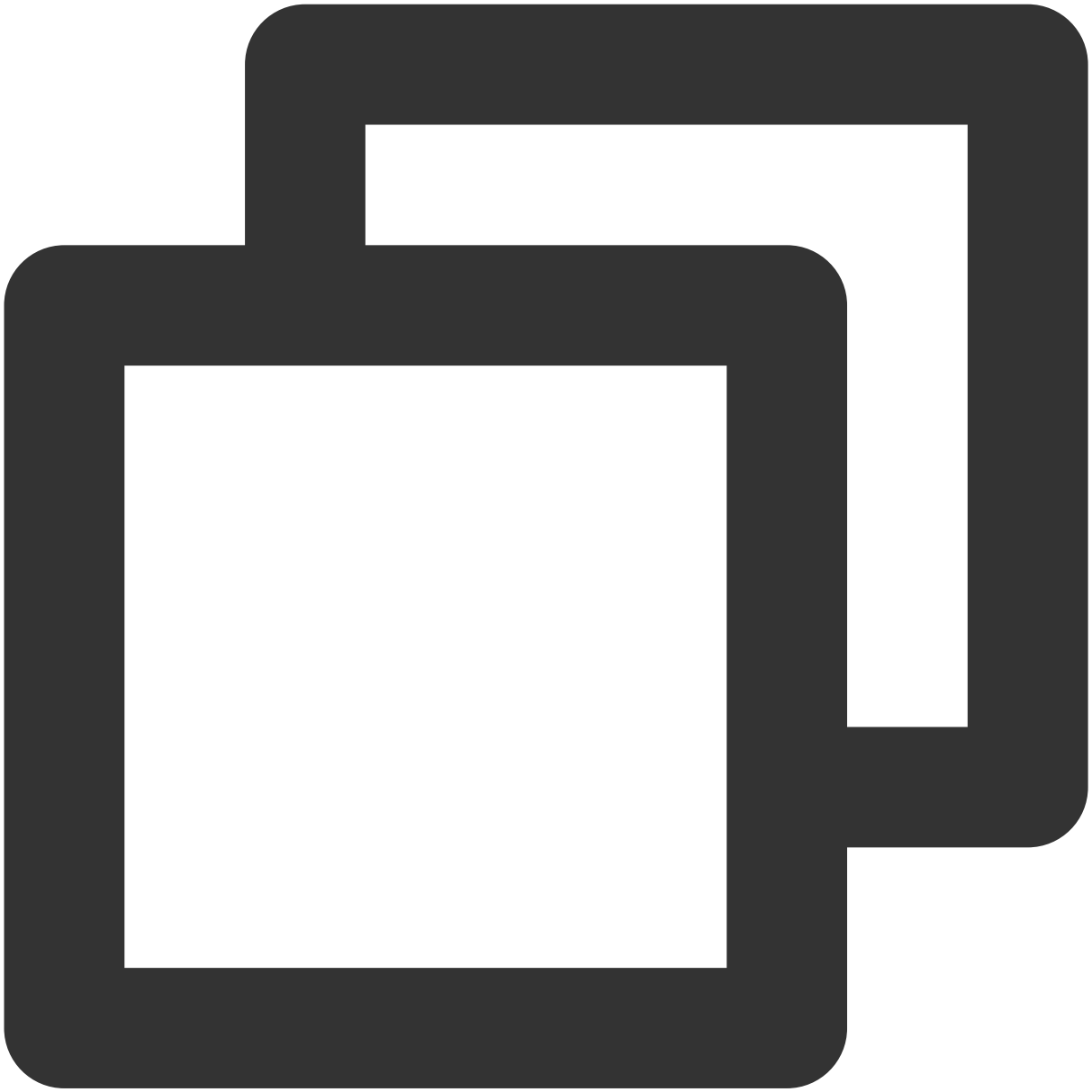
The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

Swift

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```
QCloudPostVideoRecognitionRequest * request = [[QCloudPostVideoRecognitionRequest a

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = @"exampleobject";

// File region
request.regionName = @"regionName";

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";
```

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```
// Moderation type, such as `porn` (pornography) and `ads` (advertising).
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionPorn | QCloudRecognitionAds;

// Frame capturing mode. Valid values: `Interval` (interval mode), `Average` (avera
// `Interval` mode: The `TimeInterval` and `Count` parameters take effect. If `Coun
// `Average` mode: The `Count` parameter takes effect, indicating to capture a tota
// `Fps` mode: `TimeInterval` indicates how many frames to capture per second, and
request.mode = QCloudVideoRecognitionModeFps;

// Video frame capturing frequency. Value range: (0.000, 60.000] seconds. The value
request.timeInterval = 1;

// The number of captured frames. Value range: (0, 10000].
request.count = 10;

// Moderation policy. If this parameter is not specified, the default policy will b
request.bizType = @"BizType";

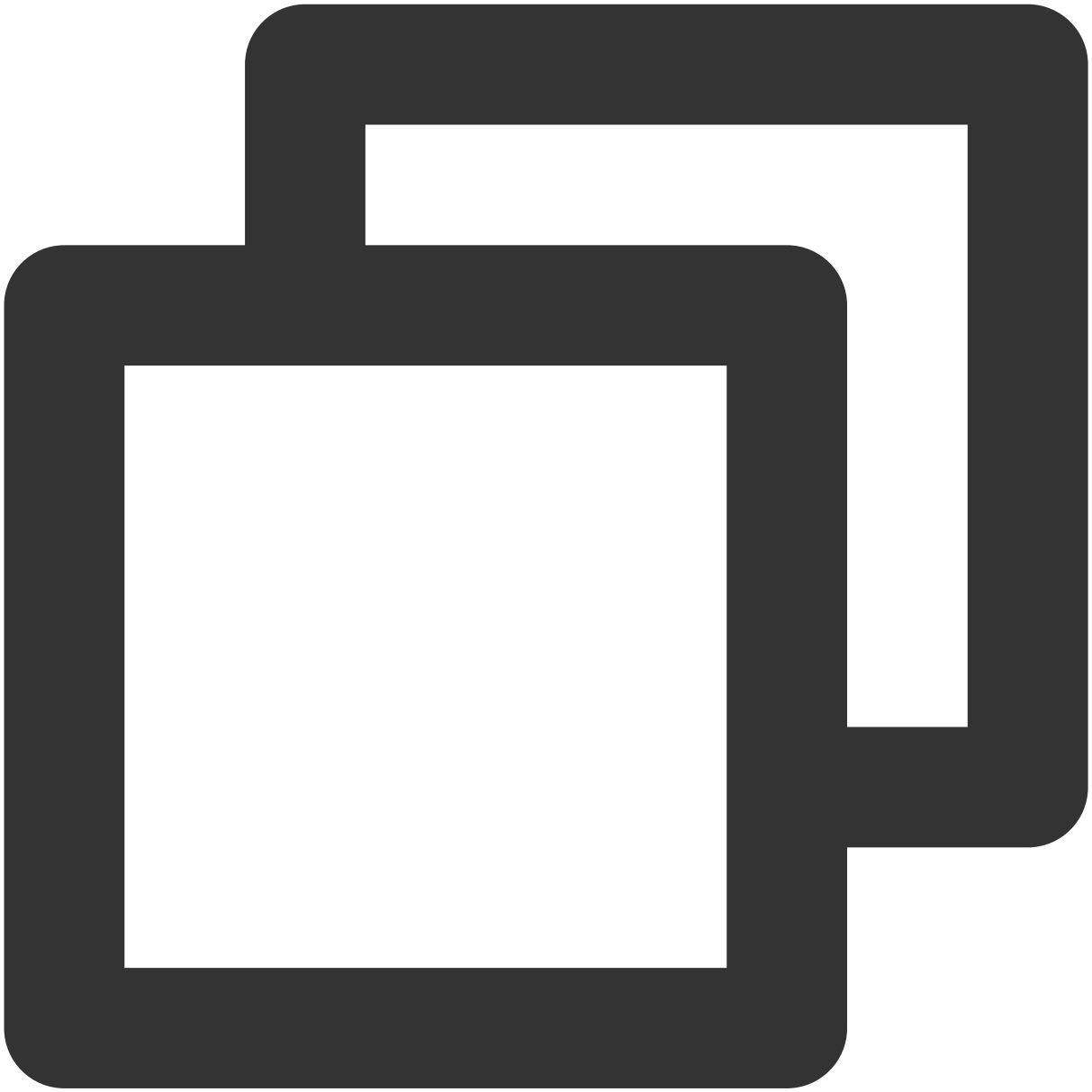
// Specify whether to moderate video sound. Valid values: `0` (moderates the video
request.detectContent = YES;

request.finishBlock = ^(QCloudPostVideoRecognitionResult * outputObject, NSError *e
// The moderation result `outputObject` contains the job ID used for query. For det
// `QCloudPostVideoRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] PostVideoRecognition:request];
```

Note:

For more complete samples, visit GitHub.

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```
let request : QCloudPostVideoRecognitionRequest = QCloudPostVideoRecognitionRequest

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = "exampleobject";

// File region
request.regionName = "regionName";

// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";
```

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```
// Moderation type, such as `porn` (pornography) and `ads` (advertising).
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionEnum(rawValue: QCloudRecognitionEnum.porn.raw

// Frame capturing mode. Valid values: `Interval` (interval mode), `Average` (avera
// `Interval` mode: The `TimeInterval` and `Count` parameters take effect. If `Coun
// `Average` mode: The `Count` parameter takes effect, indicating to capture a tota
// `Fps` mode: `TimeInterval` indicates how many frames to capture per second, and
request.mode = QCloudVideoRecognitionMode.fps;

// Video frame capturing frequency. Value range: (0.000, 60.000] seconds. The value
request.timeInterval = 1;

// The number of captured frames. Value range: (0, 10000].
request.count = 10;

// Moderation policy. If this parameter is not specified, the default policy will b
request.bizType = "BizType";

// Specify whether to moderate video sound. Valid values: `0` (moderates the video
request.detectContent = true;

request.finishBlock = { (result, error) in
        // The moderation result `outputObject` contains the job ID used for query.
    // `QCloudPostVideoRecognitionResult` class
}
QCloudCOSXMLService.defaultCOSXML().postVideoRecognition(request);
```

Note:

For more complete samples, visit GitHub.

Querying Job

Feature description

This API (`QCloudGetVideoRecognitionRequest`) is used to query the result of the specified video moderation job by job ID.

Note:

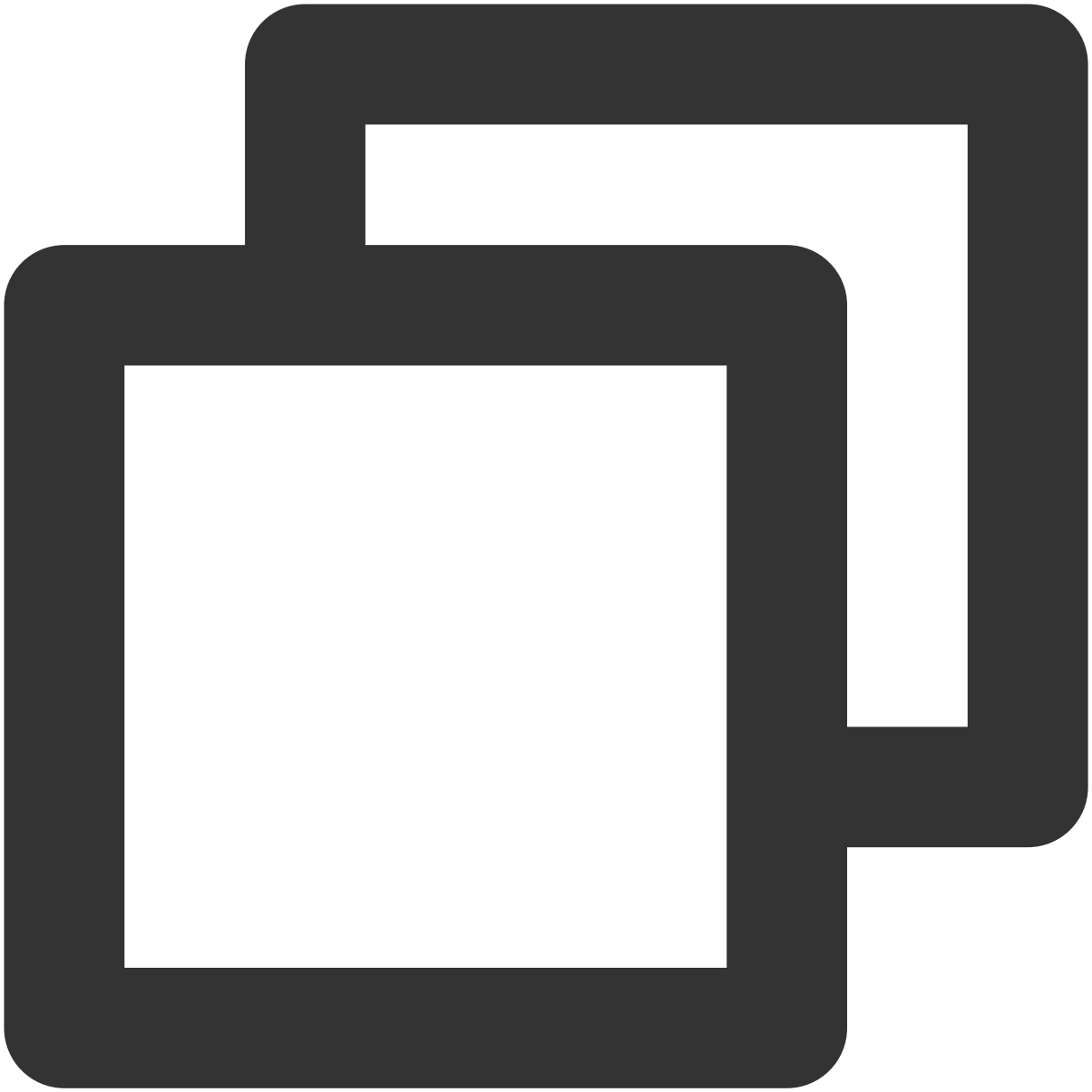
The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

Swift

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```
QCloudGetVideoRecognitionRequest * request = [[QCloudGetVideoRecognitionRequest all

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";

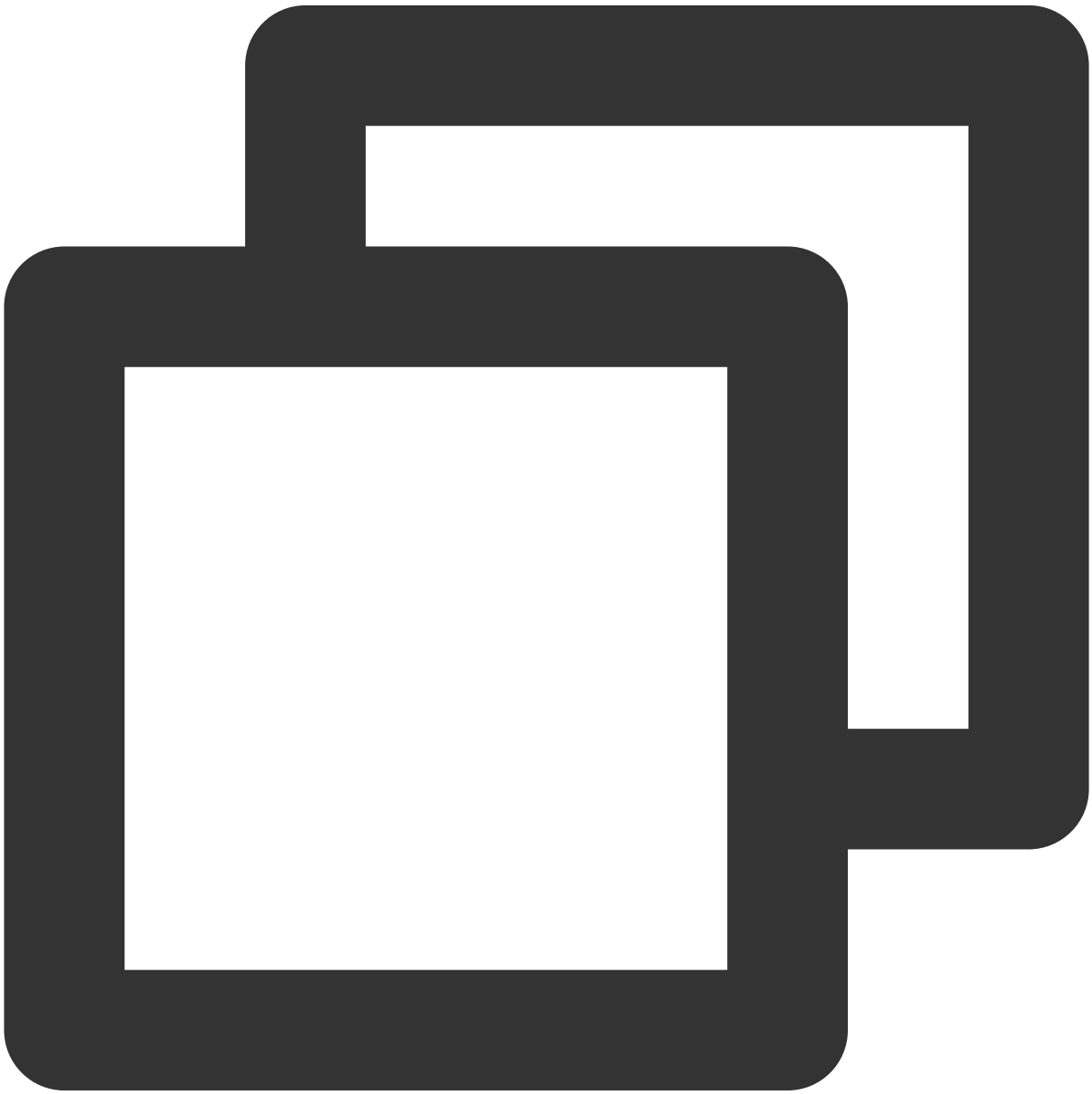
// The `jobid` returned by the `QCloudPostVideoRecognitionRequest` API
request.jobId = @"jobid";
[request setFinishBlock:^(QCloudVideoRecognitionResult * _Nullable result, NSError
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudVideoRecognitionResult` class
}];
```

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```
[[QCloudCOSXMLService defaultCOSXML] GetVideoRecognition:request];
```

Note:

For more complete samples, visit GitHub.



```
let request : QCloudGetVideoRecognitionRequest = QCloudGetVideoRecognitionRequest()

// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";
```

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```
// The `jobid` returned by the `QCloudPostVideoRecognitionRequest` API
request.jobId = "jobid";

request.finishBlock = { (result, error) in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudVideoRecognitionResult` class
}
QCloudCOSXMLService.defaultCOSXML().getVideoRecognition(request);
```

Note:

For more complete samples, visit GitHub.

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Audio Moderation

Last updated：2024-02-29 16:06:22

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for audio moderation.

API	Description
Submitting an audio moderation job	Submits an audio moderation job.
Querying the audio moderation job result	Queries the result of the specified audio moderation job.

Creating a Task

Feature description

This API (`QCloudPostAudioRecognitionRequest`) is used to submit an audio moderation job. You can receive the moderation result by setting the callback address or querying by `JobId` .

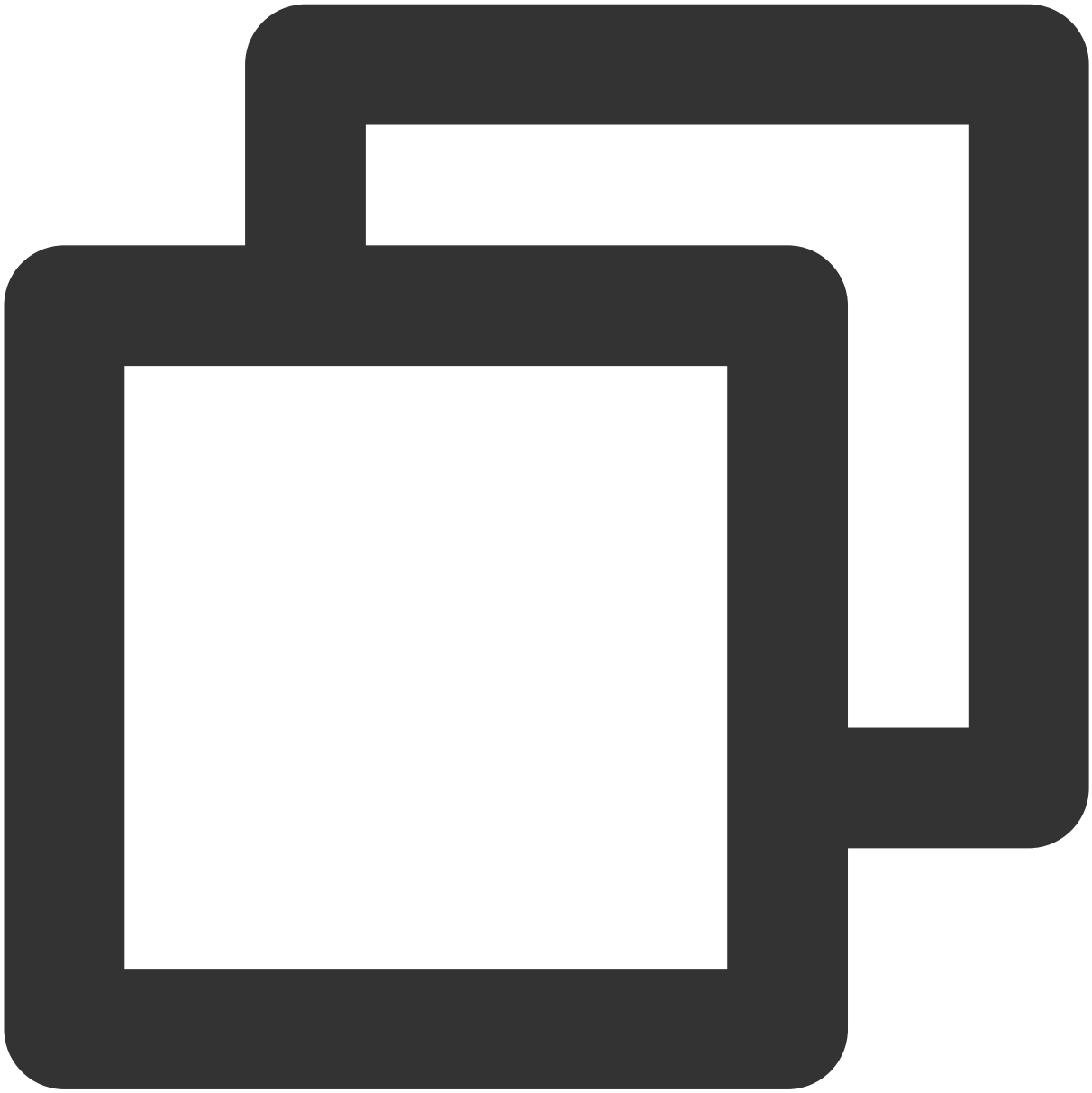
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudPostAudioRecognitionRequest * request = [[QCloudPostAudioRecognitionRequest a

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = @"exampleobject";

// File region
request.regionName = @"regionName";

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";
```

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```
// Moderation type, such as `porn` (pornography), `terrorist` (terrorism), `politic
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionPorn | QCloudRecognitionAds;

request.bizType = BizType;

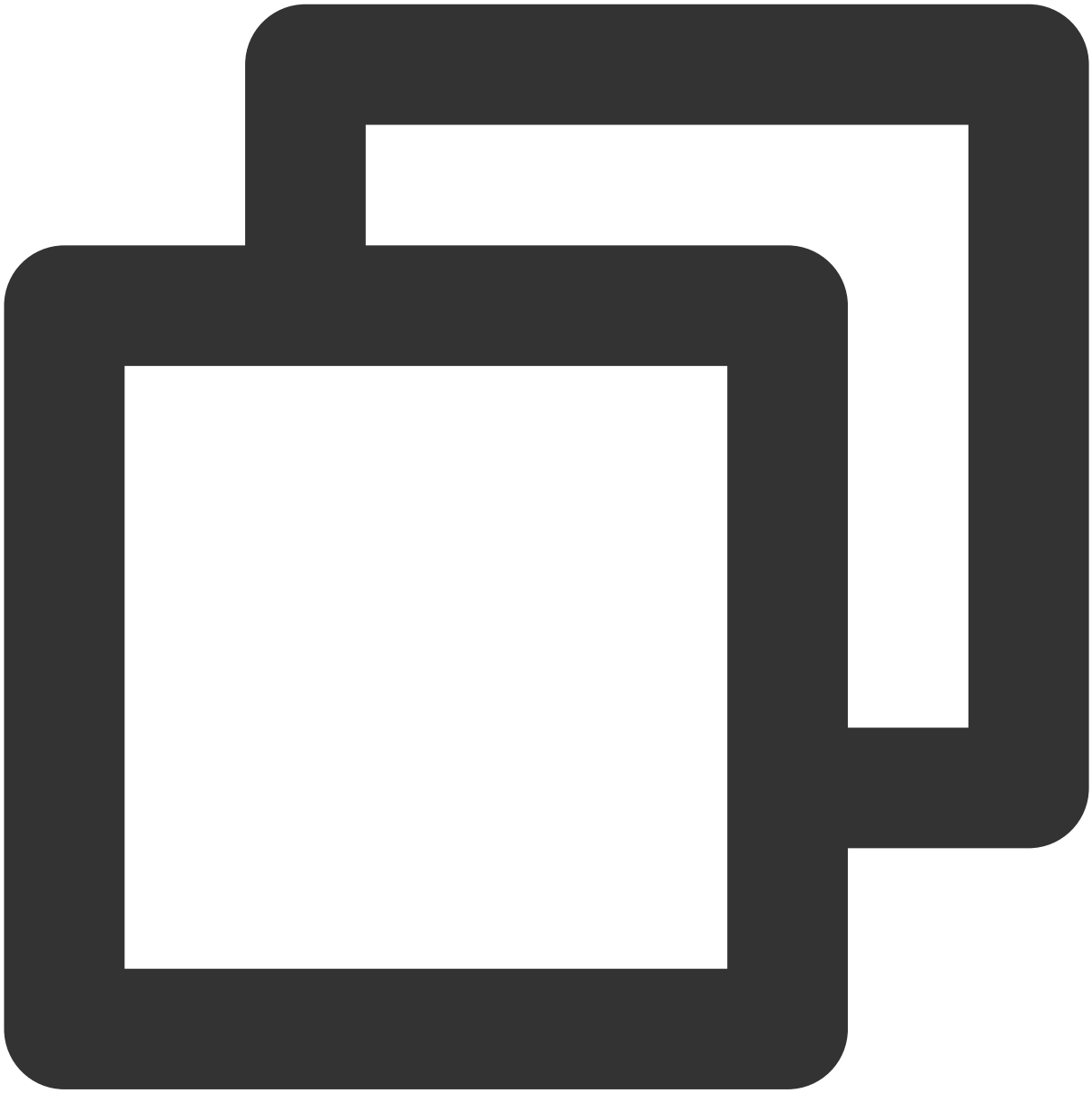
request.finishBlock = ^(QCloudPostAudioRecognitionResult * outputObject, NSError *e
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudPostAudioRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] PostAudioRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift

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```
let request = QCloudPostAudioRecognitionRequest();

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = "exampleobject";

// File region
request.regionName = "regionName";

// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";
```

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```
// Moderation type, such as `porn` (pornography), `terrorist` (terrorism), `politic
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionEnum(rawValue: QCloudRecognitionEnum.porn.raw

request.bizType = BizType;

request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudPostAudioRecognitionResult` class
};
QCloudCOSXMLService.defaultCOSXML().postAudioRecognition(request);
```

Note:

For more complete samples, visit GitHub.

Querying Job

Feature description

This API (`QCloudGetAudioRecognitionRequest`) is used to query the result of the specified audio moderation job by `JobId` .

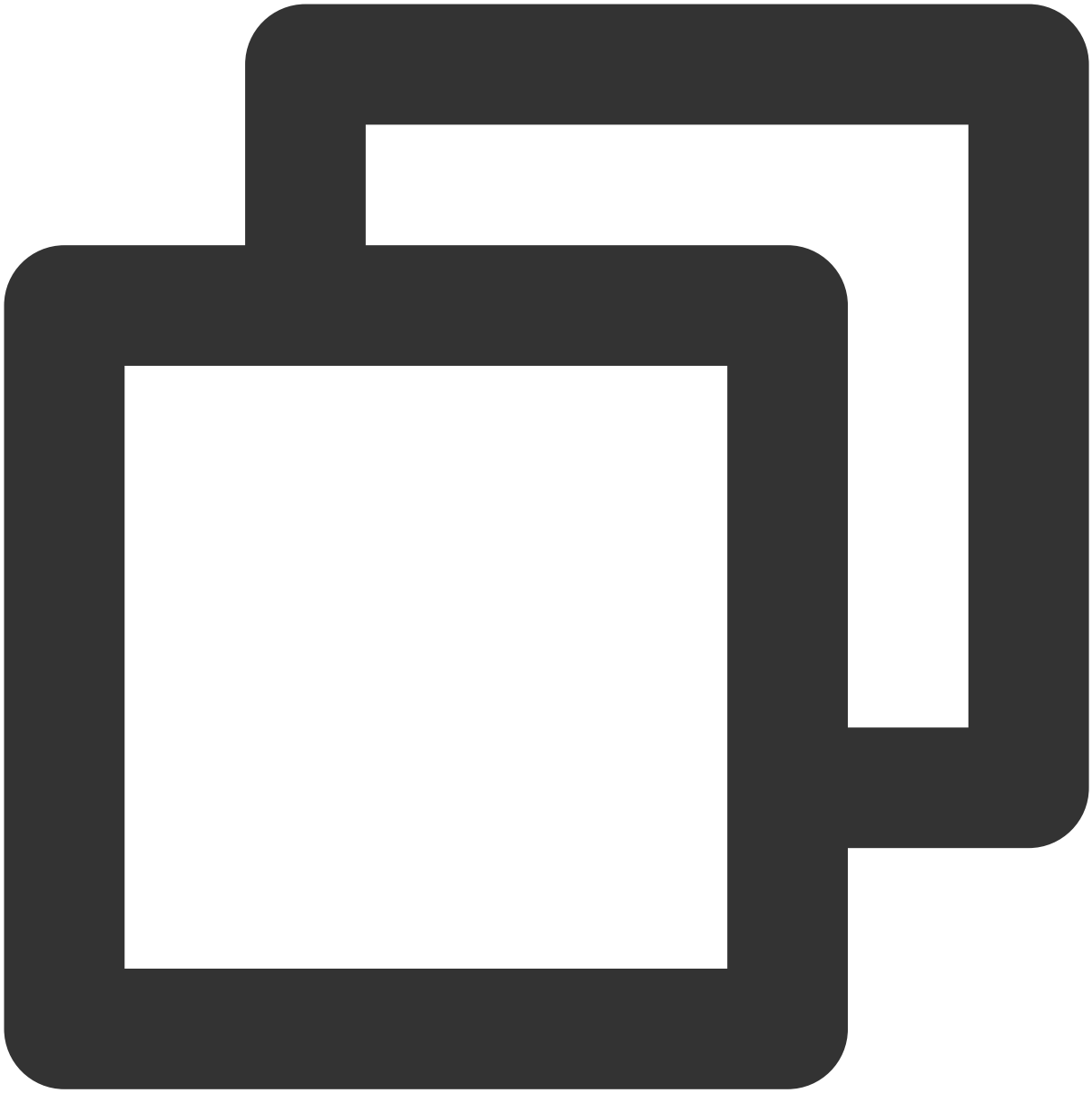
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudGetAudioRecognitionRequest * request = [[QCloudGetAudioRecognitionRequest all

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";

// File region
request.regionName = @"regionName";

// The `jobid` returned by the `QCloudPostAudioRecognitionRequest` API
request.jobId = @"jobid";
```

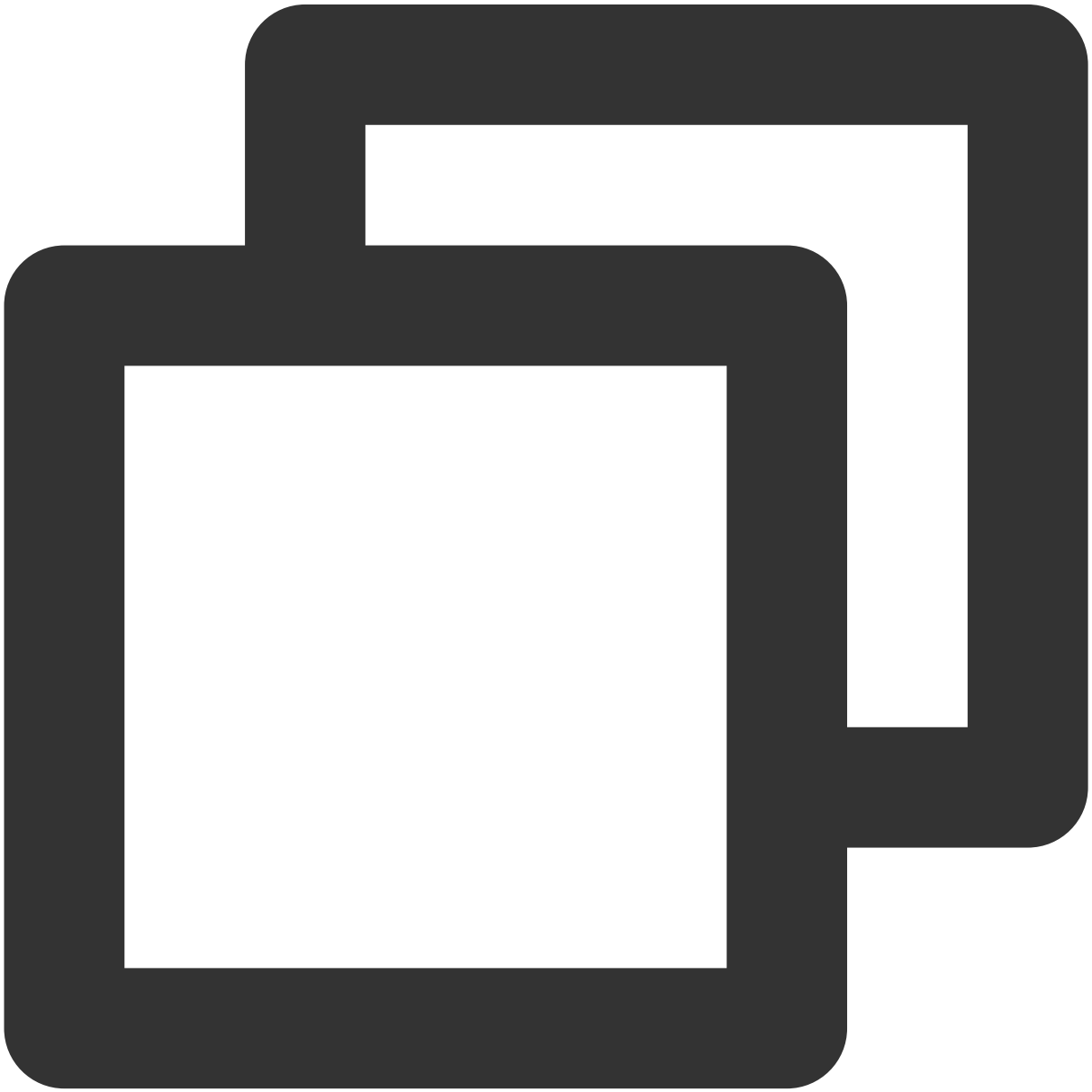
©2013-2022 Tencent Cloud. All rights reserved.

```
request.finishBlock = ^(QCloudAudioRecognitionResult * outputObject, NSError *error
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudAudioRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] GetAudioRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift



```
let request = QCloudGetAudioRecognitionRequest();
```

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```
// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";

// File region
request.regionName = "regionName";

// The `jobid` returned by the `QCloudPostAudioRecognitionRequest` API
request.jobId = "jobid";

request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudAudioRecognitionResult` class
}
QCloudCOSXMLService.defaultCOSXML().getAudioRecognition(request);
```

Note:

For more complete samples, visit GitHub.

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Text Moderation

Last updated：2024-02-29 16:06:23

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for text moderation.

API	Description
Submitting a text moderation job	Submits a text moderation job.
Querying the text moderation job result	Queries the result of the specified text moderation job.

SDK API References

For parameters and method description of all APIs in the SDK, see SDK API Reference.

Creating a Task

Feature description

This API (`QCloudPostTextRecognitionRequest`) is used to submit a text moderation job. You can receive the moderation result by setting the callback address or querying by `JobId` .

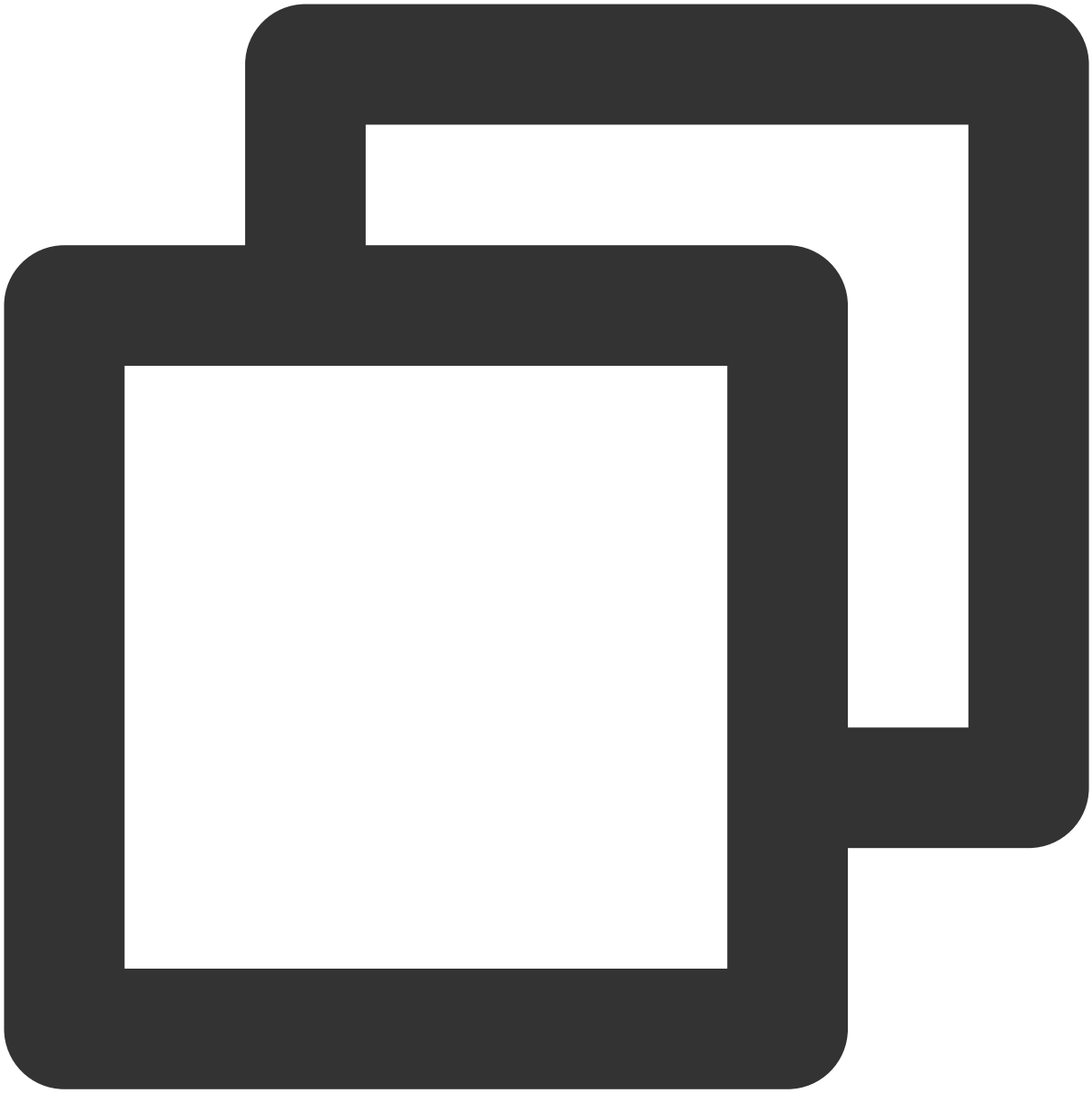
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudPostTextRecognitionRequest * request = [[QCloudPostTextRecognitionRequest all

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = @"exampleobject";

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";

// File region
request.regionName = @"regionName";
```

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```
// Moderation type, such as `porn` (pornography), `terrorist` (terrorism), `politic
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionPorn | QCloudRecognitionAds | QCloudRecogniti

// Moderation policy. If this parameter is not specified, the default policy will b
request.bizType = BizType;

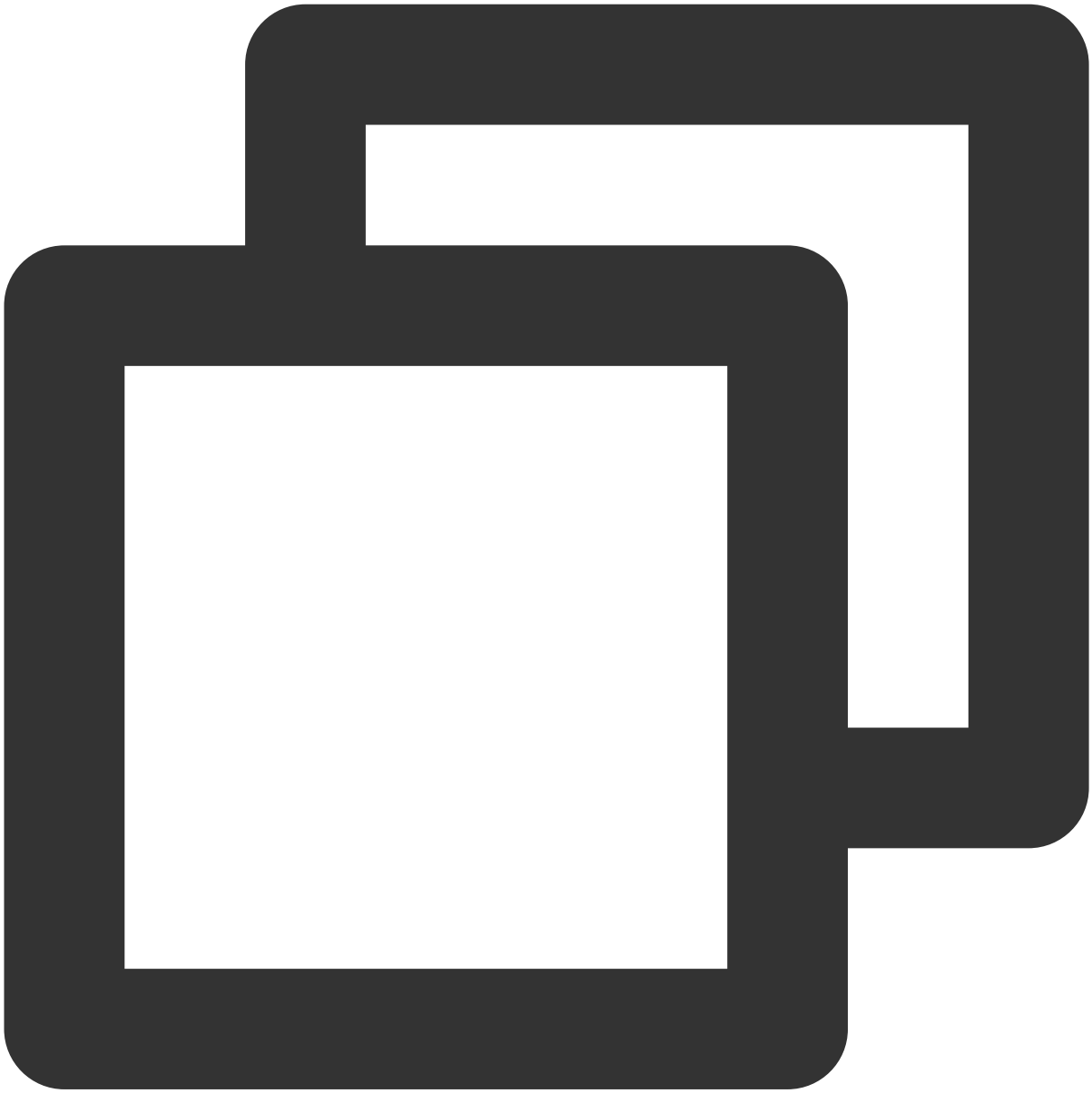
request.finishBlock = ^(QCloudPostTextRecognitionResult * outputObject, NSError *er
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudPostTextRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] PostTextRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift

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```
let request = QCloudPostTextRecognitionRequest();

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = "exampleobject";

// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";

// File region
request.regionName = "regionName";
```

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```
// Moderation type, such as `porn` (pornography), `terrorist` (terrorism), `politic
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionEnum(rawValue: QCloudRecognitionEnum.porn.raw

// Moderation policy. If this parameter is not specified, the default policy will b
request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudPostTextRecognitionResult` class
}
QCloudCOSXMLService.defaultCOSXML().postTextRecognition(request);
```

Note:

For more complete samples, visit GitHub.

Querying Job

Feature description

This API (`QCloudGetTextRecognitionRequest`) is used to query the result of the specified text moderation job by `JobId` .

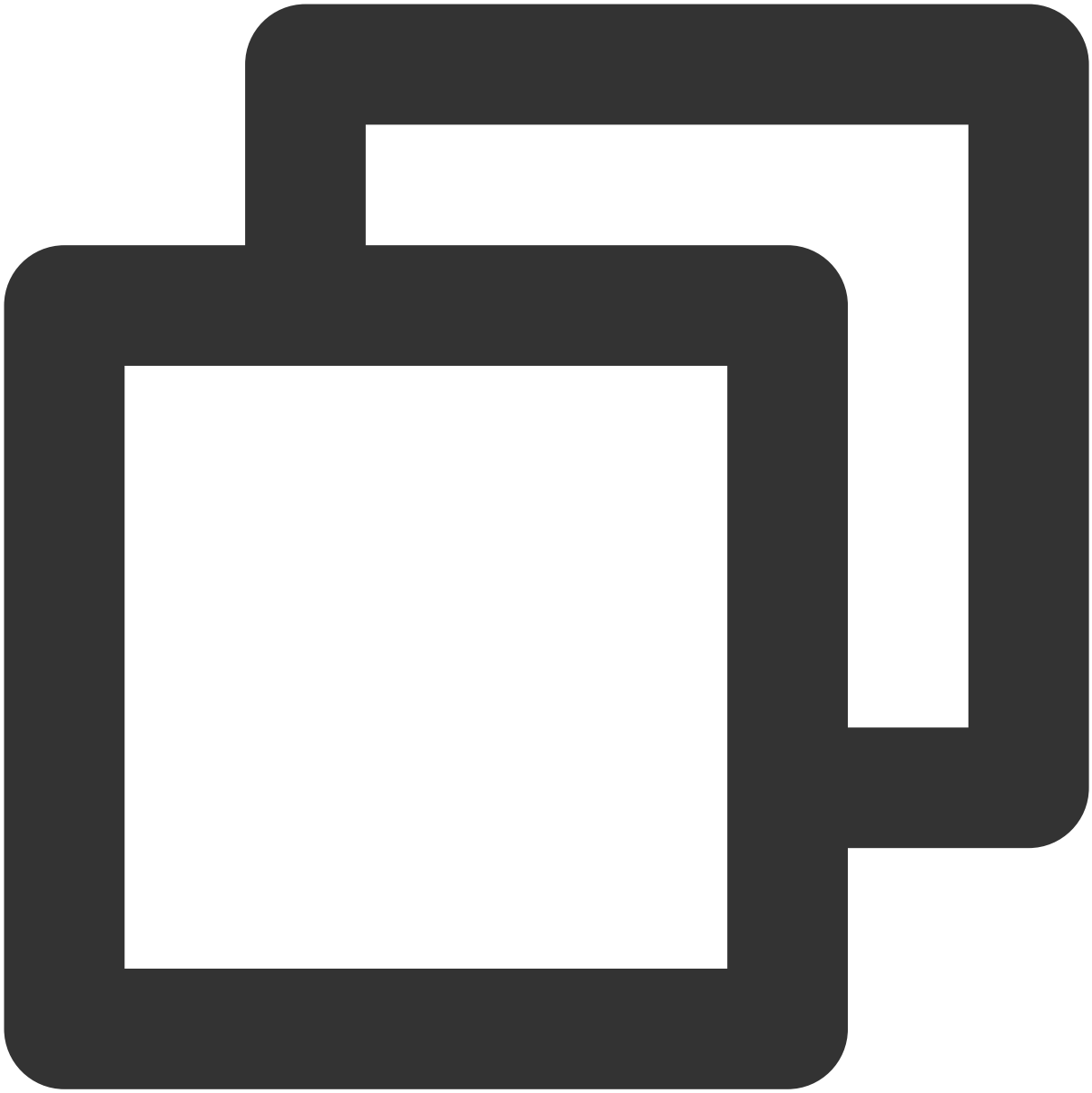
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudGetTextRecognitionRequest * request = [[QCloudGetTextRecognitionRequest alloc

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";

// File region
request.regionName = @"regionName";

// The `jobid` returned by the `QCloudPostTextRecognitionRequest` API
request.jobId = @"jobid";
```

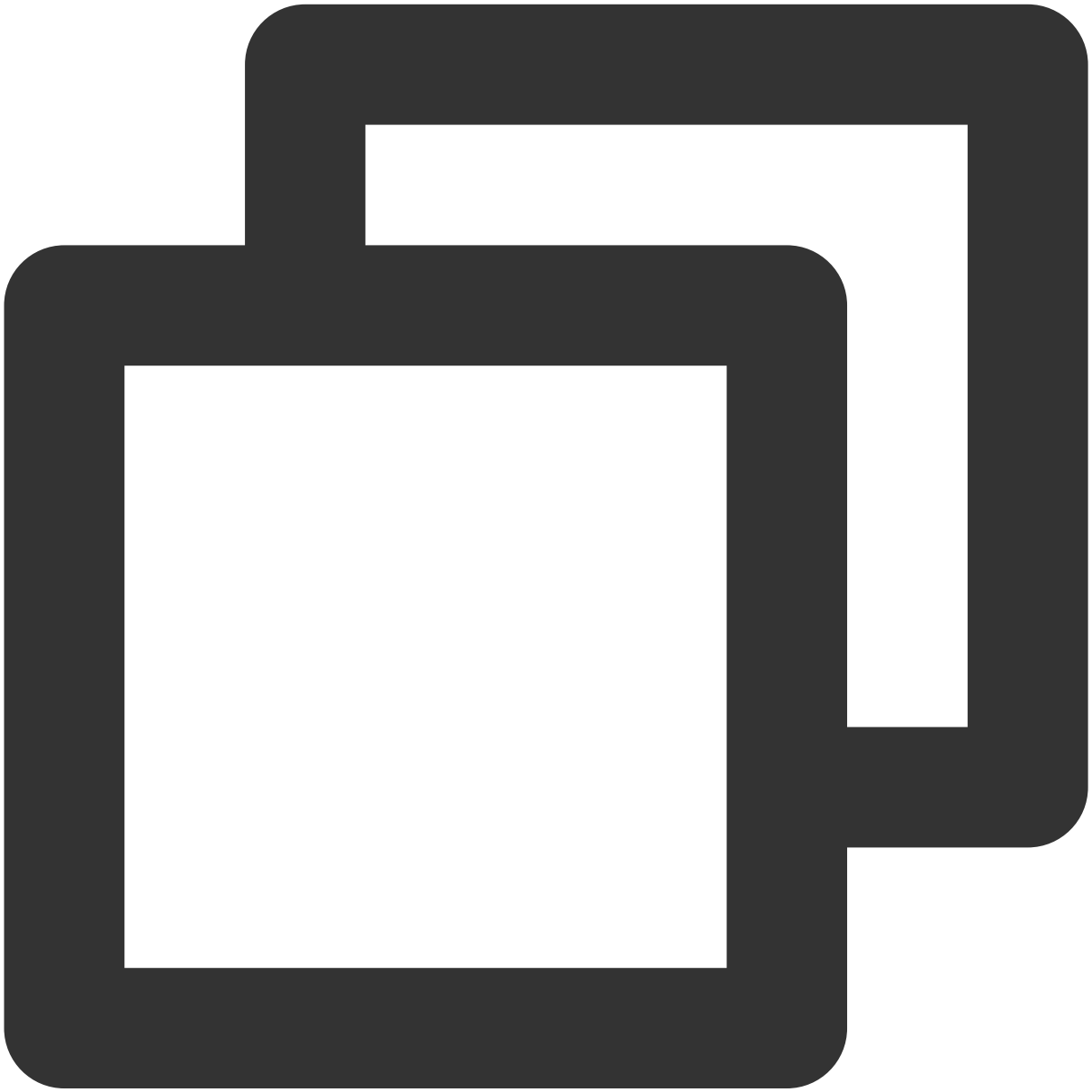
©2013-2022 Tencent Cloud. All rights reserved.

```
request.finishBlock = ^(QCloudTextRecognitionResult * outputObject, NSError *error)
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudTextRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] GetTextRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift



```
let request = QCloudGetTextRecognitionRequest();
```

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```
// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";

// File region
request.regionName = "regionName";

// The `jobid` returned by the `QCloudPostTextRecognitionRequest` API
request.jobId = "jobid";

request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudTextRecognitionResult` class
};
QCloudCOSXMLService.defaultCOSXML().getTextRecognition(request);
```

Note:

For more complete samples, visit GitHub.

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File Moderation

Last updated：2024-02-29 16:06:23

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for file moderation.

API	Description
Submitting a file moderation job	Submits a file moderation job.
Querying the file moderation job result	Queries the result of the specified file moderation job.

SDK API References

For parameters and method description of all APIs in the SDK, see SDK API Reference.

Creating a Task

Feature description

This API (`QCloudPostDocRecognitionRequest`) is used to submit a file moderation job. You can receive the moderation result by setting the callback address or querying by `JobId` .

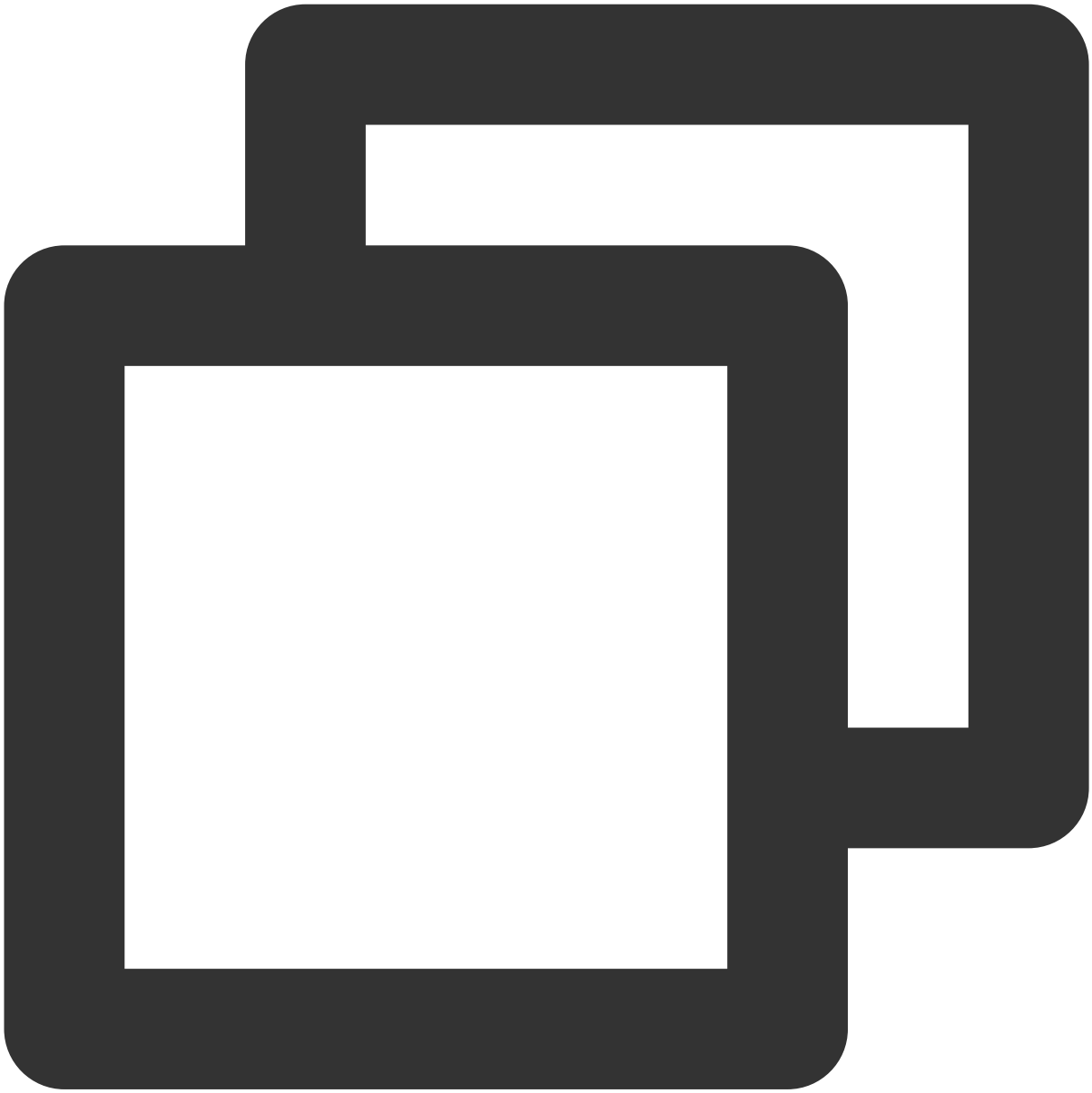
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudPostDocRecognitionRequest * request = [[QCloudPostDocRecognitionRequest alloc

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = @"exampleobject";

// File region
request.regionName = @"regionName";

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";
```

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```
request.type = @"doc";

// Moderation type, such as `porn` (pornography), `terrorist` (terrorism), `politic
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionPorn | QCloudRecognitionAds | QCloudRecogniti

// Moderation policy. If this parameter is not specified, the default policy will b
request.bizType = BizType;

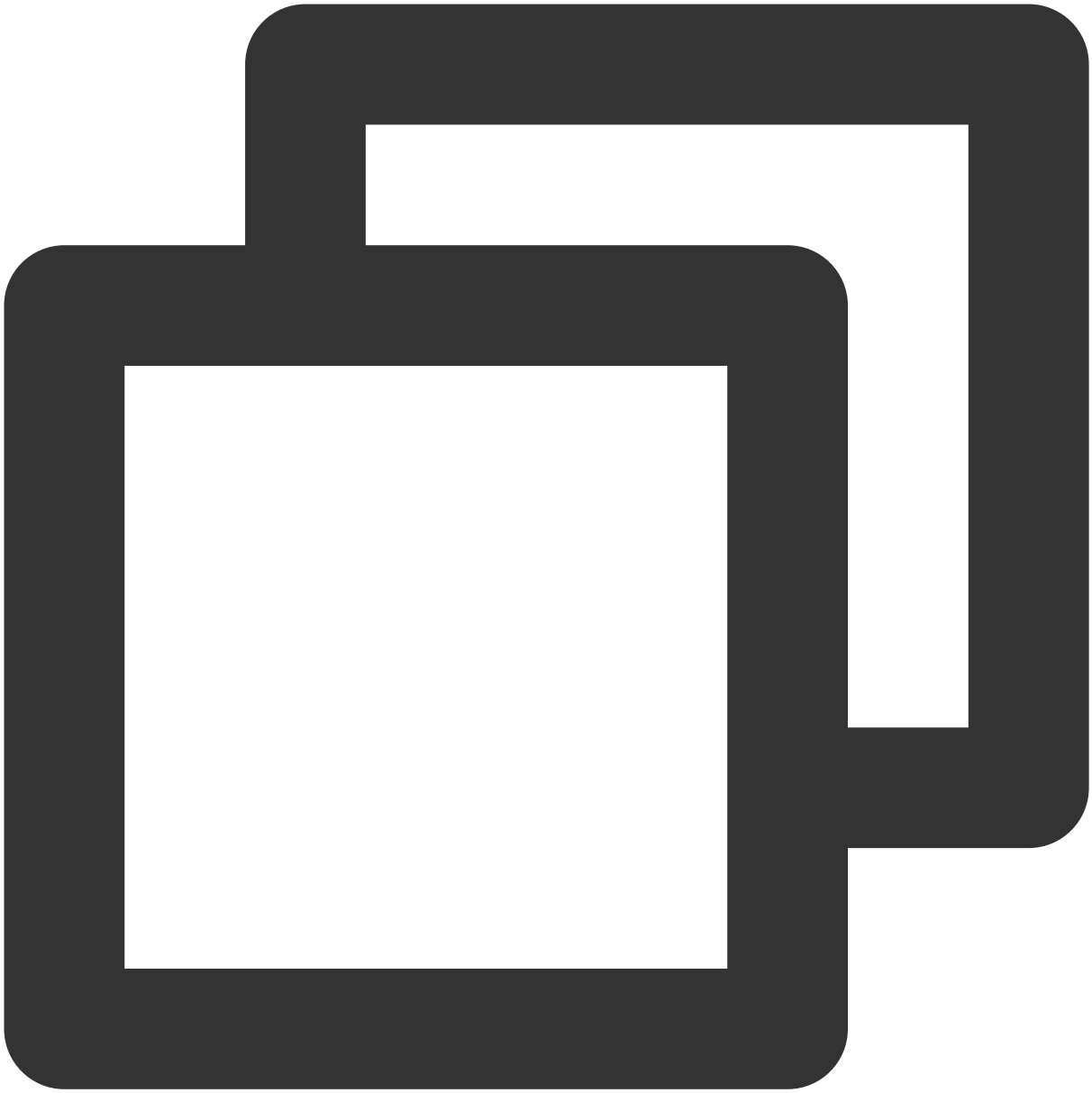
request.finishBlock = ^(QCloudPostDocRecognitionResult * outputObject, NSError *err
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudPostDocRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] PostDocRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift

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```
let request = QCloudPostDocRecognitionRequest();

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.object = "exampleobject";

// File region
request.regionName = "regionName";

// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";
```

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```
request.type = "doc";

// Moderation type, such as `porn` (pornography), `terrorist` (terrorism), `politic
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionEnum(rawValue: QCloudRecognitionEnum.porn.raw

// Moderation policy. If this parameter is not specified, the default policy will b
request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudPostDocRecognitionResult` class
}
QCloudCOSXMLService.defaultCOSXML().postDocRecognition(request);
```

Note:

For more complete samples, visit GitHub.

Querying Job

Feature description

This API (`QCloudGetDocRecognitionRequest`) is used to query the result of the specified file moderation job by `JobId` .

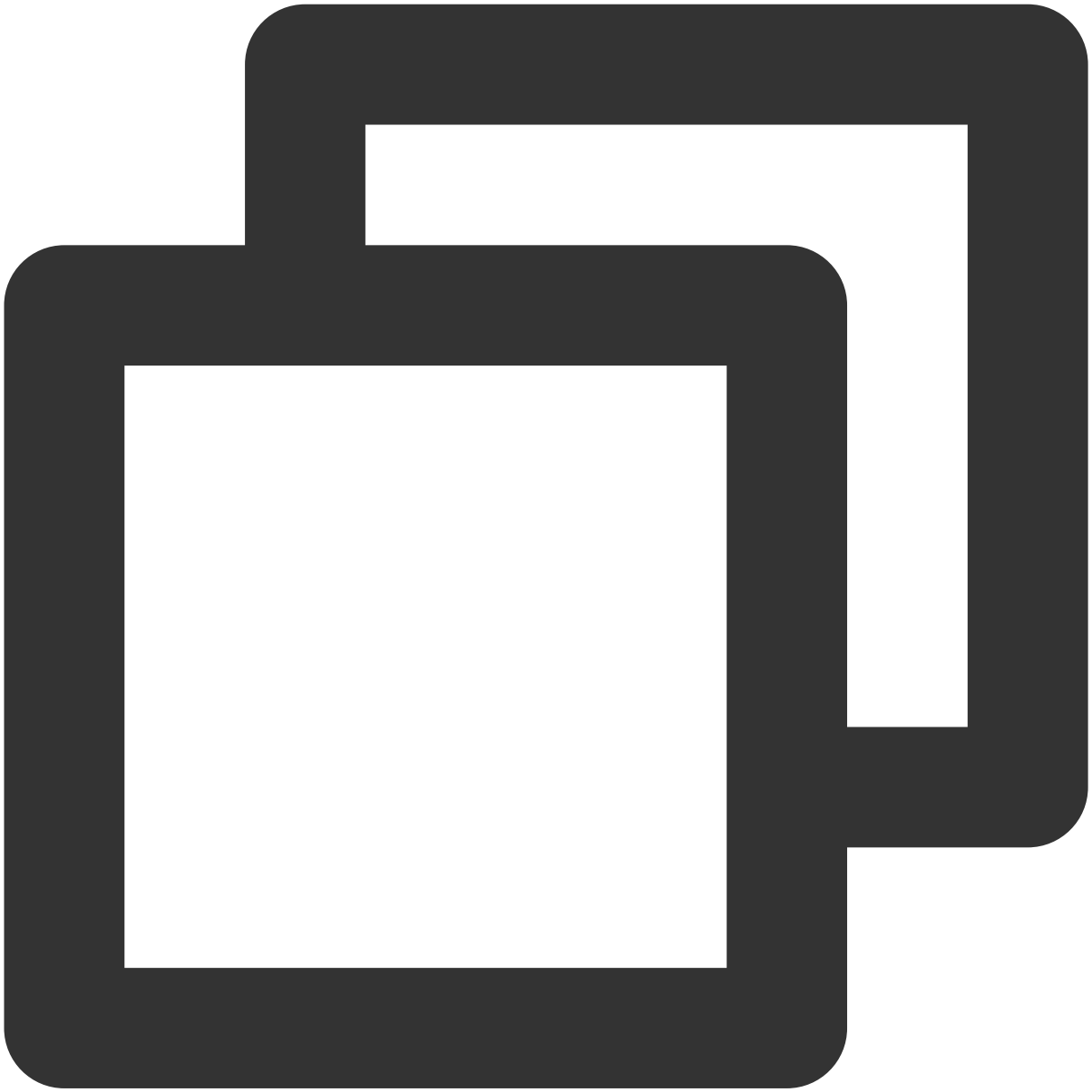
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudGetDocRecognitionRequest * request = [[QCloudGetDocRecognitionRequest alloc]i

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";

// File region
request.regionName = @"regionName";

// The `jobid` returned by the `QCloudPostDocRecognitionRequest` API
request.jobId = @"jobid";
```

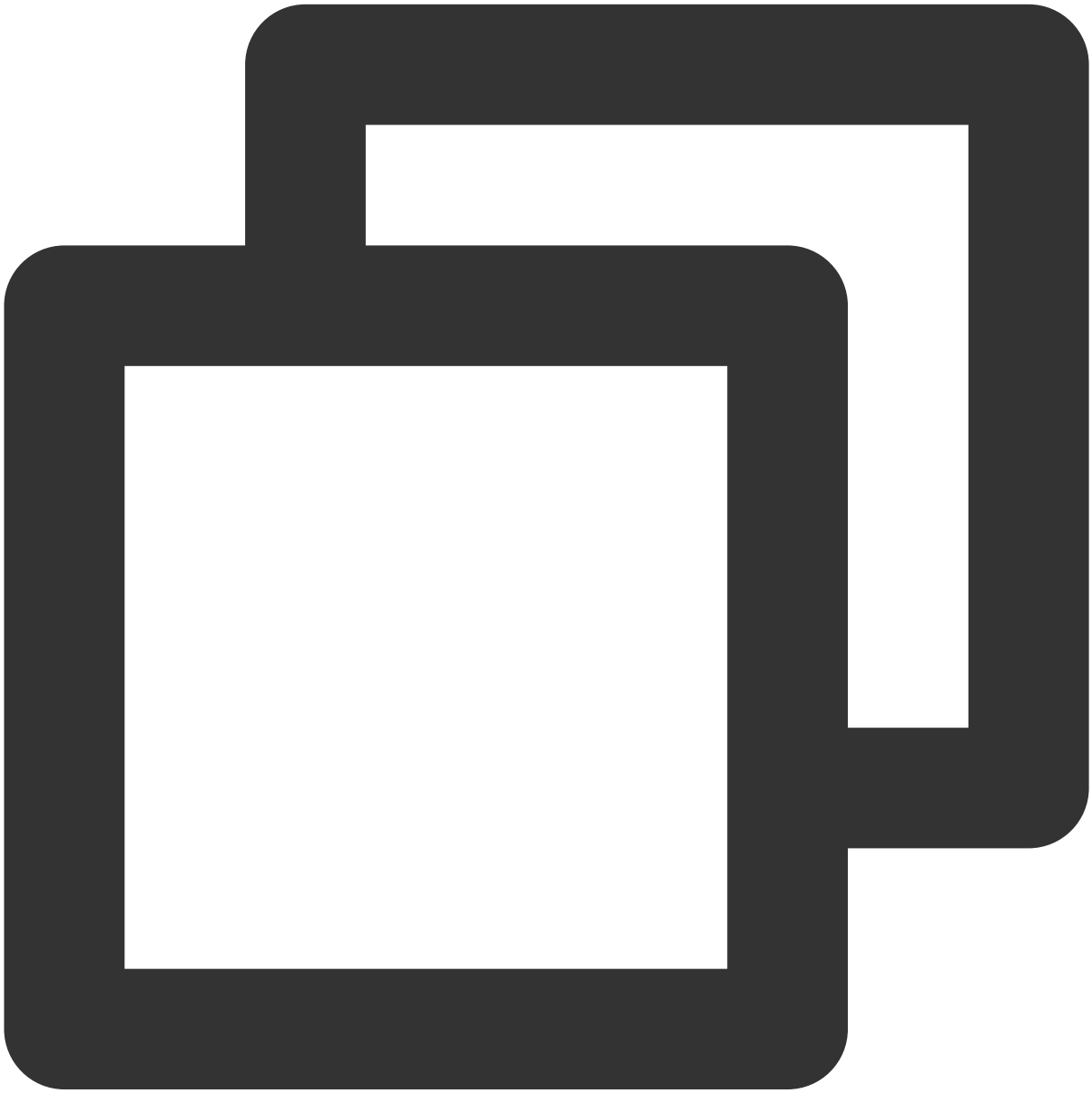
©2013-2022 Tencent Cloud. All rights reserved.

```
request.finishBlock = ^(QCloudDocRecognitionResult * outputObject, NSError *error)
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudDocRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] GetDocRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift



```
let request = QCloudGetDocRecognitionRequest();
```

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```
// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";

// File region
request.regionName = "regionName";

// The `jobid` returned by the `QCloudPostDocRecognitionRequest` API
request.jobId = "jobid";

request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudDocRecognitionResult` class
};
QCloudCOSXMLService.defaultCOSXML().getDocRecognition(request);
```

Note:

For more complete samples, visit GitHub.

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Webpage Moderation

Last updated：2024-02-29 16:06:23

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for webpage moderation.

API	Description
Submitting a webpage moderation job	Submits a webpage moderation job.
Querying the webpage moderation job result	Queries the result of the specified webpage moderation job.

SDK API References

For parameters and method description of all APIs in the SDK, see SDK API Reference.

Creating a Task

Feature description

This API (`QCloudPostWebRecognitionRequest`) is used to submit a webpage moderation job. The job can be queried by `JobId` .

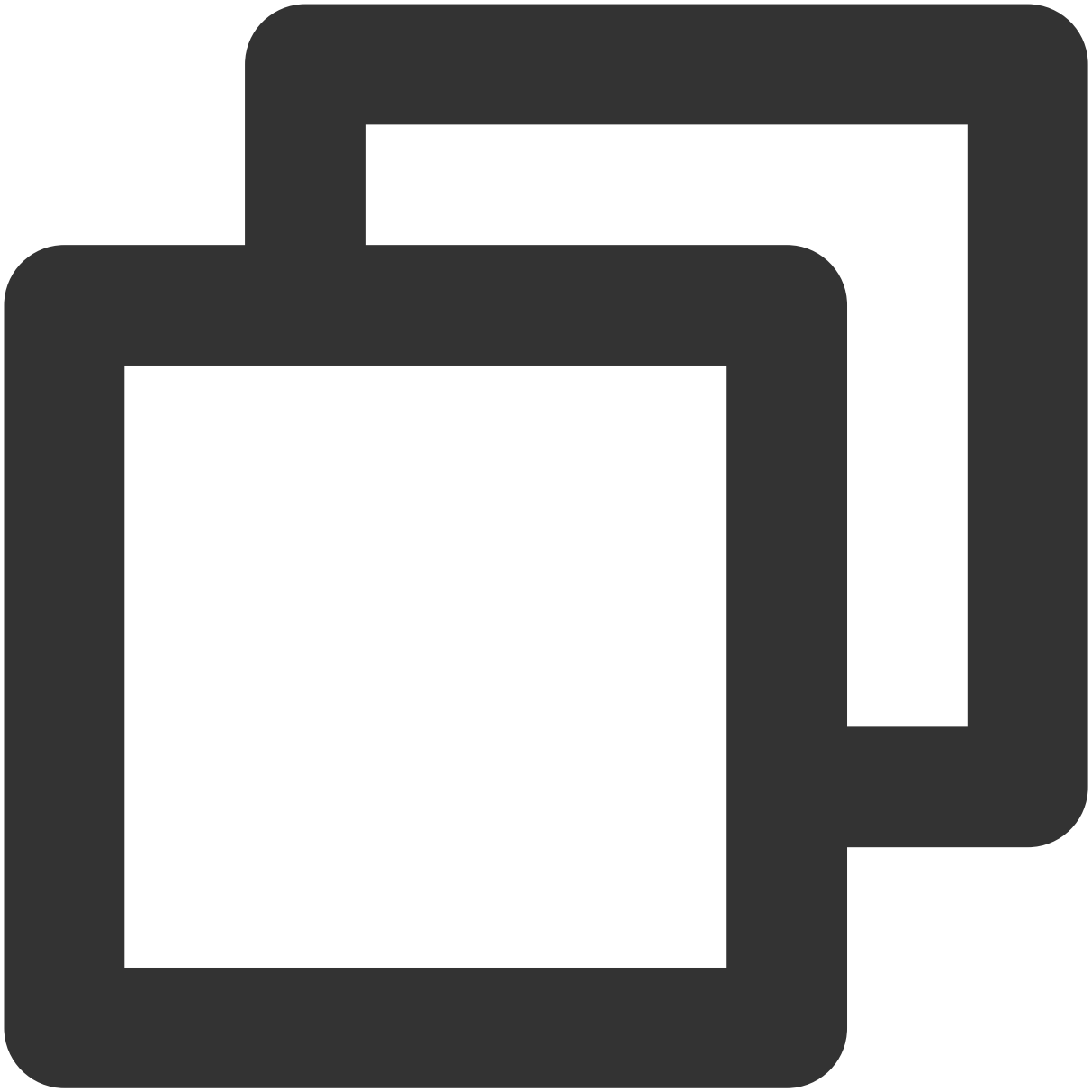
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudPostWebRecognitionRequest * request = [[QCloudPostWebRecognitionRequest alloc

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";

// File region
request.regionName = @"regionName";

request.url = @"www.****.com";
// Moderation type, such as `porn` (pornography), `terrorist` (terrorism), `politic
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
```

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```
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionPorn | QCloudRecognitionAds | QCloudRecogniti

// Moderation policy. If this parameter is not specified, the default policy will b
request.bizType = BizType;

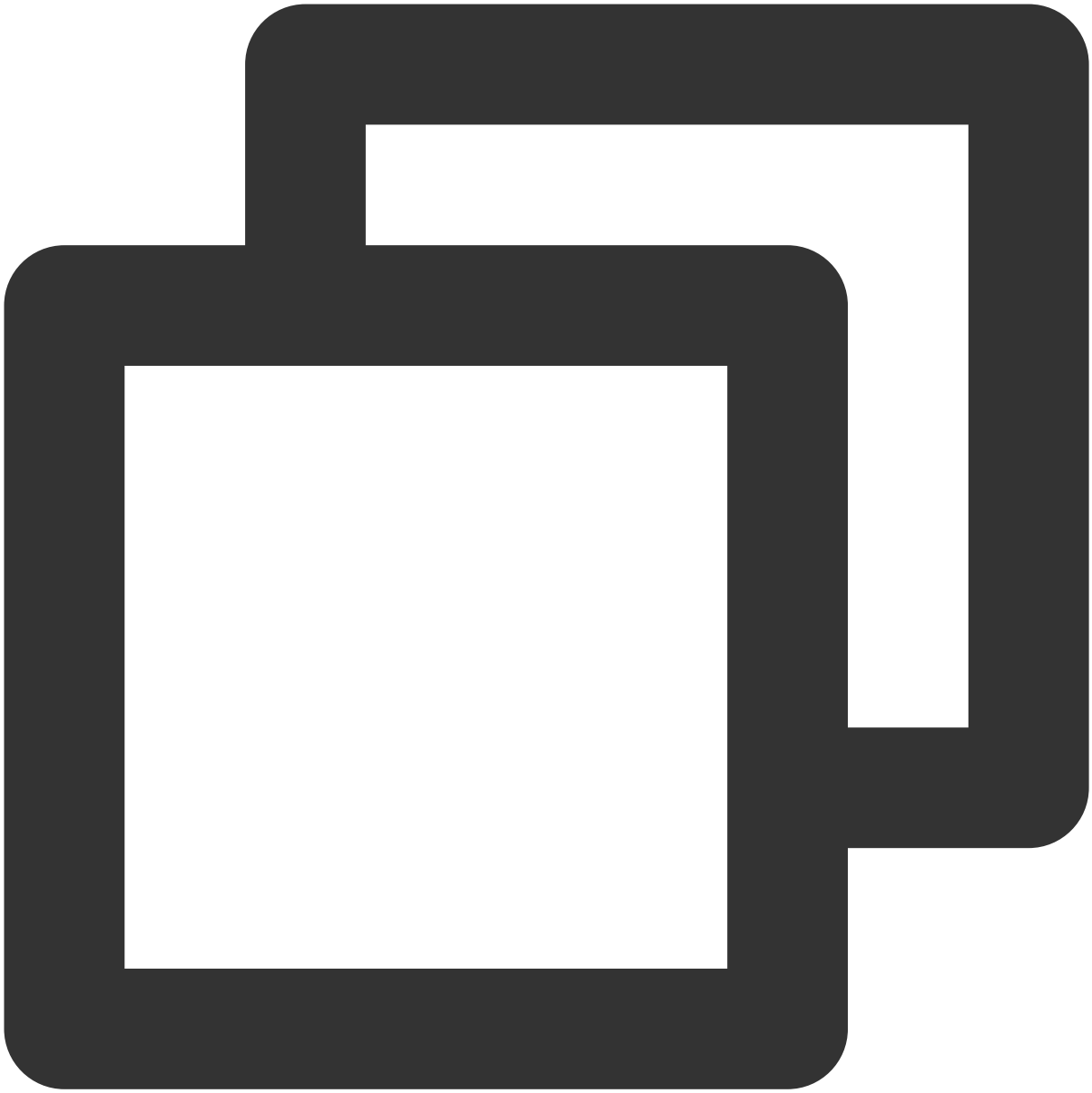
request.finishBlock = ^(QCloudPostWebRecognitionResult * outputObject, NSError *err
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudPostTextRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] PostWebRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift

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```
let request = QCloudPostWebRecognitionRequest();

// Object key, i.e., the full path of a COS object. If the object is in a directory
request.url = "www.***.com";

// File region
request.regionName = "regionName";

// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";
```

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```
// Moderation type, such as `porn` (pornography), `terrorist` (terrorism), `politic
// You can select multiple types; for example, `detect-type=porn,ads` indicates to
// You can use multiple parameters together, such as `QCloudRecognitionPorn | QClou
request.detectType = QCloudRecognitionEnum(rawValue: QCloudRecognitionEnum.porn.raw

// Moderation policy. If this parameter is not specified, the default policy will b
request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudPostTextRecognitionResult` class
}
QCloudCOSXMLService.defaultCOSXML().postWebRecognition(request);
```

Note:

For more complete samples, visit GitHub.

Querying Job

Feature description

This API (`QCloudGetWebRecognitionRequest`) is used to query the result of the specified webpage moderation job by `JobId` .

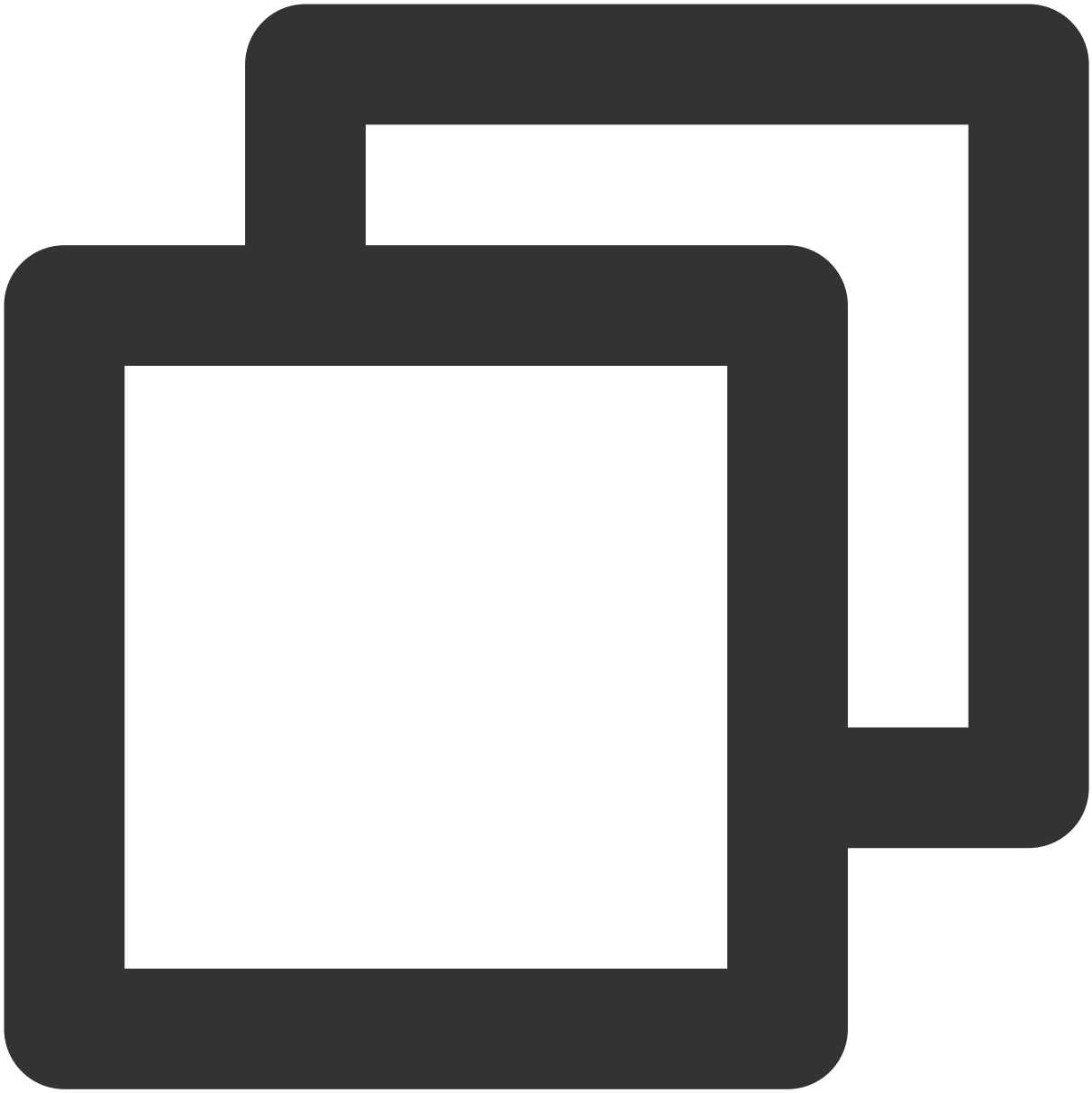
Note:

The COS iOS SDK version must be at least v6.0.9.

Sample request

Objective-C

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```
QCloudGetWebRecognitionRequest * request = [[QCloudGetWebRecognitionRequest alloc]i

// Bucket name in the format of BucketName-APPID
request.bucket = @"examplebucket-1250000000";

// File region
request.regionName = @"regionName";

// The `jobid` returned by the `QCloudPostWebRecognitionRequest` API
request.jobId = @"jobid";
```

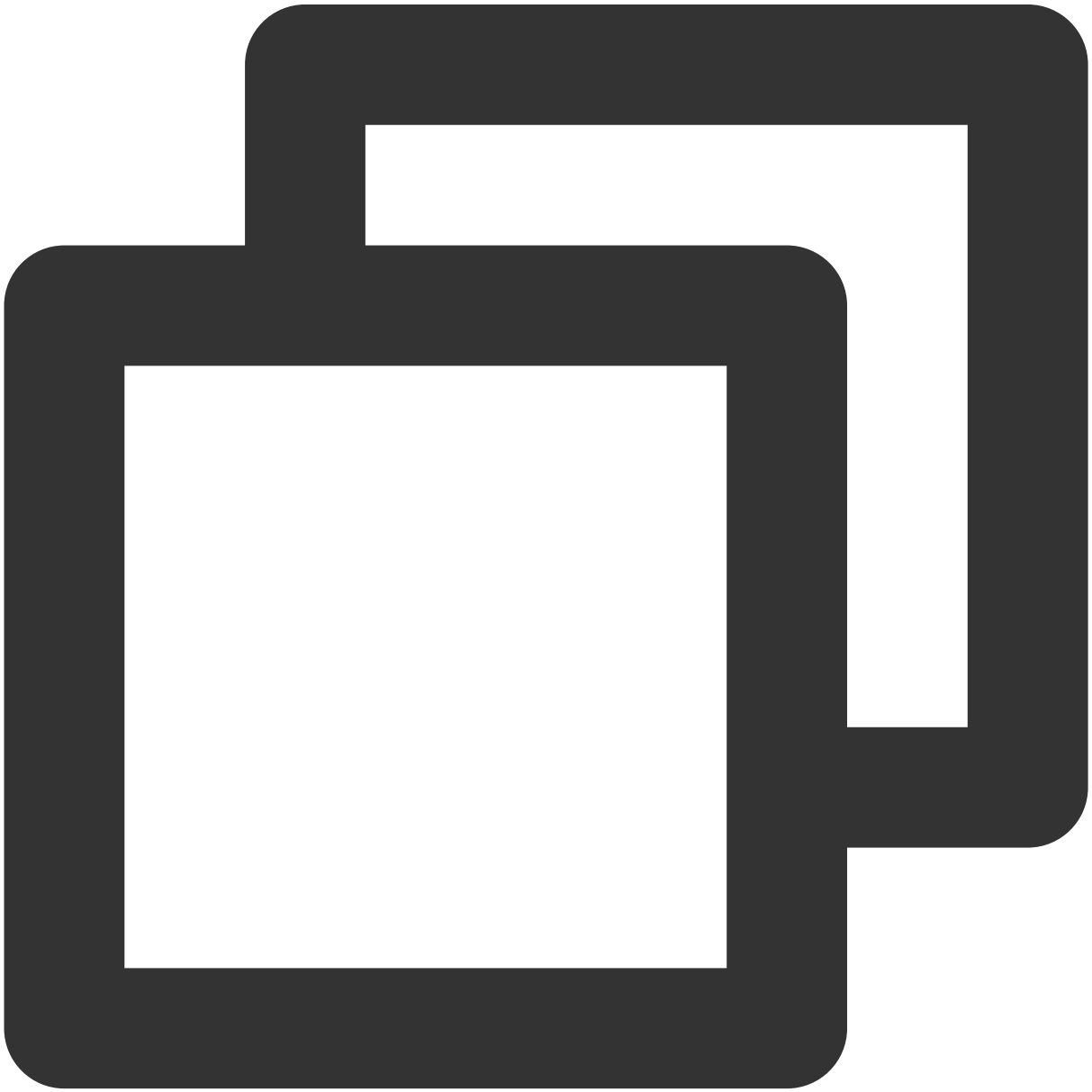
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```
request.finishBlock = ^(QCloudWebRecognitionResult * outputObject, NSError *error)
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudWebRecognitionResult` class
};
[[QCloudCOSXMLService defaultCOSXML] GetWebRecognition:request];
```

Note:

For more complete samples, visit GitHub.

Swift



```
let request = QCloudGetWebRecognitionRequest();
```

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```
// Bucket name in the format of BucketName-APPID
request.bucket = "examplebucket-1250000000";

// File region
request.regionName = "regionName";

// The `jobid` returned by the `QCloudPostWebRecognitionRequest` API
request.jobId = "jobid";

request.setFinish { outputObject, error in
    // The moderation result `outputObject` contains the job ID used for query. For
    // `QCloudWebRecognitionResult` class
};
QCloudCOSXMLService.defaultCOSXML().getWebRecognition(request);
```

Note:

For more complete samples, visit GitHub.

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Java SDK
Getting Started

Last updated：2024-02-29 17:31:27

Overview

CI's media processing and file preview APIs are integrated into the COS XML Java SDK.

Download and Installation

Relevant resources

Download the COS XML Java SDK source code here.
Download the XML Java SDK here.
Download the demo here.
For all the code samples, visit GitHub.

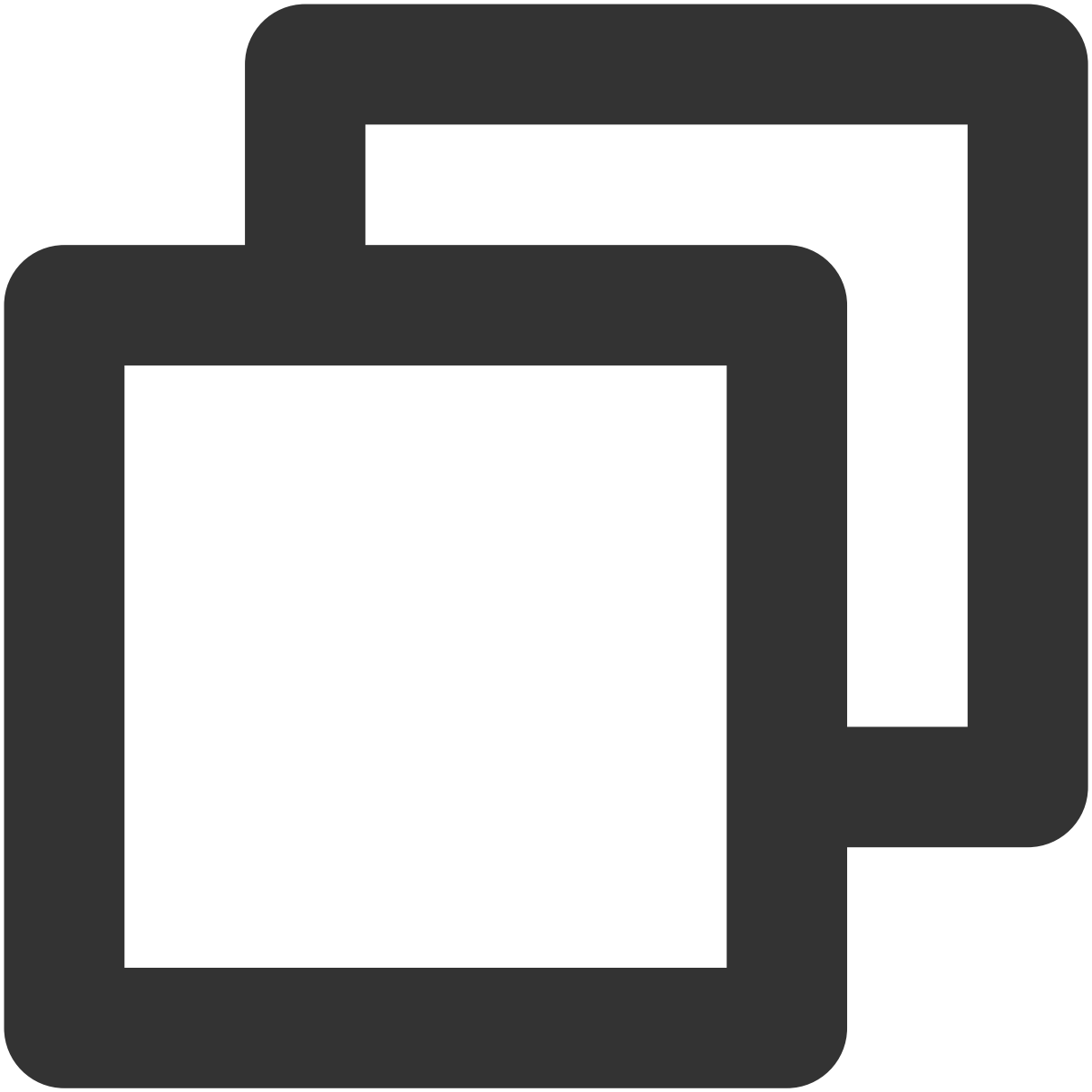
Environmental dependencies

The SDK supports JDK v1.8 and later.
For the JDK installation, see Java Installation and Configuration.
Note
For the definitions of terms such as `SecretId`, `SecretKey`, and bucket, see Introduction.
You can find common classes for the COS Java SDK in the following packages:
The classes related to client configuration are in the `com.qcloud.cos.*` package.
The classes related to permissions are in the `com.qcloud.cos.auth.*` sub-package.
The classes related to exceptions are in the `com.qcloud.cos.exception.*` sub-package.
The classes related to requests are in the `com.qcloud.cos.model.*` sub-package.
The classes related to regions are in the `com.qcloud.cos.region.*` sub-package.
The classes related to advanced APIs are in the `com.qcloud.cos.transfer.*` sub-package.

Installing SDK

You can install the Java SDK using Maven or source code:
Using Maven
Add required dependencies to the pom.xml file of your Maven project as follows:

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```
<dependency>
          <groupId>com.qcloud</groupId>
          <artifactId>cos_api</artifactId>
          <version>5.6.133</version>
</dependency>
```

Note

Dependency coordinates may not be on the latest version. Click here to get the latest version.

Using source code

Download the source code from GitHub or here, and import it using Maven. For example, to import it into Eclipse,

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select **File** > **Import** > **Maven** > **Existing Maven Projects**.

Uninstalling SDK

Uninstall the SDK by removing the POM dependencies or source code.

Directions

The section below describes how to use the Java SDK to perform basic operations, such as initializing a client, creating a bucket, querying a bucket list, uploading an object, querying an object list, downloading an object, or deleting an object. CI's media processing APIs are integrated into the COS XML Java SDK, where you can perform operations related to templates, jobs, workflows, and queues.

Importing classes

The COS Java SDK package is named `com.qcloud.cos.*` . You can import the classes required for running your program through your IDE, such as Eclipse and IntelliJ.

Initializing the client

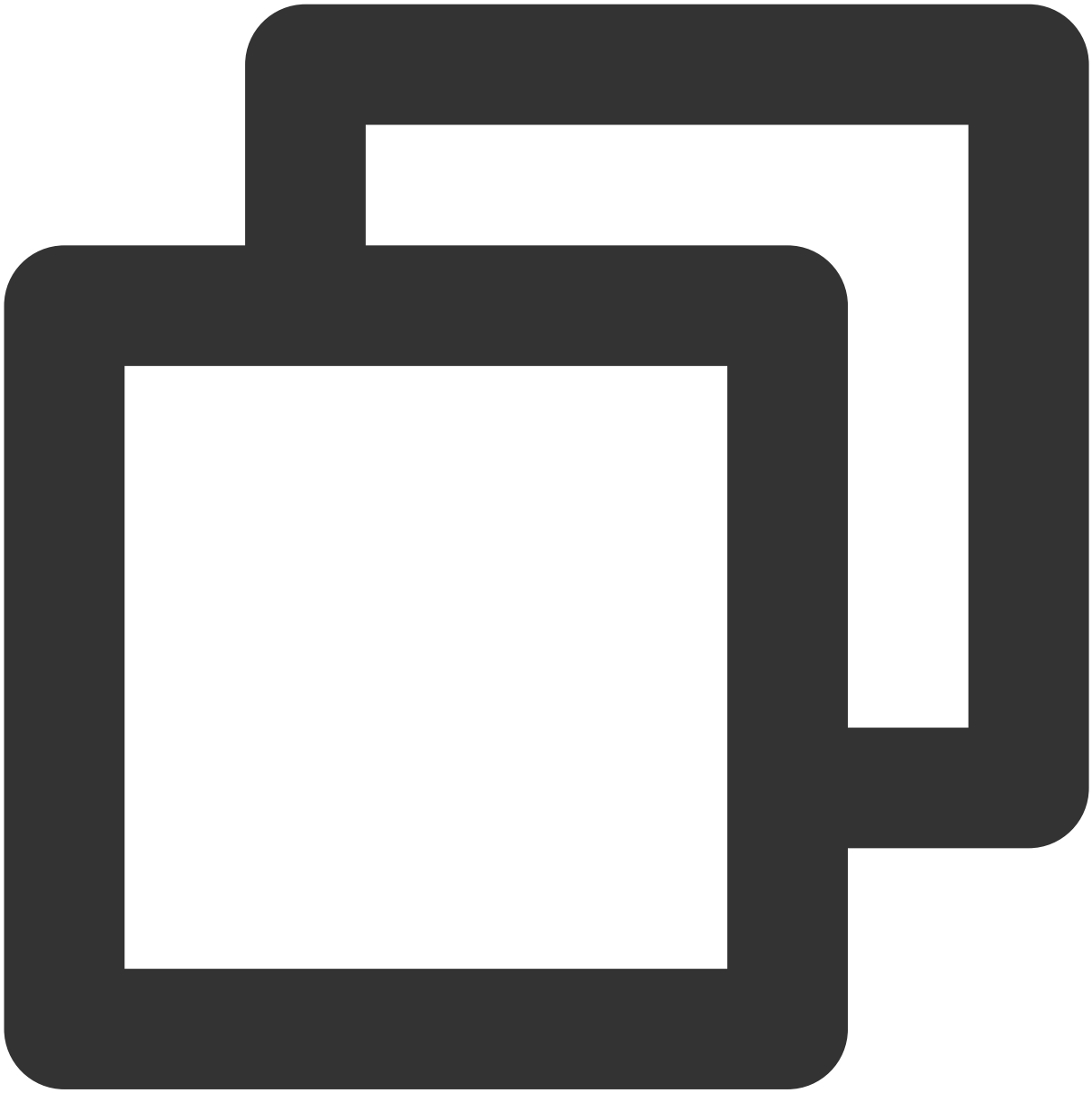
Before making any request for COS services, you need to generate a COSClient class object for calling the COS APIs.

Note

COSClient is a thread-safe class that allows multi-thread access to the same instance. Because an instance maintains a connection pool internally, creating multiple instances may lead to resource exhaustion. **Make sure that there is only one instance in the program lifecycle**, and call the shutdown method to turn off the instance when it is no longer needed. If you need to create a new instance, shut down the previous instance first.

If you use a permanent key to initialize COSClient, you need to obtain your SecretId and SecretKey on the API Key Management page in the CAM Console. A permanent key can be used for most application scenarios. Below is a sample:

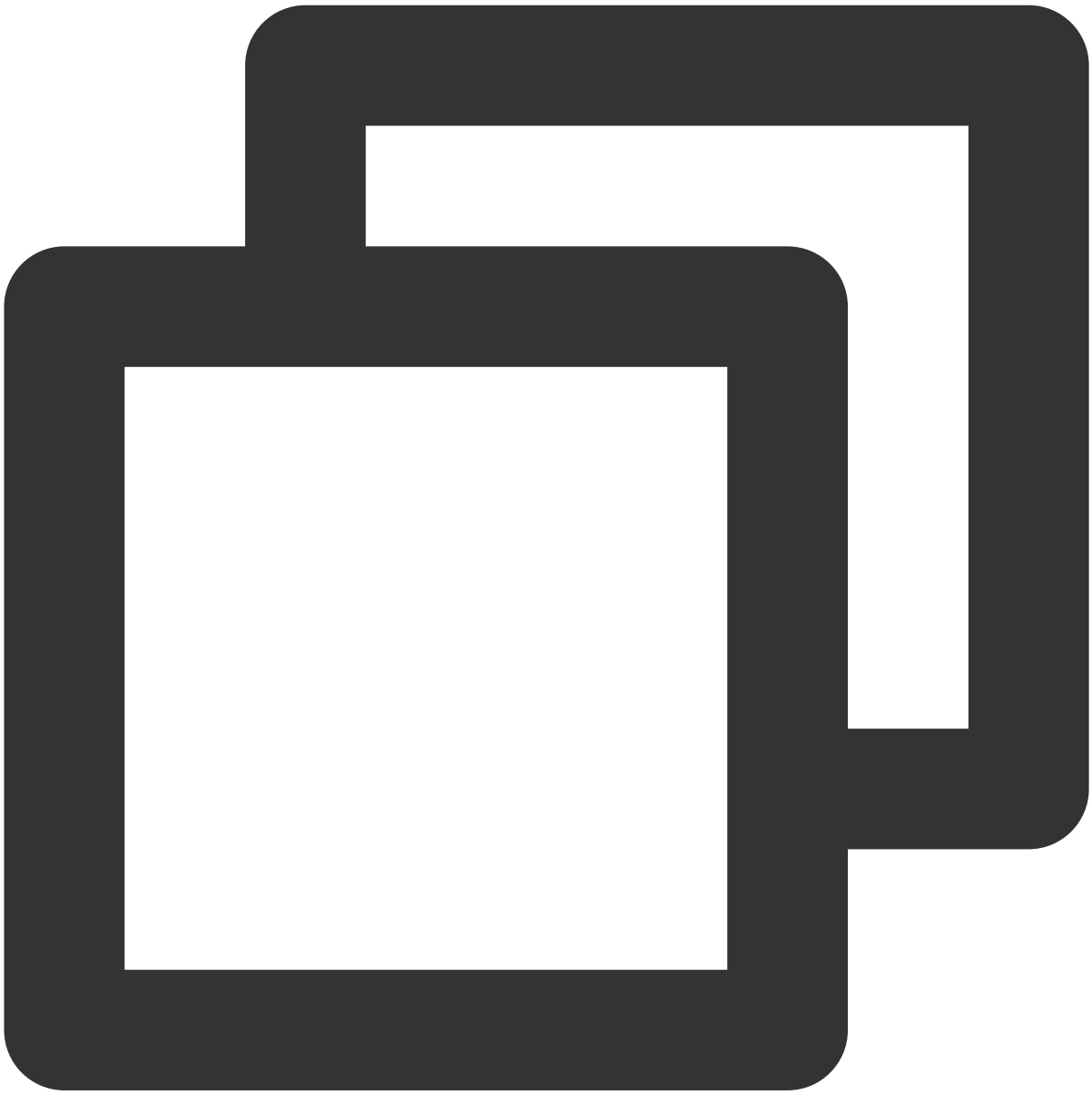
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```
// 1. Initialize the user credentials (secretId, secretKey).
String secretId = "COS_SECRETID";
String secretKey = "COS_SECRETKEY";
COSCredentials cred = new BasicCOSCredentials(secretId, secretKey);
// 2. Set the bucket region. For abbreviations of COS regions, see https://intl.clo
// `clientConfig` contains the set methods to set region, HTTPS (HTTP by default),
Region region = new Region("COS_REGION");
ClientConfig clientConfig = new ClientConfig(region);
// 3. Generate a COS client.
COSClient cosClient = new COSClient(cred, clientConfig);
```

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You can also use a temporary key to initialize the COSClient. For more information on how to generate and use a temporary key, see Generating and Using Temporary Keys. An example is shown below:



```
// 1. Pass in the obtained temporary key (tmpSecretId, tmpSecretKey, sessionToken).
String tmpSecretId = "COS_SECRETID";
String tmpSecretKey = "COS_SECRETKEY";
String sessionToken = "COS_TOKEN";
BasicSessionCredentials cred = new BasicSessionCredentials(tmpSecretId, tmpSecretKe
// 2. Set the bucket region. For abbreviations of COS regions, see https://intl.clo
// `clientConfig` contains the set methods to set region, HTTPS (HTTP by default),
Region region = new Region("COS_REGION");
```

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```
ClientConfig clientConfig = new ClientConfig(region);
// 3. Generate a COS client
COSClient cosClient = new COSClient(cred, clientConfig);
```

The ClientConfig class is a configuration class containing the following main members:

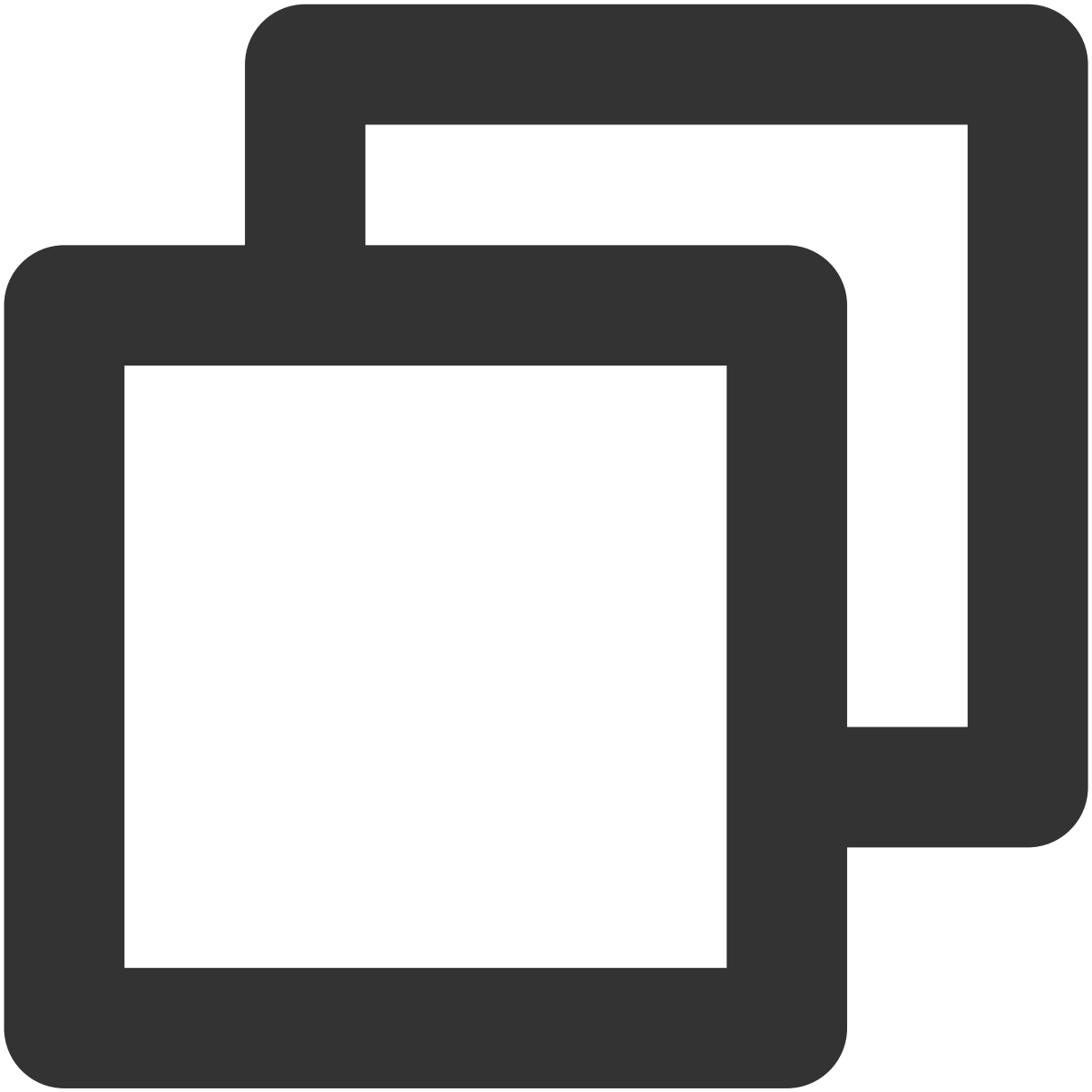
Member Name	Setting Method	Description	Type
region	Constructor or set method	Bucket region. For the abbreviations of COS regions, see Regions and Access Domain Names.	Region
httpProtocol	Set method	The protocol used by the request. By default, HTTP is used to interact with COS.	HttpProtocol
signExpired	Set method	Validity period (in seconds) of the request signature. Default value: `3600` .	int
connectionTimeout	Set method	Timeout period in milliseconds for connection with COS. Default value: `30000` .	int
socketTimeout	Set method	Timeout period in milliseconds for the client to read data. Default value: `30000` .	int
httpProxyIp	Set method	Proxy server IP	String
httpProxyPort	Set method	Proxy server port	int

Querying the list of buckets with media processing enabled

This API is used to query buckets with media processing enabled under the current account.

Sample request

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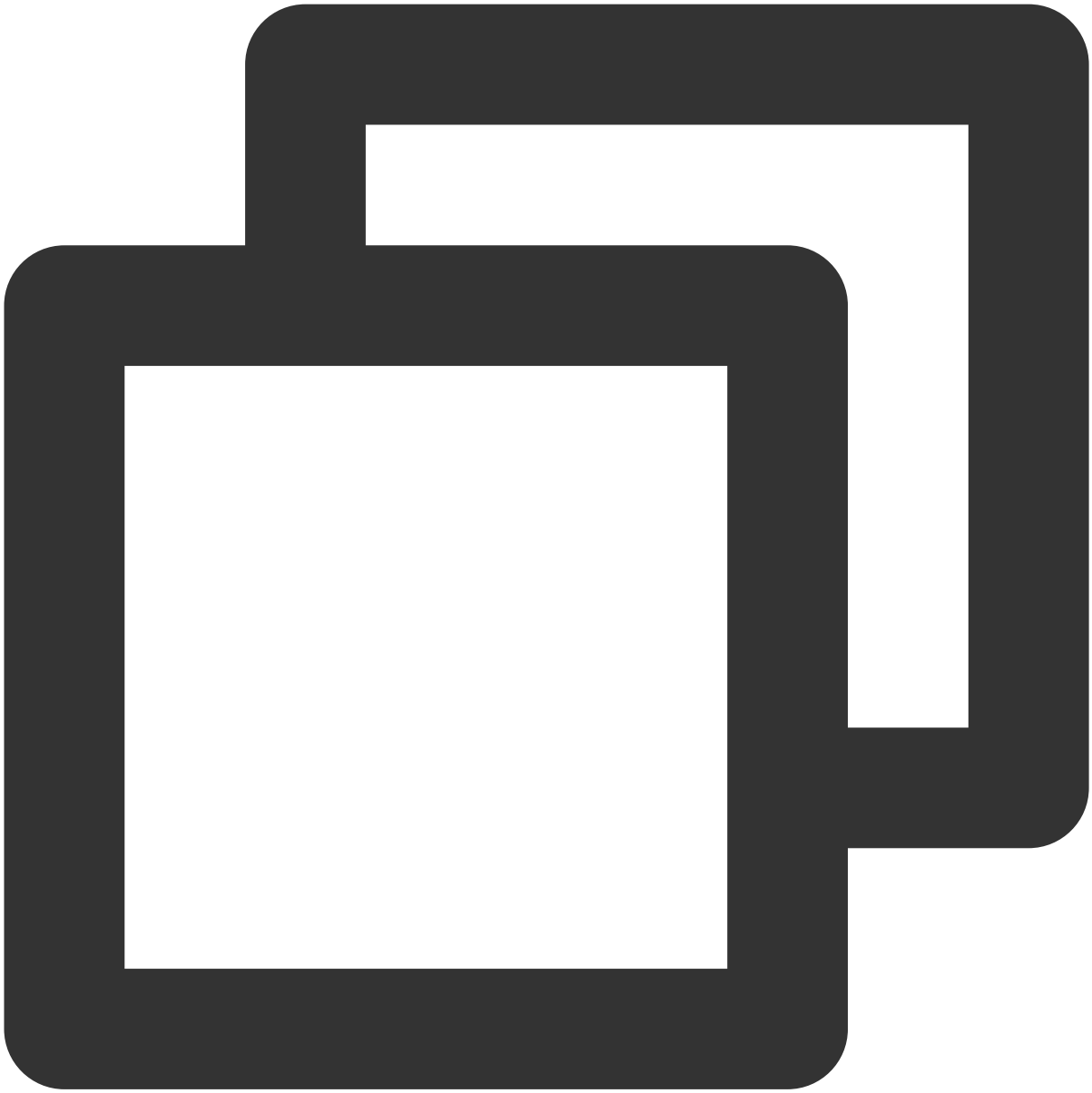
```
 //1. Create a template request object
MediaBucketRequest request = new MediaBucketRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
//3. Call the API to get the bucket response object
MediaBucketResponse response = client.describeMediaBuckets(request);
```

Creating a job

This API is used to create a media processing job.

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Sample request



```
//1. Create a job request object
MediaJobsRequest request = new MediaJobsRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setTag("Transcode");
request.getInput().setObject("1.mp4");
request.getOperation().setTemplateId("t0e09a9456d4124542b1f0e44d501*****");
request.getOperation().getOutput().setBucket("examplebucket-1250000000");
request.getOperation().getOutput().setRegion("ap-chongqing");
```

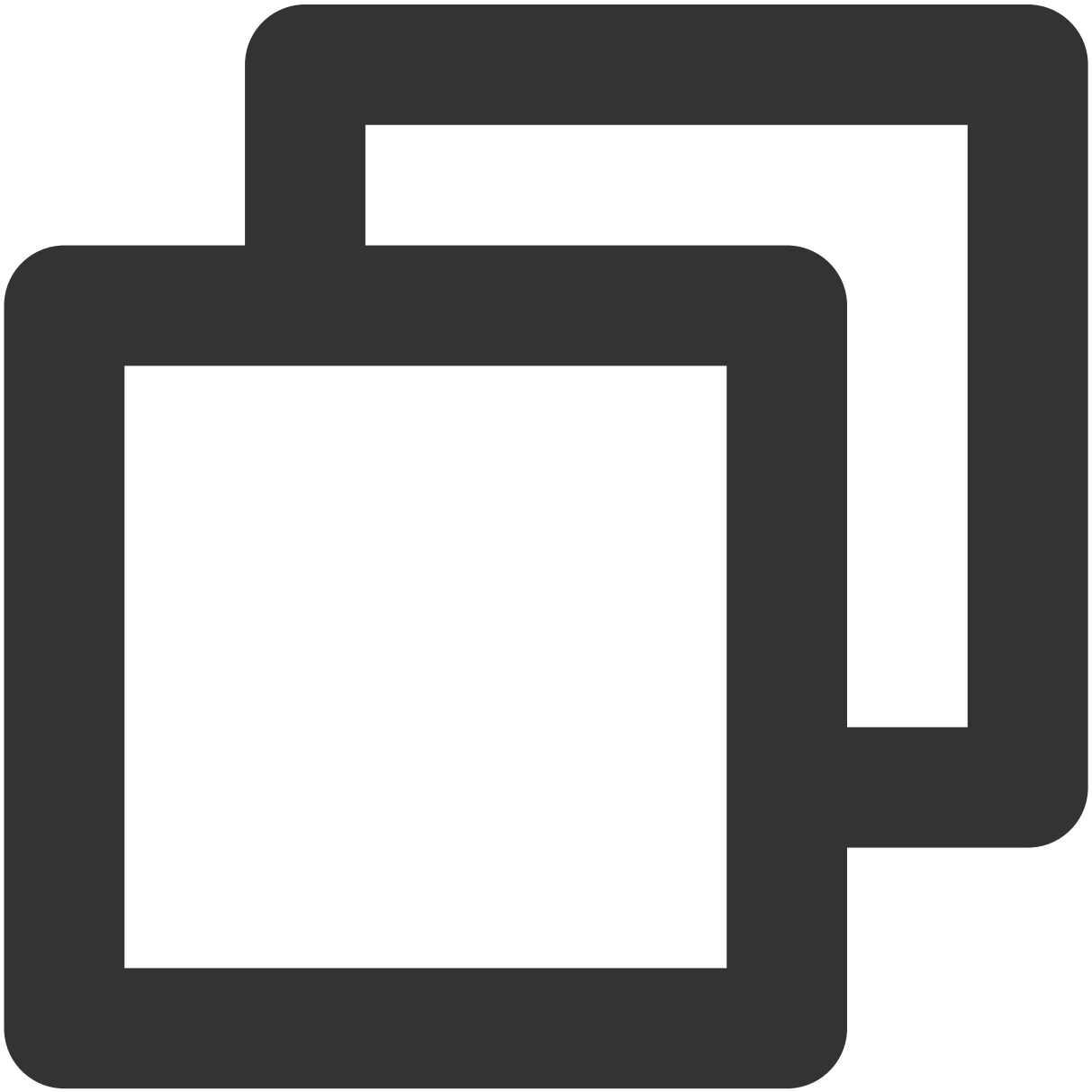
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```
request.getOperation().getOutput().setObject("2.mp4");
request.setQueueId("p9900025e4ec44b5e8225e70a521*****");
//3. Call the API to get the job response object
MediaJobResponse response = client.createMediaJobs(request);
```

Canceling a job

Feature description

This API is used to cancel a job that is not in progress.

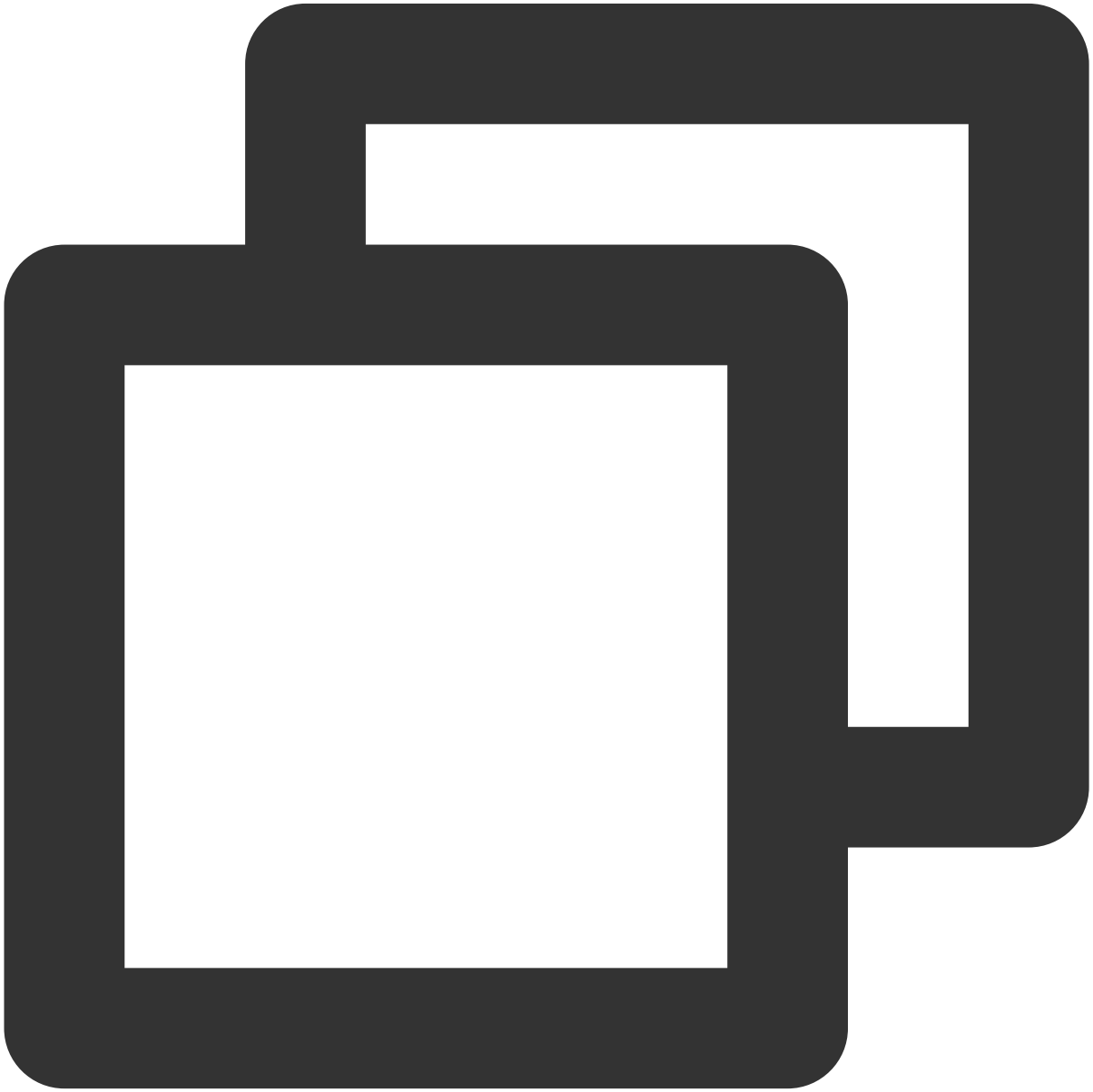


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```
MediaJobsRequest request = new MediaJobsRequest();
request.setBucketName("examplebucket-1250000000");
request.setJobId("jae776cb4ec3011eab2cdd3817d4*****");
Boolean response = client.cancelMediaJob(request);
```

Querying a job

This API is used to query the details of a job by job ID.



```
//1. Create a job request object
```

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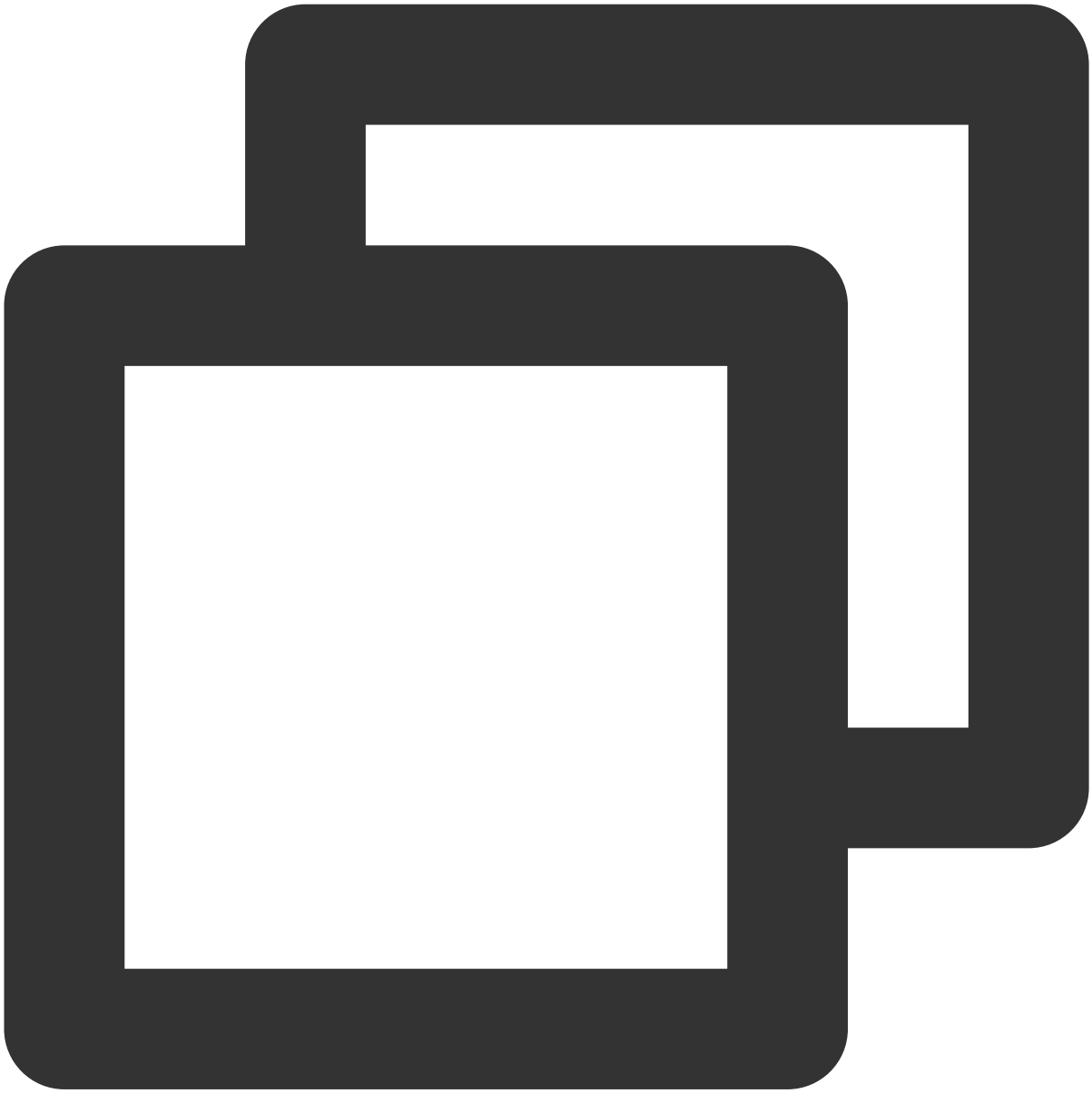
```
MediaJobsRequest request = new MediaJobsRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setJobId("j29a82fea08ba11ebb54bc9d1c05*****");
//3. Call the API to get the job response object
MediaJobResponse response = client.describeMediaJob(request);
```

Querying job list

This API is used to query the list of jobs in the queue.

Sample request

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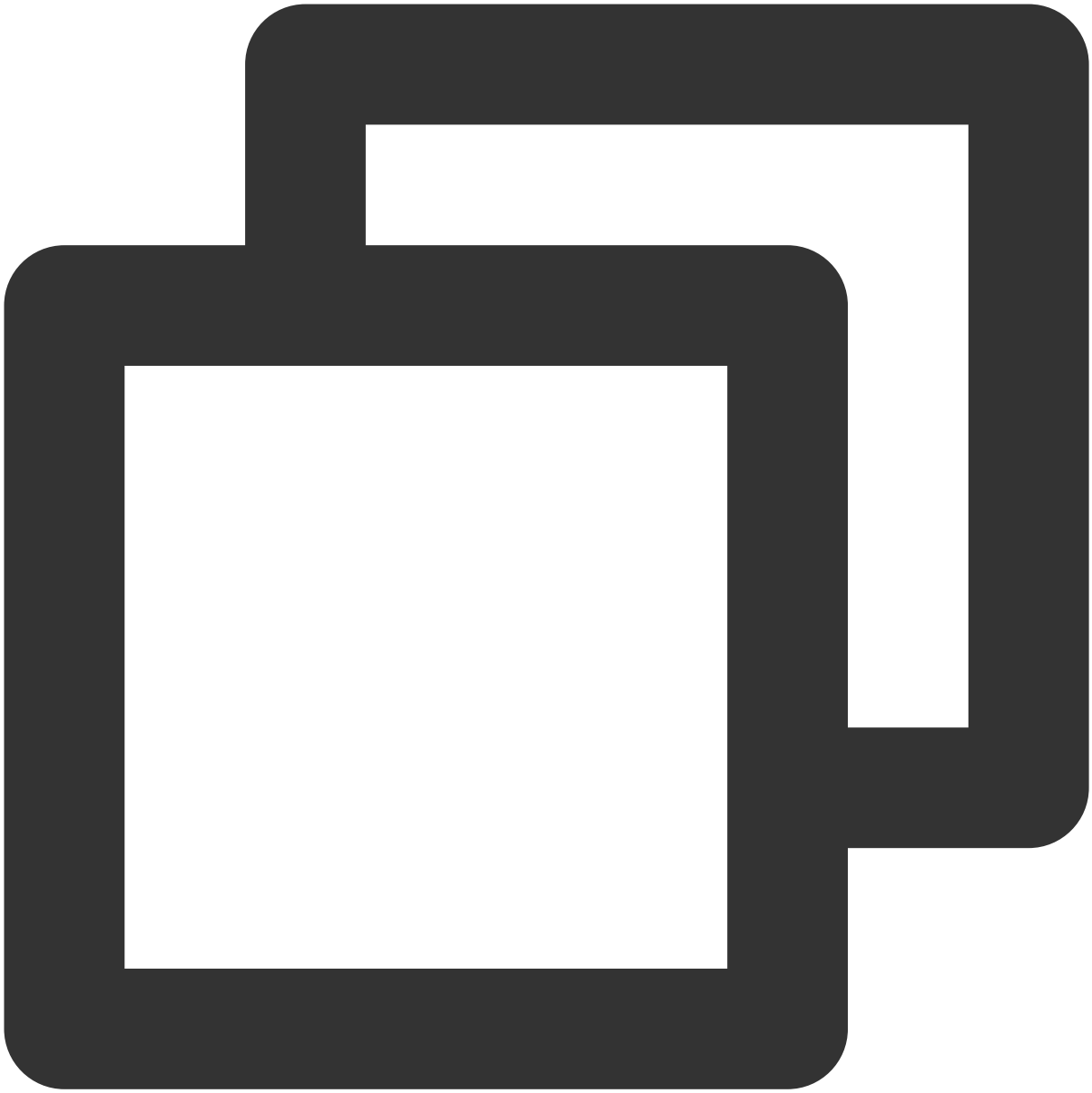


```
MediaJobsRequest request = new MediaJobsRequest();
request.setBucketName("examplebucket-1250000000");
request.setQueueId("p9900025e4ec44b5e8225e70a521*****");
request.setTag("Transcode");
MediaListJobResponse response = client.describeMediaJobs(request);
List<MediaJobObject> jobsDetail = response.getJobsDetail();
```

Shutting down the client

Shut down the COSClient and release the server threads connected over HTTP with the following code:

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```
// Close the client (release server threads).
cosClient.shutdown();
```

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FAQs

Last updated：2024-02-29 17:31:27

What do I do if the client network is normal, while the access to COS over HTTP is very slow, or the error message "Connection reset" is reported?

In some regions, ISPs may hijack COS endpoints. Therefore, we recommend you access COS over HTTPS.

What do I do if `java.lang.NoSuchMethodError` is reported when I run the SDK?

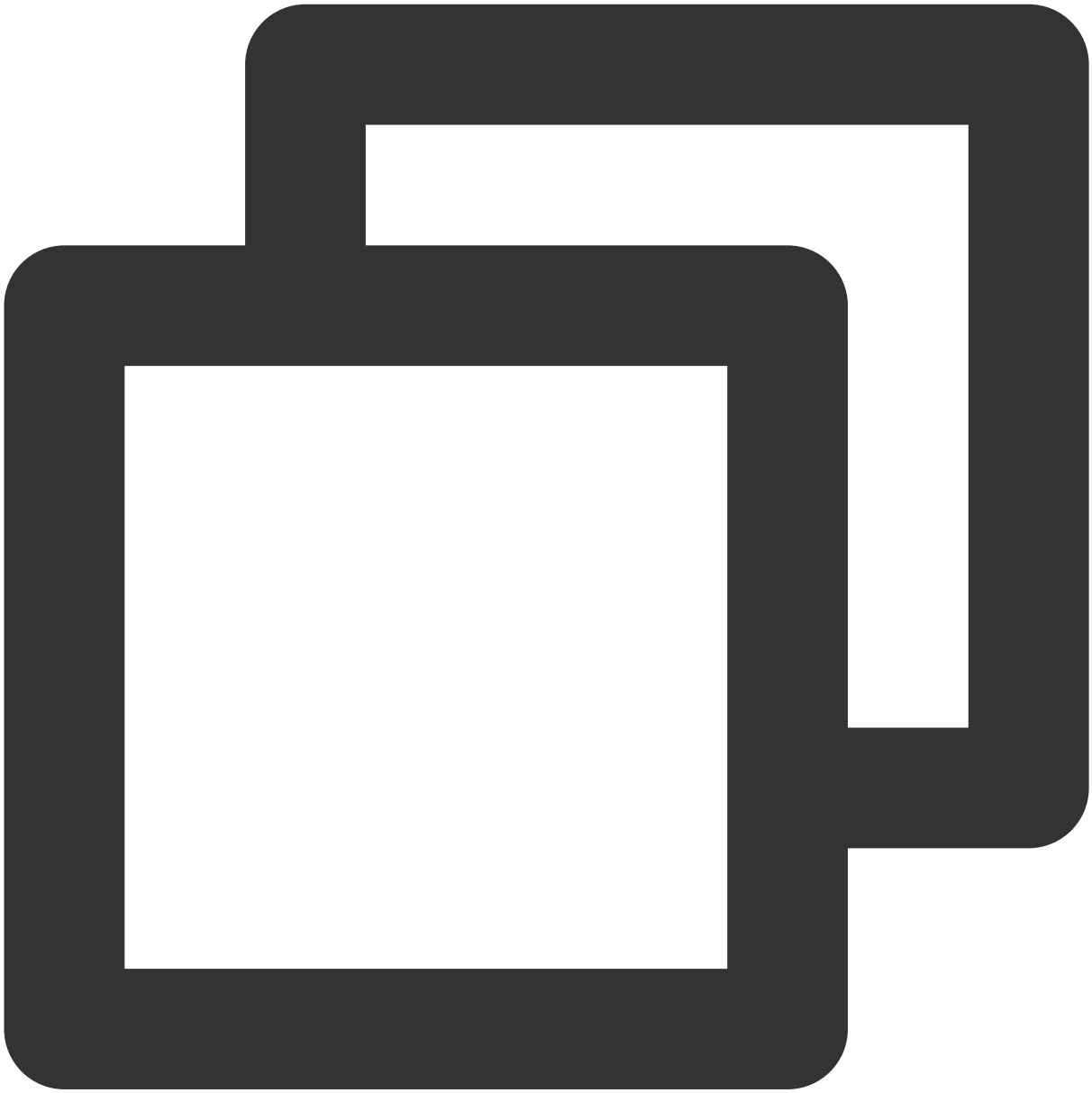
Cause: This is usually caused by a JAR package conflict. For example, if the JAR package the SDK depends on uses method A, but the JAR package in the HttpClient library of your project does not have method A, then the HttpClient library will be loaded in the runtime loading order, reporting `NoSuchMethodError`.

Solution:

Solution 1: Change the version of the package in your project that has caused `NoSuchMethodError` to the version of the corresponding library in `pom.xml` in the SDK.

Solution 2: Replace `cos-java-sdk` with `cos_api-bundle`. In this case, all dependencies of `cos-java-sdk` are installed independently, so more space will be used.

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```
<groupId>com.qcloud</groupId>
     <artifactId>cos_api-bundle</artifactId>
<version>5.6.35</version>
```

What is the default timeout duration of the Java SDK?

Both the default connection and read/write timeout periods of the Java SDK are 30,000 ms. You can use the `SetConnectionTimeoutMs` and `setSocketTimeout` methods in the SDK to adjust them respectively.

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What do I do if the upload with the Java SDK is slow and `IOException` is frequently printed in the log?

Troubleshoot the problem as follows:

1. Check whether you are accessing COS over the public network.

Currently, CVM instances in the same region as COS generally access COS over the private network (the IP ranges resolved by the private endpoint are 10, 100, and 169). For more information on COS endpoints, see Regions and Access Endpoints. If the public network is used, check whether the egress bandwidth is too small or whether bandwidth resources are occupied by other programs.

2. Check that the logs in the production environment are not set to DEBUG level. The INFO level is recommended.

3. If `IOException` is printed in WARN logs, it can be ignored, and the SDK will retry. `IOException` may be caused by a slow network connection. For solutions, see steps 1 and 2 above.

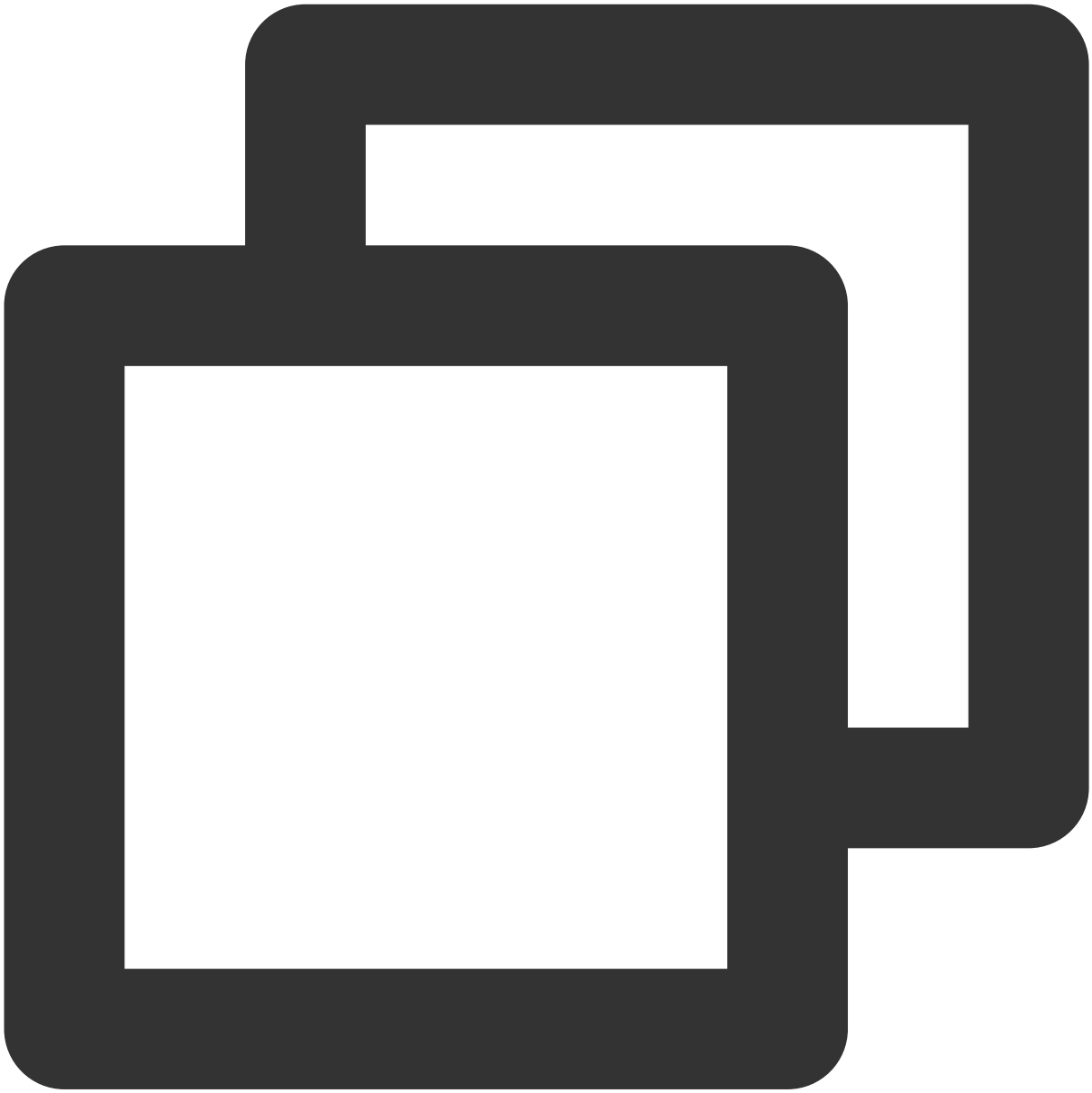
What do I do if there is a plus sign (+) in the requested upload path, throwing "403 SignatureDoesNotMatch"?

Possible cause: The version of HttpClient in the Java environment leads to a URL-encoding error.

Solution:

Solution 1: Use HttpClient 4.5.3.

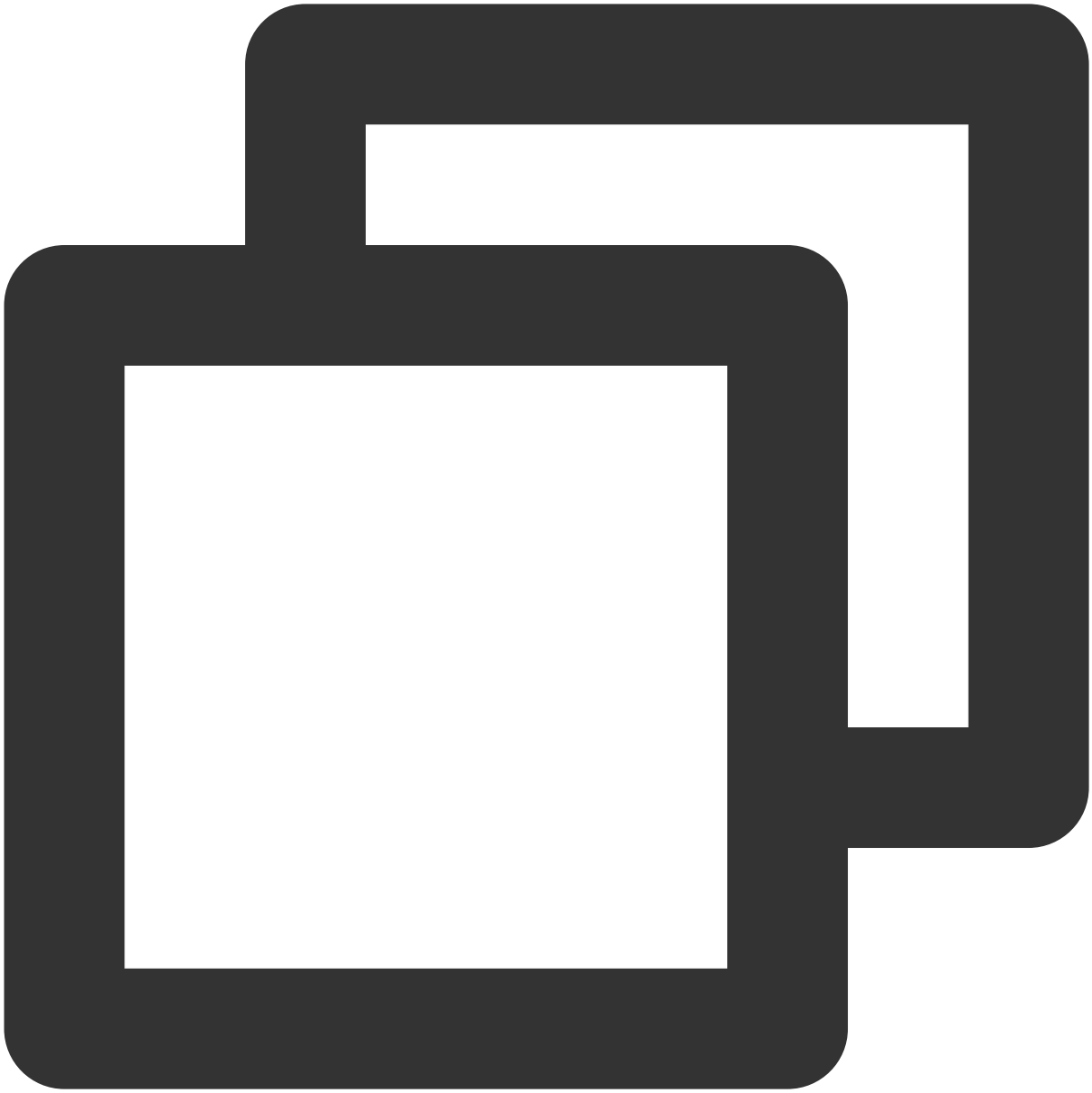
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```
<groupId>org.apache.httpcomponents</groupId>
     <artifactId>httpclient</artifactId>
 <version>4.5.3</version>
```

Solution 2: Replace `cos-java-sdk` with `cos_api-bundle` . In this case, all dependencies of `cos-java-sdk` are installed independently, so more space will be used.

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```
<groupId>com.qcloud</groupId>
     <artifactId>cos_api-bundle</artifactId>
<version>5.6.35</version>
```

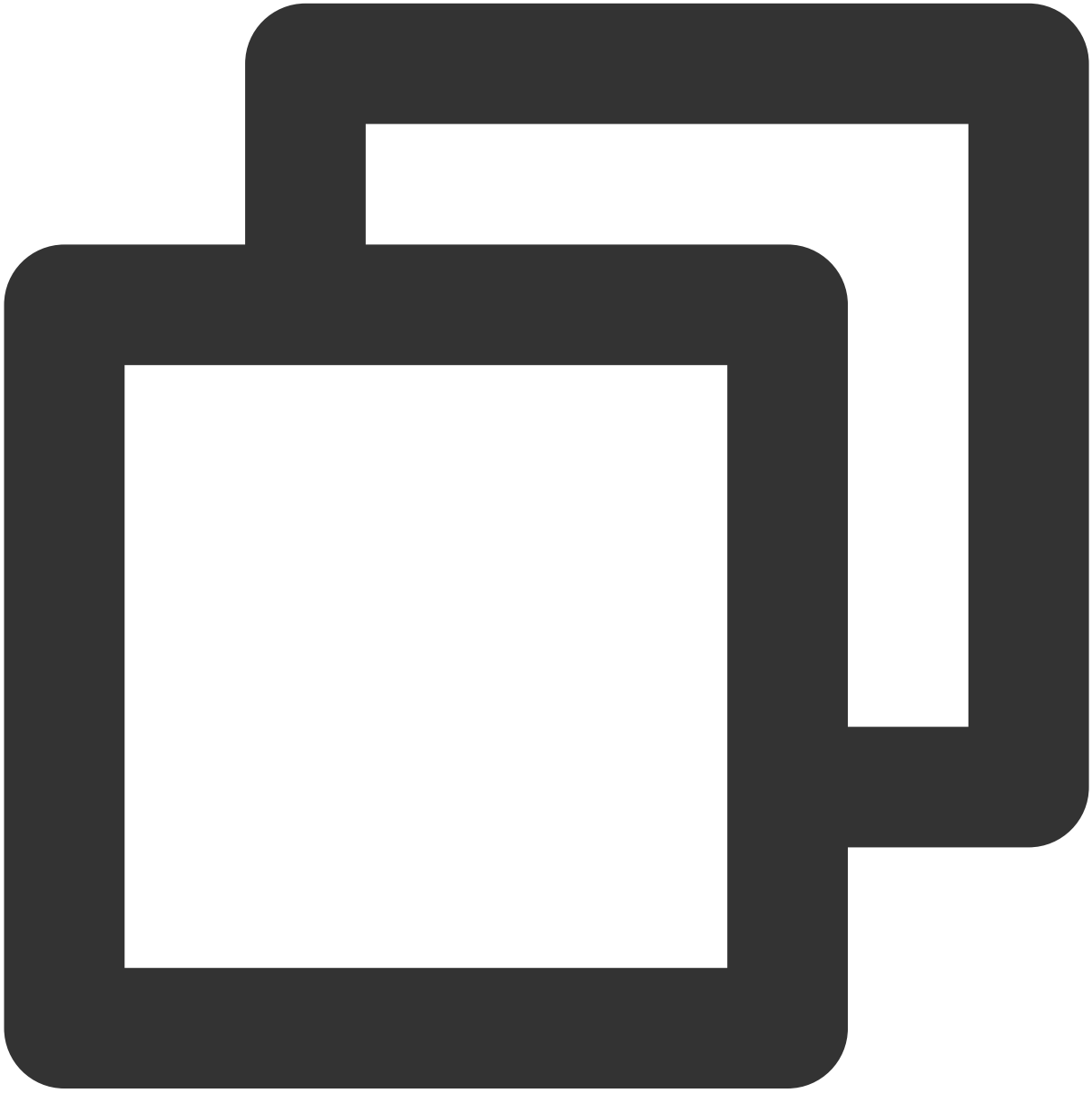
What should I do if the Java SDK reports an error indicating that a certain dependency version is too low?

Cause: The dependency version of your Java environment conflicts with that required by the Java SDK.

Solution:

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Solution 1: Upgrade the dependency to the required version as prompted.
Solution 2: Replace `cos-java-sdk` with `cos_api-bundle`. In this case, all dependencies of `cos-java-sdk` are installed independently, so more space will be used.

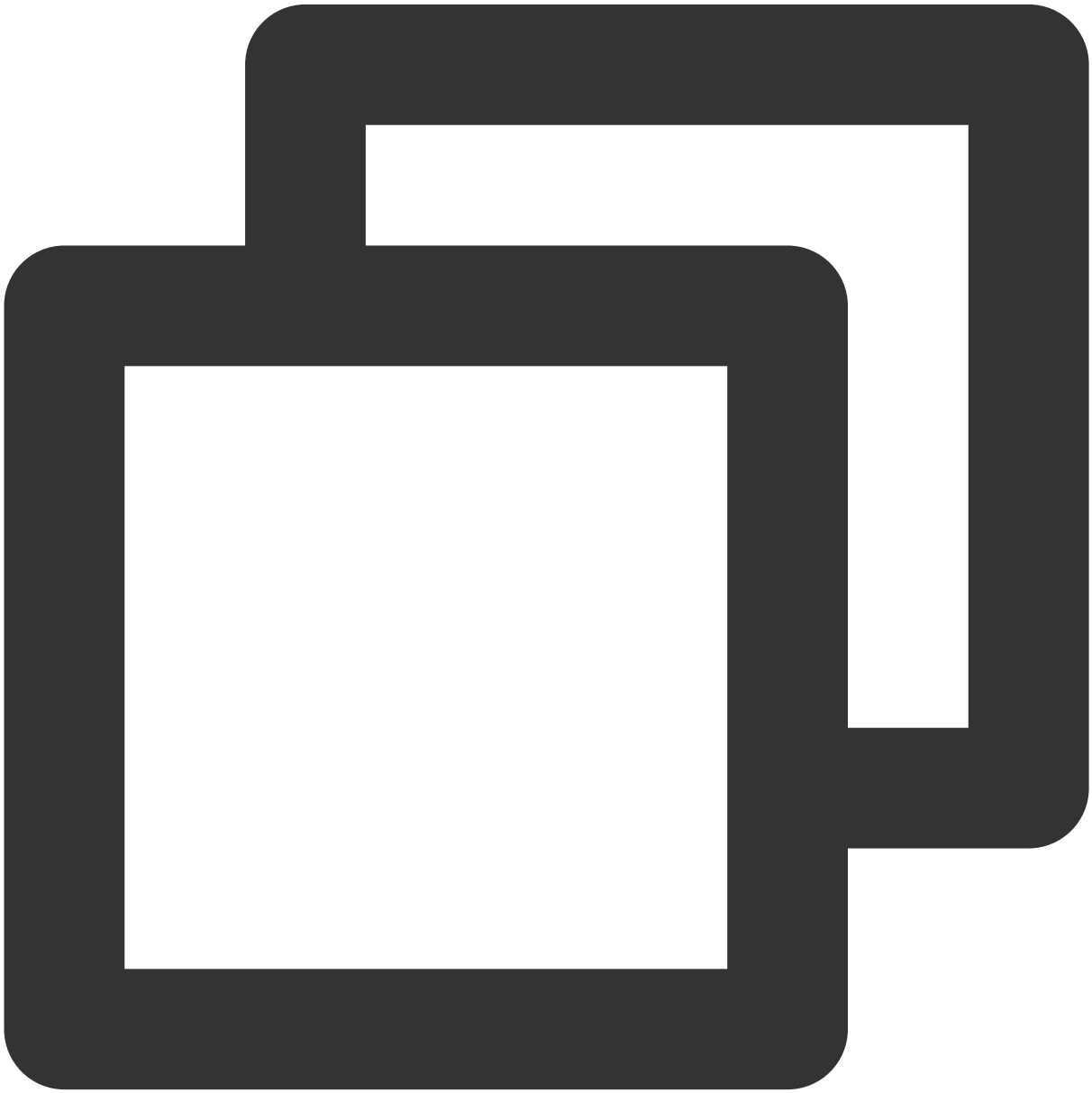


```
<groupId>com.qcloud</groupId>
     <artifactId>cos_api-bundle</artifactId>
<version>5.6.35</version>
```

How do I create a COS file directory in the SDK?

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In COS, both files and directories are objects, where directories are objects that end with `/`. When creating a file, you don't need to create a directory. For example, when you create a file with the object key of `xxx/yyy/zzz.txt`, set the key to `xxx/yyy/zzz.txt` instead of creating the object `xxx/yyy/`. Directories are separated by `/` to show the hierarchy when displayed in the console. To create a directory object, use the following sample code:



```
String bucketName = "examplebucket-1250000000";
String key = "folder/images/";
// A directory object is an empty file that ends with /, where a byte stream with a
InputStream input = new ByteArrayInputStream(new byte[0]);
```

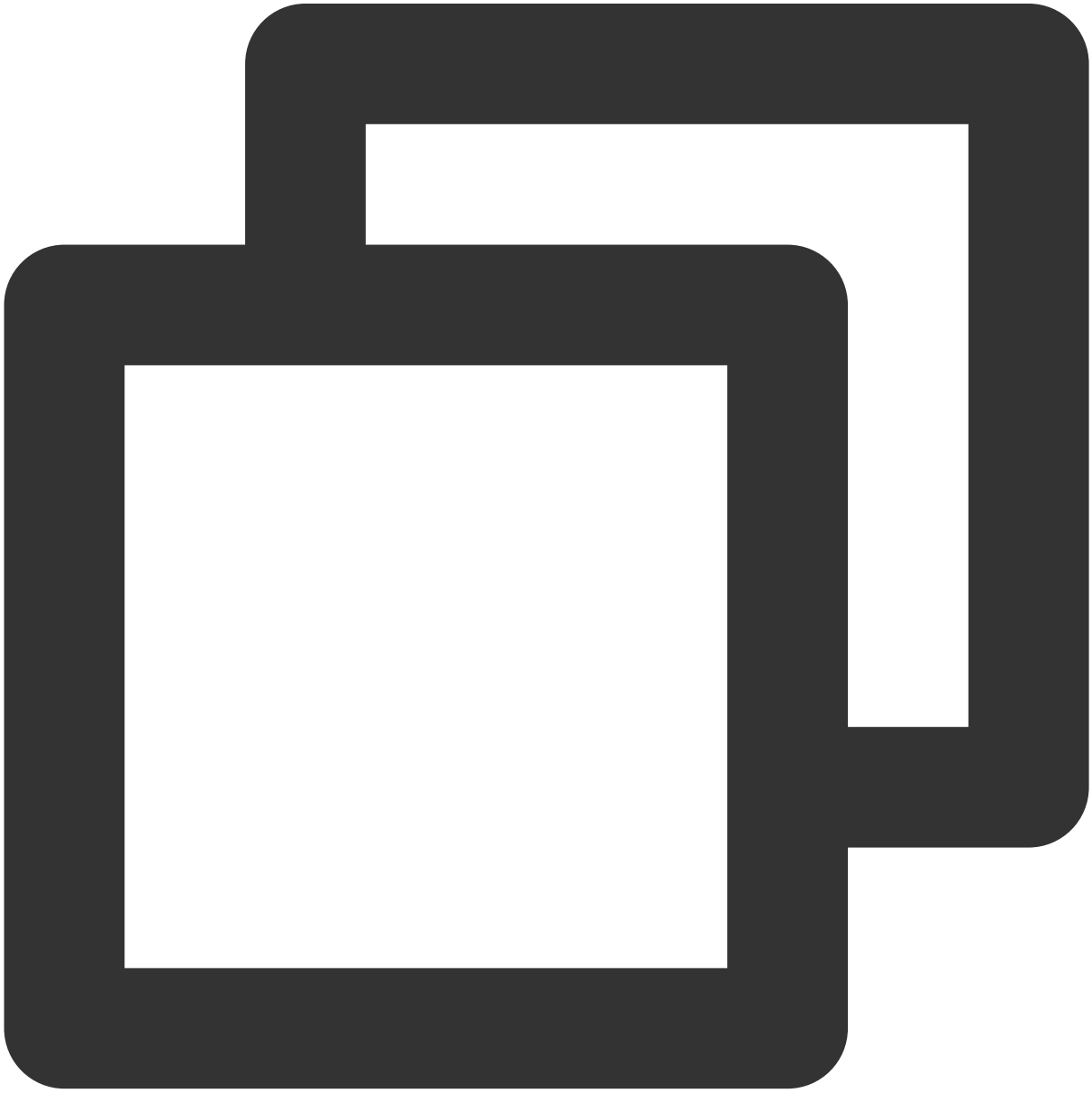
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```
ObjectMetadata objectMetadata = new ObjectMetadata();
objectMetadata.setContentLength(0);

PutObjectRequest putObjectRequest =
new PutObjectRequest(bucketName, key, input, objectMetadata);
PutObjectResult putObjectResult = cosClient.putObject(putObjectRequest);
```

How do I use HTTPS in the SDK?

In the SDK, relevant configuration items are put in the `ClientConfig` class. Below is the sample code:



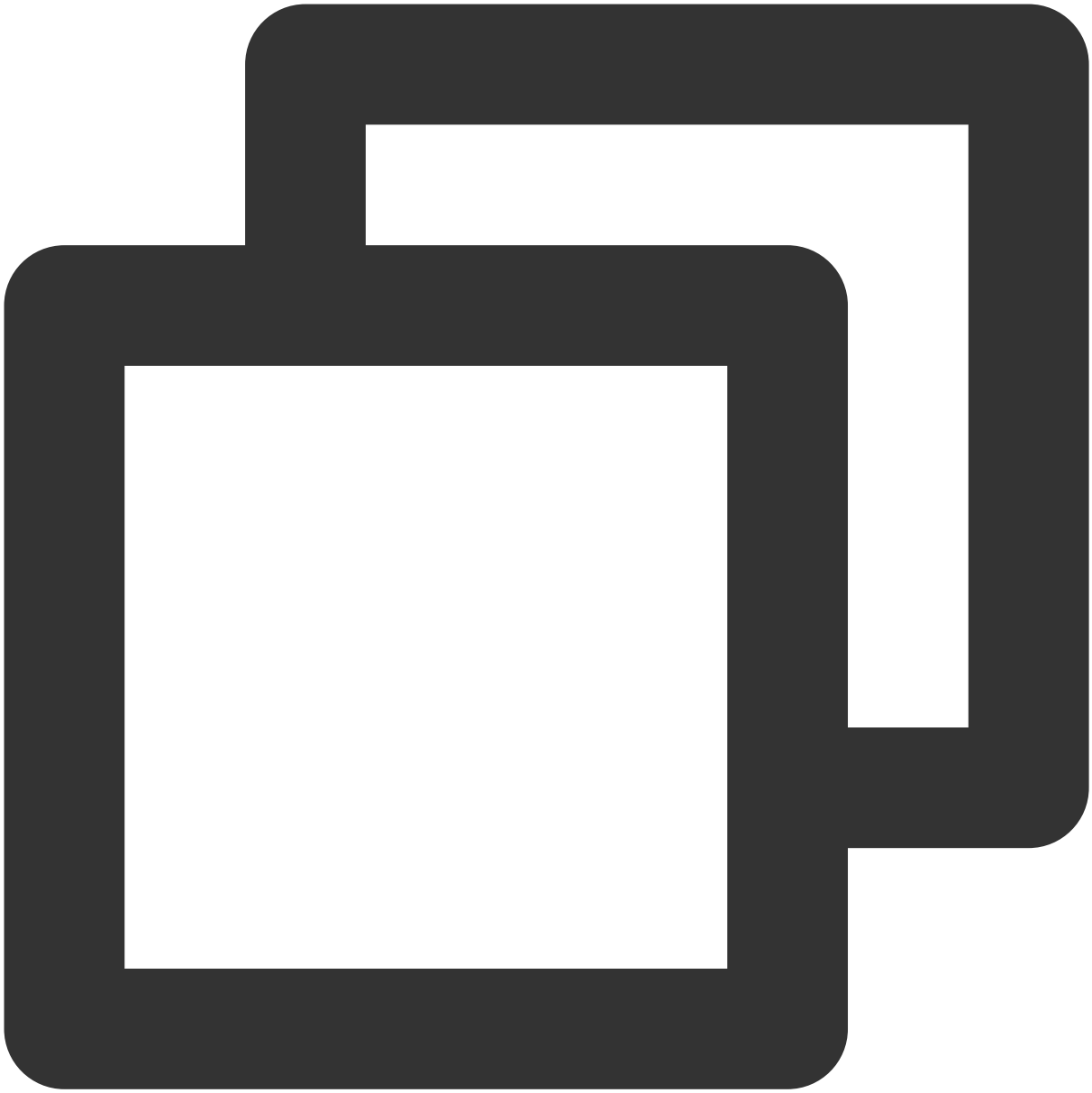
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```
// Initialize user authentication information (`secretId` and `secretKey`).
String secretId = "COS_SECRETID";
String secretKey = "COS_SECRETKEY";
COSCredentials cred = new BasicCOSCredentials(secretId, secretKey);
// Set the bucket region. For abbreviations of COS regions, please visit https://in
ClientConfig clientConfig = new ClientConfig(new Region("ap-beijing-1"));
// Configure HTTPS.
clientConfig.setHttpProtocol(HttpProtocol.https);
// Generate a COS client.
COSClient cosClient = new COSClient(cred, clientConfig);
```

How do I use a proxy in the SDK?

If you need to use a proxy to access COS or CI, you can configure a proxy IP (or domain name) and port in the `ClientConfig` class. Below is the sample code:

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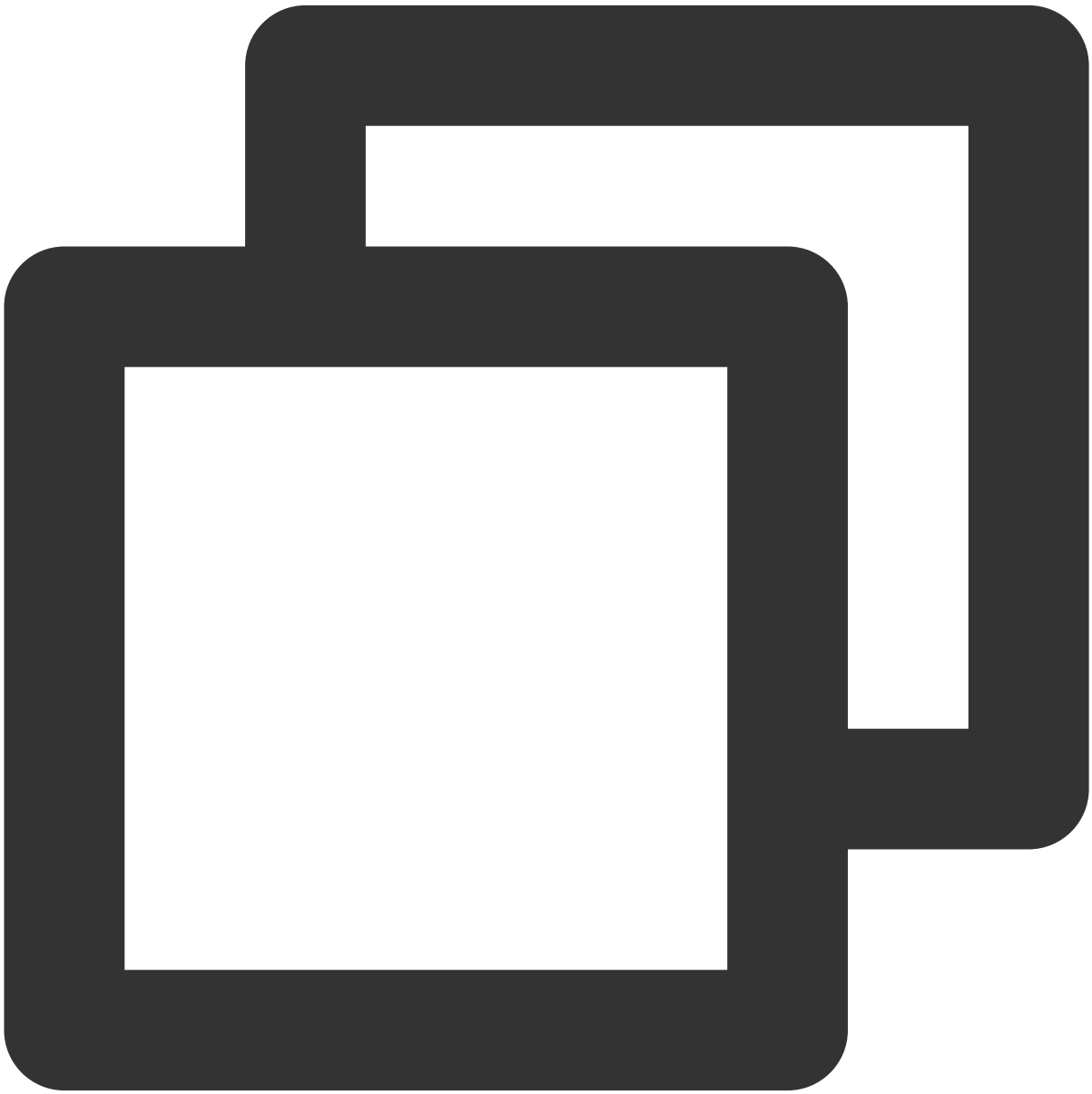
```
// Initialize user authentication information (`secretId` and `secretKey`).
String secretId = "COS_SECRETID";
String secretKey = "COS_SECRETKEY";
COSCredentials cred = new BasicCOSCredentials(secretId, secretKey);
// Set the bucket region. For abbreviations of COS regions, please visit https://in
ClientConfig clientConfig = new ClientConfig(new Region("ap-beijing-1"));
// Configure a proxy (both the IP and port need to be set).
// Set the proxy IP (or pass an endpoint).
clientConfig.setHttpProxyIp("192.168.2.3");
// Set the proxy port.
clientConfig.setHttpProxyPort(8080);
```

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```
// Generate a COS client.
COSClient cosClient = new COSClient(cred, clientConfig);
```

How do I set up custom `EndpointBuilder` ?

In scenarios where the endpoint needs to be specified for an API request, you need to implement the `buildGeneralApiEndpoint` and `buildGetServiceApiEndpoint` functions in the `EndpointBuilder` API to specify the remote endpoints for general API requests and `GETService` requests respectively. Below is the sample code:



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```
// Step 1. Implement the two functions in the EndpointBuilder API.
class SelfDefinedEndpointBuilder implements EndpointBuilder {
    @Override
    public String buildGeneralApiEndpoint(String bucketName) {
        return String.format("%s.%s", bucketName, "mytest.com");
    }

    @Override
    public String buildGetServiceApiEndpoint() {
        return "service.mytest.com";
    }
}

// Step 2. Initialize the client.
String secretId = "COS_SECRETID";
String secretKey = "COS_SECRETKEY";
COSCredentials cred = new BasicCOSCredentials(secretId, secretKey);
SelfDefinedEndpointBuilder selfDefinedEndpointBuilder = new SelfDefinedEndpointBuil
ClientConfig clientConfig = new ClientConfig(new Region("ap-beijing"));
clientConfig .setEndpointBuilder(selfDefinedEndpointBuilder);
COSClient cosClient = new COSClient(cred, clientConfig);
```

Do I need to add the `/` prefix to key values used in SDK operations such as upload, download, and batch delete?

The key value does not need to be prefixed with `/` for COS objects. For example, if you set the key value of a COS object to `exampleobject`, you can access it using the `http://cos.ap-guangzhou.myqcloud.com/exampleobject` URL.

Note:

Do not pass in a key prefixed with `/` in a batch deletion request; otherwise, object deletion will fail.

What should I do if the error message "please make sure bucket name must contain legal appid when appid is missing. example: bucektname-1250000000" is reported when I use the Java SDK to upload files?

COS Java SDK on an earlier version supports only APPID values starting with 125. If you are using an APPID starting with 130, we recommend you update the SDK to the latest version. For more information on how to download and install the Java SDK, see Getting Started.

What should I do if the Java SDK reports an error when I upload large files?

To upload files larger than 5 GB by using the Java SDK, we recommend you use the advanced upload API. It automatically determines whether to use simple or multipart upload based on the length and data type of your file.

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How do I obtain the file upload progress in the Java SDK?

To get the file upload progress, we recommend you use the advanced upload API. You can use the `getProgress()` method of `Upload` to get the `TransferProgress` class.

Can Java SDK use persistent connections?

The Java SDK uses persistent connections by default.

How to use the Java SDK to get all the paths to the specified directory and determine whether the paths are files or folders?

You can use the feature of querying the object list in the Java SDK to list all objects in a bucket. **You can use the `prefix` parameter to specify the directory prefix.**

What should I do if the Java SDK reports the error "java.lang.IllegalStateException: Connection pool shut down"?

1. COSClient is a thread-safe class that allows multi-thread access to the same instance.
Because an instance maintains a connection pool internally, creating multiple instances may lead to resource exhaustion. Make sure that there is only one instance in the program lifecycle, and call the `COSClient.shutdown()` method to shut down the instance when it is no longer needed.
If you need to create a new instance, shut down the previous one first. **We recommend you use only one COSClient in a thread and call `COSClient.shutdown()` after all programs end and exit.**
2. COSClient is also used in the TransferManager encapsulation class of advanced APIs. We recommend you call `TransferManager.shutdownNow(false)` after all programs end and exit.
In addition, if another COSClient is reused when a TransferManager instance is created, add the parameter `false` (i.e., `TransferManager.shutdownNow(false)`) when closing the instance. This avoids closing the reused COSClients and thus causing errors in other places where it is used.

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Image Processing
Basic Image Processing

Last updated：2024-02-29 17:31:27

Overview

COS has integrated Cloud Infinite (CI), a one-stop professional multimedia solution that offers the image processing features outlined below. For more information, see Image Processing Overview.

Service	Feature	Description
Basic image processing	Scaling	Proportional scaling, scaling image to target width and height
	Cropping	Regular cropping, cropping and scaling, cropping to circle, smart face cropping
	Rotation	Adaptive rotation, regular rotation
	Format conversion	Format conversion, GIF format optimization, progressive display
	Quality change	Quality change for JPG and WebP images
	Gaussian blurring	Image blurring
	Sharpening	Image sharpening
	Watermarking	Image watermark, text watermark
	Image information acquisition	Basic information, EXIF information, average hue
	Metadata removal	Including EXIF information
	Quick thumbnail template	Quick image format conversion, scaling, and cropping for thumbnail generation

Basic Image Processing

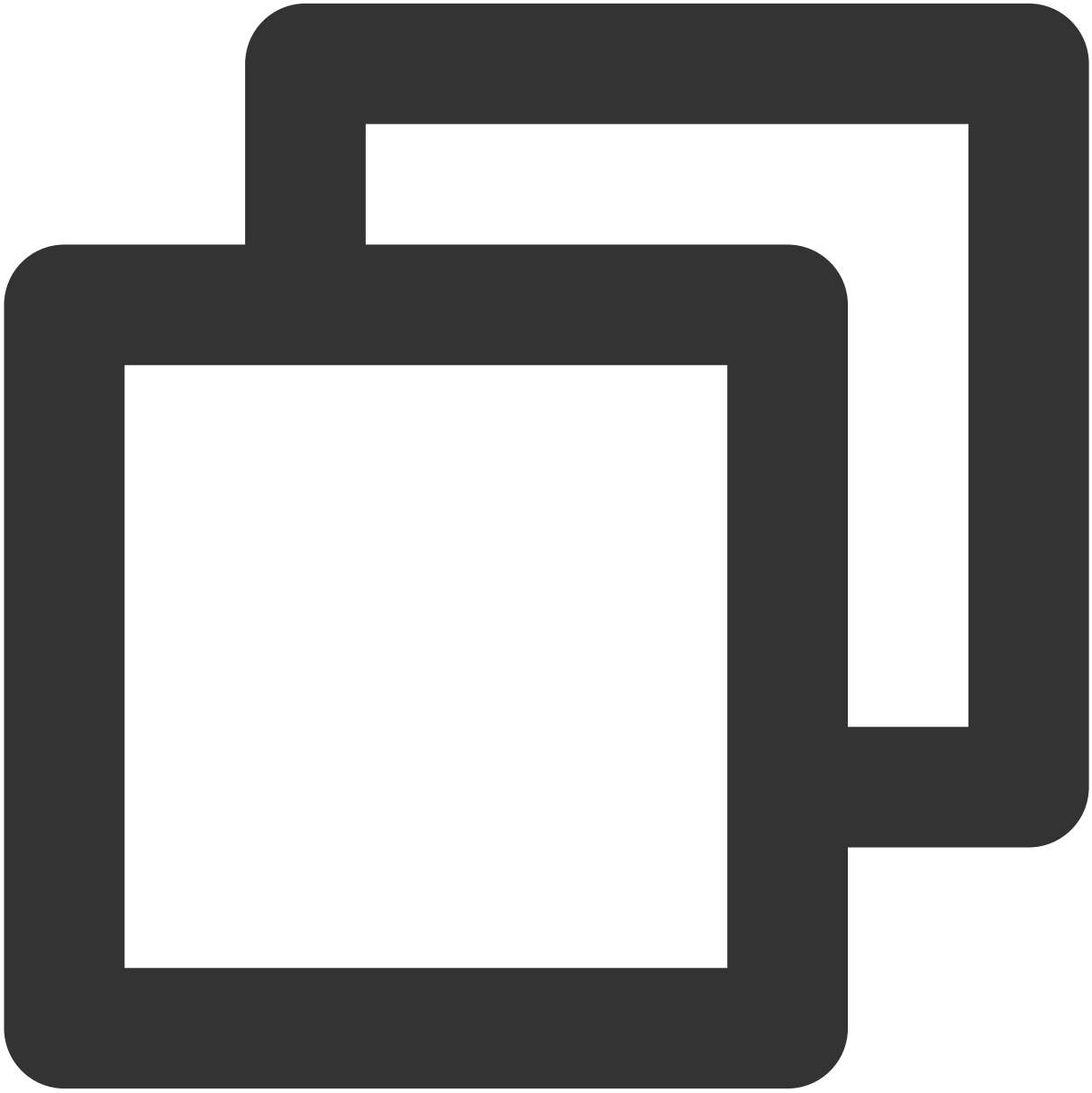
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When performing basic image processing, you need to specify the image processing rule. For more information, see Image Processing Overview.

For all the code samples, visit GitHub.

Below are some examples:

Scaling

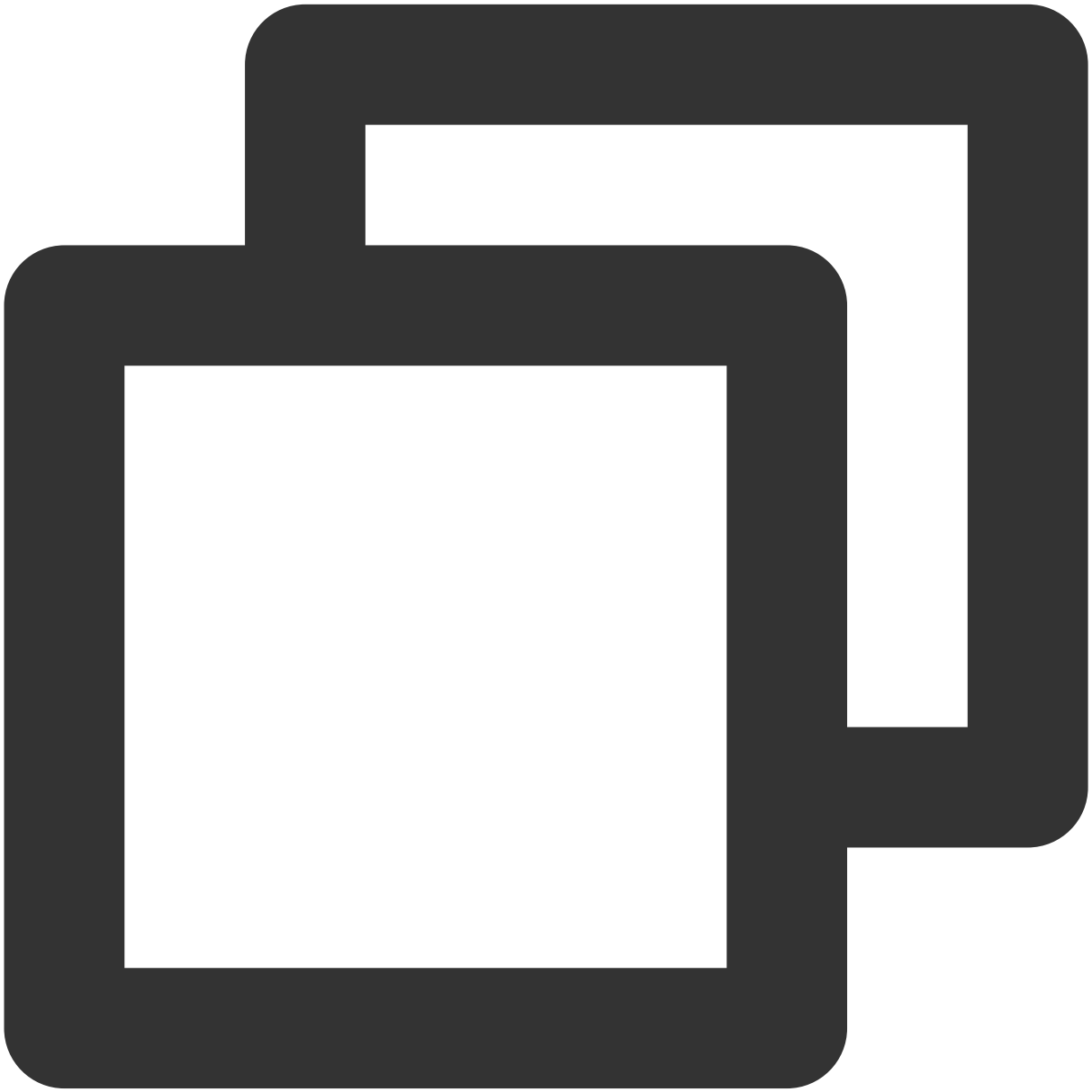


```
String bucketName = "examplebucket-1250000000";
String key = "qrcode.png";
GetObjectRequest getObj = new GetObjectRequest(bucketName, key);
```

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```
// Scale the width and height to 50% of the input image
String rule = "imageMogr2/thumbnail/!50p";
getObj.putCustomQueryParameter(rule, null);
cosClient.getObject(getObj, new File("qrcode-50p.png"));
```

Cropping

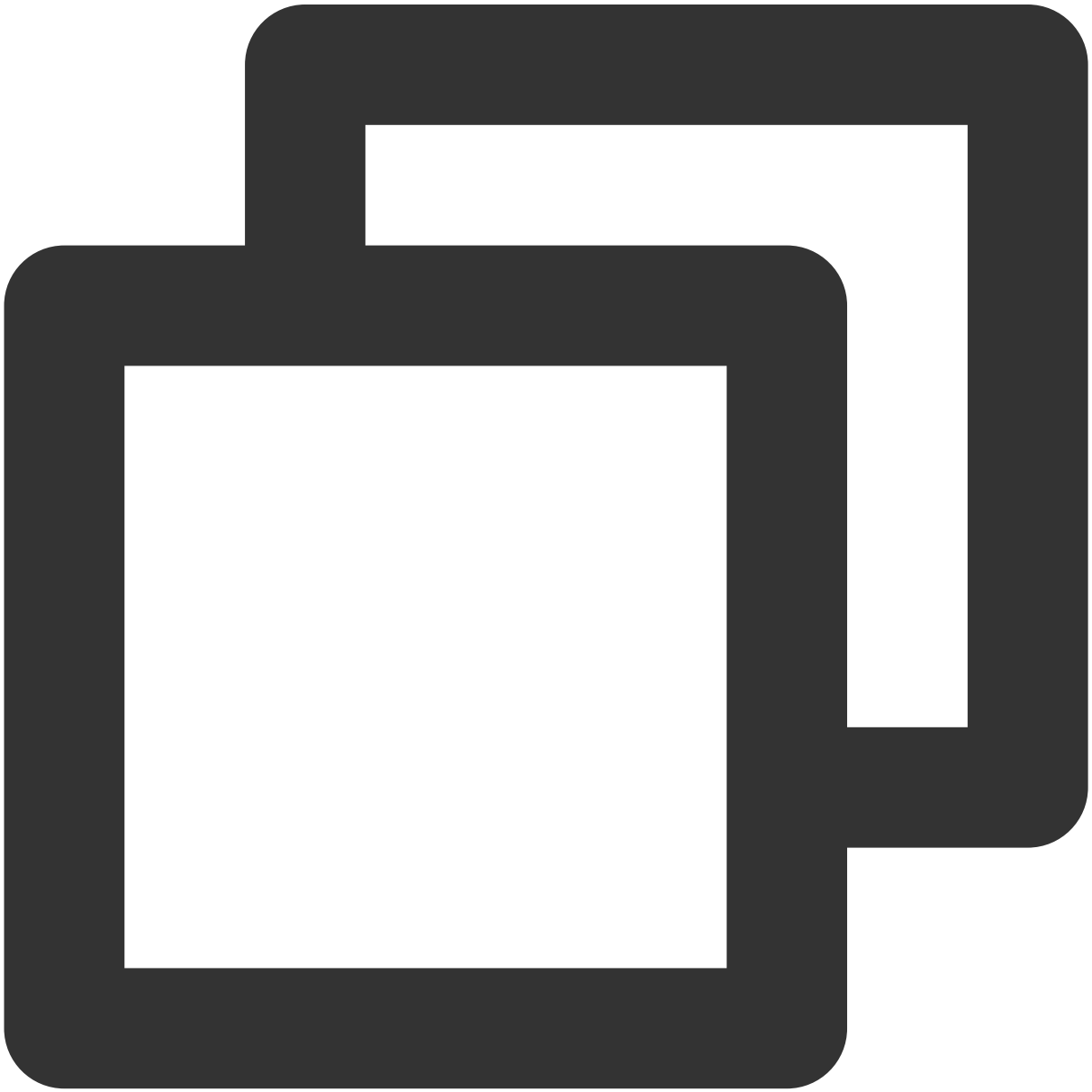


```
String bucketName = "examplebucket-1250000000";
String key = "qrcode.png";
GetObjectRequest getObj = new GetObjectRequest(bucketName, key);
```

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```
// Crop the radius of an inscribed circle to an integer greater than zero and less
String rule = "imageMogr2/iradius/150";
getObj.putCustomQueryParameter(rule, null);
cosClient.getObject(getObj, new File("qrcode-cropping.png"));
```

Rotation



```
String bucketName = "examplebucket-1250000000";
String key = "qrcode.png";
GetObjectRequest getObj = new GetObjectRequest(bucketName, key);
```

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```
// Rotate clockwise by 90 degrees
String rule = "imageMogr2/rotate/90";
getObj.putCustomQueryParameter(rule, null);
cosClient.getObject(getObj, new File("qrcode-rotate.png"));
```

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Persistent Image Processing

Last updated：2024-02-29 17:31:27

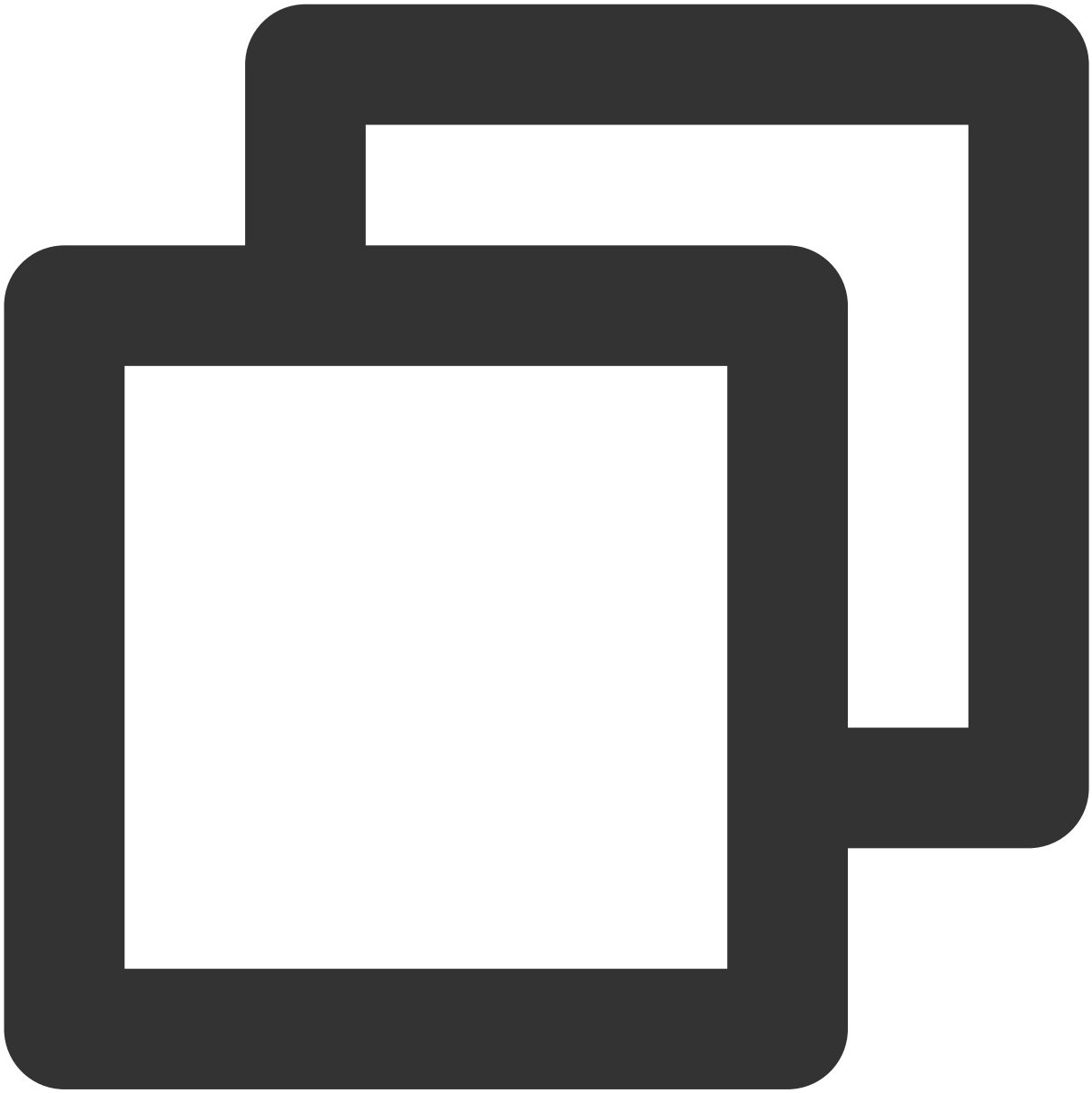
Overview

This document describes how to automatically process an image when you upload it to COS.
When the image is uploaded successfully, COS will save both the original and the processed images. You can later obtain the processing results by using a general download request.

Persistent Image Processing During Upload

Sample code

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```
  // The bucket name must contain `appid`.
// For the API description, visit https://cloud.tencent.com/document/product/436/54
String bucketName = "examplebucket-1250000000";

String key = "test.jpg";
File localFile = new File("E://test.jpg");
PutObjectRequest putObjectRequest = new PutObjectRequest(bucketName, key, localFile
PicOperations picOperations = new PicOperations();
picOperations.setIsPicInfo(1);
// Add image processing rules
List<PicOperations.Rule> ruleList = new LinkedList<>();
```

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```
PicOperations.Rule rule1 = new PicOperations.Rule();
rule1.setBucket(bucketName);
rule1.setFileId("test-1.jpg");
rule1.setRule("imageMogr2/rotate/90");
ruleList.add(rule1);
PicOperations.Rule rule2 = new PicOperations.Rule();
rule2.setBucket(bucketName);
rule2.setFileId("test-2.jpg");
rule2.setRule("imageMogr2/rotate/180");
ruleList.add(rule2);
picOperations.setRules(ruleList);
putObjectRequest.setPicOperations(picOperations);
try {
    PutObjectResult putObjectResult = cosClient.putObject(putObjectRequest);
    CIUploadResult ciUploadResult = putObjectResult.getCiUploadResult();
    System.out.println(putObjectResult.getRequestId());
    System.out.println(ciUploadResult.getOriginalInfo().getEtag());
    for(CIObject ciObject:ciUploadResult.getProcessResults().getObjectList()) {
        System.out.println(ciObject.getLocation());
        System.out.println(ciObject.getEtag());
    }
} catch (CosServiceException e) {
    e.printStackTrace();
} catch (CosClientException e) {
    e.printStackTrace();
}
```

Parameter description

The `PicOperations` class is used to record image operations. Its main members are as described below:

Member	Description	Type
isPicInfo	Whether to return the input image information. Valid values: 0 (no), 1 (yes). Default value: 0.	int
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.	List

Response parameter description

The `CIUploadResult` class is used to return the image processing result. Its main members are as described below:

Member	Description	Type
originalInfo	Input image information	OriginalInfo

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processResults	Image processing result	ProcessResults

The `OriginalInfo` class is used to record the input image information. Its main members are as described below:

Member	Description	Type
key	Name of the input image	String
location	Image path	String
imageInfo	Input image information	ImageInfo
etag	`ETag` of the input image. If the output image overwrites the input image, the value of `ETag` will be that of the output image.	String

The `ImageInfo` class is used to record the input image information. Its main members are as described below:

Member	Description	Type
format	Format	String
width	Image width	Integer
height	Image height	Integer
quality	Image quality	Integer
ave	Image average hue	String
orientation	Image rotation angle	Integer

The `ProcessResults` class is used to record the image processing results. Its main members are as described below:

Member	Description	Type
objectList	Processing result of each image	List

The `CIObject` class is used to record the processing result of a single image. Its main members are as described below:

Member	Description	Type
key	Filename	String

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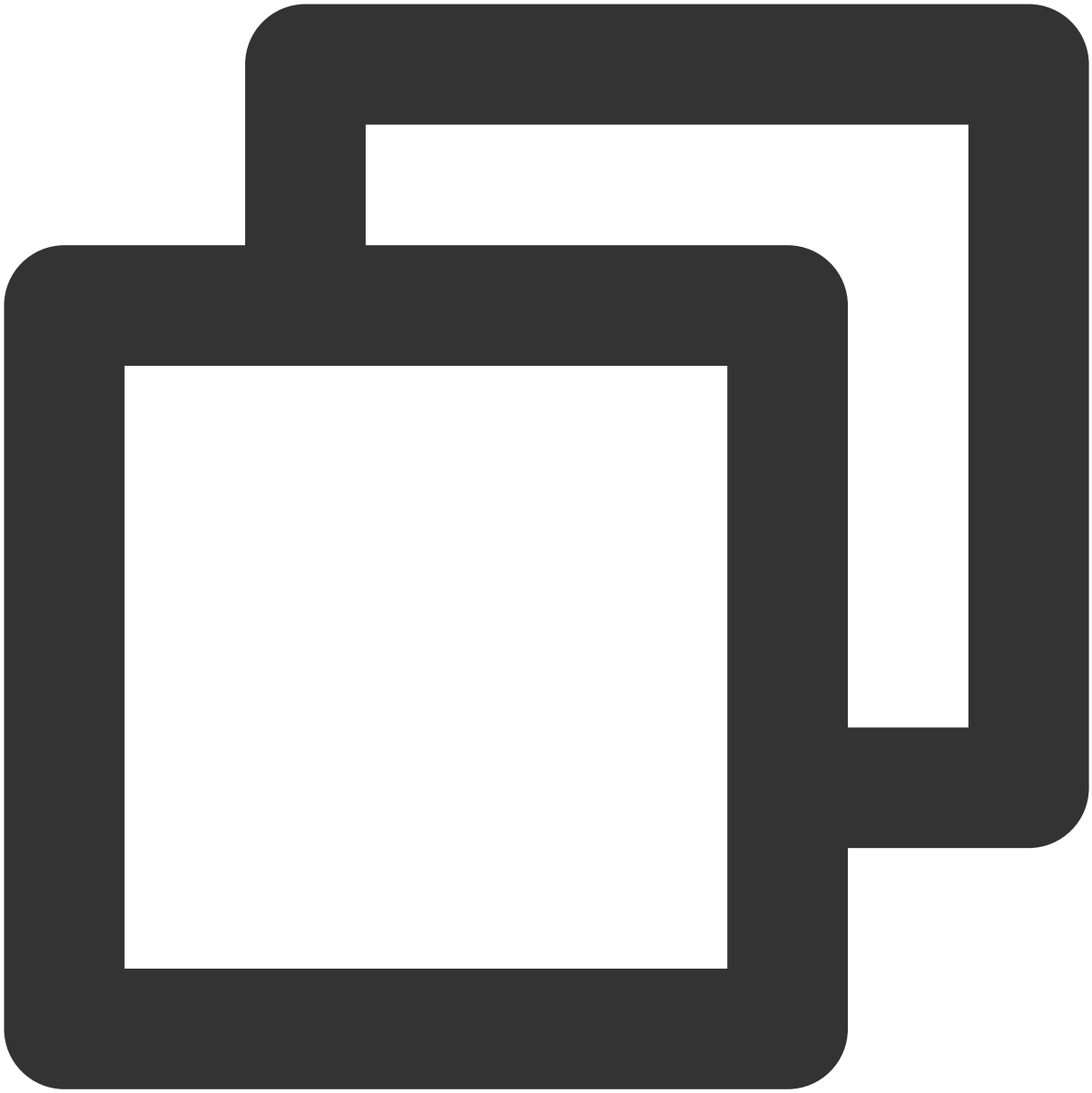
location	Image path	String
format	Image format	String
width	Image width	Integer
height	Image height	Integer
size	Image size	Integer
quality	Image quality	Integer
etag	`ETag` of the output image	String

Processing In-Cloud Image

The following example shows how to process an image stored in COS and save the processing result to COS.

Sample code

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```
String bucketName = "examplebucket-1250000000";
String key = "test.jpg";
ImageProcessRequest imageReq = new ImageProcessRequest(bucketName, key);

PicOperations picOperations = new PicOperations();
picOperations.setIsPicInfo(1);
List<PicOperations.Rule> ruleList = new LinkedList<>();
PicOperations.Rule rule1 = new PicOperations.Rule();
rule1.setBucket(bucketName);
rule1.setFileId("test-1.jpg");
rule1.setRule("imageMogr2/rotate/90");
```

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```
ruleList.add(rule1);
PicOperations.Rule rule2 = new PicOperations.Rule();
rule2.setBucket(bucketName);
rule2.setFileId("test-2.jpg");
rule2.setRule("imageMogr2/rotate/180");
ruleList.add(rule2);
picOperations.setRules(ruleList);

imageReq.setPicOperations(picOperations);

CIUploadResult result = cosClient.processImage(imageReq);
result.getProcessResults();
result.getOriginalInfo();

try {
    CIUploadResult ciUploadResult = cosClient.processImage(imageReq);
    System.out.println(ciUploadResult.getOriginalInfo().getEtag());
    for(CIObject ciObject:ciUploadResult.getProcessResults().getObjectList()) {
        System.out.println(ciObject.getLocation());
        System.out.println(ciObject.getEtag());
    }
} catch (CosServiceException e) {
    e.printStackTrace();
} catch (CosClientException e) {
    e.printStackTrace();
}
```

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Image Advanced Compression

Last updated：2024-02-29 17:31:27

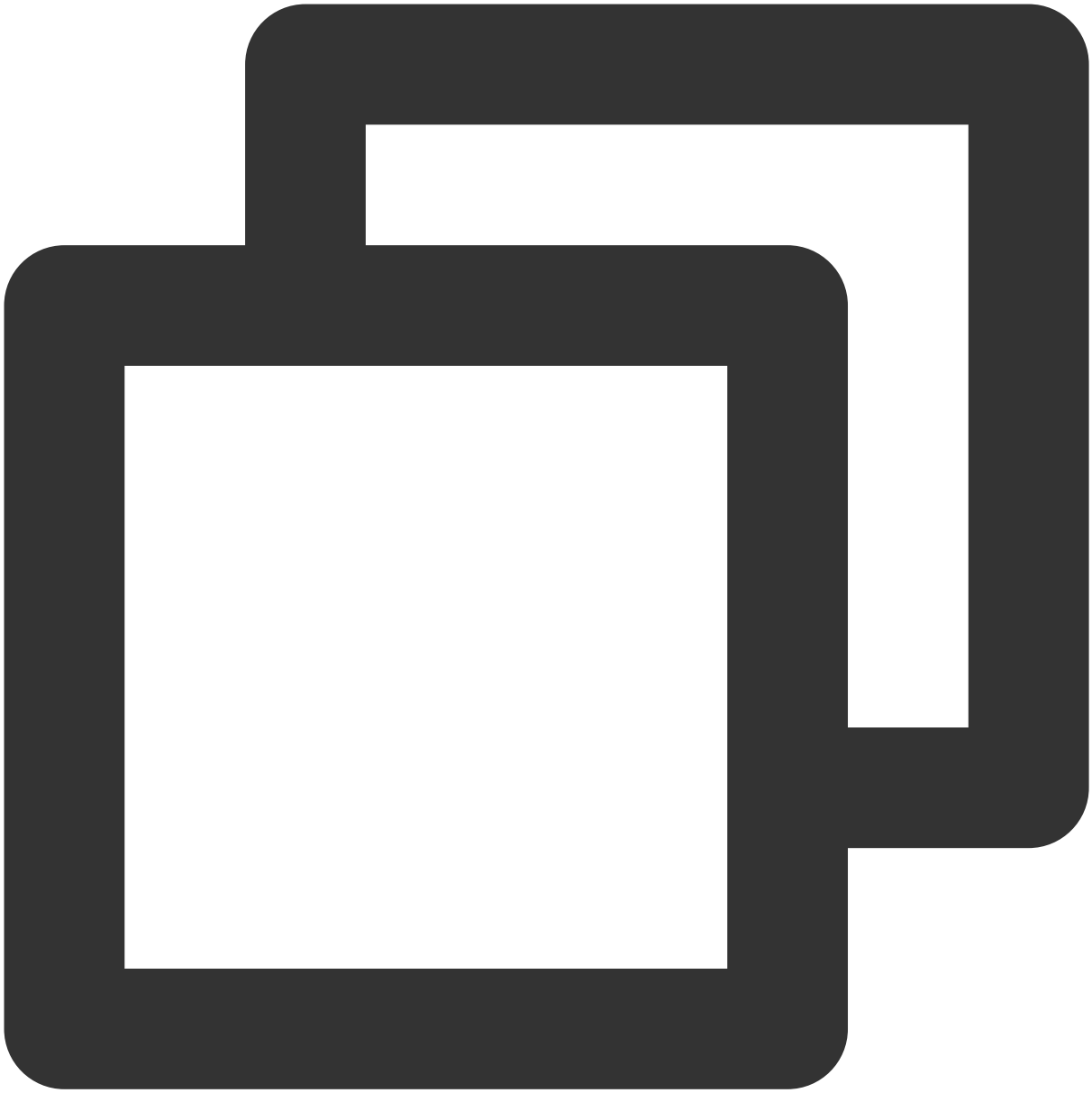
Overview

This document provides an overview of APIs and SDK code samples for image advanced compression.

API	Description
Image advanced compression	The image advanced compression feature 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.

Sample code

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```
GetObjectRequest getObj = new GetObjectRequest(bucketName, key);
// The following are sample parameters for image compression. For more information,
String compress = "imageMogr2/format/tpg";
getObj.putCustomQueryParameter(compress, null);
```

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Blind Watermark

Last updated：2024-02-29 17:31:27

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.

API	Description
Blind watermarking	Adds blind watermark to or extracts blind watermark from local image and uploads it to bucket.

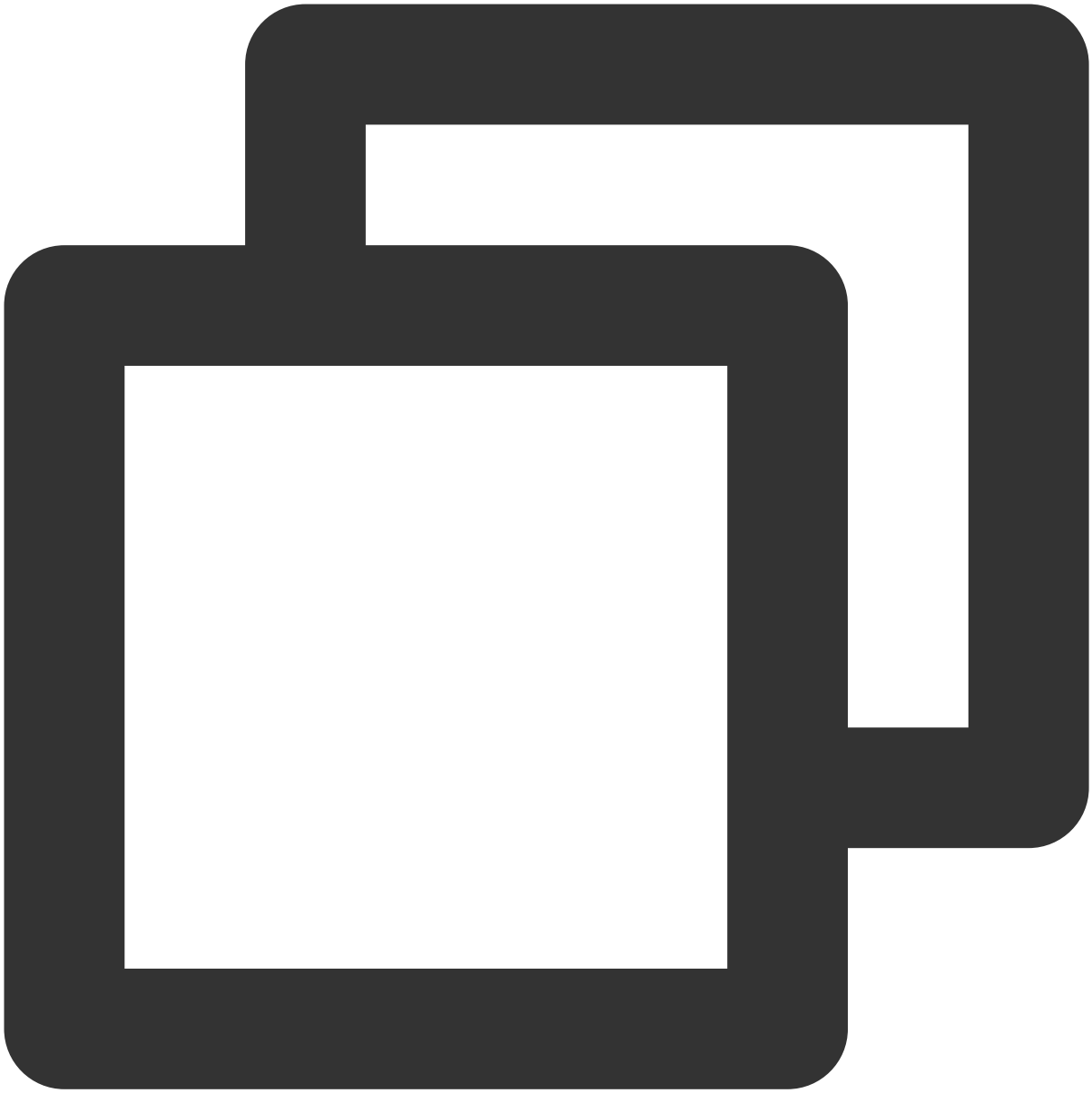
Adding Blind Watermark

Feature description

You can add a blind watermark when uploading or downloading an object.

Sample: Adding a blind watermark during upload

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```
// The bucket name must contain `appid`.
// For the API description, visit https://intl.cloud.tencent.com/document/product/4
String bucketName = "examplebucket-1250000000";

String key = "test.png";
File localFile = new File("E://test.png");
PutObjectRequest putObjectRequest = new PutObjectRequest(bucketName, key, localFile
PicOperations picOperations = new PicOperations();
picOperations.setIsPicInfo(1);
List<PicOperations.Rule> ruleList = new LinkedList<>();
PicOperations.Rule rule = new PicOperations.Rule();
```

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```
rule.setBucket(bucketName);
rule.setFileId("test-watermark.png");
rule.setRule("watermark/3/type/3/text/dGVuY2VudCBjbG91ZA==");
ruleList.add(rule);
picOperations.setRules(ruleList);
putObjectRequest.setPicOperations(picOperations);
try {
    PutObjectResult putObjectResult = cosClient.putObject(putObjectRequest);
    CIUploadResult ciUploadResult = putObjectResult.getCiUploadResult();
    System.out.println(putObjectResult.getRequestId());
    System.out.println(ciUploadResult.getOriginalInfo().getEtag());
    for(CIObject ciObject:ciUploadResult.getProcessResults().getObjectList()) {
        System.out.println(ciObject.getLocation());
    }
} catch (CosServiceException e) {
    e.printStackTrace();
} catch (CosClientException e) {
    e.printStackTrace();
}
```

Parameter description

The `PicOperations` class is used to record image operations. Its main members are as described below:

Member	Description	Type
isPicInfo	Whether to return the input image information. Valid values: 0 (no), 1 (yes). Default value: 0.	int
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.	List

Response parameter description

The `CIUploadResult` class is used to return the image processing result. Its main members are as described below:

Member	Description	Type
originalInfo	Input image information	OriginalInfo
processResults	Image processing result	ProcessResults

The `OriginalInfo` class is used to record the input image information. Its main members are as described below:

Member	Description	Type

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key	Name of the input image	String
location	Image path	String
imageInfo	Input image information	ImageInfo

The `ImageInfo` class is used to record the input image information. Its main members are as described below:

Member	Description	Type
format	Format	String
width	Image width	Integer
height	Image height	Integer
quality	Image quality	Integer
ave	Image average hue	String
orientation	Image rotation angle	Integer

The `ProcessResults` class is used to record the image processing results. Its main members are as described below:

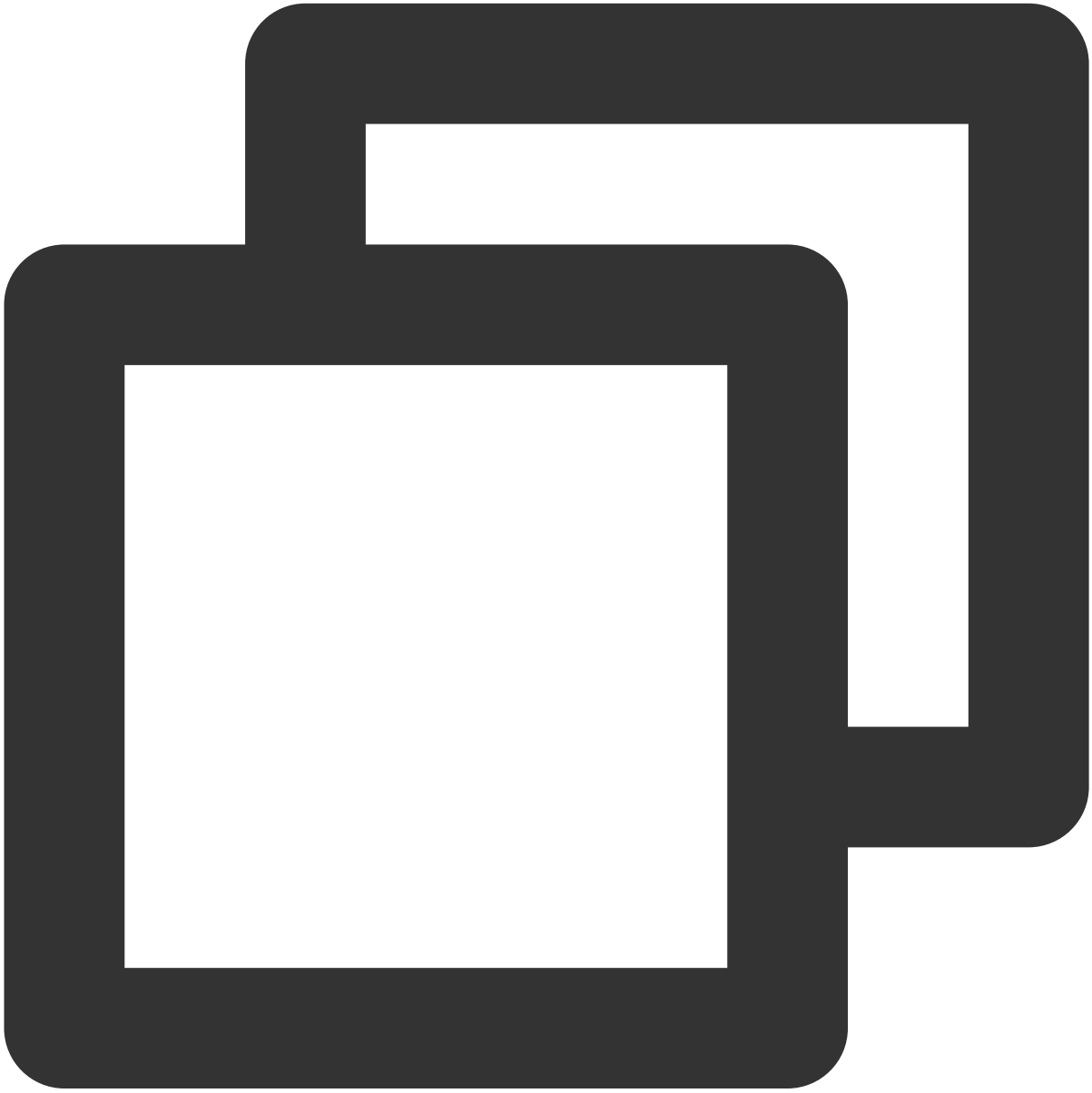
Member	Description	Type
objectList	Processing result of each image	List

The `CIObject` class is used to record the processing result of a single image. Its main members are as described below:

Member	Description	Type
key	Filename	String
location	Image path	String
format	Image format	String
width	Image width	Integer
height	Image height	Integer
size	Image size	Integer
quality	Image quality	Integer

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Sample: Adding a blind watermark during download



```
GetObjectRequest getObj = new GetObjectRequest(bucketName, key);
// The following are blind watermarking rules. For more information, see the API de
String rule = "watermark/3/type/3/text/dGVuY2VudCBjbG91ZA==";
getObj.putCustomQueryParameter(rule, null);

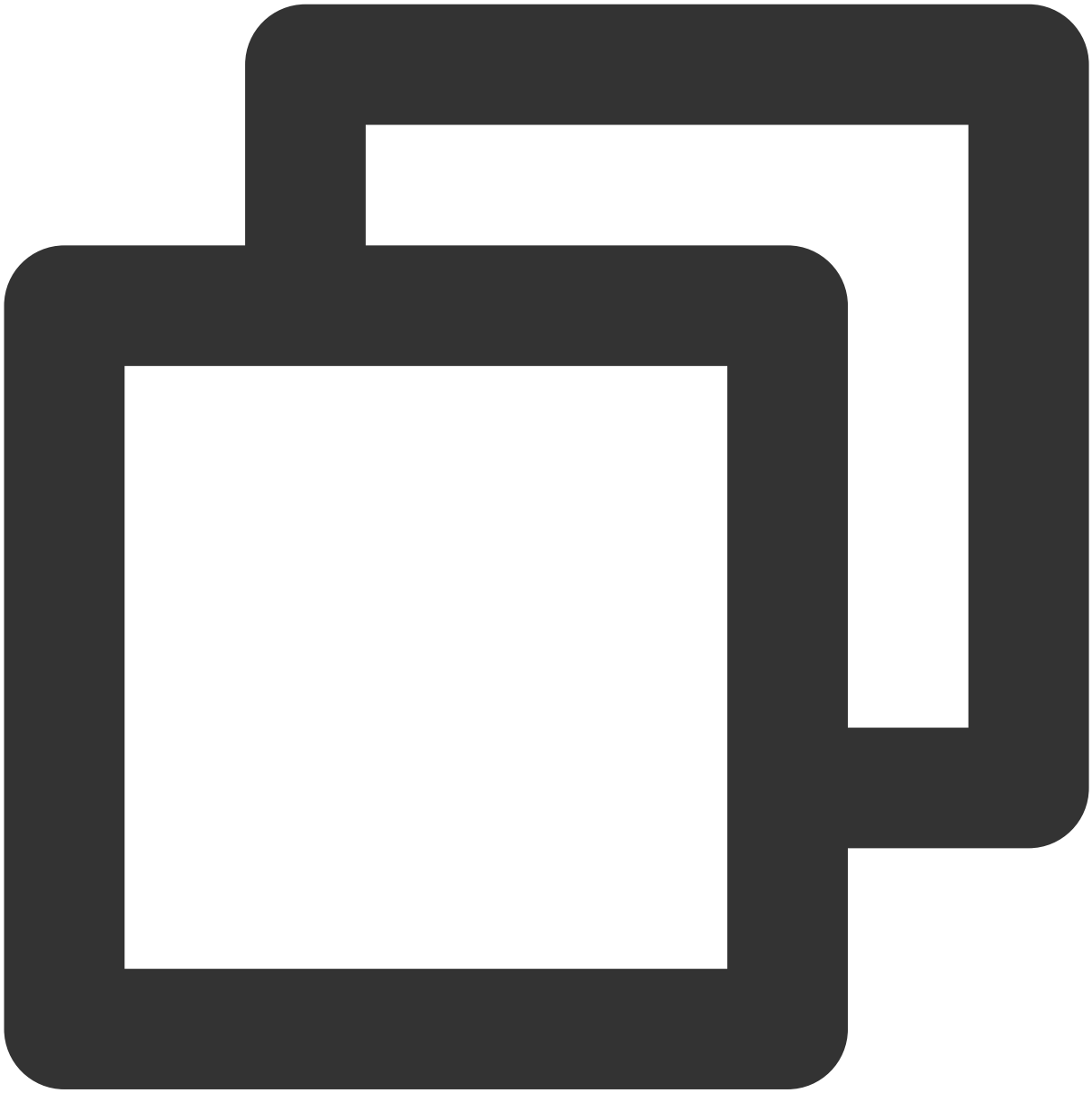
cosClient.getObject(getObj);
```

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Extracting Blind Watermark

The following example shows how to extract a blind watermark from an image.

Sample code



```
String bucketName = "examplebucket-1250000000";
String key = "qrcode-watermark.png";
File localFile = new File("E://qrcode-watermark.png");
PutObjectRequest putObjectRequest = new PutObjectRequest(bucketName, key, localFile
```

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```
PicOperations picOperations = new PicOperations();
picOperations.setIsPicInfo(1);
List<PicOperations.Rule> ruleList = new LinkedList<>();
PicOperations.Rule rule = new PicOperations.Rule();
rule.setBucket(bucketName);
rule.setFileId("qrcode-watermark-extract.png");
rule.setRule("watermark/4/type/2/image/aHR0cDovL2V4YW1wbGVidWNrZXQtMTI1MDAwMDAwMC5j
ruleList.add(rule);
picOperations.setRules(ruleList);
putObjectRequest.setPicOperations(picOperations);
try {
    PutObjectResult putObjectResult = cosClient.putObject(putObjectRequest);
    CIUploadResult ciUploadResult = putObjectResult.getCiUploadResult();
    System.out.println(putObjectResult.getRequestId());
    System.out.println(ciUploadResult.getOriginalInfo().getEtag());
    for(CIObject ciObject:ciUploadResult.getProcessResults().getObjectList()) {
        System.out.println(ciObject.getLocation());
        System.out.println(ciObject.getWatermarkStatus());
    }
} catch (CosServiceException e) {
    e.printStackTrace();
} catch (CosClientException e) {
    e.printStackTrace();
}
```

Parameter description

The `PicOperations` class is used to record image operations. Its main members are as described below:

Member	Description	Type
isPicInfo	Whether to return the input image information. Valid values: 0 (no), 1 (yes). Default value: 0.	int
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.	List

Response parameter description

The `CIUploadResult` class is used to return the image processing result. Its main members are as described below:

Member	Description	Type
originalInfo	Input image information	OriginalInfo
processResults	Image processing result	ProcessResults

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The `OriginalInfo` class is used to record the input image information. Its main members are as described below:

Member	Description	Type
key	Name of the input image	String
location	Image path	String
imageInfo	Input image information	ImageInfo

The `ImageInfo` class is used to record the input image information. Its main members are as described below:

Member	Description	Type
format	Format	String
width	Image width	Integer
height	Image height	Integer
quality	Image quality	Integer
ave	Image average hue	String
orientation	Image rotation angle	Integer

The `ProcessResults` class is used to record the image processing results. Its main members are as described below:

Member	Description	Type
objectList	Processing result of each image	List

The `CIObject` class is used to record the processing result of a single image. Its main members are as described below:

Member	Description	Type
key	Filename	String
location	Image path	String
format	Image format	String
width	Image width	Integer

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height	Image height	Integer
size	Image size	Integer
quality	Image quality	Integer
watermarkStatus	This parameter will be returned if `type` is set to `2`, indicating the confidence of the extracted watermark. Value range: 0–100. If the value is above 75, there is a confirmed blind watermark. If the value is between 60 and 75, there is a suspected blind watermark. If the value is below 60, no blind watermark is extracted.	Integer

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AI-Based Content Recognition
Image Tagging

Last updated：2024-02-29 17:31:27

Overview

This document provides an overview of APIs and SDK code samples for image tagging.

API	Description
Tagging image	Recognizes tags in an image stored in COS.

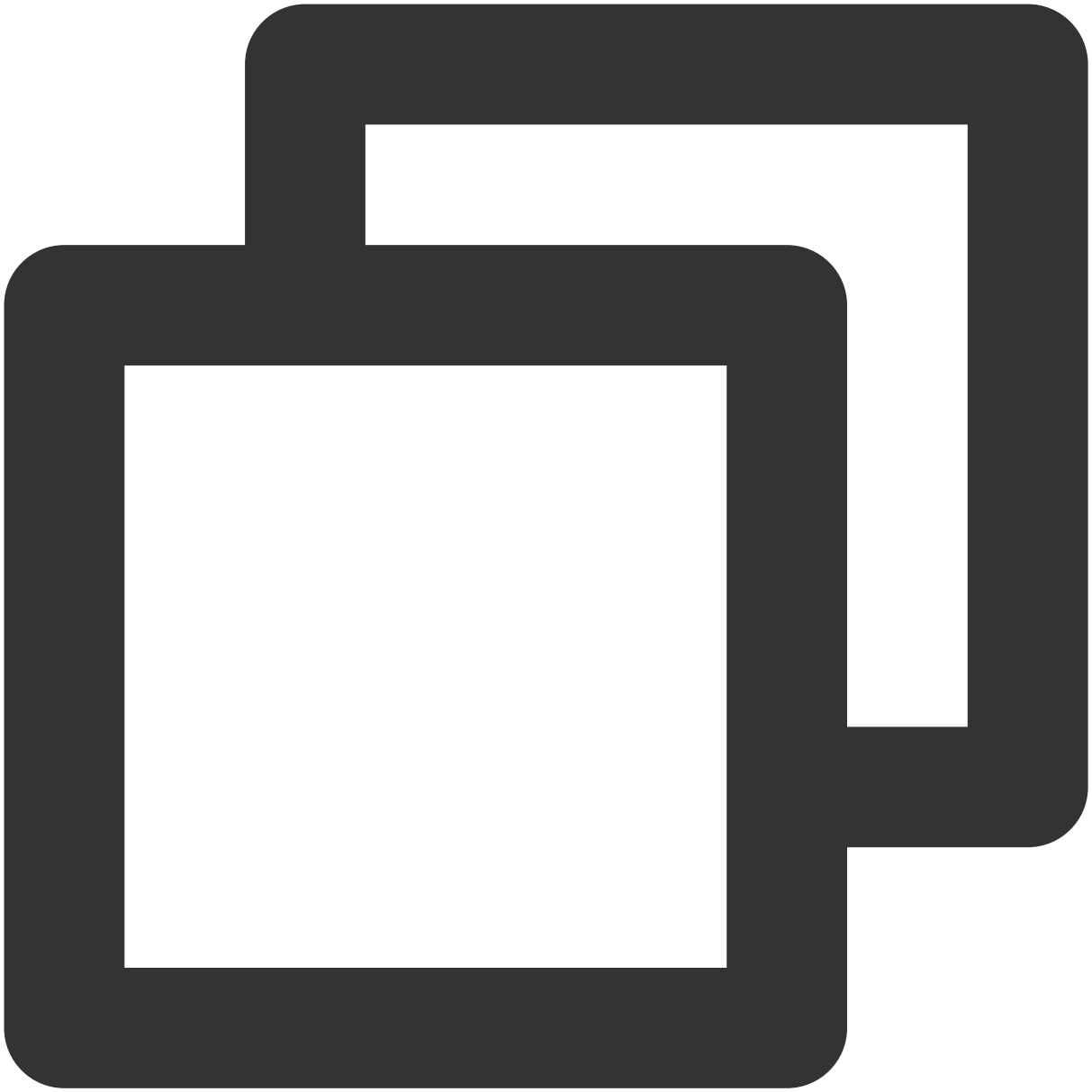
Image Tagging

Feature description

The image tagging feature recognizes tags in images stored in COS by using the persistent processing API of CI and returns tags with a high confidence. Image tagging requests are `GET` requests and need to carry a signature.

Method prototype

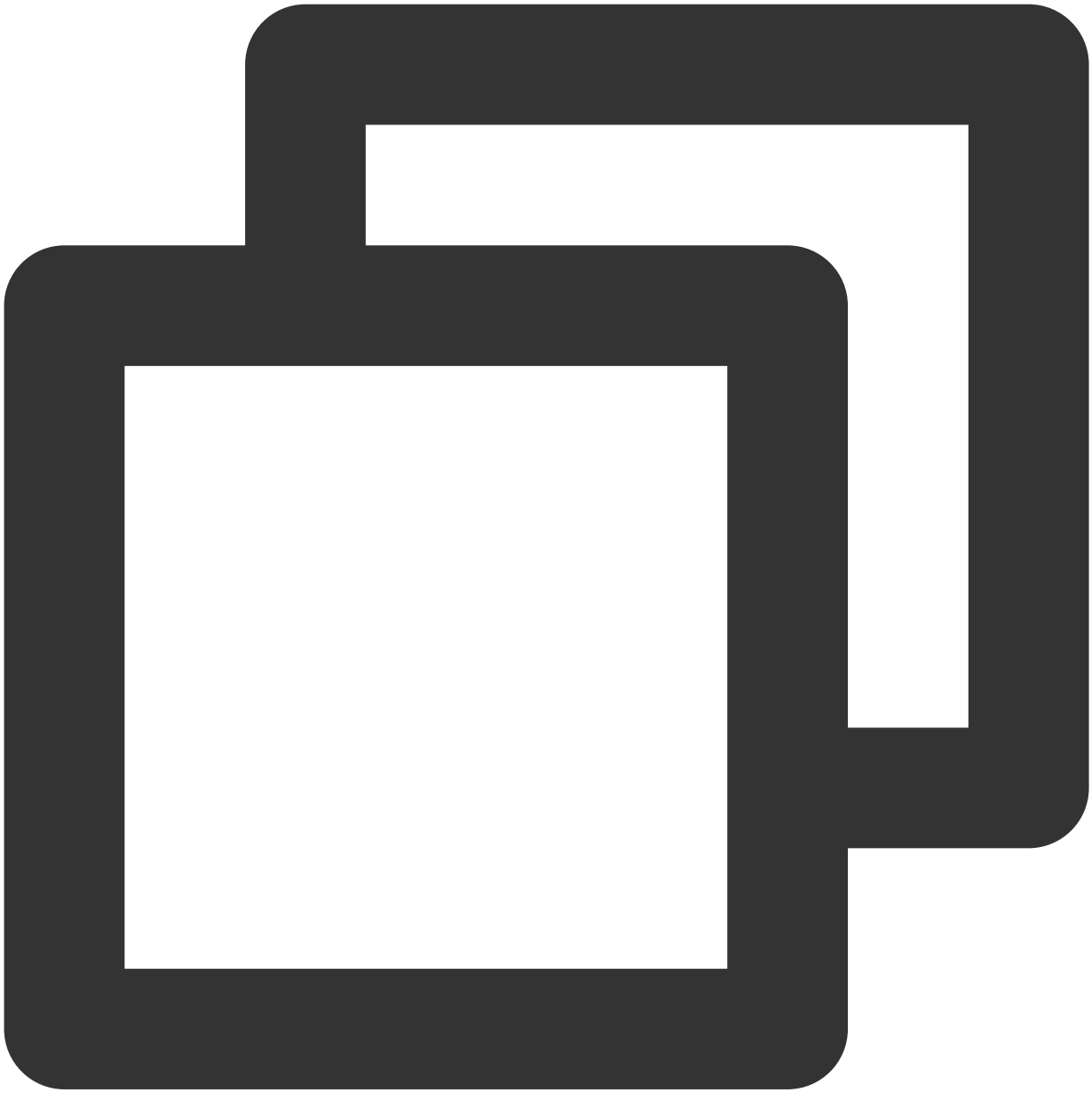
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```
ImageLabelResponse getImageLabel(ImageLabelRequest request);
```

Sample request

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```
//1. Create a job request object
ImageLabelRequest request = new ImageLabelRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("demo-123456789");
request.setObjectKey("1.png");
//3. Call the API to get the job response object
ImageLabelResponse response = client.getImageLabel(request);
```

Parameter description

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`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
bucketName	Request	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
objectKey	Request	Location of the image in the bucket	String	Yes

Response description

Success: An `ImageLabelResponse` instance is returned upon success, which contains the result.

Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

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Vehicle Recognition

Last updated：2024-02-29 17:31:27

Overview

This document provides an overview of APIs and SDK code samples for vehicle recognition.

API	Description
Vehicle and license plate detection	Recognizes vehicles in images.

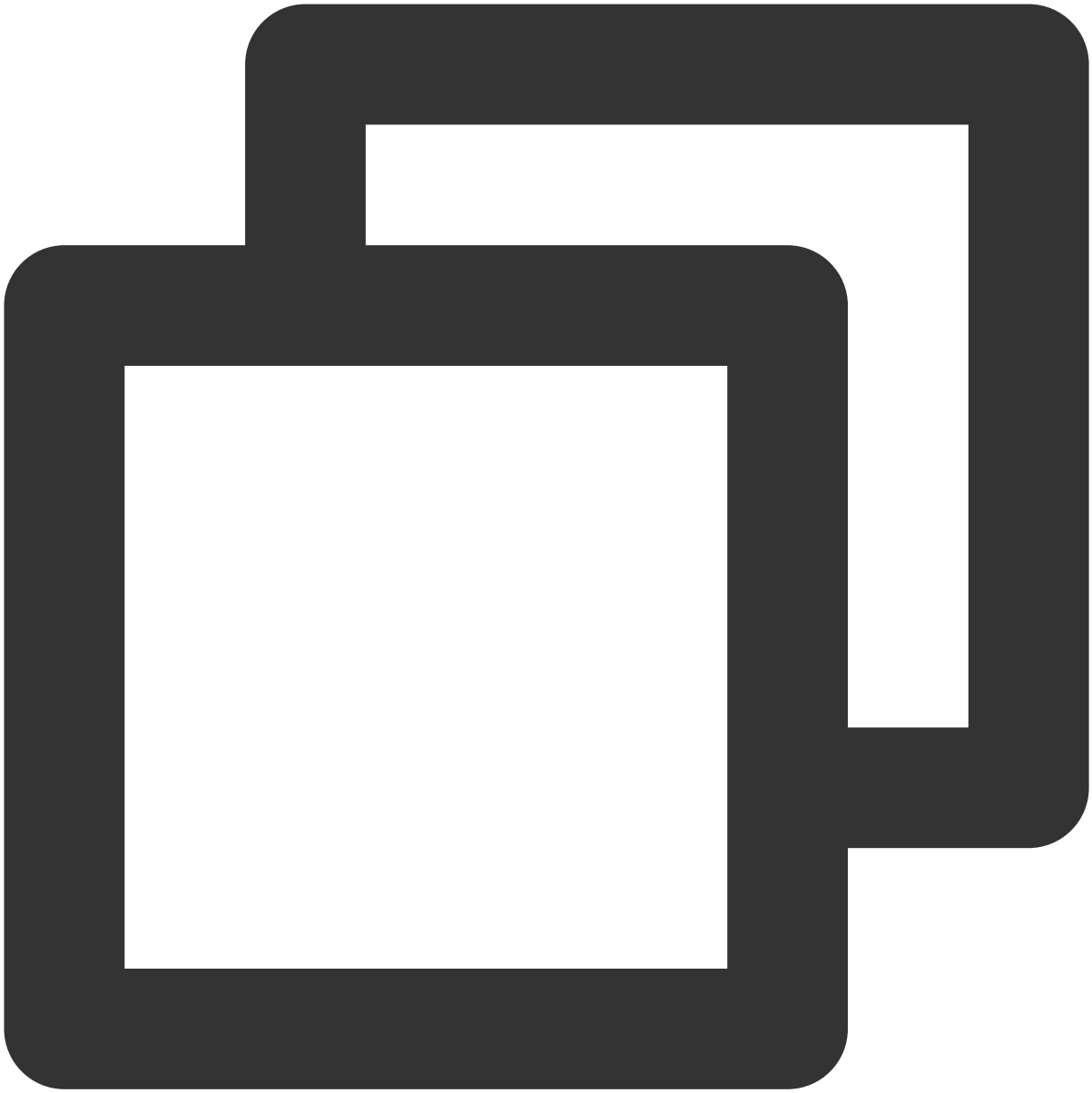
Vehicle and License Plate Detection

Feature description

This feature uses a sync GET request to detect a vehicle in an image and recognize its brand, color, location, and license plate information.

Method prototype

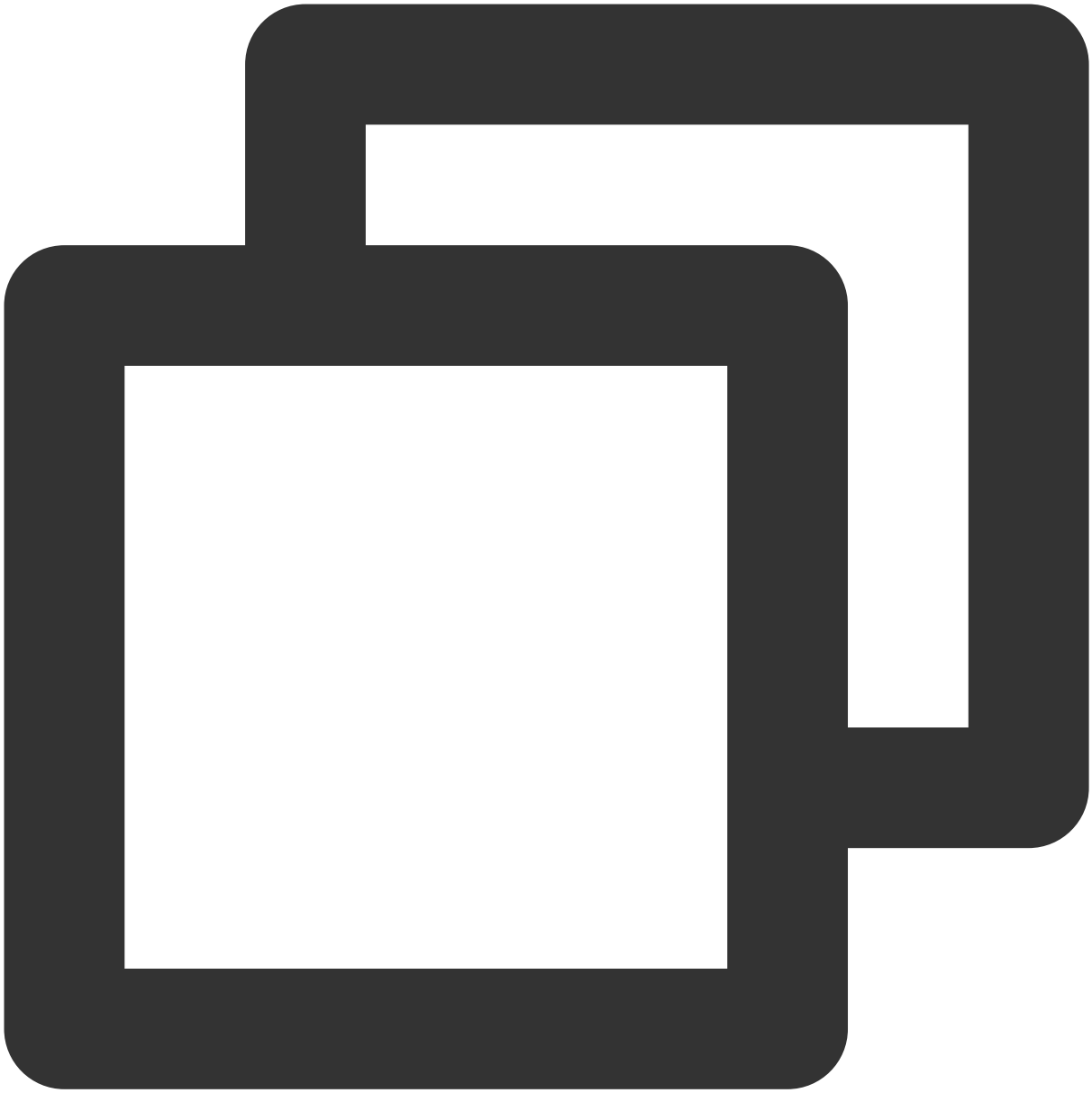
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```
DetectCarResponse detectCar(DetectCarRequest request);
```

Sample request

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```
//1. Create a job request object
DetectCarRequest request = new DetectCarRequest();
//2. Add request parameters as detailed in the API documentation
//2.1 Set the request bucket
request.setBucketName("demobucket-1234567890");
//2.2 Set the image location in the bucket
request.setObjectKey("car.jpg");
DetectCarResponse response = client.detectCar(request);
```

Parameter description

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`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
bucketName	Request	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
objectKey	Request	Location of the image in the bucket	String	Yes

Response description

Success: The `DetectCarResponse` job result object is returned upon success.

Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

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Media Processing Template Operations

Last updated：2024-02-29 17:31:27

Overview

This document provides an overview of APIs and SDK code samples for media processing jobs in CI, with the animated image job as an example.

API	Operation	Description
CreateMediaTemplate	Creating template	Creates template
DeleteMediaTemplate	Deleting template	Deletes template
DescribeMediaTemplates	Querying templates	Queries template list
UpdateMediaTemplate	Modifying template	Modifies template

Basic Operations

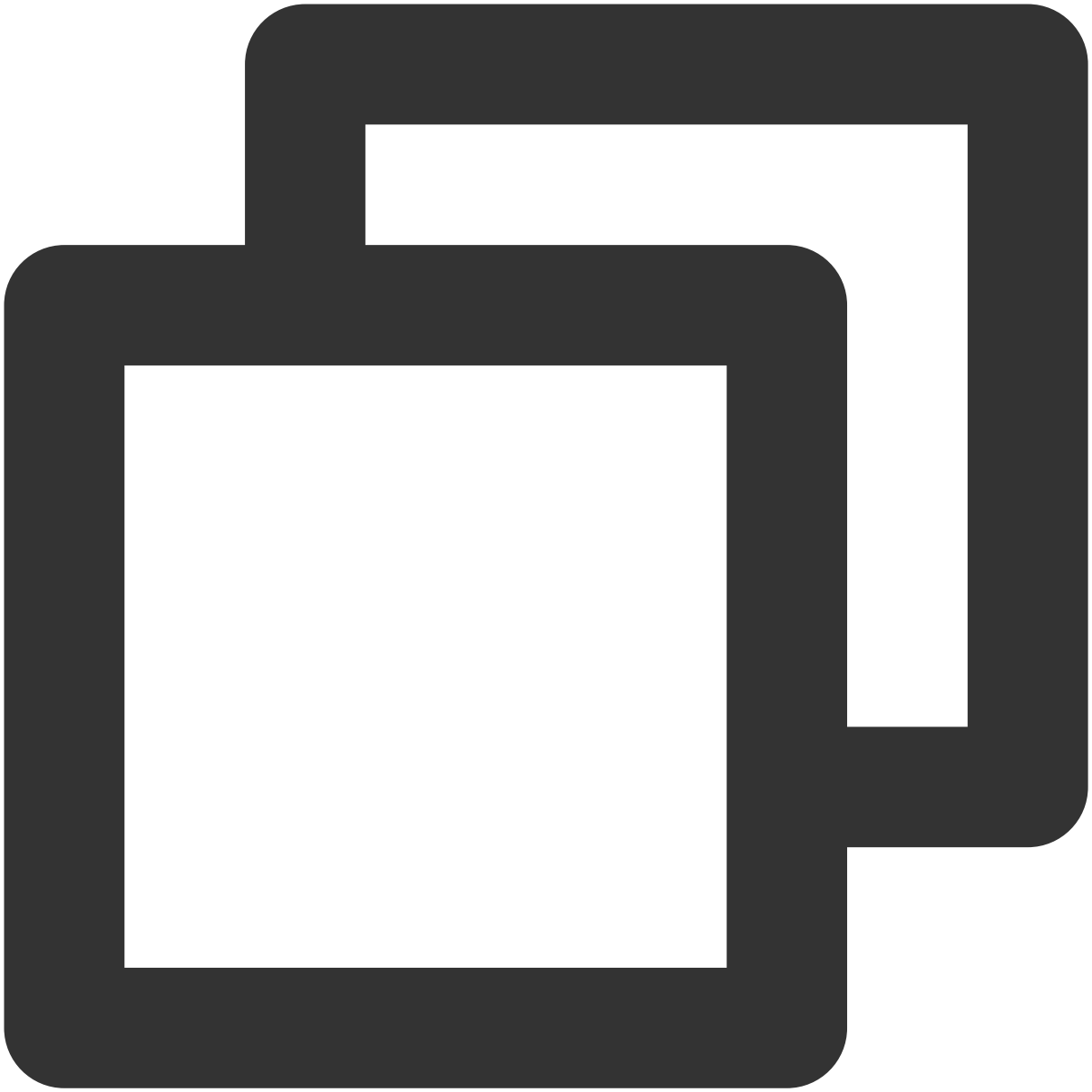
Creating template

Feature description

This API is used to create a template.

Method prototype

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```
public MediaTemplateResponse createMediaTemplate(MediaTemplateRequest request);
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Template type: Animation (animated image); Snapshot (screenshot); Transcode (transcoding);	String	Yes

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		Watermark (watermark); SmartCover (intelligent thumbnail)		
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
Snapshot	Request	Screenshot	Container	No
Watermark	Request	Watermark	Container	No
Audio	Request	Audio information	Container	No
TransConfig	Request	Transcoding configuration	Container	No

`Container` 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	Constraints
Codec	Request.Video	Codec format	String	Yes	None	gif, webp
Width	Request.Video	Width	String	No	Original video width	Value range: [128, 409 Unit: px If only Width is set, Hei calculated according to original video aspect ra
Height	Request.Video	Height	String	No	Original video height	Value range: [128, 409 Unit: px If only Height is set, Wi calculated according to

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						original video aspect ra
Fps	Request.Video	Frame rate	String	No	Original video frame rate	Value range: (0, 60] Unit: fps This parameter is optic it is not set, the video is played at the speed as the original timestamp. parameter specifies the rate for animated imag playback.
AnimateOnly KeepKeyFrame	Request.Video	Keep only keyframes for animated images	String	No	None	Valid values: true, false Specifies whether to ke only keyframes for anir images
AnimateTime IntervalOfFrame	Request.Video	Frame sampling interval for animated images	String	No	None	Value range: (0, video duration] Frame sampling interva animated images The value of this param must be less than the v TimeInterval.Duration i TimeInterval.Duration i
AnimateFrames PerSecond	Request.Video	Number of frames sampled per second for animated images	String	No	None	Value range: (0, video rate) Frame sampling freque for animated images Priority: AnimateFramesPerSec AnimateOnlyKeepKeyF > AnimateTimeIntervalO
Quality	Request.Video	Relative quality	String	No	None	Value range: [1, 100) This parameter will tak effect for WEBP image is not available for GIF images.

`TimeInterval` has the following sub-nodes:

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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	Video duration	Value range: [0, video duration] Unit: Second The float format is supported, accurate to the millisecond.

`Snapshot` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Mode	Request.Snapshot	Screenshot mode	String	Yes	Interval	Valid values: {Interval, Average} Interval: Interval mode. Average: Average mode Interval mode: The Start, TimeInterval, and Count parameters take effect. If Count is set and TimeInterval is not set, all frames will be captured, and the total number of images captured will be specified by Count.

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						Average mode: The Start and Count parameters take effect, indicating to capture a total of Count images at an average interval from Start to the end of the video.
Start	Request.Snapshot	Start time	String	Yes	0	Value range: [0, video duration] Unit: Second The float format is supported, accurate to the millisecond.
TimeInterval	Request.Snapshot	Screenshot time interval	String	No	None	Value range: (0, 3600] Unit: Second The float format is supported, accurate to the millisecond.
Count	Request.Snapshot	Number of screenshots	String	Yes	None	(0, 10000]
Width	Request.Snapshot	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.
Height	Request.Snapshot	Height	String	No	Original video height	Value range: [128, 4096] Unit: px If only Height is set, Width is

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						calculated according to the original video aspect ratio.

`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
LocMode	Request.Watermark	Offset mode	String	Yes	None	Relativity: Proportionally. Absolute: Fixed position.
Dx	Request.Watermark	Horizontal offset	String	Yes	None	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].
Dy	Request.Watermark	Vertical offset	String	Yes	None	If locMode is Relativity, the unit is %, and the value range is [0, 100] If locMode is Absolute, the unit is px, and the

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						value range is [0, 4096].
StartTime	Request.Watermark	Watermark start time	String	No	0	Value range: [0, video duration] Unit: Second The float format is supported, accurate to the millisecond.
EndTime	Request.Watermark	Watermark end time	String	No	Video end time	Value range: [0, video duration] Unit: Second The float format is supported, accurate to the millisecond.
Image	Request.Watermark	Image watermark node	Container	No	None	None
Text	Request.Watermark	Text watermark node	Container	No	None	None

`Image` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Url	Request.Watermark.Image	Watermark image address	String	Yes	None	Same as th watermark image address of the bucket.
Mode	Request.Watermark.Image	Dimension mode	String	Yes	None	Original: Original siz Proportion: Scaled proportiona Fixed: Fixe size

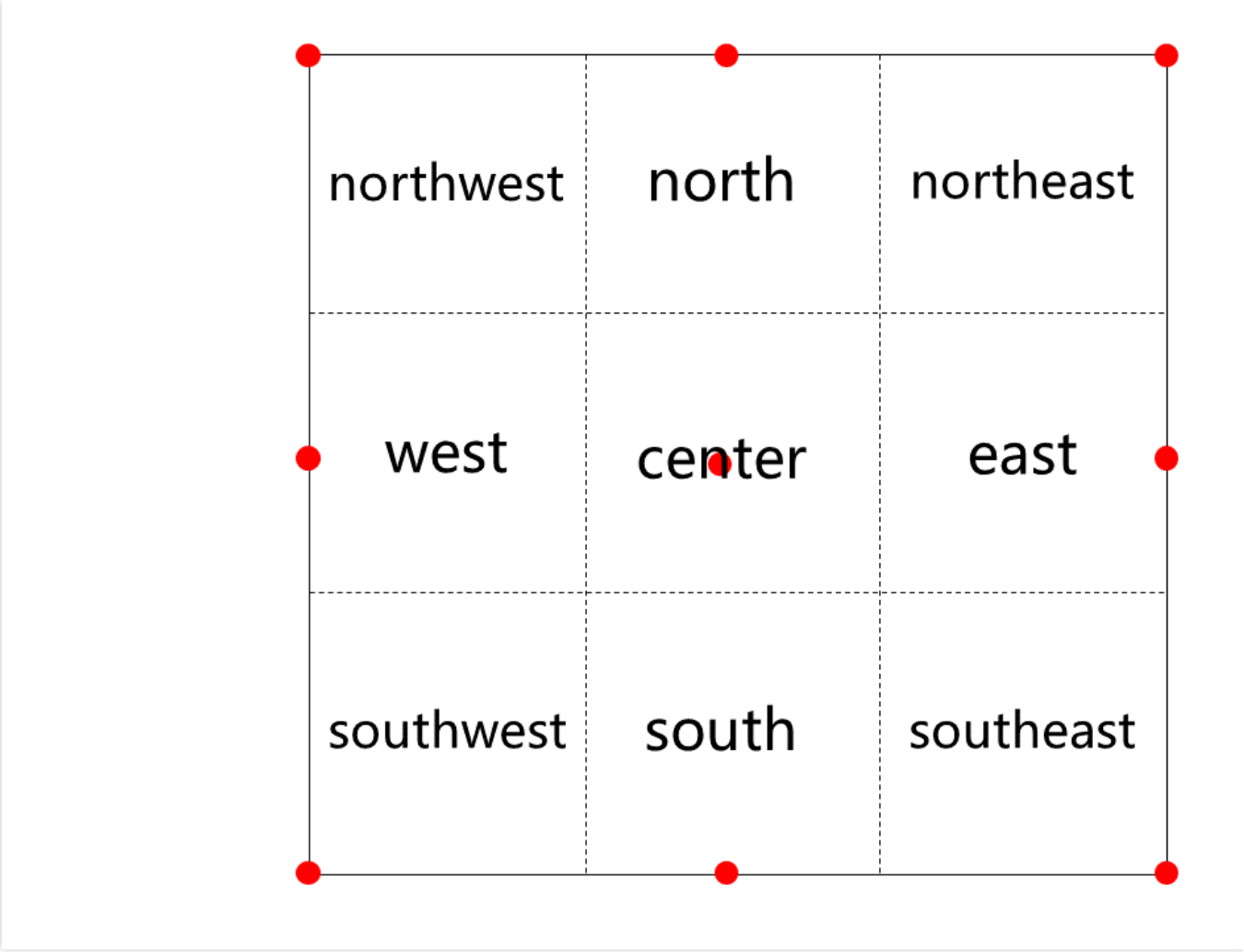
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Width	Request.Watermark.Image	Width	String	No	None	If Mode is Original, th parameter the watermark image widt If Mode is Proportion, the unit is % and the val range is [1, 100]. If Mode is Fixed, the unit is px, and the val range is [1, 4096]. If only Widt is set, Heig is calculate according t the original video aspe ratio.
Height	Request.Watermark.Image	Height	String	No	None	If Mode is Original, th parameter the watermark image heig If Mode is Proportion, the unit is % and the val range is [1, 100]. If Mode is Fixed, the unit is px, and the val range is [1, 4096]. If only Heig is set, Widt

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						is calculate according t the original video aspe ratio.
Transparency	Request.Watermark.Image	Transparency	String	Yes	None	Value rang [1, 100]. Ur %

Watermark position description:



`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,

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						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: %
Text	Request.Watermark.Text	Watermark content	String	Yes	None	The value can be 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

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Helvetica.dfont	English	None
HelveticaNeue.dfont	English	None

Audio/Video formats supported by different container formats are as follows:

Container	Audio Codecs	Video Codecs
flv/mp4/ts/hls	AAC, MP3	H.264
AAC	AAC	Not supported
MP3	MP3	Not supported

`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	Unit: Hz Valid values: 11025, 22050, 32000, 44100, 48000, 96000. Different container formats support different MP3 sample rates, as shown in the table below.
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, the value can be 1, 2, 4, 5, 6, or 8. 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.

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Y indicates supported, and N indicates unsupported.

Container Format/Audio Sample Rate	11025	22050	32000	44100	48000	96000
flv	Y	Y	N	Y	N	N
mp4	N	Y	Y	Y	Y	N
avi/hls/ts/mp3	Y	Y	Y	Y	Y	N

`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, pad, If the aspe the output different fr the origina the resolu to be adju according parameter
IsCheckReso	Request.TransConfig	Whether to check the resolution	String	No	false	Valid valu false. If the valu transcodir performec settings.
ResoAdjMethod	Request.TransConfig	Resolution adjustment method	String	No	0	Valid valu indicates original vi resolution indicates the transc failure me This para take effec when IsCh is true.
IsCheckVideoBitrate	Request.TransConfig	Whether to check the	String	No	false	Valid valu false.

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		video bitrate				If the valu transcodir performec settings.
VideoBitrateAdjMethod	Request.TransConfig	Video bitrate adjustment method	String	No	0	Valid valu indicates original vi bitrate, an indicates the transc failure me This para take effec when IsCheckV is true.
IsCheckAudioBitrate	Request.TransConfig	Whether to check the audio bitrate	String	No	false	Valid valu false. If the valu transcodir performec settings.
AudioBitrateAdjMethod	Request.TransConfig	Audio bitrate adjustment method	String	No	0	Valid valu indicates original au bitrate, an indicates the transc failure me This para take effec when IsCheckA is true.

`Video` 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

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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.
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.
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	true/false
Profile	Request.Video	Encoding level	String	No	high	Valid values: baseline, main, high. 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] Unit: Kbps
Crf	Request.Video	Bitrate, which is a quality control factor	String	No	None	Value range: (0, 51] If Crf is set, the setting of Bitrate will become invalid.
Gop	Request.Video	Maximum	String	No	None	Value range: [1,

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		number of frames between two keyframes				100000]
Preset	Request.Video	Video algorithm preset	String	No	medium	Only H.264 supports this parameter. Valid values: veryfast, fast, medium, slow, slower.
Bufsize	Request.Video	Buffer size	String	No	None	Value range: [1000, 128000] Unit: Kb
Maxrate	Request.Video	Peak video bitrate	String	No	None	Value range: [10, 50000] Unit: Kbps
HlsTsTime	Request.Video	HLS segment time	String	No	5	Value range: (0, video duration] Unit: Second
Pixfmt	Request.Video	Video color format	String	No	None	Valid values: yuv420p, yuv422p, yuv444p, yuvj420p, yuvj422p, yuvj444p.

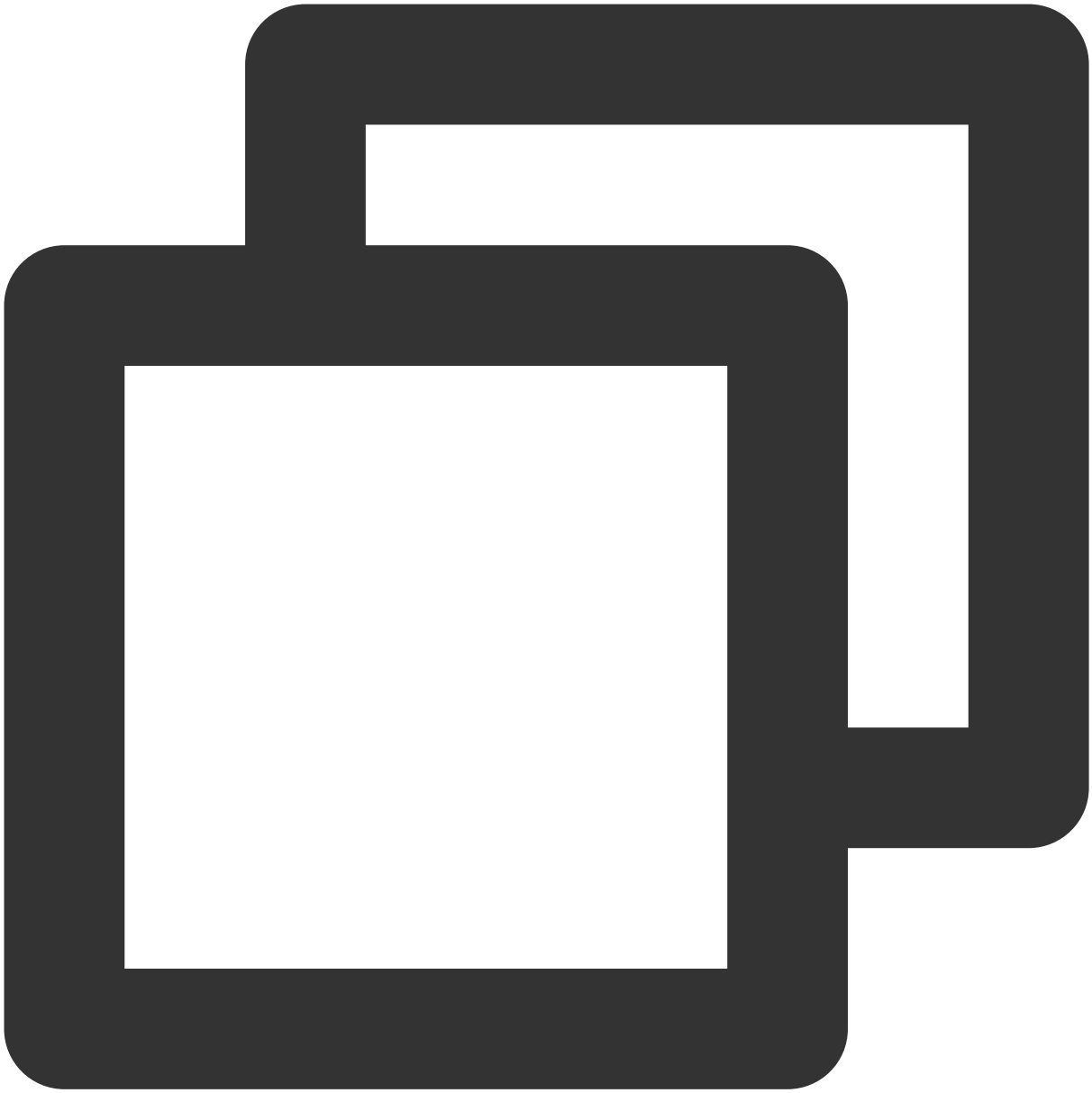
Response description

Success: The `MediaTemplateResponse` object response information is returned, which contains the details of the created template.

Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

Sample request

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```
//1. Create a template request object
MediaTemplateRequest request = new MediaTemplateRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setTag("Animation");
request.setName("TestTemplate40");
request.getContainer().setFormat("gif");
request.getVideo().setCodec("gif");
request.getVideo().setWidth("1280");
request.getVideo().setFps("15");
request.getVideo().setAnimateOnlyKeepKeyFrame("true");
```

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```
request.getTimeInterval().setStart("0");
request.getTimeInterval().setDuration("60");
//3. Call the API to get the template response object
MediaTemplateResponse response = client.createMediaTemplate(request);
```

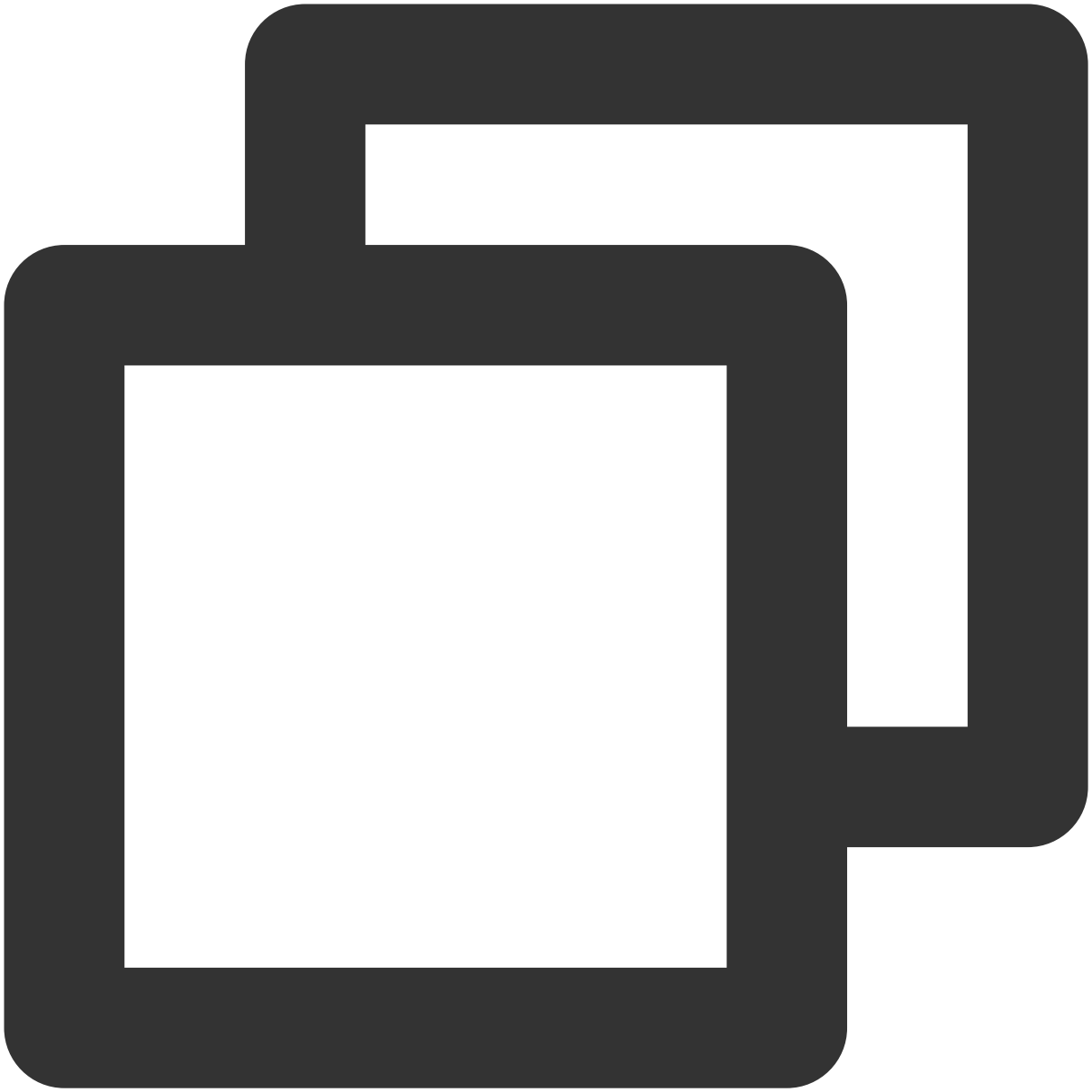
Deleting template

Feature description

This API is used to delete a template.

Method prototype

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```
public Boolean deleteMediaTemplate(MediaTemplateRequest request);
```

Parameter description

Parameter	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
templateId	ID of the template to be canceled	String	Yes

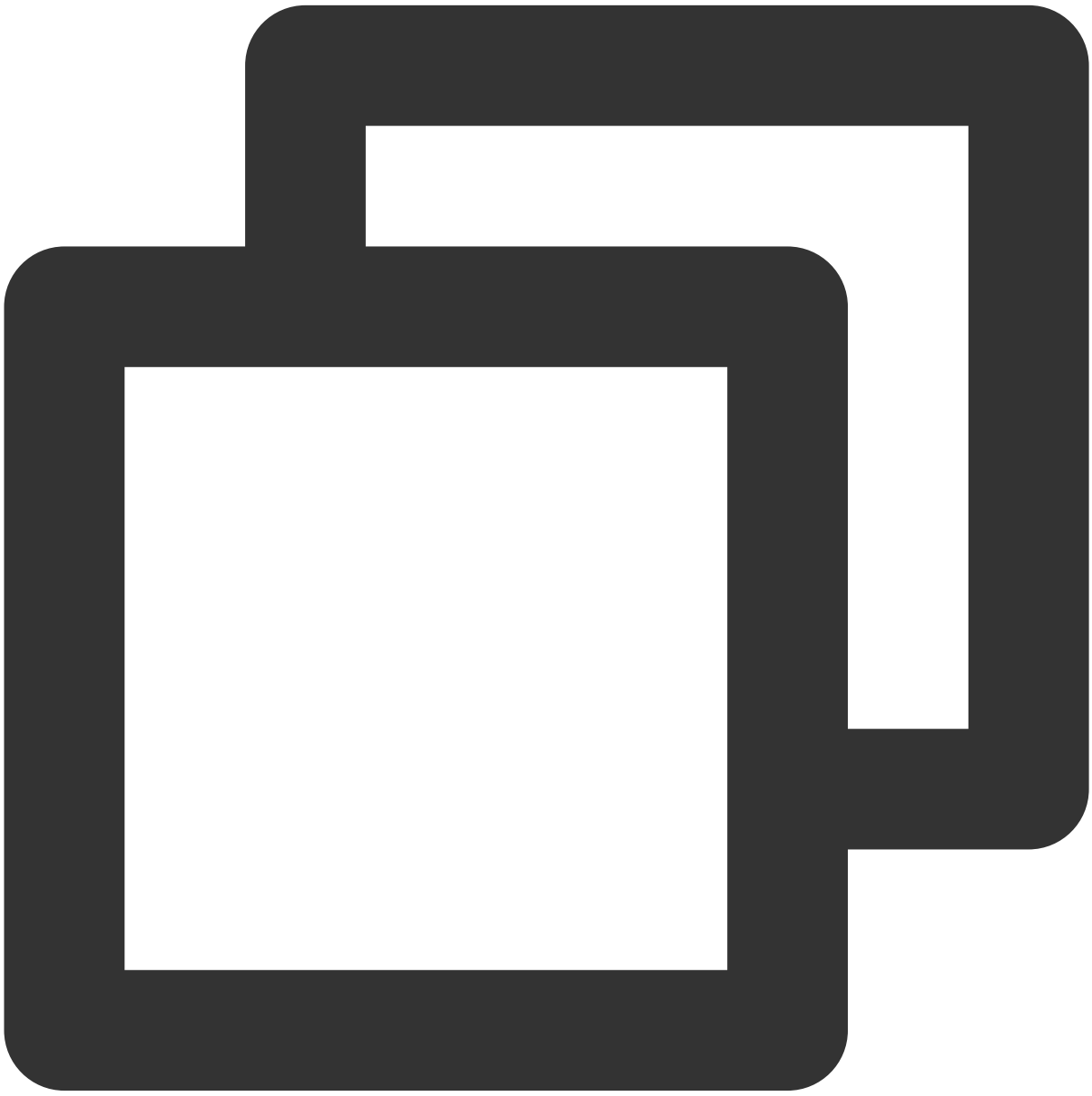
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Response description

Success: A boolean type is returned, which is `true` upon deletion success.

Failure: If an error (such as authentication failure) occurs, the `CosClientException` or `CosServiceException` exception will be reported. For more information, see Troubleshooting.

Sample request



```
MediaTemplateRequest request = new MediaTemplateRequest();
request.setBucketName("examplebucket-1250000000");
request.setTemplateId("t19c4a60ae1a694621a01f0c7130c*****");
```

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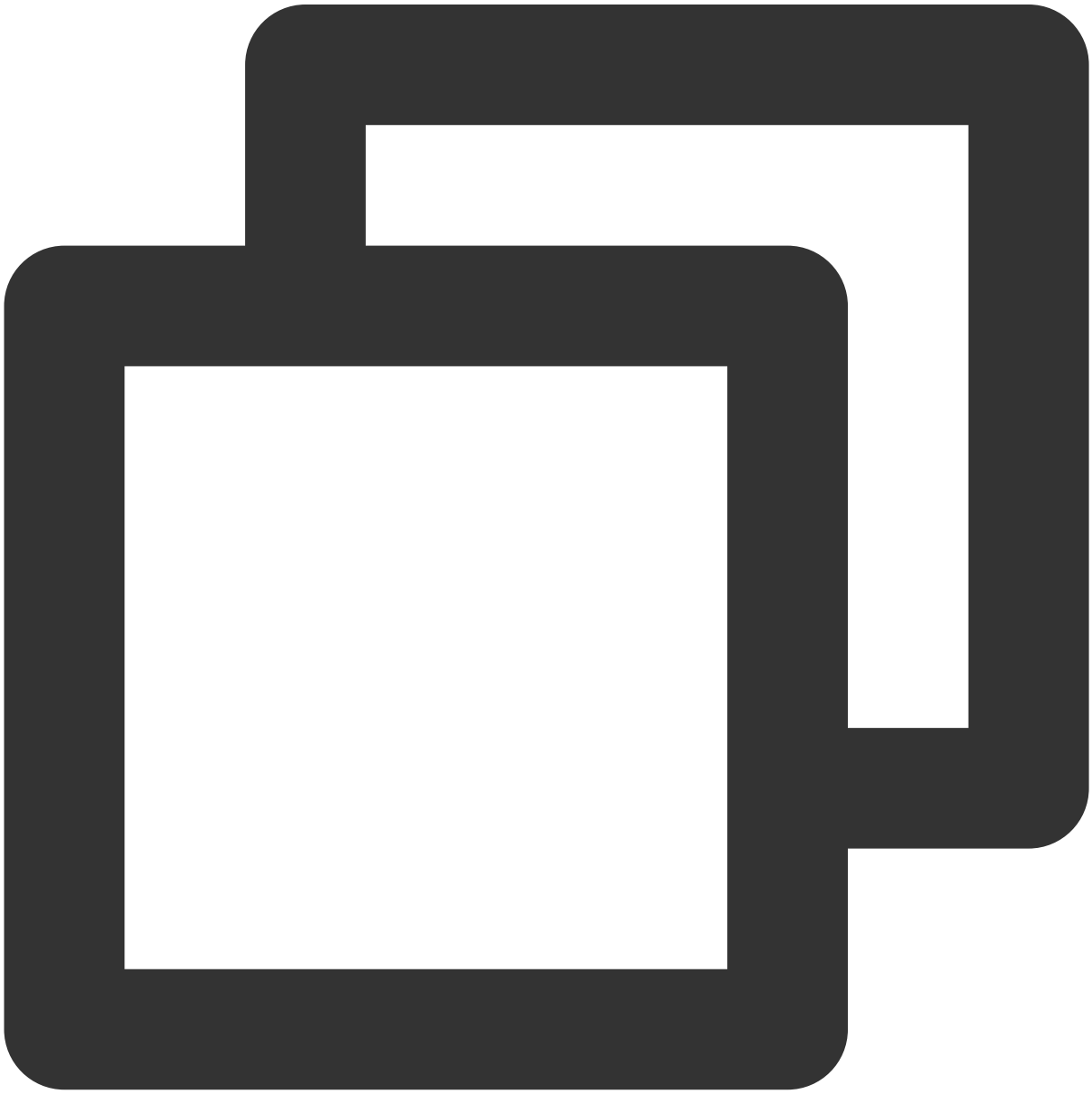
```
Boolean response = client.deleteMediaTemplate(request);
```

Querying template list

Feature description

This API is used to query the template list.

Method prototype



```
public MediaJobResponse describeMediaJob(MediaJobsRequest req);
```

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Parameter description

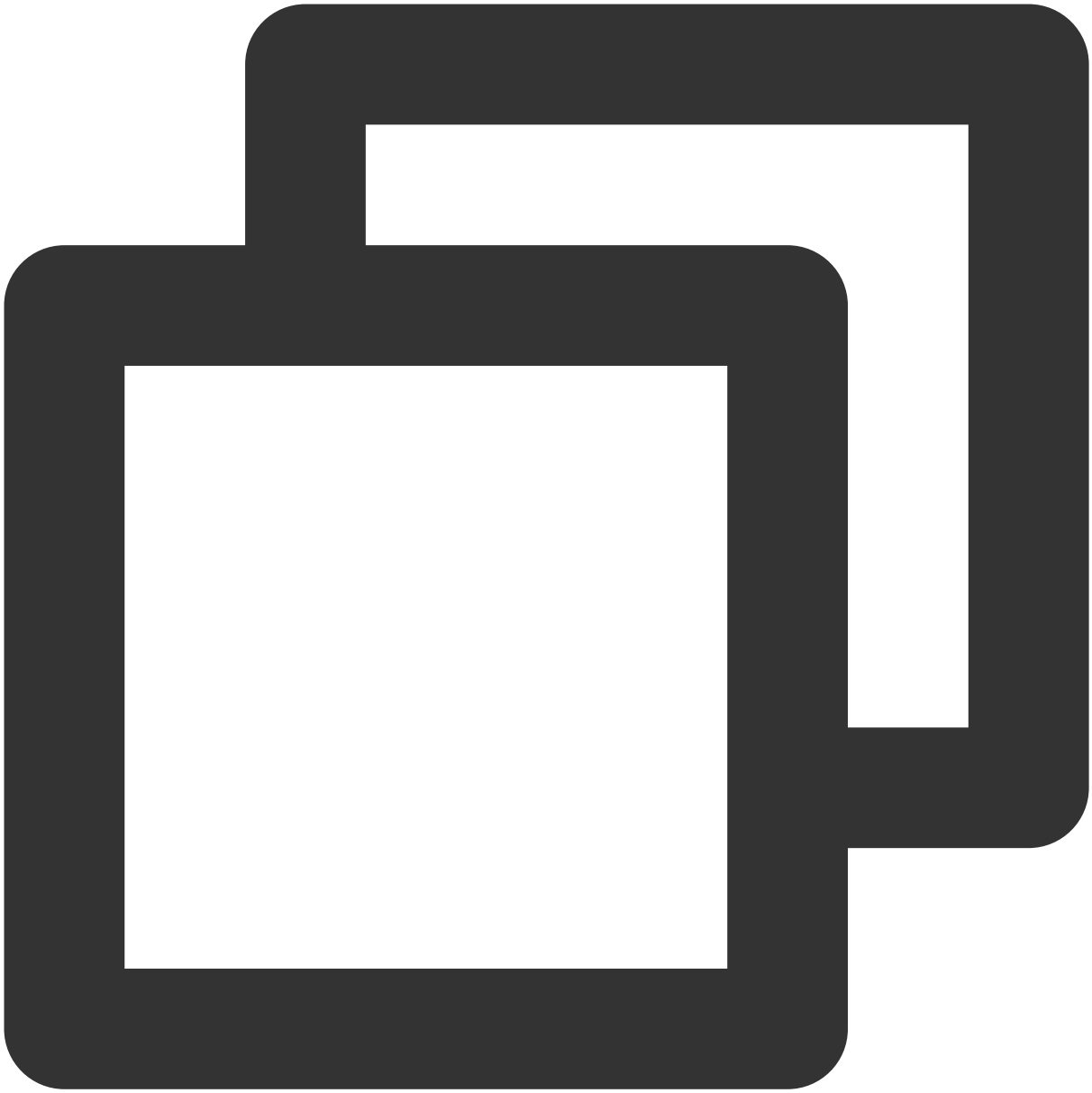
Parameter	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
tag	Template tag: Animation (animated image); Snapshot (screenshot); Transcode (transcoding); Watermark (watermark); SmartCover (intelligent thumbnail)	String	Yes
category	Template category. Valid values: `Custom`, `Official`. Default value: `Custom`.	String	No
ids	Template ID. If you enter multiple IDs, separate them by comma.	String	No
name	Template name prefix	String	No
pageNumber	Page number	Integer	No
pageSize	Number of entries per page	Integer	No

Response description

Success: A template response wrapper class is returned, which contains the template details set `templateList`.
Failure: If an error (such as authentication failure) occurs, the `CosClientException` or `CosServiceException` exception will be reported. For more information, see Troubleshooting.

Sample request

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```
//1. Create a job request object
MediaTemplateRequest request = new MediaTemplateRequest();
request.setBucketName("examplebucket-1250000000");
MediaListTemplateResponse response = client.describeMediaTemplates(request);
List<MediaTemplateObject> templateList = response.getTemplateList();
```

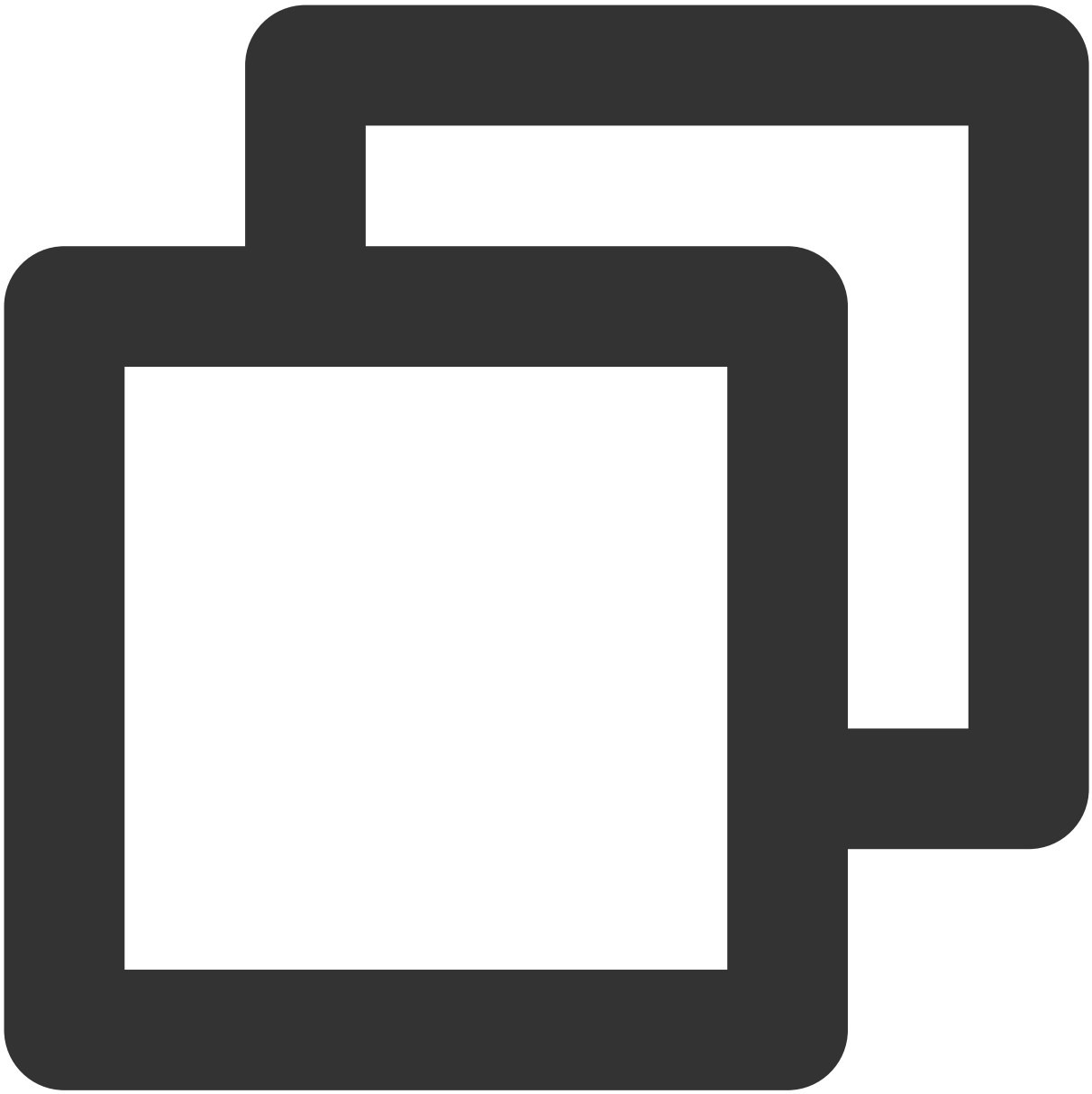
Modifying template

Feature description

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This API is used to modify a template.

Method prototype



```
public Boolean updateMediaTemplate(MediaTemplateRequest request);
```

Parameter description

Node Name (Keyword)	Description	Type	Required

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bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
templateId	ID of the template to be modified	String	Yes

Note:

Other parameters are the same as those of the template creation API as described in Creating Animated Image Template.

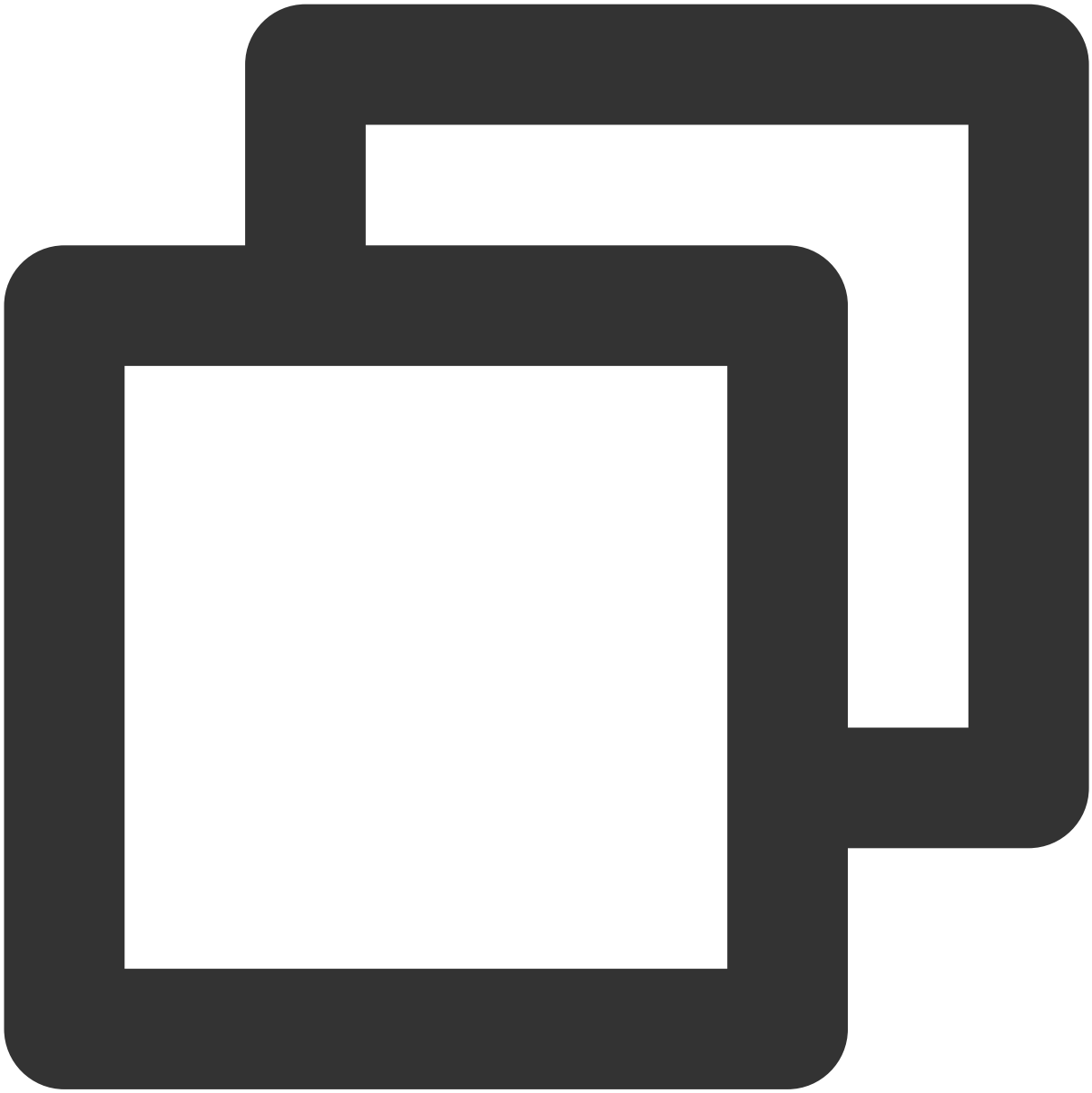
Response description

Success: `true` is returned upon modification success.

Failure: If an error (such as authentication failure) occurs, the `CosClientException` or `CosServiceException` exception will be reported. For more information, see Troubleshooting.

Sample request

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```
MediaTemplateRequest request = new MediaTemplateRequest();
request.setBucketName("examplebucket-1250000000");
request.setTemplateId("t19c4a60ae1a694621a01f0c7130*****");
request.setTag("Animation");
request.setName("updateName");
request.getContainer().setFormat("gif");
Boolean aBoolean = client.updateMediaTemplate(request);
```

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Workflow Operations

Last updated：2024-02-29 17:31:27

Overview

This document provides an overview of APIs and SDK code samples for media processing workflows in CI, with the animated image job as an example.

API	Operation	Description
DeleteWorkflow	Deleting workflow	Deletes workflow
DescribeWorkflow	Querying workflow	Queries workflow
DescribeWorkflowExecution	Querying workflow instance details	Queries workflow instance details
DescribeWorkflowExecutions	Querying workflow details list	Gets workflow instance list
TriggerWorkflowList	Triggering workflow	Executes workflow

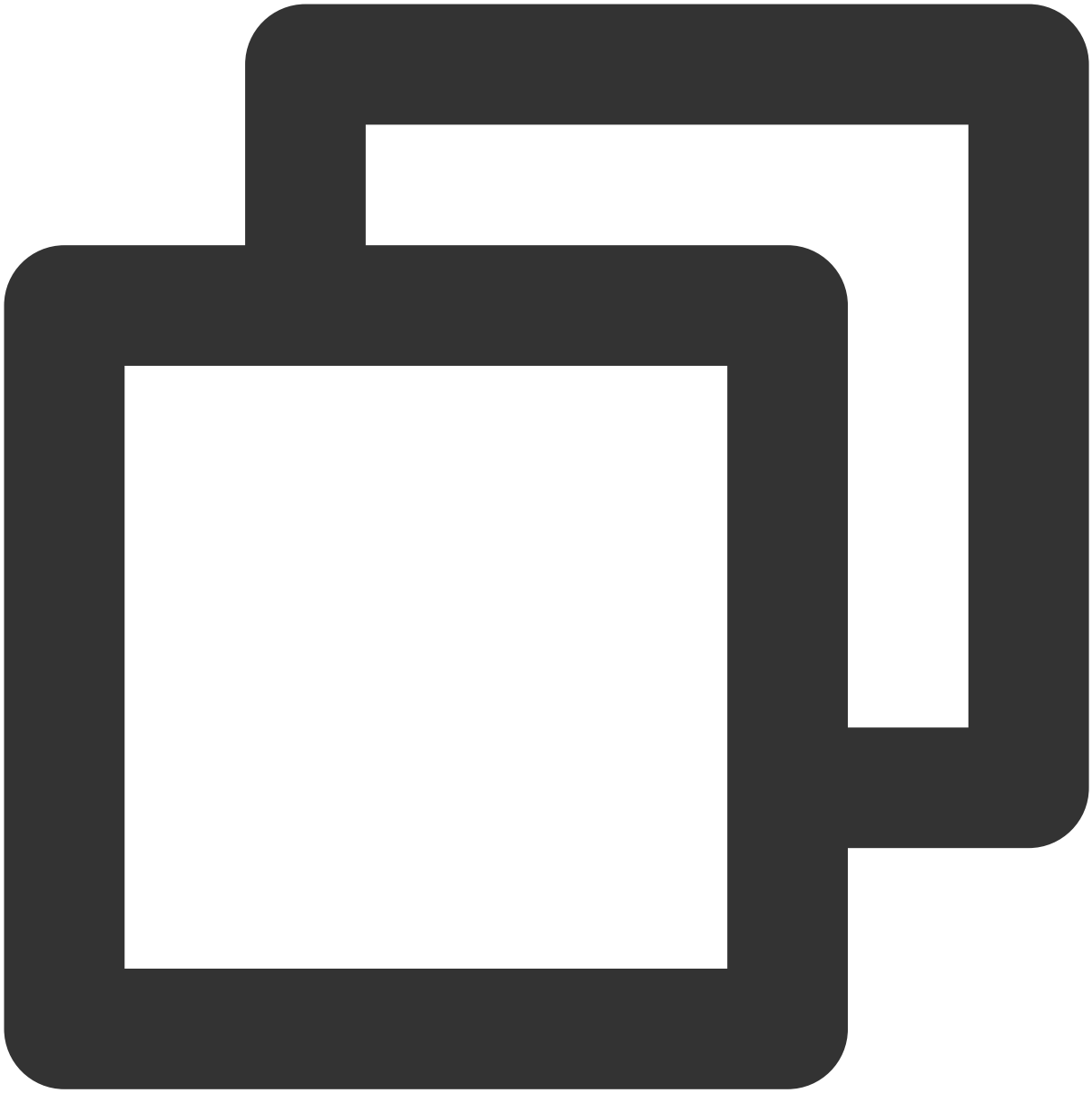
Deleting Workflow

Feature description

This API is used to delete a workflow.

Method prototype

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```
public Boolean deleteWorkflow(MediaWorkflowListRequest request);
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes

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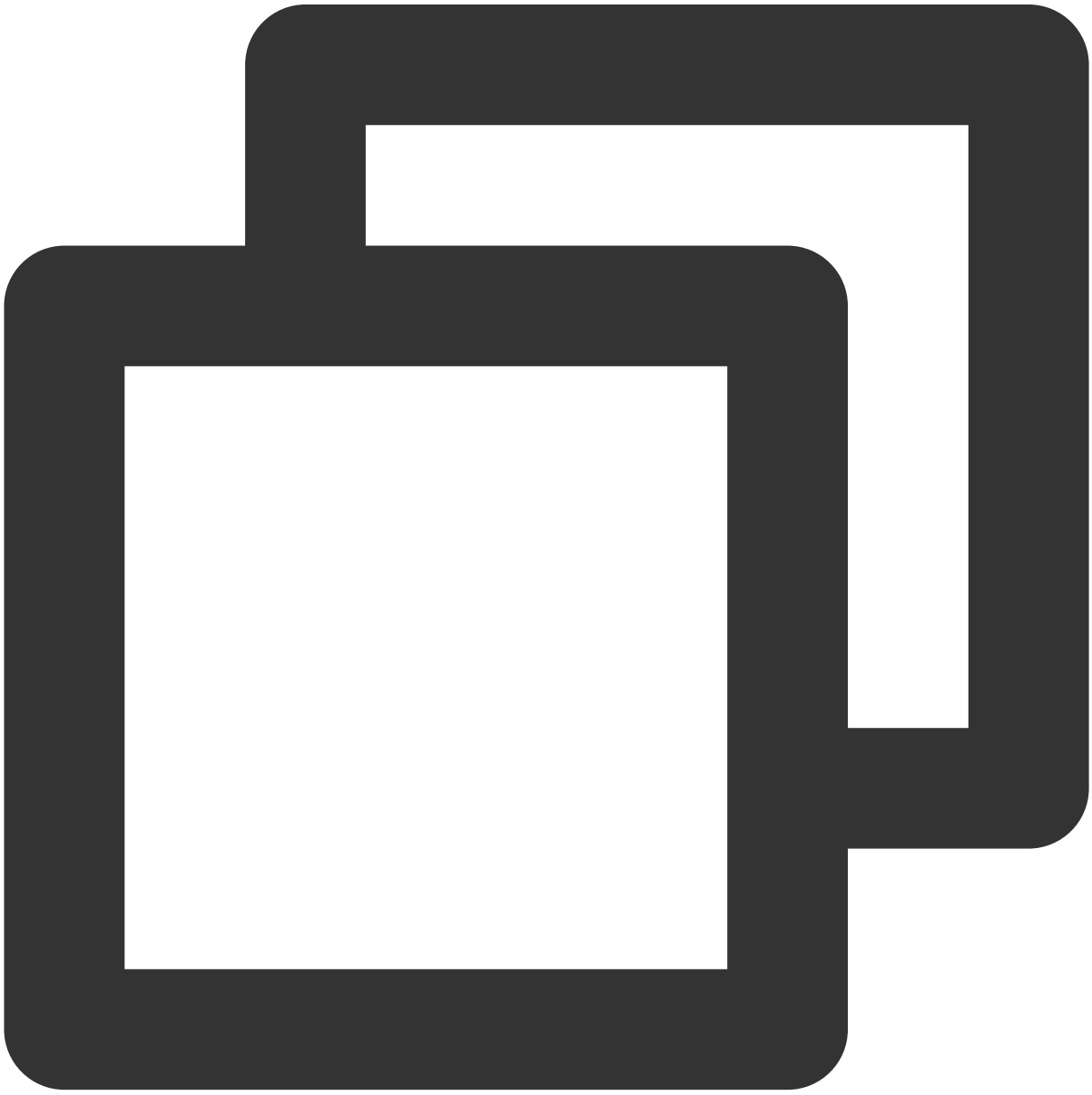
workflowId	Workflow ID	String	Yes

Response description

Success: `true` is returned upon success.

Failure: An error (such as the bucket does not exist) occurs, throwing the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

Sample request



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```
//1. Create a workflow request object
MediaWorkflowListRequest request = new MediaWorkflowListRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setWorkflowId("aaaa");
Boolean response = client.deleteWorkflow(request);
```

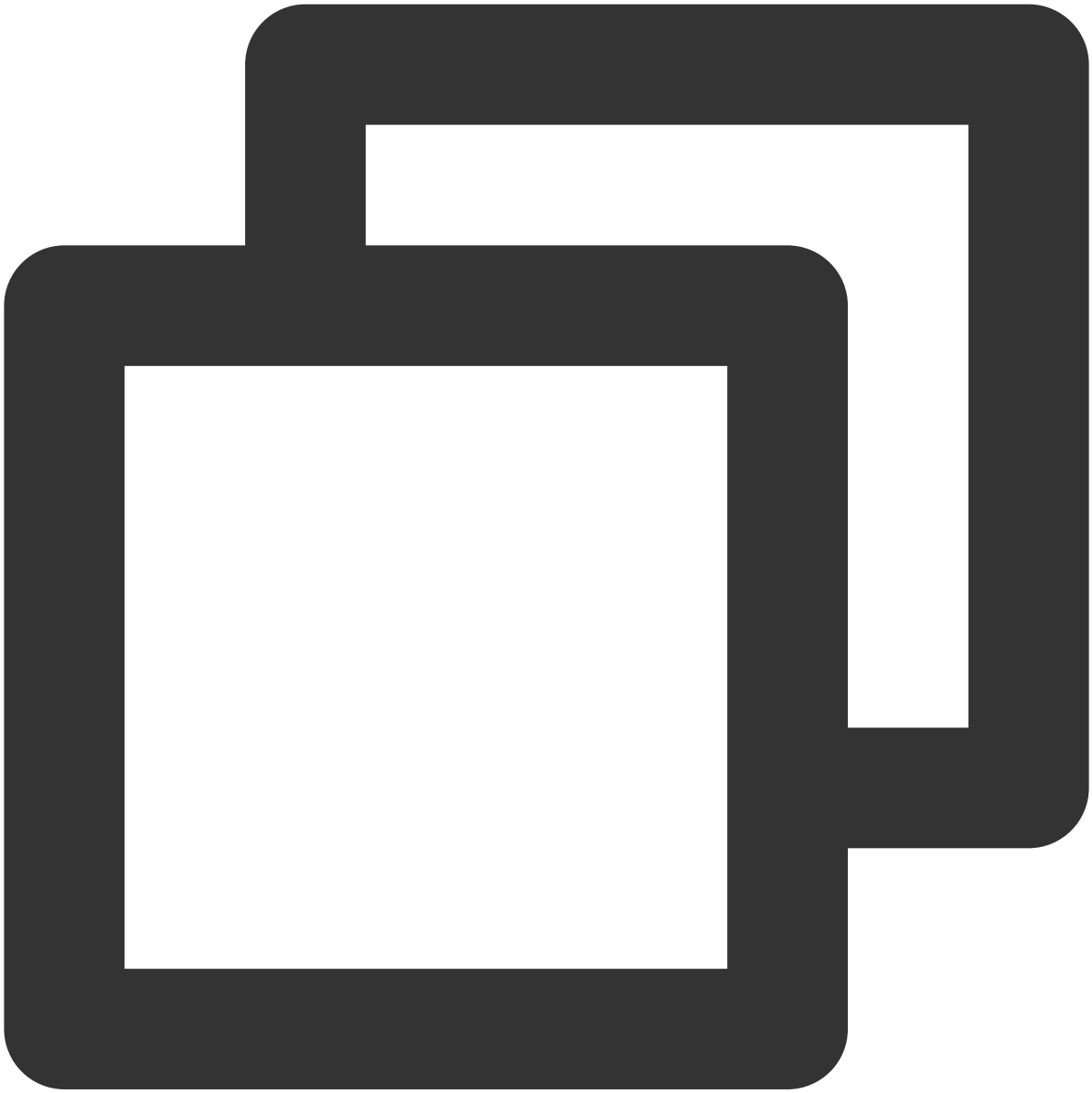
Querying Workflow

Feature description

This API is used to search for a workflow.

Method prototype

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```
public MediaWorkflowListResponse describeWorkflow(MediaWorkflowListRequest request)
```

Parameter description

Parameter	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID` . For more information, see Bucket Overview.	String	Yes
ids	Workflow ID. If you enter multiple IDs, separate them with commas (,).	String	No

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name	Workflow name.	String	No
pageNumber	Page number.	String	No
pageSize	Number of entries per page.	String	No

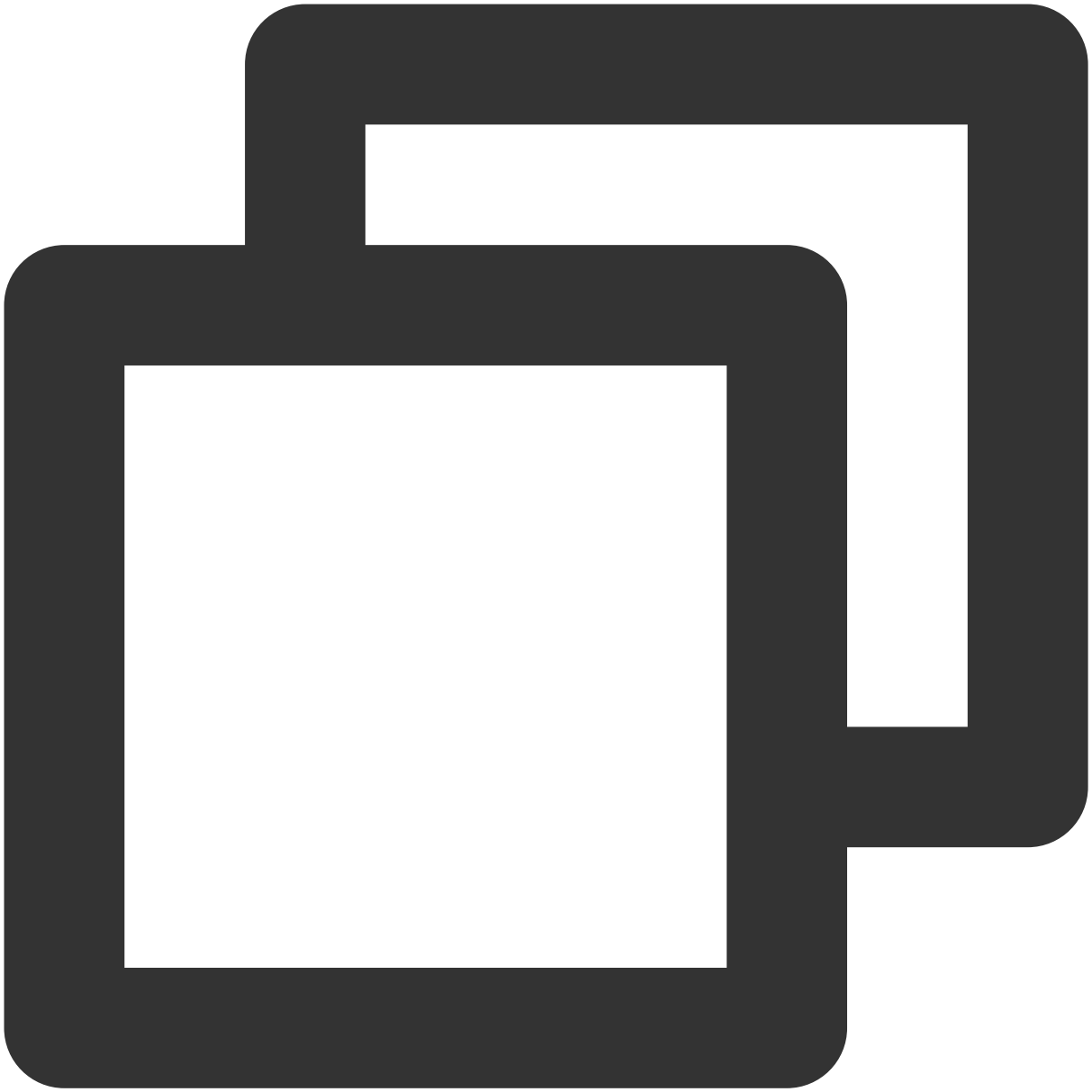
Response description

Success: A workflow set response object is returned, which contains the workflow object set.

Failure: An error (such as authentication failure) occurs, throwing the "CosClientException" or "CosServiceException" exception. For more information, see Troubleshooting.

Sample request

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```
//1. Create a workflow request object
MediaWorkflowListRequest request = new MediaWorkflowListRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
MediaWorkflowListResponse response = client.describeWorkflow(request);
List<MediaWorkflowObject> mediaWorkflowList = response.getMediaWorkflowList();
```

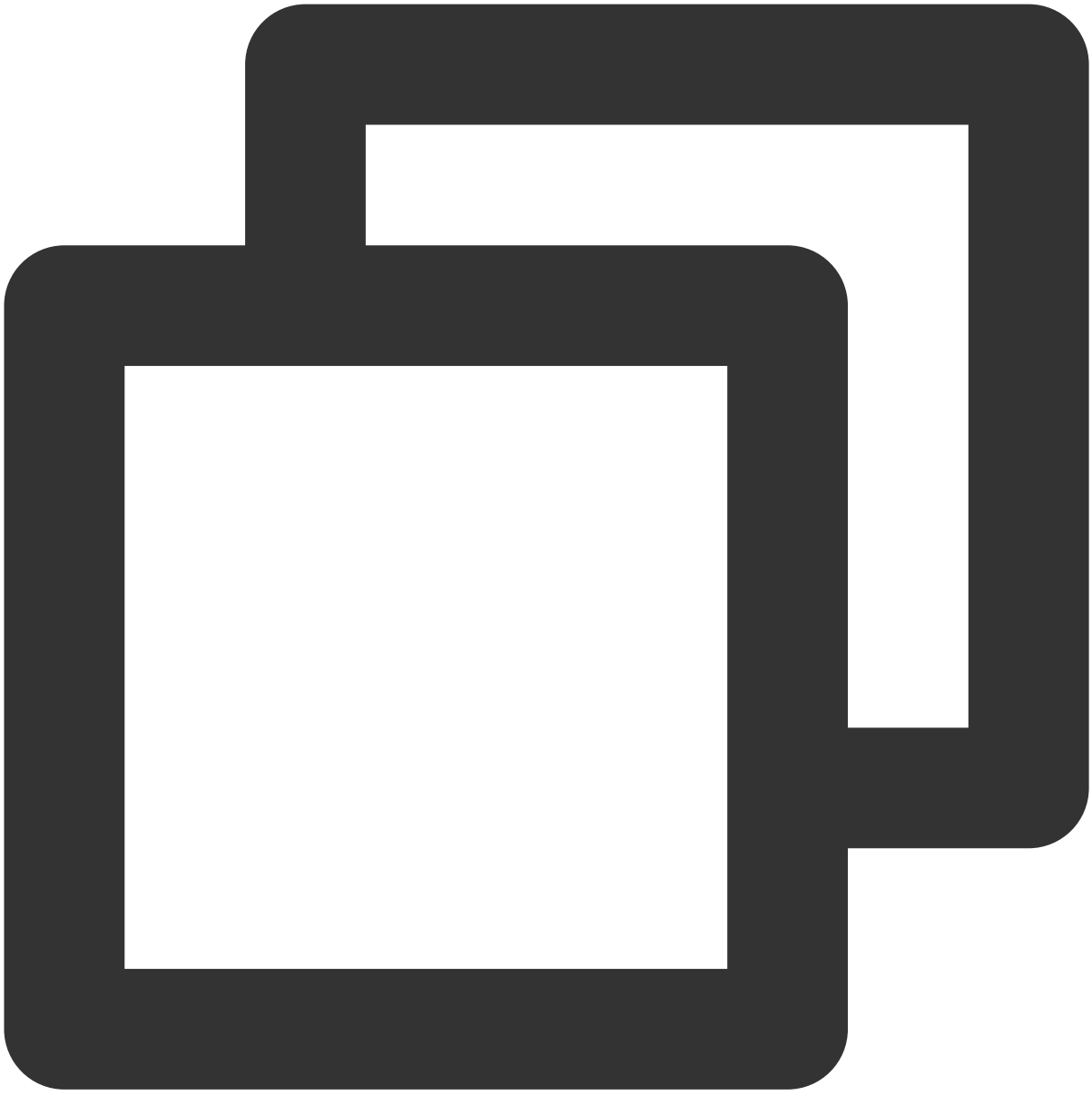
Querying Workflow Instance Details

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Feature description

This API is used to query the details of a workflow instance.

Method prototype



```
public MediaWorkflowExecutionResponse describeWorkflowExecution(MediaWorkflowListRe
```

Parameter description

Parameter	Description	Type	Required

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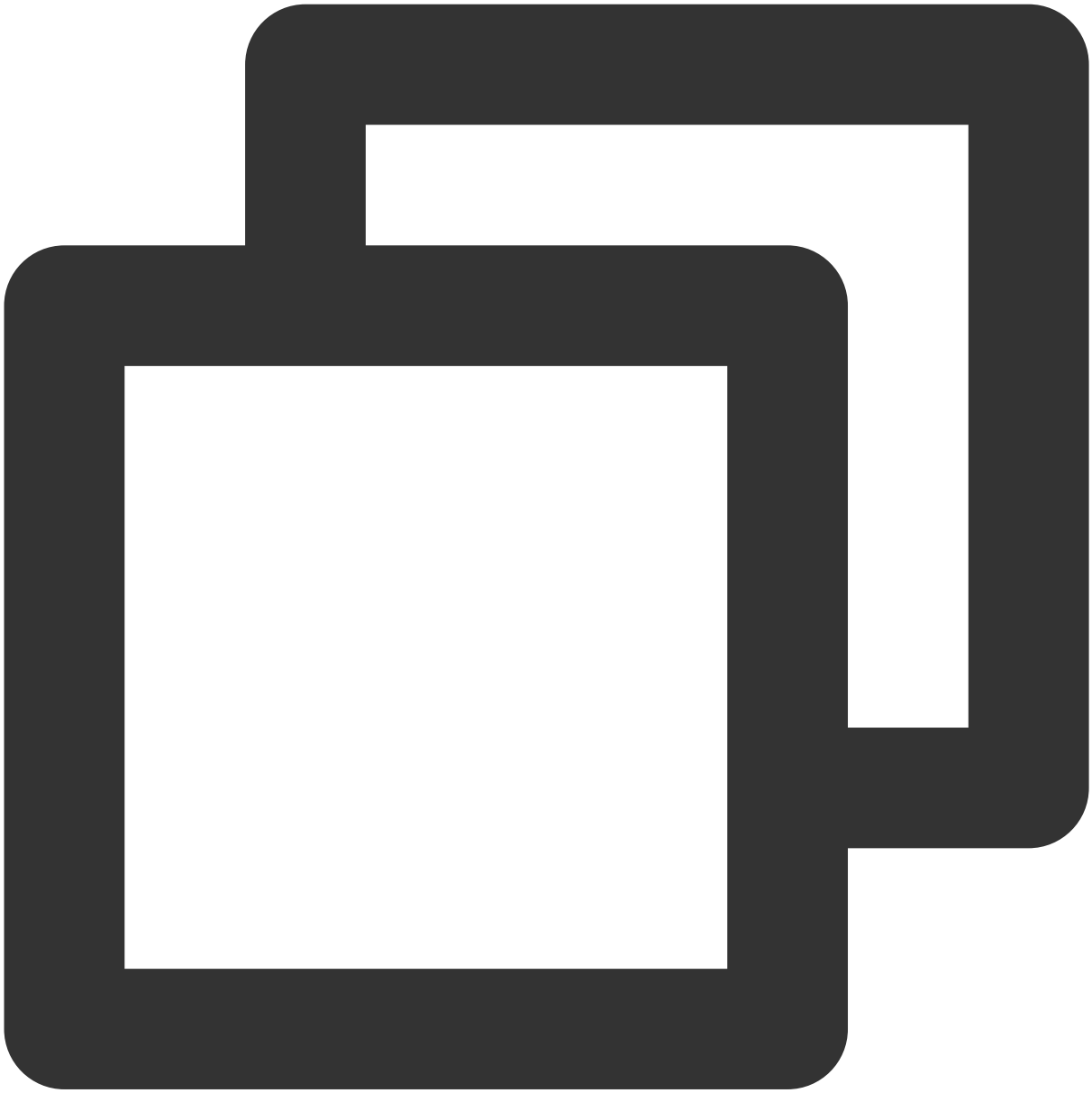
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
runId	Workflow instance ID	String	Yes

Response description

Success: A workflow instance response wrapper class is returned, which contains the workflow instance details object.
Failure: An error (such as authentication failure) occurs, throwing the "CosClientException" or "CosServiceException" exception. For more information, see Troubleshooting.

Sample request

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```
//1. Create a workflow request object
MediaWorkflowListRequest request = new MediaWorkflowListRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setRunId("i34bfd8d7eae711ea89fe525400c******");
MediaWorkflowExecutionResponse response = client.describeWorkflowExecution(request)
```

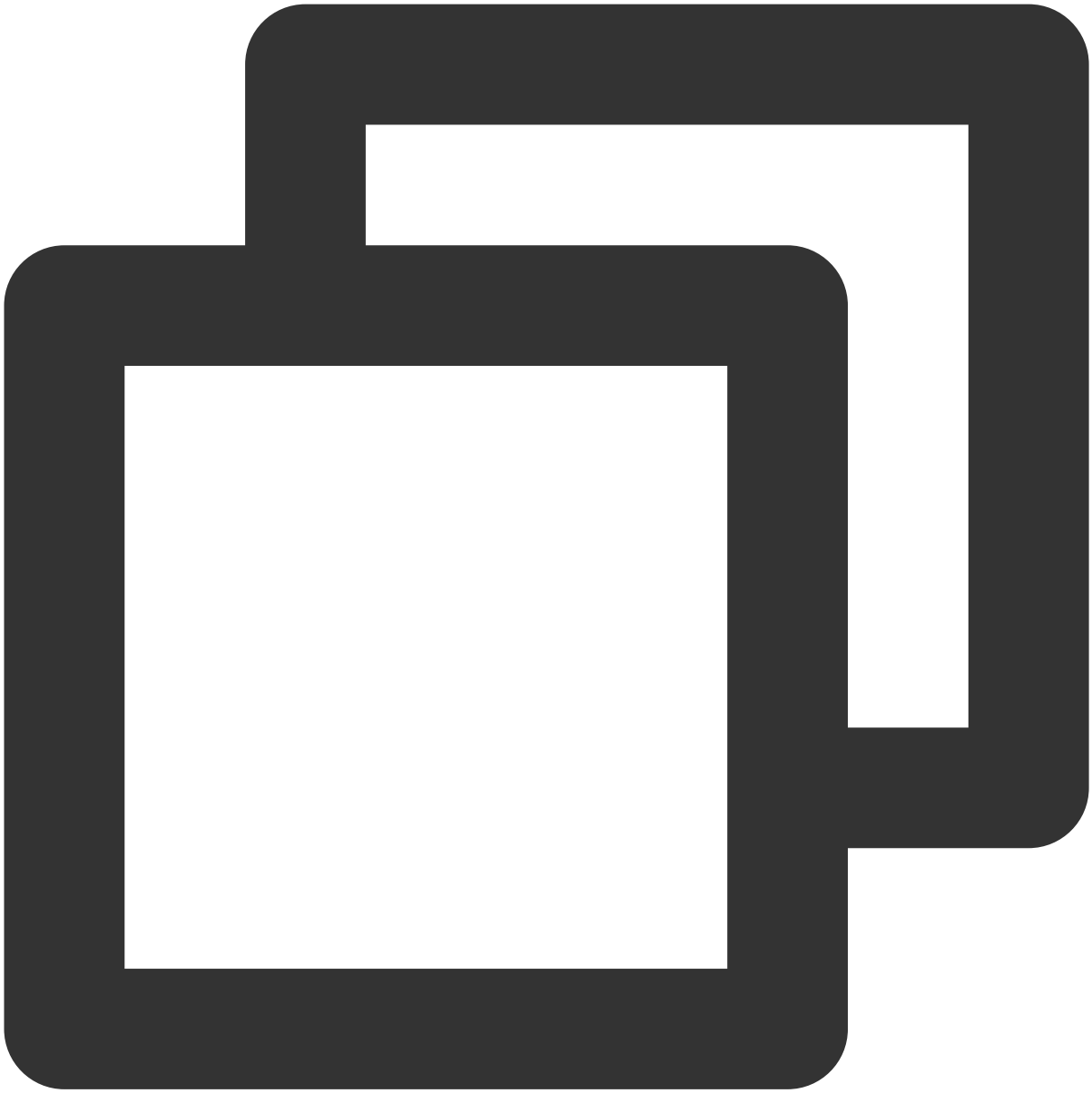
Querying Workflow Details List

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Feature description

This API is used to query the list of workflow details.

Method prototype



```
public MediaWorkflowExecutionsResponse describeWorkflowExecutions(MediaWorkflowList
```

Parameter description

Node Name	Description	Type	Required

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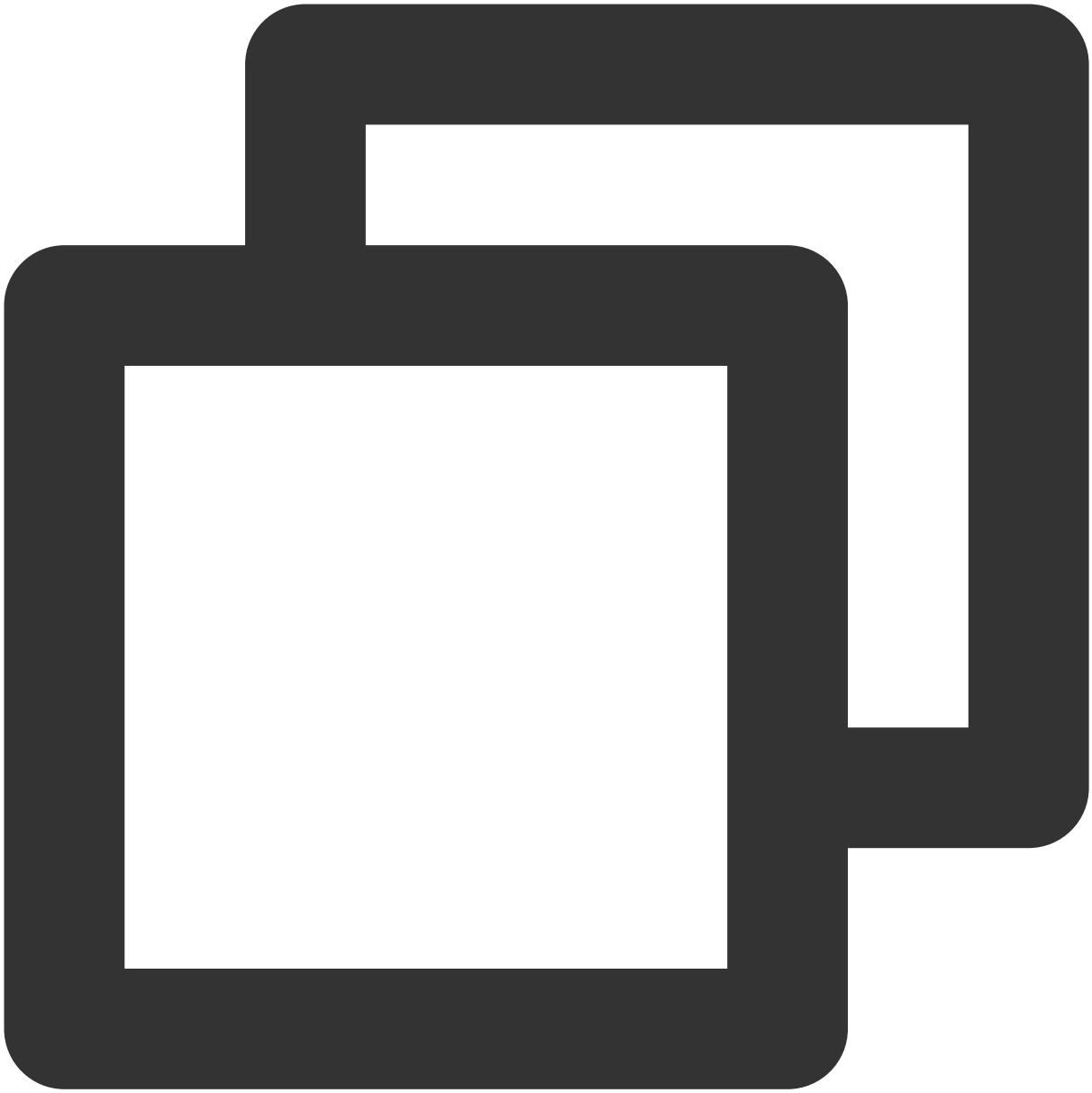
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
workflowId	Workflow ID	String	Yes
name	Filename	String	No
orderByTime	`Desc` (default) or `Asc`	String	No
size	Maximum number of jobs that can be pulled. The default value is 10. The maximum value is 100.	String	No
states	Workflow instance status. If you enter multiple statuses, separate them with commas (,). 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

Response description

Success: A workflow instance set response object is returned, which contains the workflow object instance set.
Failure: An error (such as authentication failure) occurs, throwing the "CosClientException" or "CosServiceException" exception. For more information, see Troubleshooting.

Sample request

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```
//1. Create a workflow request object
MediaWorkflowListRequest request = new MediaWorkflowListRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setWorkflowId("w4e6963a18e2446ed8bc8f09410e******");
MediaWorkflowExecutionsResponse response = client.describeWorkflowExecutions(reques
List<MediaWorkflowExecutionObject> workflowExecutionList = response.getWorkflowExec
```

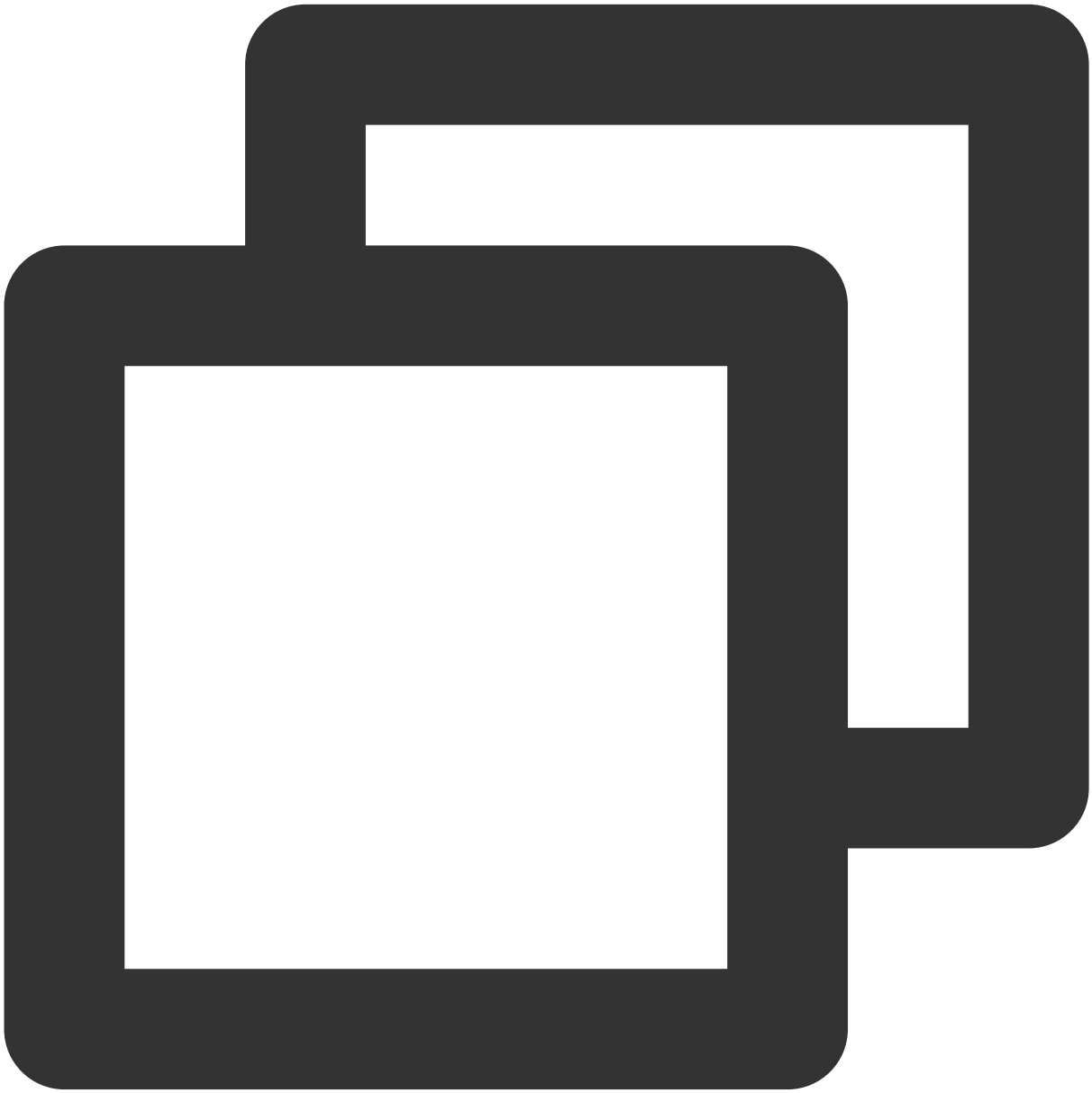
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Manually Triggering Workflow

Feature description

This API is used to manually trigger a workflow.

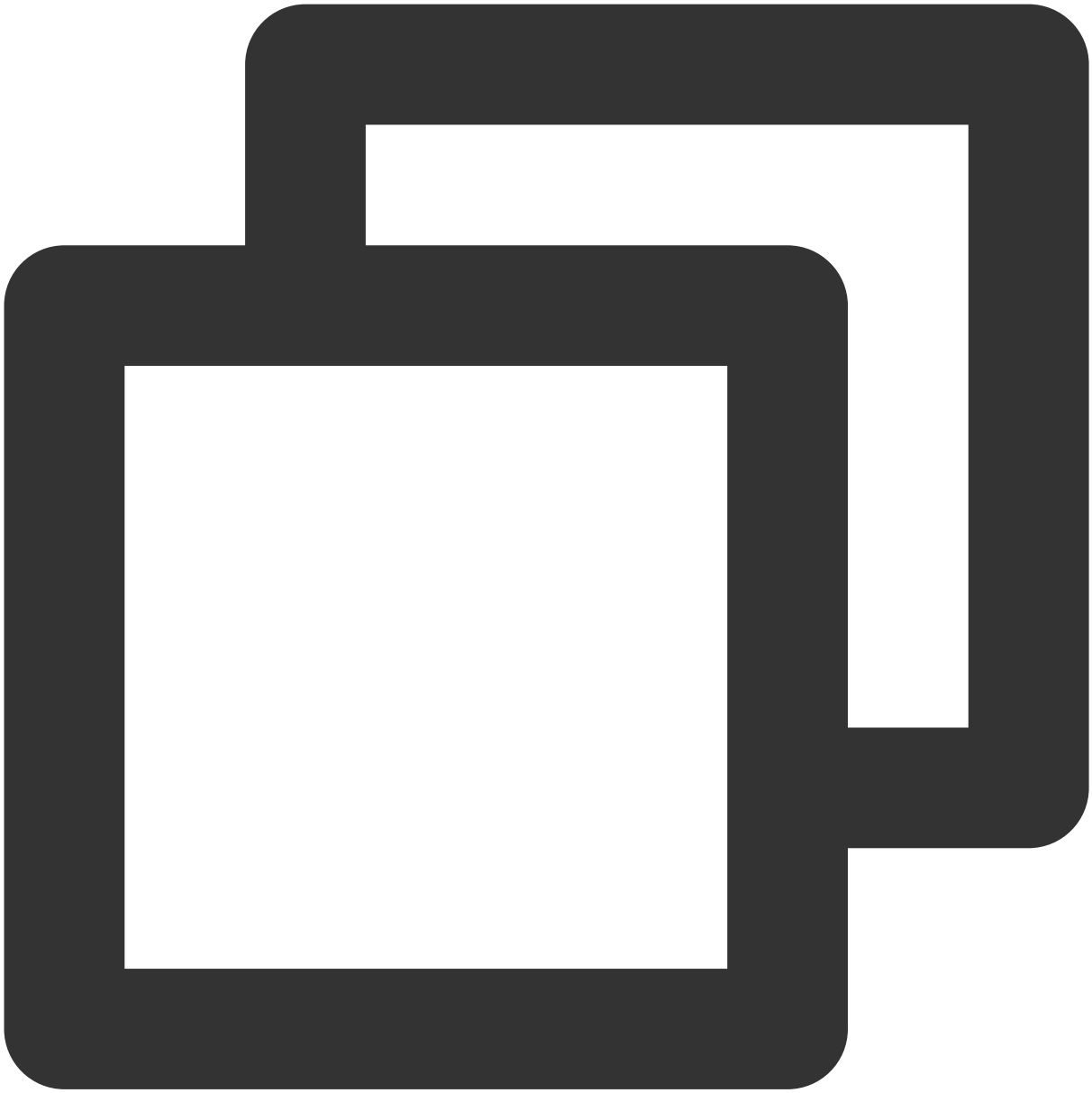
Method prototype



```
public MediaWorkflowListResponse triggerWorkflowList(MediaWorkflowListRequest reque
```

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Sample request



```
//1. Create a workflow request object
MediaWorkflowListRequest request = new MediaWorkflowListRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("DemoBucket-123456789");
request.setWorkflowId("we32f75950afe4a4682463d8158d*****");
request.setObject("1.mp4");
MediaWorkflowListResponse response = client.triggerWorkflowList(request);
```

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Parameter description

Node Name	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
object	Name of the object that requires workflow processing	String	Yes
workflowId	ID of the workflow to trigger	String	Yes
name	Name of the existing triggered job, which can contain up to 128 letters, digits, hyphens, and underscores and is empty by default.	String	No

Response description

Success: The `MediaWorkflowListResponse` instance is returned.

Failure: An error (such as authentication failure) occurs, throwing the "CosClientException" or "CosServiceException" exception. For more information, see Troubleshooting.

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Video Frame Capturing

Last updated：2024-02-29 17:31:27

Overview

This document provides an overview of APIs and SDK code samples related to media file screen capturing in CI.

API	Operation	Description
GenerateSnapshot	Getting a screenshot of a media file at some time point	Gets a screenshot of a media file at some time point

Basic operations

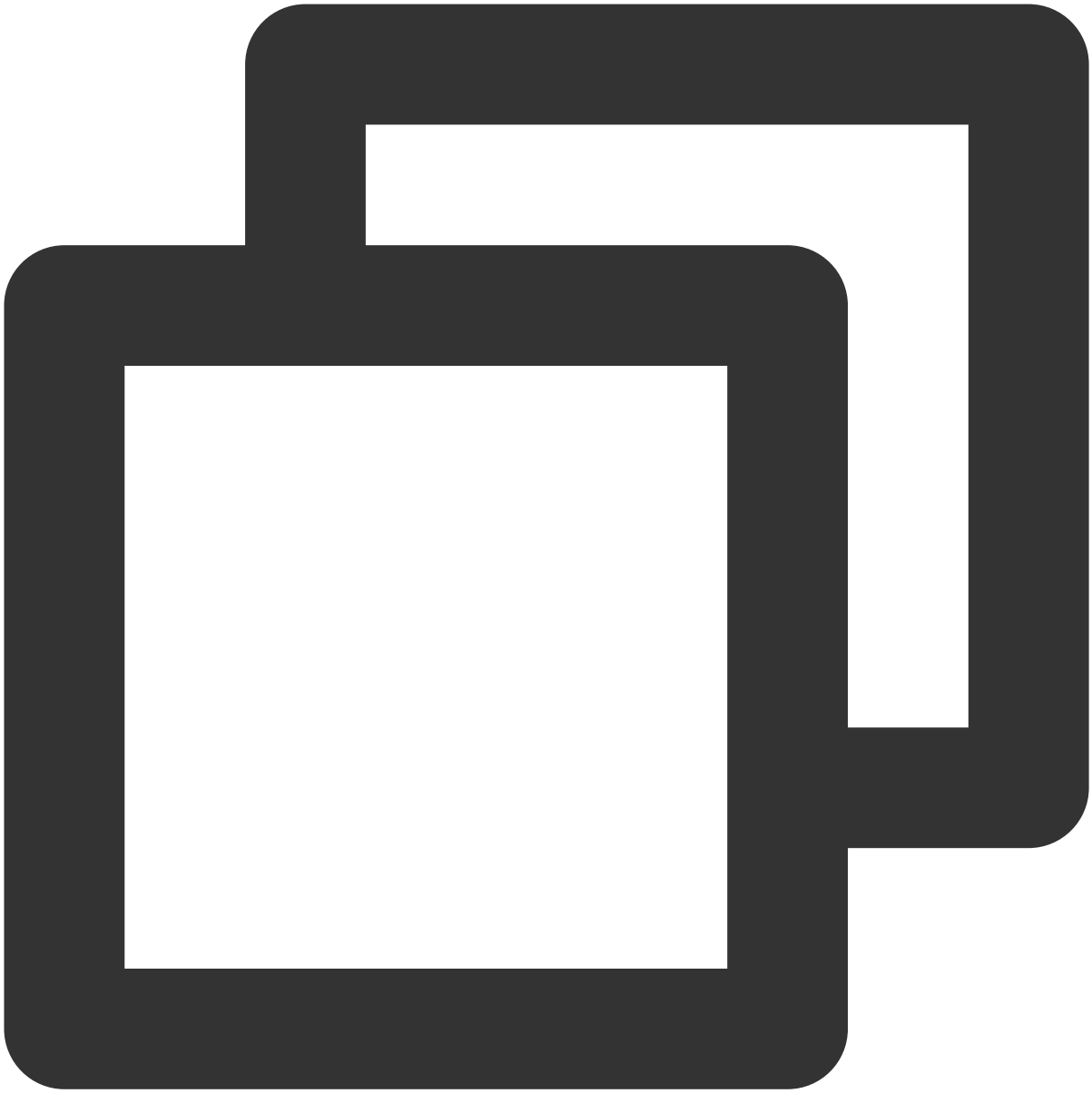
Getting a screenshot of a media file at some time point

Feature description

This API is used to get a screenshot of a media file at some time point.

Method prototype

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```
public SnapshotResponse generateSnapshot(SnapshotRequest request);
```

Parameter description

Parameter	Description	Type	Required
bucketName	Bucket name in the format of BucketName-APPID. For more information, see Bucket Overview.	String	Yes
Input	Media file location information.	Container	Yes

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Time	Screenshot time point in seconds.	Float	Yes
Output	Screenshot storage location information.	Container	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
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
Rotate	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:

Parameter	Parent Node	Description	Type	Required
Object	Request.Input	Filename	String	Yes

`Output` has the following sub-nodes:

Parameter	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

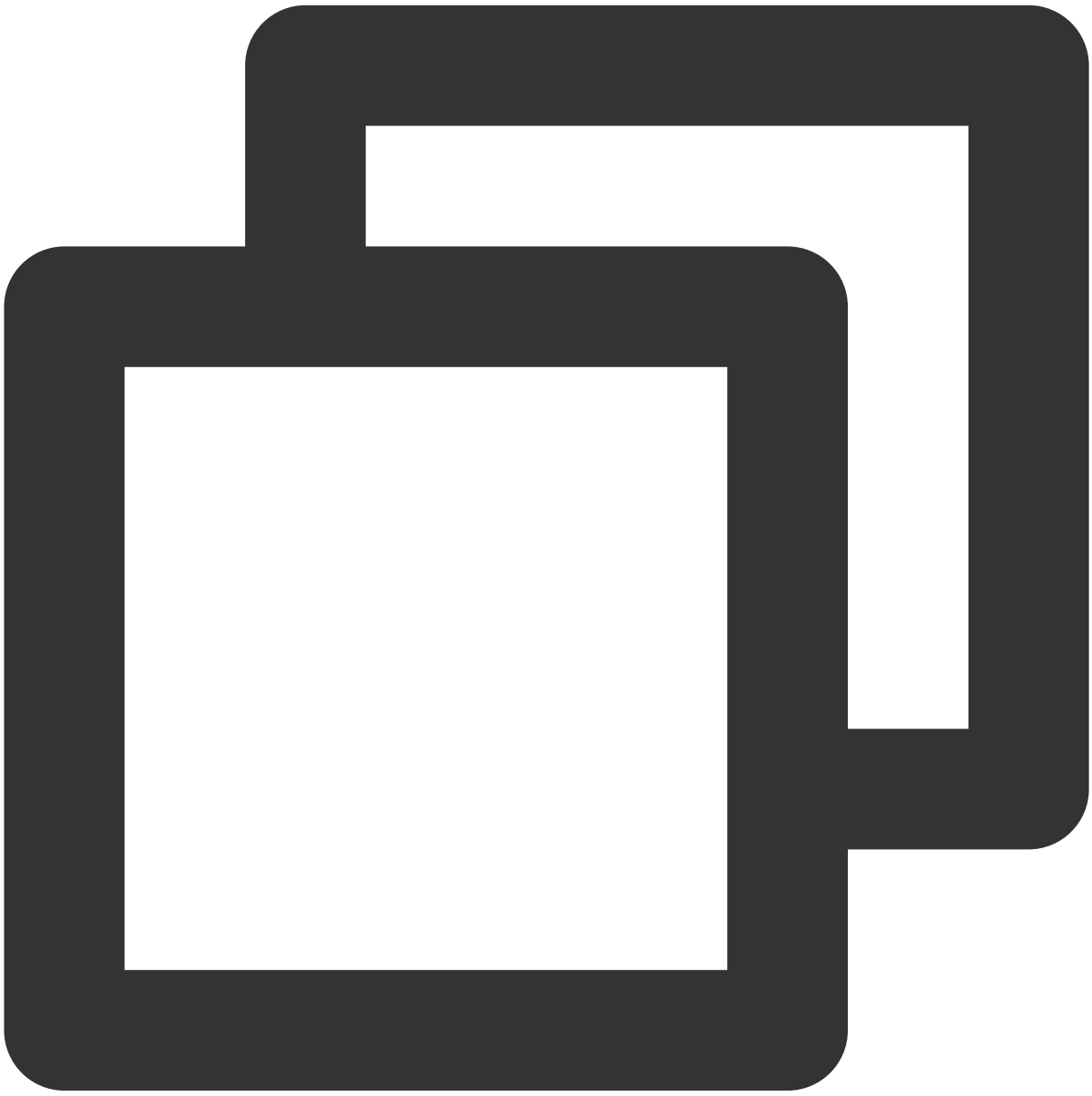
Response description

Success: The screenshot entity information is returned.

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Failure: An error (such as the bucket does not exist) occurs, throwing the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

Sample request



```
//1. Create a screenshot request object
SnapshotRequest request = new SnapshotRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.getInput().setObject("1.mp4");
request.getOutput().setBucket("examplebucket-1250000000");
```

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```
request.getOutput().setRegion("ap-chongqing");
request.getOutput().setObject("test/1.jpg");
request.setTime("15");
//3. Call the API to get the screenshot response object
SnapshotResponse response = client.generateSnapshot(request);
```

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File Preview
Generating Sync Preview URL

Last updated：2024-02-29 17:31:27

Overview

This document provides an overview of APIs and SDK code samples for file processing in CI.

API	Description
Generating a sync file-to-image preview URL	Generates a sync file-to-image preview URL.
Generating a sync file-to-HTML preview URL	Generates a sync file-to-HTML preview URL.

Basic operations

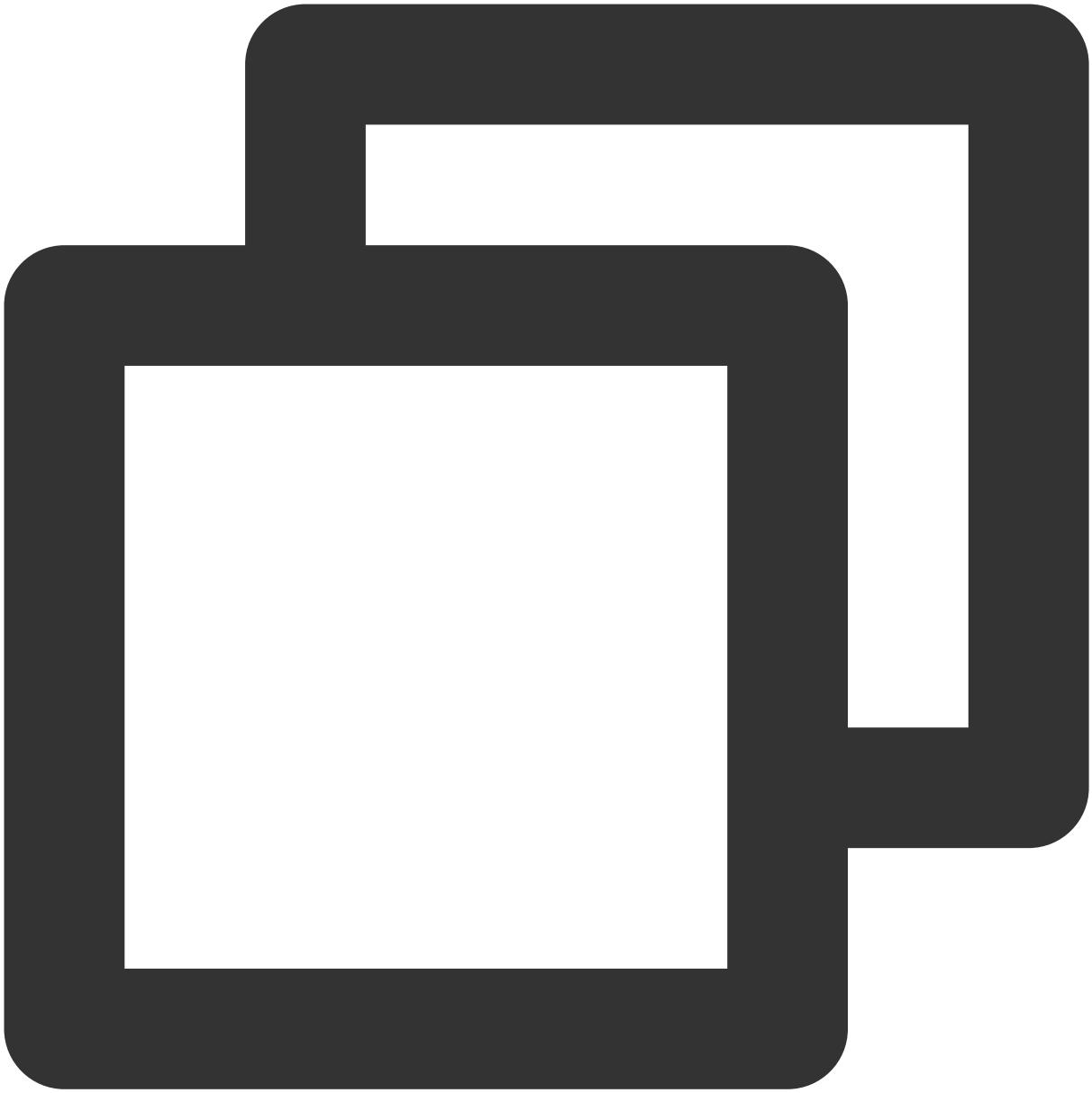
Sync file-to-image/HTML preview

Feature description

This API is used to generate a sync file-to-image/HTML preview URL by using different parameters.

Method prototype

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```
String GenerateDocPreviewUrl(DocHtmlRequest docJobRequest);
```

Parameter description

`DocHtmlRequest` has the following sub-nodes:

Node Name (Keyword)	Description	Type	Required
bucketName	Bucket name in the format of BucketName-APPID. For more information, see Bucket Overview.	String	Yes

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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	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 (converts to .png image) jpg (converts to .jpg image) pdf (converts to .pdf file, where the page number cannot be selected, and the page parameter does not take effect.) html (converts to HTML online file) If the input file format cannot be recognized, the jpg format will be used by default. The default value for the SDK is html.	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. Default value:0. 0: Hide comments and apply track changes. 1: Show comments and track changes.	Int	No
ImageParams	Processing parameters for the output image. All parameters of basic image processing are supported. To specify multiple parameters, separate them with pipeline operators. 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	Int	No

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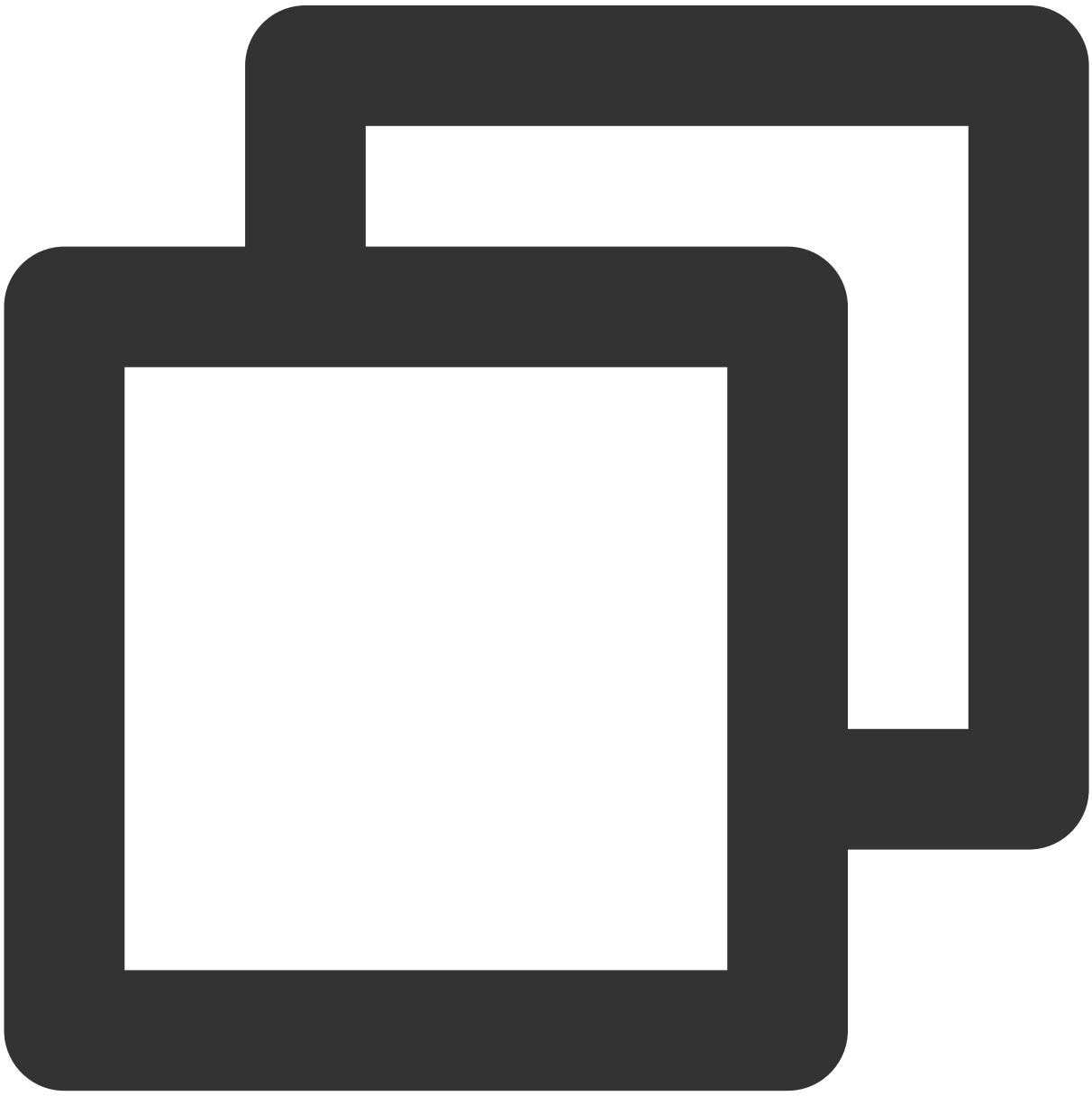
	works together with scale. Value range: 96–600. Default value: 96. The width of the output image must be less than 65500 px.		

Response description

Success: The preview URL is returned.

Failure: An error (such as the bucket does not exist) occurs, throwing the "CosClientException" or "CosServiceException" exception. For more information, please see Troubleshooting.

Sample request



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```
//1. Create a request object
DocHtmlRequest request = new DocHtmlRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("markjrzhang-1251704708");
// For conversion to image, `dstType` is `DocHtmlRequest.DocType.jpg`.
request.setDstType(DocHtmlRequest.DocType.html);
request.setObjectKey("1.pptx");
request.setPage("1");
//3. Call the API to get the job response object
String previewUrl = client.GenerateDocPreviewUrl(request);
System.out.println(previewUrl);
```

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Content Moderation
Image Moderation

Last updated：2024-02-29 17:31:27

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for image moderation.

API	Description
Moderating single image	Scans existing data stored in COS for pornographic, illegal, and advertising images.
Batch moderating images	Moderates multiple images in batches.

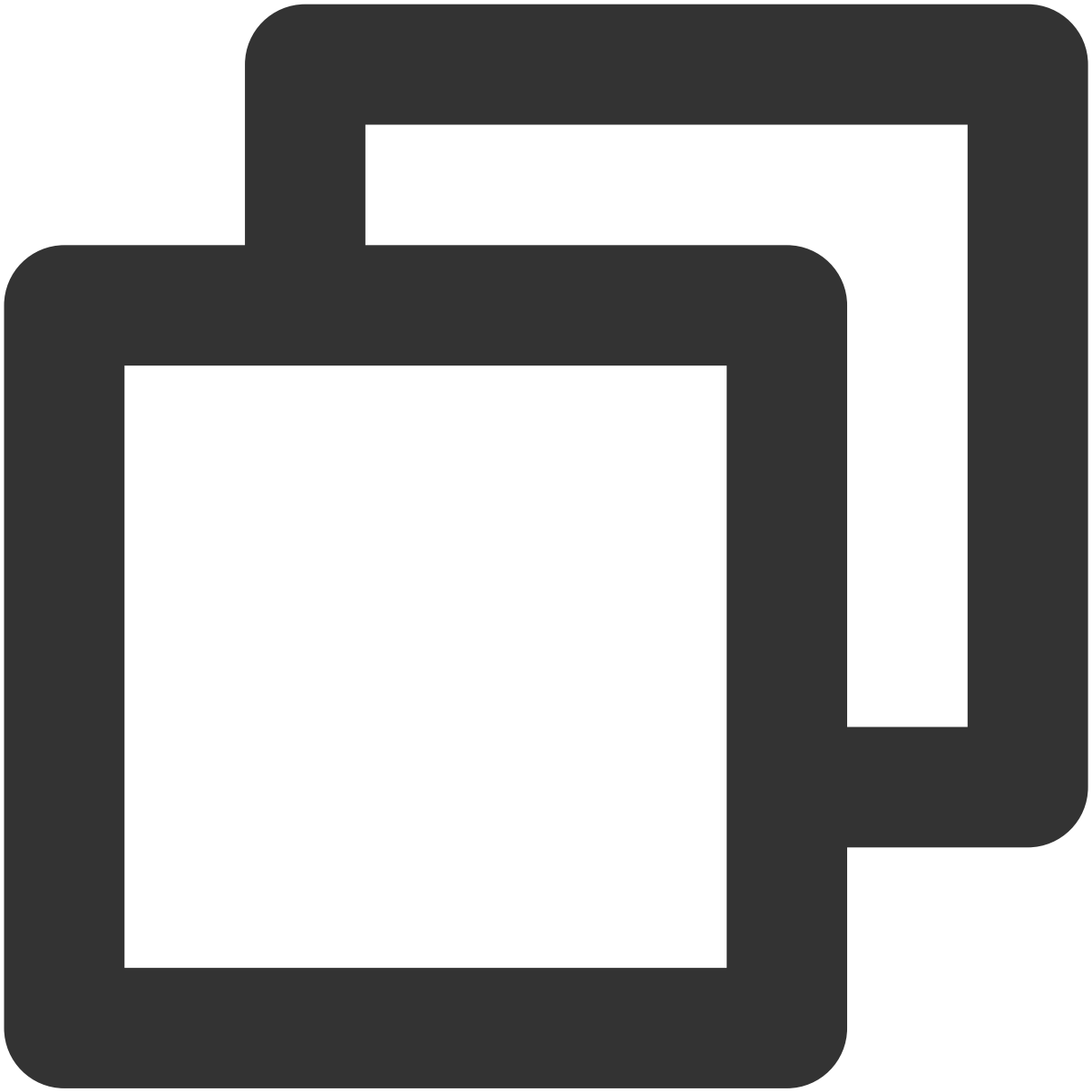
Single Image Moderation

Feature description

The existing data scan feature of image moderation leverages CI's persistent processing API to scan existing data stored in COS for pornographic, illegal, and advertising images.

Method prototype

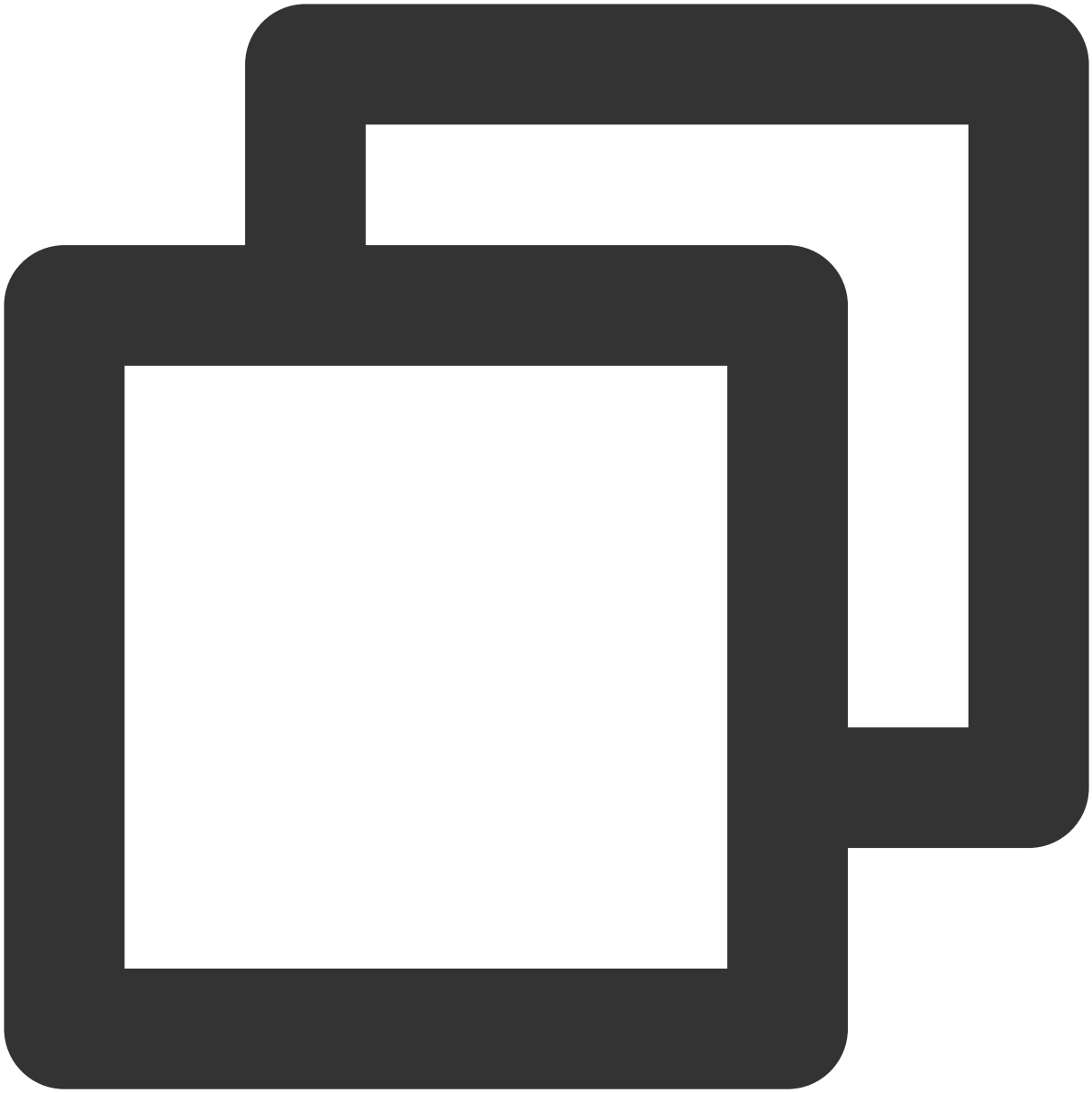
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```
ImageAuditingResponse imageAuditing(ImageAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
ImageAuditingRequest request = new ImageAuditingRequest();
//2. Add request parameters as detailed in the API documentation
//2.1 Set the request bucket
request.setBucketName("examplebucket-1250000000");
//2.2 Set the moderation type
request.setDetectType("porn,ads");
//2.3 Set the image location in the bucket
request.setObjectKey("1.png");
//3. Call the API to get the job response object
ImageAuditingResponse response = client.imageAuditing(request);
```

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Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	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
bizType	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 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
detectType	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 comma, such as `Porn,Ads`. If you need to moderate more scenes, use the `bizType` parameter.	String	No
detectUrl	You can enter a `detectUrl` value to moderate an image accessible over the public network. If `detectUrl` is not specified, the backend will moderate by `ObjectKey` by default. If `detectUrl` is specified, the backend will moderate by `detectUrl`, and there will be no need to enter `ObjectKey`. Sample `detectUrl`: `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
maxFrames	The maximum number of frames to be captured for GIF image moderation, which must be greater than 0. The default value is	Int	No

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	`5` , indicating to capture five frames at most.		
largeImageDetect	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 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.	Int	No
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	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

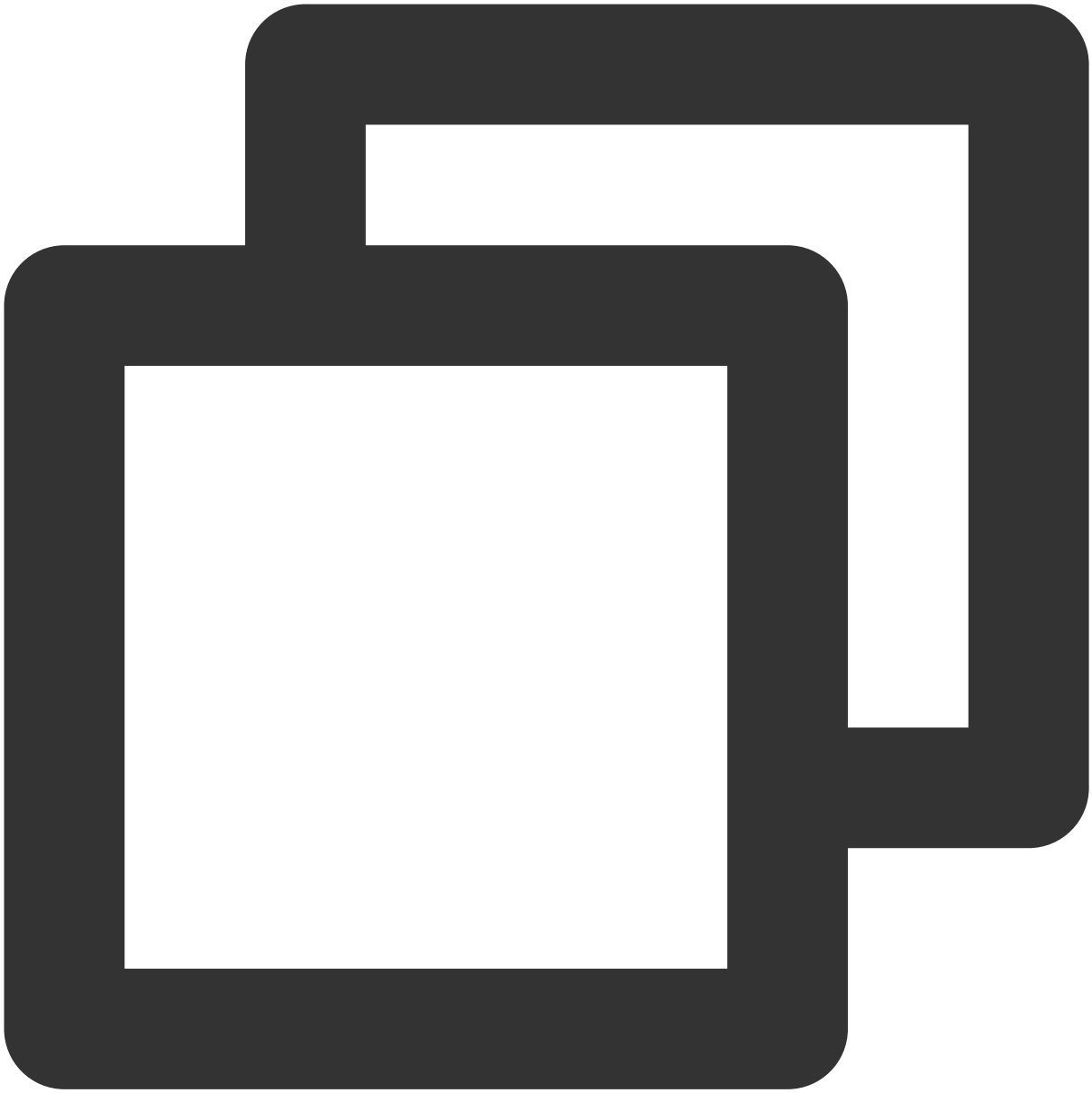
Response description

Success: An `ImageAuditingResponse` instance is returned upon success, which contains the moderation result.

Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

Content of the `ImageAuditingResponse` object after it is converted to JSON:

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```
{
    "requestId":"NjJkOTI3YTJfNGNhY2ZhMDlfOWJhOV9hZ*****",
    "jobId":"si461d9f9608de11ed9b3d525400b*****",
    "object":"1.png",
    "compressionResult":"0",
    "result":"0",
    "label":"Normal",
    "category":"",
    "subLabel":"",
    "score":"42",
    "text":"",
```


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```
    "state":"Success",
    "pornInfo":{
        "code":"0",
        "msg":"OK",
        "hitFlag":"0",
        "score":"0",
        "label":"",
        "ocrResults":{
            "text":"",
            "keywords":""
        },
        "category":""
    }
}
```

The response body is as described below:

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: `Success`.
Object	String	The name of the image 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), and `2` (suspiciously sensitive, with human review recommended).
Label	String	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.
Category	String	This field is a subset of `Label`, indicating the specific moderation

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		category hit; for example, `Sexy` presents the sexy category in the `Porn` tag.
SubLabel	String	Second-level tag 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 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. Returned 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 tag 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` presents the sexy category in the `Porn` tag.
SubLabel	String	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.

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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	String	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.

`OcrResults` has the following sub-nodes:

Parameter	Type	Description
Text	String	The specific text content recognized by OCR in the image.
Keywords	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.

Parameter	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

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		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.

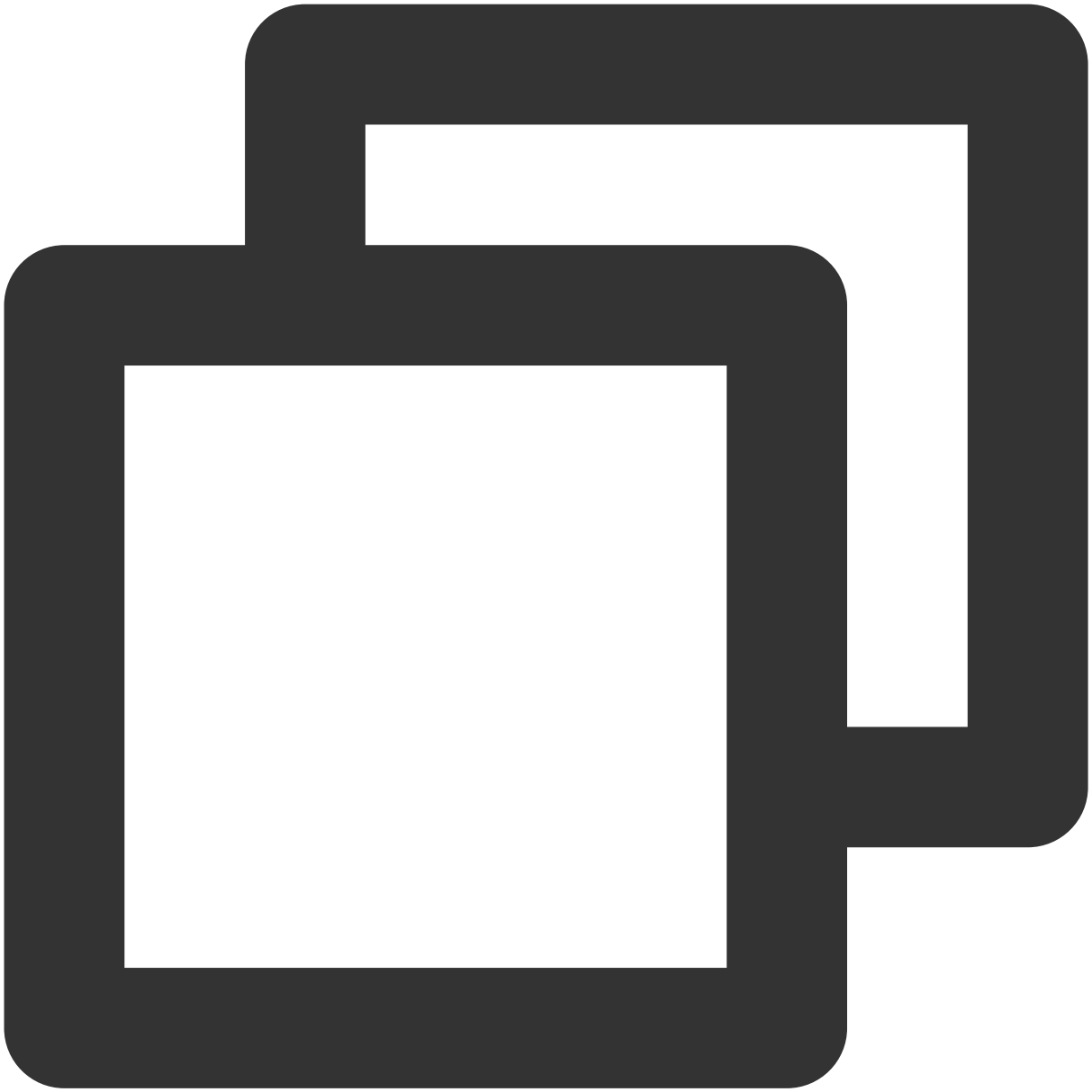
Batch Image Moderation

Feature description

The batch image moderation API adopts a sync POST request method. You can use this API to perform content moderation on multiple image files.

Method prototype

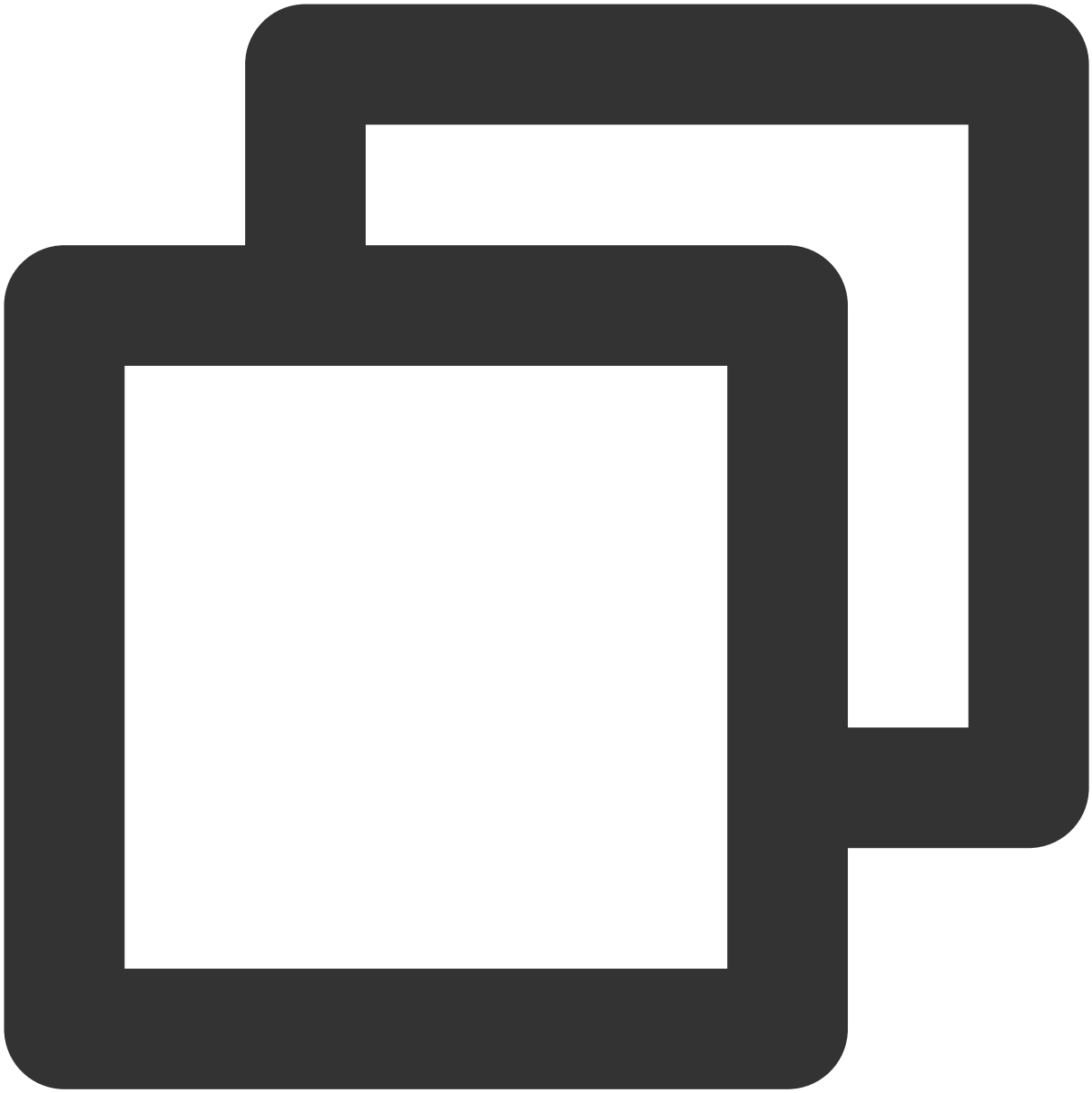
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```
BatchImageAuditingResponse batchImageAuditing(BatchImageAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
BatchImageAuditingRequest request = new BatchImageAuditingRequest();
//2. Add request parameters as detailed in the API documentation
//2.1 Set the request bucket
request.setBucketName("examplebucket-1250000000");
//2.2 Add the request content
List<BatchImageAuditingInputObject> inputList = request.getInputList();
BatchImageAuditingInputObject input = new BatchImageAuditingInputObject();
input.setObject("1.jpg");
input.setDataId("DataId");
inputList.add(input);
```

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```
input = new BatchImageAuditingInputObject();
input.setUrl("https://examplebucket-1250000000.cos.ap-chongqing.myqcloud.com/1.png"
input.setDataId("DataId");
inputList.add(input);

//2.2 Set the moderation type
request.getConf().setDetectType("all");
//3. Call the API to get the job response object
BatchImageAuditingResponse response = client.batchImageAuditing(request);
List<BatchImageJobDetail> jobList = response.getJobList();
```

Parameter description

`request` has the following sub-nodes:

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

`Input` has the following 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`. Either `Object` or `Url` can be selected at a time.	String	No
Url	Request.Input	Full URL of the image file, such as `http://a-1250000.cos.ap-shanghai.myqcloud.com/image.jpg`.	String	No

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		Either `Object` or `Url` can be selected at a time.		
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 content in the result, which can contain up to 512 bytes.	String	No
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

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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 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 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
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 comma, such as `Porn,Ads` . If you need to moderate more scenes, use the `BizType` parameter.	String	No
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 for async moderation. Addresses starting with `http://` or `https://` are supported, such as `http://www.callback.com` .	String	No

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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.

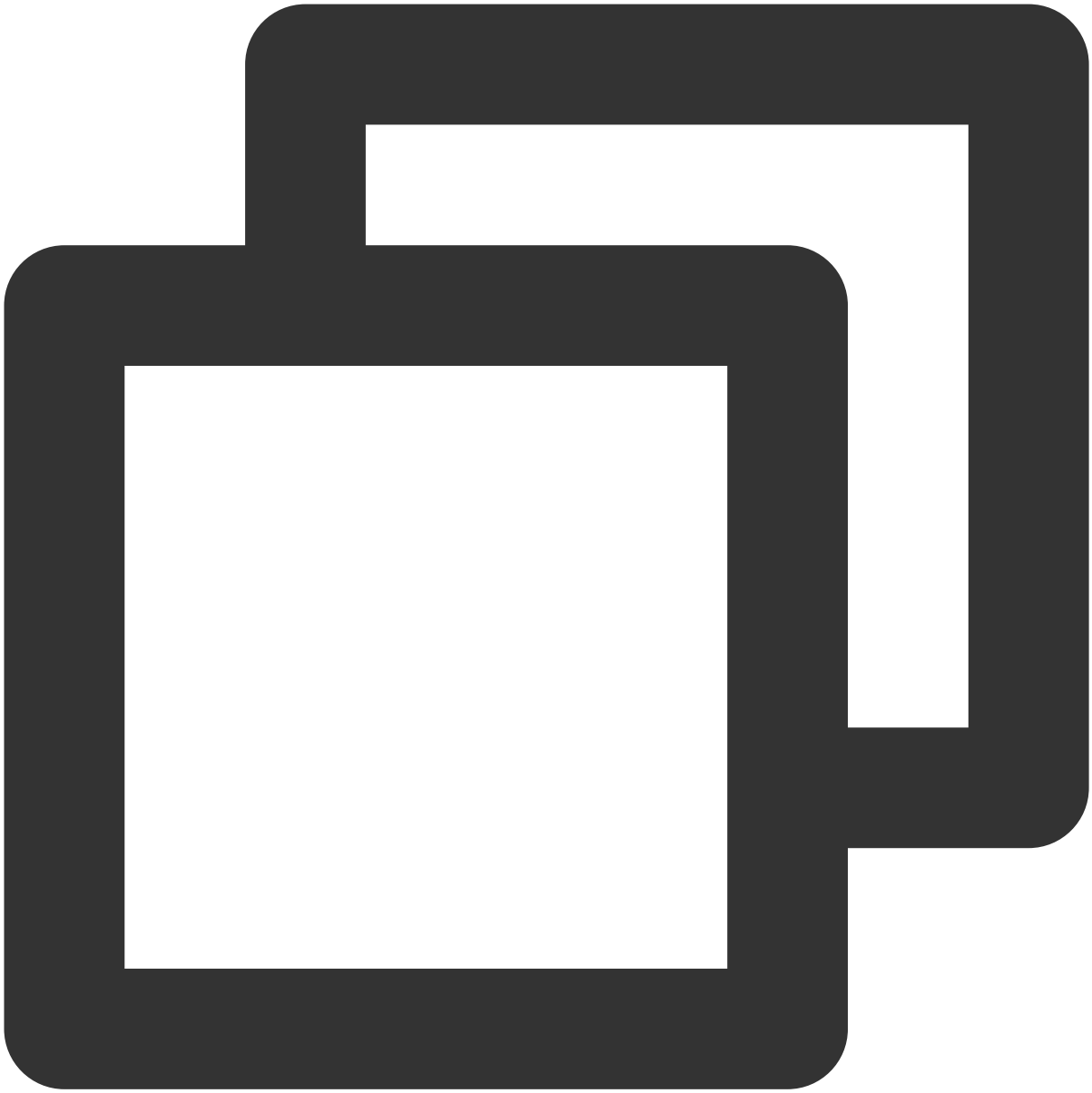
Response description

Success: A `BatchImageAuditingResponse` instance is returned upon success, which contains the moderation result.

Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

Content of the `ImageAuditingResponse` object after it is converted to JSON:

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```
{
  "requestId":"NjJkOTJjMjVfMTIwNjUzMDlfNDg5OF8*****",
  "jobList":[
    {
      "dataId":"DataId",
      "jobId":"sif6423b8008e011ed9b3d525400*****",
      "category":"",
      "label":"Normal",
      "result":"0",
      "object":"1.jpg",
      "score":"0",
```


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```
        "subLabel":"",
        "text":"",
        "code":"",
        "message":"",
        "url":"",
        "compressionResult":"0",
        "pornInfo":{
          "code":"0",
          "msg":"OK",
          "hitFlag":"0",
          "score":"45",
          "label":"",
          "keywords":"",
          "count":"",
          "subLabel":"",
          "ocrResults":{
            "text":"",
            "keywords":""
          },
          "category":""
        },
        "adsInfo":{
          "code":"0",
          "msg":"OK",
          "hitFlag":"0",
          "score":"0",
          "label":"",
          "keywords":"",
          "count":"",
          "subLabel":"",
          "ocrResults":{
            "text":"",
            "keywords":""
          },
          "category":""
        },
        "userInfo":{
          "tokenId":"",
          "nickname":"",
          "deviceId":"",
          "appId":"",
          "room":"",
          "ip":"",
          "type":"",
          "receiveTokenId":"",
          "gender":"",
          "level":"",
```


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```
        "role":""
      },
      "ocrResults":{
        "text":"",
        "keywords":""
      }
    },
    {
      "dataId":"DataId",
      "jobId":"sif640a3c108e011ed9b3d525400*****",
      "category":"",
      "label":"Normal",
      "result":"0",
      "object":"",
      "score":"42",
      "subLabel":"",
      "text":"",
      "code":"",
      "message":"",
      "url":"https://demo-1234567890.cos.ap-chongqing.myqcloud.com/1.png",
      "compressionResult":"0",
      "pornInfo":{
        "code":"0",
        "msg":"OK",
        "hitFlag":"0",
        "score":"0",
        "label":"",
        "keywords":"",
        "count":"",
        "subLabel":"",
        "category":"",
        "ocrResults":{
          "text":"",
          "keywords":""
        }
      },
      "adsInfo":{
        "code":"0",
        "msg":"OK",
        "hitFlag":"0",
        "score":"0",
        "label":"",
        "keywords":"",
        "count":"",
        "subLabel":"",
        "category":"",
        "ocrResults":{
```


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```
            "text":"",
            "keywords":""
          }
        },
        "userInfo":{
          "tokenId":"",
          "nickname":"",
          "deviceId":"",
          "appId":"",
          "room":"",
          "ip":"",
          "type":"",
          "receiveTokenId":"",
          "gender":"",
          "level":"",
          "role":""
        },
        "ocrResults":{
          "text":"",
          "keywords":""
        }
      }
    ]
}
```

The response body is as described below:

`Response` has the following sub-nodes:

Parameter	Type	Description
JobsDetail	Array	Image moderation result.
RequestId	String	The ID automatically generated by the server for a request when the request is sent, which can help locate problems faster.

`JobsDetail` has the following sub-nodes:

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.

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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 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` .
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), and `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 tag 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 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.

The moderation information (such as `PornInfo` and `AdsInfo`) has the following sub-nodes:

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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. Returned 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 tag 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` presents the sexy category in the `Porn` tag.
SubLabel	String	Second-level tag 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 Name (Keyword)	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 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.

`OcrResults` has the following sub-nodes:

Node Name (Keyword)	Type	Description

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Text	String	Sensitive OCR text content
Keywords	String Array	Sensitive words in the text content

`UserInfo` has the following sub-nodes (same as `UserInfo` in the request):

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)	Type	Description
ListResults	Container Array	Results in all hit lists.

`ListResults` has the following sub-nodes:

Node Name (Keyword)	Type	Description
ListType	String	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.

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Video Moderation

Last updated：2024-02-29 17:31:27

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

API	Description
Submitting video moderation job	Submits video moderation job.
Querying video moderation job result	Queries the result of specified video moderation job.

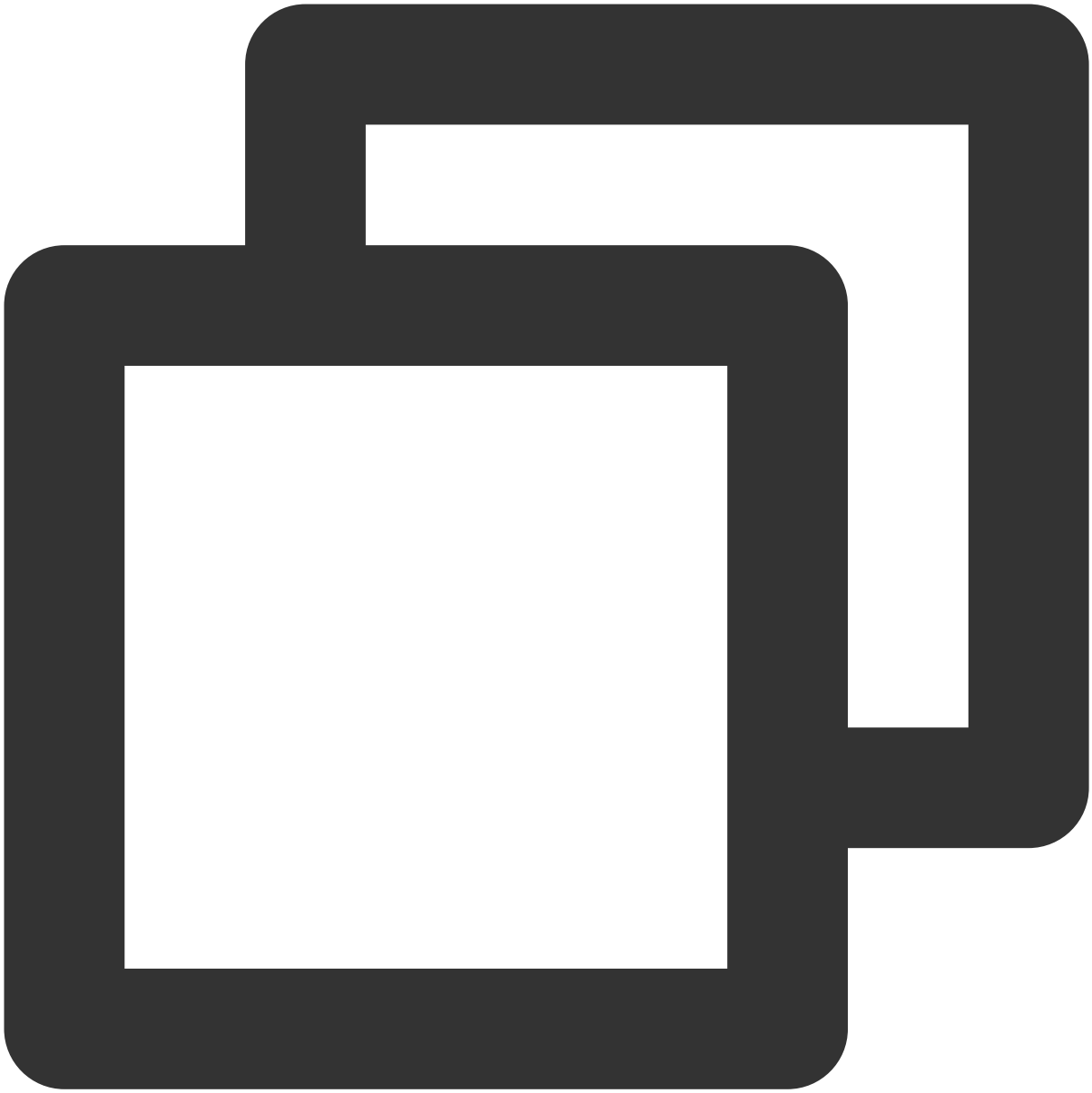
Submitting Video Moderation Job

Feature description

This API is used to submit a video moderation job.

Method prototype

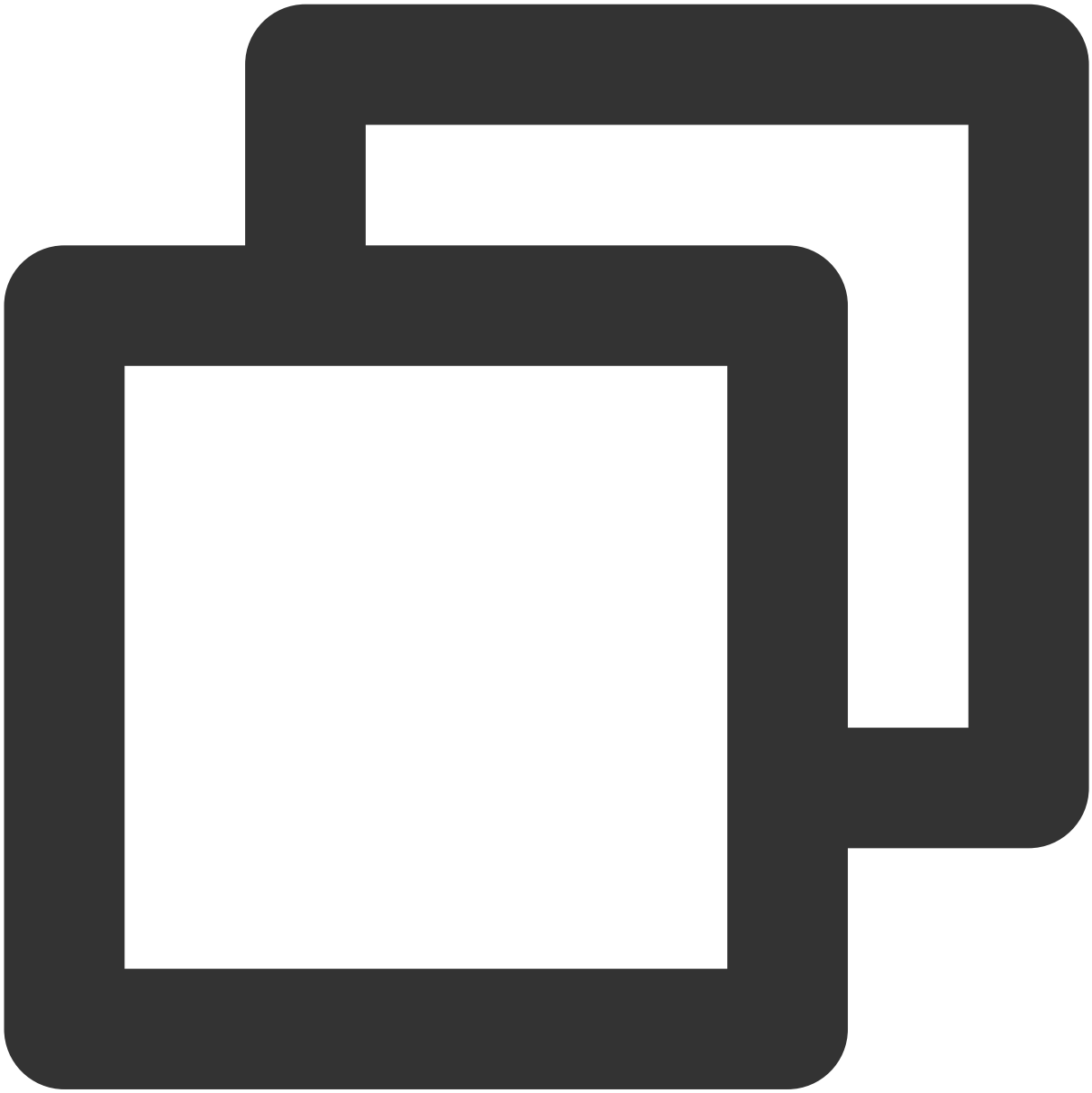
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```
VideoAuditingResponse createVideoAuditingJob(VideoAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
VideoAuditingRequest request = new VideoAuditingRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.getInput().setObject("1.mp4");
request.getConf().setDetectType("Porn,Ads");
request.getConf().getSnapshot().setCount("10");
request.getConf().getSnapshot().setMode("Interval");
request.getConf().getSnapshot().setTimeInterval("10");
//3. Call the API to get the job response object
VideoAuditingResponse response = client.createVideoAuditingJob(request);
```

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Parameter description

`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	Yes
Url	Request.Input	Full URL of the video file, such as `http://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/test.mp4` . 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
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads` .	String	Yes
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

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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
BizType	Request.Conf	Moderation policy. If this parameter is not specified, the default policy will be used.	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

`Snapshot` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Mode	Request.Conf.Snapshot	Frame capturing mode. Valid values: `Interval` (interval mode), `Average` (average mode), `Fps` (fixed frame rate mode). `Interval` mode: The `TimeInterval` and `Count` parameters take effect. If `Count` is set but `TimeInterval` is not, all frames will be captured to generate a total of `Count` images. `Average` mode: The `Count` parameter takes effect, indicating to capture a total of `Count` images at an average interval in the entire video. `Fps` mode: `TimeInterval` indicates how many frames to capture per second, and `Count` indicates how many frames to capture in total.	String	No
Count	Request.Conf.Snapshot	The number of captured frames. Value range: (0, 10000].	String	No
TimeInterval	Request.Conf.Snapshot	Video frame capturing frequency. Value range: (0.000, 60.000] seconds. The value supports the float format, accurate to the millisecond.	Float	No

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Response description

Success: The `VideoAuditingResponse` media moderation job result object is returned upon success.
Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

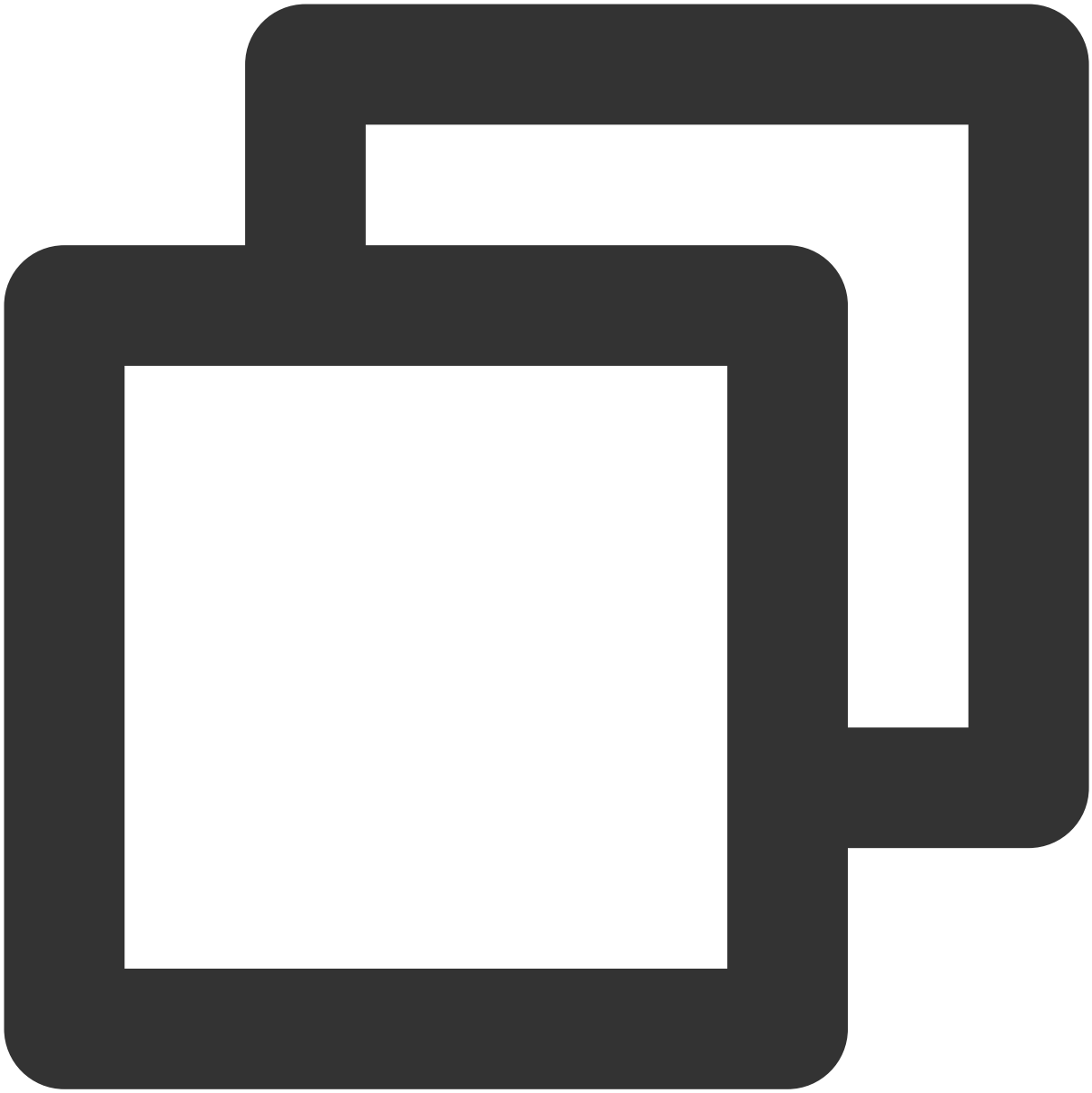
Querying Video Moderation Job Result

Feature description

This API is used to query the status and result of a video moderation job.

Method prototype

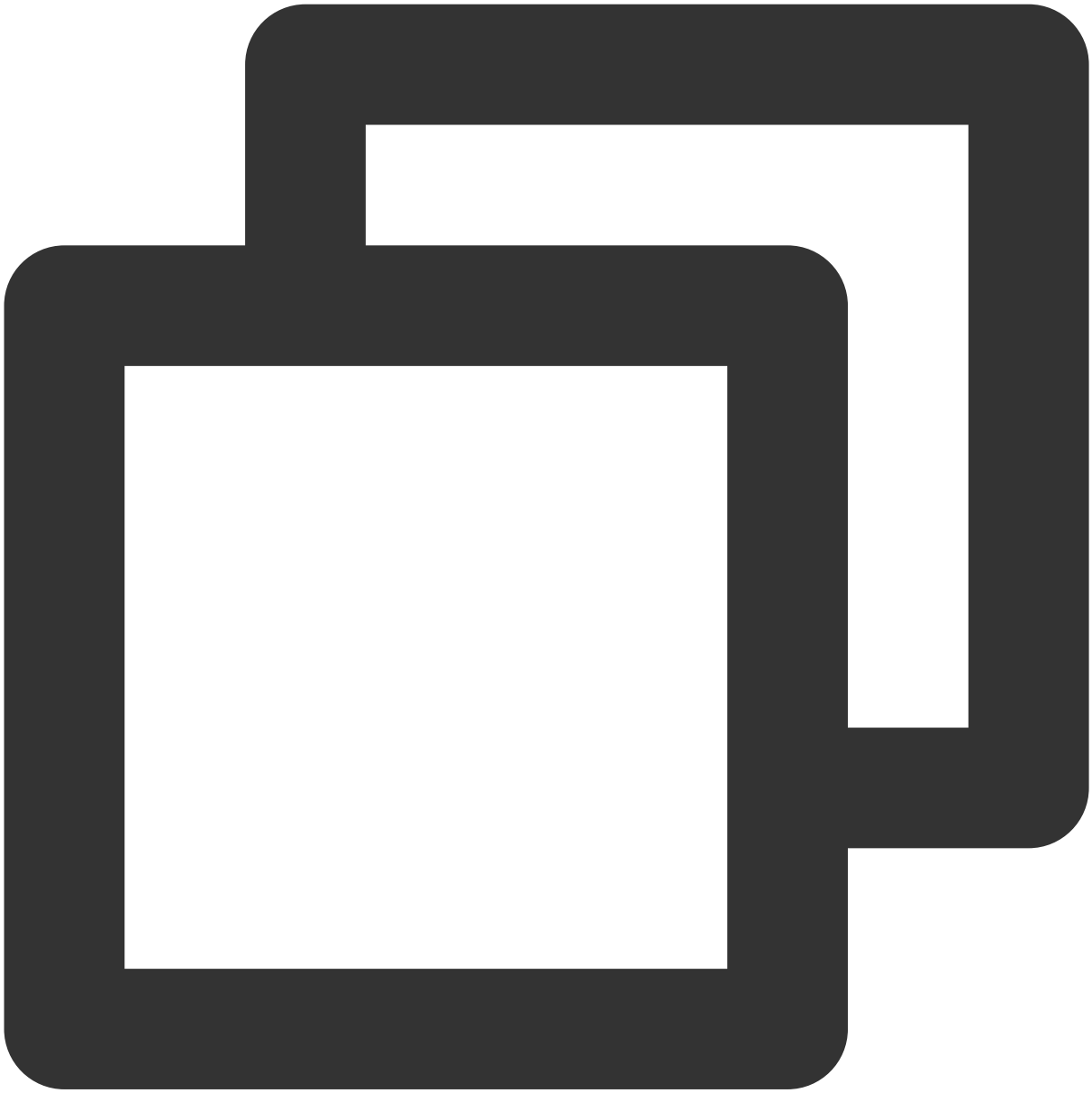
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```
VideoAuditingResponse describeAuditingJob(VideoAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
VideoAuditingRequest request = new VideoAuditingRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setJobId("av81591b4bbd2211eb80235254008*****");
//3. Call the API to get the job response object
VideoAuditingResponse response = client.describeAuditingJob(request);
```

Parameter description

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Parameter	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
jobId	ID of the job to be queried.	String	Yes

Response description

Success: The `VideoAuditingResponse` moderation job result object is returned.

Failure: If an error (such as authentication failure) occurs, the `CosClientException` or `CosServiceException` exception will be reported. For more information, see Troubleshooting.

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Audio Moderation

Last updated：2024-02-29 17:31:27

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for audio moderation.

API	Description
Submitting audio moderation job	Submits audio moderation job.
Querying audio moderation job result	Queries the result of specified audio moderation job.

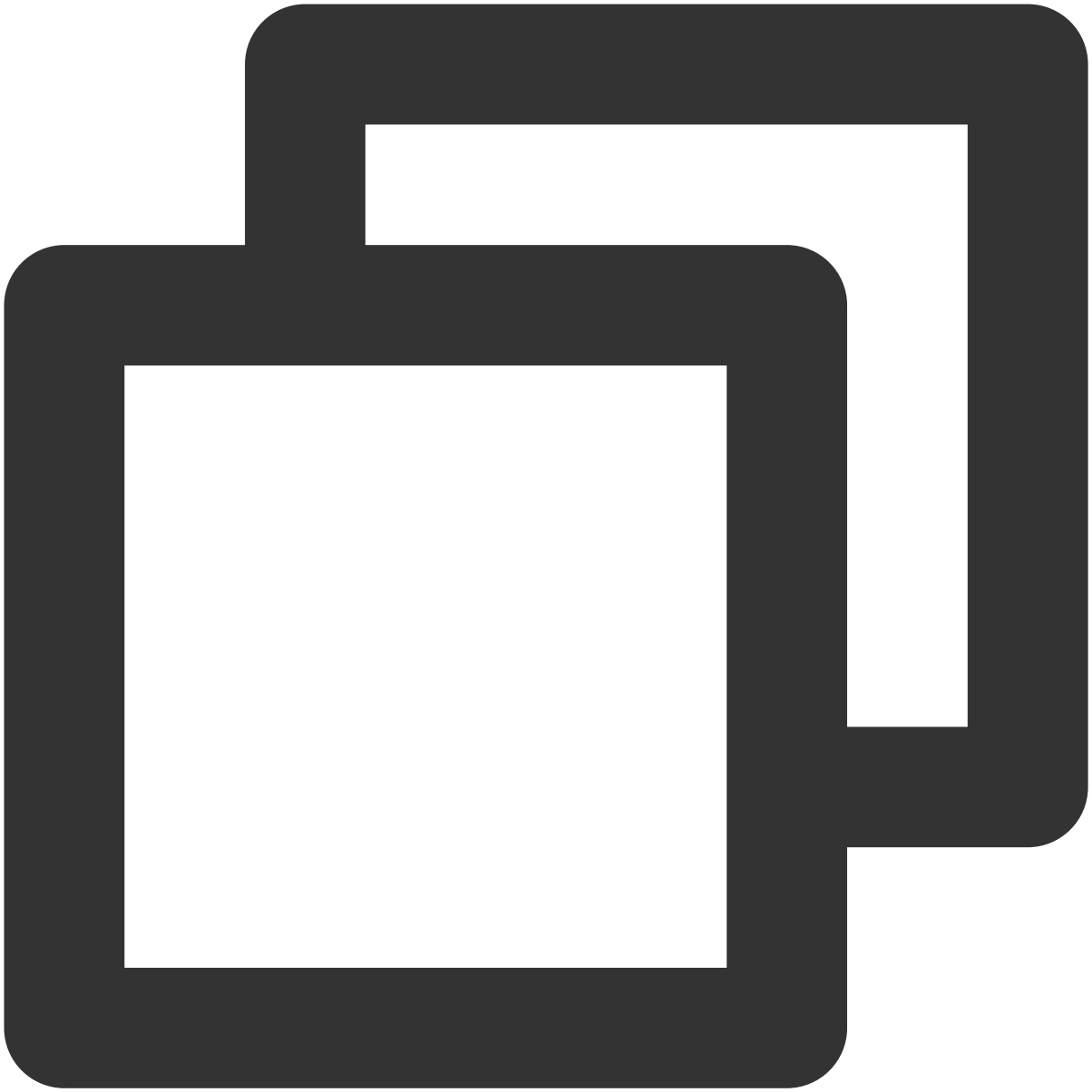
Submitting Audio Moderation Job

Feature description

This API is used to submit an audio moderation job.

Method prototype

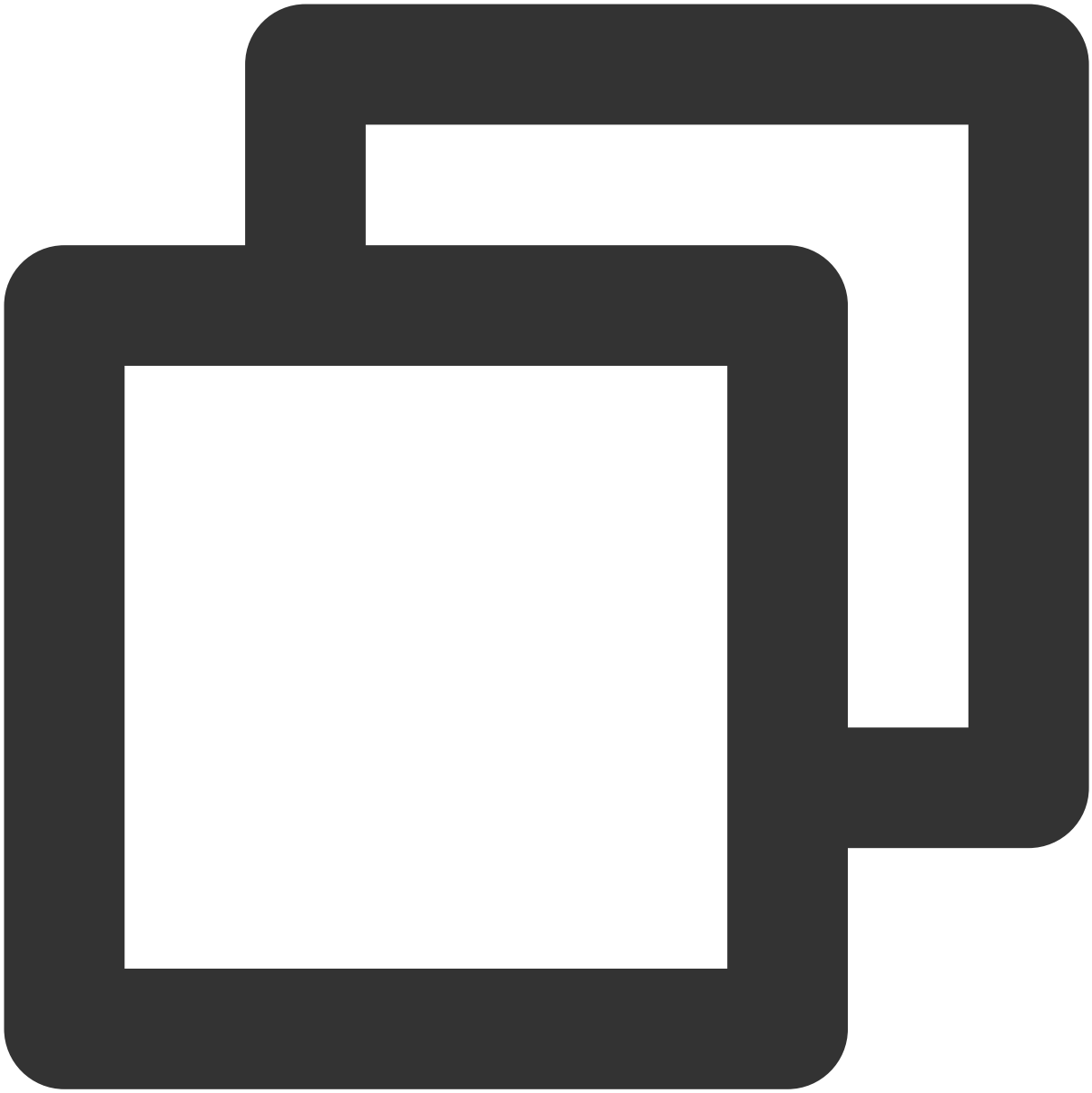
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```
AudioAuditingResponse createAudioAuditingJob(AudioAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
AudioAuditingRequest request = new AudioAuditingRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.getInput().setObject("pron.mp3");
request.getConf().setDetectType("Porn,Ads");
request.getConf().setCallback("http://cloud.tencent.com/");
//3. Call the API to get the job response object
AudioAuditingResponse response = client.createAudioAuditingJobs(request);
```

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Parameter description

`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

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
BizType	Request.Conf	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console.	String	No
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 comma, 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	String	No

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		`https://` are supported, such as `http://www.callback.com`.		
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

Response description

Success: The `AudioAuditingResponse` audio moderation job result object is returned upon success.
Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

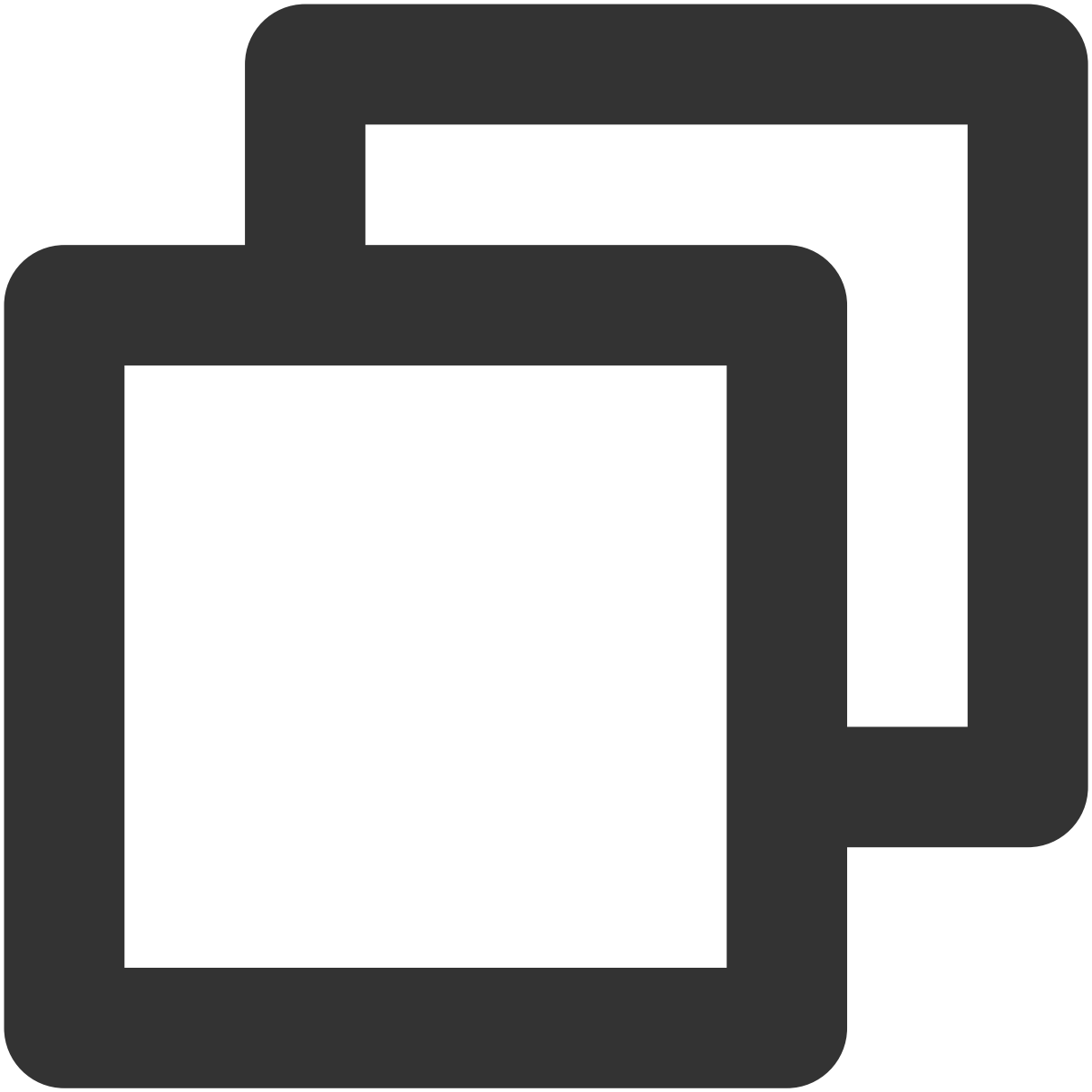
Querying Audio Moderation Job

Feature description

This API is used to query the status and result of an audio moderation job.

Method prototype

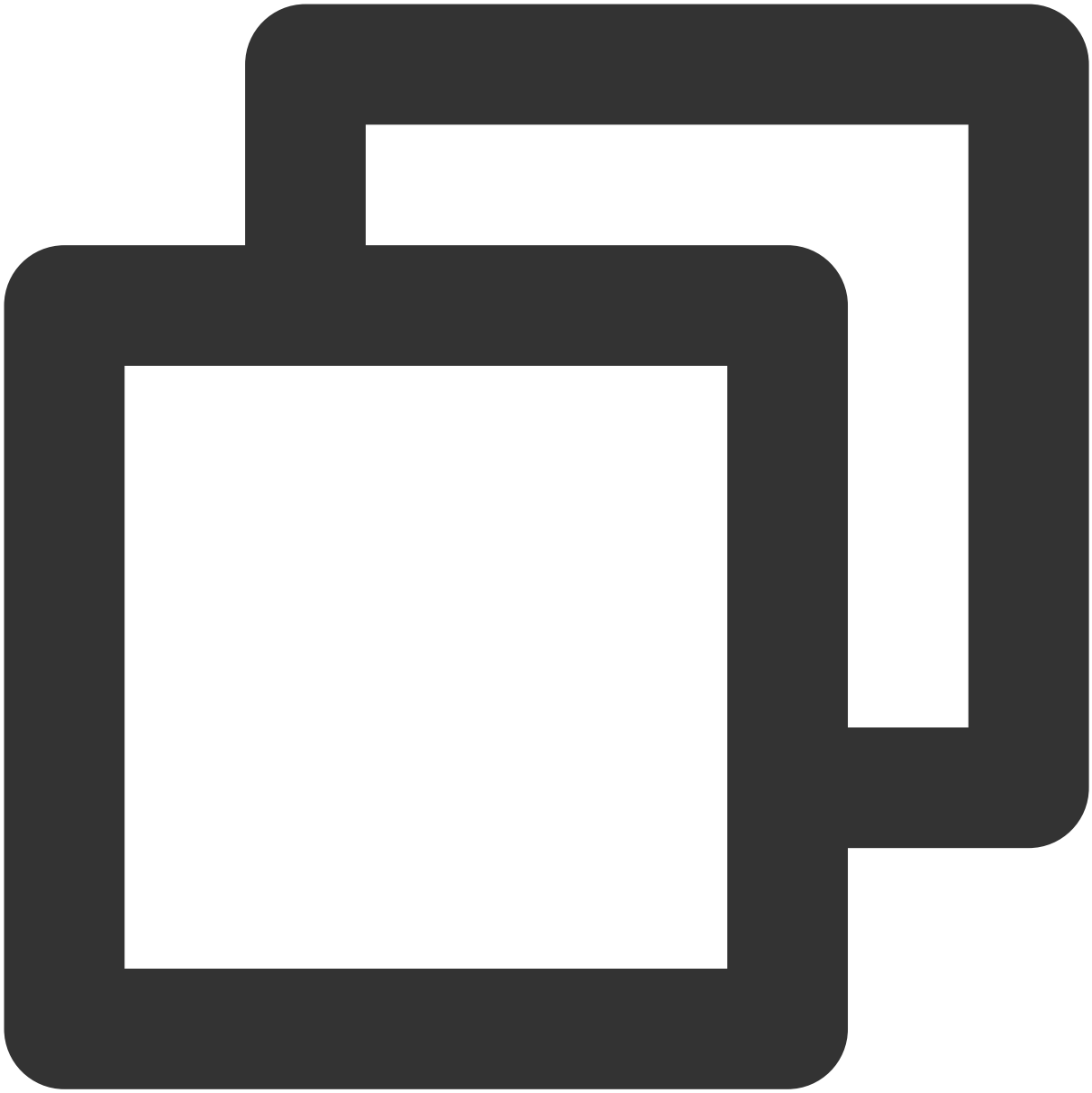
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```
AudioAuditingResponse describeAuditingJob(AudioAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
AudioAuditingRequest request = new AudioAuditingRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setJobId("sacbf7269cbd2e11eba5325254009*****");
//3. Call the API to get the job response object
AudioAuditingResponse response = client.describeAudioAuditingJob(request);
```

Parameter description

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Parameter	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
jobId	ID of the job to be queried.	String	Yes

Response description

Success: The `AudioAuditingResponse` moderation job result object is returned. For field descriptions, see Querying Audio Moderation Job Result.

Failure: If an error (such as authentication failure) occurs, the `CosClientException` or `CosServiceException` exception will be reported. For more information, see Troubleshooting.

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File Moderation

Last updated：2024-02-29 17:31:27

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for file moderation.

API	Description
Submitting file moderation job	Submits file moderation job.
Querying file moderation job result	Queries the result of specified file moderation job.

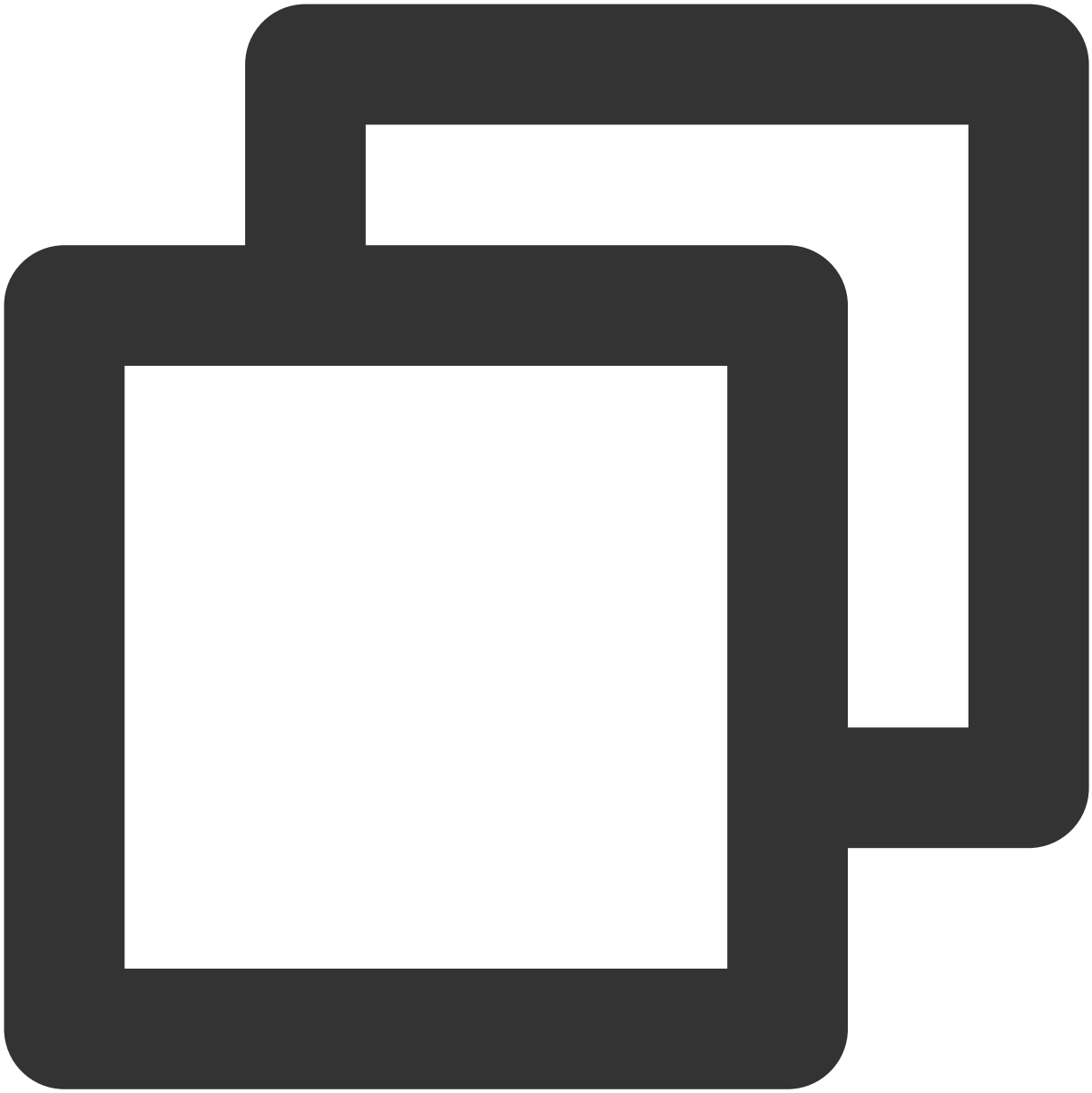
Submitting File Moderation Job

Feature description

This API is used to submit a file moderation job.

Method prototype

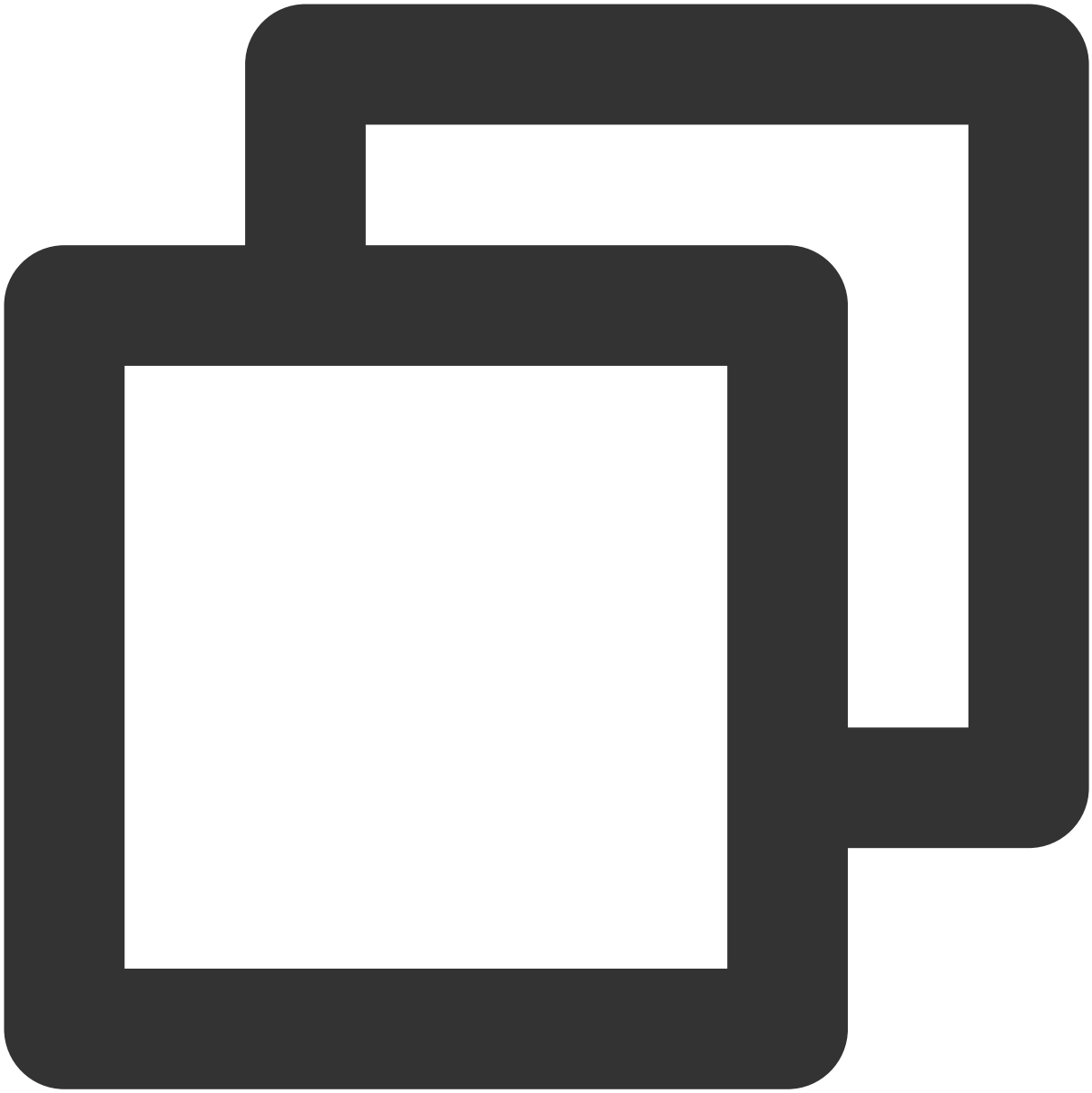
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```
DocumentAuditingResponse createAuditingDocumentJobs(DocumentAuditingRequest request
```

Sample request

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```
//1. Create a job request object
DocumentAuditingRequest request = new DocumentAuditingRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
//2.1.1 Set the object address
// request.getInput().setObject("1.txt");
//2.1.2 Or, directly set the file address
request.getInput().setUrl("https://markjrzhang-1251704708.cos.ap-chongqing.myqcloud
//2.2 Set the moderation type parameter
request.getConf().setDetectType("all");
//3. Call the API to get the job response object
```

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```
DocumentAuditingResponse response = client.createAuditingDocumentJobs(request);
```

Parameter description

`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
Url	Request.Input	Full URL of the file, such as `http://www.example.com/doctest.doc`.	String	Yes
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

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
BizType	Request.Conf	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console. For more information, see Setting Moderation Policy.	String	No
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads`.	String	No
Callback	Request.Conf	The moderation result can be sent to your callback address in the form of a callback. Addresses starting	String	No

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		with `http://` or `https://` are supported, such as `http://www.callback.com`.		

Response description

Success: The `DocumentAuditingResponse` file moderation job result object is returned upon success.

Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

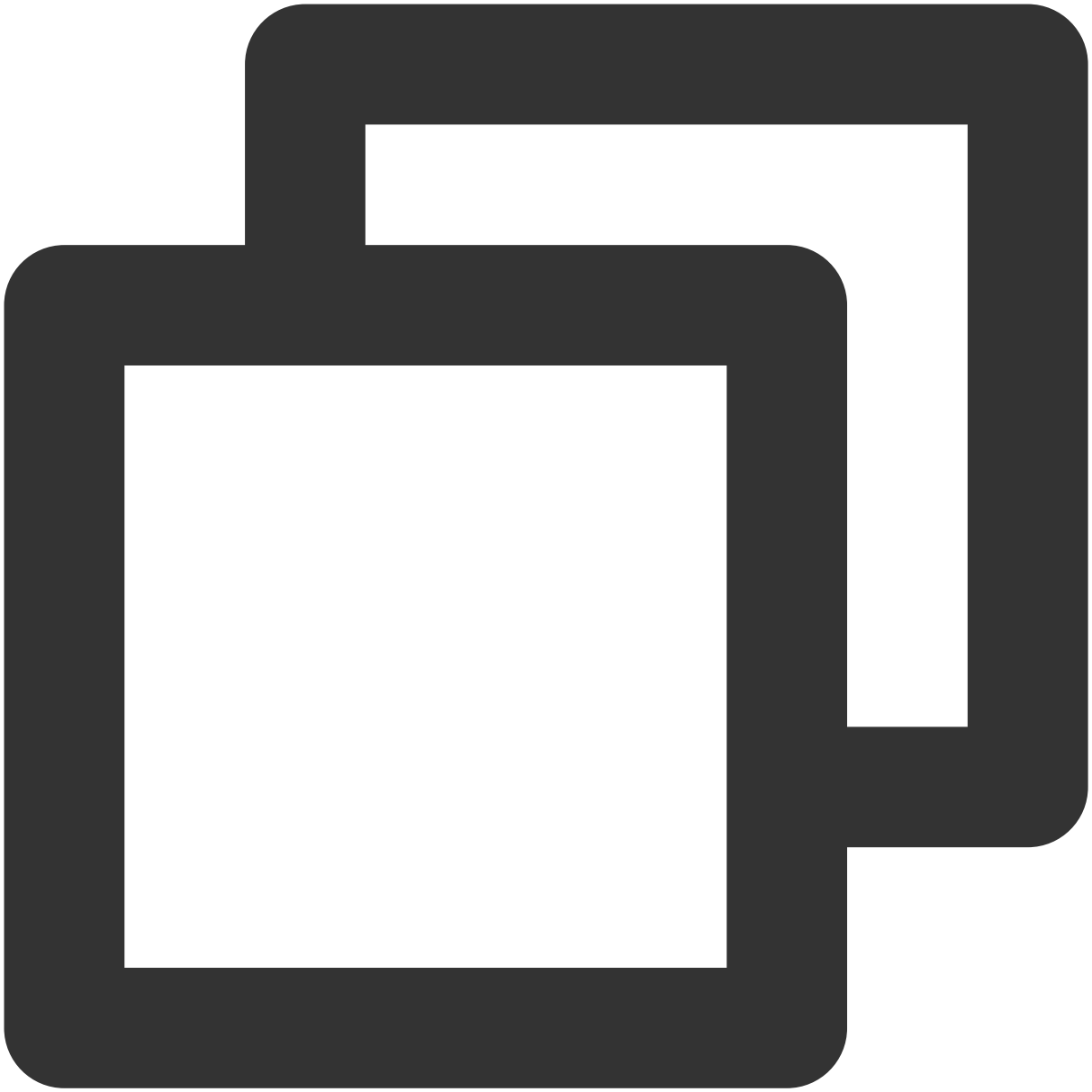
Querying File Moderation Job

Feature description

This API is used to query the status and result of a file moderation job.

Method prototype

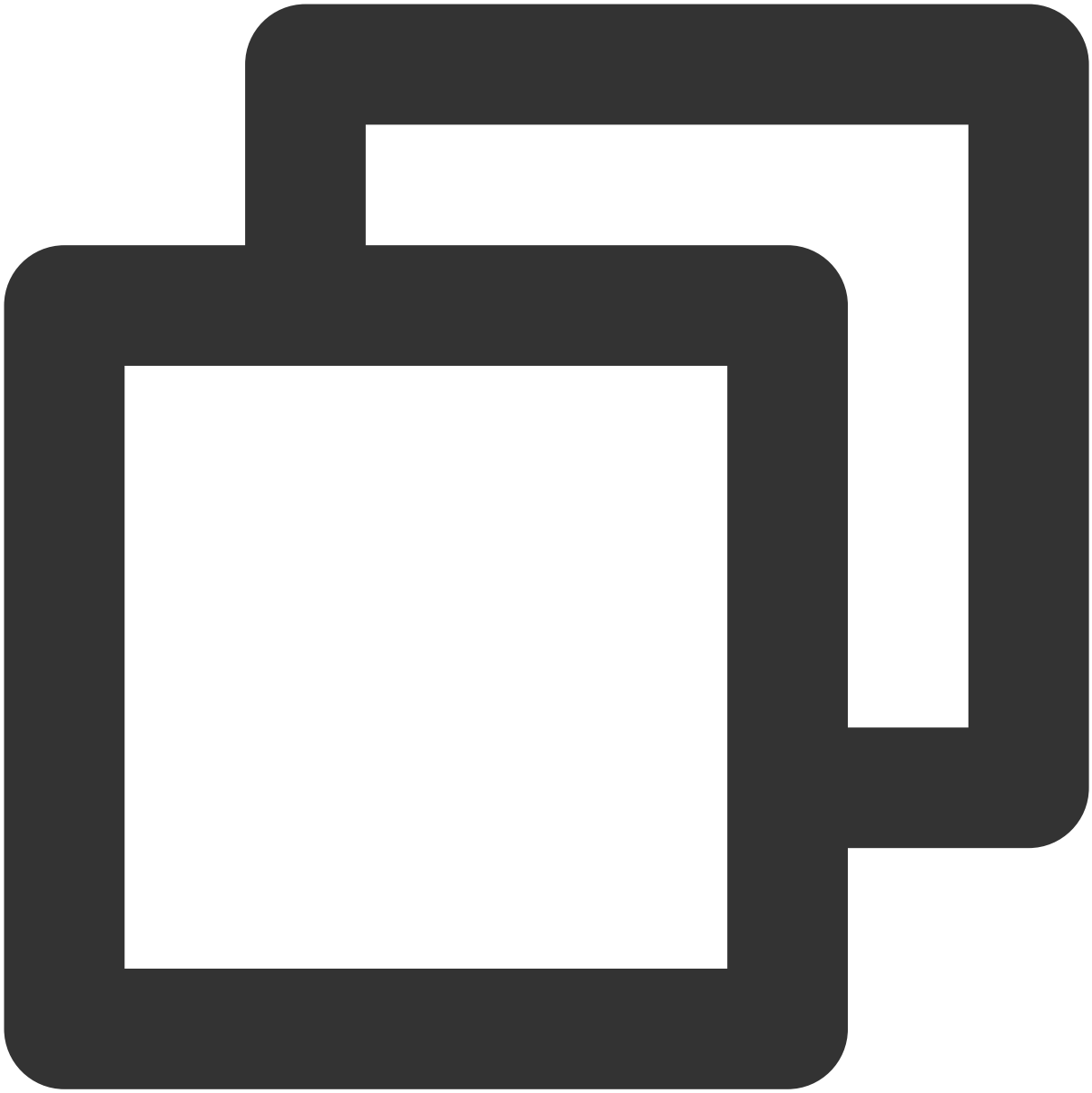
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```
DocumentAuditingResponse describeAuditingJob(DocumentAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
DocumentAuditingRequest request = new DocumentAuditingRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setJobId("sdd5d1cc630fdc11ecb3fa5254009******");
//3. Call the API to get the job response object
DocumentAuditingResponse response = client.describeAuditingDocumentJob(request);
```

Parameter description

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Parameter	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
jobId	ID of the job to be queried.	String	Yes

Response description

Success: The `DocumentAuditingResponse` moderation job result object is returned.

Failure: If an error (such as authentication failure) occurs, the `CosClientException` or `CosServiceException` exception will be reported. For more information, see Troubleshooting.

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Text Moderation

Last updated：2024-02-29 17:31:27

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for text moderation.

API	Description
Submitting text moderation job	Submits text moderation job.
Querying text moderation job result	Queries the result of specified text moderation job.

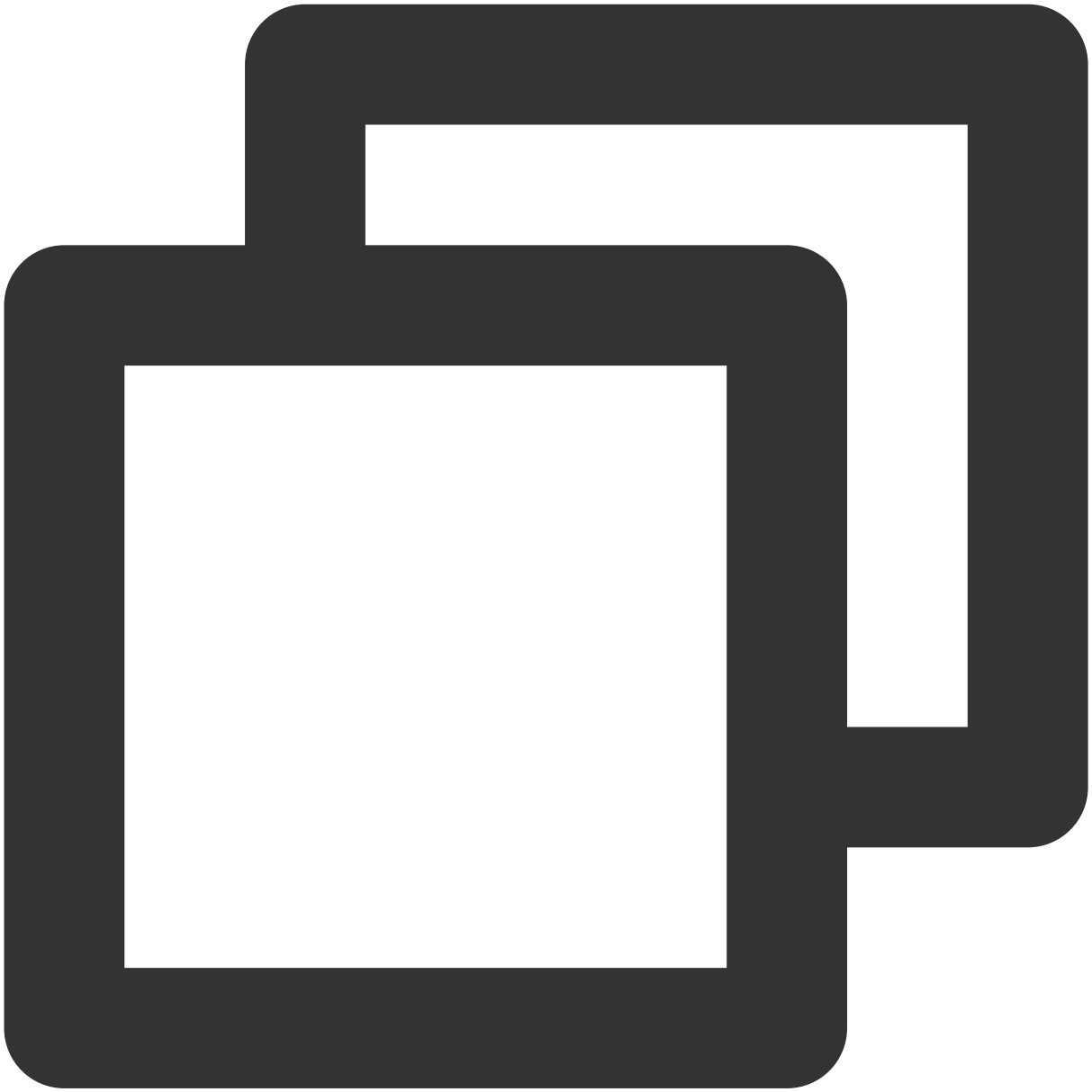
Submitting Text Moderation Job

Feature description

This API is used to submit a text moderation job.

Method prototype

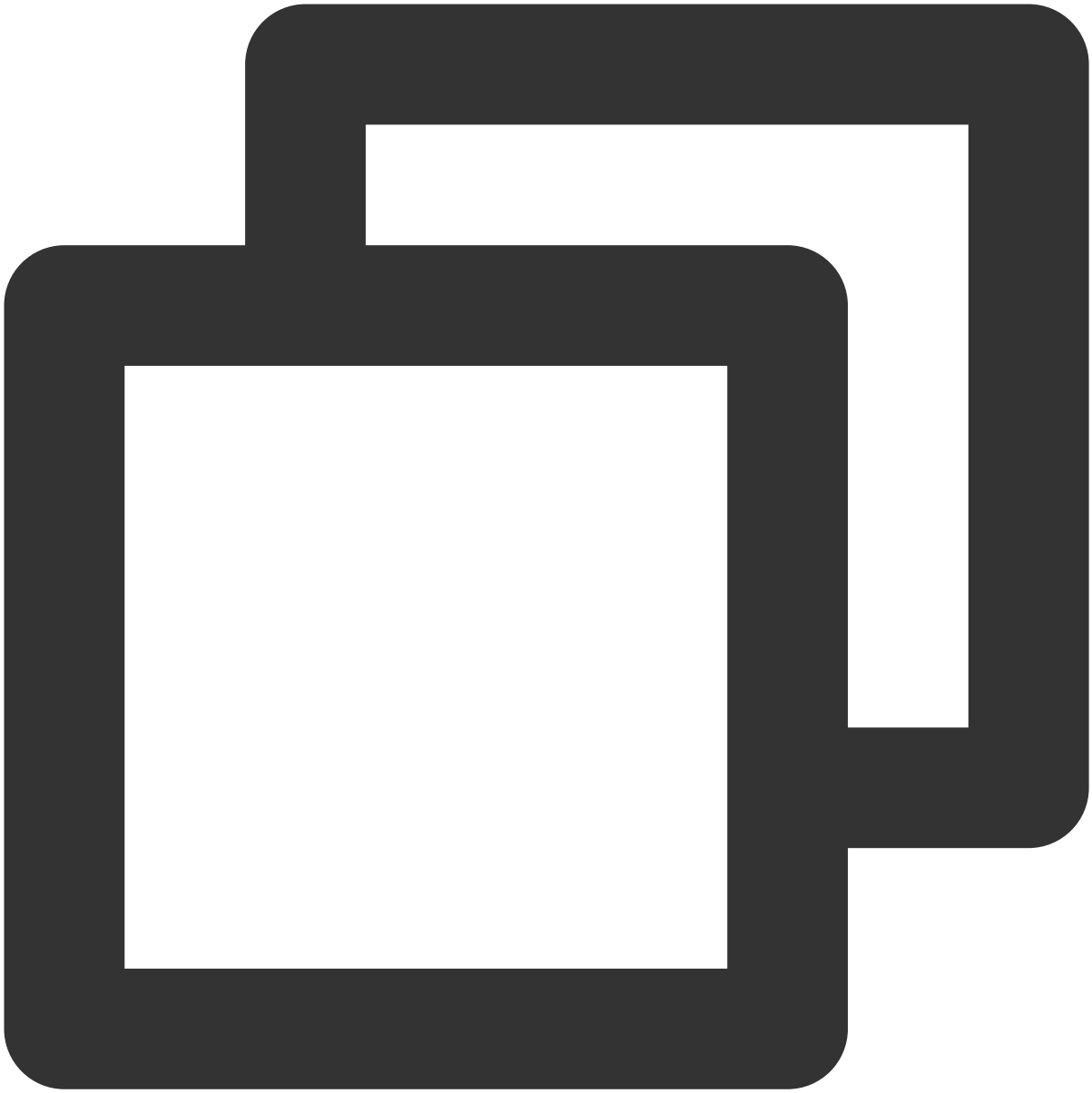
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```
TextAuditingResponse createAuditingTextJobs(TextAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
TextAuditingRequest request = new TextAuditingRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-12500000008");
//2.1.1 Set the object address
//request.getInput().setObject("1.txt");
//2.1.2 Or, directly set the request content, i.e., Base64-encoded text content
request.getInput().setContent("Base64Str");
//2.2 Set the moderation type parameter
request.getConf().setDetectType("all");
//2.3 Set the moderation template (optional)
```

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```
//request.getConf().setBizType("aa3e9d84a6a079556b0109a935c*****");
//3. Call the API to get the job response object
TextAuditingResponse response = client.createAuditingTextJobs(request);
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Text 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 text file stored in the current COS bucket; for example, if the file is `test.txt` in the `test` directory, then the filename is `test/test.txt`. Only text files in UTF-8 and GBK encodings are supported, and the file size cannot exceed 1 MB.	String	No
Content	Request.Input	When the input content is plain text, it needs to be Base64-encoded first. The length of the original text before encoding cannot exceed 10,000 UTF-8 characters. If the length limit is exceeded, the API will report an error.	String	No

Note:

`Object` and `Content` cannot be entered at the same time.

If `Object` is selected, the moderation result will be returned asynchronously, which can be obtained through the API for querying text moderation job result.

If `Content` is selected, the moderation result will be returned synchronously, which can be viewed in the response body.

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Currently, only Chinese, English, and Arabic numerals can be detected and moderated.

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
BizType	Request.Conf	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console. For more information, see Setting Moderation Policy.	String	No
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography), `Ads` (advertising), `Illegal` (illegal), and `Abuse` (abusive). You can pass in multiple types and separate them by comma, such as `Porn,Ads` .	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 description

Success: The `TextAuditingResponse` text moderation job result object is returned upon success.

Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

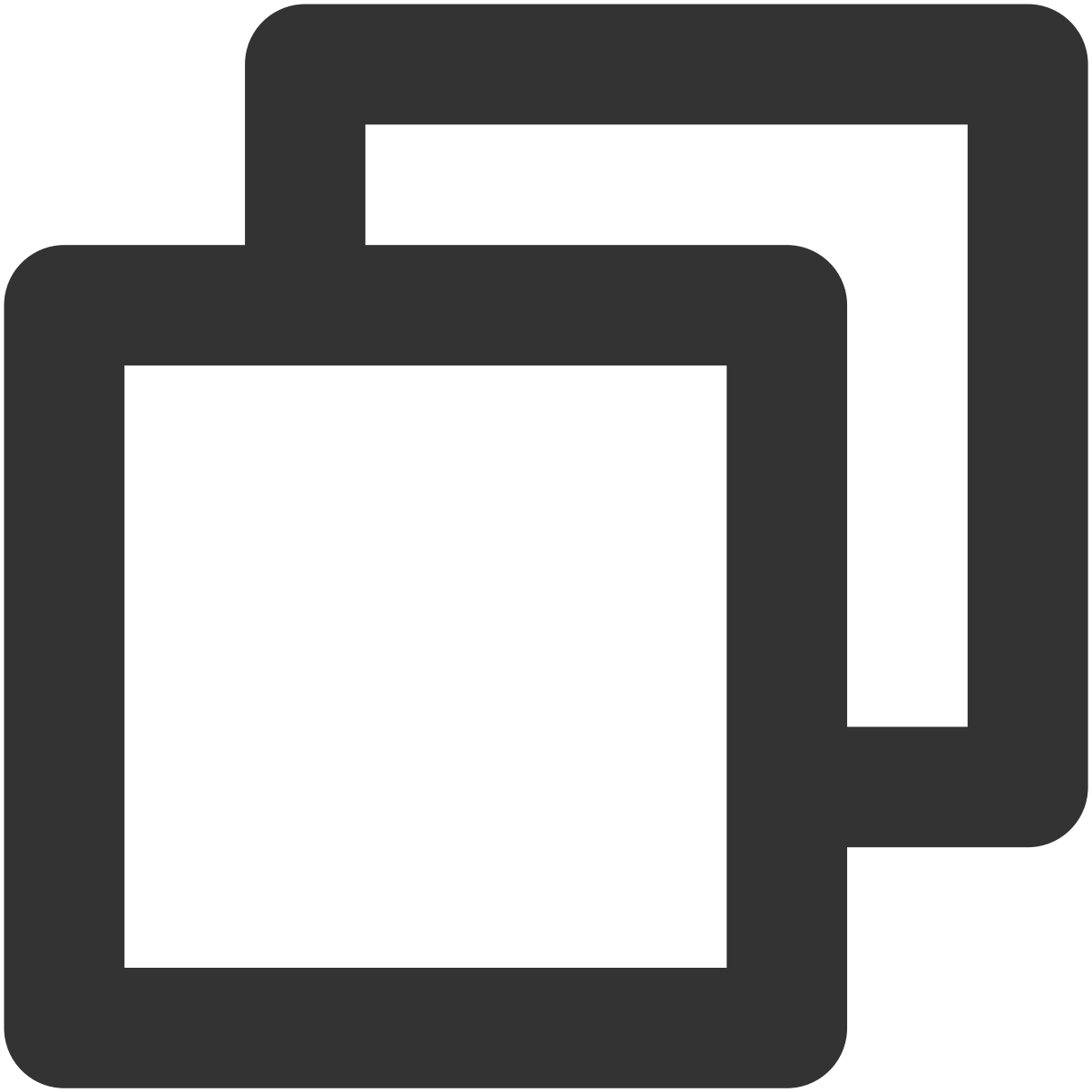
Querying Text Moderation Job

Feature description

This API is used to query the status and result of a text moderation job.

Method prototype

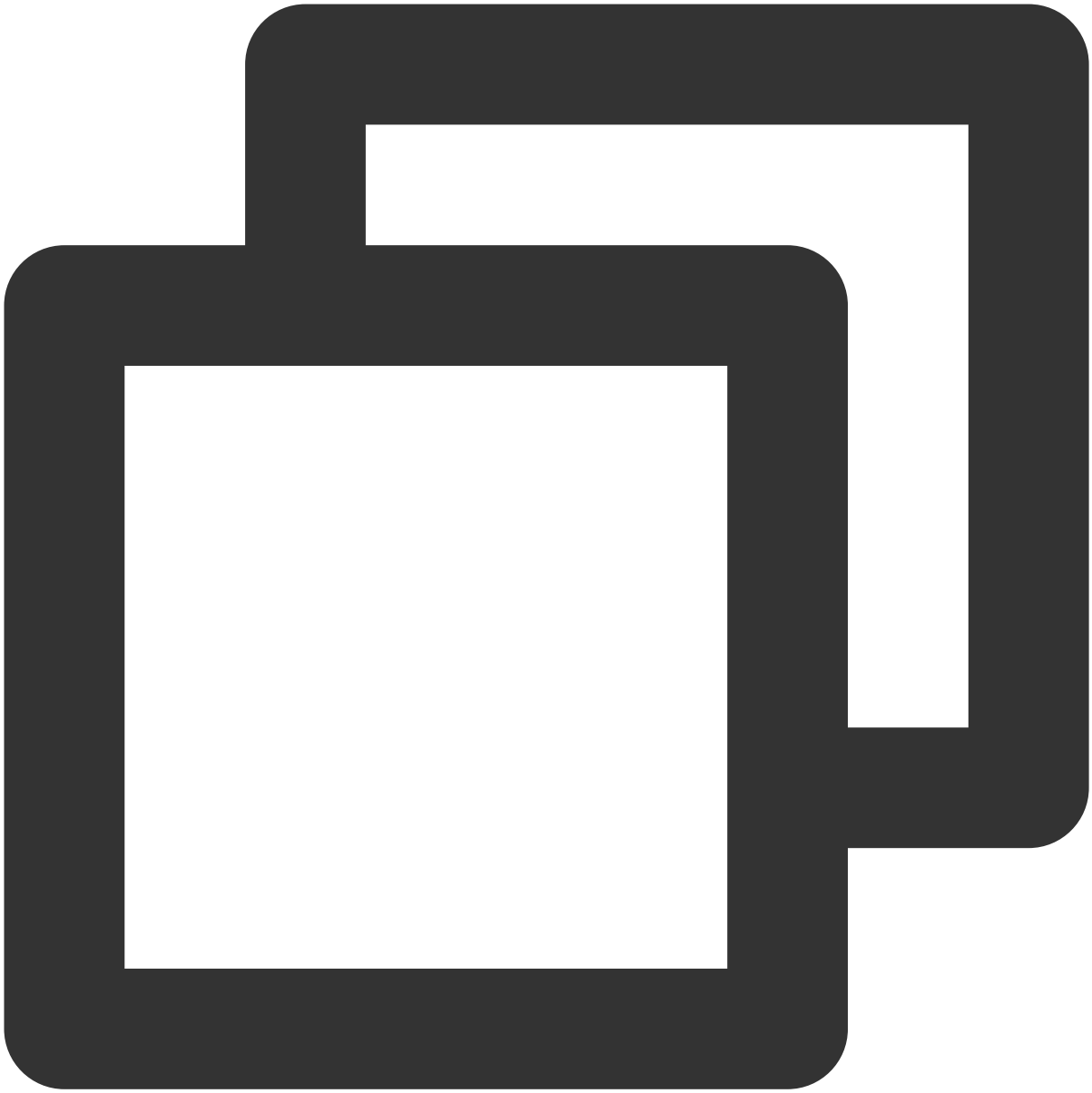
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```
TextAuditingResponse describeAuditingTextJob(TextAuditingRequest request);
```

Sample request

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```
//1. Create a job request object
TextAuditingRequest request = new TextAuditingRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("examplebucket-1250000000");
request.setJobId("st68d08596f35011eb9324525400*****");
//3. Call the API to get the job response object
TextAuditingResponse response = client.describeAuditingTextJob(request);
```

Parameter description

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Parameter	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
jobId	ID of the job to be queried.	String	Yes

Response description

Success: The `TextAuditingResponse` moderation job result object is returned.

Failure: If an error (such as authentication failure) occurs, the `CosClientException` or `CosServiceException` exception will be reported. For more information, see Troubleshooting.

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Callback Information Processing

Last updated：2024-02-29 17:31:27

Overview

This document provides SDK code samples for standard callback information parsing in CI.

XML Callback Content Parsing

Description

The common XML callback information in CI is parsed into Java objects.

Examples

This example shows you how to parse the XML callback data by getting Unmarshallers.

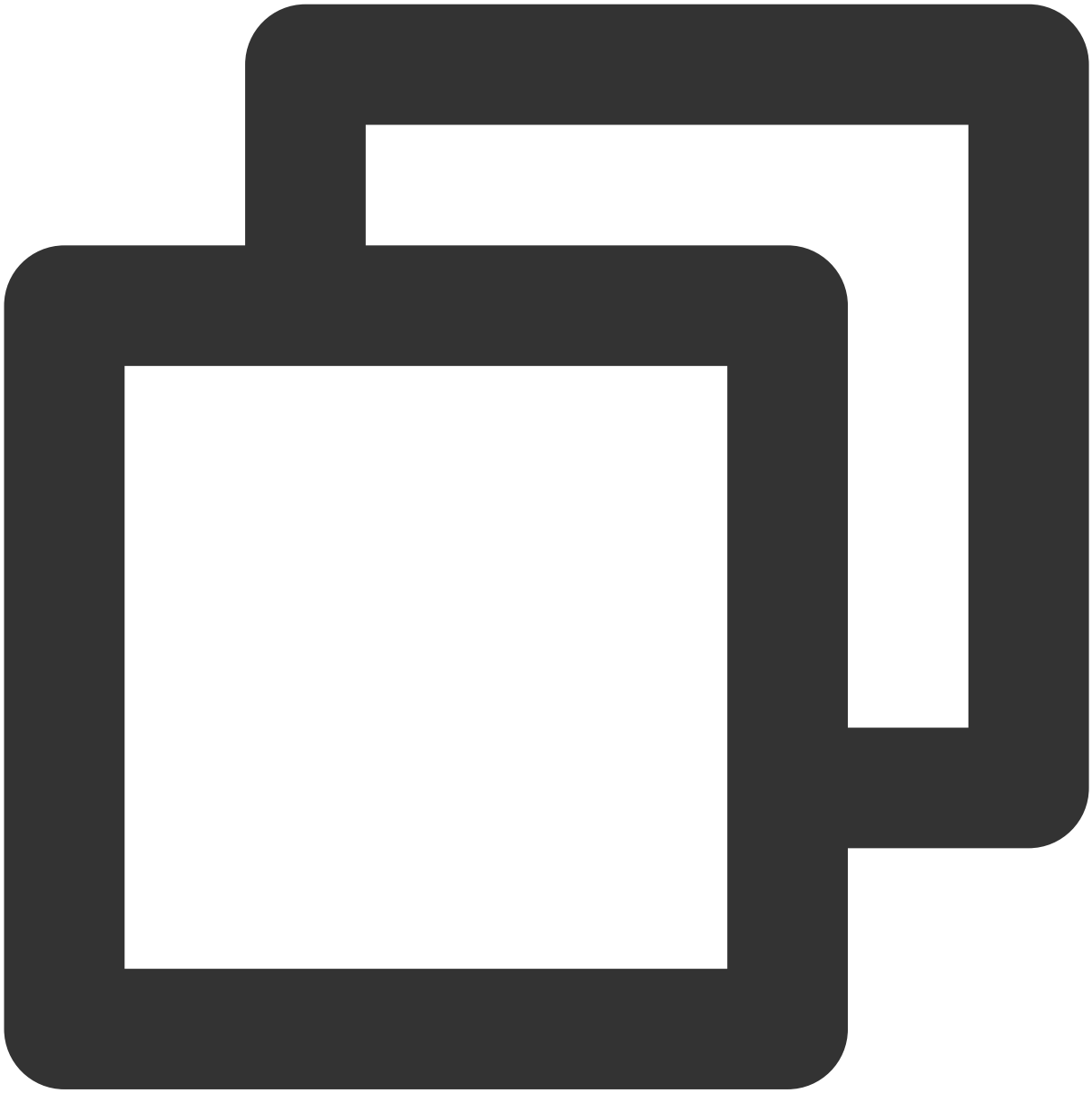
Note:

You can get the required XML parser by viewing the APIs of COSClient. You can also find out which Unmarshaller is being used by viewing the query API corresponding to the feature.

For example, the query API corresponding to the file preview callback information is `describeDocProcessJob` .

The code snippet in COSClient used to check which Unmarshaller is used by the `invoke` method.

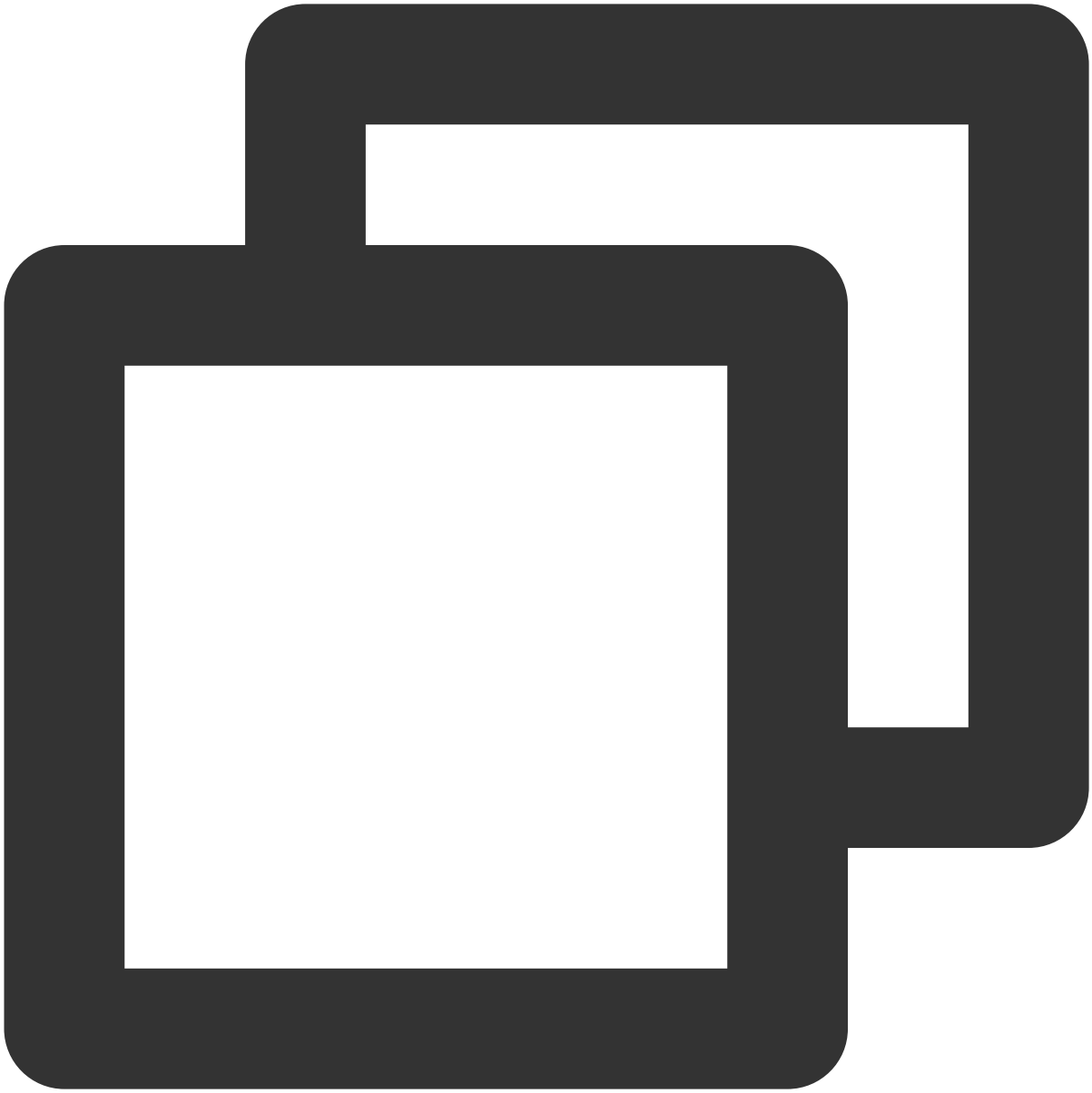
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```
@Override
public DocJobResponse describeDocProcessJob(DocJobRequest request) {
  this.checkCIRequestCommon(request);
  CosHttpRequest<DocJobRequest> httpRequest = this.createRequest(request.getBucketN
  return this.invoke(httpRequest, new Unmarshallers.DescribeDocJobUnmarshaller());
}
```

Use Unmarshaller to parse the response content.

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```
public static void processCINotifyResponse(String response) throws Exception {
  Unmarshallers.DescribeDocJobUnmarshaller describeDocJobUnmarshaller = new Unmarsh
  InputStream is = new ByteArrayInputStream(response.getBytes());
  DocJobResponse docJobResponse = describeDocJobUnmarshaller.unmarshall(is);
}
```

JSON Callback Content Parsing

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Description

The common JSON callback information in CI is parsed into Java objects.

Examples

Note:

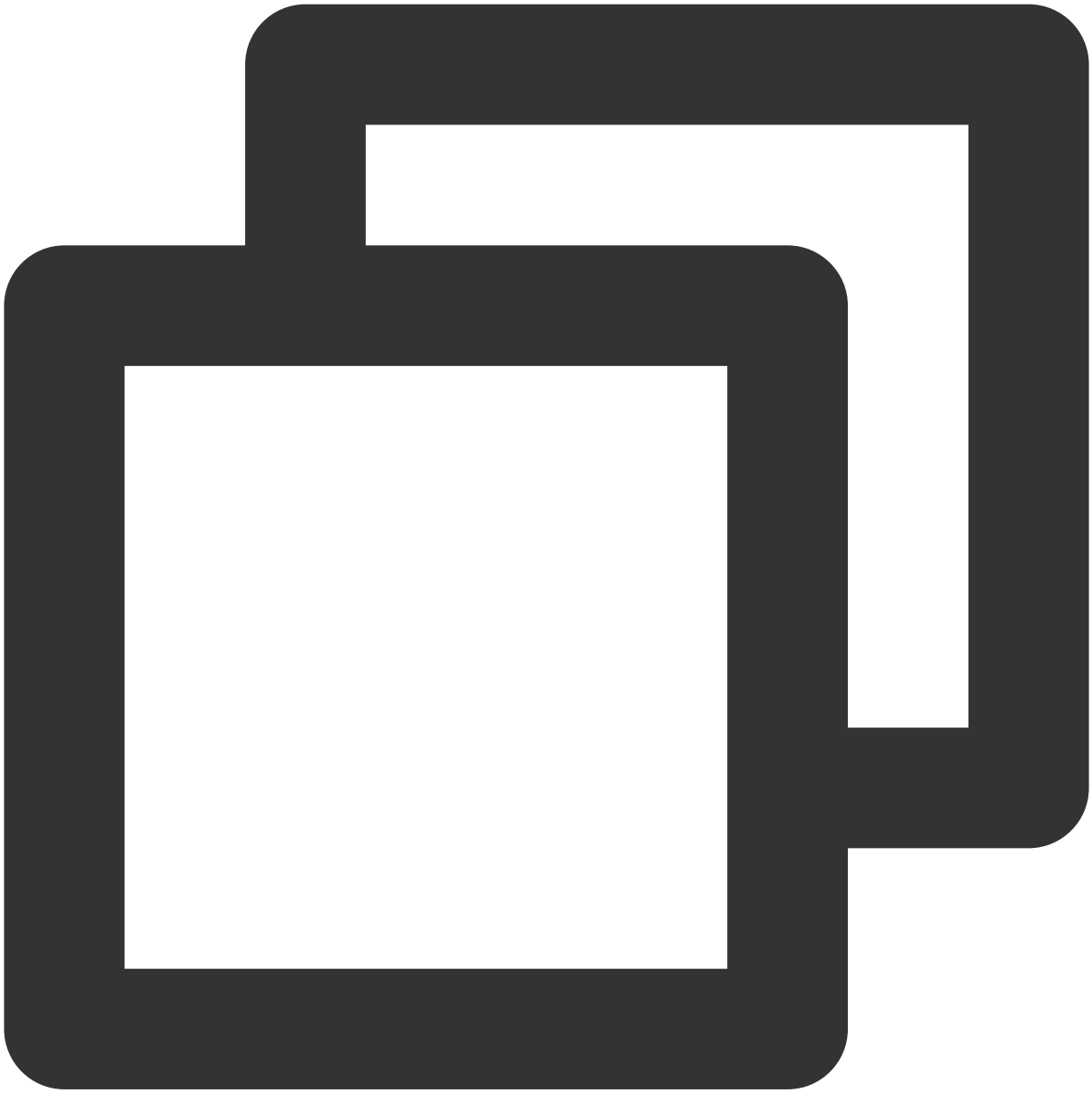
Essentially, processing JSON callbacks is to convert JSON to XML before processing.

The demo uses org.json to convert JSON to XML. This dependency is not provided in the POM of the SDK and needs to be imported by yourself.

For example, the query API corresponding to image moderation callback information is `describeAuditingImageJob` .

The code snippet in COSClient used to check which Unmarshaller is used by the `invoke` method.

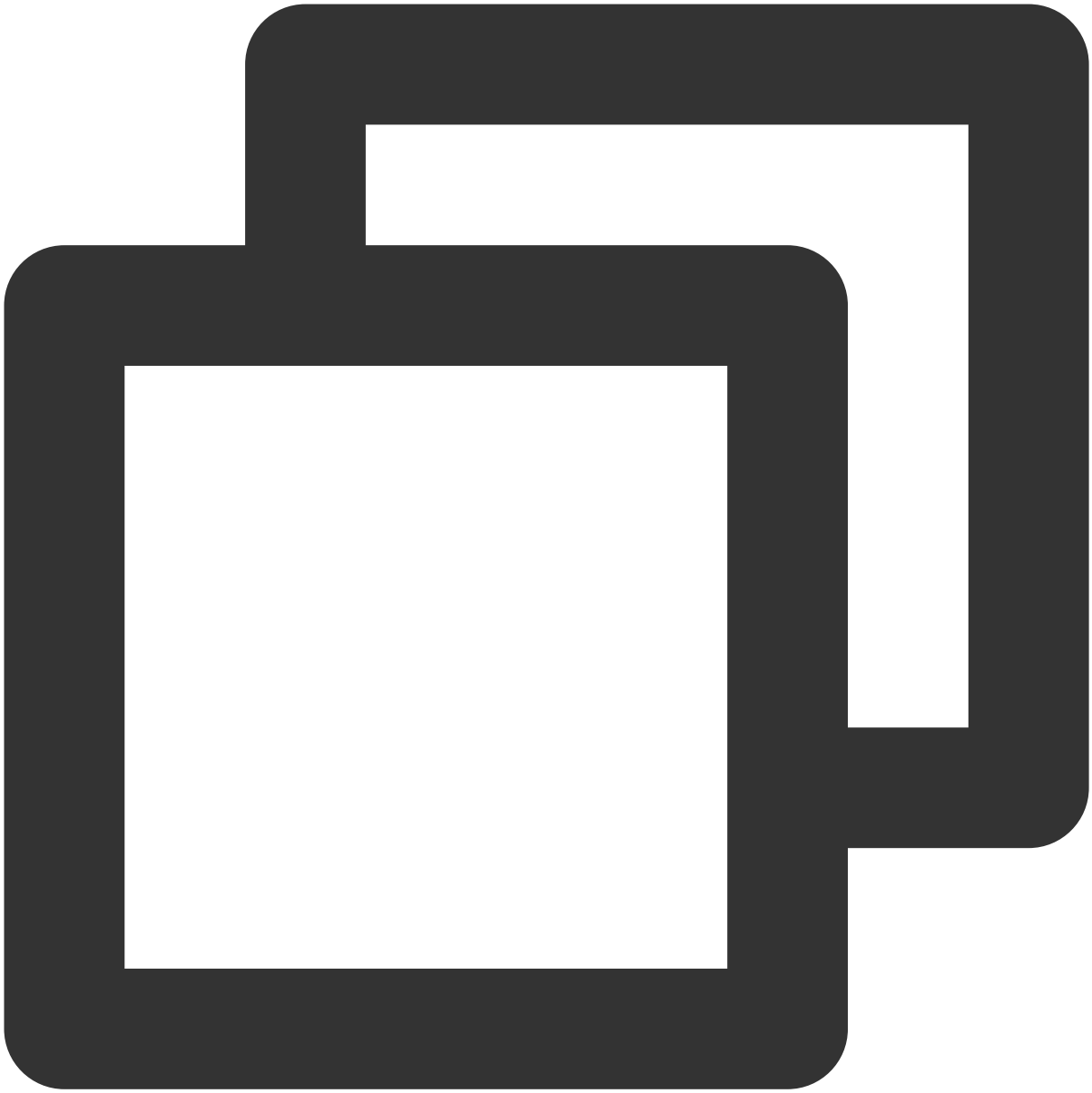
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```
@Override
public ImageAuditingResponse describeAuditingImageJob(DescribeImageAuditingRequest
  rejectNull(imageAuditingRequest.getBucketName(),
          "The bucketName parameter must be specified setting the object tags");
  rejectNull(imageAuditingRequest.getJobId(),
          "The jobId parameter must be specified setting the object tags");
  CosHttpRequest<DescribeImageAuditingRequest> request = createRequest(imageAuditin
  return invoke(request, new Unmarshallers.ImageAuditingDescribeJobUnmarshaller());
}
```

Use Unmarshaller to parse the response content after converting the JSON response to XML.

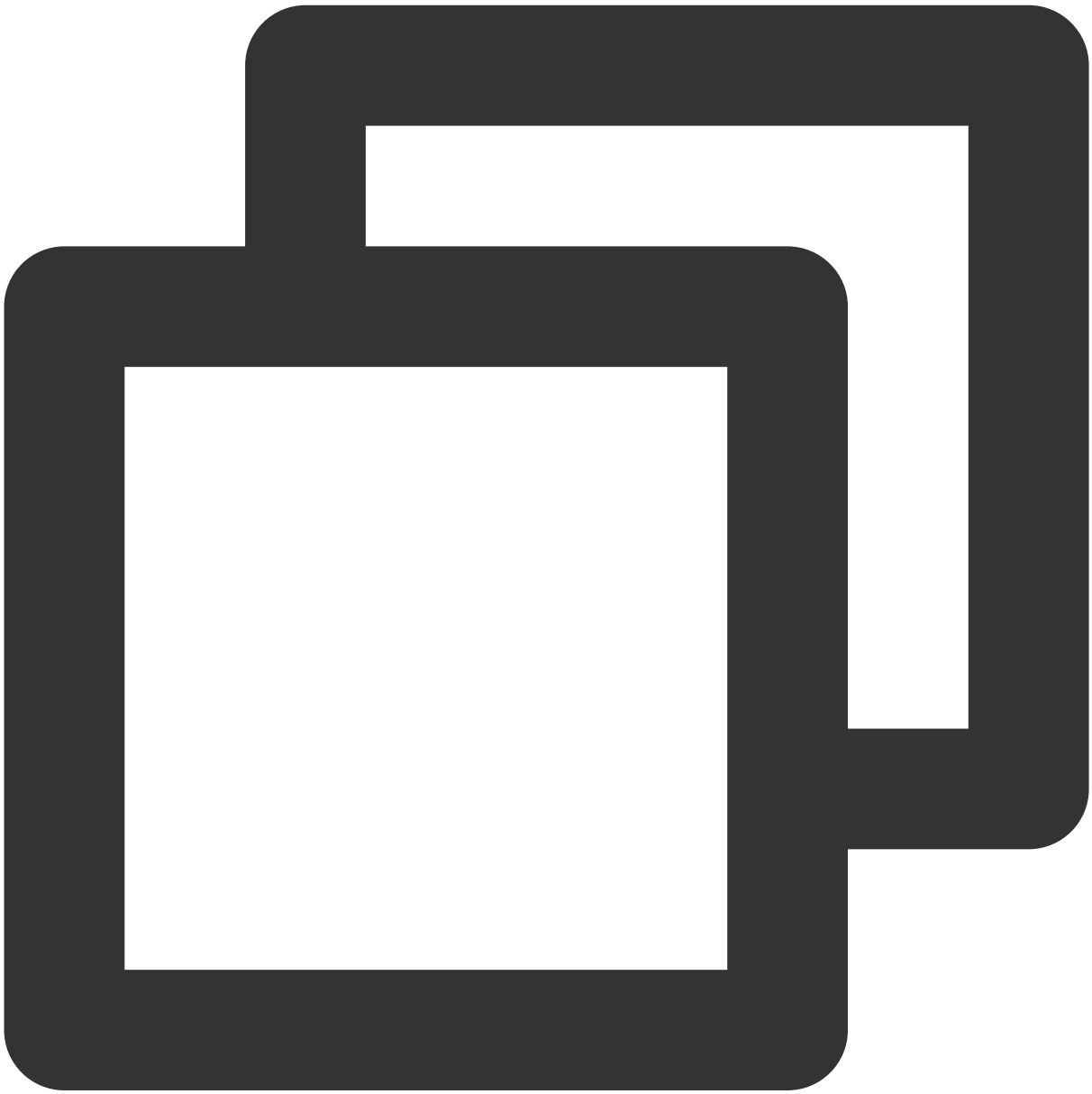
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```
// Callback demo
public static void processJsonCINotifyResponse(String jsonResponse) throws Exceptio
  JSONObject response = new JSONObject(jsonResponse);
  JSONObject json = new JSONObject();
  json.put("Response",response);
  String xml = XML.toString(json);
  Unmarshallers.ImageAuditingDescribeJobUnmarshaller imageJobUnmarshaller = new Unm
  InputStream is = new ByteArrayInputStream(xml.getBytes());
  ImageAuditingResponse imageAuditingResponse = imageJobUnmarshaller.unmarshall(is)
}
```

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org.json.json is used in the above example, which is not provided in the SDK. If you need to use it, add the following dependencies:



```
<dependency>
    <groupId>org.json</groupId>
    <artifactId>json</artifactId>
    <version>20180130</version>
</dependency>
```

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Troubleshooting

Last updated：2024-02-29 17:31:27

Overview

When calling the SDK to request the COS or CI service fails, all exceptions reported are `RuntimeExcpetion`. Common exceptions in the SDK currently include `CosClientException`, `CosServiceException`, `CIServiceException`, and `IllegalArgumentException`.

Client Exceptions

`CosClientException` results from unexpected interaction issues between the client and the COS server, such as a failure to connect to the server, a failure to parse the data returned by the server, or the occurrence of an IO exception when reading a local file. Inherited from `RuntimeException`, `CosClientException` has no custom member variables, and is used in the same way as `RuntimeException`.

Server Exceptions

`CosServiceException` and `CIServiceException` refer to scenarios where the interaction is completed normally but the operation fails; for example, the client accesses a bucket that does not exist, deletes a file that does not exist, or does not have the permission to perform the operation, or the server fails.
`CosServiceException` contains the status code, request ID, and error details. After such an exception is captured, we recommend you print out the entire exception as it contains necessary factors for troubleshooting. The following describes the member variables of the exception:

Request Element	Description	Type
requestId	Request ID, which is used to identify a request and is very important for troubleshooting.	String
traceId	ID for troubleshooting	String
statusCode	Status code in the response. 4xx indicates that the request failed due to a client exception. 5xx indicates that the request failed due to a server exception. For more information, see Error Codes.	String
errorType	Enumeration type, indicating the type of exception, such as `Client`,	ErrorType

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	`Service` , and `Unknown` .	
errorCode	Error code returned by the body when the request fails. For more information, see Error Codes.	String
errorMessage	Error message returned by the body when the request fails. For more information, see Error Codes.	String

Using the Diagnosis Tool

CI provides a self-help diagnosis tool to help you quickly locate request errors and debug the code.

Directions

1. Copy the request ID (`RequestId`) returned when the request error occurs.
2. Click Diagnosis Tool.
3. Enter `RequestId` and click **Diagnose**.
4. Wait and view the diagnostic result.

FAQs

If you have any questions about the Java SDK, see FAQs.

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File Processing
Hash Calculation

Last updated：2024-02-29 17:31:27

Overview

This document provides an overview of APIs and SDK code samples for hash calculation in CI.

API	Description
Submitting a hash calculation job	Creates a hash calculation job.
Querying the hash calculation result	Queries the result of a hash calculation job.

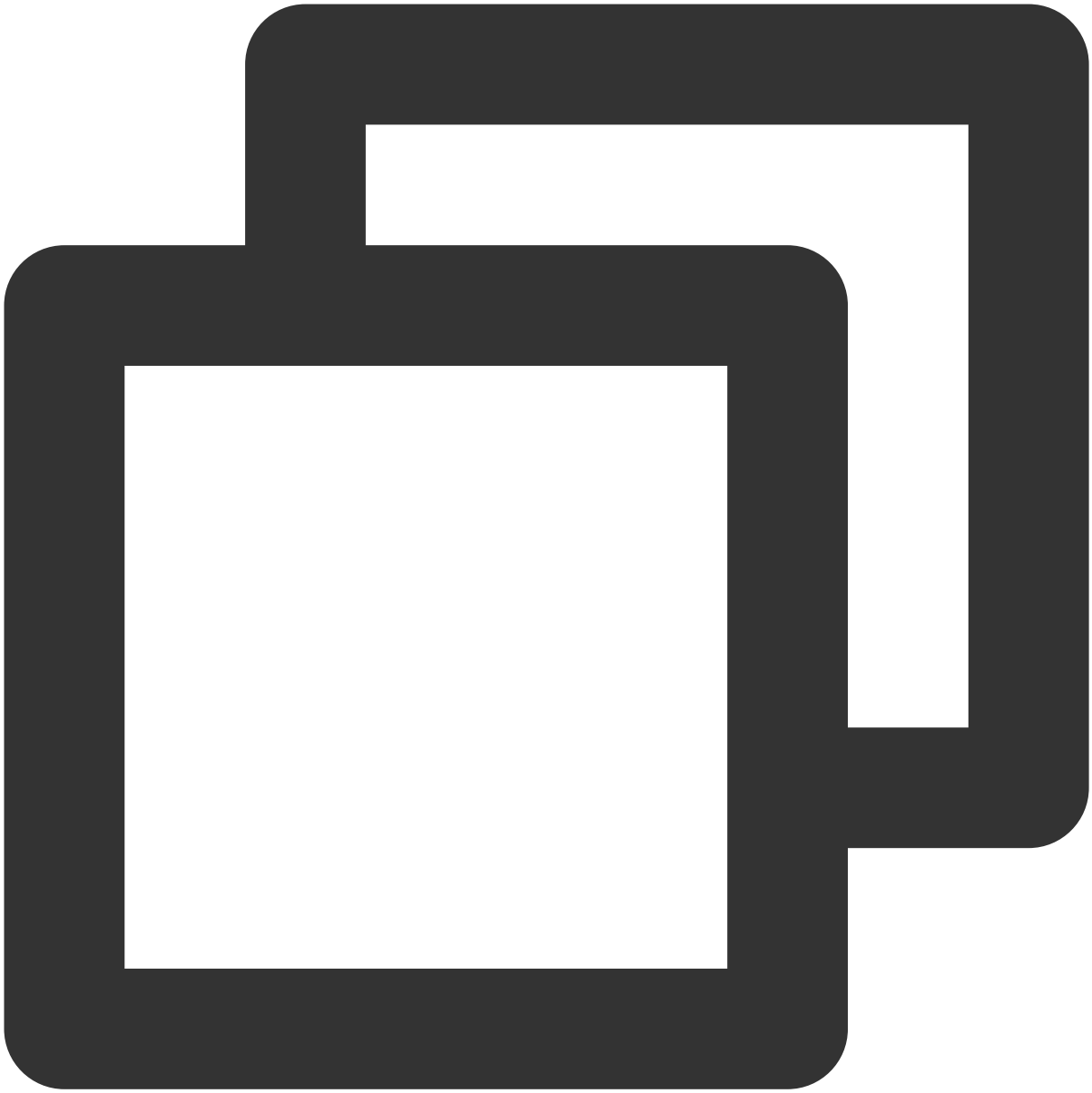
Submitting a Hash Calculation Job

Feature description

This API is used to submit a job to perform hash calculation and asynchronously return a calculated hash value.

Method prototype

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```
public FileProcessJobResponse createFileProcessJob(FileProcessRequest request);
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
tag	Request	Job type. It is `FileHashCode` for hash calculation.	String	Yes

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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
callBackMqConfig	Request	TDMQ configuration for job callback as described in Structure, 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`,	String	Yes

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		`SHA256`.		
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

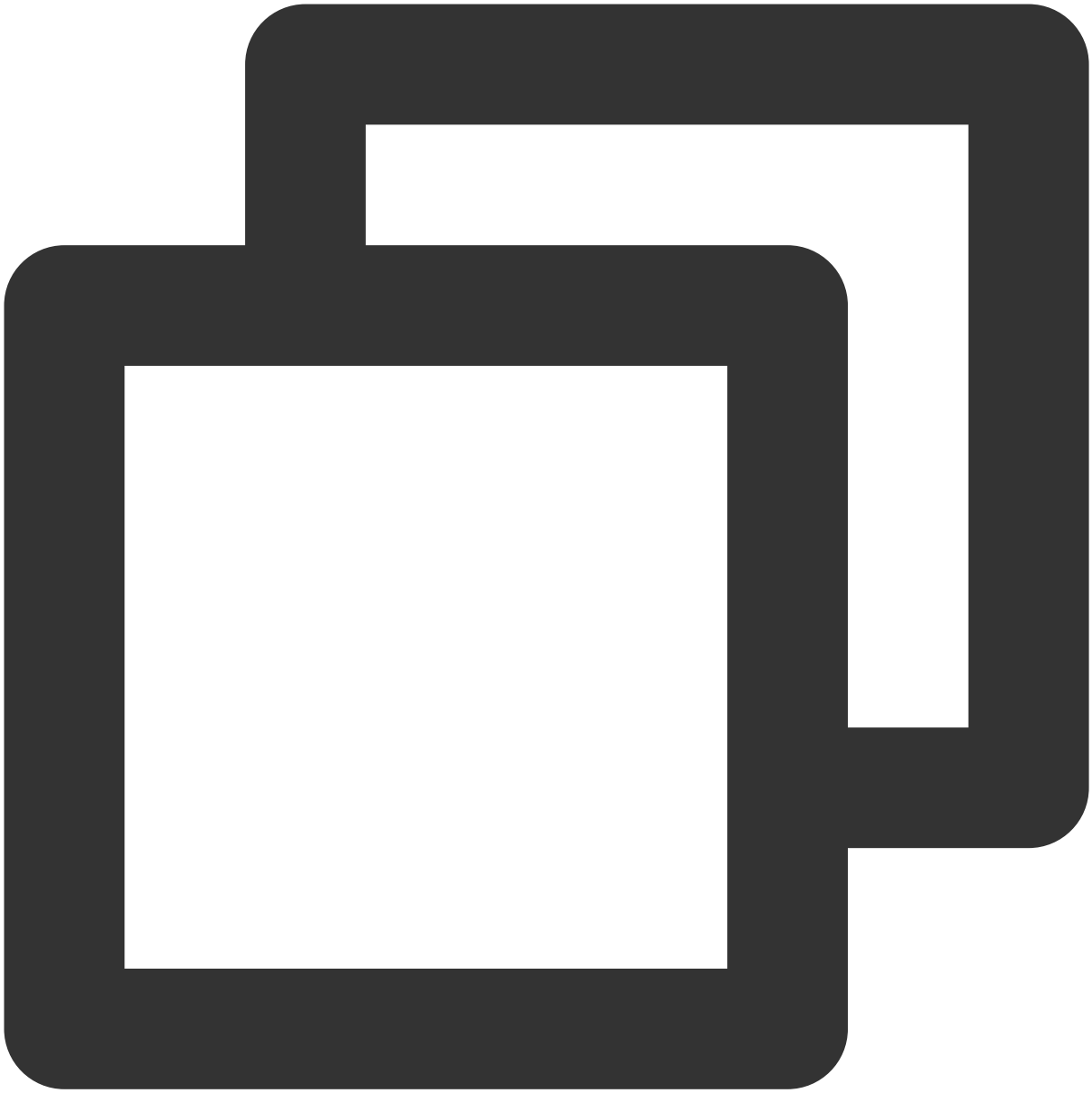
Response description

Success: The `FileProcessJobResponse` object response information is returned.

Failure: An error (such as the bucket does not exist) occurs, reporting the `CosClientException` or `CosServiceException` exception. For more information, see Troubleshooting.

Sample request

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```
//1. Create a job request object
FileProcessRequest request = new FileProcessRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("demo-1234567890");
request.setTag(FileProcessJobType.FileHashCode);
request.getInput().setObject("input/1.mp4");
FileHashCodeConfig fileHashCodeConfig = request.getOperation().getFileHashCodeConfi
fileHashCodeConfig.setType("MD5");
fileHashCodeConfig.setAddToHeader("true");
request.setQueueId("p1ff062b35a494cf0ac4b572df22a****");
//3. Call the API to get the job response object
```

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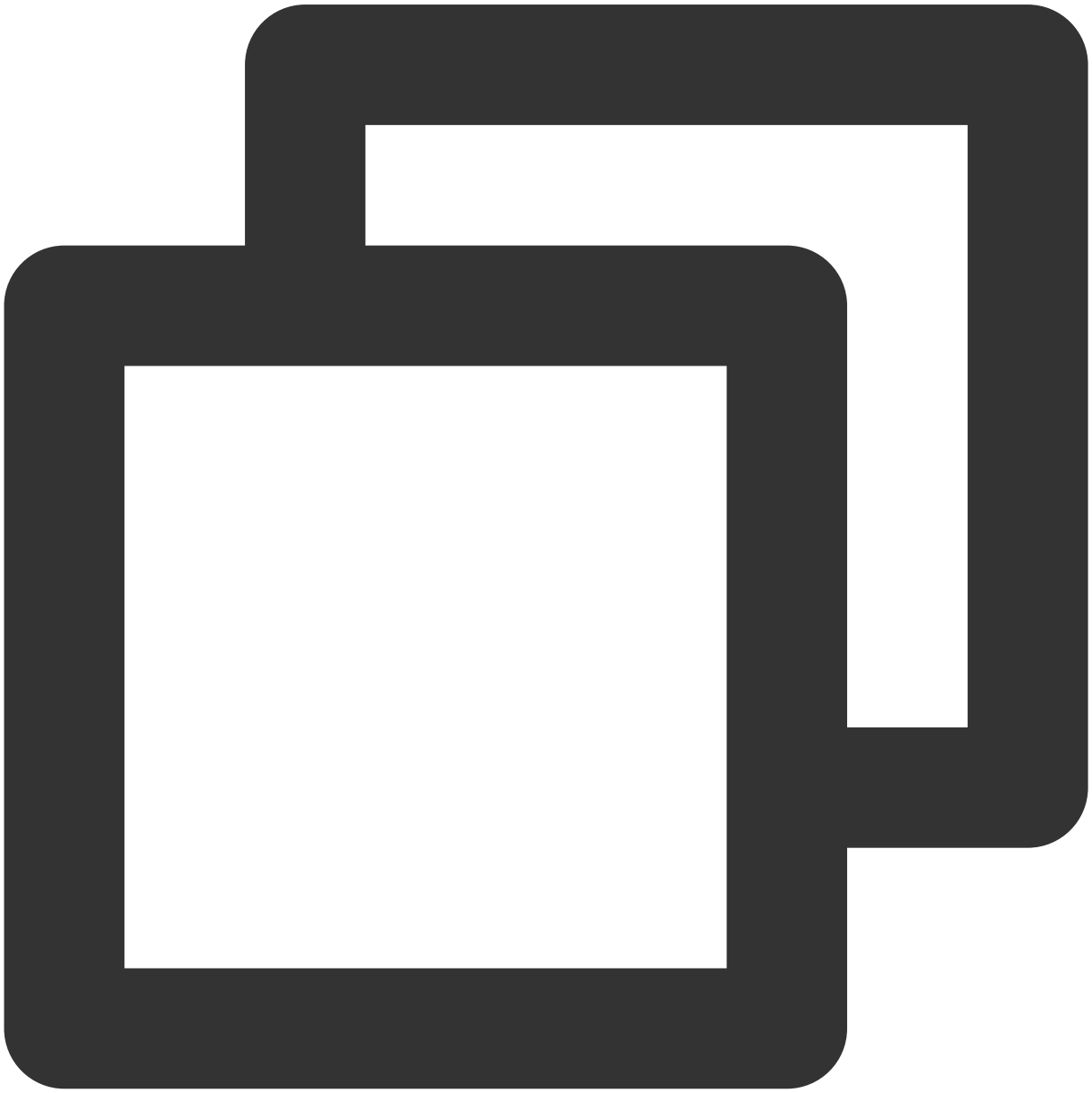
```
FileProcessJobResponse response = client.createFileProcessJob(request);
```

Querying Hash Calculation Result

Feature description

This API is used to query the details of a file processing job by job ID.

Method prototype



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```
public FileProcessJobResponse describeFileProcessJob(FileProcessRequest request);
```

Parameter description

Parameter	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
jobId	ID of the job to be queried.	String	Yes

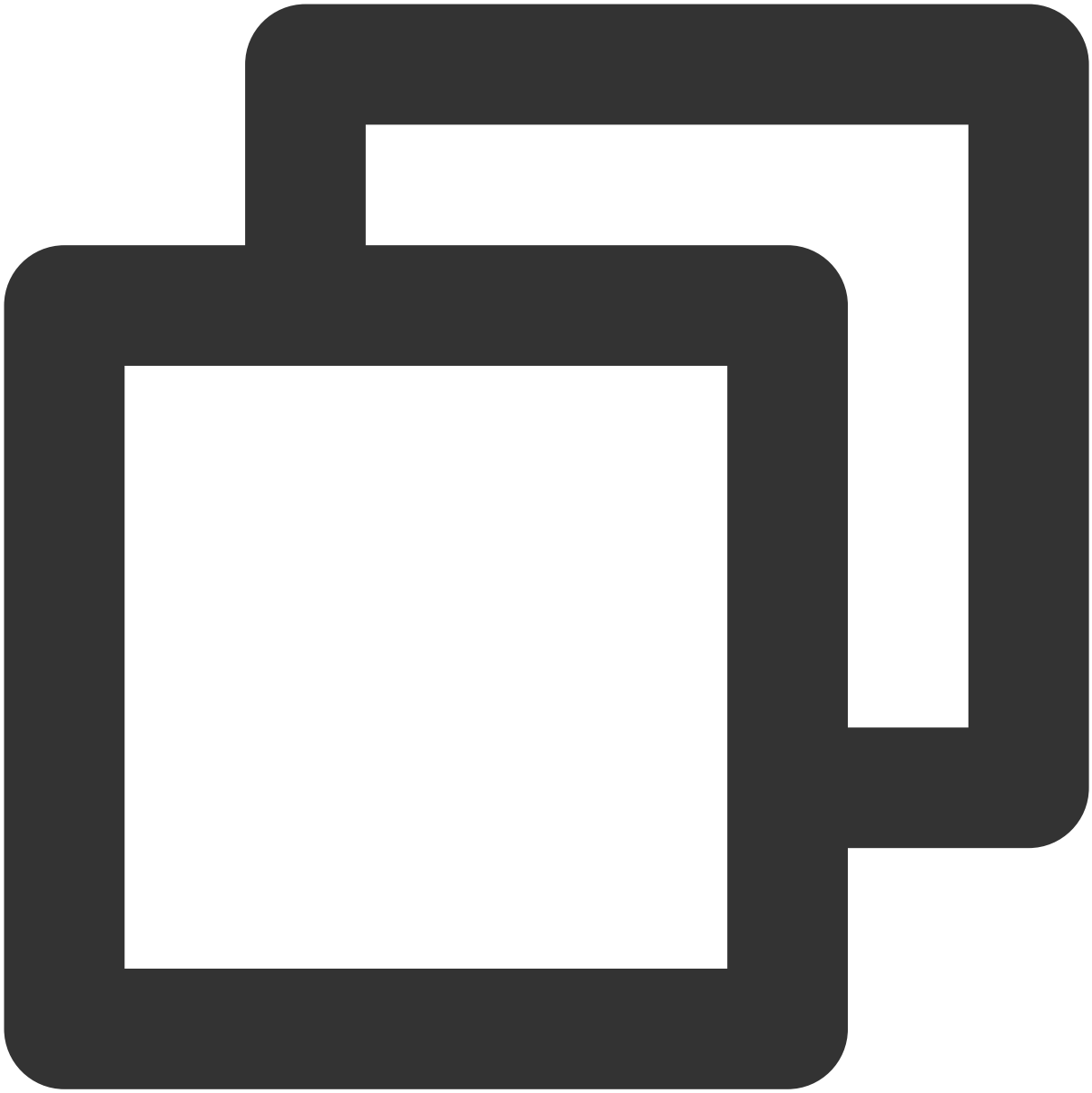
Response description

Success: A job details response wrapper class is returned, which contains the job details object `FileProcessJobResponse`.

Failure: If an error (such as authentication failure) occurs, the `CosClientException` or `CosServiceException` exception will be reported. For more information, see Troubleshooting.

Sample request

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```
//1. Create a job request object
FileProcessRequest request = new FileProcessRequest();
//2. Add request parameters as detailed in the API documentation
request.setBucketName("demo-1234567890");
request.setJobId("fda7eb1607b8411ed8c182156726*****");
//3. Call the API to get the job response object
FileProcessJobResponse response = client.describeFileProcessJob(request);
```

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JavaScript SDK
Getting Started

Last updated：2024-03-01 10:49:05

Download and Installation

Relevant resources

Source code of COS XML JS SDK download: XML JavaScript SDK.
SDK download: XML JavaScript SDK.
Demo download: JS Sample.
For the complete sample code, see SDK Sample Code.
For the SDK changelog, see Changelog.
For SDK FAQs, see JavaScript SDK FAQs.

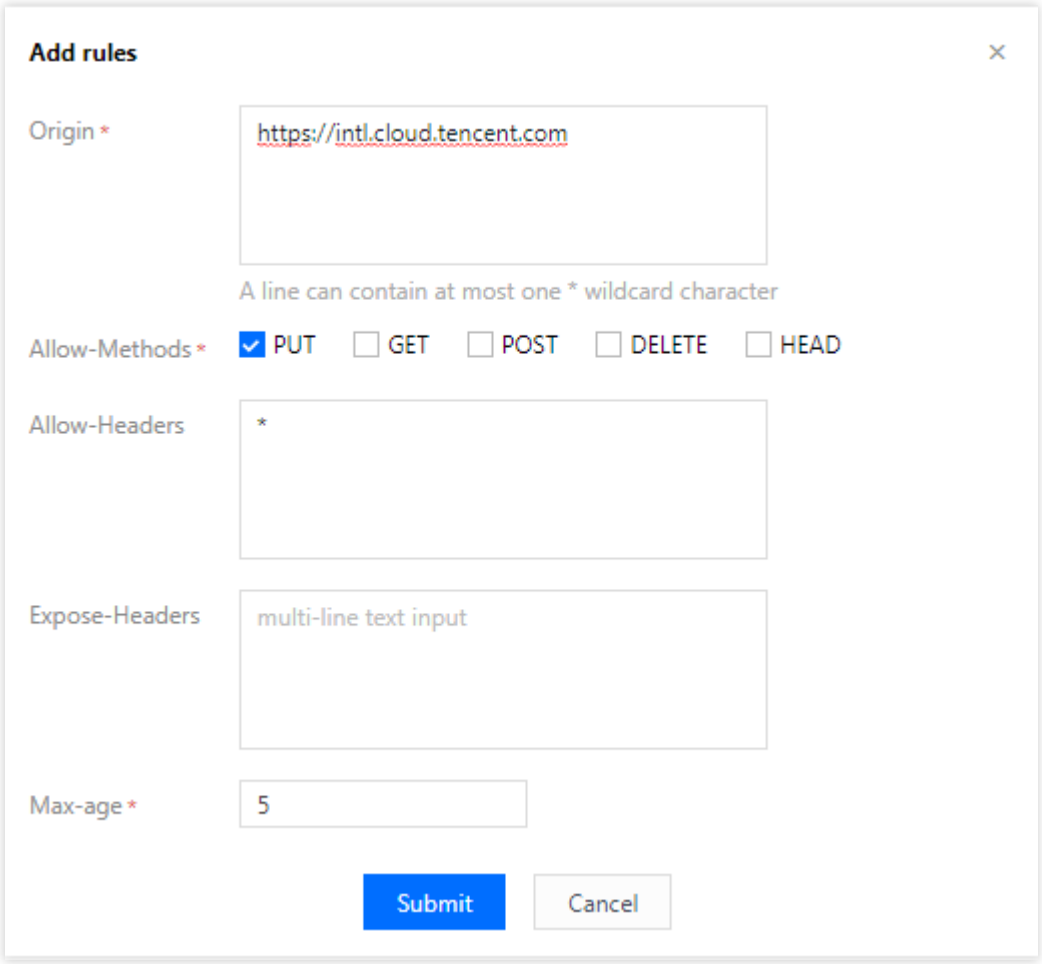
Note:

If you encounter errors such as non-existent functions or methods when using the XML version of the SDK, please update the SDK to the latest version and try again.

Environment requirements

1. The SDK for JavaScript requires the browser to support basic HTML5 features (IE 10 and higher) for AJAX file uploading and MD5 checksum calculation.
2. Log in to the COS console, create a bucket, and get the bucket name and region name.
3. Log in to the CAM console and get the SecretId and SecretKey of your project.
4. Configure CORS rule. Put in `*` for `AllowHeader`. For `ExposeHeaders`, put in `ETag`, `Content-Length`, and the other header fields that JS needs to read as shown below. For more information, see Setting Cross-Origin Access.

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Note:

For the definition of parameters such as `SecretId`, `SecretKey`, and `Bucket`, see COS's Glossary.

If you are using cross platform framework such as uni-app, and encounter problems when packaging the app (such as iOS or Android app), use the iOS SDK or Android SDK.

Installing SDK

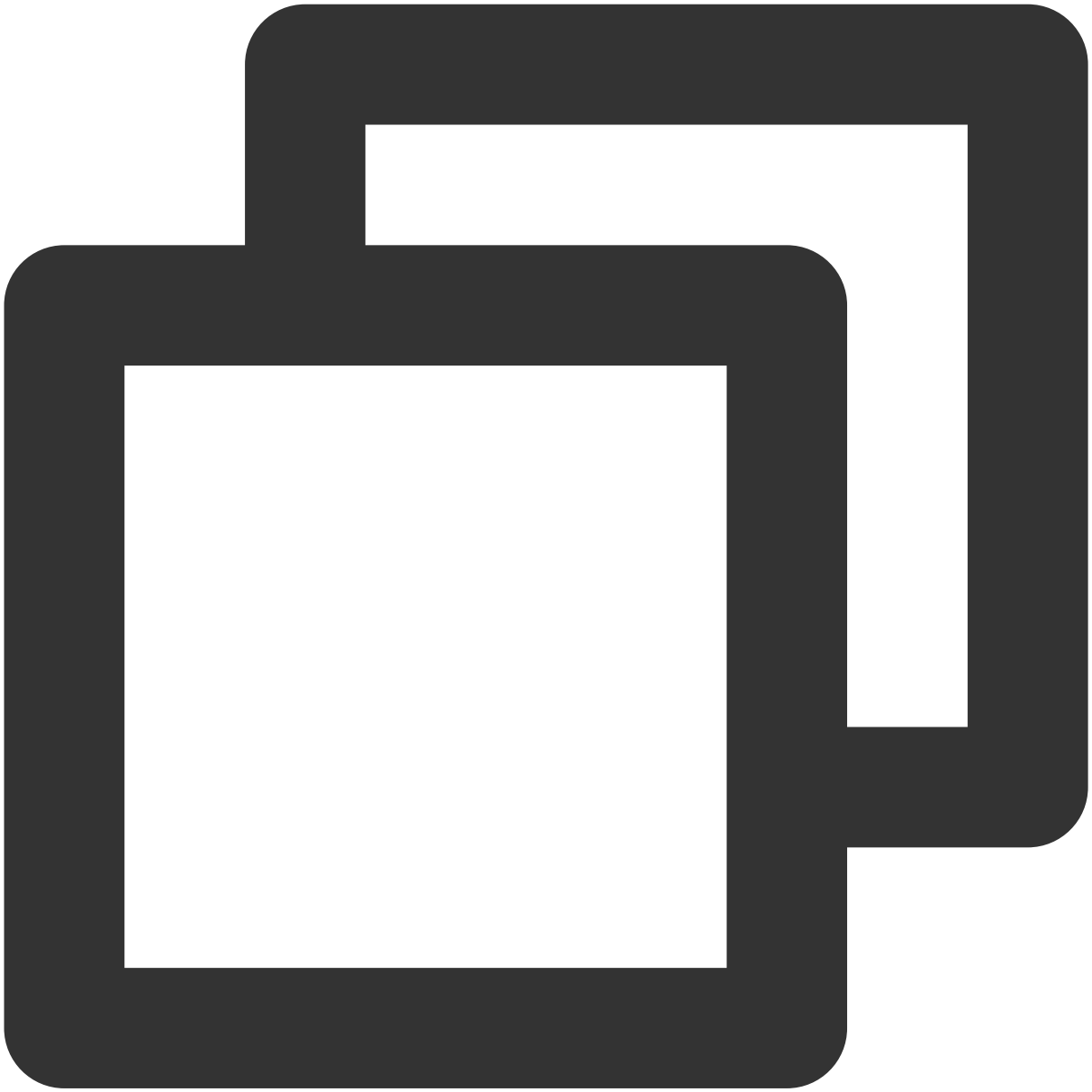
You can install the SDK in the following ways:

Importing via script

Note:

We recommend you download the SDK to local and then import it. You can download the latest SDK file "cos-js-sdk-v5.min.js" at URL 1 or URL 2.

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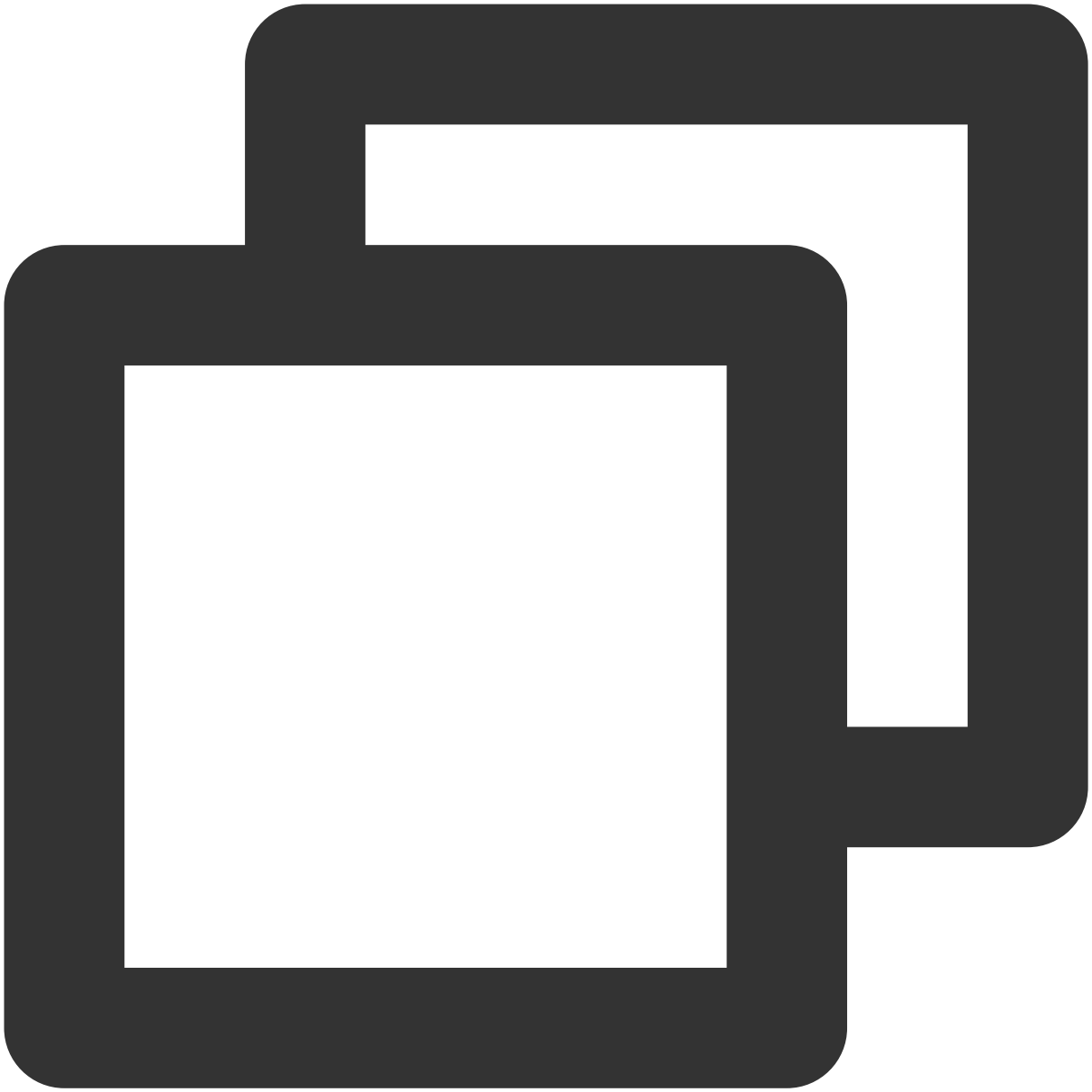
```
<!--src is a local path. Set it based on the directory structure of your project.--
<script src="../dist/cos-js-sdk-v5.min.js"></script>
```

When the script tag references the SDK, the SDK occupies the global variable name COS, and its constructor can create an SDK instance.

Importing via webpack

Install the SDK dependencies by running `npm i cos-js-sdk-v5 --save` , which supports webpack packaging scenarios. You can use npm import as a module with the following code:

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```
var COS = require('cos-js-sdk-v5');

// or

import COS from 'cos-js-sdk-v5';
```

Getting Started

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Note:

We recommend you use a temporary key as instructed in Generating and Using Temporary Keys to call the SDK for security purposes. When you apply for a temporary key, follow the Notes on Principle of Least Privilege to avoid leaking resources besides your buckets and objects.

If you must use a permanent key, we recommend you follow the Notes on Principle of Least Privilege to limit the scope of permission on the permanent key.

Getting a temporary key

As placing a permanent key on the frontend may cause security risks, we recommend you use temporary keys during formal deployment. The implementation process is as follows: the frontend first requests the server, and then the server uses the permanent key to call the STS service to apply for a temporary key (for more information, see Generating and Using Temporary Keys) and returns it to the frontend.

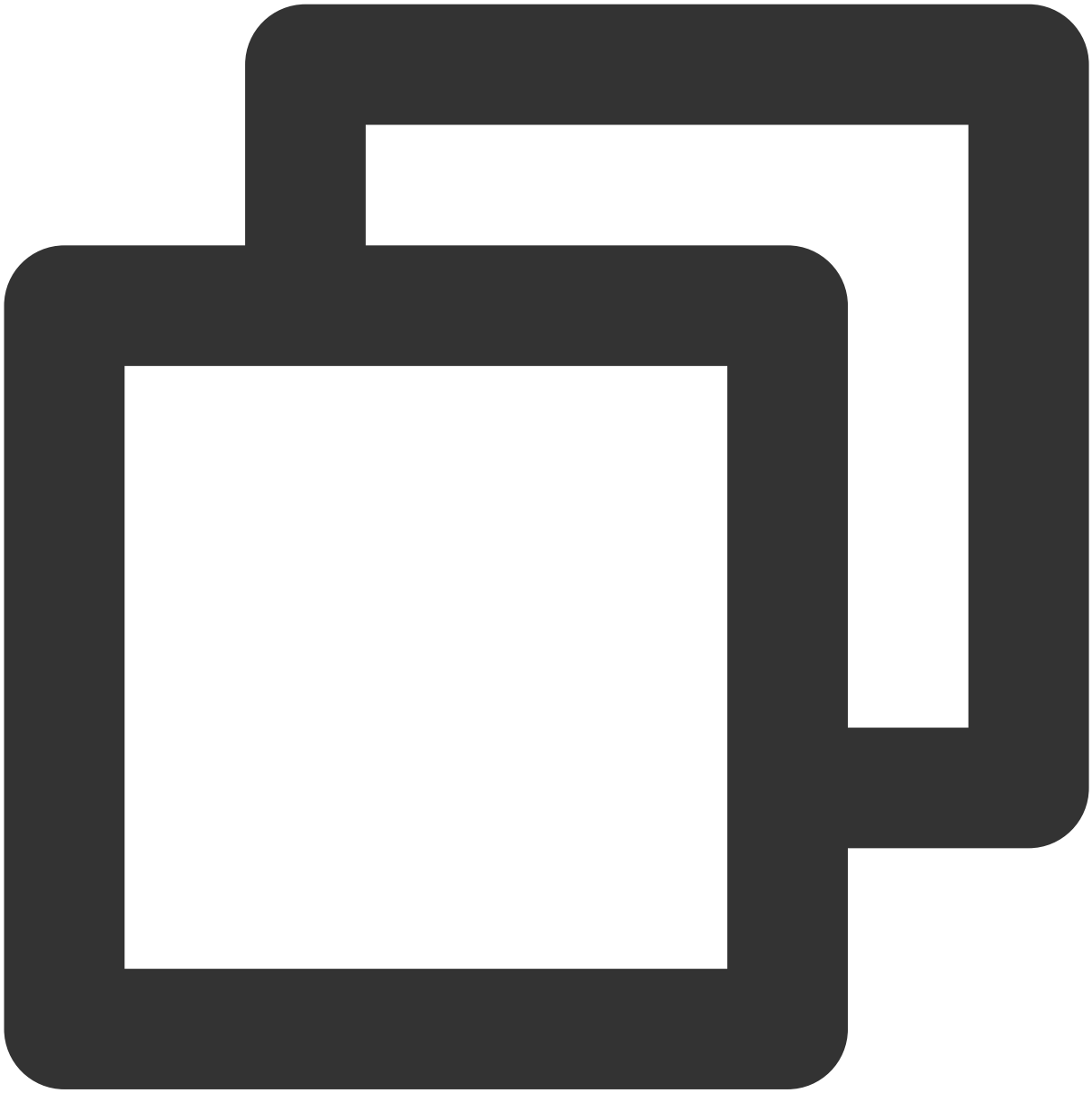
Note:

If the site has a login state, login state verification should be added to the temporary key getting API.

Initialization

1. Create a web.html file, enter the following code, and modify the bucket name and region in web.html.
2. Deploy the temporary key service on the backend and modify the key service address in getAuthorization.
3. Place the `web.html` file on the web server, visit the page in a browser, and test file uploading. The sample code for `web.html` is as follows:

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```
<input id="file-selector" type="file">
<script src="dist/cos-js-sdk-v5.min.js"></script>
<script>

// Bucket name in the format of `BucketName-APPID` (`APPID` is required), which can
var Bucket = 'examplebucket-1250000000';  /* Bucket. Required */

// The bucket region can be viewed in the COS console at https://console.intl.cloud
// The region details can be viewed at https://intl.cloud.tencent.com/document/prod
var Region = 'COS_REGION';      /* Bucket region. Required */
```

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```
// Initialize an instance.
var cos = new COS({
    // The `getAuthorization` parameter is required.
    getAuthorization: function (options, callback) {
        // It will not be called during initialization and will be entered only whe
        // Get a temporary key asynchronously.
        // Server-side JS and PHP sample: https://github.com/tencentyun/cos-js-sdk-
        // For server-side examples for other programming languages, see the COS SD
        // For the STS documentation, visit https://intl.cloud.tencent.com/document

        var url = 'http://example.com/server/sts.php'; // Replace the URL with your
        var xhr = new XMLHttpRequest();
        xhr.open('GET', url, true);
        xhr.onload = function (e) {
            try {
                var data = JSON.parse(e.target.responseText);
                var credentials = data.credentials;
            } catch (e) {
            }
            if (!data || !credentials) {
              return console.error('credentials invalid:\\n' + JSON.stringify(data,
            };
            callback({
              TmpSecretId: credentials.tmpSecretId,
              TmpSecretKey: credentials.tmpSecretKey,
              SecurityToken: credentials.sessionToken,
              // We recommend that you use the server time as the signature start t
              StartTime: data.startTime, // Timestamp in seconds, such as 158000000
              ExpiredTime: data.expiredTime, // Timestamp in seconds, such as 15800
          });
        };
        xhr.send();
    }
});

// The COS instance can then be used to call a COS request.

</script>
```

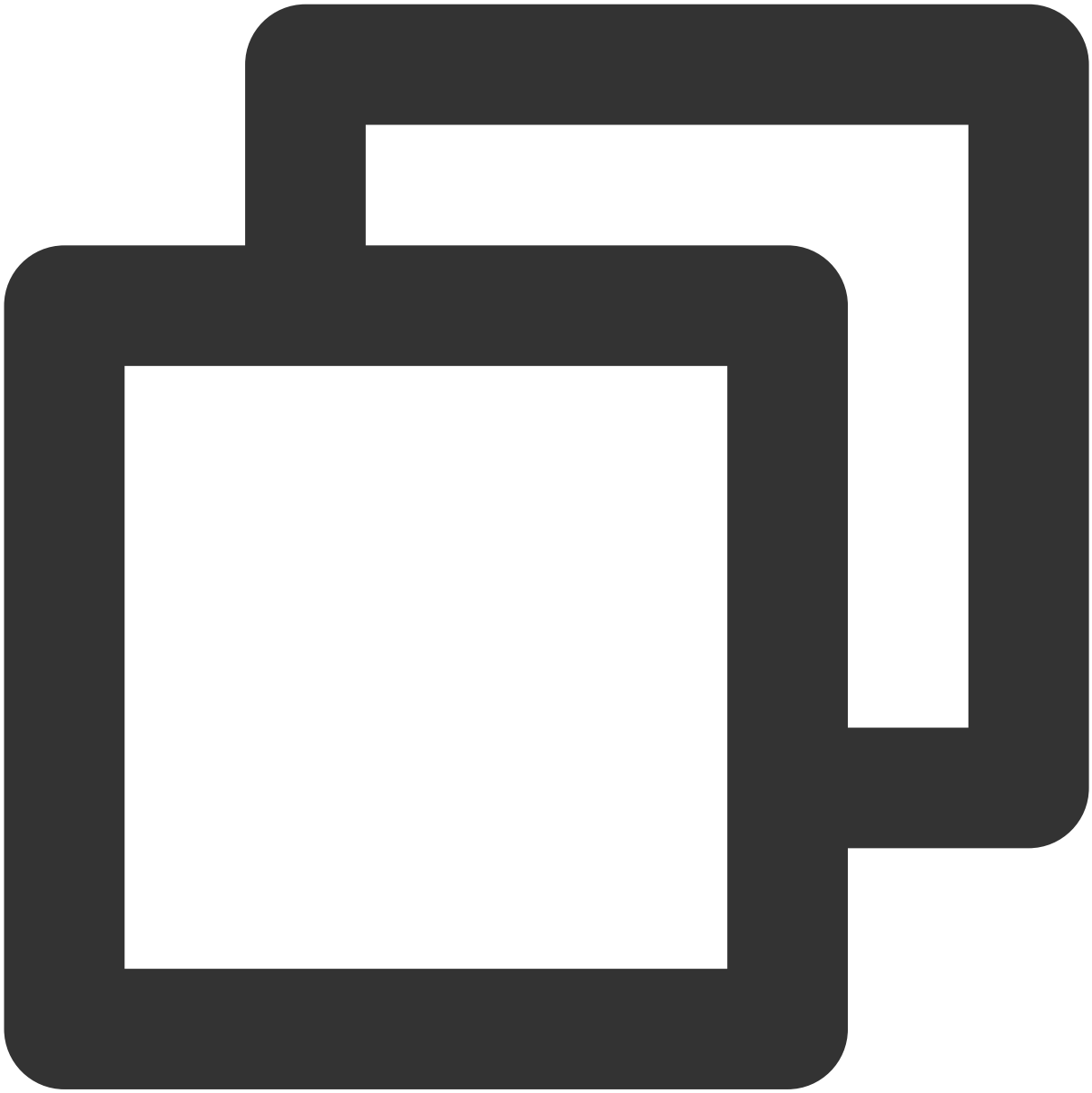
Configuration item

Sample code

Create a COS SDK instance in one of the following ways:

Method 1 (recommended): The backend gets a temporary key and sends it to the frontend for signature calculation.

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```
var COS = require('cos-js-sdk-v5');
var cos = new COS({
    // The `getAuthorization` parameter is required.
    getAuthorization: function (options, callback) {
        // Get a temporary key asynchronously.
        // Server-side JS and PHP sample: https://github.com/tencentyun/cos-js-sdk-
        // For server-side examples for other programming languages, see the COS SD
        // For the STS documentation, visit https://intl.cloud.tencent.com/document

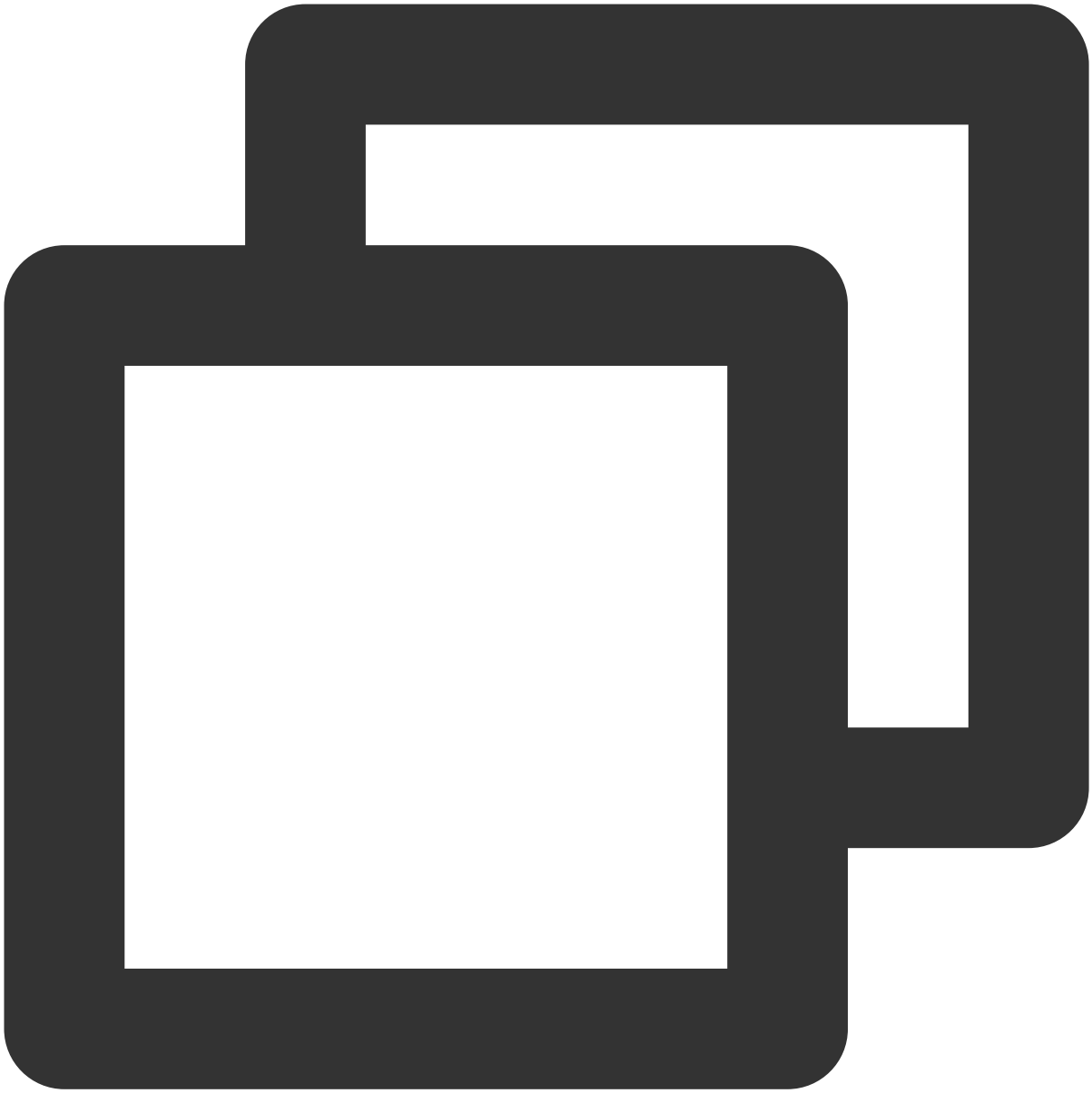
        var url = 'http://example.com/server/sts.php'; // Replace the URL with your
        var xhr = new XMLHttpRequest();
```

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```
        xhr.open('GET', url, true);
        xhr.onload = function (e) {
            try {
                var data = JSON.parse(e.target.responseText);
                var credentials = data.credentials;
            } catch (e) {
            }
            if (!data || !credentials) {
              return console.error('credentials invalid:\\n' + JSON.stringify(data,
            };
            callback({
              TmpSecretId: credentials.tmpSecretId,
              TmpSecretKey: credentials.tmpSecretKey,
              SecurityToken: credentials.sessionToken,
              // We recommend that you use the server time as the signature start t
              StartTime: data.startTime, // Timestamp in seconds, such as 158000000
              ExpiredTime: data.expiredTime, // Timestamp in seconds, such as 15800
          });
        };
        xhr.send();
    }
});
```

Method 2 (recommended). Permissions are controlled in a more refined manner. The backend gets a temporary key and sends it to the frontend. The frontend reuses the key only for the same request, and the backend can granularly manage permissions through Scope.

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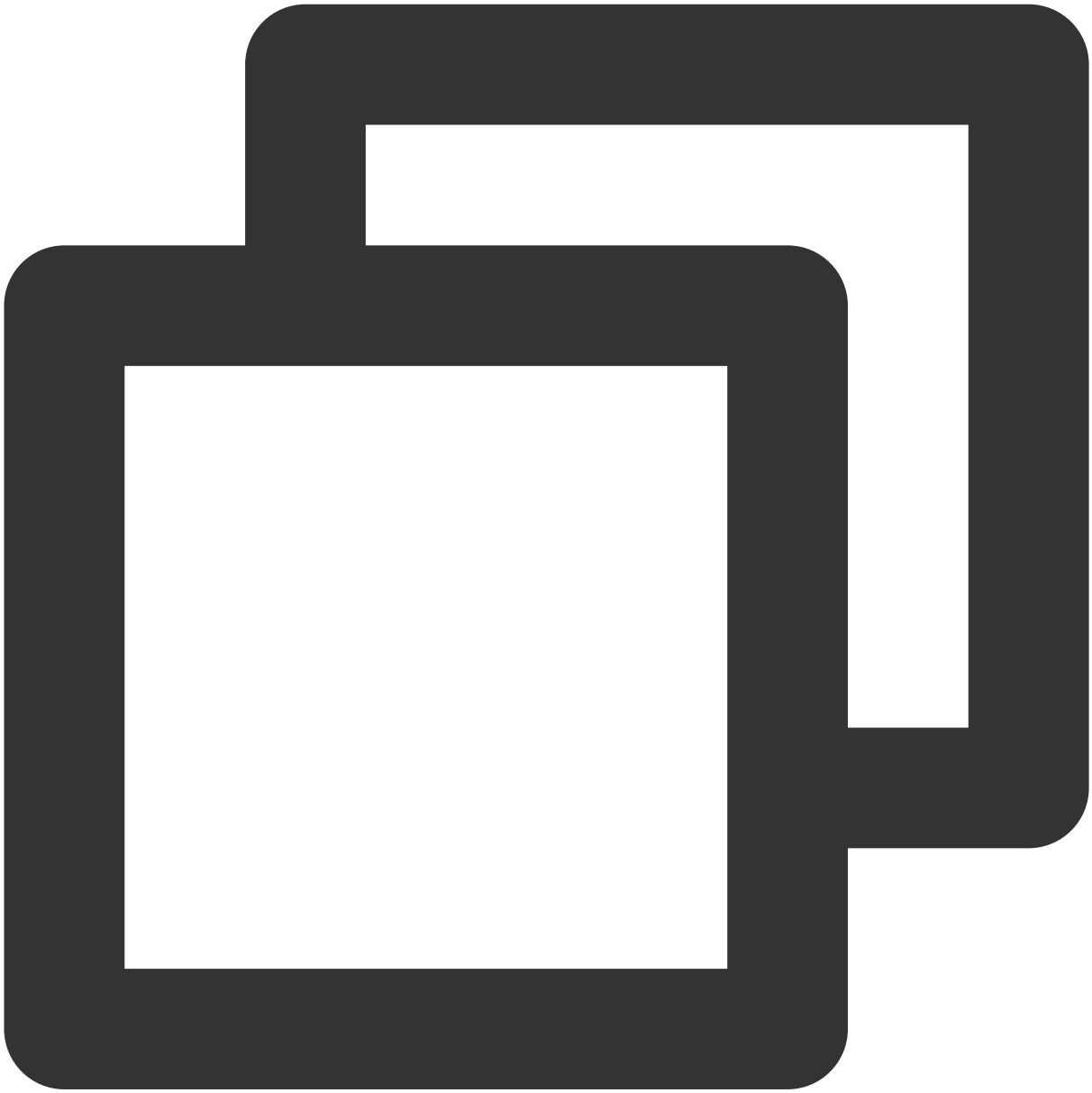
```
var COS = require('cos-js-sdk-v5');
var cos = new COS({
    // The `getAuthorization` parameter is required.
    getAuthorization: function (options, callback) {
        // Server example: https://github.com/tencentyun/qcloud-cos-sts-sdk/blob/ma
        // Get a temporary key asynchronously.
        var url = 'http://example.com/server/sts.php'; // Replace the URL with your
        var xhr = new XMLHttpRequest();
        xhr.open('POST', url, true);
        xhr.setRequestHeader('Content-Type', 'application/json');
        xhr.onload = function (e) {
```

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```
            try {
                var data = JSON.parse(e.target.responseText);
                var credentials = data.credentials;
            } catch (e) {
            }
            if (!data || !credentials) {
                return console.error('credentials invalid:\\n' + JSON.stringify(dat
            };
            callback({
                TmpSecretId: credentials.tmpSecretId,
                TmpSecretKey: credentials.tmpSecretKey,
                SecurityToken: credentials.sessionToken,
                // We recommend that you use the server time as the signature start
                StartTime: data.startTime, // Timestamp in seconds, such as 1580000
                ExpiredTime: data.expiredTime, // Timestamp in seconds, such as 158
                ScopeLimit: true, // Refined permission control needs to be set to
            });
        };
        xhr.send(JSON.stringify(options.Scope));
    }
});
```

Method 3 (not recommended): The frontend needs to get a signature through `getAuthorization` before each request, and the backend uses a permanent or temporary key to calculate the signature and returns it to the frontend. This method makes it difficult to control permissions for multipart upload and thus is not recommended.

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```
var COS = require('cos-js-sdk-v5');
var cos = new COS({
    // The `getAuthorization` parameter is required.
    getAuthorization: function (options, callback) {
        // Obtain the signature asynchronously.

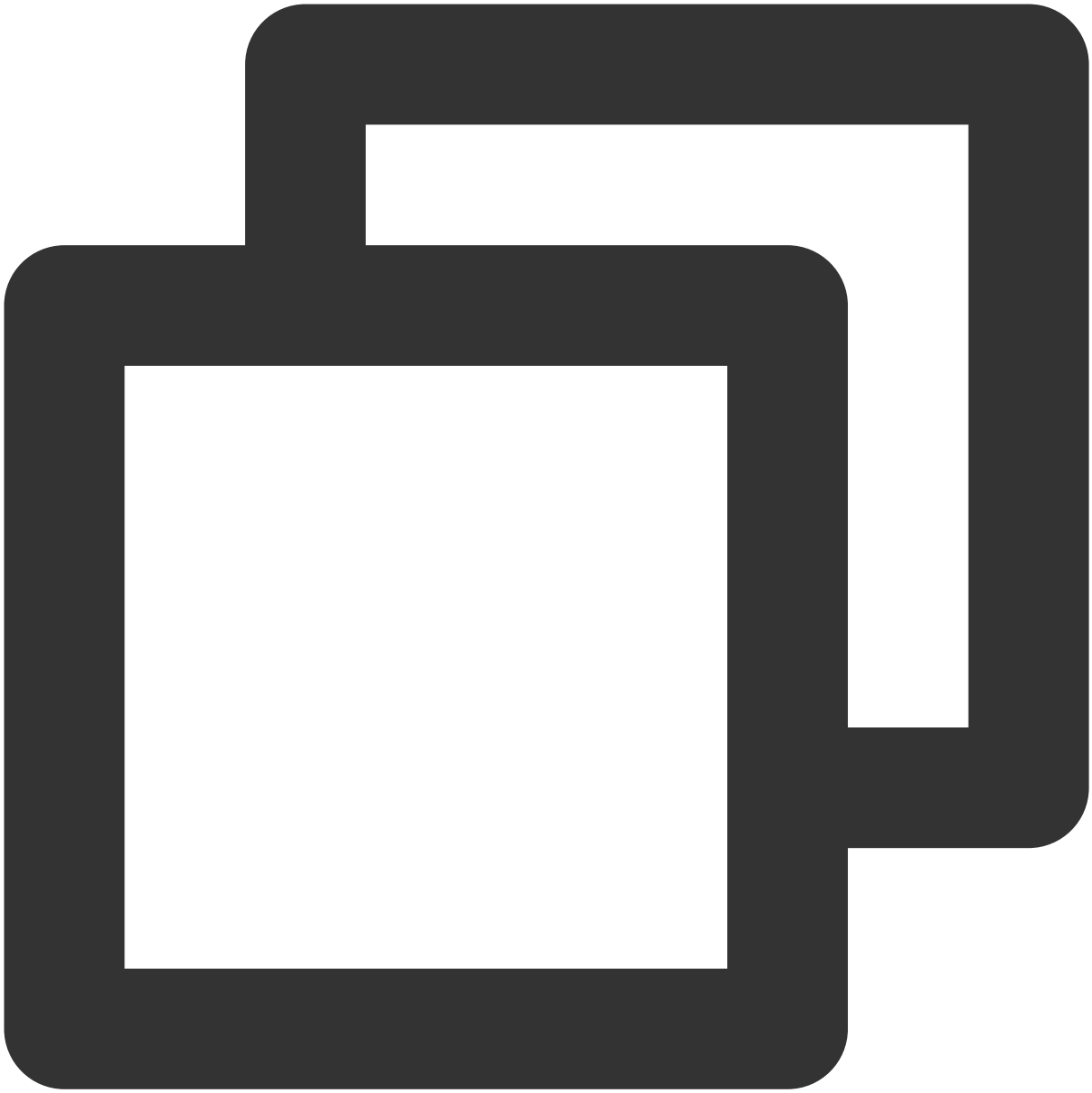
        var url = 'http://example.com/server/sts.php'; // Replace the URL with your
        var method = (options.Method || 'get').toLowerCase();
        var query = options.Query || {};
        var headers = options.Headers || {};
        var pathname = options.Pathname || '/';
```

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```
        var xhr = new XMLHttpRequest();
        var data = {
            method: method,
            pathname: pathname,
            query: query,
            headers: headers,
        };
        xhr.open('POST', url, true);
        xhr.setRequestHeader('content-type', 'application/json');
        xhr.onload = function (e) {
            try {
                var data = JSON.parse(e.target.responseText);
            } catch (e) {
            }
            if (!data || !data.authorization) return console.error('authorization i
            callback({
                Authorization: data.authorization,
                // SecurityToken: data.sessionToken, // If a temporary key is used,
            });
        };
        xhr.send(JSON.stringify(data));
    },
});
```

Method 4 (not recommended): The frontend uses a permanent key to calculate the signature. This method can be used for frontend debugging. If you use this method, be sure to avoid key disclosure.

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```
var COS = require('cos-js-sdk-v5');

// Log in to https://console.intl.cloud.tencent.com/cam/capi to check and manage th
var cos = new COS({
    SecretId: 'SECRETID',
    SecretKey: 'SECRETKEY',
});
```

Constructor parameters

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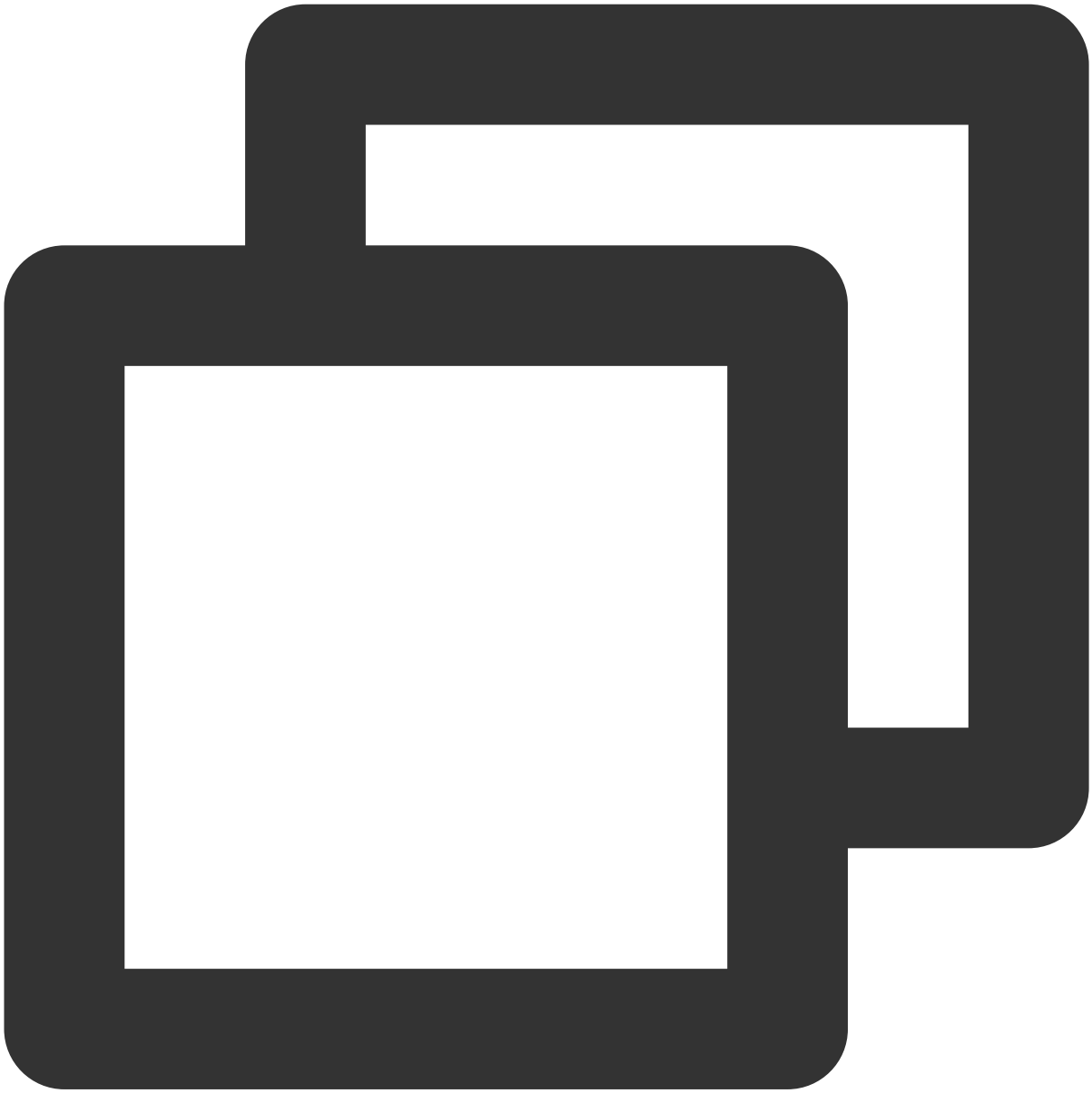
Parameter	Description	Type	Required
SecretId	User SecretId	String	No
SecretKey	User's `SecretKey`, which we recommend to be used only for frontend debugging and should not be disclosed	String	No
FileParallelLimit	Number of concurrent file uploads in the same instance. Default value: 3	Number	No
ChunkParallelLimit	Number of concurrent part uploads for the same uploaded file. Default value: 3	Number	No
ChunkRetryTimes	Number of retries for multipart upload failure. Default value: 2 (a request will be made 3 time in total, including the initial one)	Number	No
ChunkSize	Part size in the multipart upload in bytes. Default value: 1048576 (1 MB)	Number	No
SliceSize	When files are uploaded in batches using `uploadFiles`, if the file size is greater than the value of this parameter (measured in bytes), multipart upload is used; otherwise, simple upload is used. Default value: 1048576 (1 MB)	Number	No
CopyChunkParallelLimit	Number of concurrent part uploads for the same multipart copy operation. Default value: 20	Number	No
CopyChunkSize	Number of bytes in each part during a multipart copy operation with `sliceCopyFile`. Default value: 10485760 (10 MB)	Number	No
CopySliceSize	When a file is copied by using `sliceCopyFile`, if the file size is greater than the value of this parameter, multipart copy is used; otherwise, simple copy is used. Default value: 10485760 (10 MB)	Number	No
ProgressInterval	Callback frequency of the upload progress callback method `onProgress` in milliseconds. Default value: 1000	Number	No
Protocol	The protocol used when the request is made. Valid values: `https:`, `http:`. By default, `http:` is used when the current page is determined to be in `http:` format; otherwise, `https:` is used	String	No

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Domain	The custom request domain name used to call a bucket or object API. You can use a template, such as `"{Bucket}.cos.{Region}.myqcloud.com"` which will use the bucket and region passed in the replacement parameters when an API is called.	String	No
UploadQueueSize	The maximum size of the upload queue. Excess tasks will be cleared if their status is not waiting, checking, or uploading. Default value: 10000	Number	No
ForcePathStyle	Forces the use of a suffix when sending requests. The suffixed bucket will be placed in the pathname after the domain name, and the bucket will be added to the signature pathname for calculation. Default value: false	Boolean	No
UploadCheckContentMd5	Verifies Content-MD5 when uploading files, which is false by default. If it is enabled, the MD5 value of the uploading files will be calculated, which may be time-consuming for large files	Boolean	No
getAuthorization	Callback method for getting the signature. If there is no `SecretId` or `SecretKey`, this parameter is required. **Note: This callback method is passed in during instance initialization, and is only executed to obtain the signature when the instance calls APIs.**	Function	No
Timeout	Timeout period in milliseconds. Default value: 0, indicating no timeout period.	Number	No
UseAccelerate	Whether to enable a global acceleration endpoint. Default value: `false`. If you set the value to `true`, you need to enable global acceleration for the bucket. For more information, see Enabling Global Acceleration.	Boolean	No

getAuthorization Callback function description (Format 1)

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```
getAuthorization: function(options, callback) { ... }
```

getAuthorization callback parameter descriptions:

Parameter	Description	Type
options	Required for getting the signature	Object
- Bucket	Bucket name in the format `BucketName-APPID`. The bucket name entered here must be in this format	String

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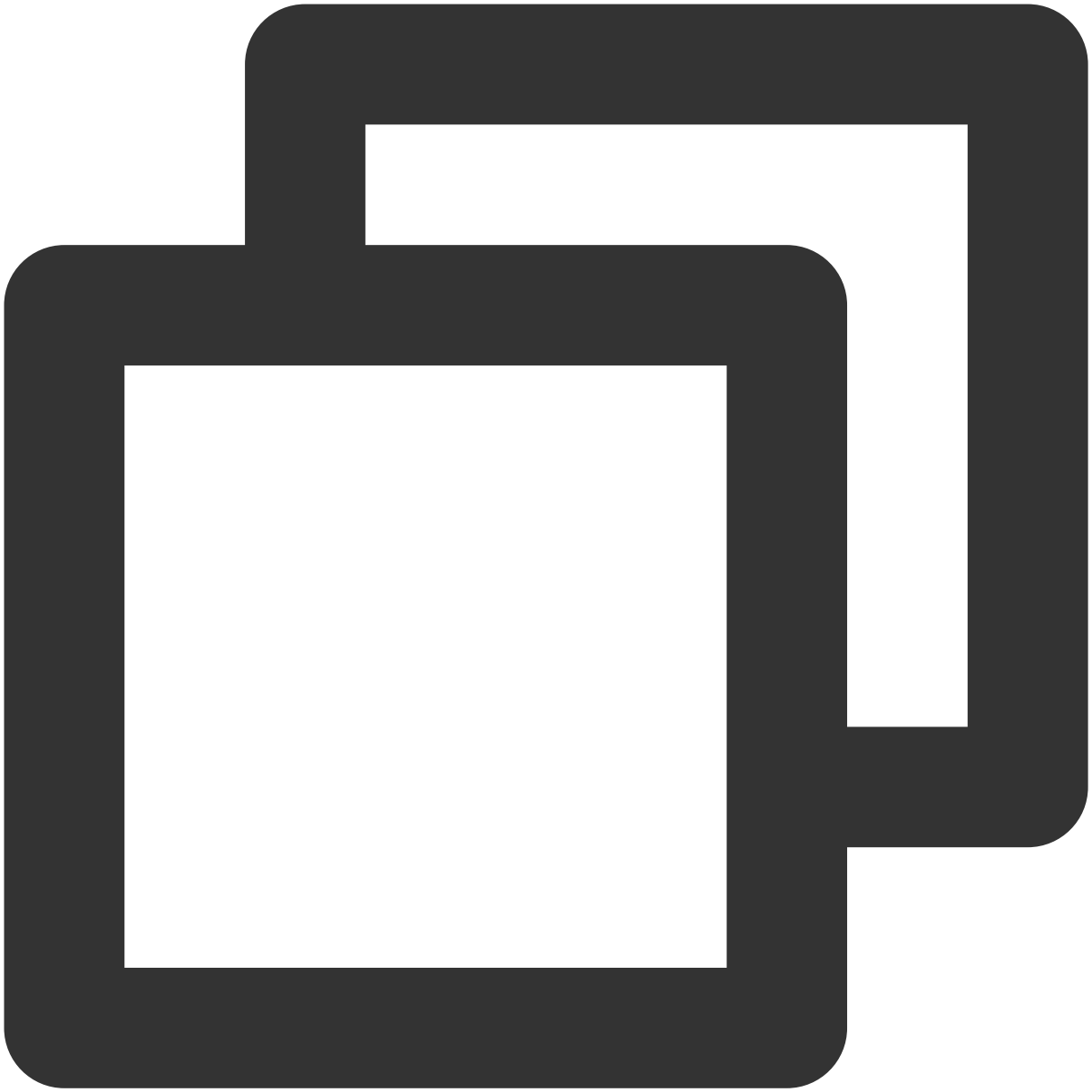
Region	Bucket region. For the enumerated values, see bucket regions.	String
callback	Callback method after the temporary key is obtained	Function

After the temporary key is obtained, the callback returns an object. The attributes of the returned object are as listed below:

Attribute	Description	Type	Required
TmpSecretId	`tmpSecretId` of the obtained temporary key	String	Yes
TmpSecretKey	`tmpSecretKey` of the obtained temporary key	String	Yes
SecurityToken	sessionToken of the obtained temporary key, which corresponds to the `x-cos-security-token` field in the header	String	Yes
StartTime	The timestamp in seconds of when you obtained the key, such as `1580000000`. Passing in this parameter as the signature start time can avoid signature expiration issues due to time deviation on the frontend.	String	No
ExpiredTime	`expiredTime` of the obtained temporary key measured in seconds, i.e., the timeout timestamp, such as 1580000900	String	Yes

getAuthorization Callback function description (Format 2)

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```
getAuthorization: function(options, callback) { ... }
```

getAuthorization function callback parameter descriptions:

Parameter	Description	Type
options	Parameter object for getting the signature	Object
- Method	Method of the current request	String
- Pathname	Request path used for signature calculation	String

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- Key	An object key (object name), the unique identifier of an object in a bucket. For more information, see Object Overview. **Note: This parameter is empty if the API that uses the instance is not an object-operation API.**	String
- Query	Query parameter in the current request. Format: {key: 'val'}	Object
- Headers	Headers in the current request. Format: {key: 'val'}	Object
callback	Callback after the temporary key is obtained	Function

Once the getAuthorization callback function is finished, it returns one of the following:
An Authorization string.
An object whose attributes are listed as follows:

Attribute	Description	Type	Required
Authorization	Calculated signature string	String	Yes
SecurityToken	`sessionToken` of the obtained temporary key, which corresponds to the `x-cos-security-token` field in the header	String	No

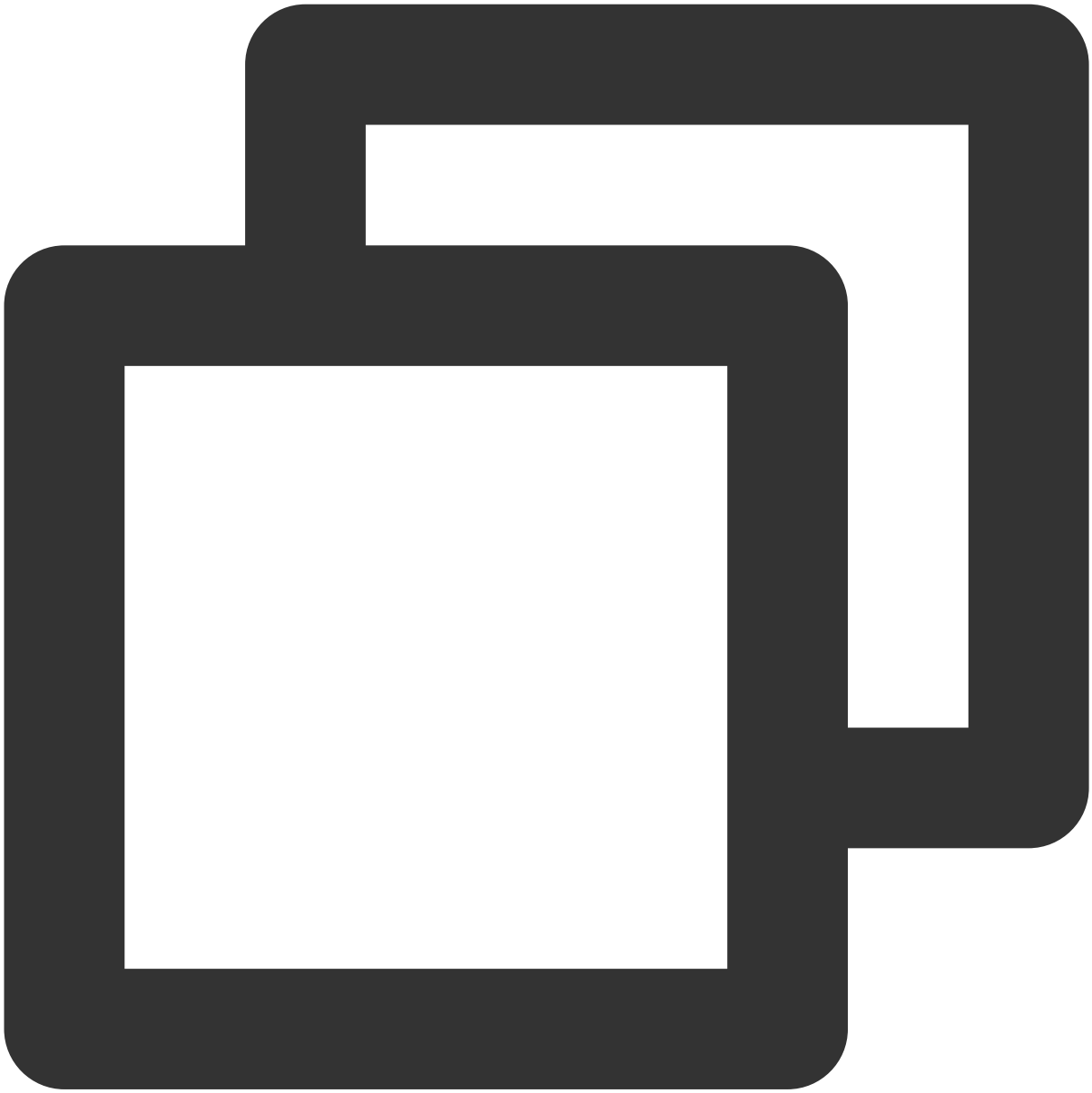
Getting an authentication credential

There are three ways to get the authentication credentials for your instance by passing in different parameters during instantiation:
1. During instantiation, pass in your `SecretId` and `SecretKey`. Each time a signature is required, it will be internally calculated by the instance.
2. During instantiation, pass in the getAuthorization callback. Every time a signature is required, it will be calculated and returned to the instance through this callback.
3. During instantiation, pass in the getAuthorization callback. When the callback is called, a temporary key will be returned. After the key expires, the callback will be called again.

Enabling DataInsight

We have introduced the Tencent Beacon into the SDK to track down and optimize the SDK quality for a better user experience.
Note:
DataInsight only monitors the COS request performance and doesn't report any business data.
To enable this feature, make sure that the SDK version is 1.4.0 or later and specify `EnableTracker` as `true` during initialization.

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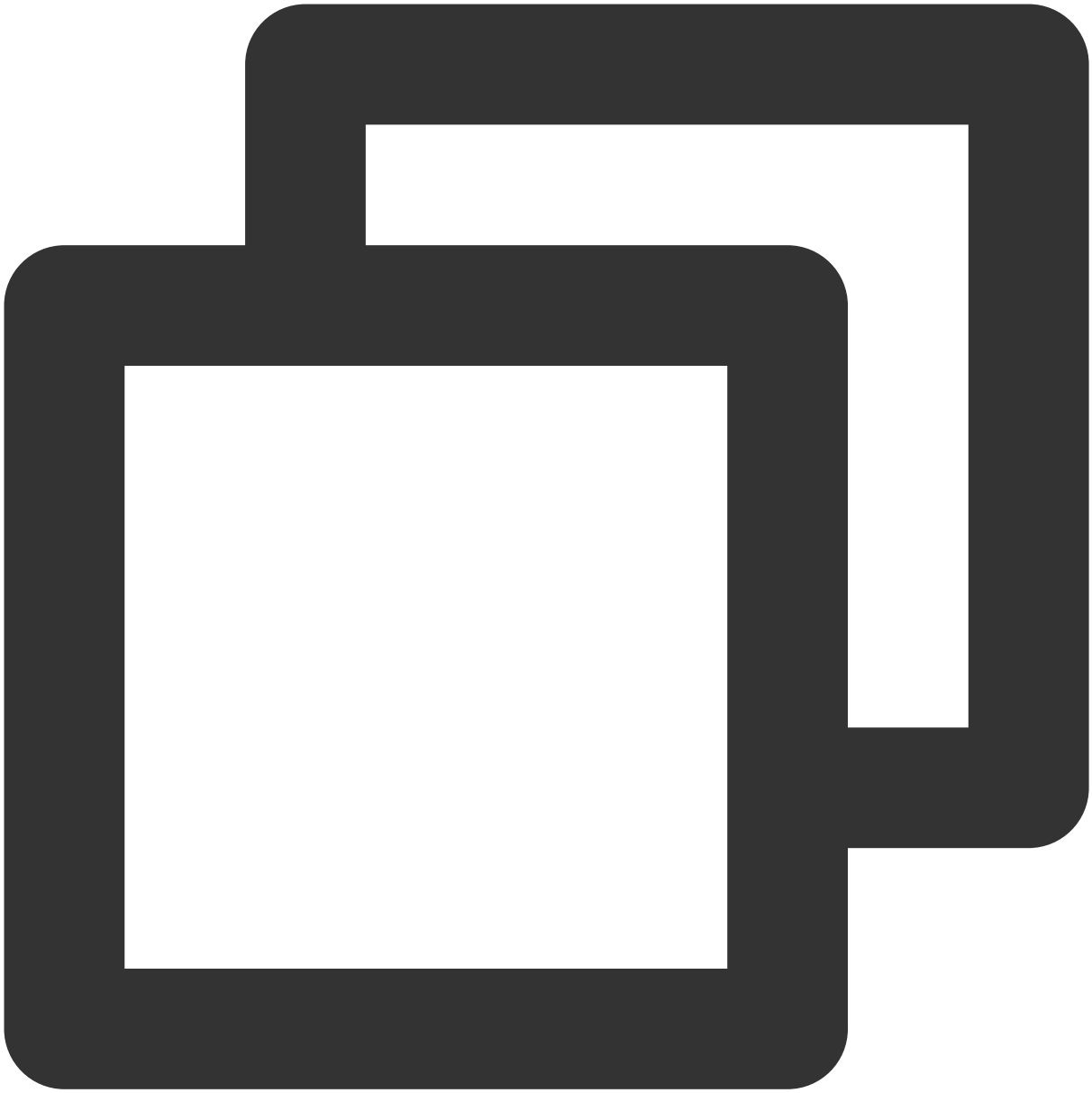
```
new COS({
  EnableTracker: true,
})
```

How to use

Callback method

The callback method is used by default in the documentation. Below is the sample code:

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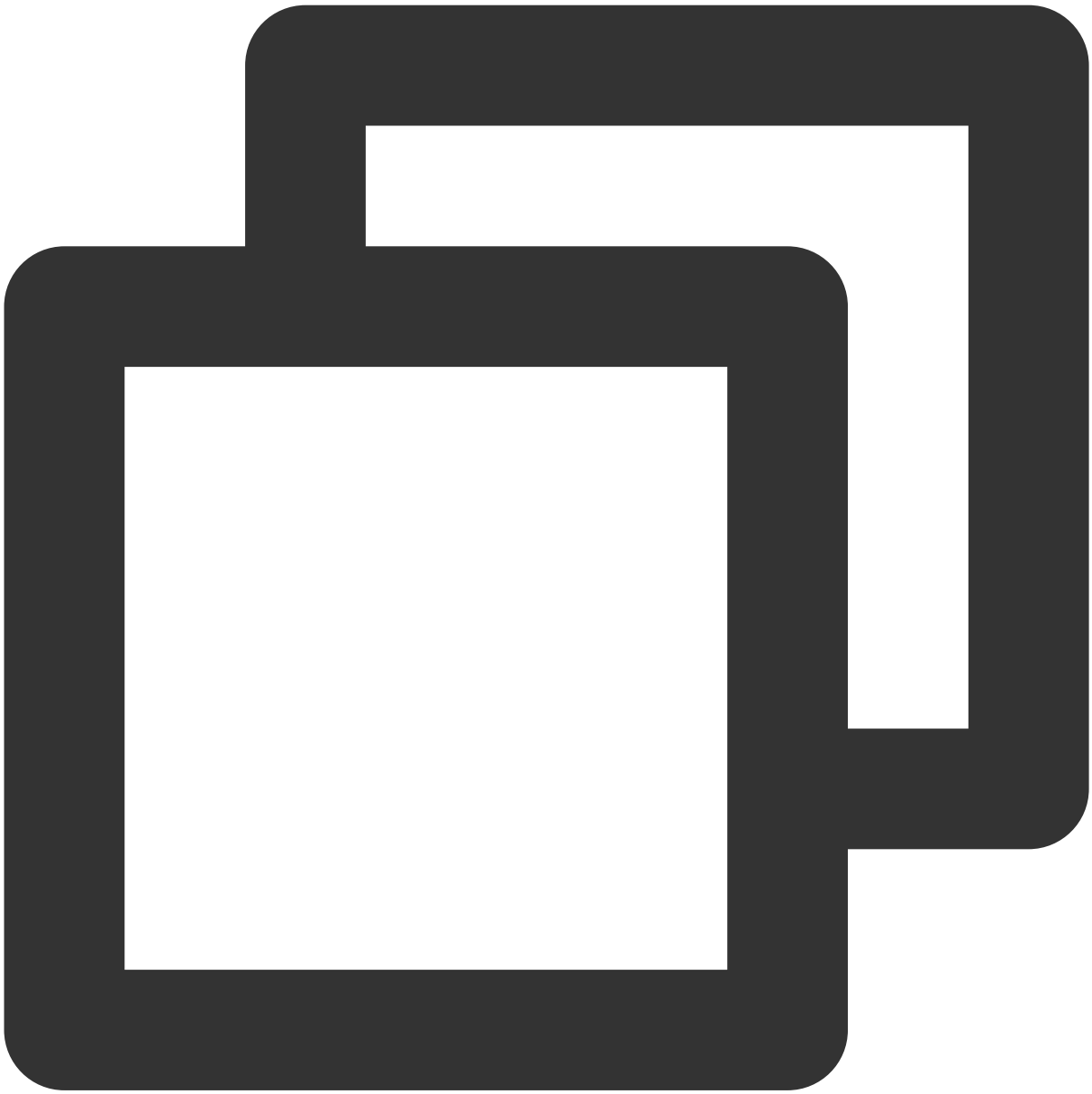


```
// The initialization process and upload parameters are omitted here.
var cos = new COS({ ... });
cos.uploadFile({ ... }, function(err, data) {
  if (err) {
    console.log('Upload failed', err);
  } else {
    console.log('Uploaded successfully', data);
  }
});
```

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Promise

The SDK also supports calling through the promise method. For example, the code of the callback method above is equivalent to the following code:

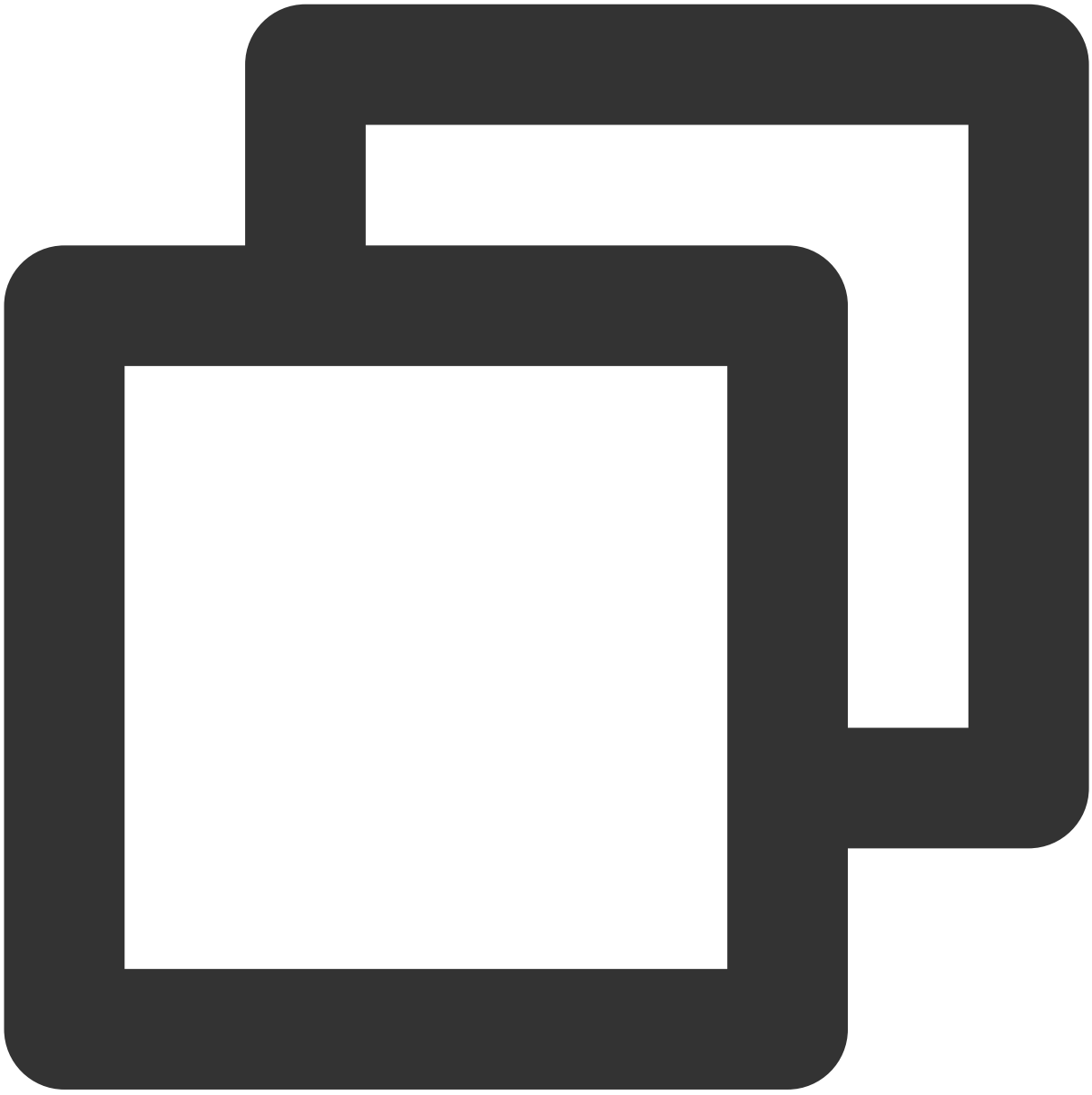


```
// The initialization process and upload parameters are omitted here.
var cos = new COS({ ... });
cos.uploadFile({ ... }).then(data => {
  console.log('Uploaded successfully', data);
}).catch(err => {
  console.log('Upload failed', err);
});
```

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Sync method

The sync method is based on JavaScript's async and await (keep browser compatibility in mind when using it). The code of the callback method above is equivalent to the following code:



```
async function upload() {
  // The initialization process and upload parameters are omitted here.
  var cos = new COS({ ... });
  try {
    var data = await cos.uploadFile({ ... });
```

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```
    return { err: null, data: data }
  } catch (err) {
    return { err: err, data: null };
  }
}
// The returned value of the request can be obtained synchronously. Here is only an
var uploadResult = await upload();
if (uploadResult.err) {
  console.log('Upload failed', uploadResult.err);
} else {
  console.log('Uploaded successfully', fuploadResult.data);
}
```

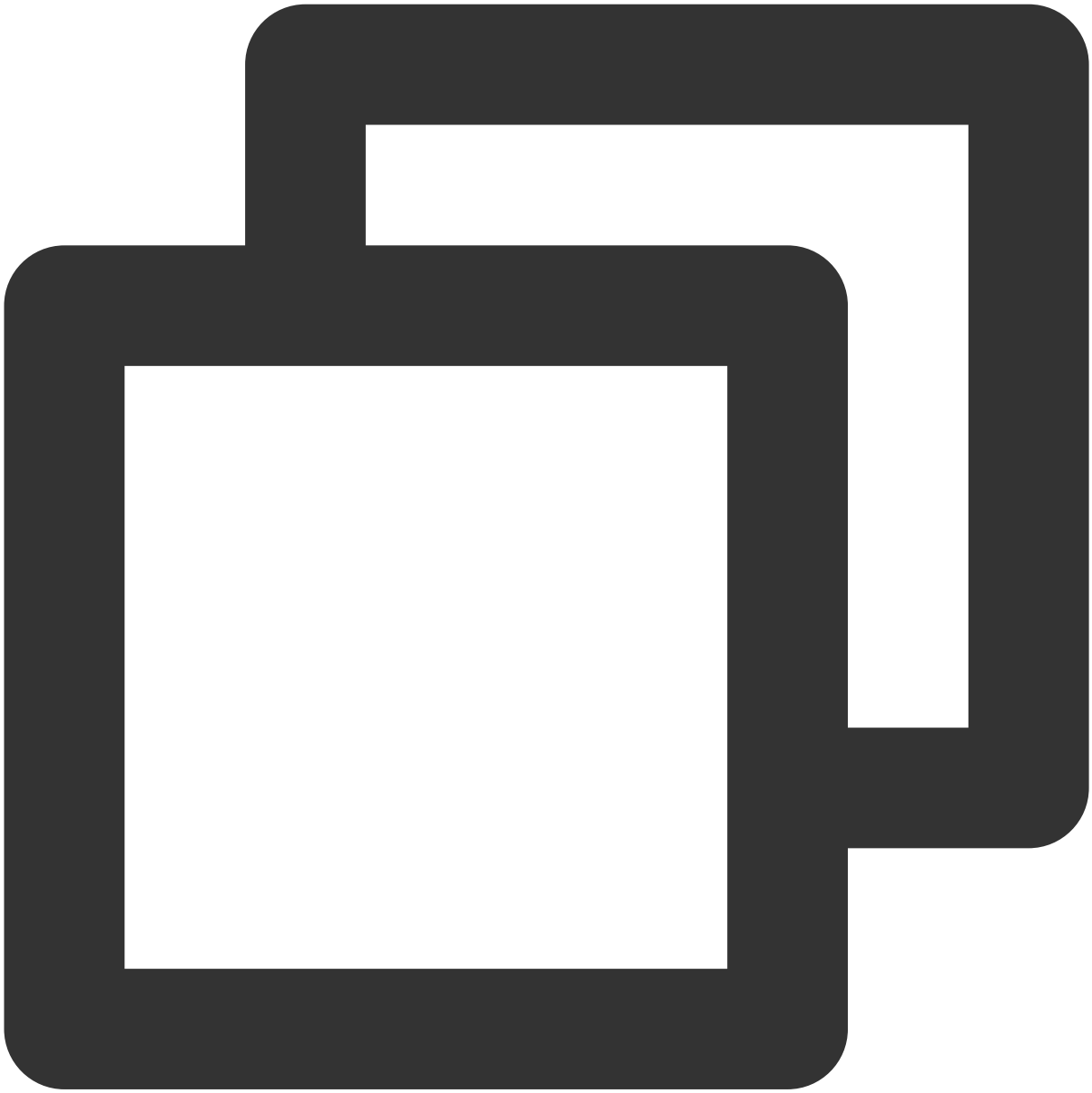
Note:

`cos.getObjectUrl` currently only supports the callback method.

Tips

In most cases, you only need to create a COS SDK instance, and use it directly where SDK methods need to be called.

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```
/* Sample Vue project */

/* Create `cos.js` and export the COS instance */
import COS from 'cos-js-sdk-v5'; // SDK installed using npm
const cos = new COS({
  ....
});
export default cos;

/* `page.vue` in a single page */
<template>
```

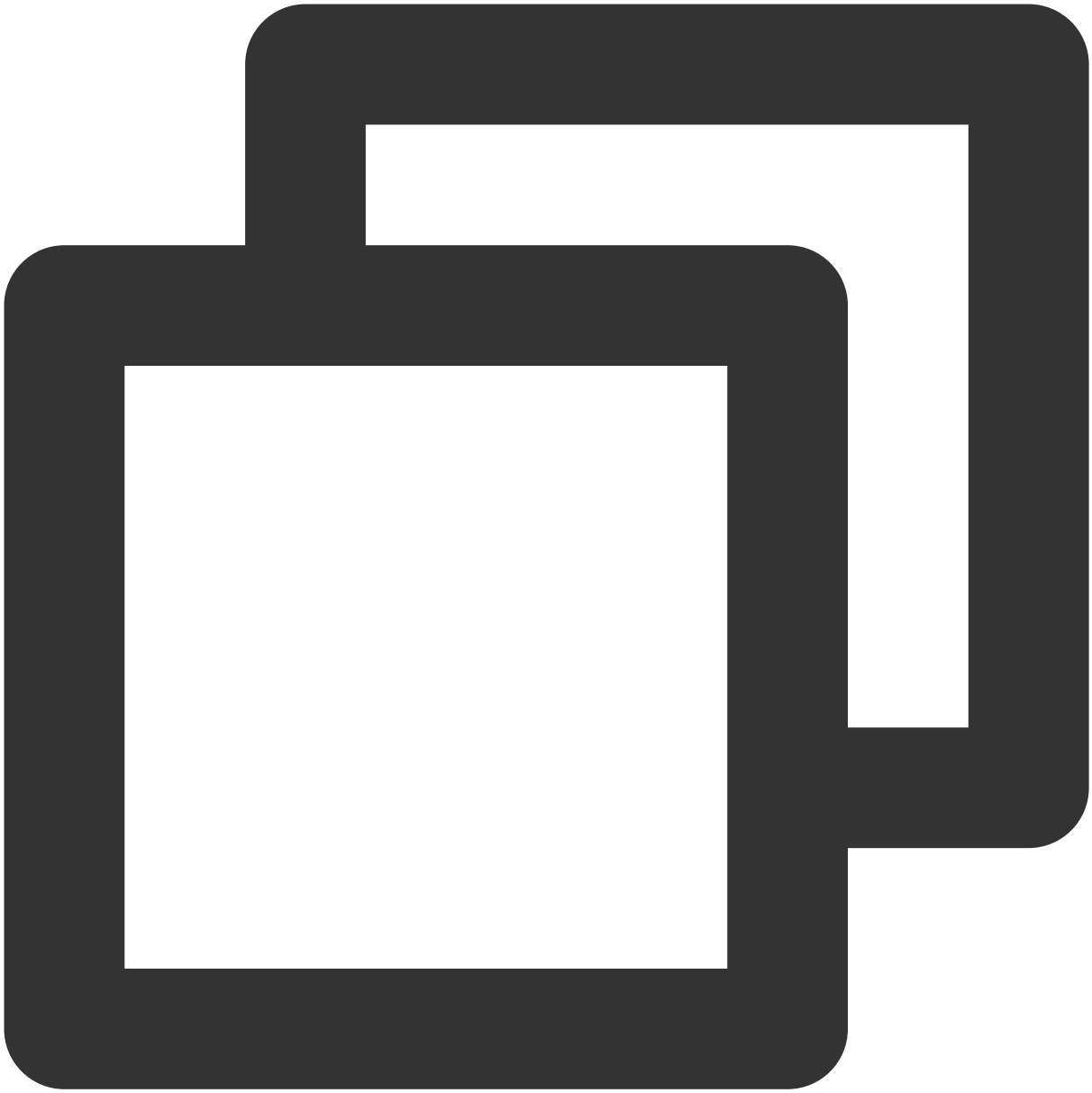
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```
  <input id="fileSelector" type="file" @change="upload" />
</template>
<script>
  /* Import the path of the `cos.js` newly created above */
  import cos from 'cos';
  export default {
    data() {},
    methods: {
      upload(e) {
        const file = e.target.files && e.target.files[0];
        /* Call the method of COS SDK directly */
        cos.uploadFile({
          Bucket: 'examplebucket-1250000000', /* Your bucket name. Required. */
          Region: 'COS_REGION',     /* Bucket region. Required */
          Key: '1.jpg',  /* Object key stored in the bucket (for example, `1.jpg` a
          Body: file, // Upload the file object
          SliceSize: 1024 * 1024 * 5,     /* Threshold (5 MB in this example) to tr
        });
      }
    },
  }
</script>
```

Below are some common APIs. For more detailed initialization methods, see the demo.

Querying objects

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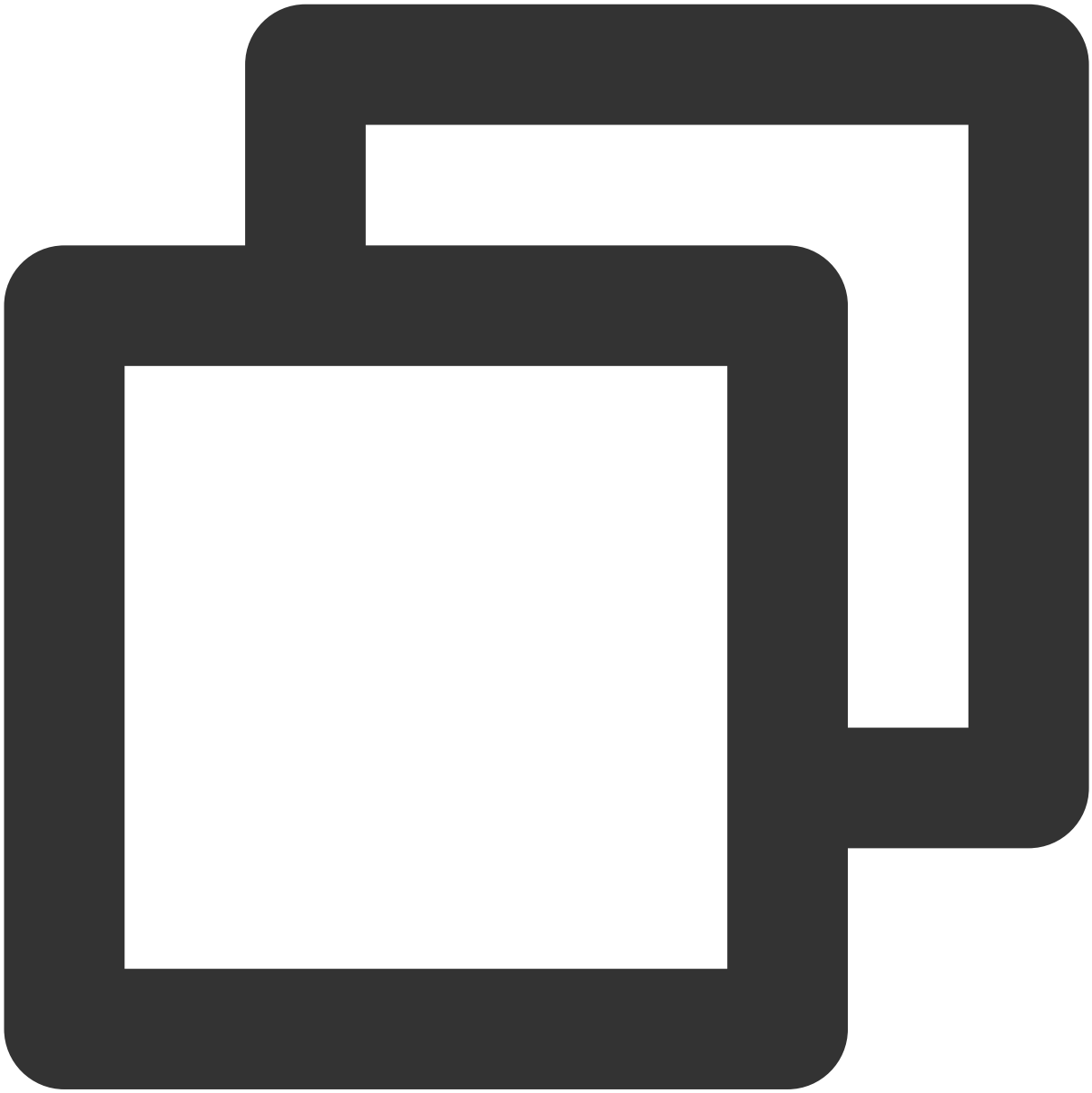


```
cos.getBucket({
    Bucket: 'examplebucket-1250000000', /* Your bucket name. Required. */
    Region: 'COS_REGION',     /* Bucket region. Required */
    Prefix: 'a/',           /* All files in directory `a`. Optional */
}, function(err, data) {
    console.log(err || data.Contents);
});
```

Uploading an object

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We strongly recommend you use the advanced upload API `uploadFile`, which automatically uses simple upload for small files and multipart upload for large files for a better performance. For more information, see Uploading Object. If you use the temporary key method, you need to grant the permissions of both simple upload and multipart upload as instructed in Working with COS API Authorization Policies.
For SDK FAQs, see FAQs.

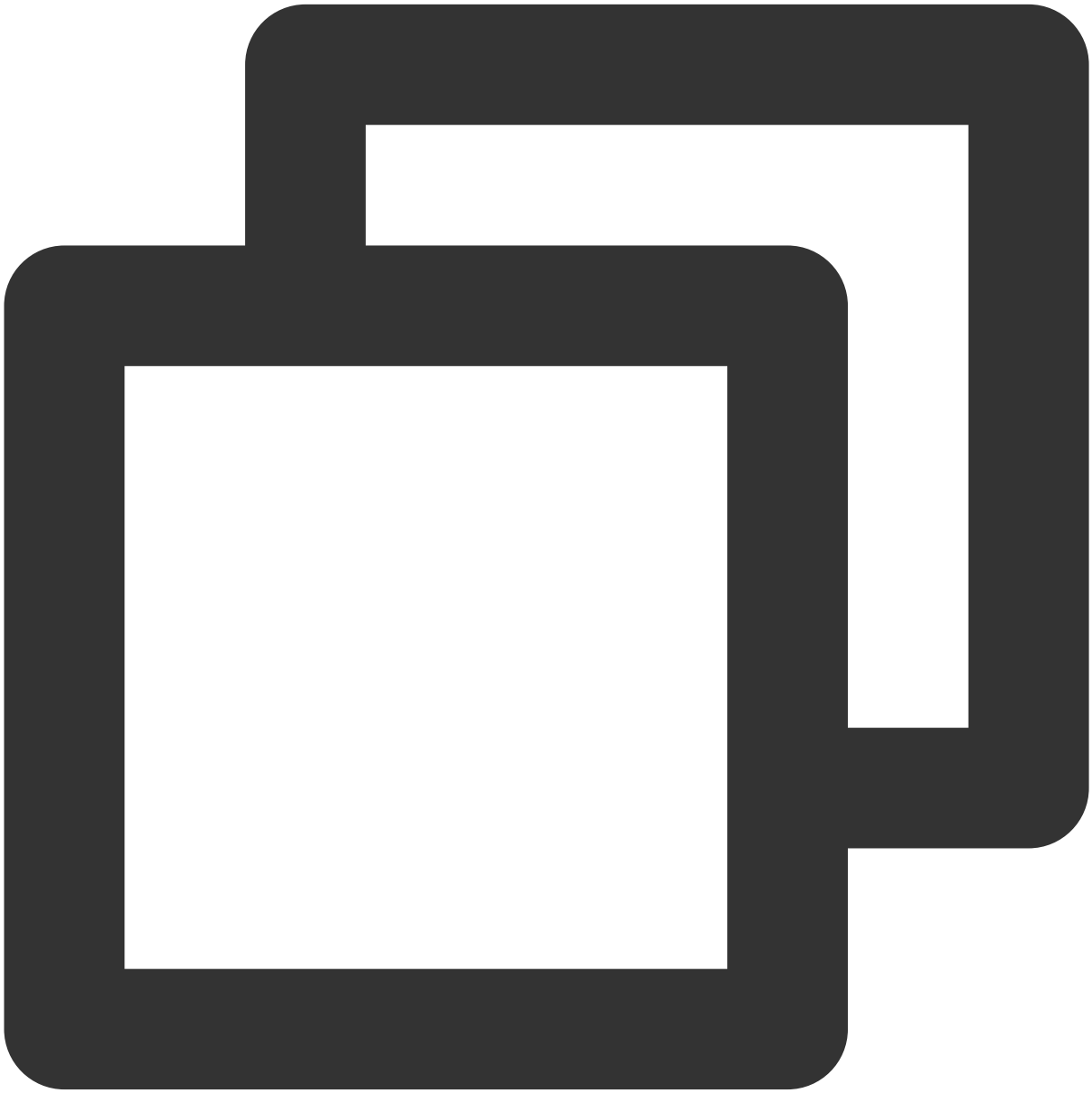


```
<!-- DOM element in the HTLM file -->

<!-- Choose an image to upload -->
<input id="fileSelector" type="file" />
```

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```
<!-- Click the button to upload the image -->
<input id="submitBtn" type="submit" />
```



```
function handleFileInUploading(file) {
  cos.uploadFile({
      Bucket: 'examplebucket-1250000000', /* Your bucket name. Required. */
      Region: 'COS_REGION',     /* Bucket region. Required */
      Key: '1.jpg',              /* Object key stored in the bucket (required), suc
      Body: file, // Upload the file object
      SliceSize: 1024 * 1024 * 5,     /* Threshold (5 MB in this example) to trigge
      onProgress: function(progressData) {
```

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```
            console.log(JSON.stringify(progressData));
        }
    }, function(err, data) {
        if (err) {
          console.log('Upload failed', err);
        } else {
          console.log('Uploaded successfully');
        }
    });
}

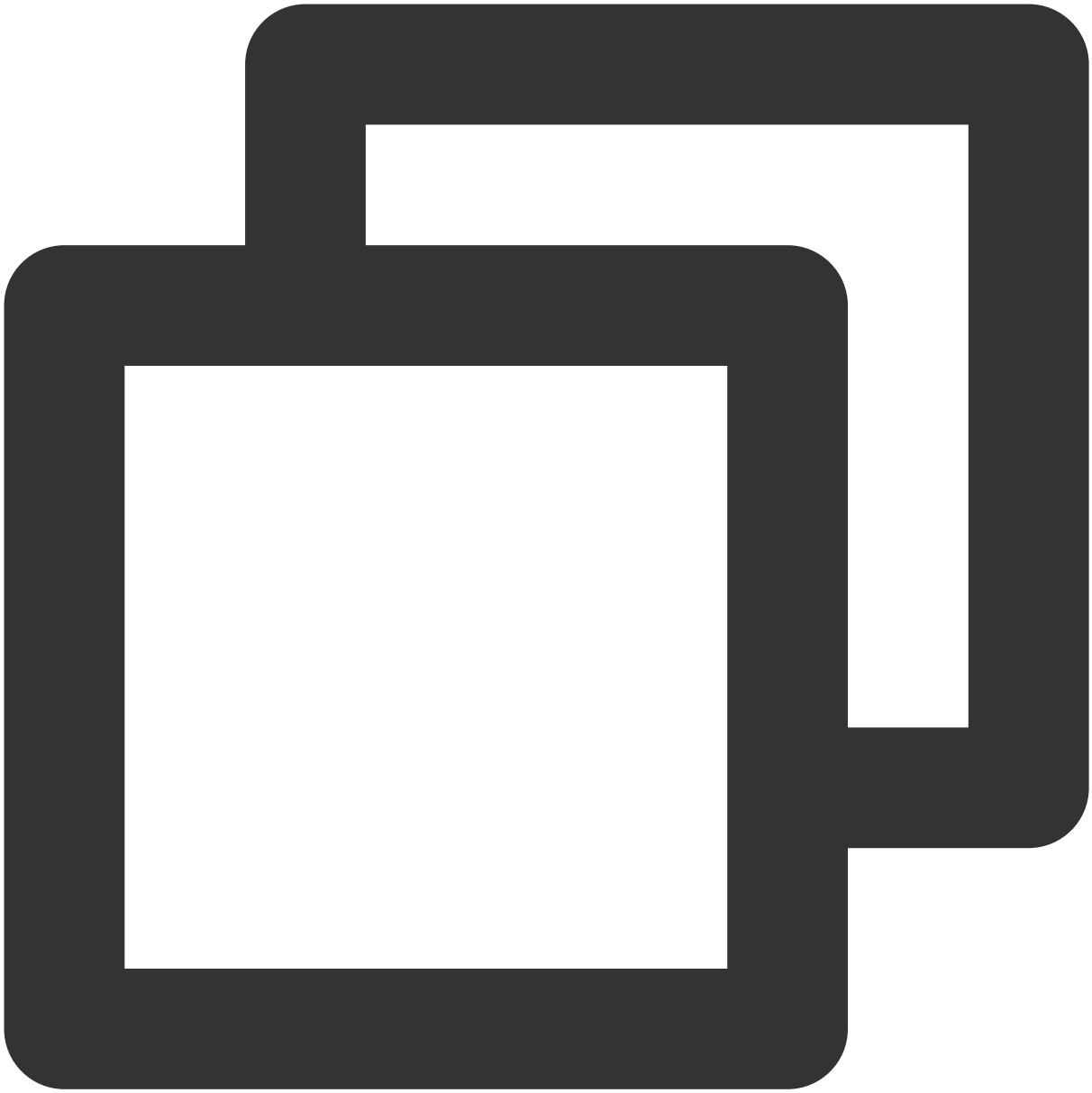
/* Select a file */
document.getElementById('submitBtn').onclick = function (e) {
  var file = document.getElementById('fileSelector').files[0];
  if (!file) {
    document.getElementById('msg').innerText = 'File to upload not selected';
    return;
  }
  handleFileInUploading(file);
};
```

Downloading an object

Note:

Object download is implemented by generating a pre-signed URL and triggering download in the browser.

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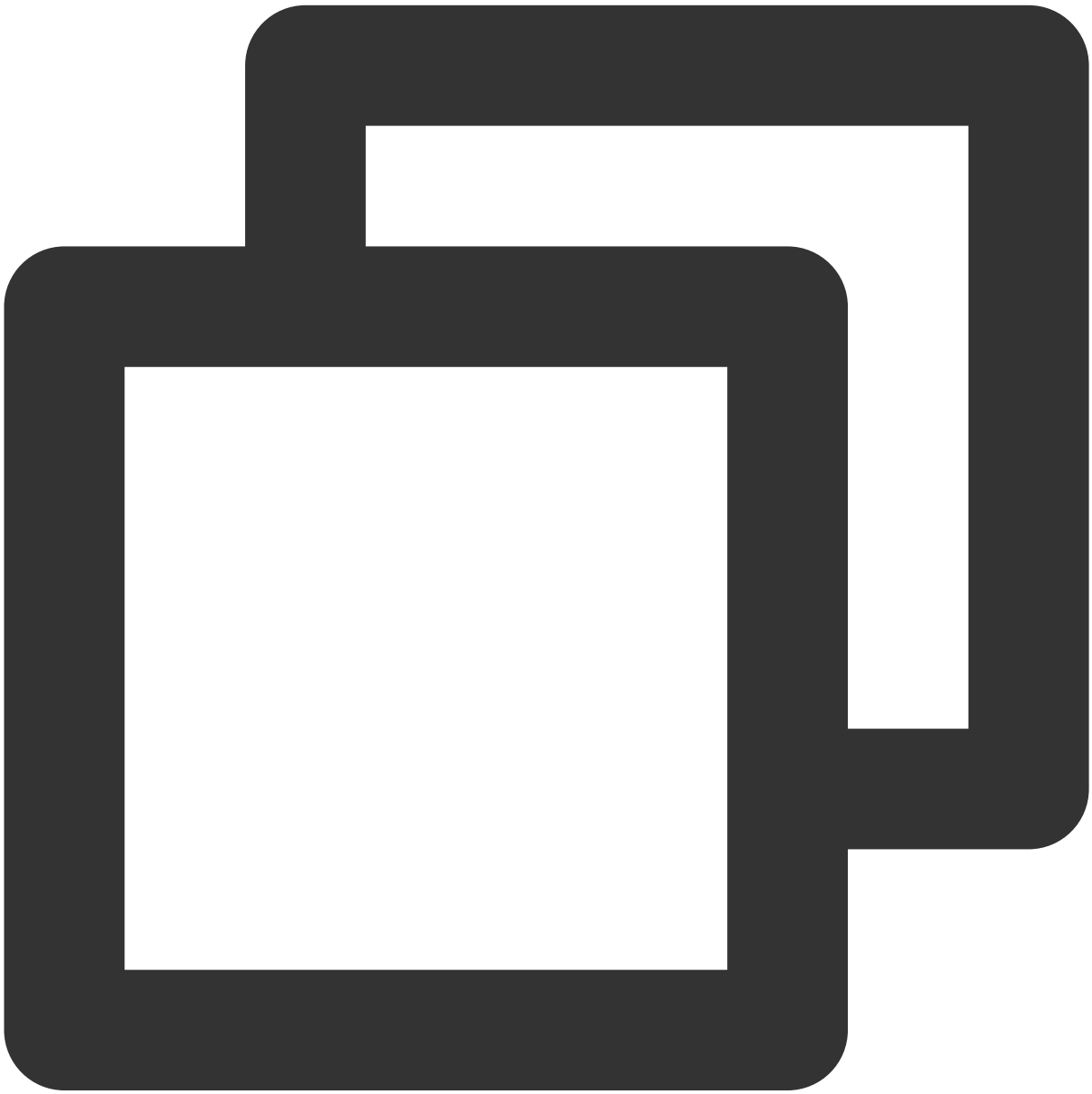


```
cos.getObjectUrl({
    Bucket: 'examplebucket-1250000000', /* Your bucket name. Required. */
    Region: 'COS_REGION',     /* Bucket region. Required */
    Key: '1.jpg',  /* Object key stored in the bucket (for example, `1.jpg` and `a/
}, function(err, data) {
    if (err) return console.log(err);
     /* Implement forced download by specifying `response-content-disposition=attac
    var downloadUrl = data.Url + (data.Url.indexOf('?') > -1 ? '&' : '?') + 'respon
    /* The filename can be concatenated to rename the object during download */
    /* downloadUrl += ';filename=myname'; */
    // (The window.open() mode is recommended.) This opens the URL in a new window.
```

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```
    window.open(downloadUrl);
});
```

Deleting an object



```
cos.deleteObject({
    Bucket: 'examplebucket-1250000000', /* Your bucket name. Required. */
    Region: 'COS_REGION',     /* Bucket region. Required */
    Key: '1.jpg',  /* Object key stored in the bucket (for example, `1.jpg` and `a/
}, function(err, data) {
```

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```
    console.log(err || data);
});
```

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Image Processing
Basic Image Processing

Last updated：2024-03-01 10:49:05

Overview

This document provides an overview of APIs and SDK code samples for basic image processing.

Service	Feature	Description
Basic image processing	Scaling	Proportional scaling, scaling image to target width and height
	Cropping	Regular cropping, cropping and scaling, inscribed circle cropping, intelligent face cropping
	Rotation	Adaptive rotation, regular rotation
	Format conversion	Format conversion, GIF format optimization, progressive display
	Quality change	Quality change for JPG and WebP images
	Gaussian blurring	Image blurring
	Sharpening	Image sharpening
	Watermarking	Image watermark, text watermark
	Image information acquisition	Basic information, EXIF information, average hue
	Metadata removal	Including EXIF information
	Quick thumbnail template	Quick image format conversion, scaling, and cropping for thumbnail generation

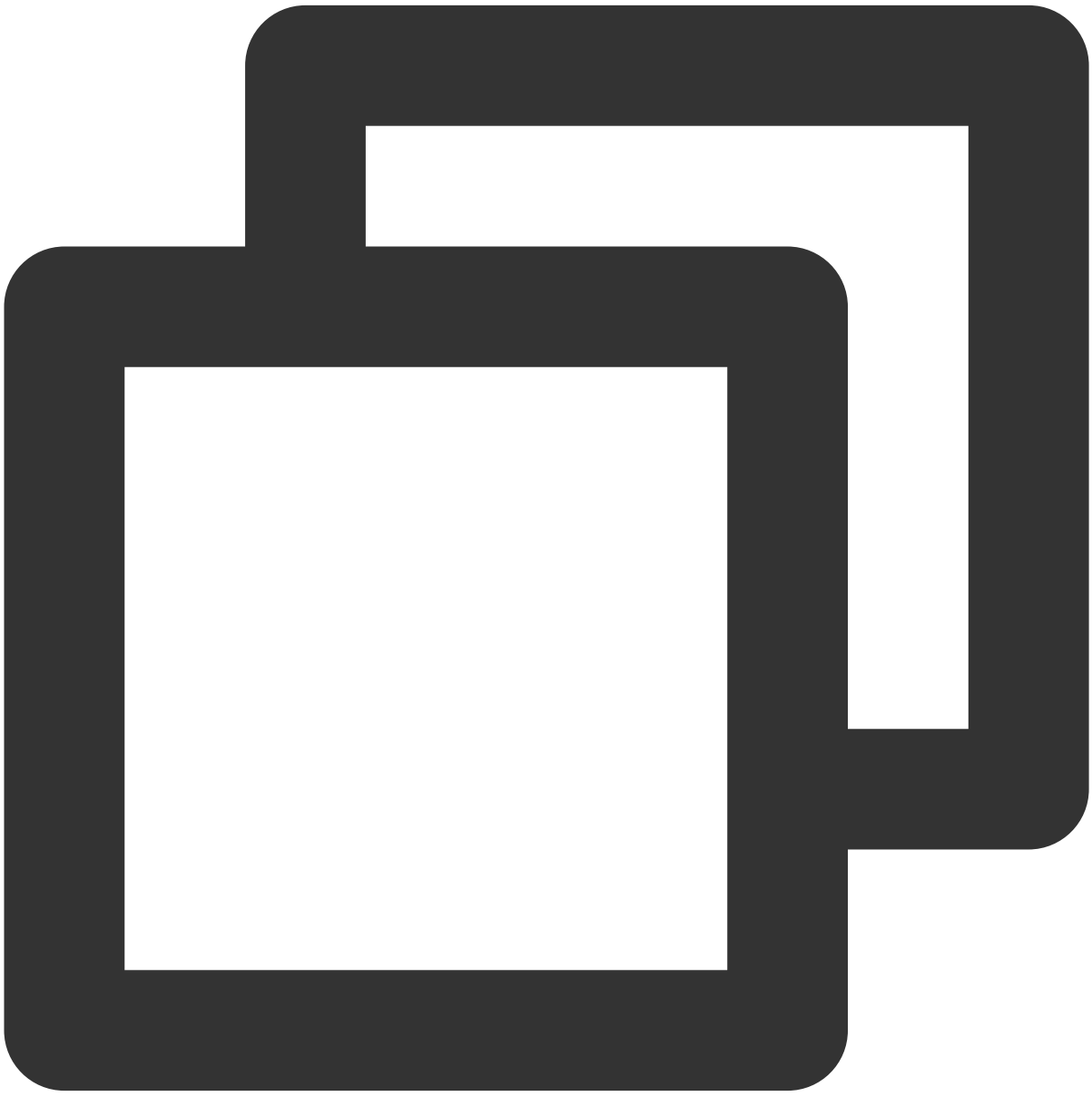
Processing Image During Upload

The following example shows how to automatically process an image when you upload it to COS.

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When the image is uploaded successfully, COS will save both the original and the processed images. You can later obtain the processing results by using a general download request.

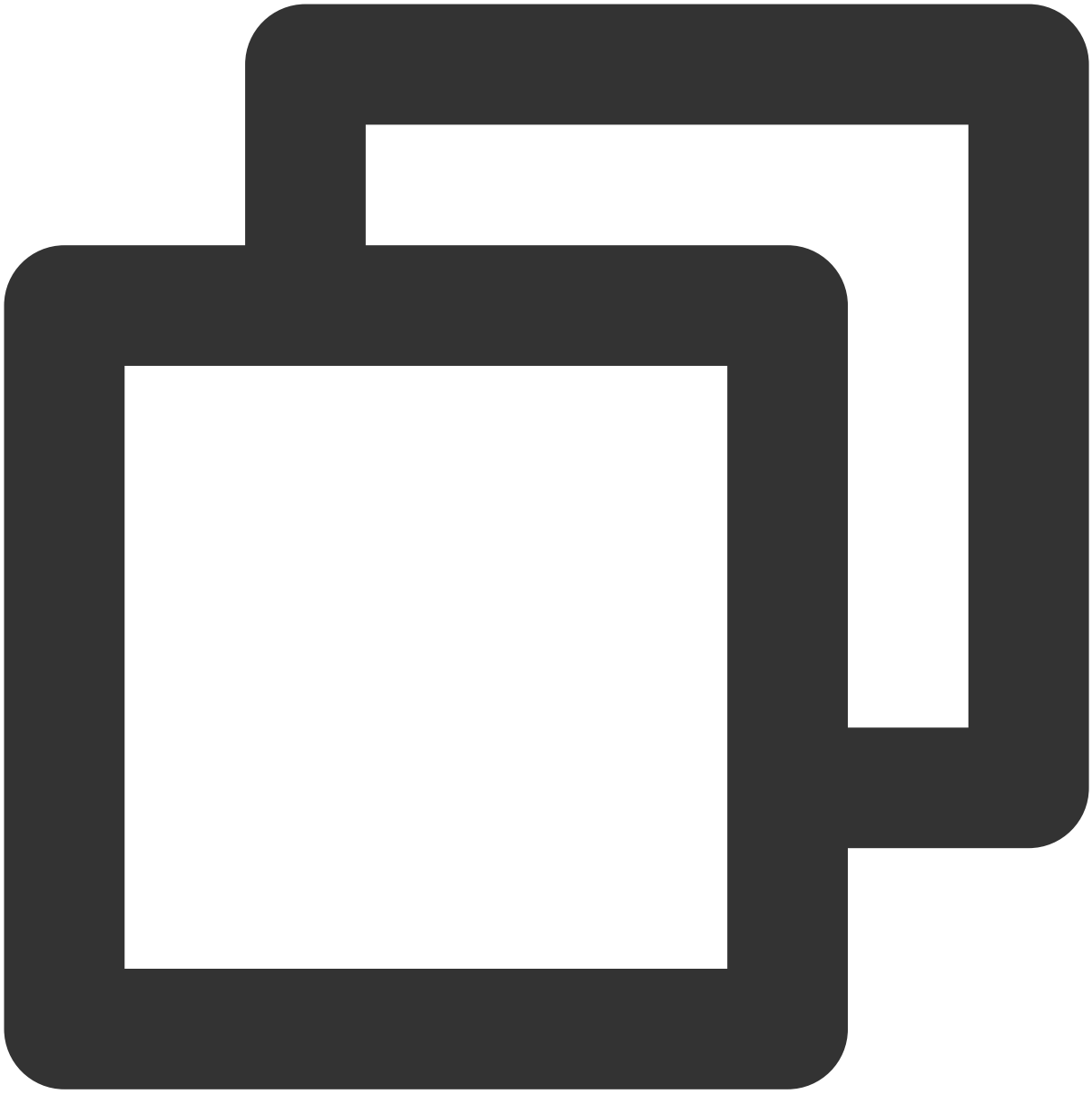
Sample code



```
<!-- DOM element on the HTLM page -->

<!-- Choose a file to upload -->
<input id="fileSelector" type="file" />
<!-- Click the button for upload-->
<input id="submitBtn" type="submit" />
```

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```
function handleFileInUploading(file) {
  cos.putObject(
    {
      Bucket: 'examplebucket-1250000000',
      Region: 'COS_REGION',
      Key: file.name,
      Body: file,
      Headers: {
        // Use the `imageMogr2` API to scale the image (by specifying the width of
        'Pic-Operations':
```

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```
            '{"is_pic_info": 1, "rules": [{"fileid": "desample_photo.jpg", "rule": "i
        },
      },
      function (err, data) {
        console.log(err || data);
      },
    );
}

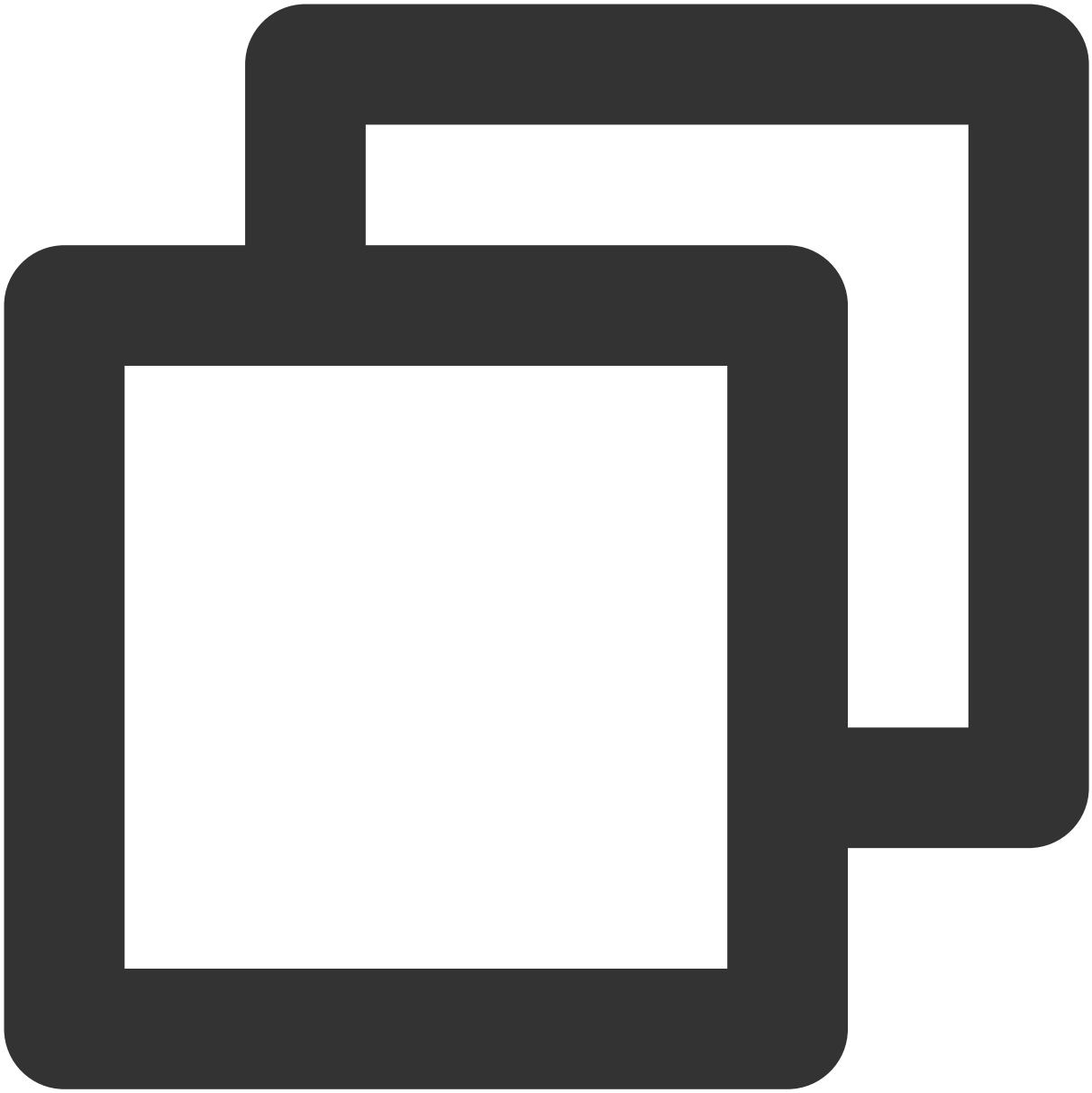
document.getElementById('submitBtn').onclick = function (e) {
  var file = document.getElementById('fileSelector').files[0];
  if (!file) {
    document.getElementById('msg').innerText = 'No file selected for upload';
    return;
  }
  handleFileInUploading(file);
};
```

Processing In-Cloud Image

The following example shows how to process an image stored in COS and save the processing result to COS.

Sample code

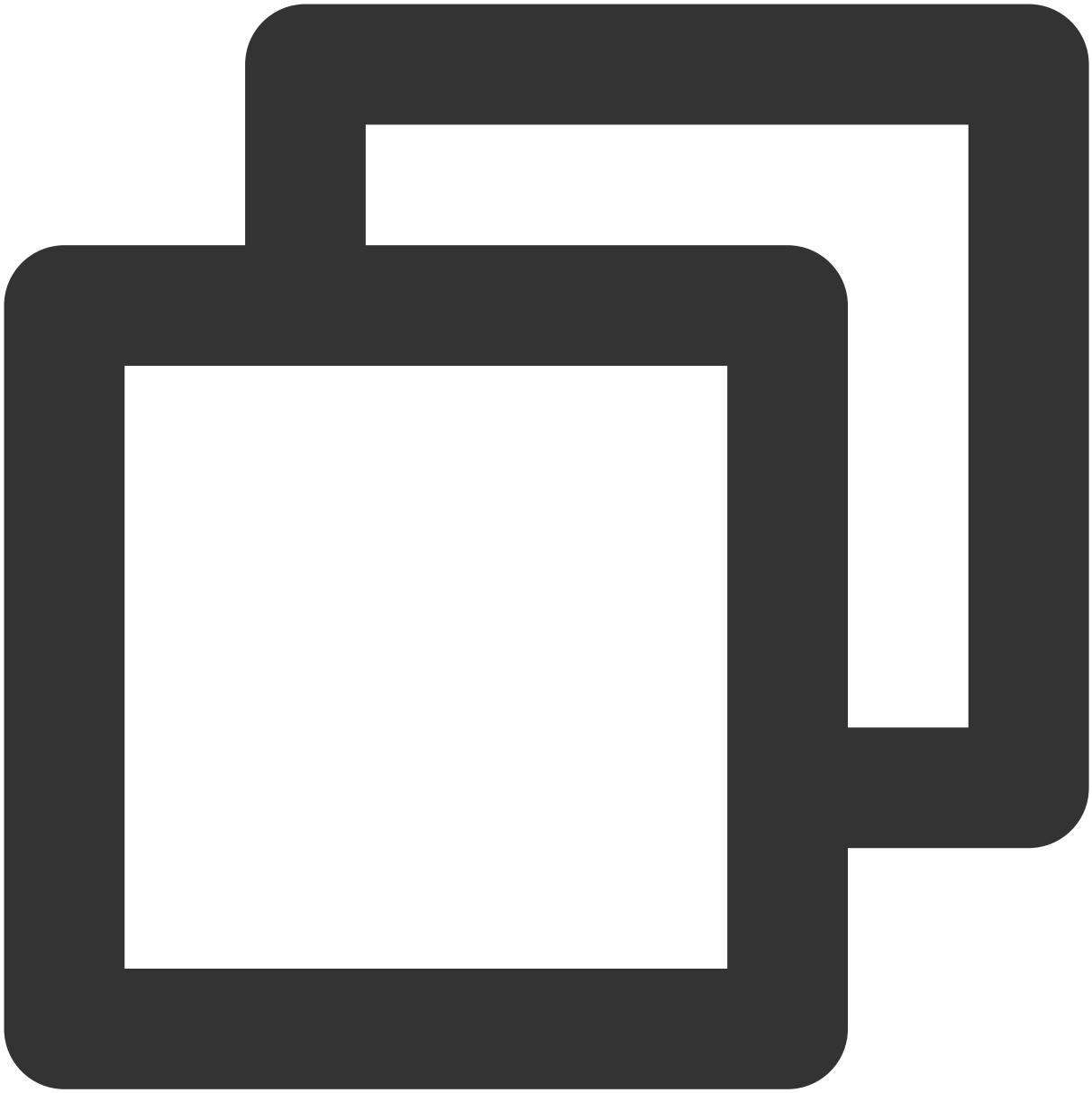
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```
<!-- DOM element on the HTLM page -->

<!-- Click the button to process the in-cloud image -->
<input id="submitBtn" type="submit" />
```

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```
function handleFileInBucket() {
  cos.request(
    {
      Bucket: 'examplebucket-1250000000',
      Region: 'COS_REGION',
      Key: 'exampleImage',
      Method: 'POST',
      Action: 'image_process',
      Headers: {
        // Use the `imageMogr2` API to scale the image (by specifying the width of
        'Pic-Operations':
```

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```
            '{"is_pic_info": 1, "rules": [{"fileid": "desample_photo.jpg", "rule": "i
        },
      },
      function (err, data) {
        console.log(err || data);
      },
    );
}

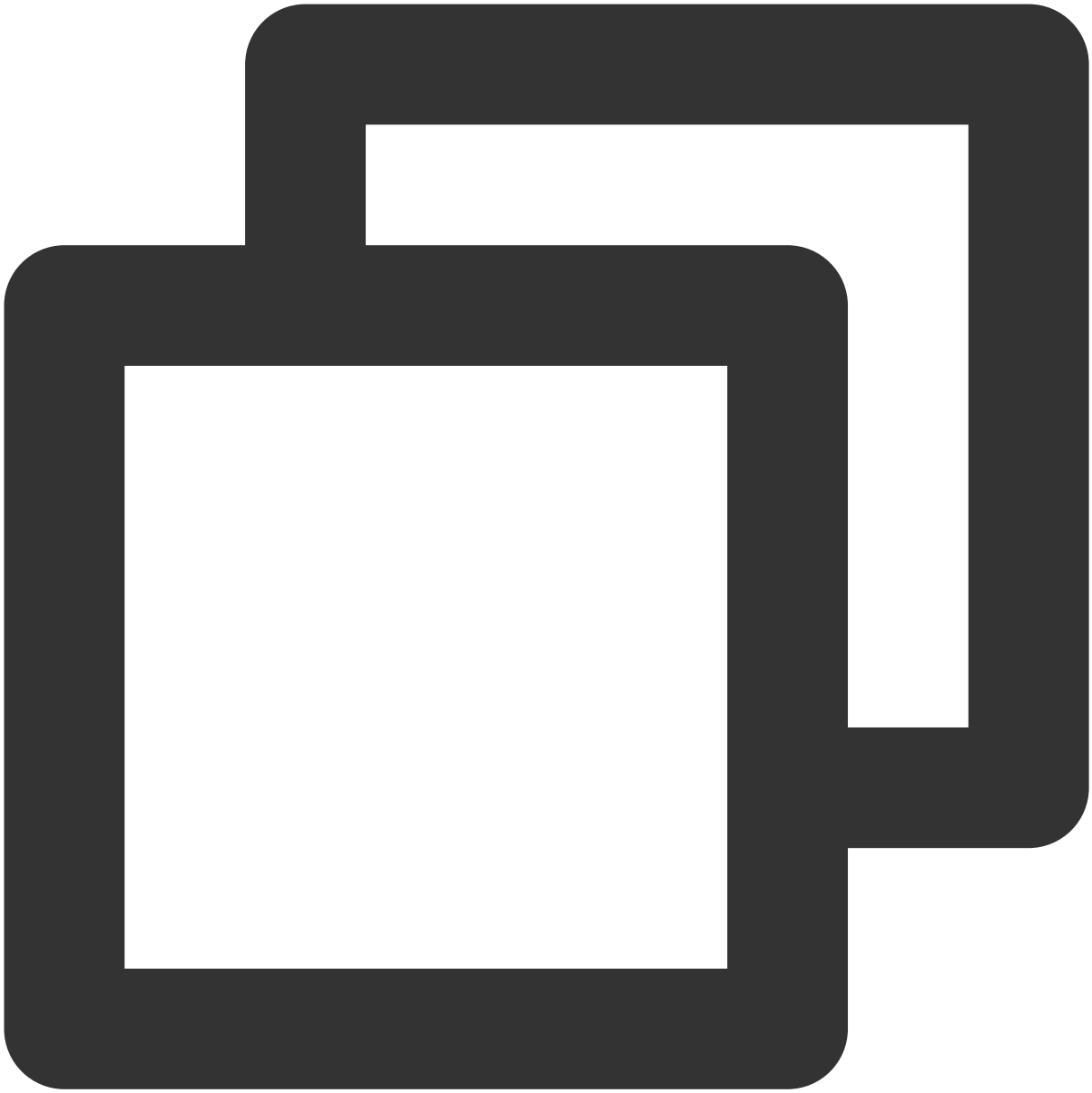
document.getElementById('submitBtn').onclick = function (e) {
  handleFileInBucket();
};
```

Processing Image During Download

The following example shows how to process an image during download.

Sample code

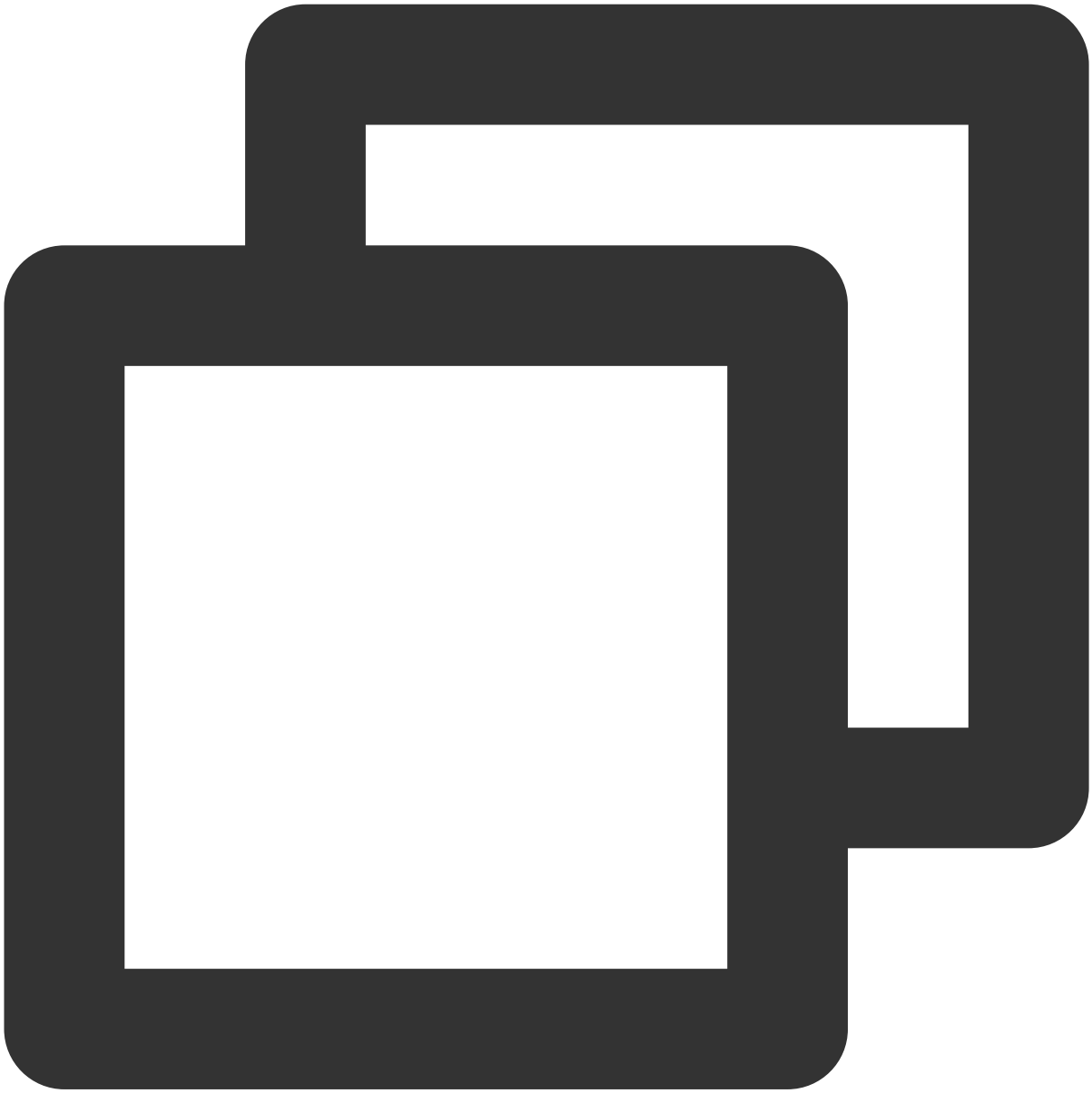
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```
<!-- DOM element on the HTLM page -->

<!-- Click the button to download and process the image -->
<input id="submitBtn" type="submit" />
```

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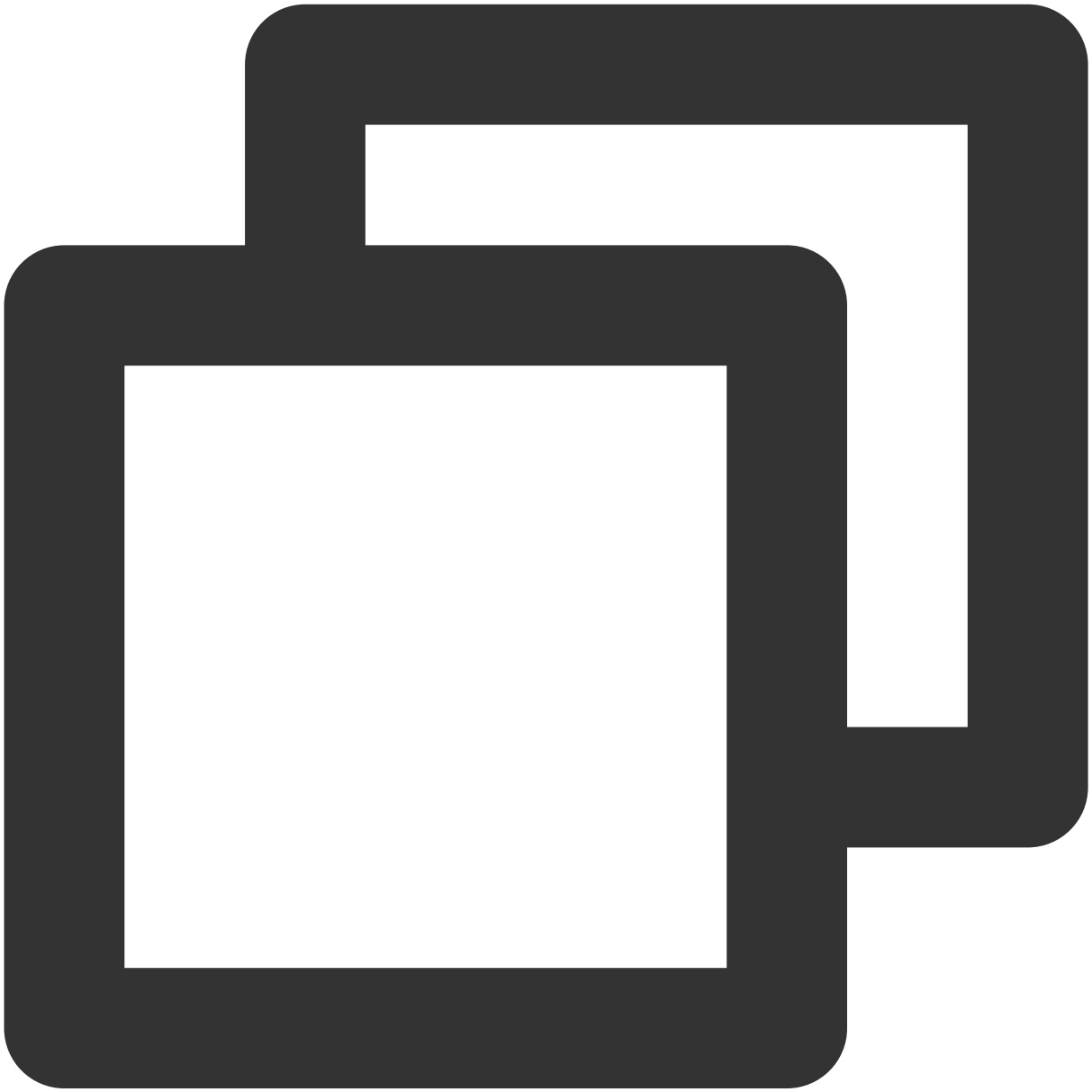
```
function getObject() {
  cos.getObject(
    {
      Bucket: 'examplebucket-1250000000',
      Region: 'COS_REGION',
      Key: 'exampleobject',
      QueryString: `imageMogr2/thumbnail/200x/`,
    },
    function (err, data) {
      console.log(err || data);
    },
```

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```
  );
}
```

Generating Signed URL with Image Processing Parameters

Sample code



```
// Generate a signed URL (valid for 30 minutes) with image processing parameters.
cos.getObjectUrl(
```

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```
  {
    Bucket: 'examplebucket-1250000000',
    Region: 'COS_REGION',
    Key: 'exampleobject',
    Query: {
        `imageMogr2/thumbnail/200x/`: ''
    },
    Expires: 1800,
    Sign: true,
  },
  function (err, data) {
    if (data) {
      console.log(data.URL);
    }
  },
);

// Generate an unsigned URL with image processing parameters.
cos.getObjectUrl(
  {
    Bucket: 'examplebucket-1250000000',
    Region: 'COS_REGION',
    Key: 'exampleobject',
    Query: {
      `imageMogr2/thumbnail/200x/`: ''
    },
    Sign: false,
  },
  function (err, data) {
    if (data) {
      console.log(data.URL);
    }
  },
);
```

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Blind Watermark

Last updated：2024-03-01 10:49:05

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.

For blind watermark APIs, see Blind Watermarking.

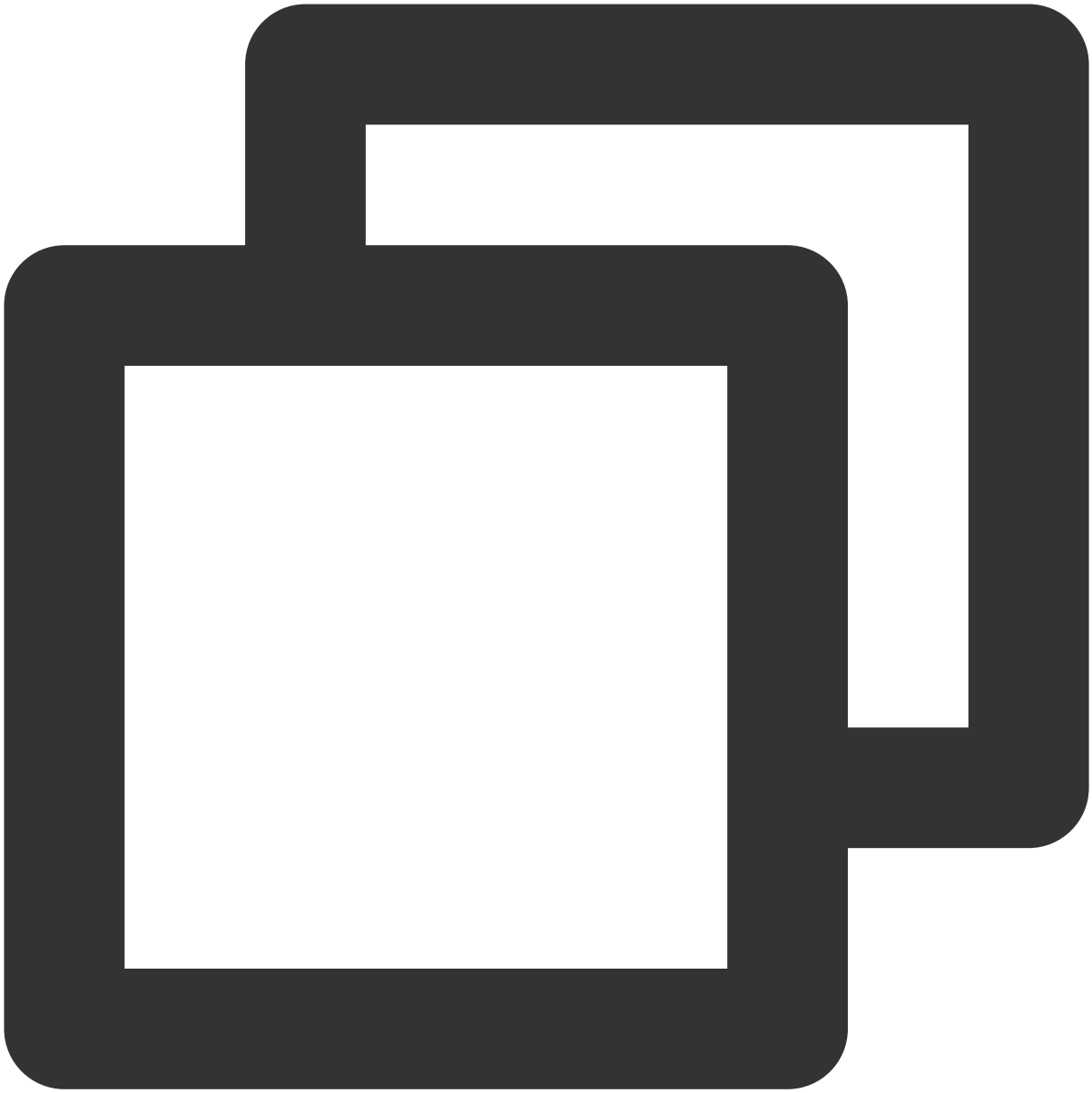
Adding Blind Watermark

Feature description

You can add a blind watermark when uploading or downloading an object.

Sample 1: Adding a blind watermark during upload

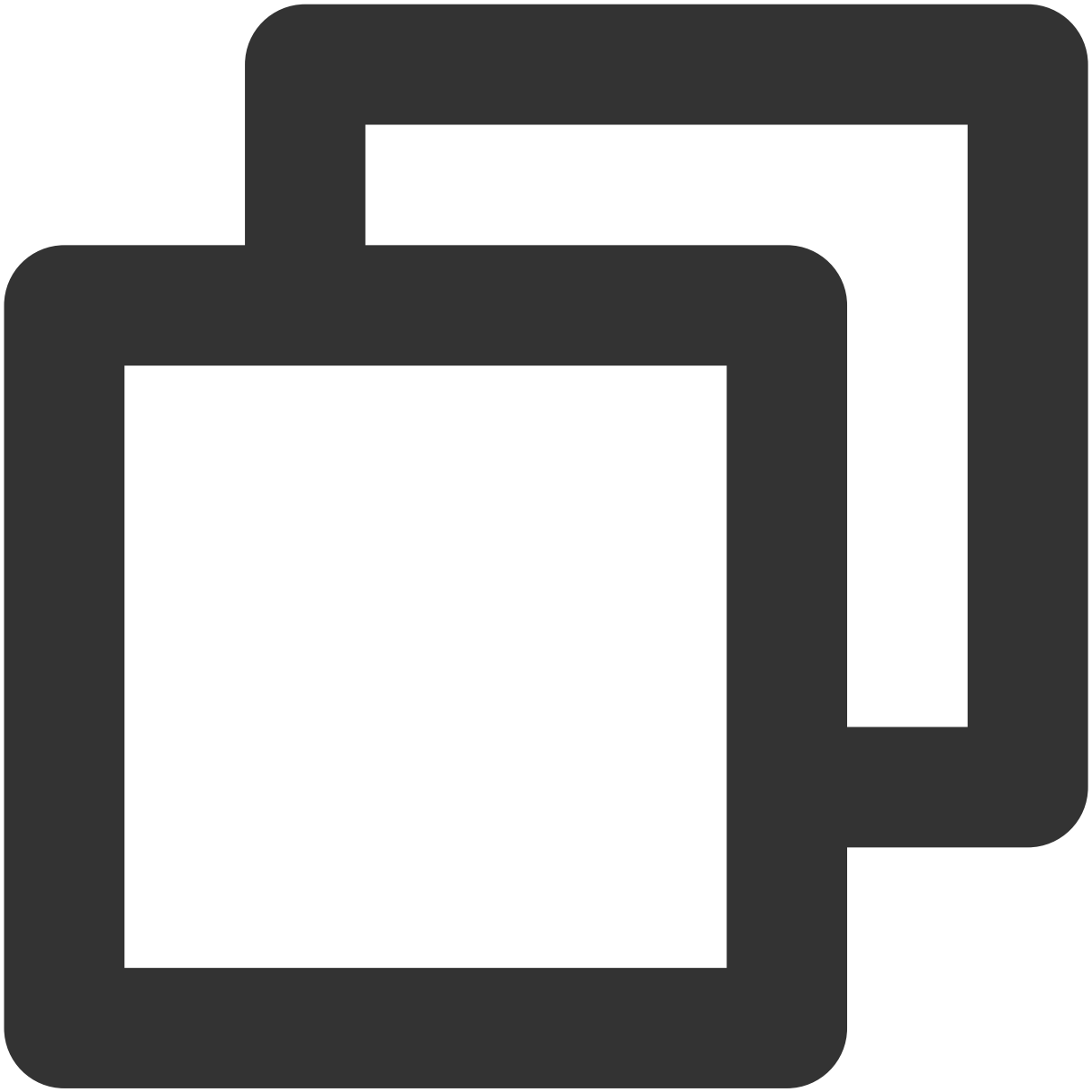
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```
<!-- DOM element on the HTLM page -->

<!-- Choose a file to upload -->
<input id="fileSelector" type="file" />
<!-- Click the button for upload-->
<input id="submitBtn" type="submit" />
```

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```
function handleFileInUploading(file) {
  cos.putObject(
    {
      Bucket: 'examplebucket-1250000000',
      Region: 'COS_REGION',
      Key: file.name,
      Body: file,
      Headers: {
        // CI's persistent processing API during upload
        'Pic-Operations':
          '{"is_pic_info": 1, "rules": [{"fileid": "desample_photo.jpg", "rule": "w
```

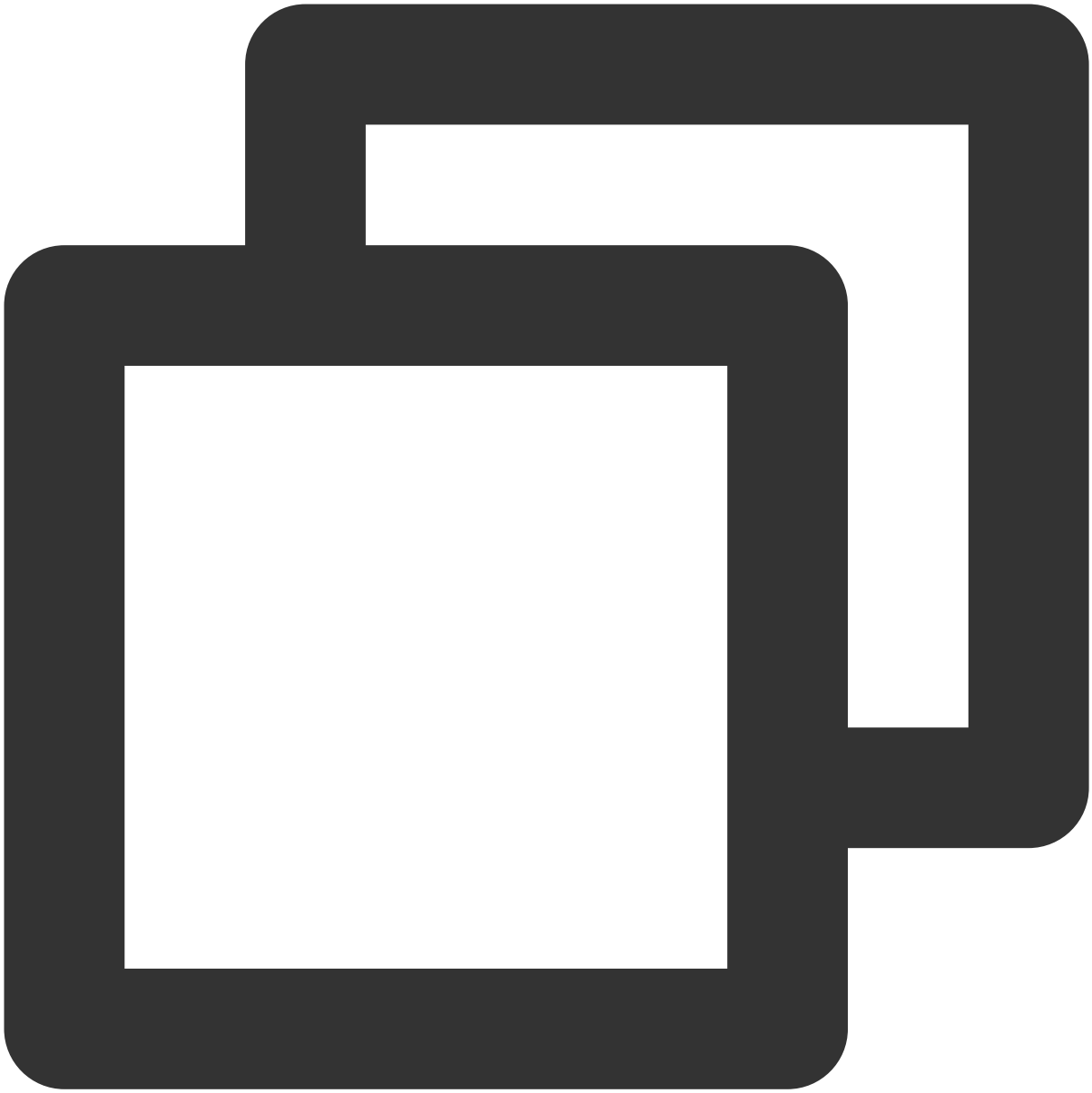
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```
      },
    },
    function (err, data) {
      console.log(err || data);
    },
  );
}

document.getElementById('submitBtn').onclick = function (e) {
  var file = document.getElementById('fileSelector').files[0];
  if (!file) {
    document.getElementById('msg').innerText = 'No file selected for upload';
    return;
  }
  handleFileInUploading();
};
```

Sample 2: Adding a blind watermark during download

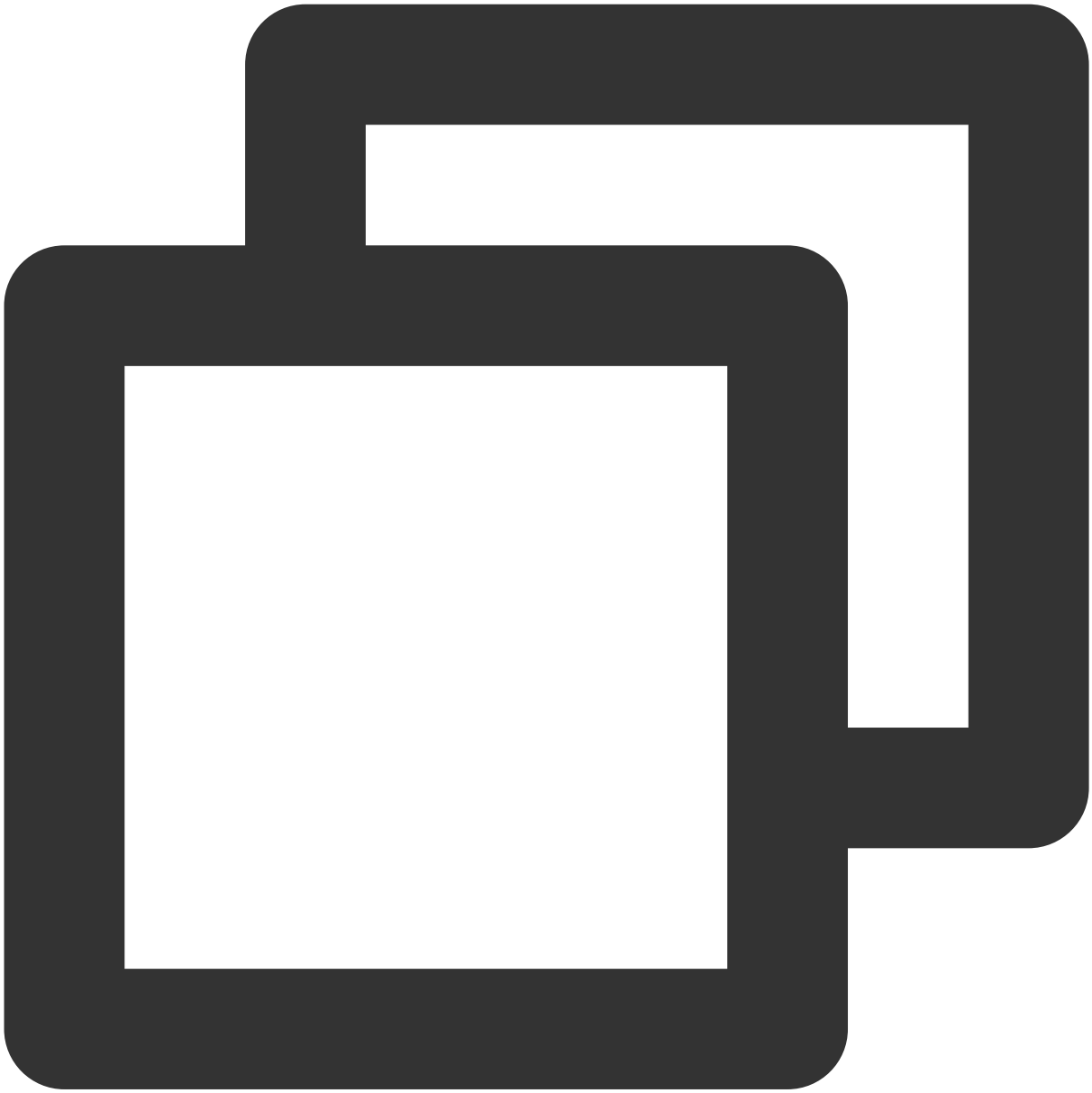
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```
<!-- DOM element on the HTLM page -->

<!-- Click the button to download and process the image -->
<input id="submitBtn" type="submit" />
```

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```
function getObject() {
  cos.getObject(
    {
      Bucket: 'examplebucket-1250000000',
      Region: 'COS_REGION',
      Key: 'exampleobject',
      QueryString: `watermark/3/type/1/image/aHR0cDovL2V4YW1wbGVzLTEyNTEwMDAwMDQucG
    },
    function (err, data) {
      console.log(err || data);
    },
```

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```
    );
}
```

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Media Processing
Media Bucket APIs

Last updated：2024-03-01 10:49:05

Overview

This document provides an overview of APIs and SDK code samples for media buckets.

API	Operation	Description
DescribeMediaBuckets	Querying media processing activation status	Queries buckets with media processing enabled

Querying Media Processing Activation Status

Feature description

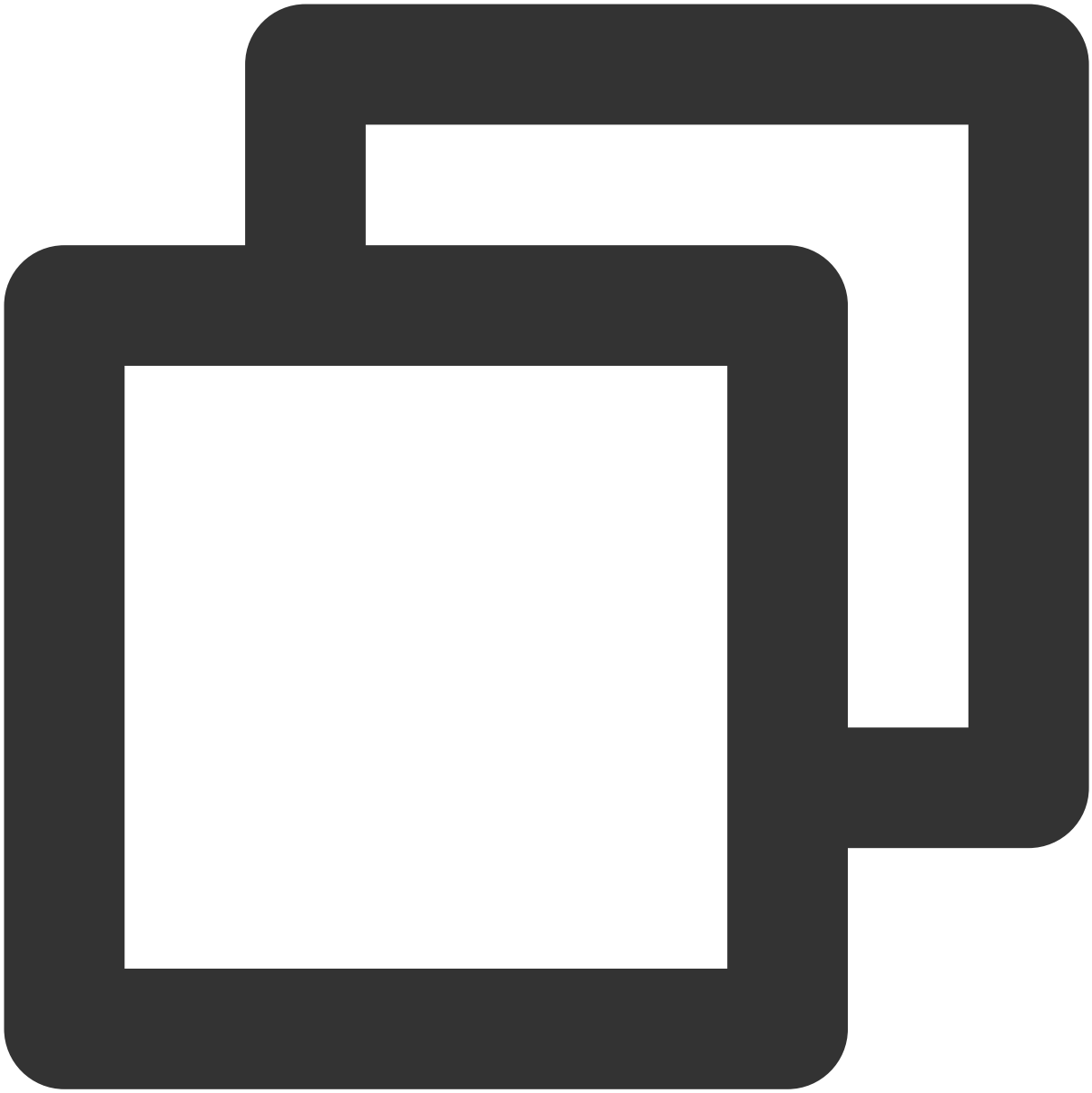
This API is used to query buckets with media processing enabled.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
var host = 'ci.' + config.Region + '.myqcloud.com';
var url = 'https://' + host + '/mediabucket';
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
```

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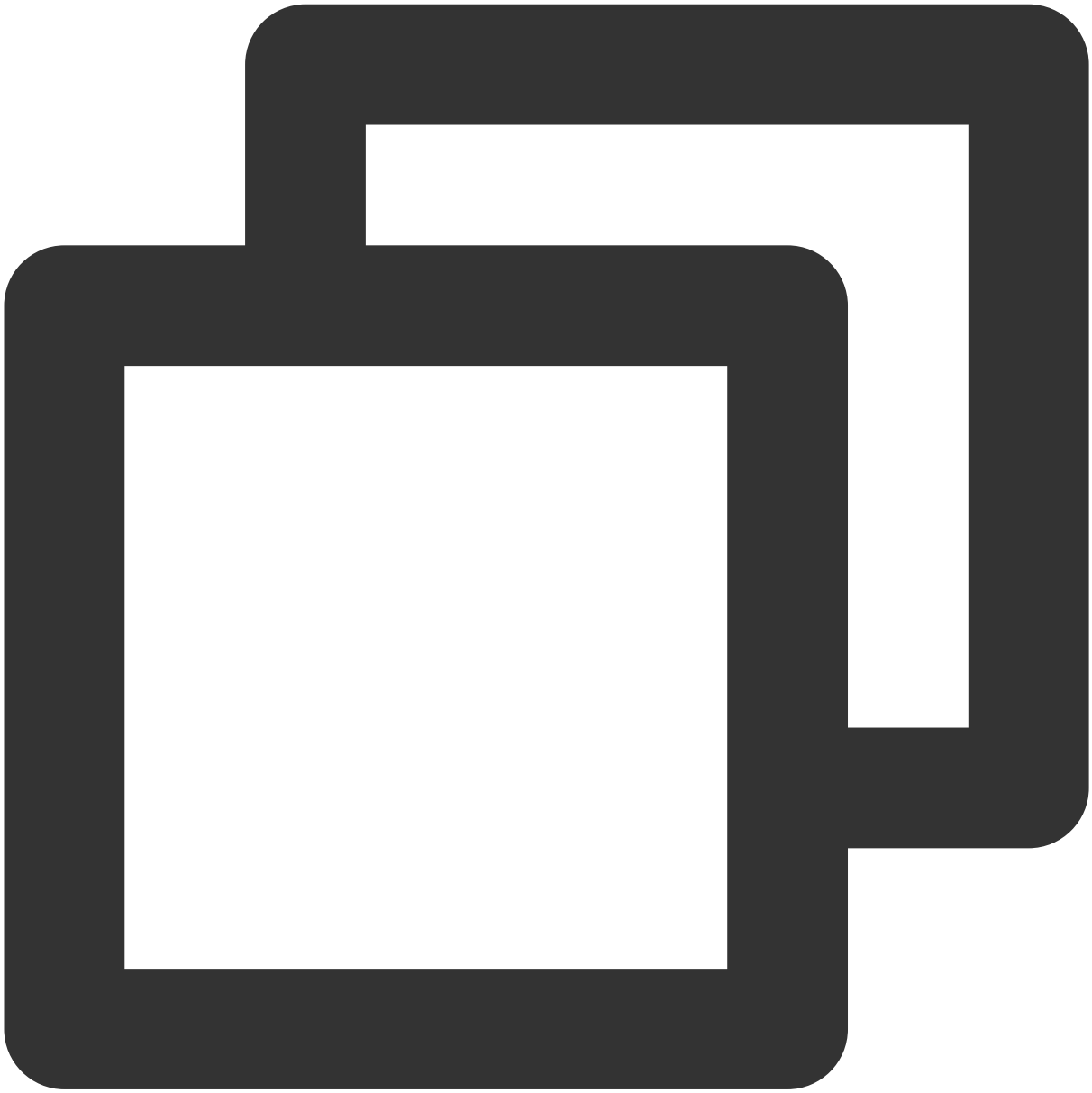
```
    Key: 'mediabucket', /** Fixed value (required) */
    Url: url,
    Query: {
        pageNumber: '1', /** Page number (optional) */
        pageSize: '10', /** Number of entries per page (optional) */
        // regions: 'ap-chengdu', /** Region (optional), such as 'ap-beijing'. To s
        // bucketNames: 'test-1250000000', /** Bucket name (optional), such as 'tes
        // bucketName: 'test', /** Bucket name prefix for prefix search (optional),
    }
}, function (err, data) {
    console.log(err || data);
});
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID`.	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Fixed value: mediabucket.	String	Yes
PageNumber	Page number.	String	No
PageSize	Number of entries per page.	String	No
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

Callback function description

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```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object

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data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200`, `403`, and `404`.	Number
- headers	Returned headers.	Object
- Response	Response result.	Object
- - RequestId	Unique ID of the request.	String
- - TotalCount	Total number of media buckets.	String
- - PageNumber	Current page number, which is the same as `pageNumber` in the request.	String
- - PageSize	Number of entries per page, which is the same as `pageSize` in the request.	String
- - MediaBucketList	Media bucket list.	Object
- - - BucketId	Bucket ID.	String
- - - Name	Bucket name, which is the same as `BucketId`.	String
- - - Region	Region.	String
- - - CreateTime	Creation time.	String

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Media Information APIs

Last updated：2024-03-01 10:49:05

Overview

This document provides an overview of APIs and SDK code samples for media information.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

Querying File Information

Feature description

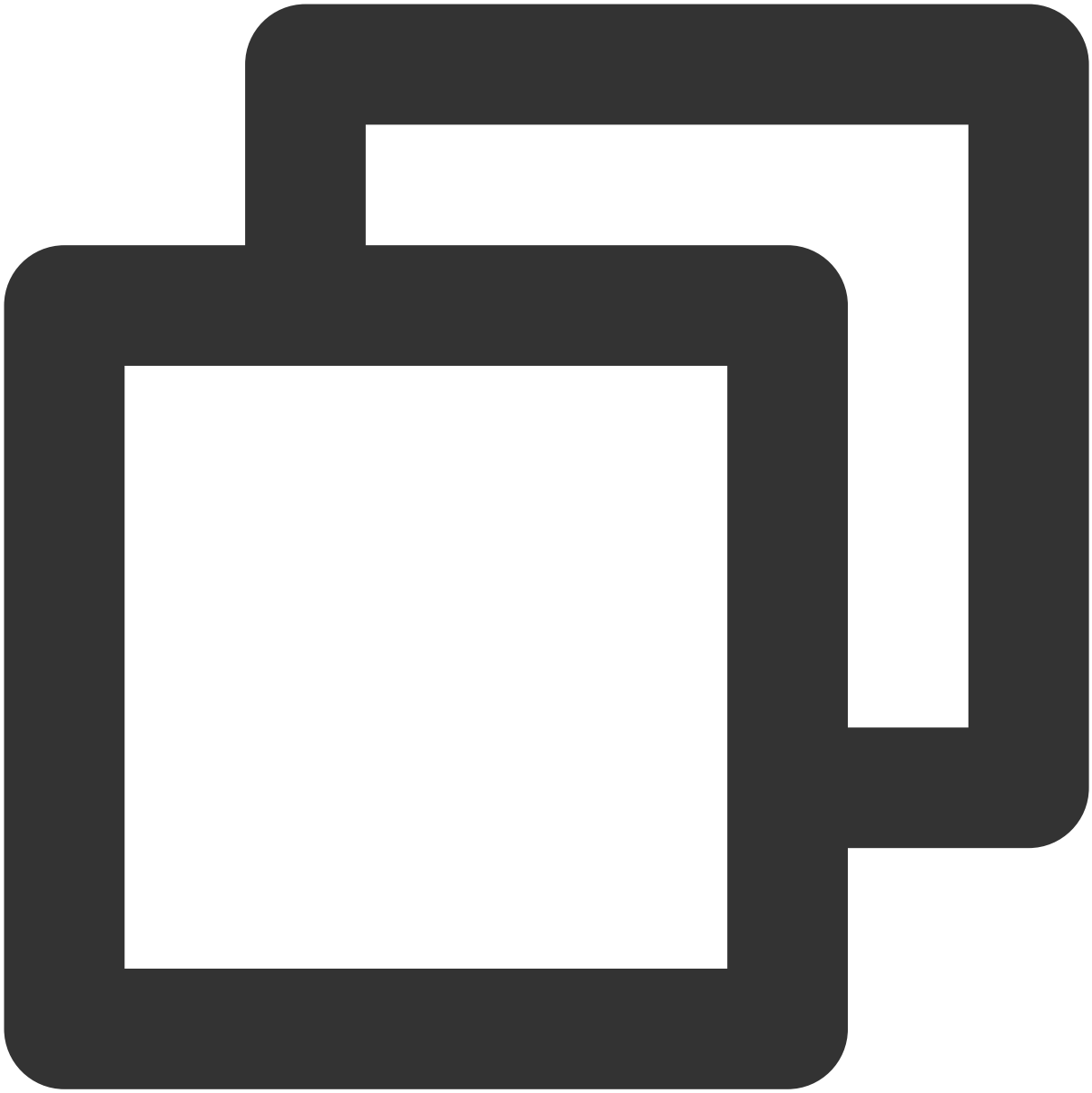
This API is used to query the information of a media file.

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
    Key: 'test.mp4',  /* Media file in bucket (required) */
    Query: {
```

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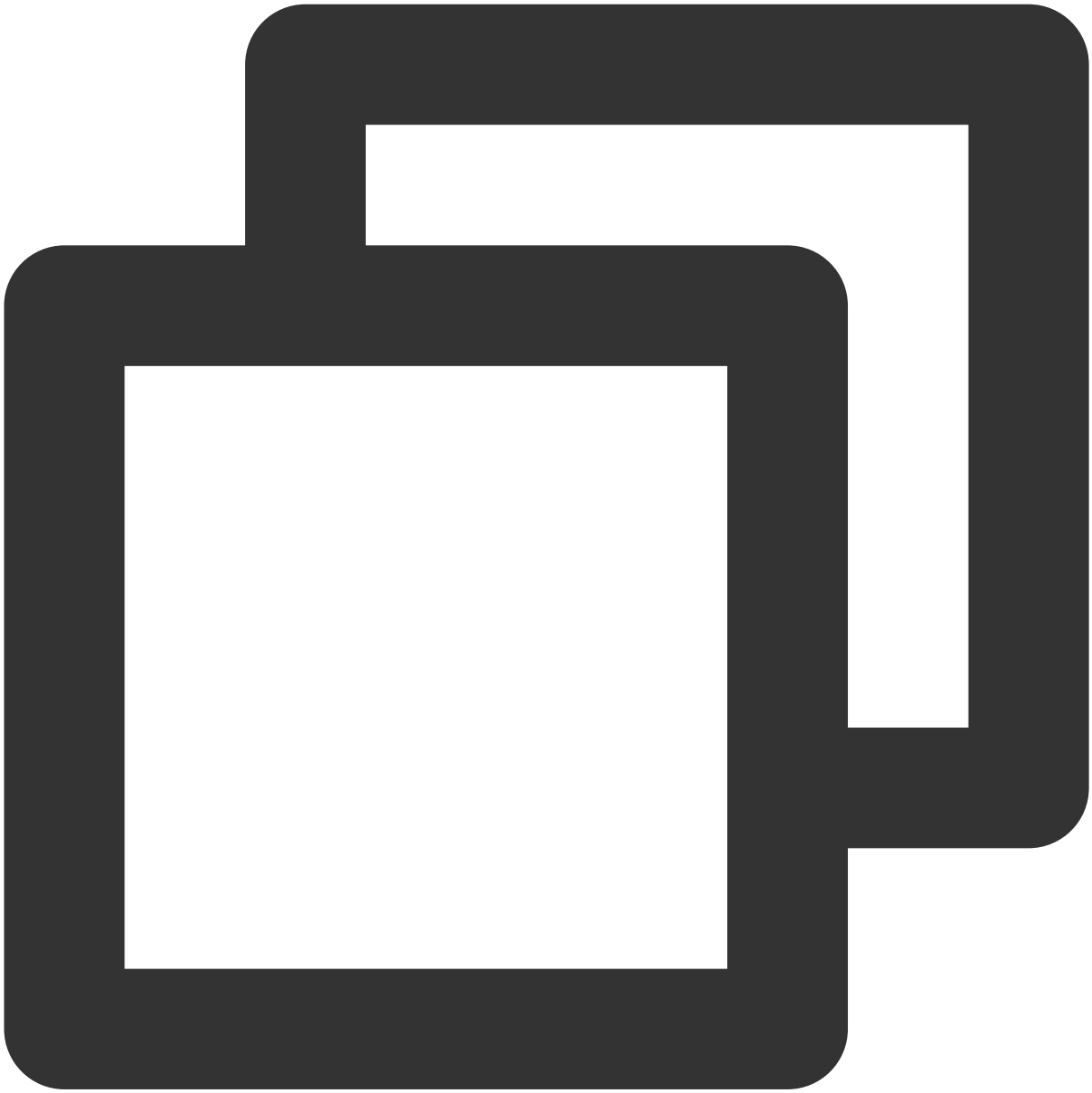
```
        'ci-process': 'videoinfo' /** Fixed value (required) */
    }
}, function (err, data) {
    console.log(err || data);
});
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Fixed value: mediabucket.	String	Yes
ci-process	Operation type, which is fixed at `videoinfo` .	String	Yes

Callback function description

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```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object

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data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200`, `403`, and `404`.	Number
- headers	Returned headers.	Object
- RequestId	Unique ID of the request.	String
- Response	Response result.	Object
- - MediaInfo	Media details.	Object
- - - Stream	Stream information.	Object
- - - - Video	Video information.	Container
- - - - - Index	Stream number.	Number
- - - - - CodecName	Codec format name.	String
- - - - - CodecLongName	Detailed name of the codec format	String
- - - - - CodecTimeBase	Codec timebase.	String
- - - - - CodecTagString	Codec tag name.	String
- - - - - CodecTag	Codec tag.	String
- - - - - Profile	Video codec profile.	String
- - - - - Height	Video height in px.	Number
- - - - - Width	Video width in px.	Number
- - - - - HasBFrame	Whether B-frames exist. 1: yes; 0: no.	Number
- - - - - RefFrames	Number of reference frames for video codec.	Number
- - - - - Sar	Sample aspect ratio.	String
- - - - - Dar	Display aspect ratio.	String
- - - - - PixFormat	Pixel format.	String

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- - - - - FieldOrder	Field order.	String
- - - - - Level	Video codec level.	Number
- - - - - Fps	Video frame rate.	Number
- - - - - AvgFps	Average frame rate.	String
- - - - - Timebase	Timebase.	String
- - - - - StartTime	Video start time in seconds.	Number
- - - - - Duration	Video duration in seconds.	Number
- - - - - Bitrate	Bitrate in Kbps.	Number
- - - - - NumFrames	Total number of frames.	Number
- - - - - Language	Language.	String
- - - - Audio	Audio information.	Container
- - - - - Index	Stream number.	Number
- - - - - CodecName	Codec format name.	String
- - - - - CodecLongName	Detailed name of the codec format.	String
- - - - - CodecTimeBase	Codec timebase.	String
- - - - - CodecTagString	Codec tag name.	String
- - - - - CodecTag	Codec tag.	String
- - - - - SampleFmt	Sample format.	String
- - - - - SampleRate	Sample rate.	Number
- - - - - Channel	Number of channels.	Number
- - - - -	Channel layout.	String

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ChannelLayout		
- - - - - Timebase	Timebase.	String
- - - - - StartTime	Audio start time in seconds.	Number
- - - - - Duration	Audio duration in seconds.	Number
- - - - - Bitrate	Bitrate in Kbps.	Number
- - - - - Language	Language.	String
- - - - Subtitle	Subtitles information.	Container
- - - - - Index	Stream number.	Number
- - - - - Language	Language. `und` indicates no query result.	String
- - - Format	Format information.	Object
- - - - NumStream	Number of streams (including videos, audios, and subtitles).	Number
- - - - NumProgram	Number of programs.	Number
- - - - FormatName	Container format name.	String
- - - - FormatLongName	Detailed name of the container format.	String
- - - - StartTime	Start time in seconds.	Number
- - - - Duration	Duration in seconds.	Number
- - - - Bitrate	Bitrate in Kbps.	Number
- - - - Size	Size in bytes.	Number

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Media Screenshot APIs

Last updated：2024-03-01 10:49:05

Overview

This document provides an overview of APIs and SDK code samples for media screenshot.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

Querying Screenshot

Feature description

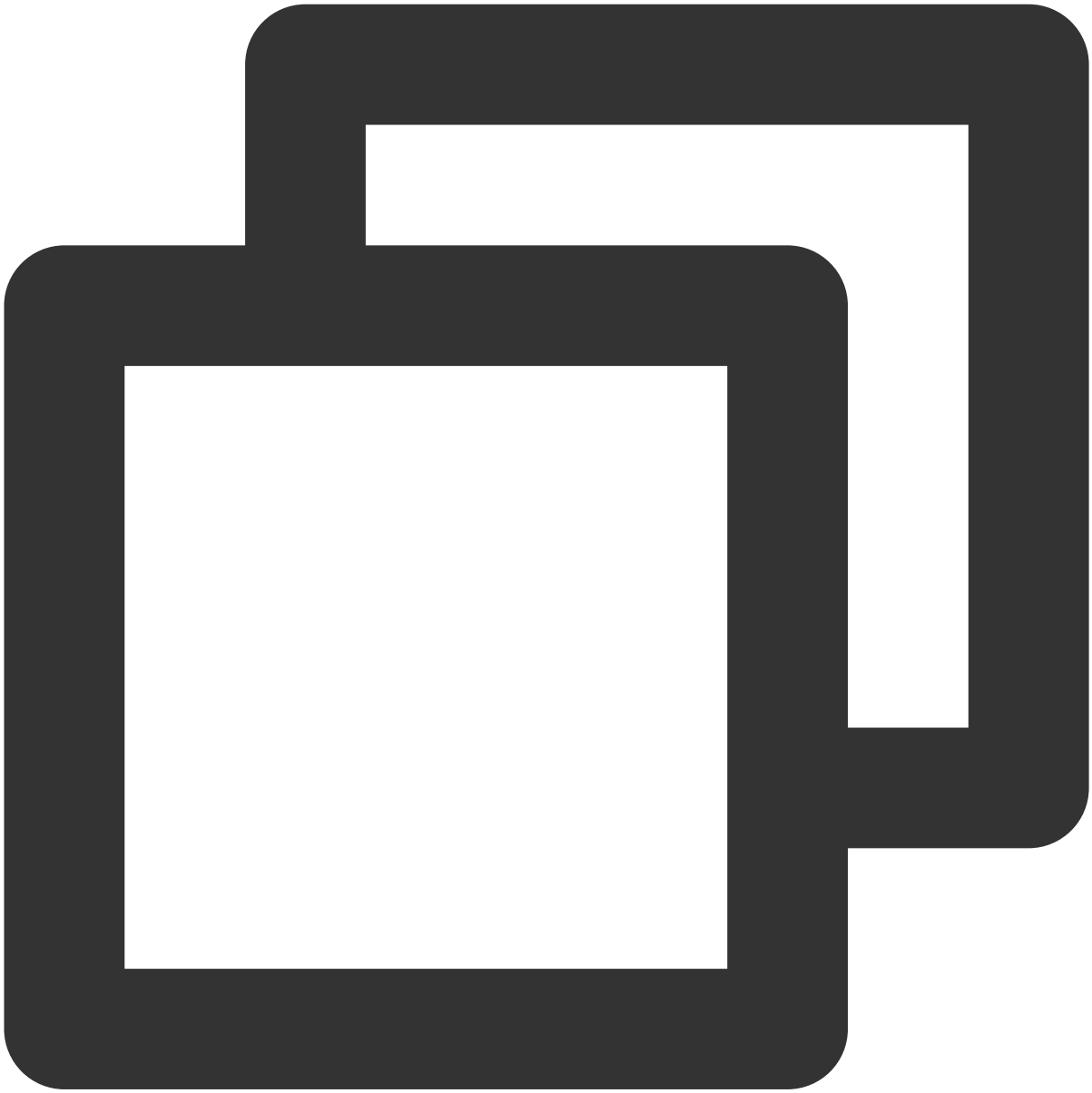
This API is used to query the screenshot of a media file at some time point.

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
    Key: 'test.mp4',  /* Media file in bucket (required) */
    Query: {
```

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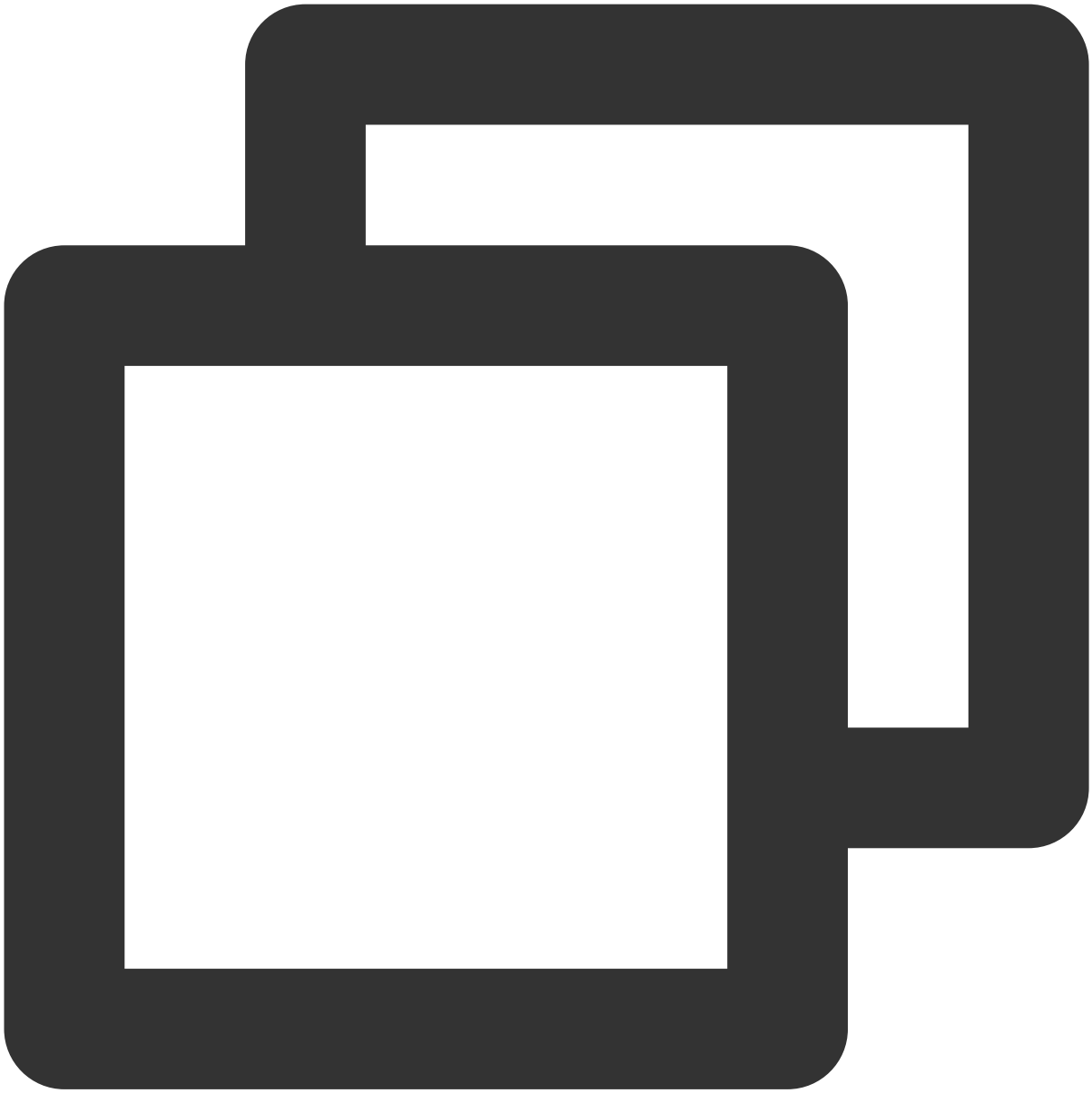
```
            'ci-process': 'snapshot', /** Fixed value (required) */
            time: 1, /** Screenshot time point in seconds (required) */
            // width: 0, /** Screenshot width (optional) */
            // height: 0, /** Screenshot height (optional) */
            // format: 'jpg', /** Screenshot format (optional). Valid values: jpg; png.
            // rotate: 'auto', /** Image rotation method (optional). Default value: aut
            // mode: 'exactframe', /** Frame capturing method (optional). Default value
        },
        RawBody: true,
    },
    function(err, data){
        console.log(err || data);
    });
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Object key (object name), which is the unique identifier of the object in the bucket. For more information, see Object Overview.	String	Yes
ci-process	Operation type, which is fixed at `snapshot` .	String	Yes
time	Screenshot time point in seconds.	Number	Yes
width	Screenshot width. Default value: 0.	Number	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.	Number	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

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Callback function description



```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number

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- headers	Returned headers.	Object
data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object
- RequestId	Unique ID of the request.	String
- Body	Returned file content, which is in string format by default.	String

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Content Moderation
Image Moderation

Last updated：2024-03-01 10:49:05

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for image moderation.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Description
Moderating single image	Scans existing data stored in COS for pornographic, illegal, and advertising images.
Batch moderating images	Moderates multiple images in batches.

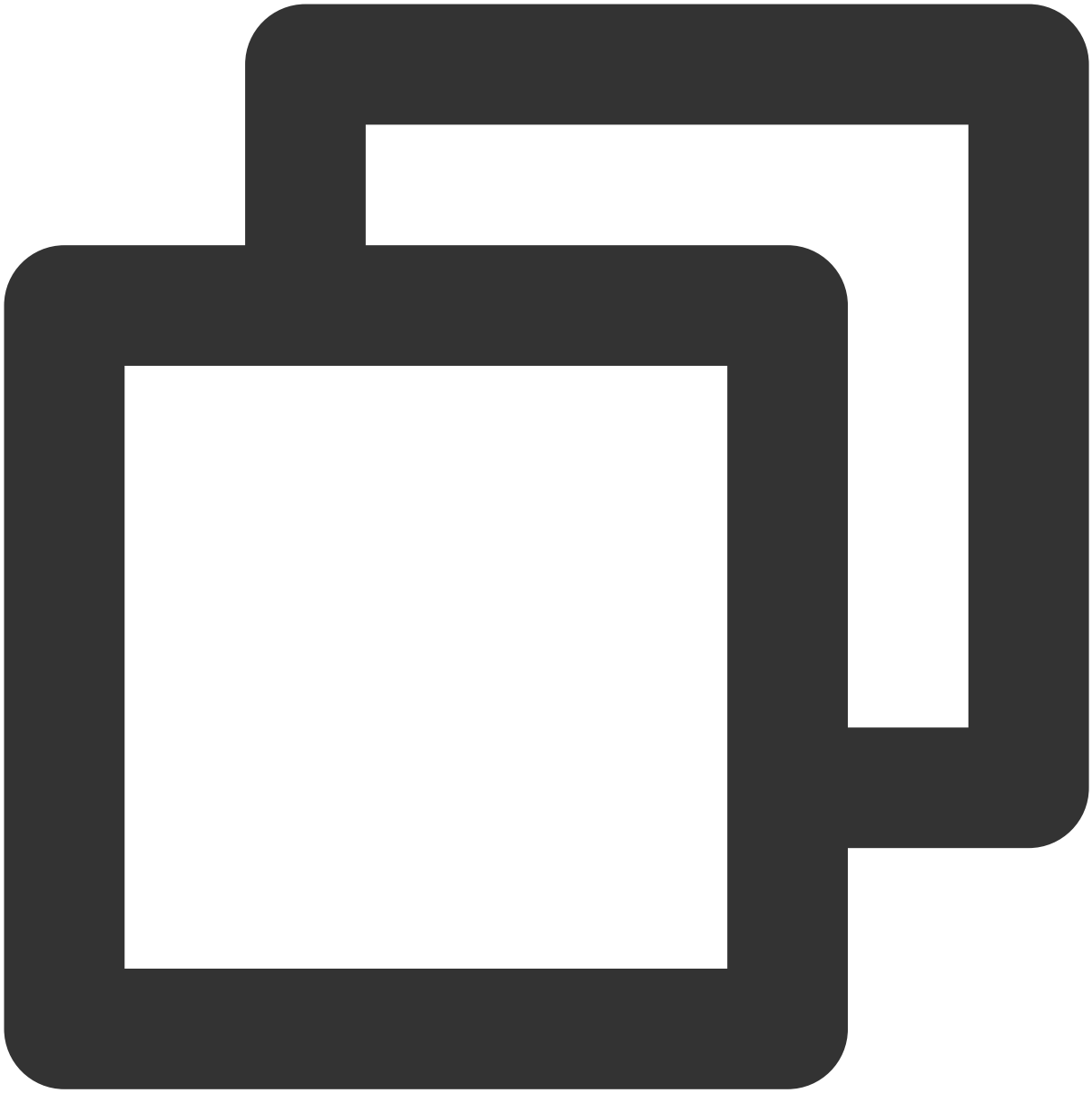
Single Image Moderation

Feature description

The existing data scan feature of image moderation leverages CI's persistent processing API to scan existing data stored in COS for pornographic, illegal, and advertising images.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function getImageAuditing() {
  cos.request({
      Bucket: config.Bucket,
      Region: config.Region,
      Method: 'GET',
      Key: '1.png',  /* Image file in the bucket (required) */
```

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```
        Query: {
            'ci-process': 'sensitive-content-recognition', /** Fixed value (required)
            'biz-type': '', /** Moderation type (optional) */
            'detect-type': 'porn,ads', /** Moderation policy (optional). If this para
            'detect-url': '', /** URL of any image accessible over the public network
            'interval': 5, /** Frame capturing interval for GIF image moderation (opt
            'max-frames': 5,  /** Maximum number of frames to be captured for GIF ima
            'large-image-detect': '0', /** Whether to compress the image first before
            'dataid': '123', /** Custom image ID (optional) */
        },
    },
    function(err, data){
        console.log(err || data);
    });
}
```

Parameter description

`Query` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
biz-type	Query	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console. For more information, see Setting Moderation Policy.	String	No
detect-type	Query	Moderation type. Valid values: `porn`, `ads`. You can specify multiple types and separate them by comma.	String	No
object-key	Query	Location of the image in the bucket.	String	Yes
detect-url	Query	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 will be no need to enter `ObjectKey`. Sample `detect-url`: http://www.example.com/abc.jpg	String	No
interval	Query	For GIF image moderation, you can use this parameter to configure the frame capturing interval. The default value is `5`, indicating to capture a	Int	No

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		frame every five frames starting from the first frame (included).		
max-frames	Query	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-image-detect	Query	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.	String	No
dataid	Query	Image ID. This field will return the original content in the result, which can contain up to 512 bytes.	String	No

Response description

For more information, see Single Image Moderation.

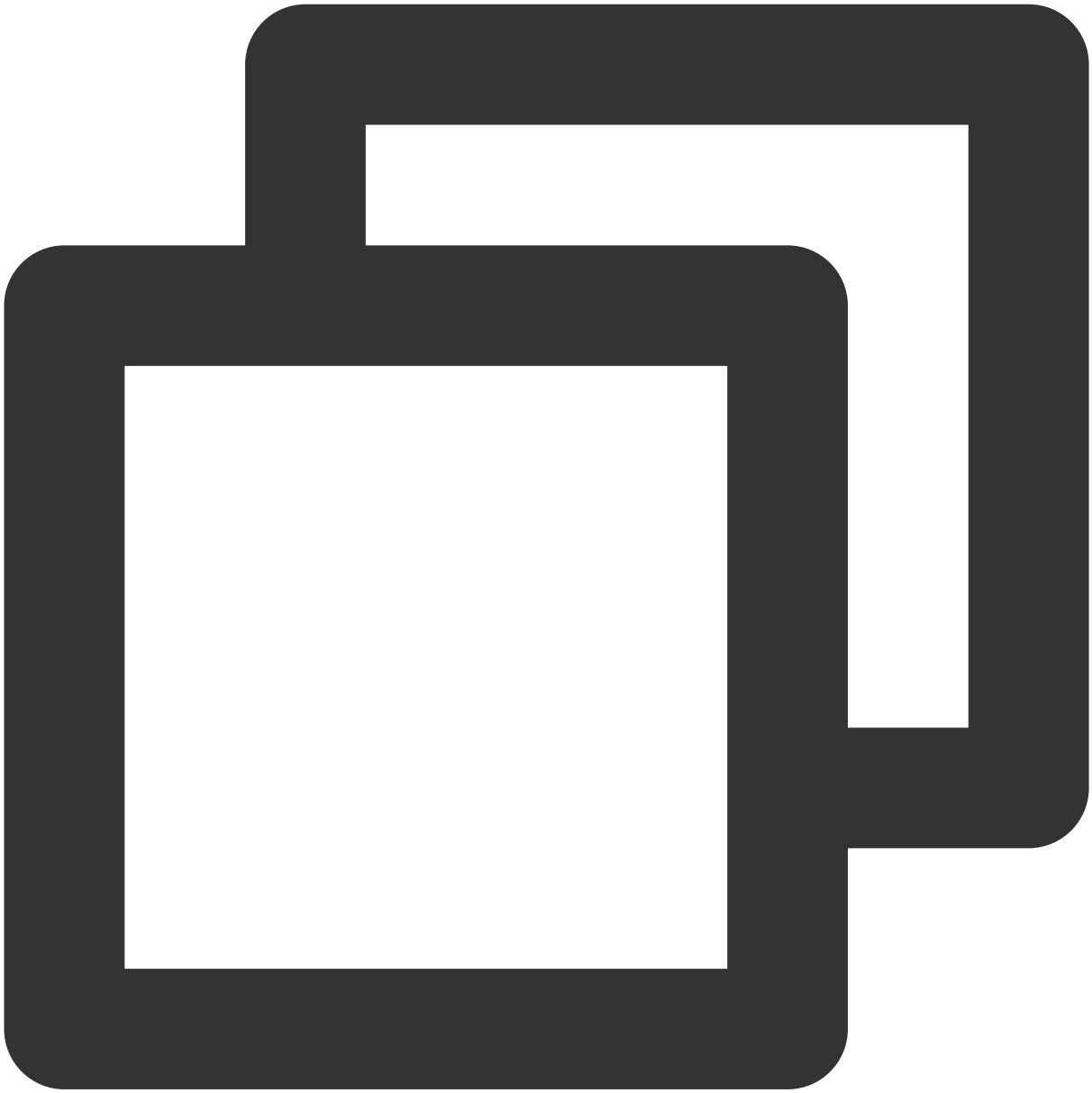
Batch Image Moderation

Feature description

The batch image moderation API adopts a sync POST request method. You can use this API to perform content moderation on multiple image files.

Sample request

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function postImagesAuditing() {
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/image/auditing';
  var body = COS.util.json2xml({
    Request: {
      Input: [{
```

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```
          Object: '1.png', /* Path of the image to be moderated in the bucket */
        }, {
          Object: 'a/6.png', /* Path of the image to be moderated in the bucket */
        }],
        Conf: {
          BizType: '', /* If this parameter is not specified, the default policy will
          DetectType: 'Porn' /* Checks for pornographic information only */
        }
      }
    });
    cos.request({
        Bucket: config.Bucket,
        Region: config.Region,
        Method: 'POST',
        Url: url,
        Key: '/image/auditing', /** Fixed value (required) */
        ContentType: 'application/xml', /** Fixed value (required) */
        Body: body
    },
    function(err, data){
        console.log(err || data);
    });
}
```

Parameter description

`request` has the following sub-nodes:

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

`Input` has the following sub-nodes:

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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`. Either `Object` or `Url` can be selected at a time.	String	No
Url	Request.Input	Full URL of the image file, such as `http://a-1250000.cos.ap-shanghai.myqcloud.com/image.jpg`. Either `Object` or `Url` can be selected at a time.	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 content in the result, which can contain up to 512 bytes.	String	No

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads`.	String	Yes
BizType	Request.Conf	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console. For more information, see Setting Moderation Policy.	String	No

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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 description

For more information, see Batch Image Moderation.

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Video Moderation

Last updated：2024-03-01 10:49:05

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Description
Submitting video moderation job	Submits video moderation job.
Querying video moderation job result	Queries the result of specified video moderation job.

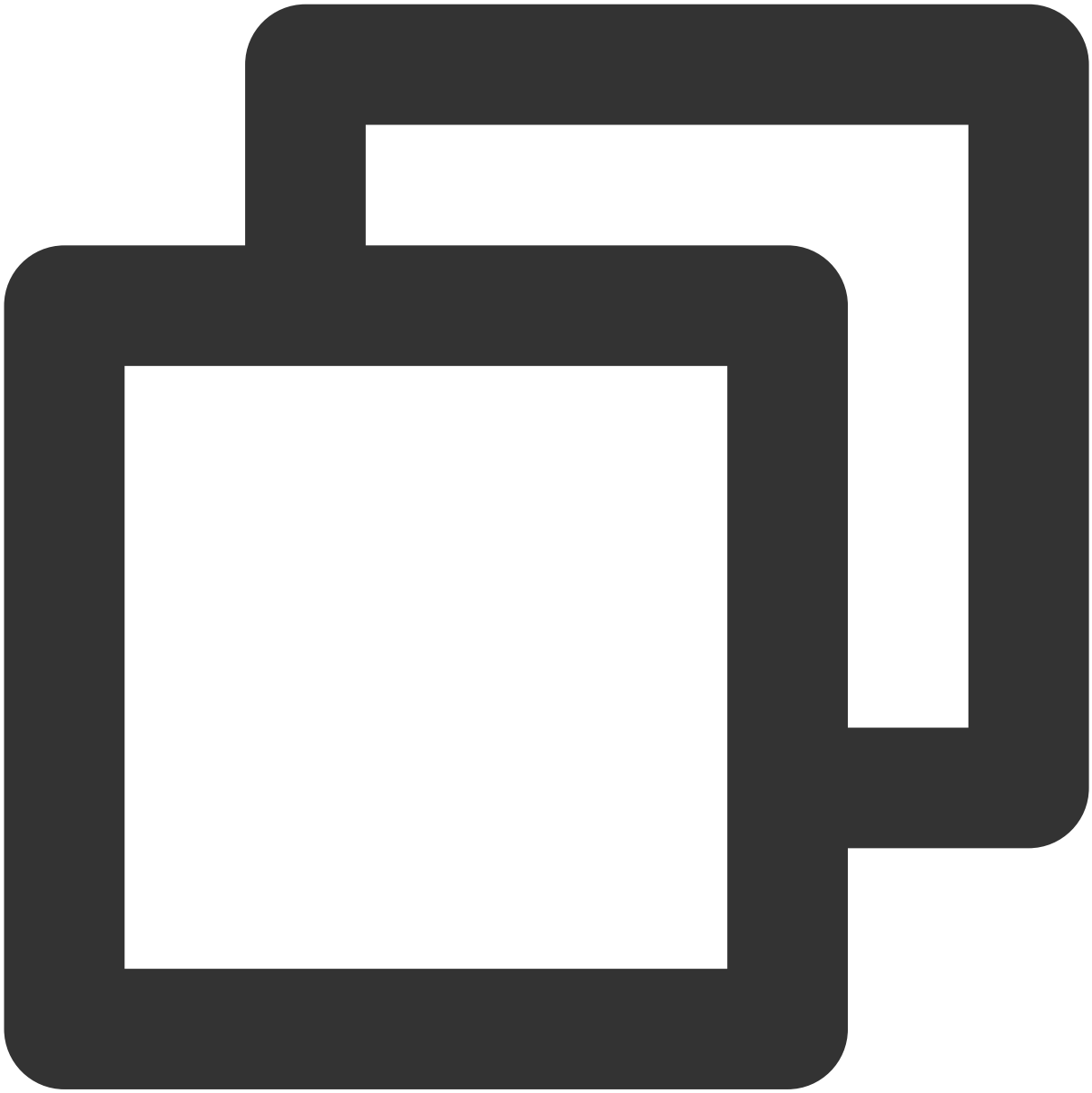
Submitting Video Moderation Job

Feature description

This API is used to submit a video moderation job.

Sample request

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function postVideoAuditing() {
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/video/auditing';
  var body = COS.util.json2xml({
    Request: {
      Input: {
```

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```
        Object: '1.mp4', /* Path of the video file to be moderated in the bucket */
      },
      Conf: {
        BizType: '',
        DetectType: 'Porn',
        Snapshot: {
          Count: 1000, // Number of frames captured
        },
        DetectContent: 1, // Whether to moderate the video sound. Valid values: `0`
      }
    }
  });
  cos.request({
      Bucket: config.Bucket,
      Region: config.Region,
      Method: 'POST',
      Url: url,
      Key: '/video/auditing', /** Fixed value (required) */
      ContentType: 'application/xml', /** Fixed value (required) */
      Body: body
  },
  function(err, data){
      console.log(err || data);
  });
}
```

Parameter description

`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	Yes
Url	Request.Input	Full URL of the video file, such as	String	No

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		`http://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/test.mp4` . Either `Object` or `Url` can be selected at a time.		

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads` .	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
BizType	Request.Conf	Moderation policy. If this parameter is not specified, the default policy will be used.	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

`Snapshot` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Mode	Request.Conf.Snapshot	Frame capturing mode. Valid values:	String	No

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		`Interval` (interval mode), `Average` (average mode), `Fps` (fixed frame rate mode). `Interval` mode: The `TimeInterval` and `Count` parameters take effect. If `Count` is set but `TimeInterval` is not, all frames will be captured to generate a total of `Count` images. `Average` mode: The `Count` parameter takes effect, indicating to capture a total of `Count` images at an average interval in the entire video. `Fps` mode: `TimeInterval` indicates how many frames to capture per second, and `Count` indicates how many frames to capture in total.		
Count	Request.Conf.Snapshot	The number of captured frames. Value range: (0, 10000].	String	No
TimeInterval	Request.Conf.Snapshot	Video frame capturing frequency. Value range: (0.000, 60.000] seconds. The value supports the float format, accurate to the millisecond.	Float	No

Response description

For more information, see Submitting Video Moderation Job.

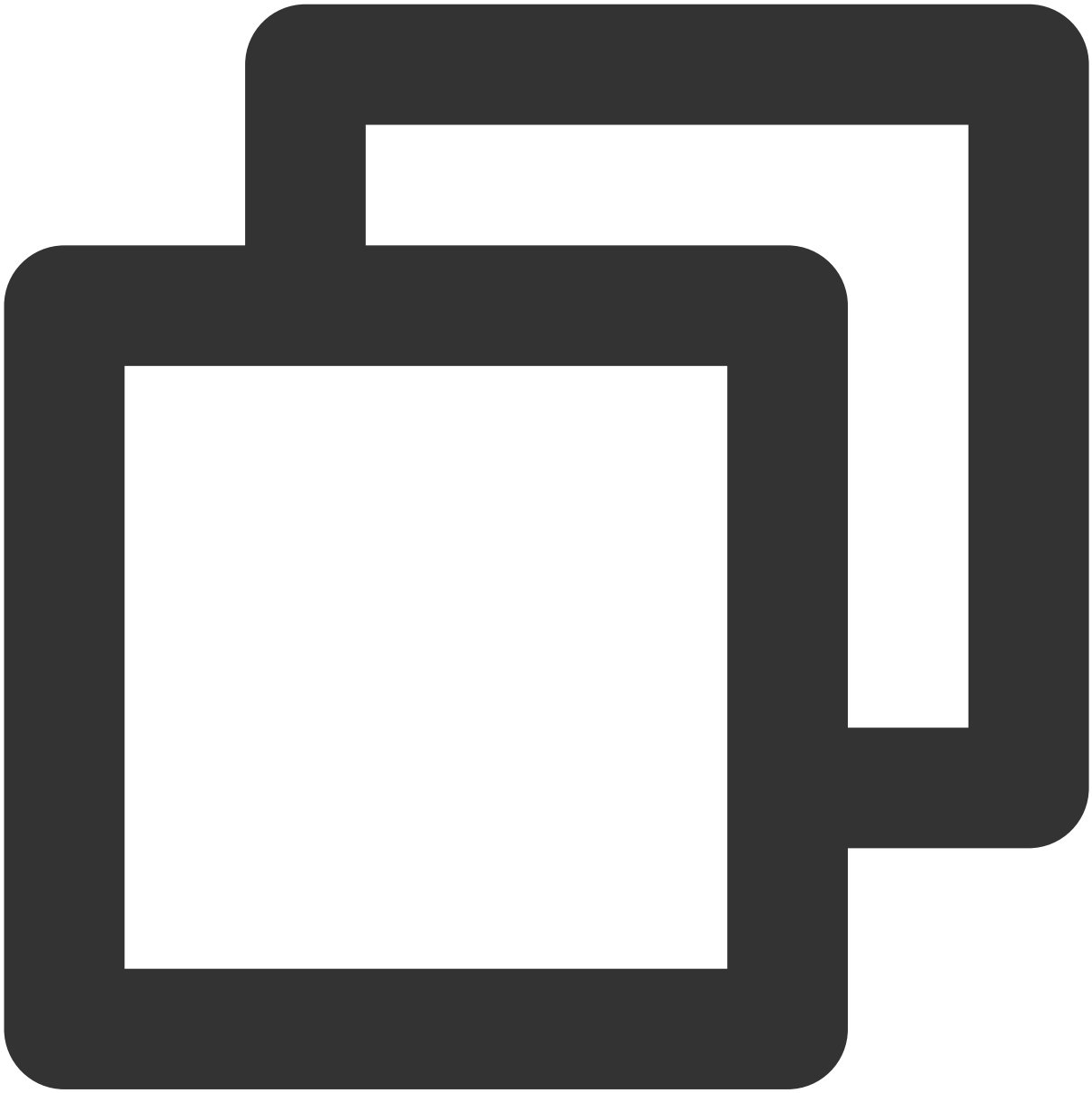
Querying Video Moderation Job Result

Feature description

This API is used to query the status and result of a video moderation job.

Sample request

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function getVideoAuditingResult() {
  var jobId = 'av14d9ca15af3a11eca0d6525400d88xxx'; // `jobId`, which is returned a
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/video/auditing/' + jobId;
  cos.request({
      Bucket: config.Bucket,
```

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```
        Region: config.Region,
        Method: 'GET',
        Key: '/video/auditing/' + jobId,
        Url: url,
    },
    function(err, data){
        console.log(err || data);
    });
}
```

Parameter description

Parameter	Description	Type	Required
jobId	ID of the job to be queried.	String	Yes

Response description

For more information, see Querying Video Moderation Job Result.

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Audio Moderation

Last updated：2024-03-01 10:49:05

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for audio moderation.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Description
Submitting audio moderation job	Submits audio moderation job.
Querying audio moderation job result	Queries the result of specified audio moderation job.

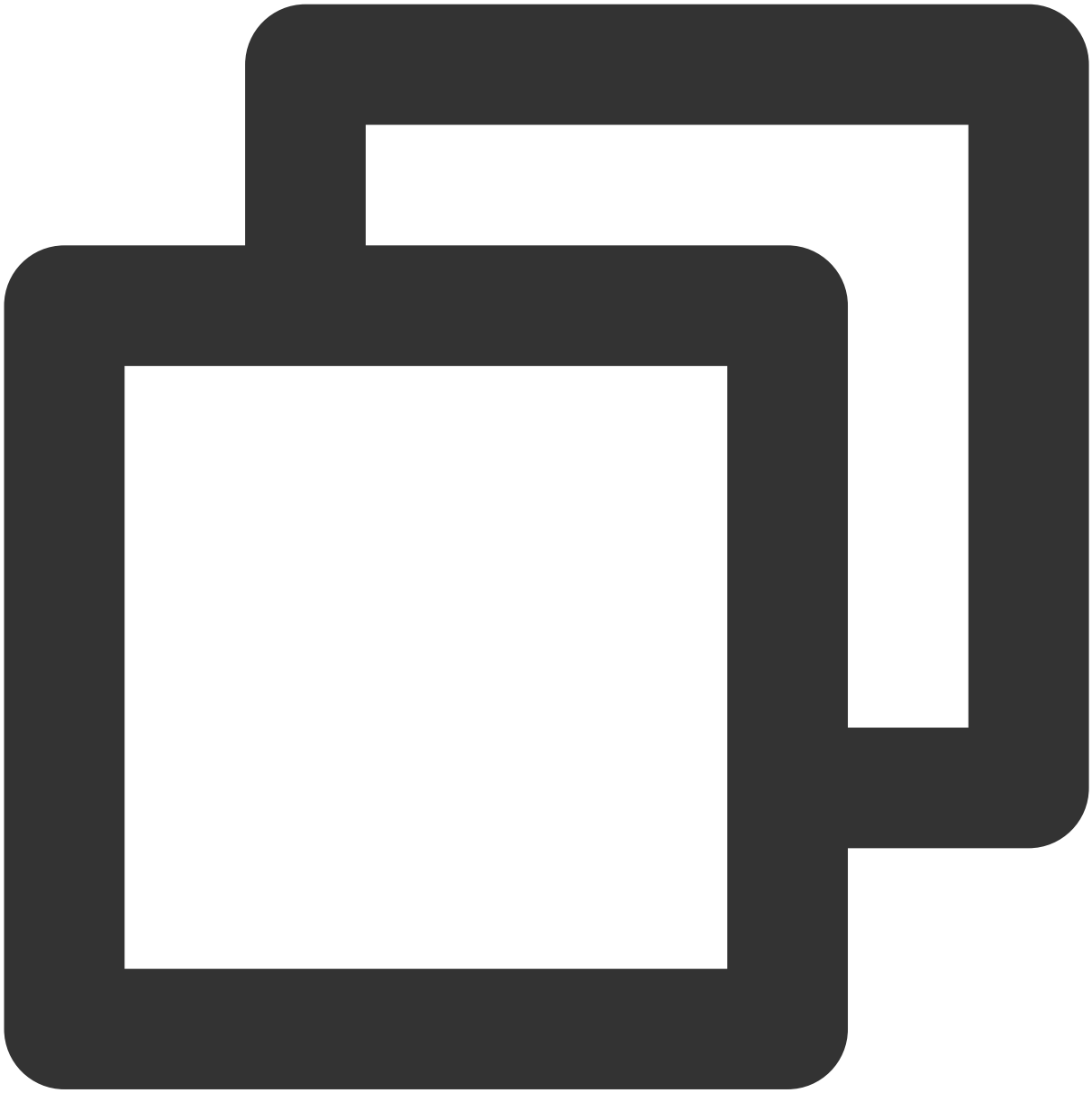
Submitting Audio Moderation Job

Feature description

This API is used to submit an audio moderation job.

Sample request

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function postAudioAuditing() {
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/audio/auditing';
  var body = COS.util.json2xml({
    Request: {
      Input: {
```

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```
          Object: '1.mp3', /* Path of the audio file to be moderated in the bucket */
        },
        Conf: {
          BizType: '',
          DetectType: 'Porn',
        }
      }
    });
    cos.request({
        Bucket: config.Bucket,
        Region: config.Region,
        Method: 'POST',
        Url: url,
        Key: '/audio/auditing', /** Fixed value (required) */
        ContentType: 'application/xml', /** Fixed value (required) */
        Body: body
    },
    function(err, data){
        console.log(err || data);
    });
}
```

Parameter description

`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-`	String	No

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		`shanghai.myqcloud.com/audio.mp3` . Either `Object` or `Url` can be selected at a time.		

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography), `Ads` (advertising), `Illegal` (illegal), and `Abuse` (abusive). You can pass in multiple types and separate them by comma, such as `Porn,Ads` .	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
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
BizType	Request.Conf	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console. For more information, see Setting Moderation Policy.	String	No

Response description

For more information, see Submitting Audio Moderation Job.

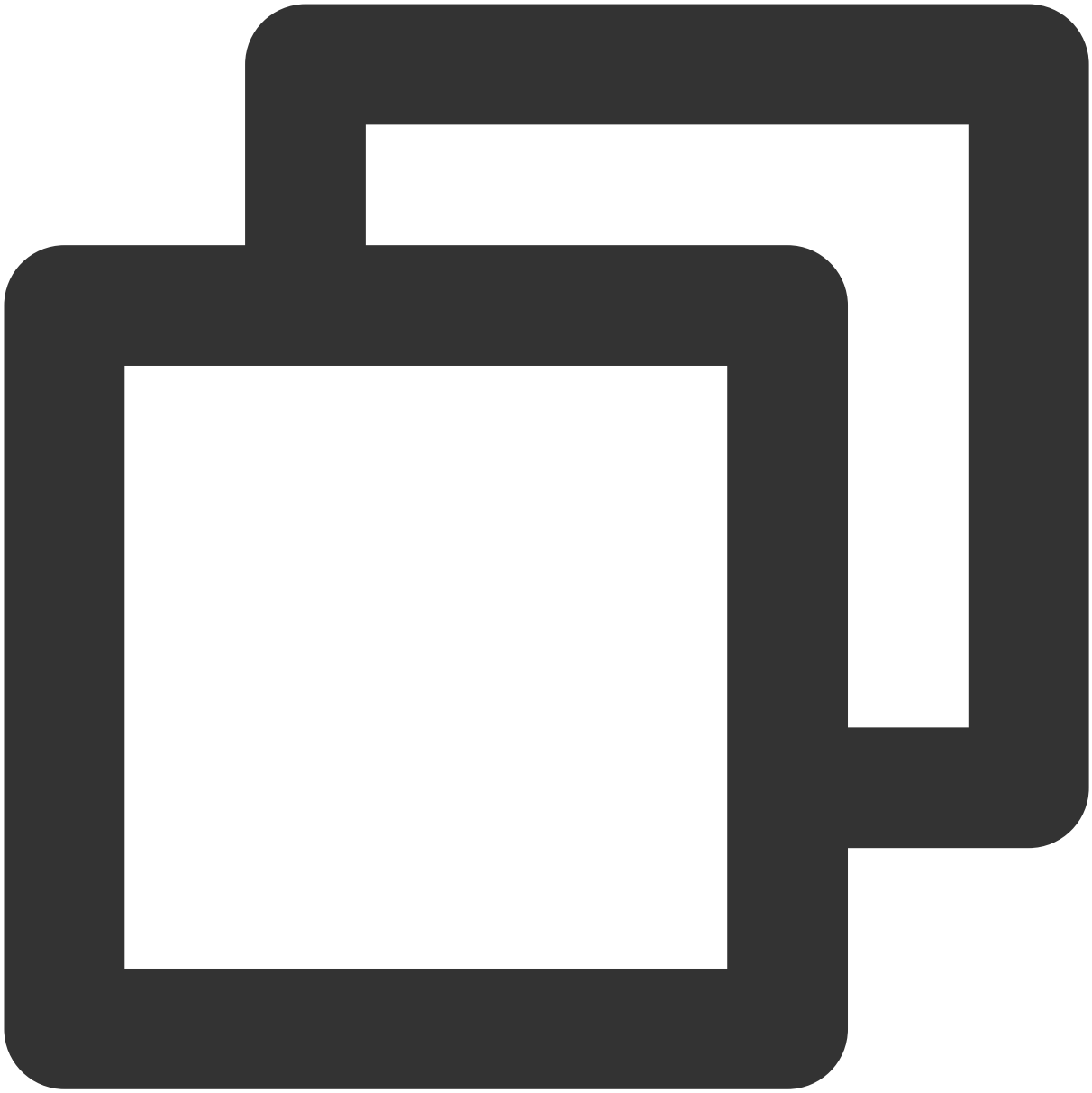
Querying Audio Moderation Job

Feature description

This API is used to query the status and result of an audio moderation job.

Sample request

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function getAudioAuditingResult() {
  var jobId = 'sa0c28d41daff411ecb23352540078cxxx'; // `jobId`, which is returned a
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/audio/auditing/' + jobId;
  cos.request({
      Bucket: config.Bucket,
```

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```
        Region: config.Region,
        Method: 'GET',
        Key: '/audio/auditing/' + jobId,
        Url: url,
    },
    function(err, data){
        console.log(err || data);
    });
}
```

Parameter description

Parameter	Description	Type	Required
jobId	ID of the job to be queried.	String	Yes

Response description

For more information, see Querying Audio Moderation Job Result.

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Text Moderation

Last updated：2024-03-05 14:21:26

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for text moderation.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Description
Submitting text moderation job	Submits text moderation job.
Querying text moderation job result	Queries the result of specified text moderation job.

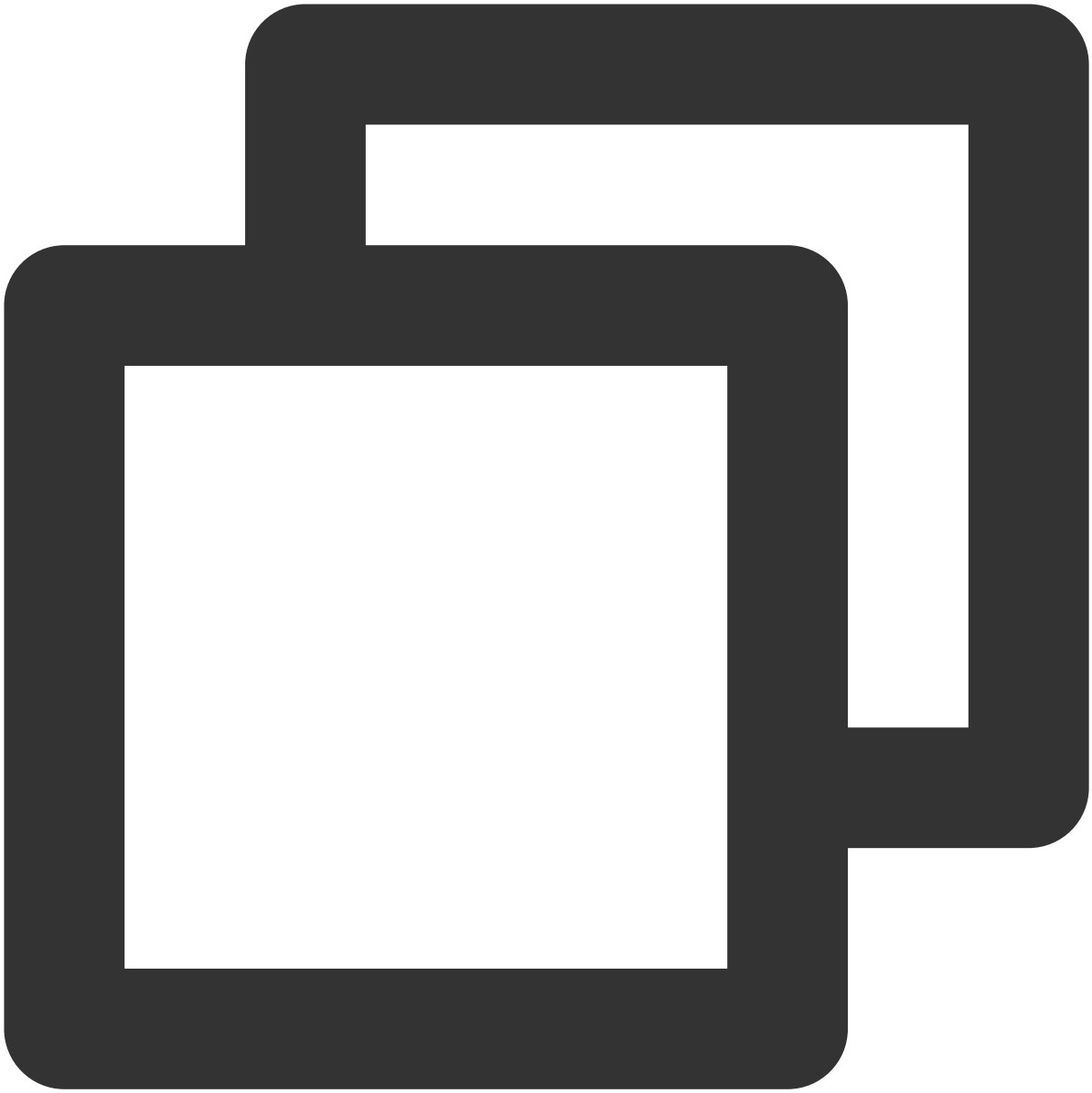
Submitting Text Moderation Job

Feature description

This API is used to submit a text moderation job.

Sample request

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function postTextAuditing() {
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/text/auditing';
  var body = COS.util.json2xml({
    Request: {
      Input: {
```

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```
          Object: 'hello.txt', /* Path of the text file to be moderated in the bucket
        },
        Conf: {
          BizType: '',
          DetectType: 'Porn',
        }
      }
    });
    cos.request({
        Bucket: config.Bucket,
        Region: config.Region,
        Method: 'POST',
        Url: url,
        Key: '/text/auditing', /** Fixed value (required) */
        ContentType: 'application/xml', /** Fixed value (required) */
        Body: body
    },
    function(err, data){
        console.log(err || data);
    });
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Text 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 text file stored in the current COS bucket; for example, if the file is `test.txt` in the `test` directory, then the filename is `test/test.txt` .	String	No

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		Only text files in UTF-8 and GBK encodings are supported, and the file size cannot exceed 1 MB.		
Content	Request.Input	When the input content is plain text, it needs to be Base64-encoded first. The length of the original text before encoding cannot exceed 10,000 UTF-8 characters. If the length limit is exceeded, the API will report an error.	String	No

Note:

`Object` and `Content` cannot be entered at the same time.

If `Object` is selected, the moderation result will be returned asynchronously, which can be obtained through the API for querying text moderation job result.

If `Content` is selected, the moderation result will be returned synchronously, which can be viewed in the `TextAuditingResponse` response body.

Currently, only Chinese, English, and Arabic numerals can be detected and moderated.

`Conf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography), `Ads` (advertising), `Illegal` (illegal), and `Abuse` (abusive). You can pass in multiple types and separate them by comma, such as `Porn,Ads` .	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
BizType	Request.Conf	Moderation policy. If this parameter is not specified, the default policy will be used. The policy can be configured in the console. For more information, see Setting Moderation Policy.	String	No

Response description

For more information, see Submitting Text Moderation Job.

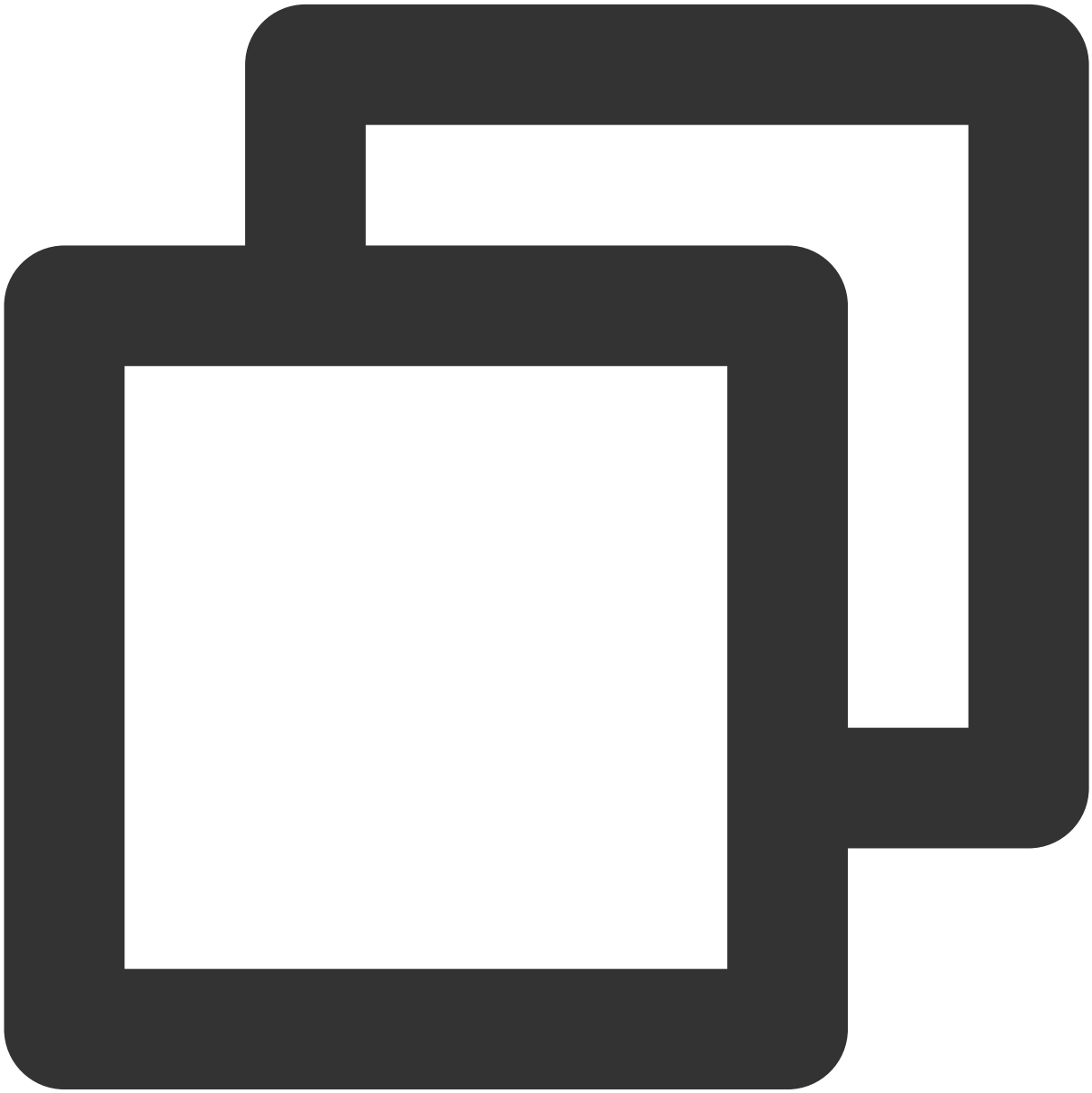
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Querying Text Moderation Job

Feature description

This API is used to query the status and result of a text moderation job.

Sample request



```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
```

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```
  Region: 'COS_REGION', /* Bucket region (required) */
};
function getTextAuditingResult() {
  var jobId = 'st8d88c664aff511ecb23352540078cxxx'; // `jobId`, which is returned a
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/text/auditing/' + jobId;
  cos.request({
      Bucket: config.Bucket,
      Region: config.Region,
      Method: 'GET',
      Key: '/text/auditing/' + jobId,
      Url: url,
  },
  function(err, data){
      console.log(err || data);
  });
}
```

Parameter description

Parameter	Description	Type	Required
jobId	ID of the job to be queried.	String	Yes

Response description

For more information, see Querying Text Moderation Job Result.

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Webpage Moderation

Last updated：2024-03-01 10:49:05

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for webpage moderation.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Description
Submitting webpage moderation job	Submits webpage moderation job.
Querying webpage moderation job result	Queries the result of specified webpage moderation job.

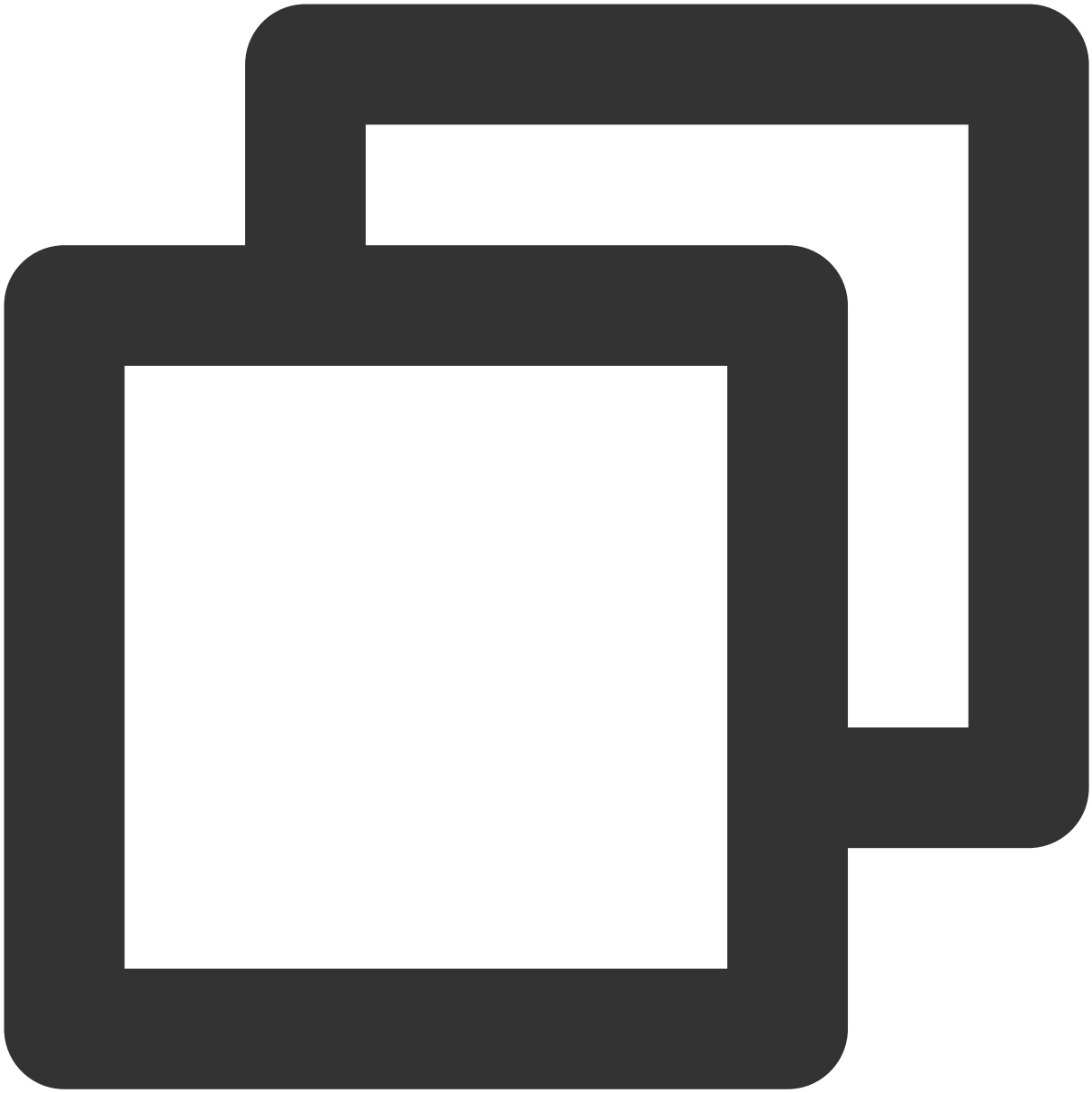
Submitting Webpage Moderation Job

Feature description

This API is used to submit a webpage moderation job.

Sample request

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function postWebpageAuditing() {
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/webpage/auditing';
  var body = COS.util.json2xml({
    Request: {
      Input: {
```

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```
        Url: 'https://cloud.tencent.com/', // The resource stored in COS. The moder
      },
      Conf: {
        BizType: '',
        DetectType: 'Porn,Ads',
      }
    }
  });
  cos.request({
      Bucket: config.Bucket,
      Region: config.Region,
      Method: 'POST',
      Url: url,
      Key: '/webpage/auditing', /** Fixed value (required) */
      ContentType: 'application/xml', /** Fixed value (required) */
      Body: body
  },
  function(err, data){
      console.log(err || data);
  });
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	None	Webpage moderation configuration.	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Input	Request	Webpage 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
Url	Request.Input	Full URL of the webpage, such as `http://www.test.com`.	String	Yes

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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
DetectType	Request.Conf	The scene to be moderated, such as `Porn` (pornography) and `Ads` (advertising). You can pass in multiple types and separate them by comma, such as `Porn,Ads`.	String	Yes
Callback	Request.Conf	Callback address, which must start with	String	No

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		`http://` or `https://` .		
ReturnHighlightHtml	Request.Conf	This parameter specifies whether to highlight the non-compliant text on the webpage. When the result is queried or called back, this parameter decides whether to return the highlighted HTML content. Valid values: `true` , `false` . Default value: `false` .	Boolean	No

Response description

For more information, see Submitting Webpage Moderation Job.

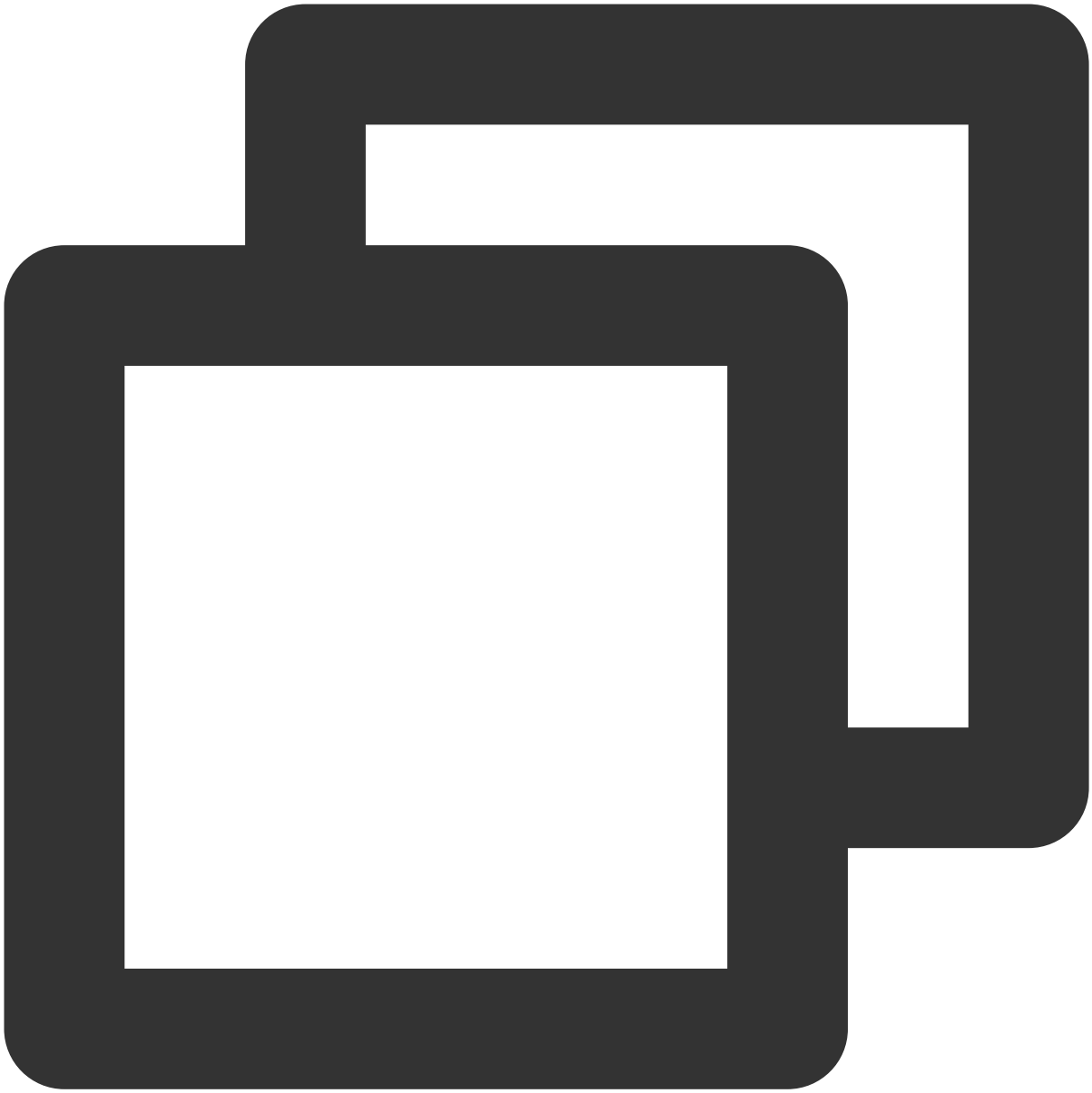
Querying Webpage Moderation Job Result

Feature description

This API is used to query the status and result of a webpage moderation job.

Sample request

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
function getWebpageAuditingResult() {
  var jobId = 'shce868019aff611ecb1155254009a4xxx'; // `jobId`, which is returned a
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/webpage/auditing/' + jobId;
  cos.request({
      Bucket: config.Bucket,
```

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```
        Region: config.Region,
        Method: 'GET',
        Key: '/webpage/auditing/' + jobId,
        Url: url,
    },
    function(err, data){
        console.log(err || data);
    });
}
```

Parameter description

Parameter	Description	Type	Required
jobId	ID of the job to be queried.	String	Yes

Response description

For more information, see Querying Webpage Moderation Job Result.

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File Processing
File Decompression

Last updated：2024-03-01 10:49:05

Overview

This document provides an overview of APIs and SDK code samples for file decompression in CI.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Description
Submitting a file decompression job	Creates a file decompression job.
Querying the file decompression result	Queries a file decompression job.

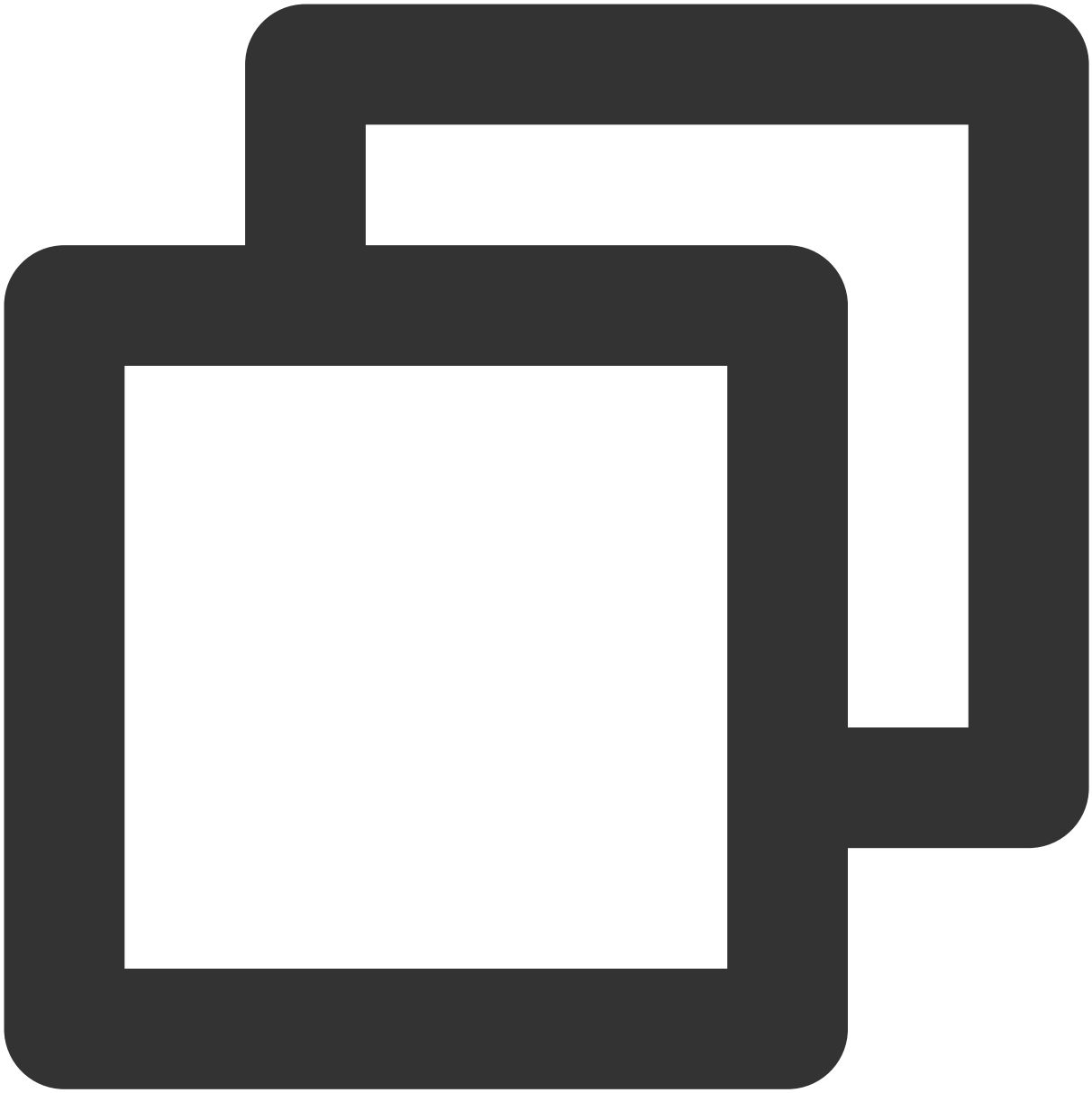
Submitting a File Decompression Job

Feature description

This API is used to submit a job to perform file decompression and asynchronously return decompressed files.

Sample code

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```
function postFileUnCompressTask() {
  var config = {
    // Replace with your own bucket information
    Bucket: 'examplebucket-1250000000', /* Bucket. Required */
    Region: 'COS_REGION',     /* Bucket region. Required */
  };
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com/file_jobs';
  var url = 'https://' + host;
  var body = COS.util.json2xml({
    Request: {
      Tag: 'FileUncompress', // Required
```

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```
        Input: {
          Object: 'compressed.zip', // Filename, which is the full name of the file i
        },
        Operation: {
          FileUncompressConfig: {
            Prefix: '', // Prefix of the input file after decompression. If this para
            PrefixReplaced: '0', // Whether to replace the prefix of the directory of
          },
          Output: {
            Bucket: config.Bucket, // Bucket where the decompressed files are stored
            Region: config.Region, // Region of the bucket where the decompressed fil
          },
        },
        // QueueId: '', // ID of the queue where the job is in
        // CallBack: 'http://callback.demo.com', // Job callback address
        // CallBackFormat: 'JSON', // Job callback format
        // CallBackType: 'Url', // Job callback type, which can be `Url` (default) or
      }
    });
    cos.request({
        Method: 'POST',
        Key: 'file_jobs',
        Url: url,
        Body: body,
        ContentType: 'application/xml',
    },
    function(err, data){
        console.log(err || data);
    });
}
postFileUnCompressTask();
```

Parameter description

`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

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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
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure, 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
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.	String	No

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		If this parameter is left empty, the file is stored in the root directory of the bucket by default.		
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	String	No

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		compressed package. Default value: `0` .		

Notes:

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` .

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 description

For more information, see Submitting a File Decompression Job.

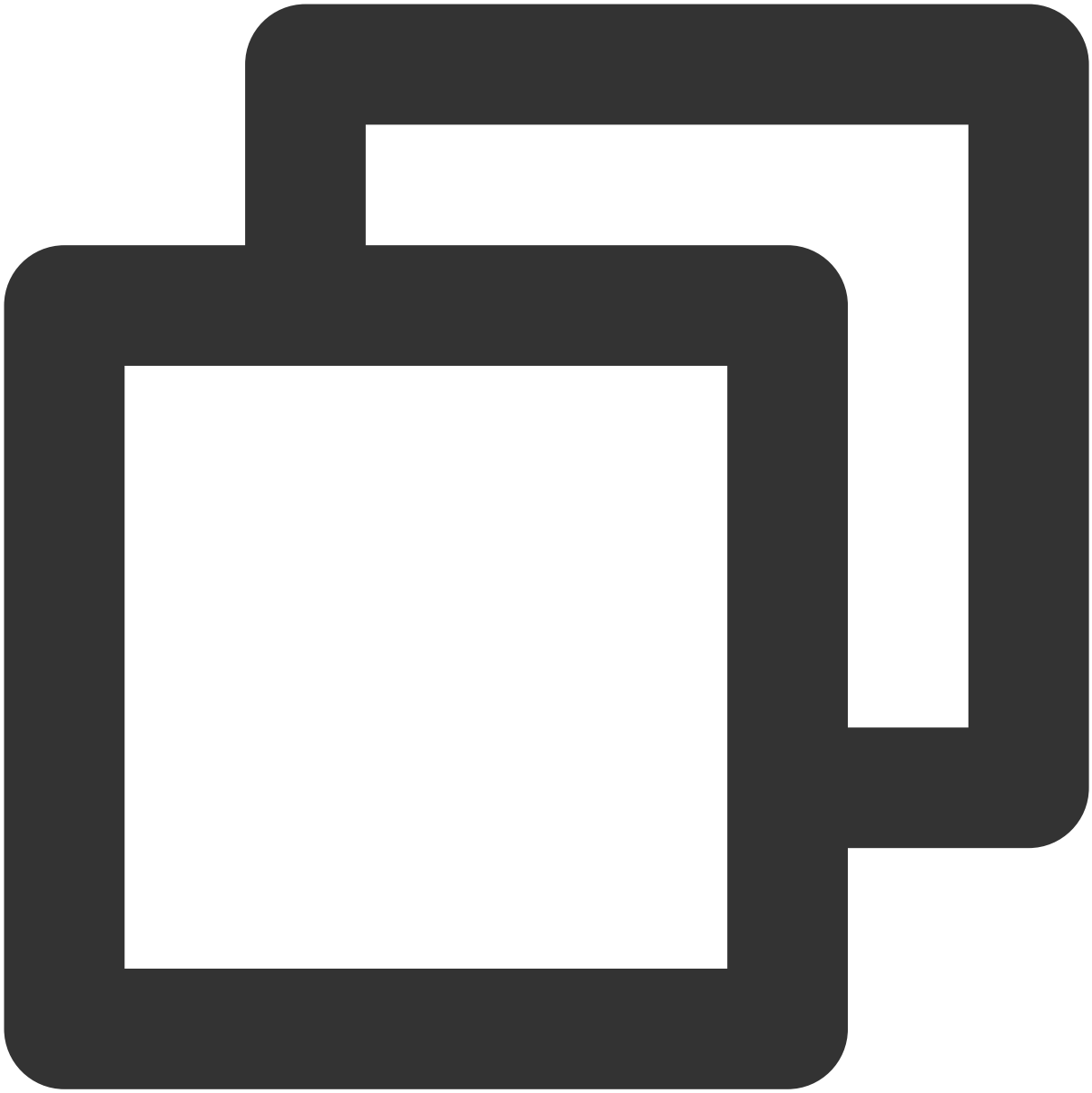
Querying File Decompression Result

Feature description

This API is used to query the details of a file processing job by job ID.

Sample code

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```
function getFileUnCompressTask() {
  var config = {
    // Replace with your own bucket information
    Bucket: 'examplebucket-1250000000', /* Bucket. Required */
    Region: 'COS_REGION',     /* Bucket region. Required */
  };
  var jobId = 'xxxxxx'; // After the file decompression job is submitted, its `jobI
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com/file_jobs/' +
  var url = 'https://' + host;
  cos.request({
    Method: 'GET',
```

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```
    Key: 'file_jobs/' + jobId,
    Url: url,
  },
  function(err, data){
      console.log(err || data);
  });
}
getFileUnCompressTask();
```

Parameter description

Parameter	Description	Type	Required
jobId	ID of the job to be queried.	String	Yes

Response description

For more information, see Querying File Decompression Result.

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Multi-File Zipping

Last updated：2024-03-01 10:49:05

Overview

This document provides an overview of APIs and SDK code samples for file zipping in CI.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Description
Submitting a multi-file zipping job	Creates a multi-file zipping job.
Querying the multi-file zipping result	Queries the result of a specified multi-file zipping job.

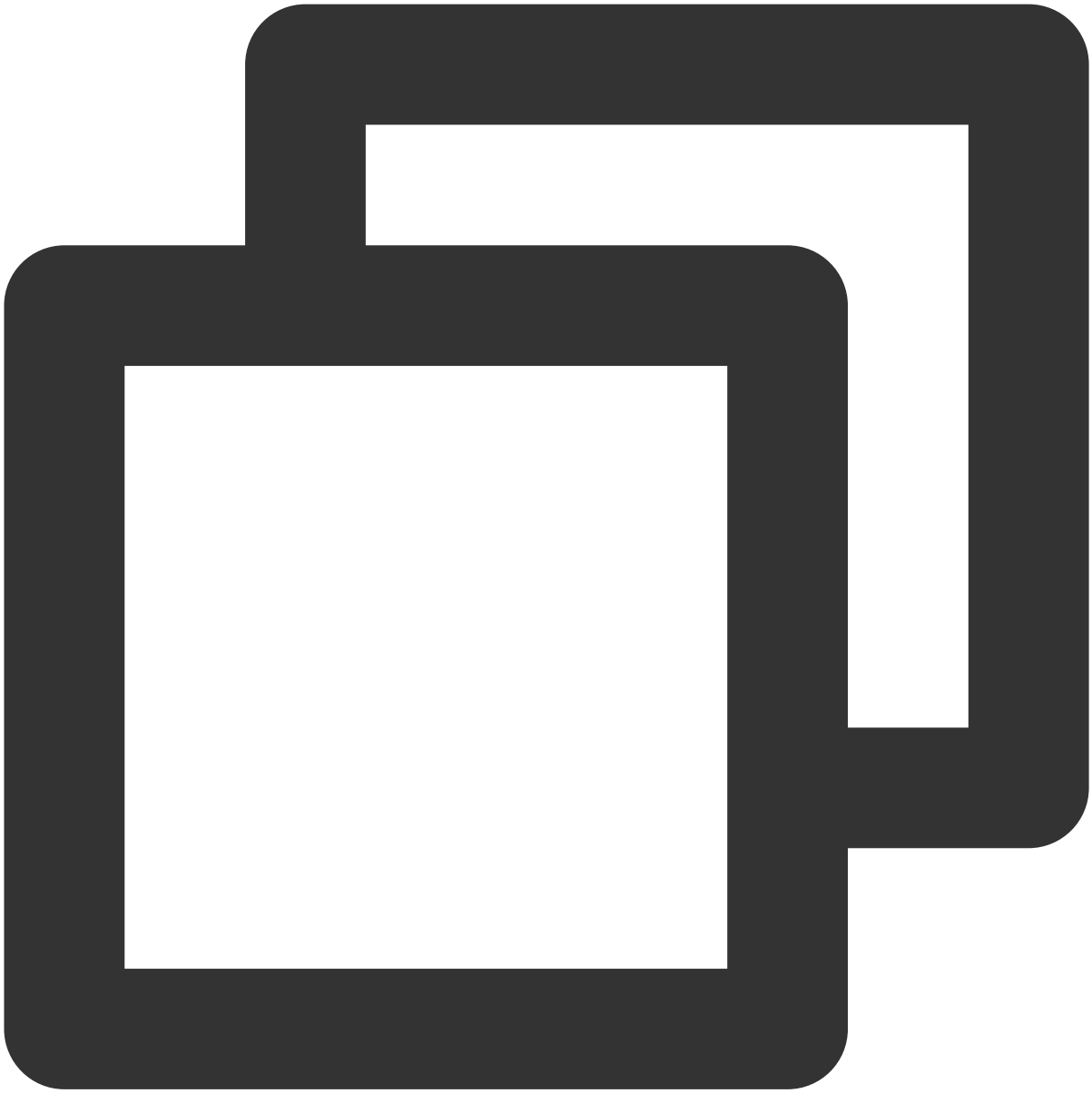
Submitting a Multi-File Zipping Job

Feature description

The multi-file zipping feature uses a 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.

Sample code

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```
function postFileCompressTask() {
  var config = {
    // Replace with your own bucket information
    Bucket: 'examplebucket-1250000000', /* Bucket. Required */
    Region: 'COS_REGION',     /* Bucket region. Required */
  };
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com/file_jobs';
  var url = 'https://' + host;
  var body = COS.util.json2xml({
    Request: {
      Tag: 'FileCompress', // Required
```

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```
      Operation: {
        FileCompressConfig: {
          Flatten: '0', // Whether to remove the directory structure of the origina
          Format: 'zip', // Zipping type. Valid values: `zip`, `tar`, `tar.gz`.
          // Only one of UrlList, Prefix, and Key can be selected. They cannot all
          // UrlList: '', // Object address of the index file
          Prefix: 'testCompress/', // Directory prefix
          // Key: [], // Multiple files in the bucket can be zipped. The number of
        },
        Output: {
          Bucket: config.Bucket, // Bucket where the compressed file is stored
          Region: config.Region, // Region of the bucket where the compressed file
          Object: 'testCompress/compressed.zip', // Name of the compressed file
        },
        UserData: '',
      },
      // QueueId: '', // ID of the queue where the job is in
      // CallBack: 'http://callback.demo.com', // Job callback address
      // CallBackFormat: 'JSON', // Job callback format
      // CallBackType: 'Url', // Job callback type, which can be `Url` (default) or
    }
  });
  cos.request({
      Method: 'POST',
      Key: 'file_jobs',
      Url: url,
      Body: body,
      ContentType: 'application/xml',
  },
  function(err, data){
      console.log(err || data);
  });
}
postFileCompressTask();
```

Parameter description

`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

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QueueId	Request	ID of the queue where the job is in.	String	No
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
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure, 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.	String

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		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`.	
Format	Request.Operation.FileCompressConfig	Zipping type. Valid values: `zip`, `tar`, `tar.gz`.	String
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 CSV 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:

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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

Response description

For more information, see Submitting a Multi-File Zipping Job.

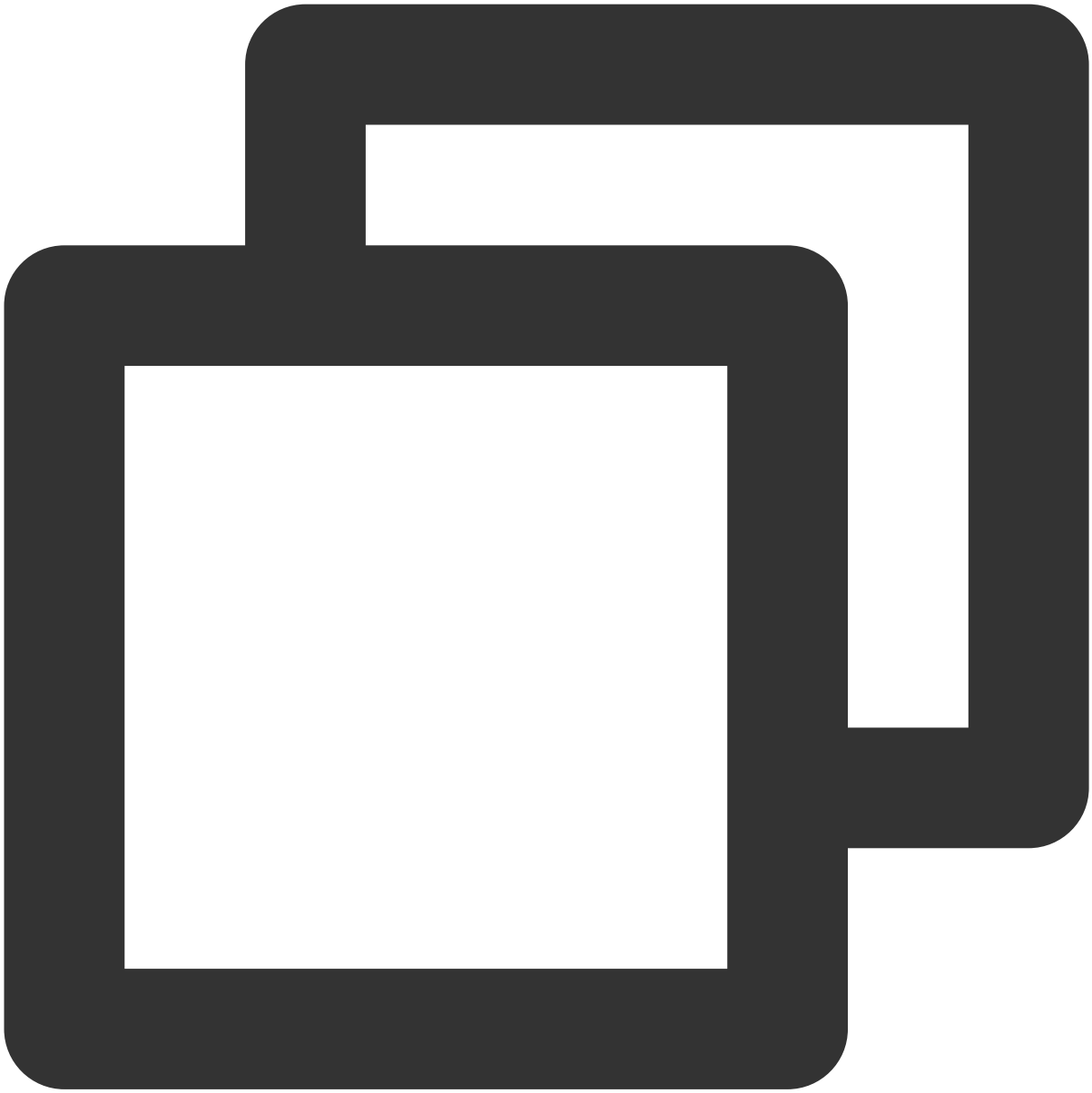
Querying Multi-File Zipping Result

Feature description

This API is used to query the details of a file processing job by job ID.

Sample code

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```
function getFileCompressTask() {
  var config = {
    // Replace with your own bucket information
    Bucket: 'examplebucket-1250000000', /* Bucket. Required */
    Region: 'COS_REGION',     /* Bucket region. Required */
  };
  var jobId = 'xxxxxx'; // After the multi-file zipping job is submitted, its `jobI
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com/file_jobs/' +
  var url = 'https://' + host;
  cos.request({
    Method: 'GET',
```

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```
    Key: 'file_jobs/' + jobId,
    Url: url,
  },
  function(err, data){
      console.log(err || data);
  });
}
getFileCompressTask();
```

Parameter description

Parameter	Description	Type	Required
jobId	ID of the job to be queried.	String	Yes

Response description

For more information, see Querying Multi-File Zipping Result.

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Hash Calculation

Last updated：2024-03-01 10:49:05

Overview

This document provides an overview of APIs and SDK code samples for hash calculation in CI.

Note:

The COS JavaScript SDK version must be at least v1.3.1.

API	Description
Submitting a hash calculation job	Creates a hash calculation job.
Querying the hash calculation result	Queries the result of a hash calculation job.

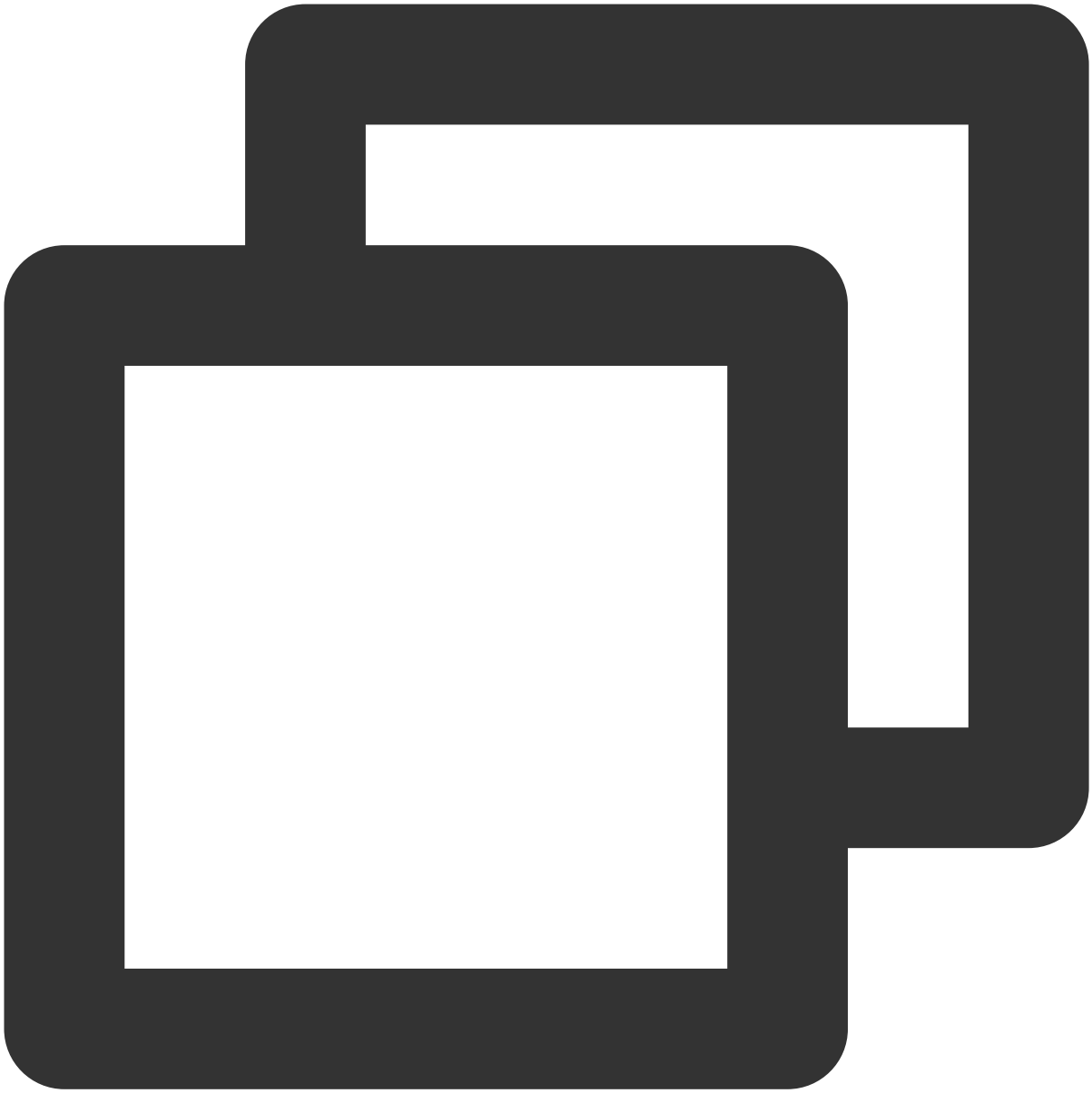
Submitting a Hash Calculation Job

Feature description

This API is used to submit a job to perform hash calculation and asynchronously return a calculated hash value.

Sample code

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```
function postFileHashTask() {
  var config = {
    // Replace with your own bucket information
    Bucket: 'examplebucket-1250000000', /* Bucket. Required */
    Region: 'COS_REGION',     /* Bucket region. Required */
  };
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com/file_jobs';
  var url = 'https://' + host;
  var body = COS.util.json2xml({
    Request: {
      Tag: 'FileHashCode', // Required
```

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```
        Input: {
          Object: 'test/1.pdf', // Filename, which is the full name of the file in th
        },
        Operation: {
          FileHashCodeConfig: {
            Type: 'MD5', // Hash algorithm. Valid values: `MD5`, `SHA1`, `SHA256`.
            AddToHeader: 'false', // Whether to add the calculated hash value to the
          },
          // UserData: '', // The user information passed through, which is printable
        },
        // QueueId: '', // ID of the queue where the job is in
        // CallBack: 'http://callback.demo.com', // Job callback address
        // CallBackFormat: 'JSON', // Job callback format
        // CallBackType: 'Url', // Job callback type, which can be `Url` (default) or
      }
    });
    cos.request({
        Method: 'POST',
        Key: 'file_jobs',
        Url: url,
        Body: body,
        ContentType: 'application/xml',
    },
    function(err, data){
        console.log(err || data);
    });
}
postFileHashTask();
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job type. It is `FileHashCode` for hash calculation.	String	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

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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
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure, 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	String	No

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		depending on `Type`. For example, if `Type` is `MD5`, the custom header is `x-cos-meta-md5`.		

Response description

For more information, see Submitting Hash Calculation Job.

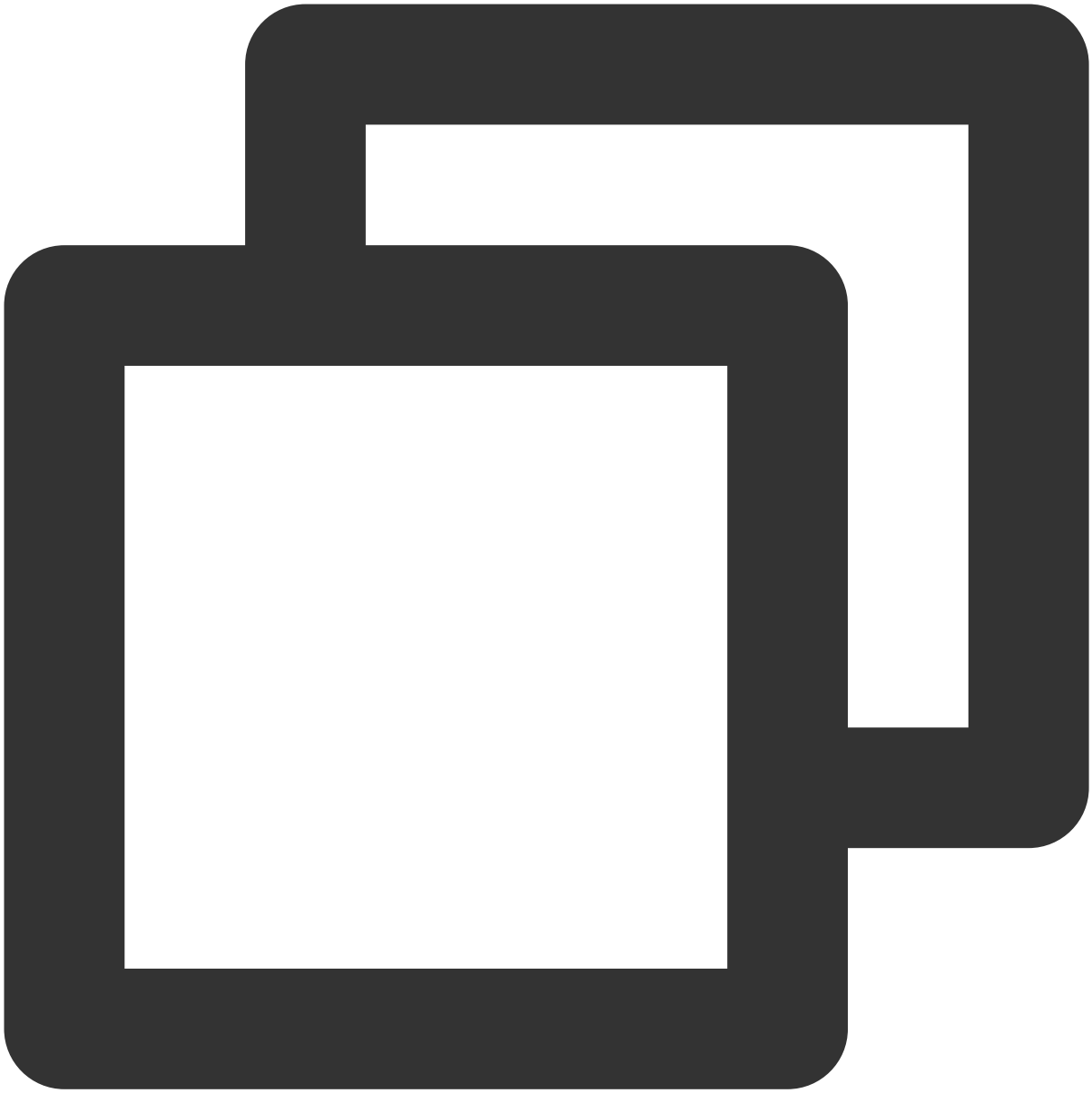
Querying Hash Calculation Result

Feature description

This API is used to query the details of a file processing job by job ID.

Sample code

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```
function getFileHashTask() {
  var config = {
    // Replace with your own bucket information
    Bucket: 'examplebucket-1250000000', /* Bucket. Required */
    Region: 'COS_REGION',     /* Bucket region. Required */
  };
  var jobId = 'xxxxxx'; // After the file has calculation job is submitted, its `jo
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com/file_jobs/' +
  var url = 'https://' + host;
  cos.request({
    Method: 'GET',
```

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```
    Key: 'file_jobs/' + jobId,
    Url: url,
  },
  function(err, data){
      console.log(err || data);
  });
}
getFileHashTask();
```

Parameter description

Parameter	Description	Type	Required
jobId	ID of the job to be queried.	String	Yes

Response description

For more information, see Querying Hash Calculation Result.

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Node.js SDK
Getting Started

Last updated：2024-03-01 14:25:48

Download and Installation

Relevant resources

Download the COS XML SDK resources for Node.js here.

SDK download: XML Node.js SDK.

Download the demo here.

For the complete sample code, see SDK Sample Code.

For the SDK changelog, see Changelog.

Note:

If you encounter errors such as non-existent functions or methods when using the SDK, you can update the SDK to the latest version and try again.

Environmental dependencies

1. The SDK requires your runtime environment to include Node.js (v6 or later) and npm.
2. Log in to the COS console, create a bucket, and get the bucket name and region name.
3. Log in to the CAM console and get your project's `SecretId` and `SecretKey`.

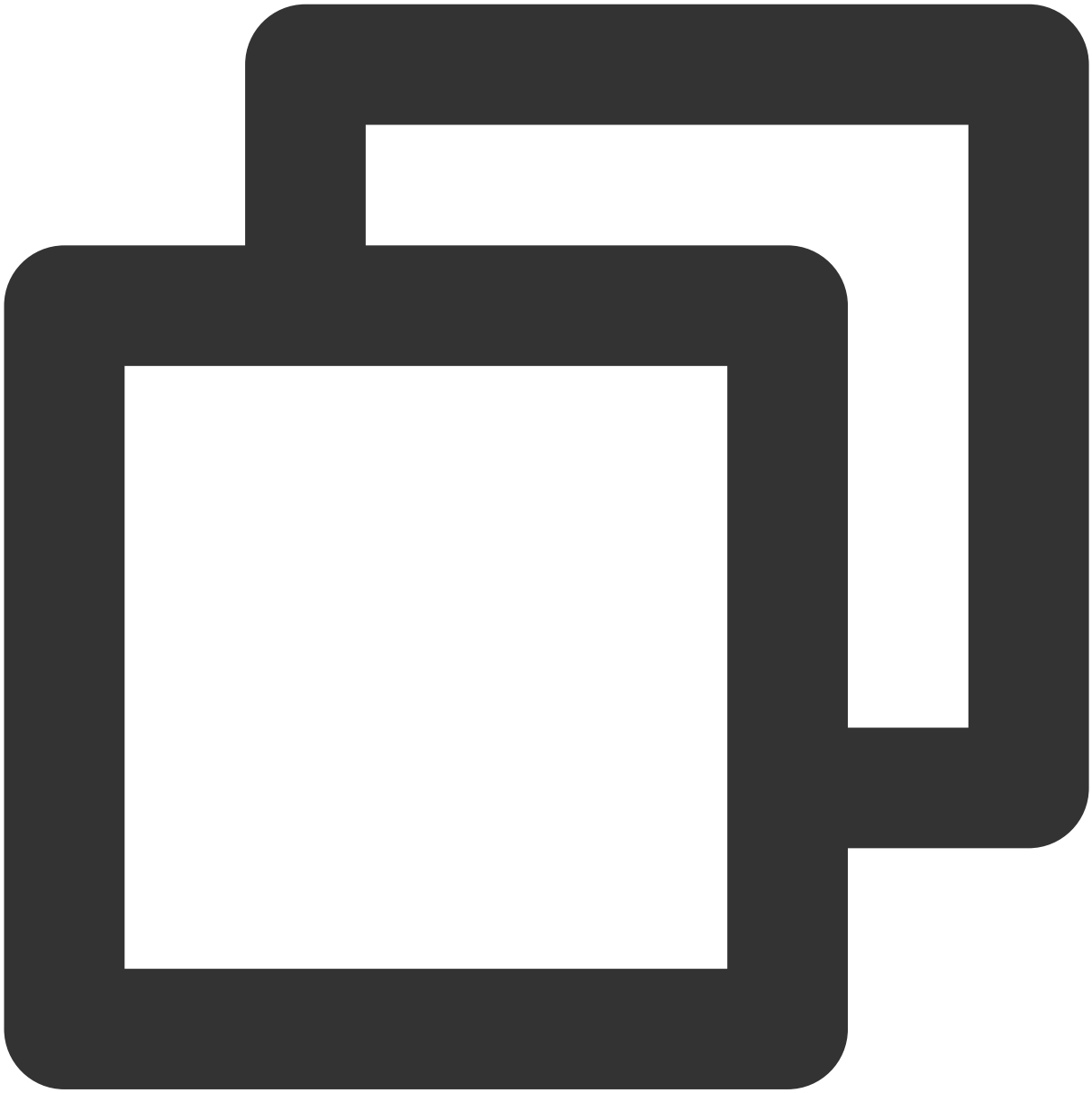
Note:

For the definition of terms such as SecretId, SecretKey, and Bucket, see COS Glossary.

Installing SDK

Install the SDK through npm which can be downloaded here.

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```
npm i cos-nodejs-sdk-v5 --save
```

Getting Started

Initialization

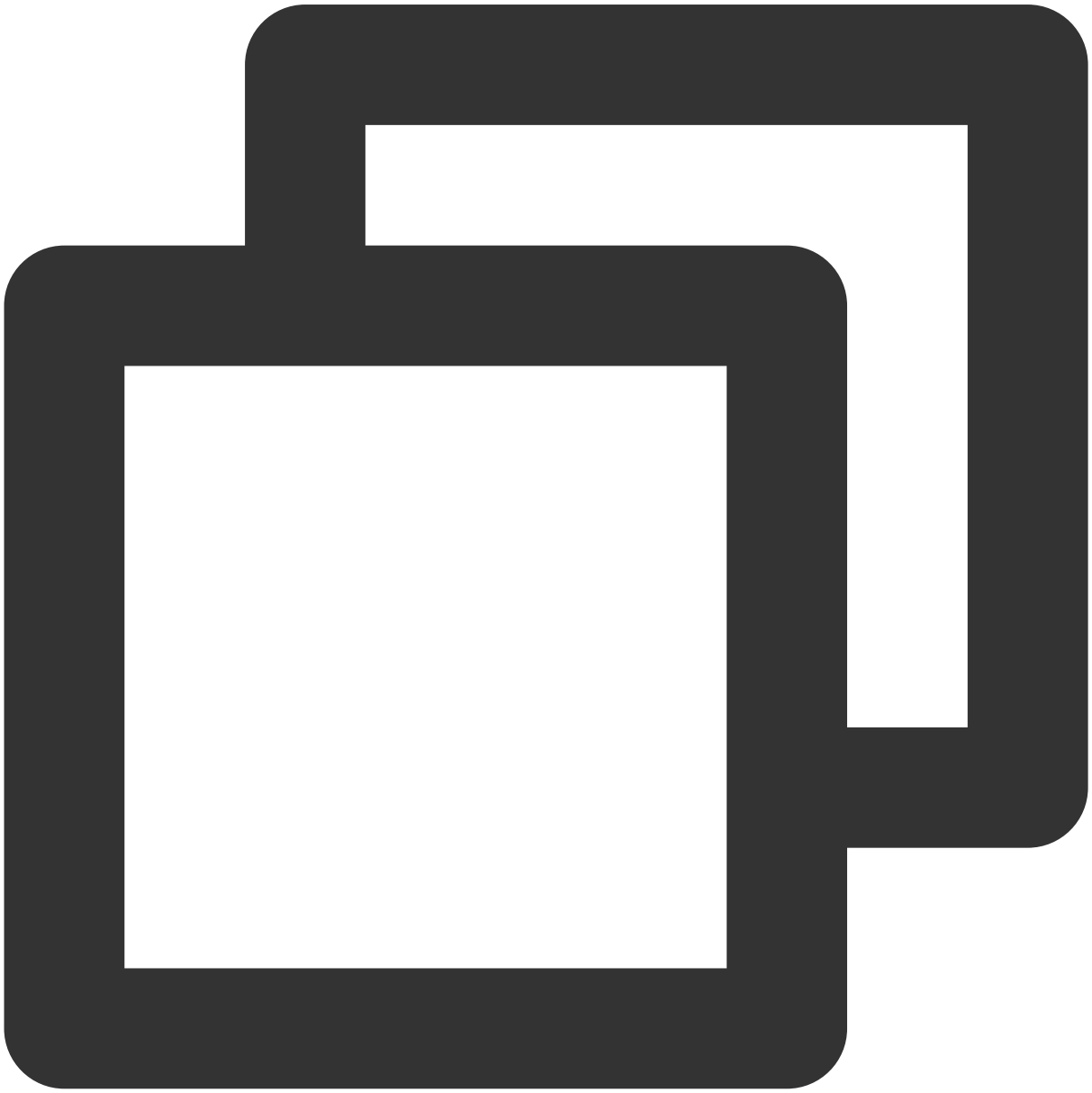
Note:

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We recommend you use a temporary key as instructed in Generating and Using Temporary Keys to call the SDK for security purposes. When you apply for a temporary key, follow the Notes on Principle of Least Privilege to avoid leaking resources besides your buckets and objects.
If you must use a permanent key, we recommend you follow the Notes on Principle of Least Privilege to limit the scope of permission on the permanent key.

Using a temporary key for initialization (recommended)

For more information on how to generate and use a temporary key, see Generating and Using Temporary Keys. The SDK for Node.js supports initialization by passing in a temporary key as shown in the sample code below:



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```
var request = require('request');
var COS = require('cos-nodejs-sdk-v5');
var cos = new COS({
    getAuthorization: function (options, callback) {
        // It will not be called during initialization and will be entered only whe
        // Get a temporary key asynchronously.
        request({
            url: 'https://example.com/sts',
            data: {
                // The required parameters can be obtained from options.
            }
        }, function (err, response, body) {
            try {
                var data = JSON.parse(body);
                var credentials = data.credentials;
            } catch(e) {}
            if (!data || !credentials) return console.error('credentials invalid');
            callback({
                TmpSecretId: credentials.tmpSecretId, // tmpSecretId of the tempora
                TmpSecretKey: credentials.tmpSecretKey, // tmpSecretKey of the temp
                SecurityToken: credentials.sessionToken, // sessionToken of the tem
                ExpiredTime: data.expiredTime, // Expiration timestamp of the tempo
            });
        });
    }
});
```

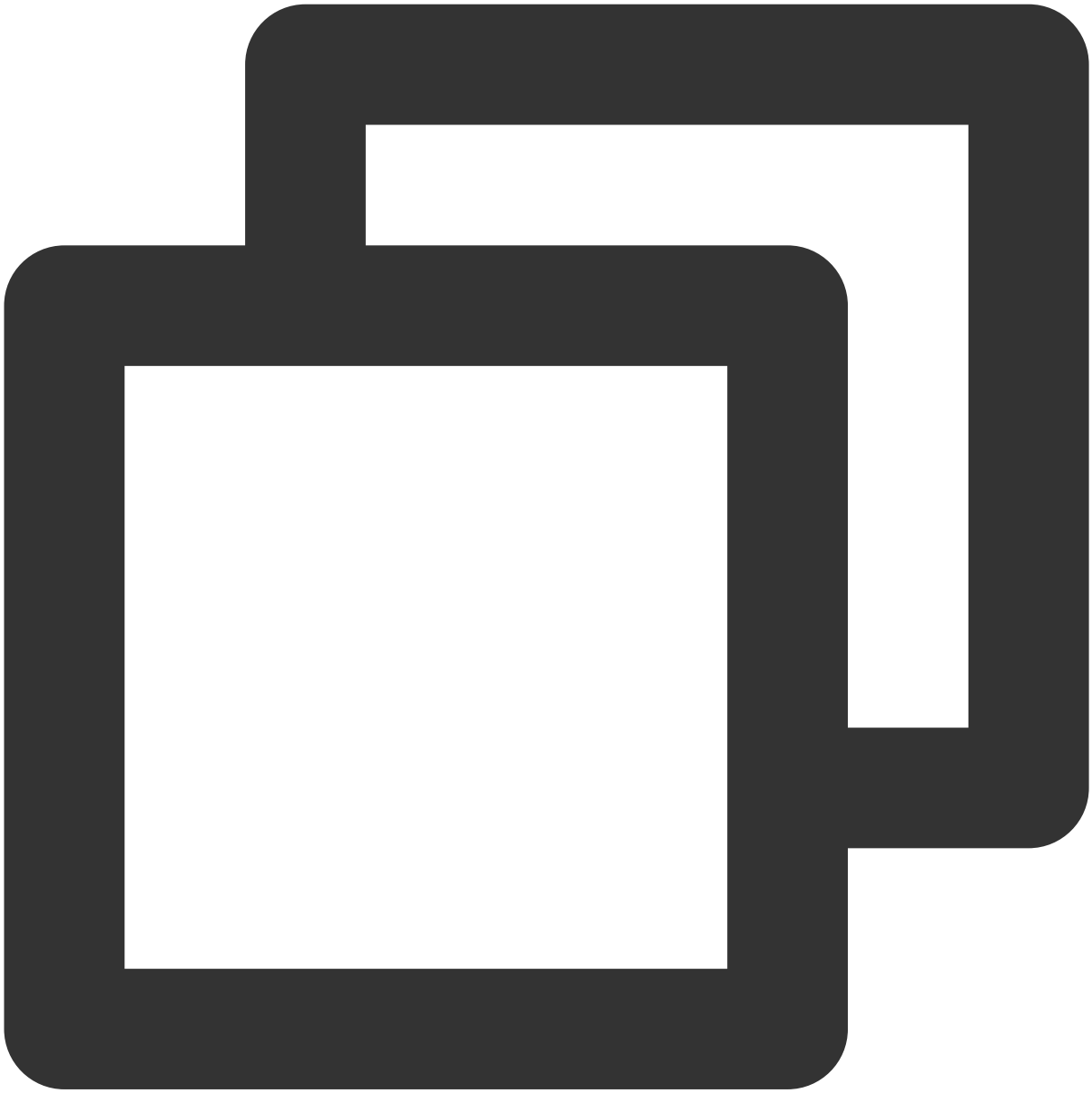
Using a permanent key for initialization (not recommended)

When using a permanent key for initialization, store the key properly to prevent leakage.

First, log in to the CAM console, and get your `SecretId` and `SecretKey` from the Access Key page.

Replace `SecretId`, `SecretKey`, `bucket`, and `region` with the actual values in your development environment. To test file upload, see the following sample code.

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```
// Log in to https://console.intl.cloud.tencent.com/cam/capi to check and manage th
var COS = require('cos-nodejs-sdk-v5');
var cos = new COS({
    SecretId: process.env.SecretId, // User `SecretId`. We recommend you obtain it
    SecretKey: process.env.SecretKey, // User `SecretKey`. We recommend you obtain
});
```

Below are some common APIs. For more detailed initialization methods, see the demo.

Configuration item

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Constructor parameters

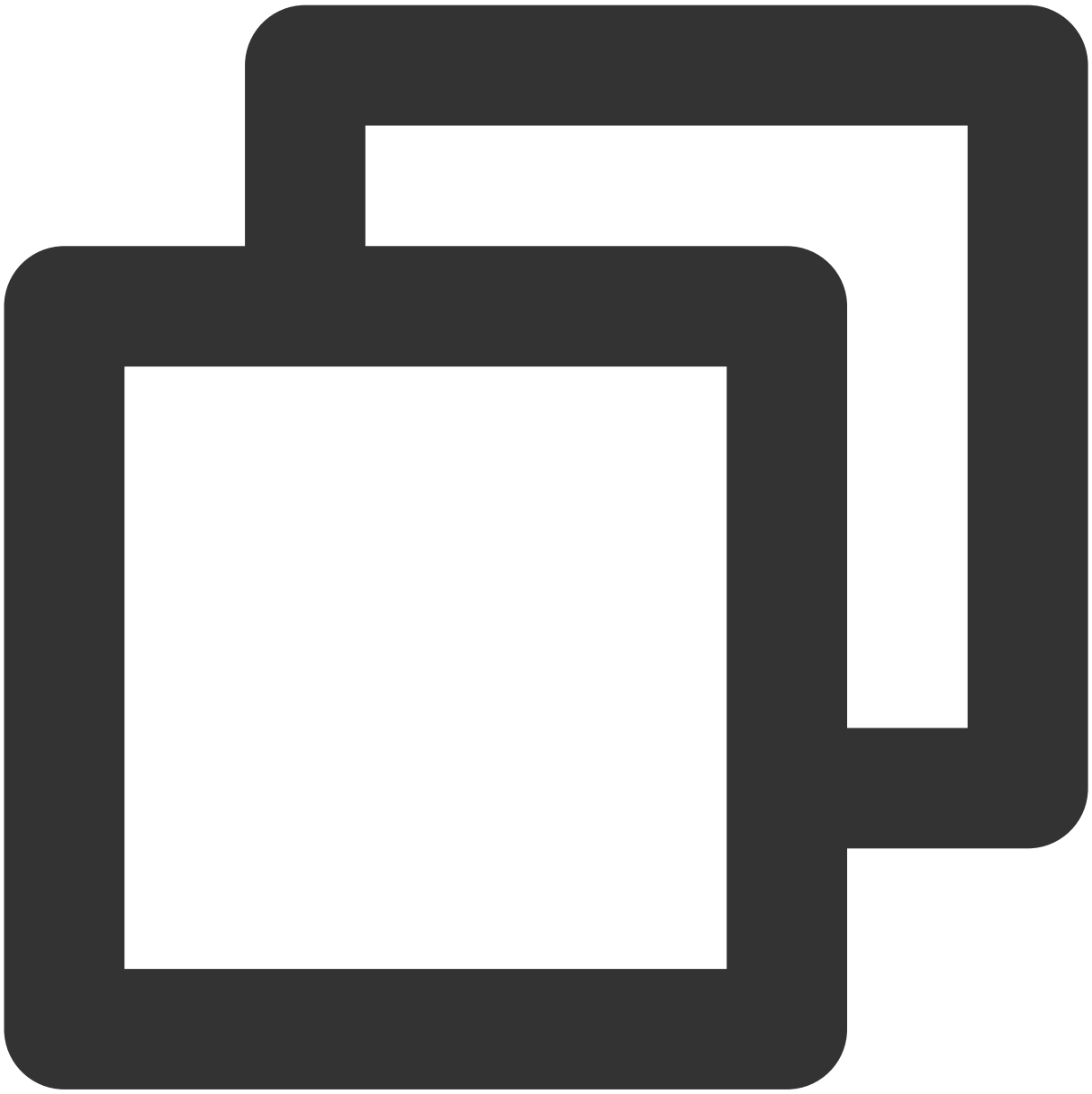
Parameter	Description	Type	Required
SecretId	User SecretId	String	Yes
SecretKey	User SecretKey	String	Yes
FileParallelLimit	Number of concurrent file uploads in the same instance. Default value: 3	Number	No
ChunkParallelLimit	Number of concurrent part uploads for the same uploaded file. Default value: 3	Number	No
ChunkRetryTimes	Number of retries for multipart upload failure. Default value: 2 (a request will be made 3 time in total, including the initial one)	Number	No
ChunkSize	Part size in the multipart upload in bytes. Default value: 1048576 (1 MB)	Number	No
SliceSize	When files are uploaded in batches using `uploadFiles` , if the file size is greater than the value of this parameter (measured in bytes), multipart upload is used; otherwise, simple upload is used. Default value: 1048576 (1 MB)	Number	No
CopyChunkParallelLimit	Number of concurrent part uploads for the same multipart copy operation. Default value: 20	Number	No
CopyChunkSize	Number of bytes in each part during a multipart copy operation with `sliceCopyFile` . Default value: 10485760 (10 MB)	Number	No
CopySliceSize	When a file is copied using `sliceCopyFile` , if the file size is greater than the value of this parameter, multipart copy is used; otherwise, simple copy is used. Default value: 10485760 (10 MB)	Number	No
ProgressInterval	Callback frequency of the upload progress callback method `onProgress` in milliseconds. Default value: 1000	Number	No
Protocol	The protocol used when the request is made. Valid values: `https:` , `http:` . By default, `http:` is used when the current page is determined to be in `http:` format; otherwise, `https:` is used	String	No

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ServiceDomain	The request domain name when `getService` is called, such as `service.cos.myqcloud.com`	String	No
Domain	Custom request domain name used to call a bucket or object API. You can use a template such as `"{Bucket}.cos.{Region}.myqcloud.com"` which will use the bucket and region information passed in the replacement parameters when an API is called.	String	No
UploadQueueSize	The maximum size of the upload queue. If the maximum is exceeded, failed, completed, and canceled tasks will be cleared. Default value: 1000	Number	No
ForcePathStyle	Forces the use of a suffix when sending requests. The suffixed bucket will be placed in the pathname after the domain name, and the bucket will be added to the signature pathname for calculation. Default value: false	Boolean	No
UploadCheckContentMd5	Forces the verification of `Content-MD5` for file uploads, which calculates the MD5 checksum of the file request body and places it in the `Content-MD5` field of the header. Default value: false	Boolean	No
Timeout	Timeout period in milliseconds. Default value: 0, indicating no timeout period.	Number	No
KeepAlive	Indicates that more than one request is sent over one TCP connection. Default value: `true` . This parameter is recommended for a large number of concurrent requests.	Boolean	No
StrictSsl	Strict verification of the HTTPS certificate. Default value: `true`	Boolean	No
Proxy	Uses an HTTP proxy when making requests, such as: `http://127.0.0.1:8080`	String	No
getAuthorization	Callback method for getting the signature. If there is no `SecretId` or `SecretKey` , this parameter is required	Function	No
UseAccelerate	Whether to enable a global acceleration endpoint. Default value: `false` . If you set the value to `true` , you need to enable global acceleration for the bucket. For more information, see Enabling Global Acceleration.	Boolean	No

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getAuthorization Callback function description (Format 1)



```
getAuthorization: function(options, callback) { ... }
```

getAuthorization function parameters:

Parameter	Description	Type
options	Required for getting the signature	Object

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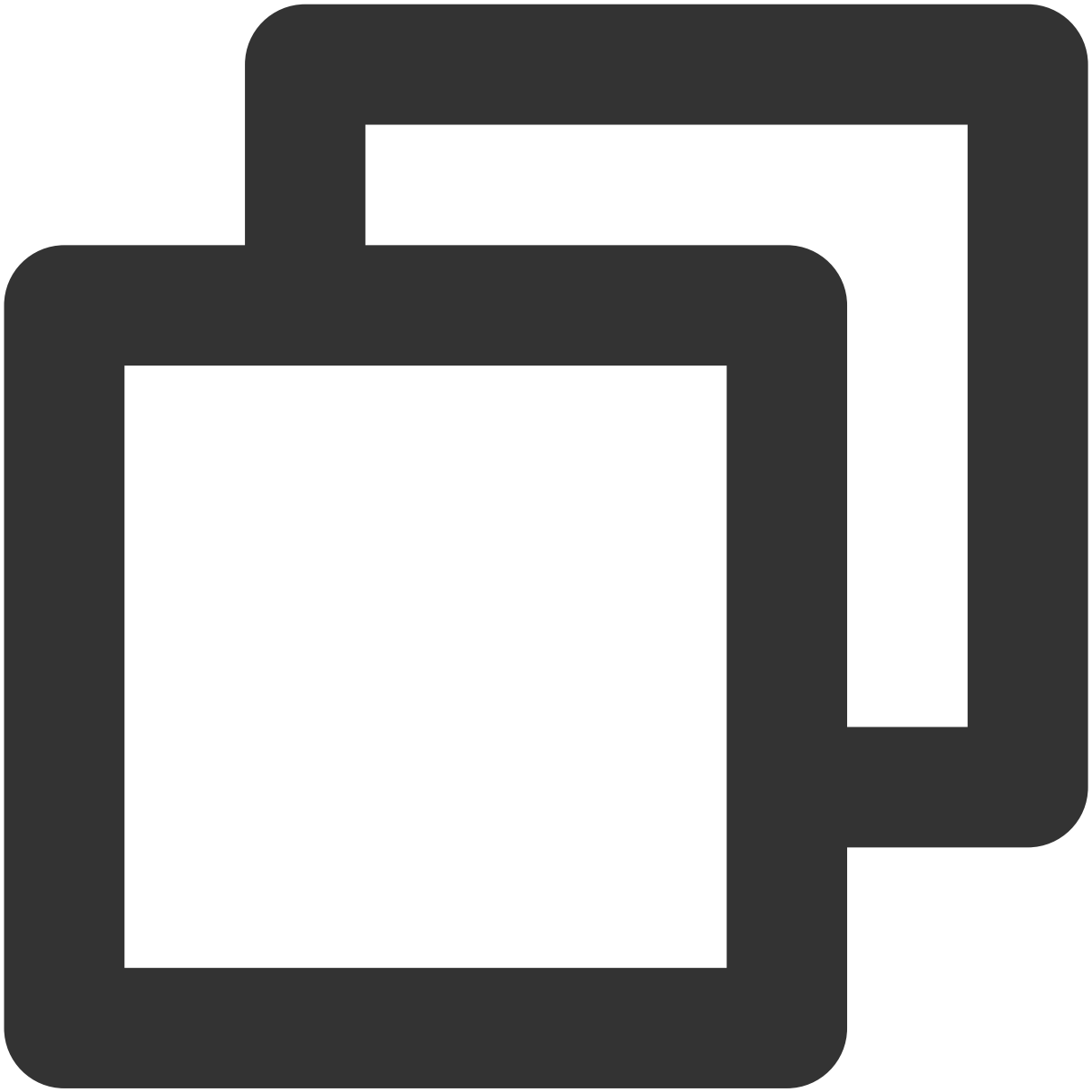
- Bucket	Bucket name in the format of `BucketName-APPID` . The bucket name entered here must be in this format	String
- Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String
callback	Callback method after the temporary key is obtained	Function

After the temporary key is obtained, the callback returns an object. The attributes of the returned object are as listed below:

Attribute	Description	Type	Required
TmpSecretId	`tmpSecretId` of the obtained temporary key	String	Yes
TmpSecretKey	`tmpSecretKey` of the obtained temporary key	String	Yes
SecurityToken	sessionToken of the obtained temporary key, which corresponds to the `x-cos-security-token` field in the header	String	Yes
StartTime	The timestamp in seconds of when you obtained the key, such as `1580000000` . Passing in this parameter as the signature start time can avoid signature expiration issues due to time deviation on the frontend.	String	No
ExpiredTime	`expiredTime` of the obtained temporary key measured in seconds, i.e., the timeout timestamp, such as 1580000900	String	Yes

getAuthorization Callback function description (Format 2)

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```
getAuthorization: function(options, callback) { ... }
```

getAuthorization function parameters:

Parameter	Description	Type
options	Parameter object for getting the signature	Object
- Method	Method of the current request	String
- Pathname	Request path used for signature calculation	String

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- Key	ObjectKey (object name) is the unique ID of an object in a bucket. For more information, see Object Overview.	String
- Query	Query parameter in the current request. Format: {key: 'val'}	Object
- Headers	Headers in the current request. Format: {key: 'val'}	Object
callback	Callback after the temporary key is obtained	Function

Once the getAuthorization callback function is finished, it returns one of the following:
An Authorization string.
An object whose attributes are listed as follows:

Attribute	Description	Type	Required
Authorization	Calculated signature string	String	Yes
SecurityToken	`sessionToken` of the obtained temporary key, which corresponds to the `x-cos-security-token` field in the header	String	No

Getting an authentication credential

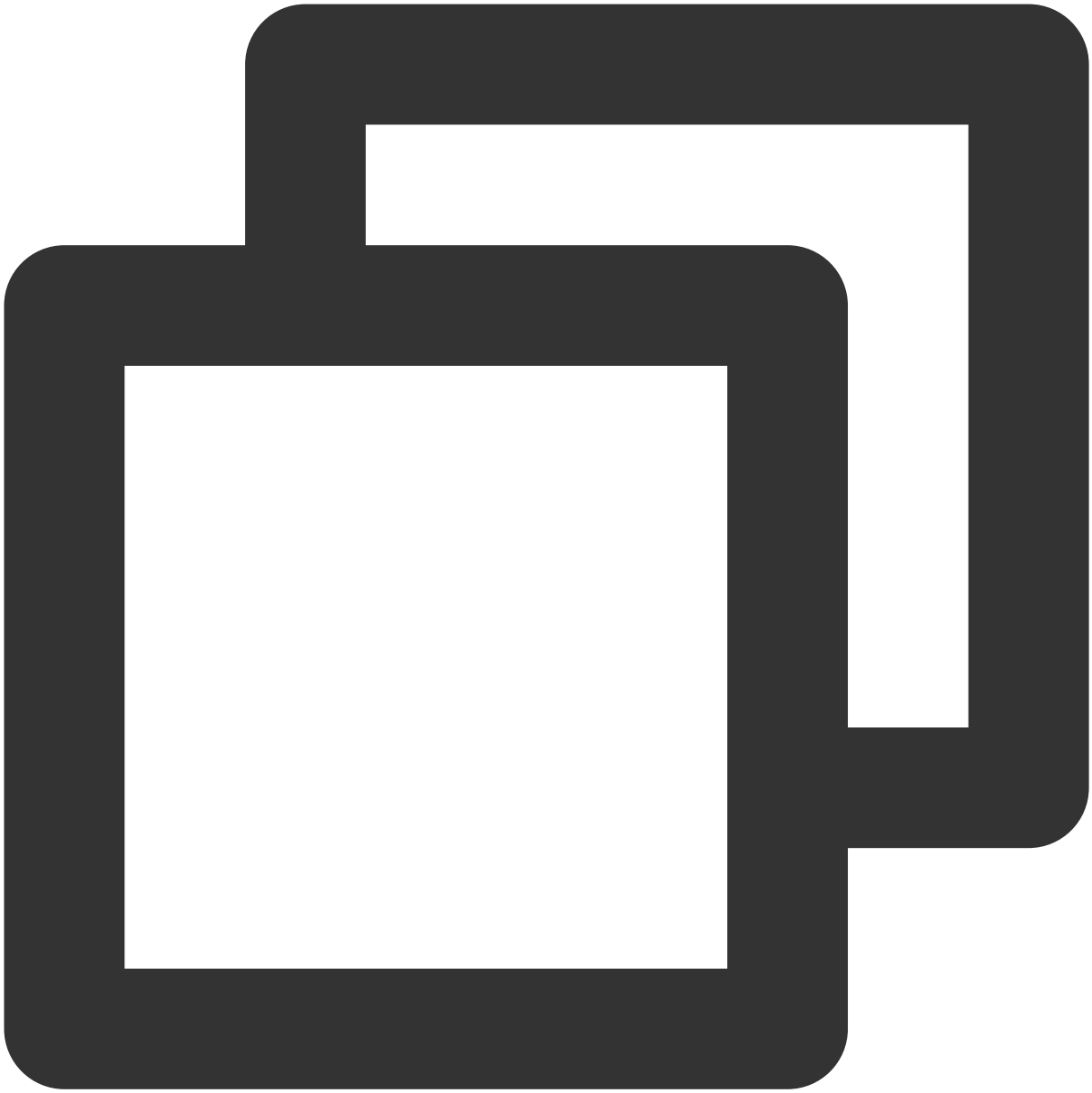
There are three ways to get the authentication credentials for your instance by passing in different parameters during instantiation:
1. During instantiation, pass in your `SecretId` and `SecretKey`. Each time a signature is required, it will be internally calculated by the instance.
2. During instantiation, pass in the `getAuthorization` callback function. Each time a signature is required, it will be calculated and returned to the instance through this callback.
3. During instantiation, pass in the `getSTS` callback. Each time a temporary key is required, it will be returned to the instance for signature calculation within the instance during each request.

How to use

Callback method

The callback method is used by default in the documentation. Below is the sample code:

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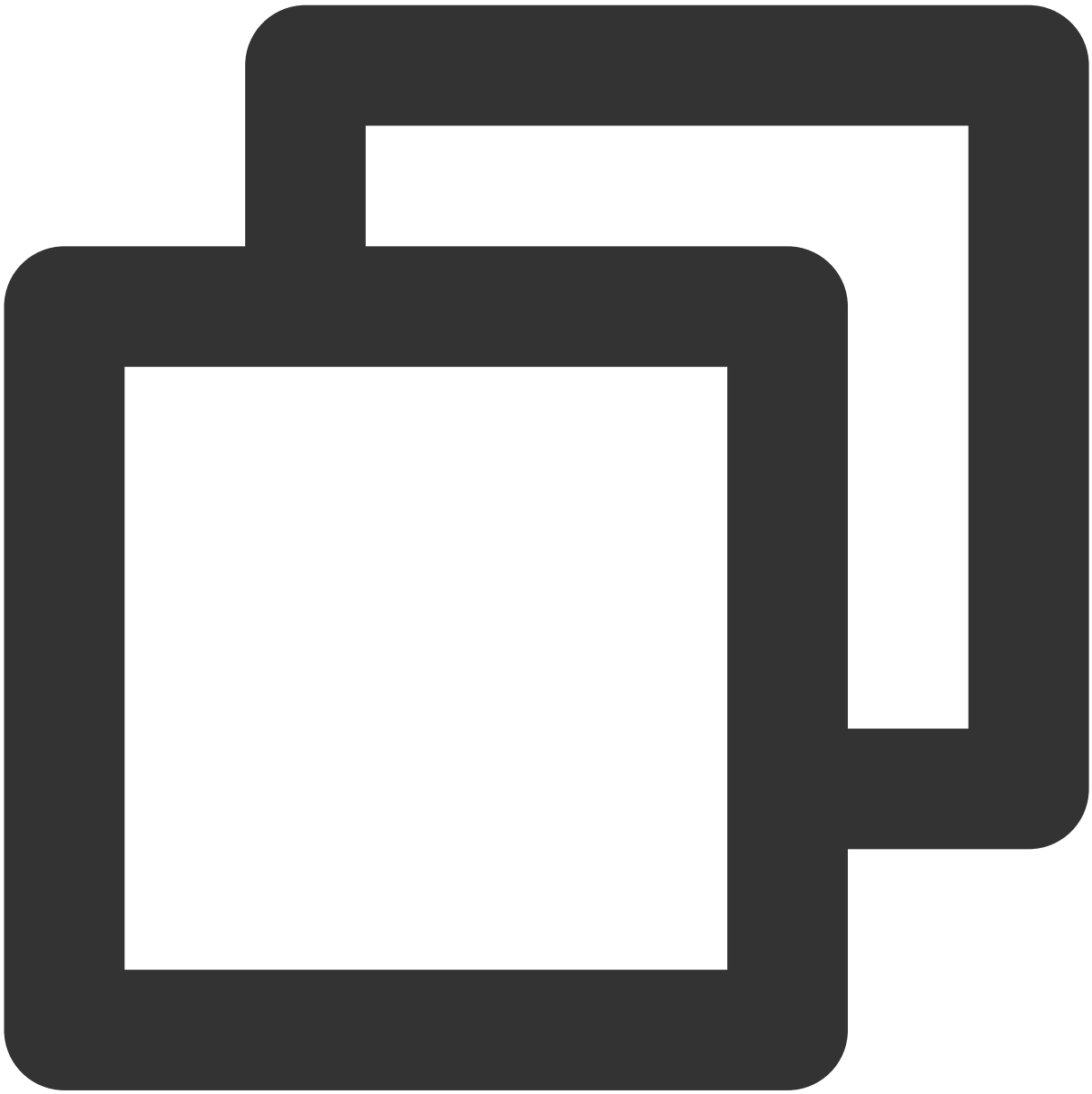


```
// The initialization process and upload parameters are omitted here.
var cos = new COS({ ... });
cos.uploadFile({ ... }, function(err, data) {
  if (err) {
    console.log('Upload failed', err);
  } else {
    console.log('Uploaded successfully', data);
  }
});
```

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Promise

The SDK also supports calling through the promise method. For example, the code of the callback method above is equivalent to the following code:

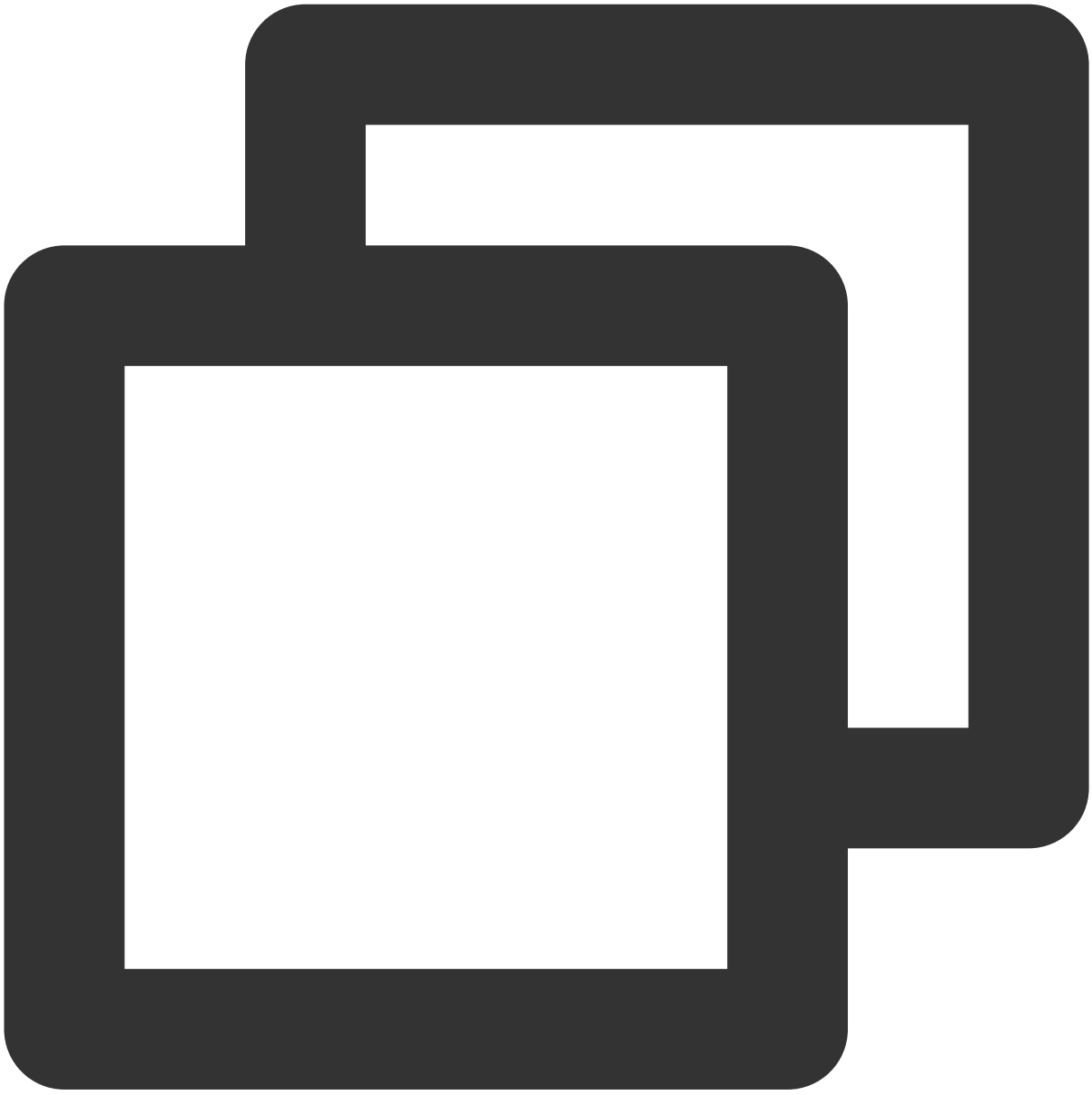


```
// The initialization process and upload parameters are omitted here.
var cos = new COS({ ... });
cos.uploadFile({ ... }).then(data => {
  console.log('Uploaded successfully', data);
}).catch(err => {
  console.log('Upload failed', err);
});
```

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Sync method

The sync method is based on JavaScript's async and await. The code of the callback method above is equivalent to the following code:



```
async function upload() {
  // The initialization process and upload parameters are omitted here.
  var cos = new COS({ ... });
  try {
    var data = await cos.uploadFile({ ... });
```

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```
    return { err: null, data: data }
  } catch (err) {
    return { err: err, data: null };
  }
}
// The returned value of the request can be obtained synchronously. Here is only an
var uploadResult = await upload();
if (uploadResult.err) {
  console.log('Upload failed', uploadResult.err);
} else {
  console.log('Uploaded successfully', uploadResult.data);
}
```

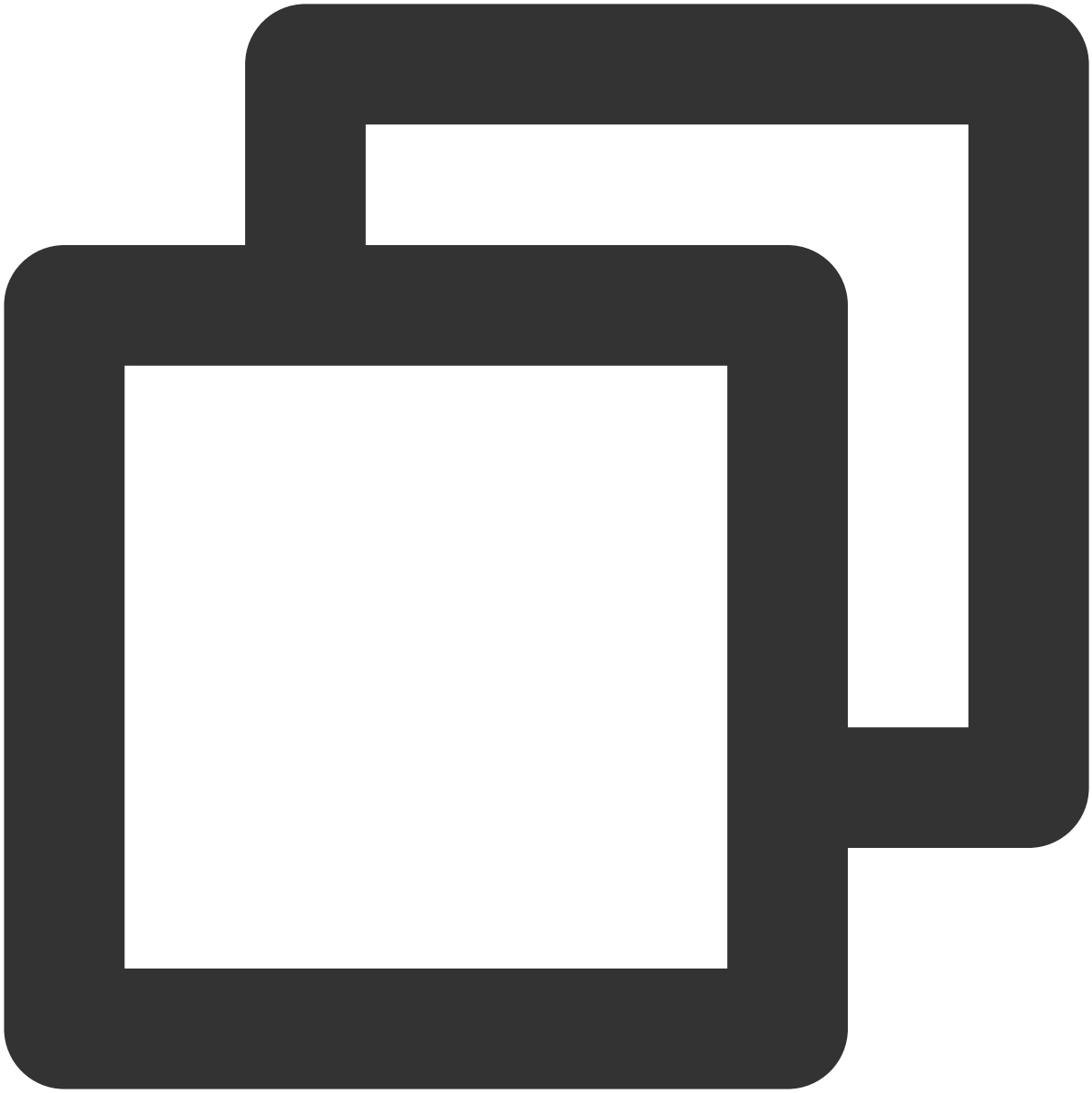
Note:

`cos.getObjectUrl` currently only supports the callback method.

Tips

In most cases, you only need to create a COS SDK instance, and use it directly where SDK methods need to be called.

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```
var cos = new COS({
  ....
});

/* Self-encapsulated upload method */
function myUpload() {
  // COS SDK instances do not need to be created in each method
  // var cos = new COS({
  //   ...
  // });
  cos.putObject({
```

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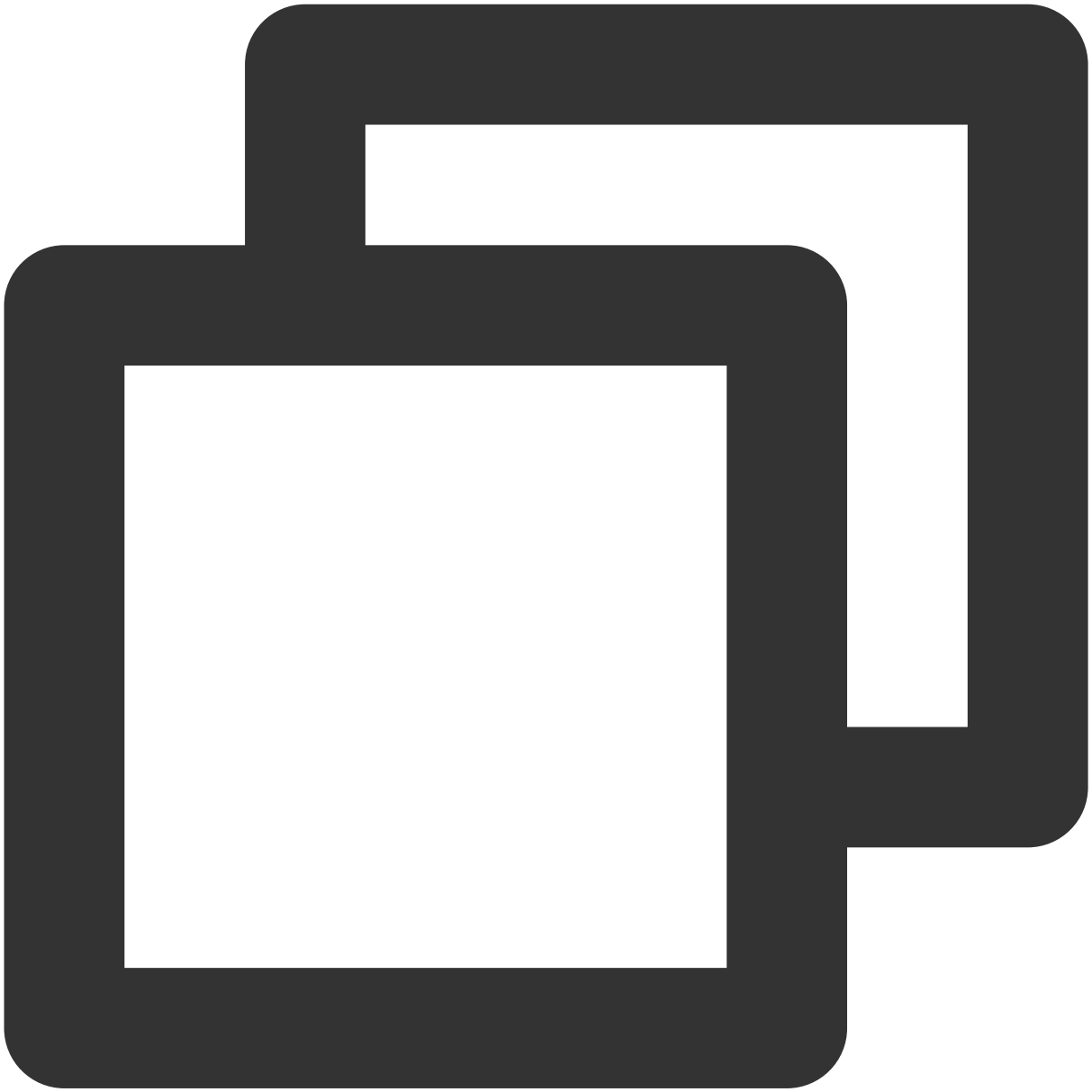
```
    ....
  });
}

/* Self-encapsulated deletion method */
function myDelete() {
  // COS SDK instances do not need to be created in each method
  // var cos = new COS({
  //   ...
  // });
  cos.deleteObject({
    ....
  });
}
```

Below are some common APIs. For more detailed initialization methods, see the demo.

Creating a bucket

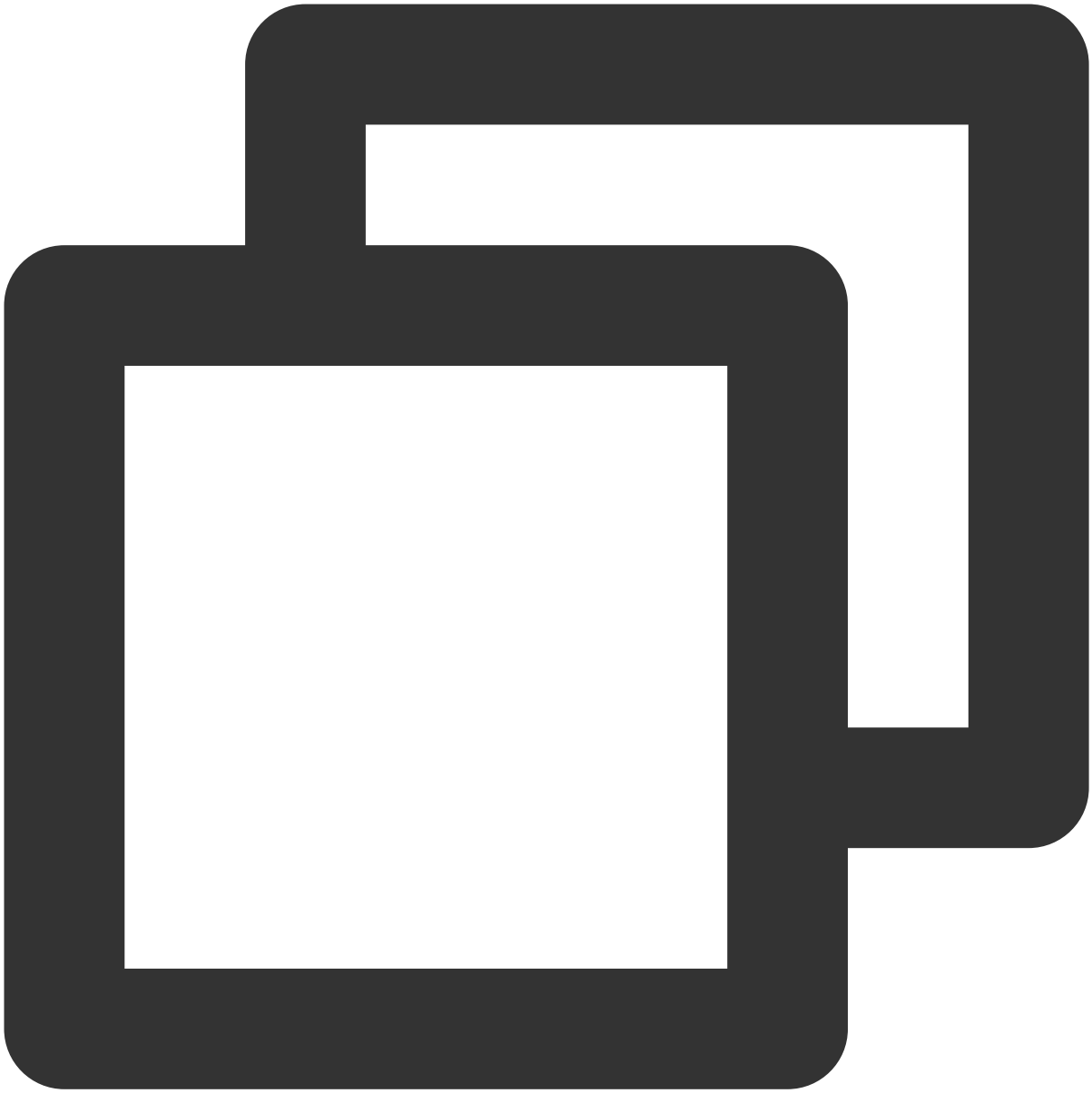
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```
cos.putBucket({
    Bucket: 'examplebucket-1250000000',
    Region: 'COS_REGION'
}, function(err, data) {
    console.log(err || data);
});
```

Querying the bucket list

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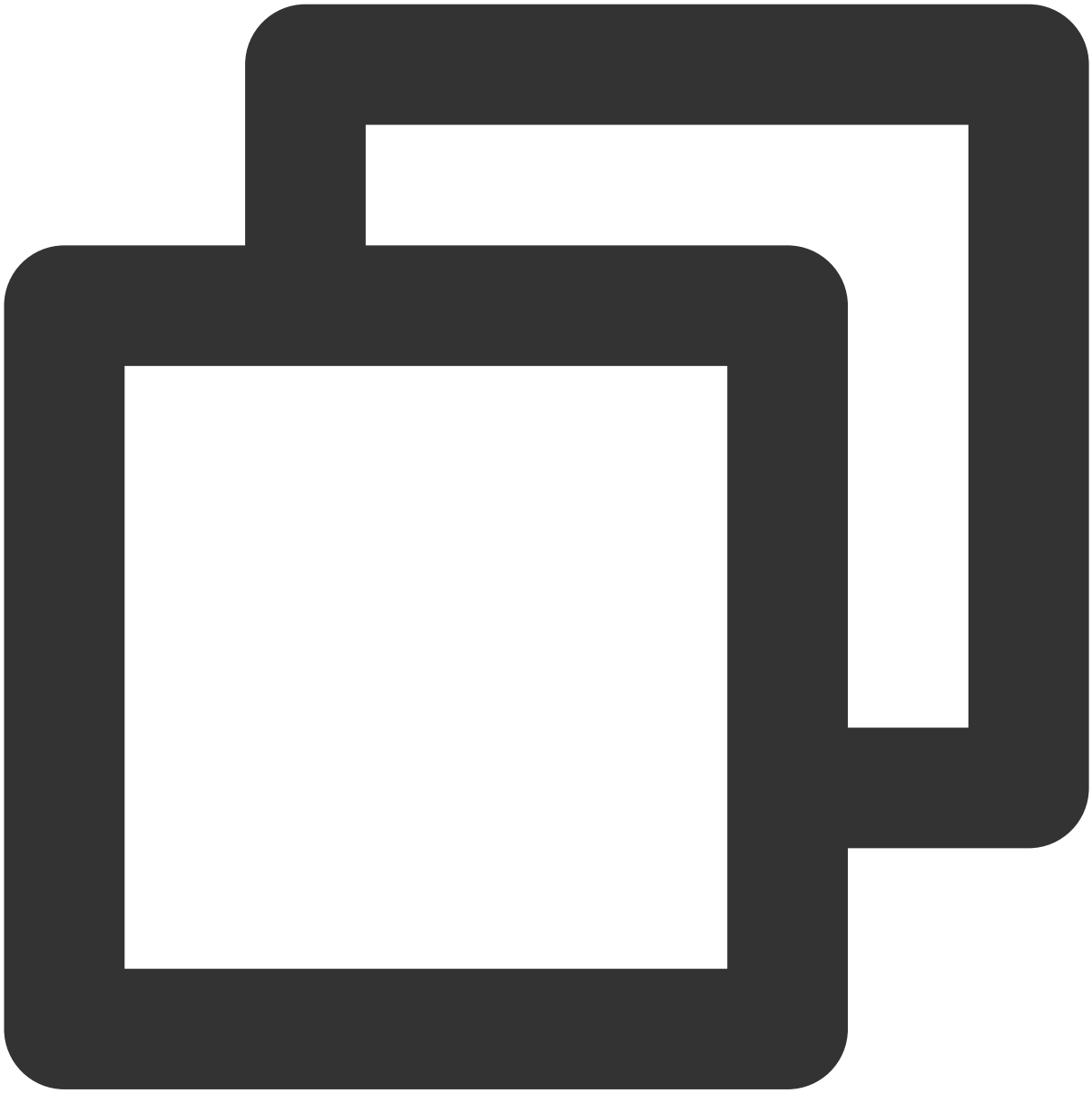


```
cos.getService(function (err, data) {
    console.log(data && data.Buckets);
});
```

Uploading an object

This API is used to upload small files. For large files, use the multipart upload API. For more information, see Object Operations.

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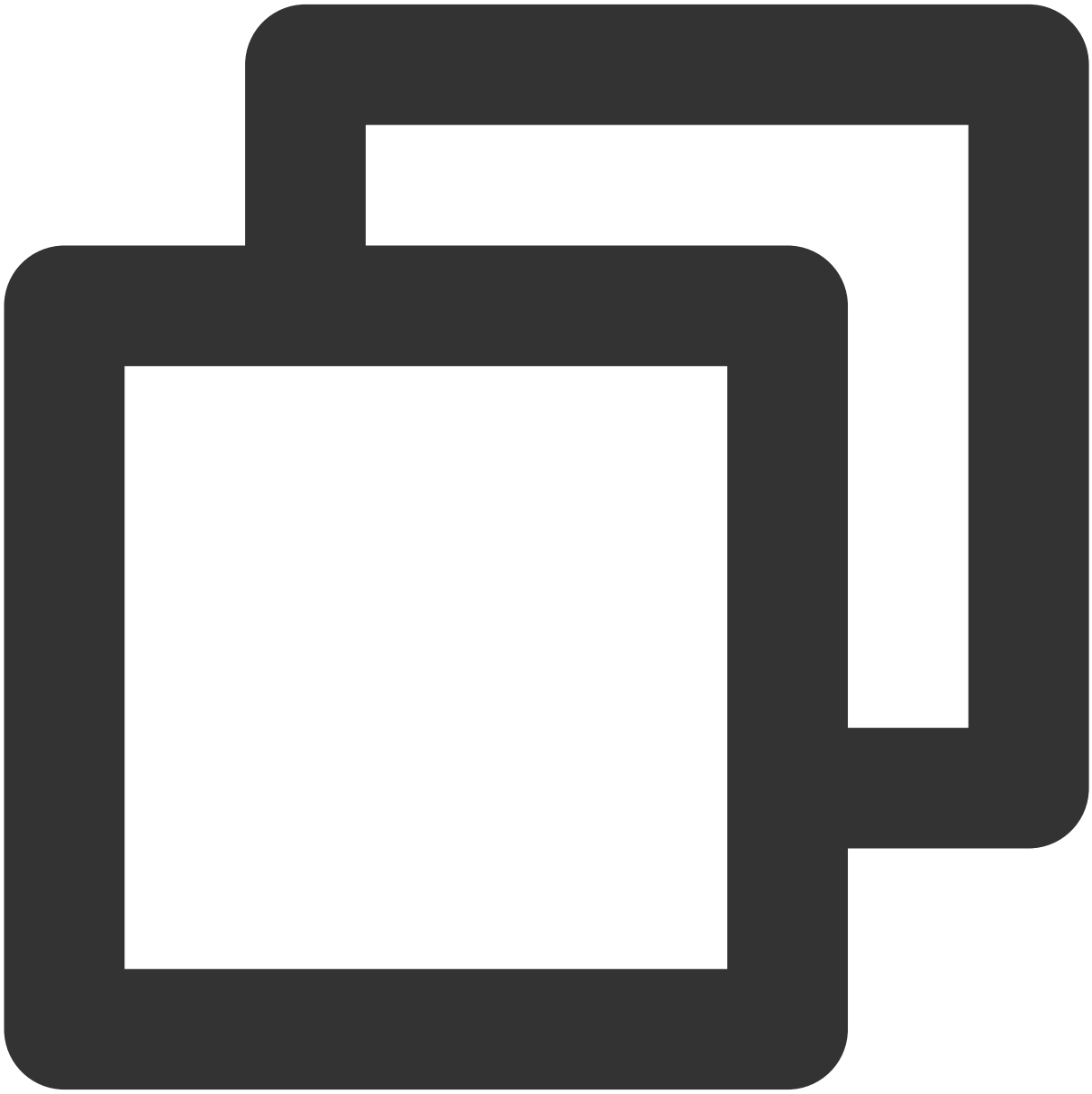


```
cos.putObject({
    Bucket: 'examplebucket-1250000000', /* Required */
    Region: 'COS_REGION', /* Required */
    Key: 'exampleobject', /* Required */
    StorageClass: 'STANDARD',
    Body: fs.createReadStream('./exampleobject'), // Uploading file object
    onProgress: function(progressData) {
        console.log(JSON.stringify(progressData));
    }
}, function(err, data) {
    console.log(err || data);
```

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```
});
```

Querying objects

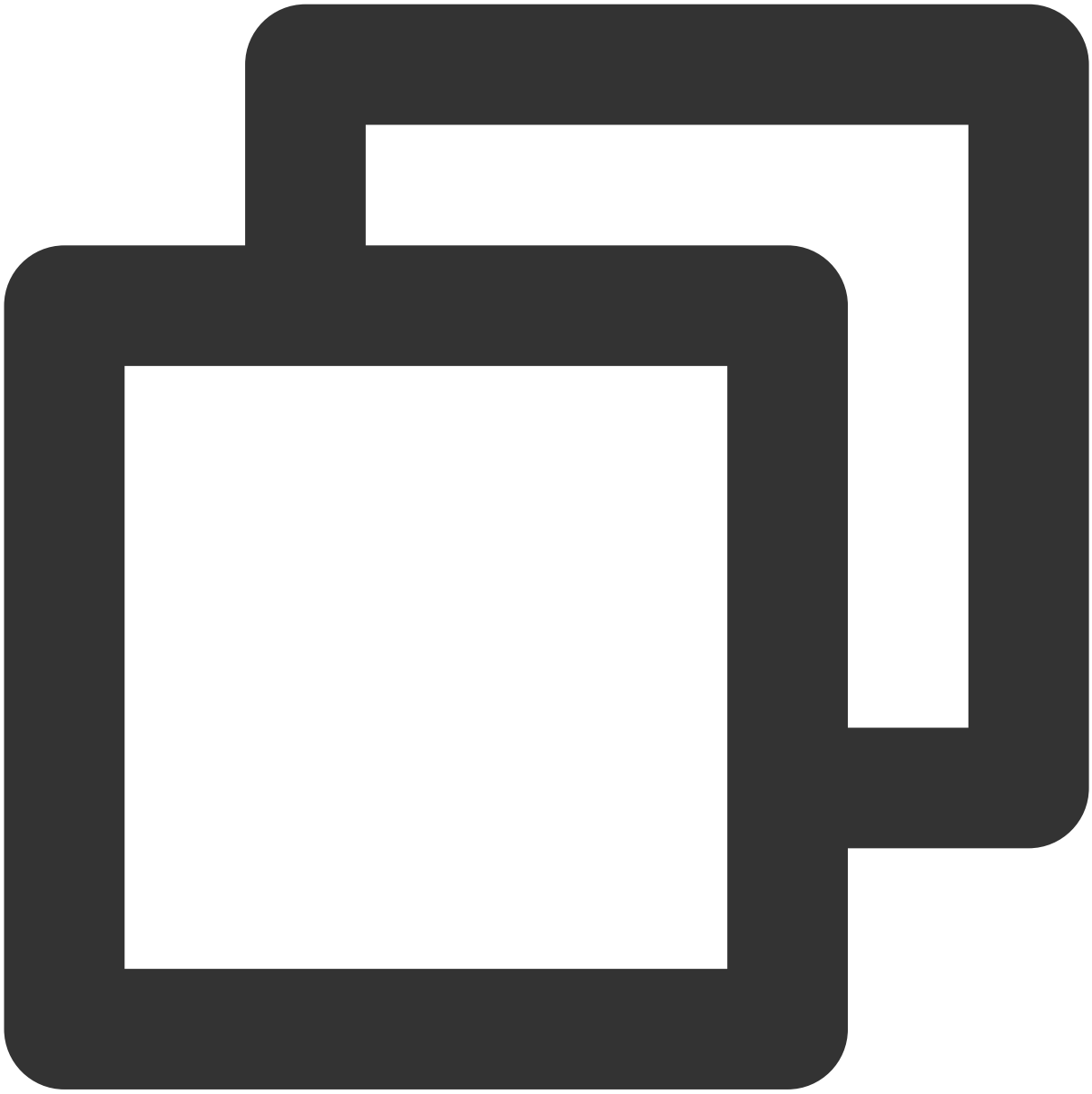


```
cos.getBucket({
    Bucket: 'examplebucket-1250000000', /* Required */
    Region: 'COS_REGION', /* Required */
    Prefix: 'a/', /*Optional*/
}, function(err, data) {
    console.log(err || data.Contents);
```

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```
});
```

Downloading an object

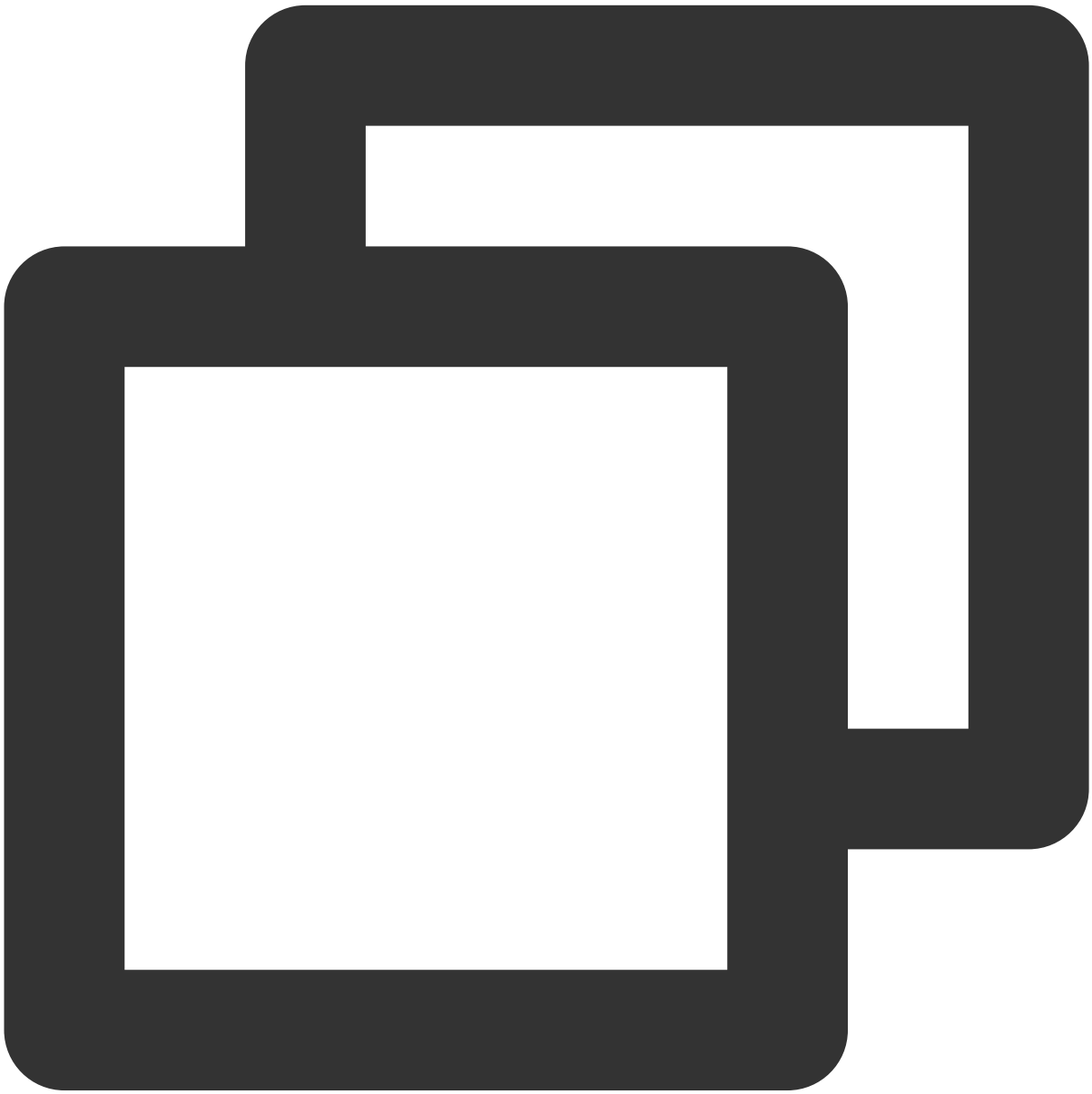


```
cos.getObject({
    Bucket: 'examplebucket-1250000000', /* Required */
    Region: 'COS_REGION', /* Required */
    Key: 'exampleobject', /* Required */
    Output: fs.createWriteStream('./exampleobject'),
}, function(err, data) {
```

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```
    console.log(err || data);
});
```

Deleting an object



```
cos.deleteObject({
    Bucket: 'examplebucket-1250000000', /* Required */
    Region: 'COS_REGION', /* Required */
    Key: 'exampleobject'       /* Required */
}, function(err, data) {
```

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```
    console.log(err || data);
});
```

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Image Processing
Basic Image Processing

Last updated：2024-03-01 14:25:48

Overview

This document provides an overview of APIs and SDK code samples for basic image processing.

Service	Feature	Description
Basic image processing	Scaling	Proportional scaling, scaling image to target width and height
	Cropping	Regular cropping, cropping and scaling, inscribed circle cropping, intelligent face cropping
	Rotation	Adaptive rotation, regular rotation
	Format conversion	Format conversion, GIF format optimization, progressive display
	Quality change	Quality change for JPG and WebP images
	Gaussian blurring	Image blurring
	Sharpening	Image sharpening
	Watermarking	Image watermark, text watermark
	Image information acquisition	Basic information, EXIF information, average hue
	Metadata removal	Including EXIF information
	Quick thumbnail template	Quick image format conversion, scaling, and cropping for thumbnail generation

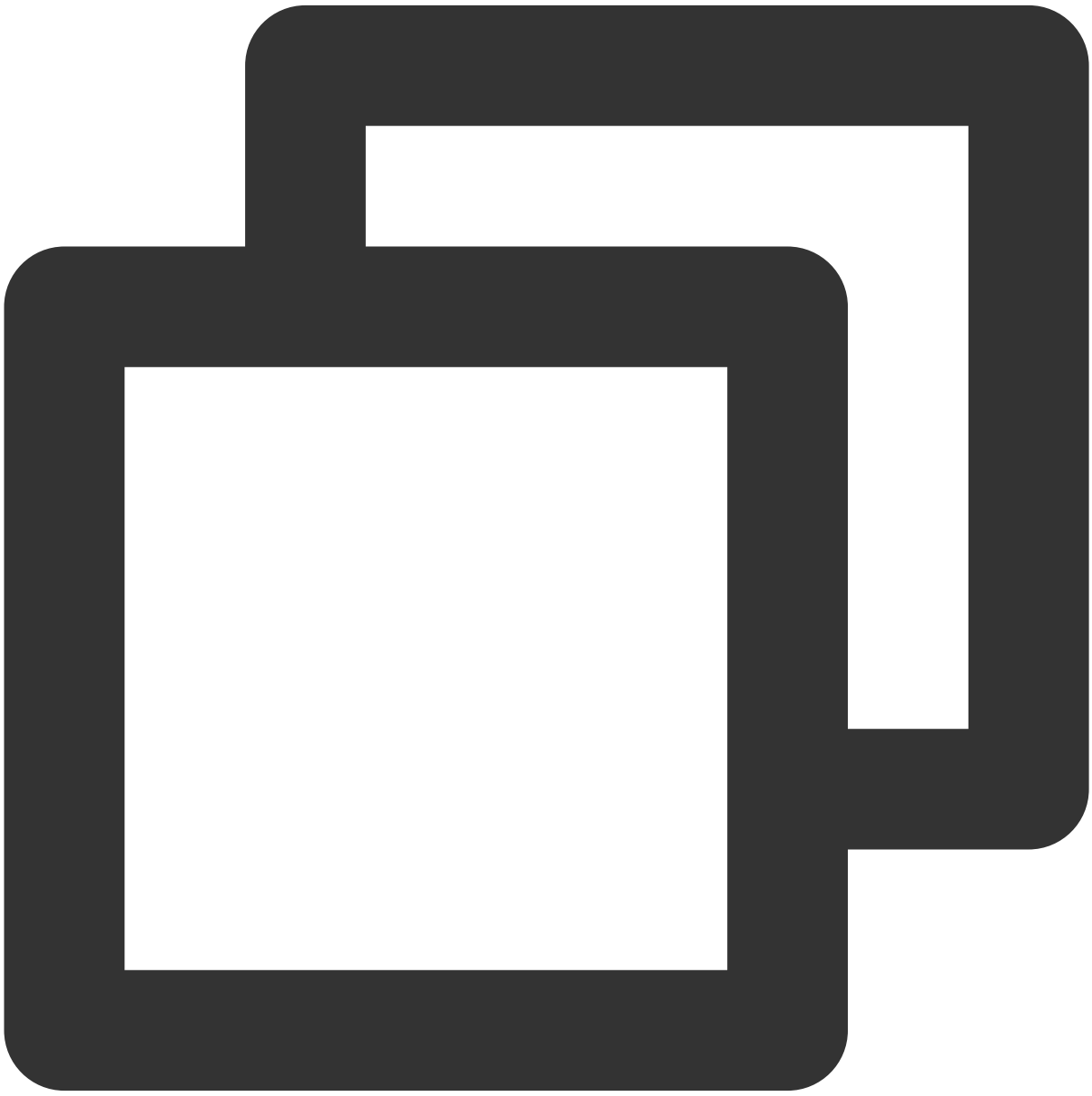
Processing Image During Upload

The following example shows how to automatically process an image when you upload it to COS.

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When the image is uploaded successfully, COS will save both the original and the processed images. You can later obtain the processing results by using a general download request.

Sample code



```
const filePath = "temp-file-to-upload" // Local file path
cos.putObject({
   Bucket: 'examplebucket-1250000000',
   Region: 'COS_REGION',
   Key: 'exampleobject',
   Body: fs.createReadStream(filePath), // Uploaded file object
```

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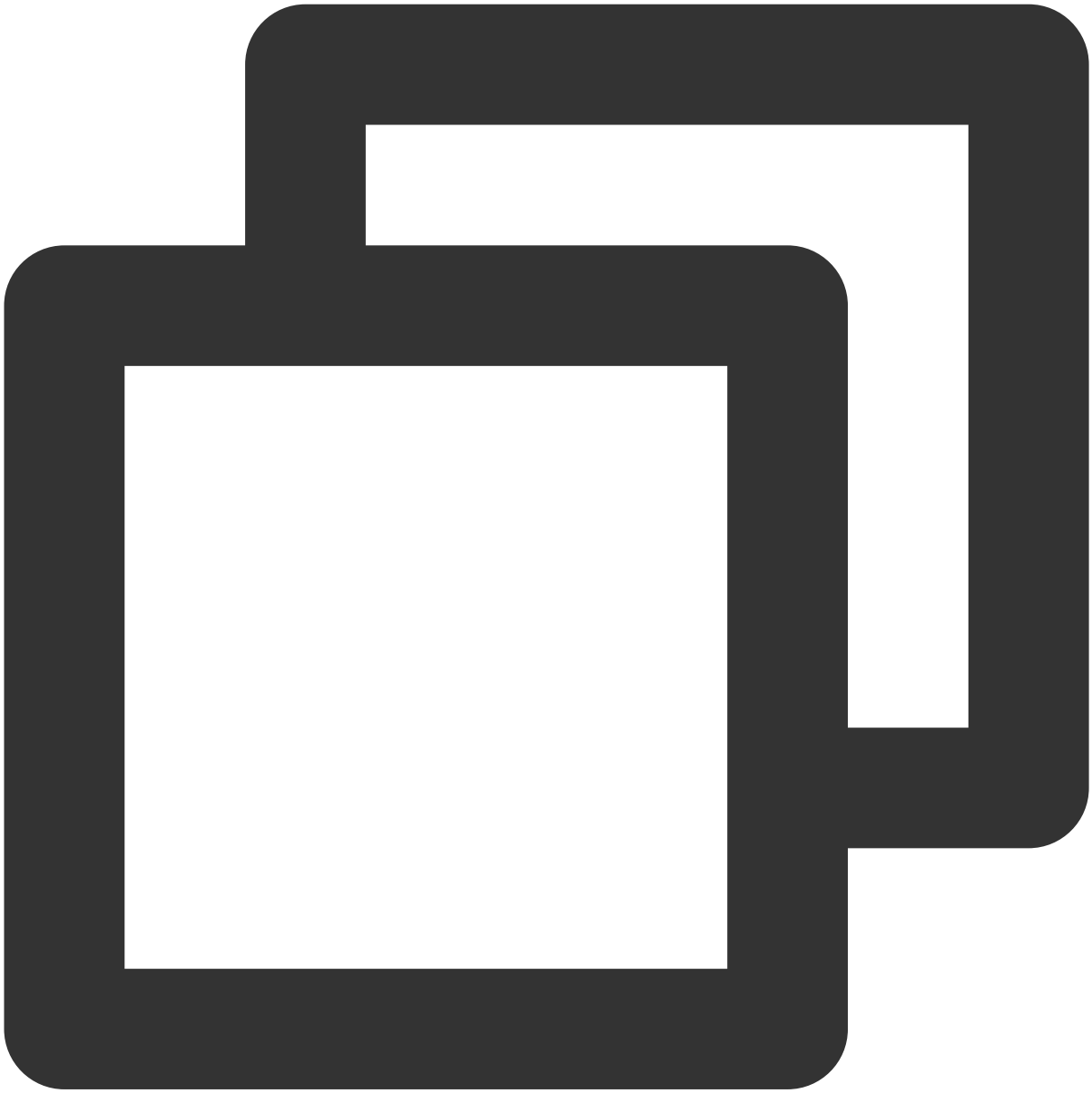
```
    onProgress: function(progressData) {
        console.log(JSON.stringify(progressData));
    },
    Headers: {
        // Use the `imageMogr2` API to scale the image (by specifying the width of t
        'Pic-Operations': '{"is_pic_info": 1, "rules": [{"fileid": "desample_photo.j
   },
}, function(err, data) {
   console.log(err || data);
});
```

Processing In-Cloud Image

The following example shows how to process an image stored in COS and save the processing result to COS.

Sample code

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```
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Key: 'exampleobject',
    Method: 'POST',
    Action: 'image_process',
    Headers: {
       // Use the `imageMogr2` API to scale the image (by specifying the width of t
      'Pic-Operations': '{"is_pic_info": 1, "rules": [{"fileid": "desample_photo.jp
    },
}, function (err, data) {
```

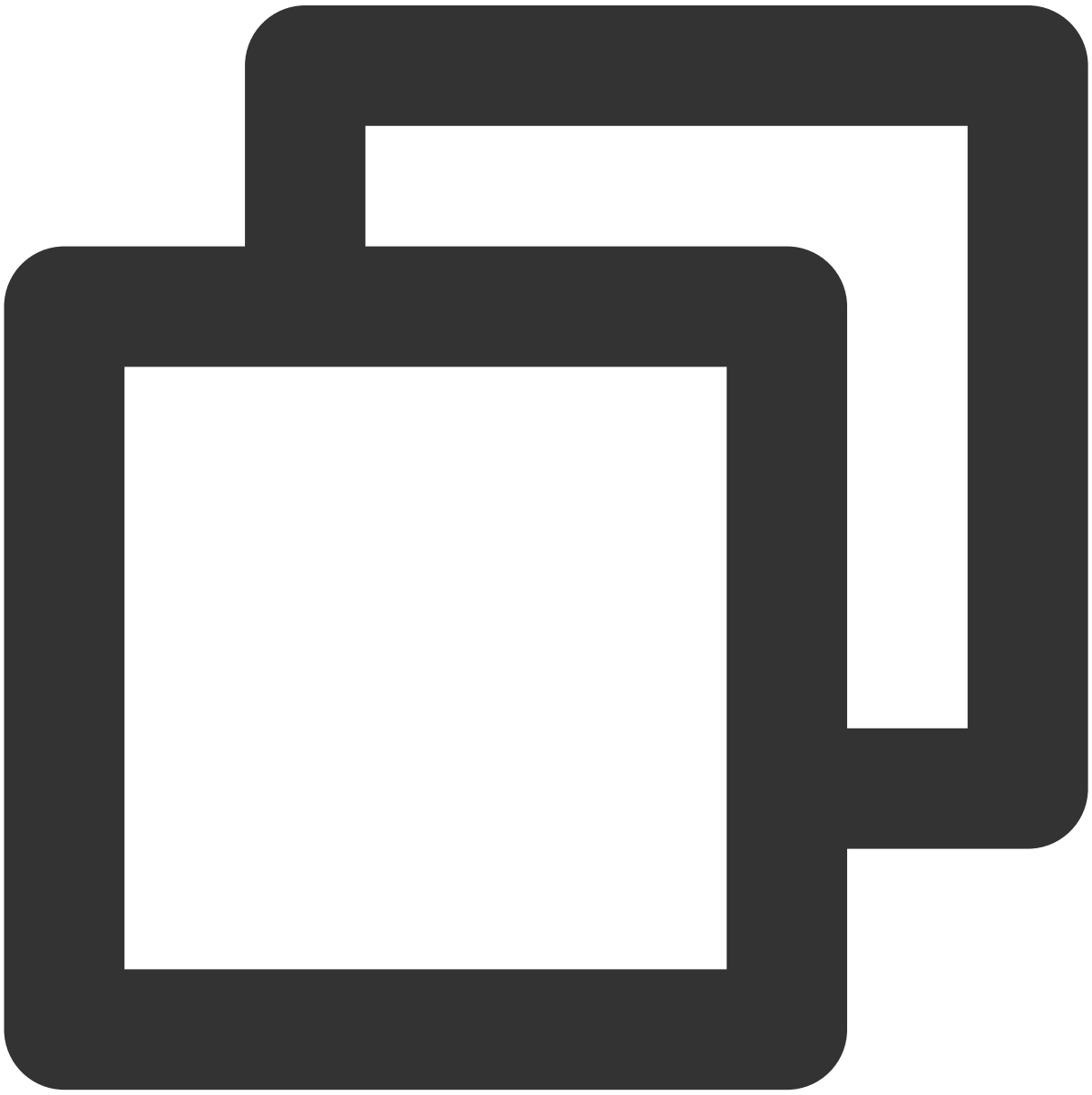
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```
    console.log(err || data);
});
```

Processing Image During Download

The following example shows how to process an image during download.

Sample code



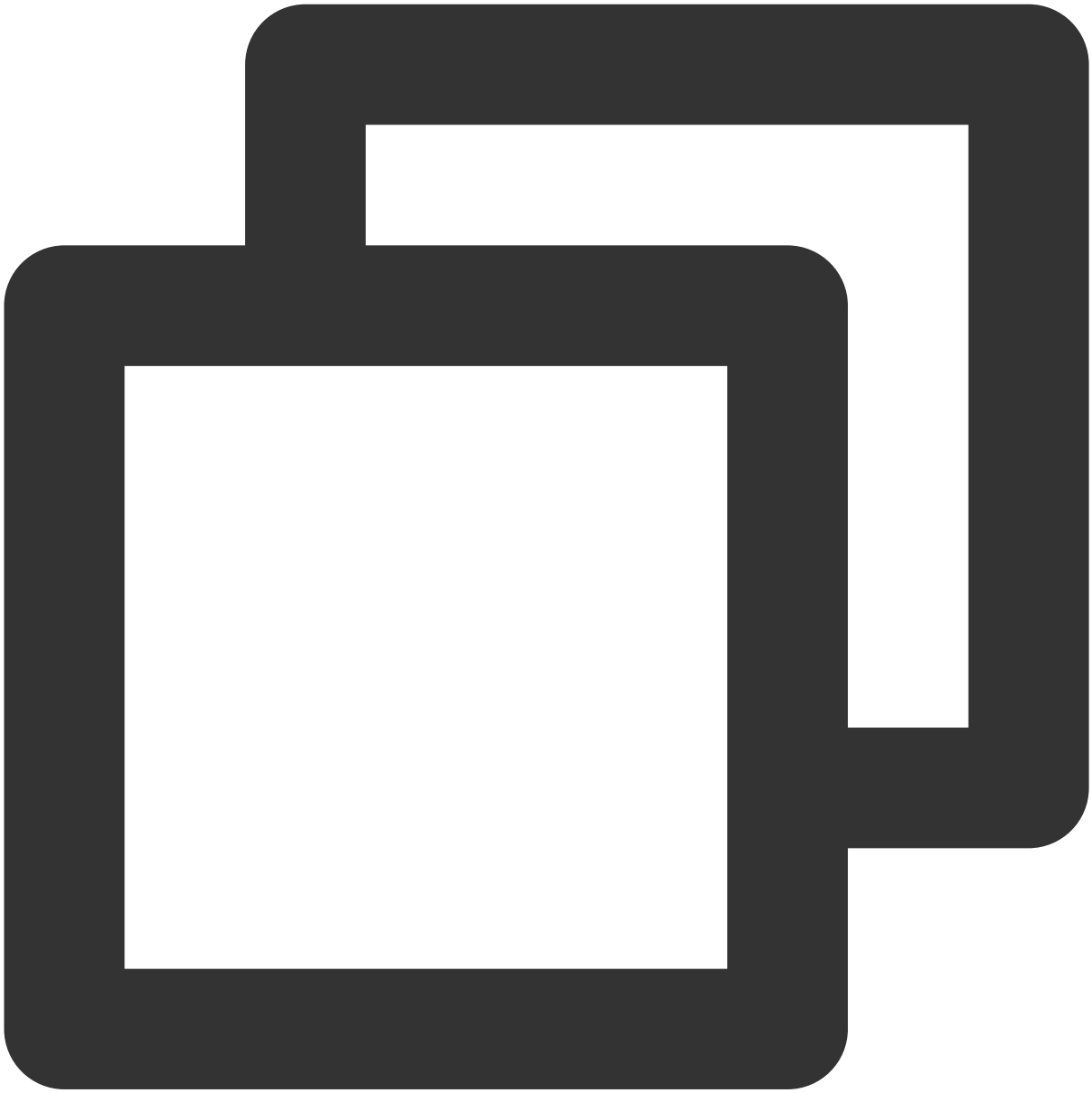
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```
cos.getObject({
    Bucket: 'examplebucket-1250000000',
    Region: 'COS_REGION',
    Key: 'exampleobject',
    QueryString: `imageMogr2/thumbnail/200x/`,
}, function (err, data) {
   console.log(err || data);
   fs.writeFileSync('filepath', data.Body);  // Save the image locally
});
```

Generating Signed URL with Image Processing Parameters

Sample code

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```
// Generate a signed URL (valid for 30 minutes) with image processing parameters.
var url1 = cos.getObjectUrl({
    Bucket: 'examplebucket-1250000000',
    Region: 'COS_REGION',
    Key: 'exampleobject',
    Query: {
      `imageMogr2/thumbnail/200x/`: ''
    },
    Expires: 1800,
    Sign: true,
}, function (err, data) {
```

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```
    if(data){
        console.log(data.Url);
    }
});

// Generate an unsigned URL with image processing parameters.
var url2 = cos.getObjectUrl({
    Bucket: 'examplebucket-1250000000',
    Region: 'COS_REGION',
    Key: 'exampleobject',
    Query: {
      `imageMogr2/thumbnail/200x/`: ''
    },
    Sign: false,
}, function (err, data) {
    if(data){
        console.log(data.Url);
    }
});
```

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Blind Watermark

Last updated：2024-03-01 14:25:48

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.

For blind watermark APIs, see Blind Watermarking.

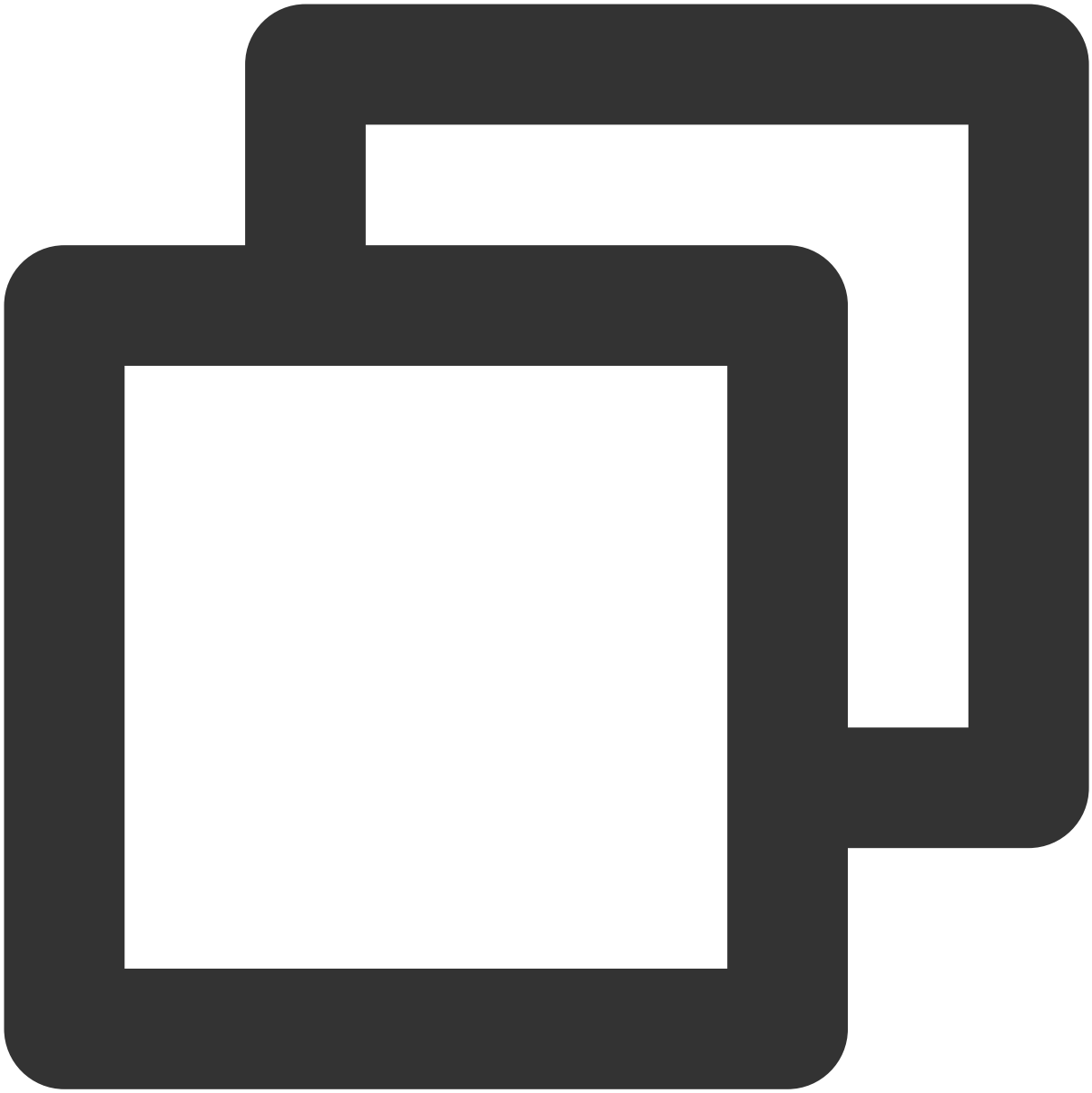
Adding Blind Watermark

Feature description

You can add a blind watermark when uploading or downloading an object.

Sample 1: Adding a blind watermark during upload

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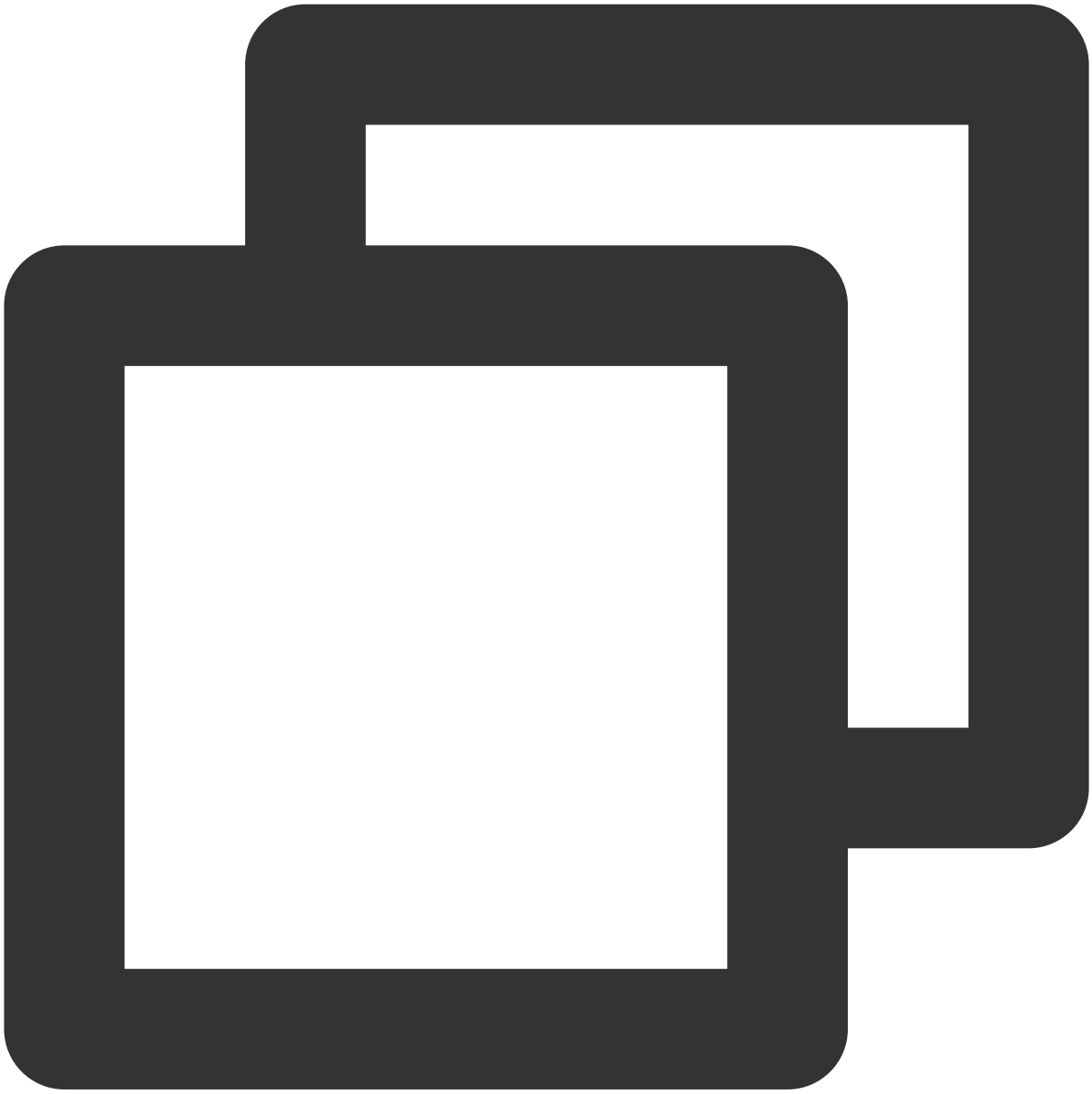


```
const filePath = "temp-file-to-upload" // Local file path
cos.putObject({
    Bucket: 'examplebucket-1250000000',
    Region: 'COS_REGION',
    Key: 'exampleobject',
    Body: fs.createReadStream(filePath), // Uploaded file object
    Headers: {
        // CI's persistent processing API during upload
        'Pic-Operations': '{"is_pic_info": 1, "rules": [{"fileid": "desample_photo.j
  },
}, function(err, data) {
```

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```
    console.log(err || data);
});
```

Sample 2: Adding a blind watermark during download



```
cos.getObject({
    Bucket: 'examplebucket-1250000000',
    Region: 'COS_REGION',
    Key: 'exampleobject',
    QueryString: 'watermark/3/type/1/image/aHR0cDovL2V4YW1wbGVzLTEyNTEwMDAwMDQucGlj
}, function (err, data) {
```

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```
    console.log(err || data);
    fs.writeFileSync('filepath', data.Body);  // Save the image locally
});
```

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Media Processing
Media Bucket APIs

Last updated：2024-03-01 14:25:48

Overview

This document provides an overview of APIs and SDK code samples for media buckets.

API	Operation	Description
DescribeMediaBuckets	Querying media processing activation status	Queries buckets with media processing enabled

Querying Media Processing Activation Status

Feature description

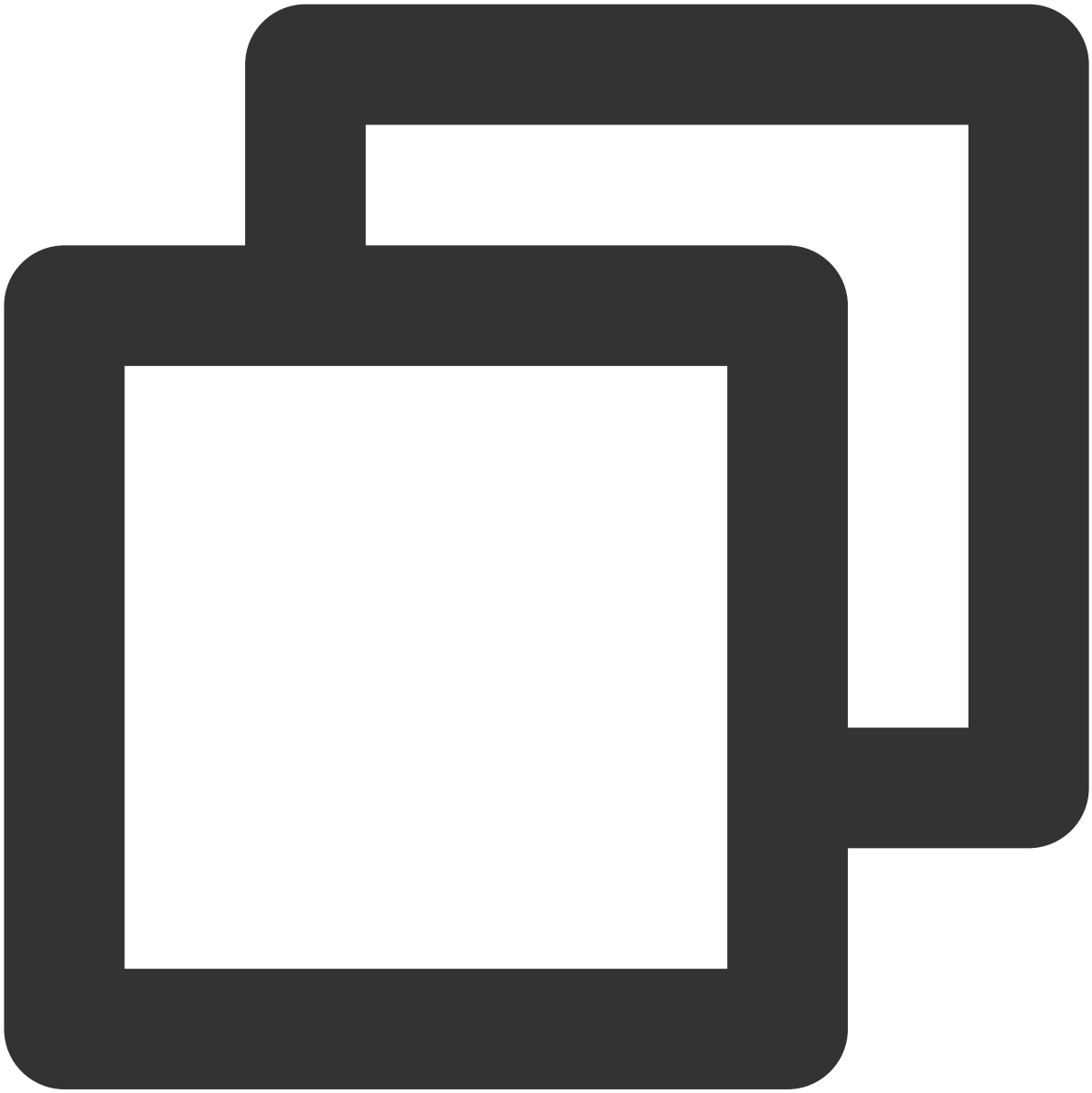
This API is used to query buckets with media processing enabled.

Note:

The COS Node.js SDK version must be at least v2.11.2.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
var host = 'ci.' + config.Region + '.myqcloud.com';
var url = 'https://' + host + '/mediabucket';
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
```

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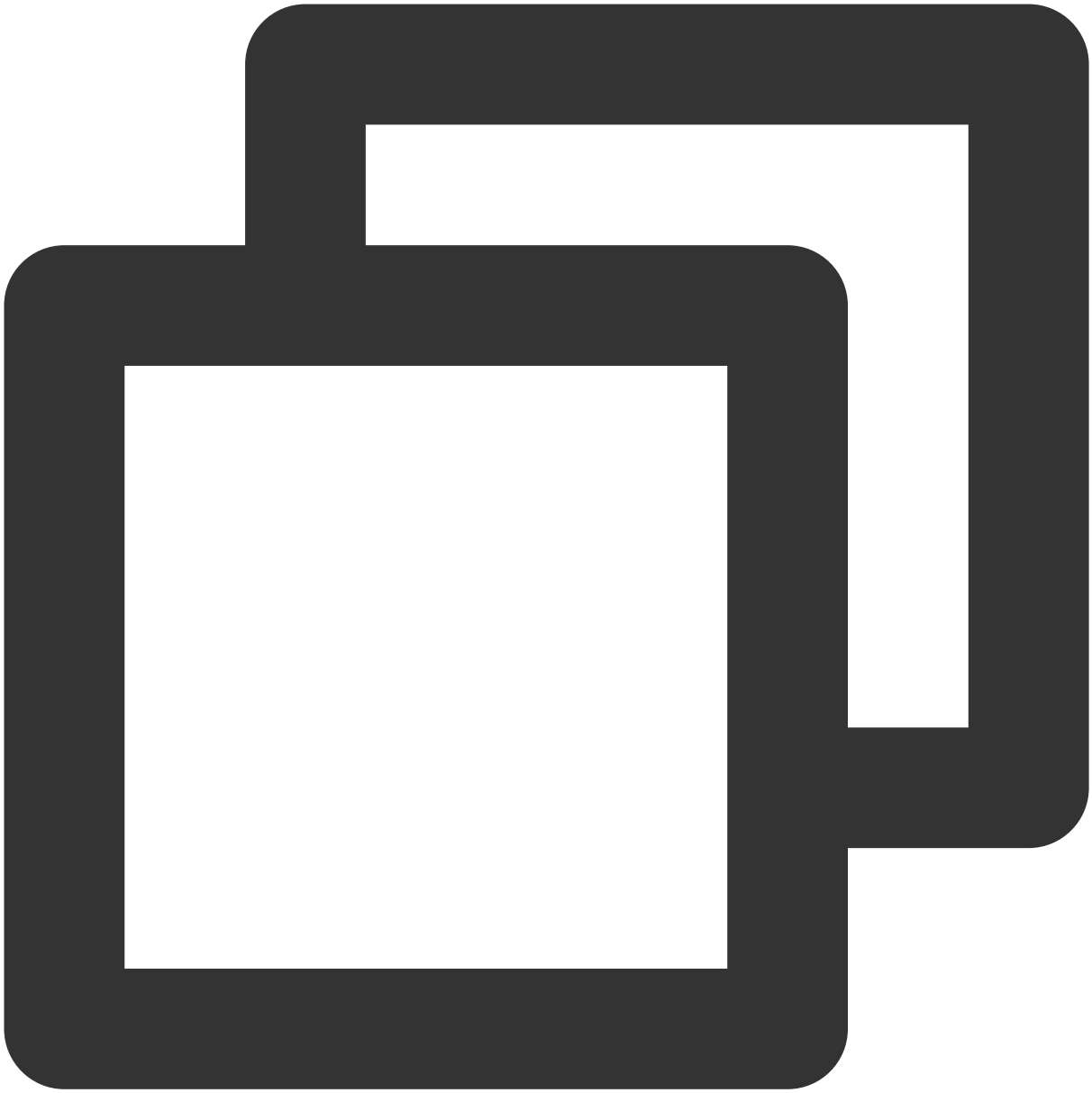
```
    Key: 'mediabucket', /** Fixed value (required) */
    Url: url,
    Query: {
        pageNumber: '1', /** Page number (optional) */
        pageSize: '10', /** Number of entries per page (optional) */
        // regions: 'ap-chengdu', /** Region (optional), such as 'ap-beijing'. To s
        // bucketNames: 'test-1250000000', /** Bucket name (optional), such as 'tes
        // bucketName: 'test', /** Bucket name prefix for prefix search (optional),
    }
}, function (err, data) {
    console.log(err || data);
});
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Fixed value: mediabucket.	String	Yes
PageNumber	Page number.	String	No
PageSize	Number of entries per page.	String	No
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

Callback function description

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```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object

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data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200`, `403`, and `404`.	Number
- headers	Returned headers.	Object
- Response	Response result.	Object
- - RequestId	Unique ID of the request.	String
- - TotalCount	Total number of media buckets.	String
- - PageNumber	Current page number, which is the same as `pageNumber` in the request.	String
- - PageSize	Number of entries per page, which is the same as `pageSize` in the request.	String
- - MediaBucketList	Media bucket list.	Object
- - - BucketId	Bucket ID.	String
- - - Name	Bucket name, which is the same as `BucketId`.	String
- - - Region	Region.	String
- - - CreateTime	Creation time.	String

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Media Information APIs

Last updated：2024-03-01 14:25:48

Overview

This document provides an overview of APIs and SDK code samples for media information.

Note:

The COS Node.js SDK version must be at least v2.11.2.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

Querying File Information

Feature description

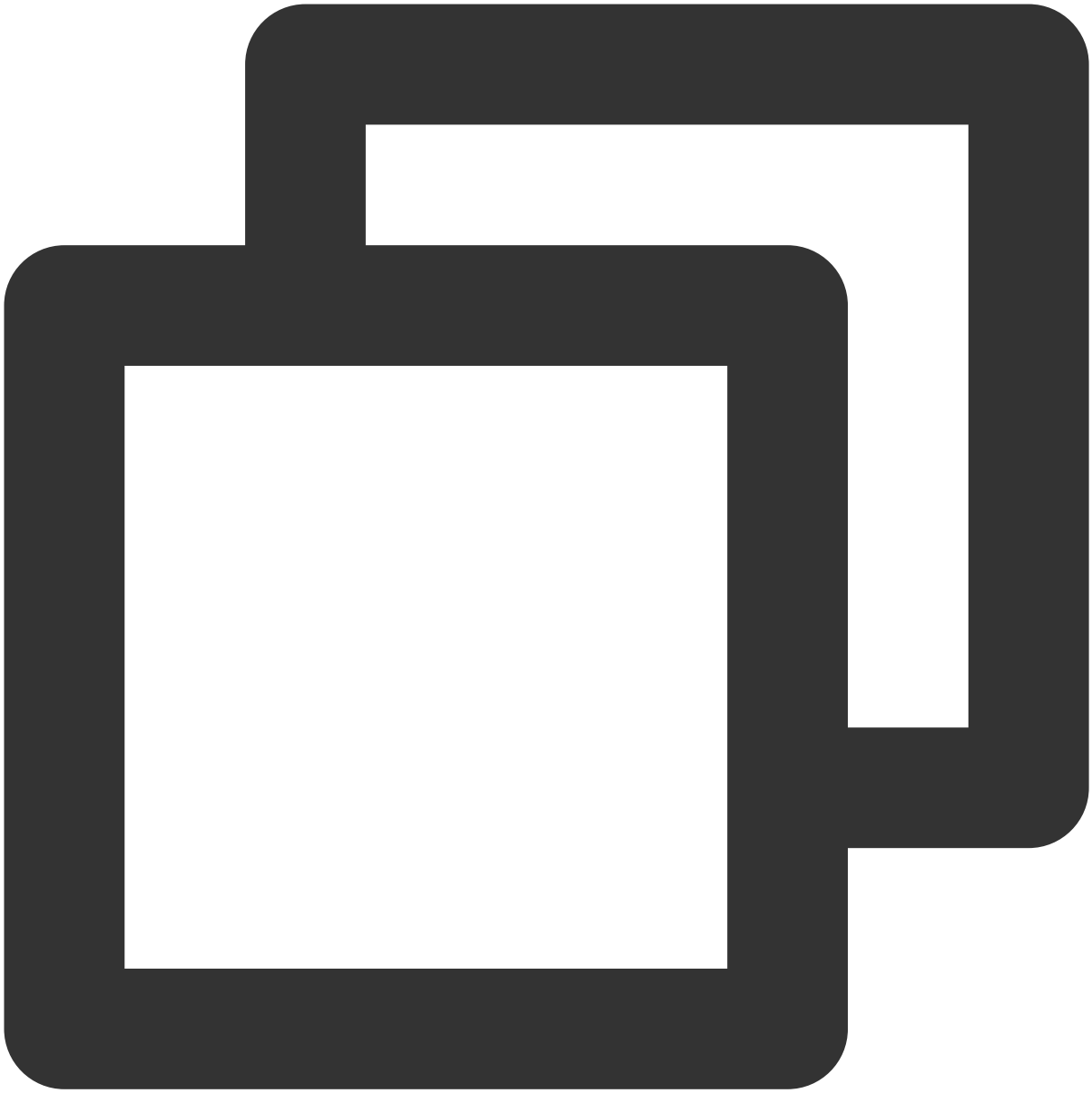
This API is used to query the information of a media file.

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
    Key: 'test.mp4',  /* Media file in bucket (required) */
    Query: {
```

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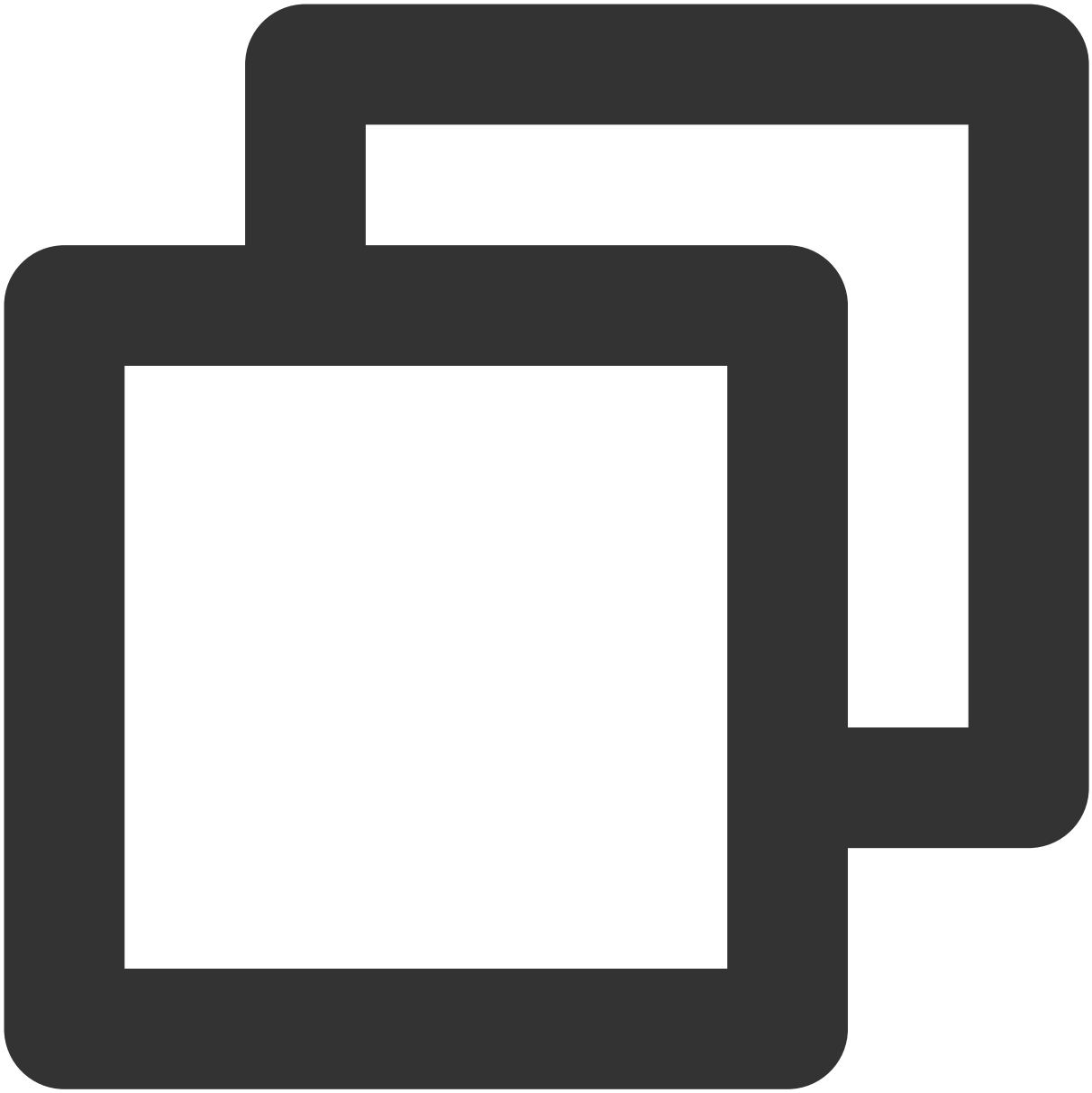
```
        'ci-process': 'videoinfo' /** Fixed value (required) */
    }
}, function (err, data) {
    console.log(err || data);
});
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Fixed value: mediabucket.	String	Yes
ci-process	Operation type, which is fixed at `videoinfo` .	String	Yes

Callback function description

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```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object

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data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200`, `403`, and `404`.	Number
- headers	Returned headers.	Object
- RequestId	Unique ID of the request.	String
- Response	Response result.	Object
- - MediaInfo	Media details.	Object
- - - Stream	Stream information.	Object
- - - - Video	Video information.	Container
- - - - - Index	Stream number.	Number
- - - - - CodecName	Codec format name.	String
- - - - - CodecLongName	Detailed name of the codec format	String
- - - - - CodecTimeBase	Codec timebase.	String
- - - - - CodecTagString	Codec tag name.	String
- - - - - CodecTag	Codec tag.	String
- - - - - Profile	Video codec profile.	String
- - - - - Height	Video height in px.	Number
- - - - - Width	Video width in px.	Number
- - - - - HasBFrame	Whether B-frames exist. 1: yes; 0: no.	Number
- - - - - RefFrames	Number of reference frames for video codec.	Number
- - - - - Sar	Sample aspect ratio.	String
- - - - - Dar	Display aspect ratio.	String
- - - - - PixFormat	Pixel format.	String
- - - - - FieldOrder	Field order.	String

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- - - - - Level	Video codec level.	Number
- - - - - Fps	Video frame rate.	Number
- - - - - AvgFps	Average frame rate.	String
- - - - - Timebase	Timebase.	String
- - - - - StartTime	Video start time in seconds.	Number
- - - - - Duration	Video duration in seconds.	Number
- - - - - Bitrate	Bitrate in Kbps.	Number
- - - - - NumFrames	Total number of frames.	Number
- - - - - Language	Language.	String
- - - - Audio	Audio information.	Container
- - - - - Index	Stream number.	Number
- - - - - CodecName	Codec format name.	String
- - - - - CodecLongName	Detailed name of the codec format.	String
- - - - - CodecTimeBase	Codec timebase.	String
- - - - - CodecTagString	Codec tag name.	String
- - - - - CodecTag	Codec tag.	String
- - - - - SampleFmt	Sample format.	String
- - - - - SampleRate	Sample rate.	Number
- - - - - Channel	Number of channels.	Number
- - - - - ChannelLayout	Channel layout.	String
- - - - - Timebase	Timebase.	String
- - - - - StartTime	Audio start time in seconds.	Number
- - - - - Duration	Audio duration in seconds.	Number

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- - - - - Bitrate	Bitrate in Kbps.	Number
- - - - - Language	Language.	String
- - - - Subtitle	Subtitles information.	Container
- - - - - Index	Stream number.	Number
- - - - - Language	Language. `und` indicates no query result.	String
- - - Format	Format information.	Object
- - - - NumStream	Number of streams (including videos, audios, and subtitles).	Number
- - - - NumProgram	Number of programs.	Number
- - - - FormatName	Container format name.	String
- - - - FormatLongName	Detailed name of the container format.	String
- - - - StartTime	Start time in seconds.	Number
- - - - Duration	Duration in seconds.	Number
- - - - Bitrate	Bitrate in Kbps.	Number
- - - - Size	Size in bytes.	Number

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Media Screenshot APIs

Last updated：2024-03-01 14:25:48

Overview

This document provides an overview of APIs and SDK code samples for media screenshot.

Note:

The COS Node.js SDK version must be at least v2.11.2.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

Querying Screenshot

Feature description

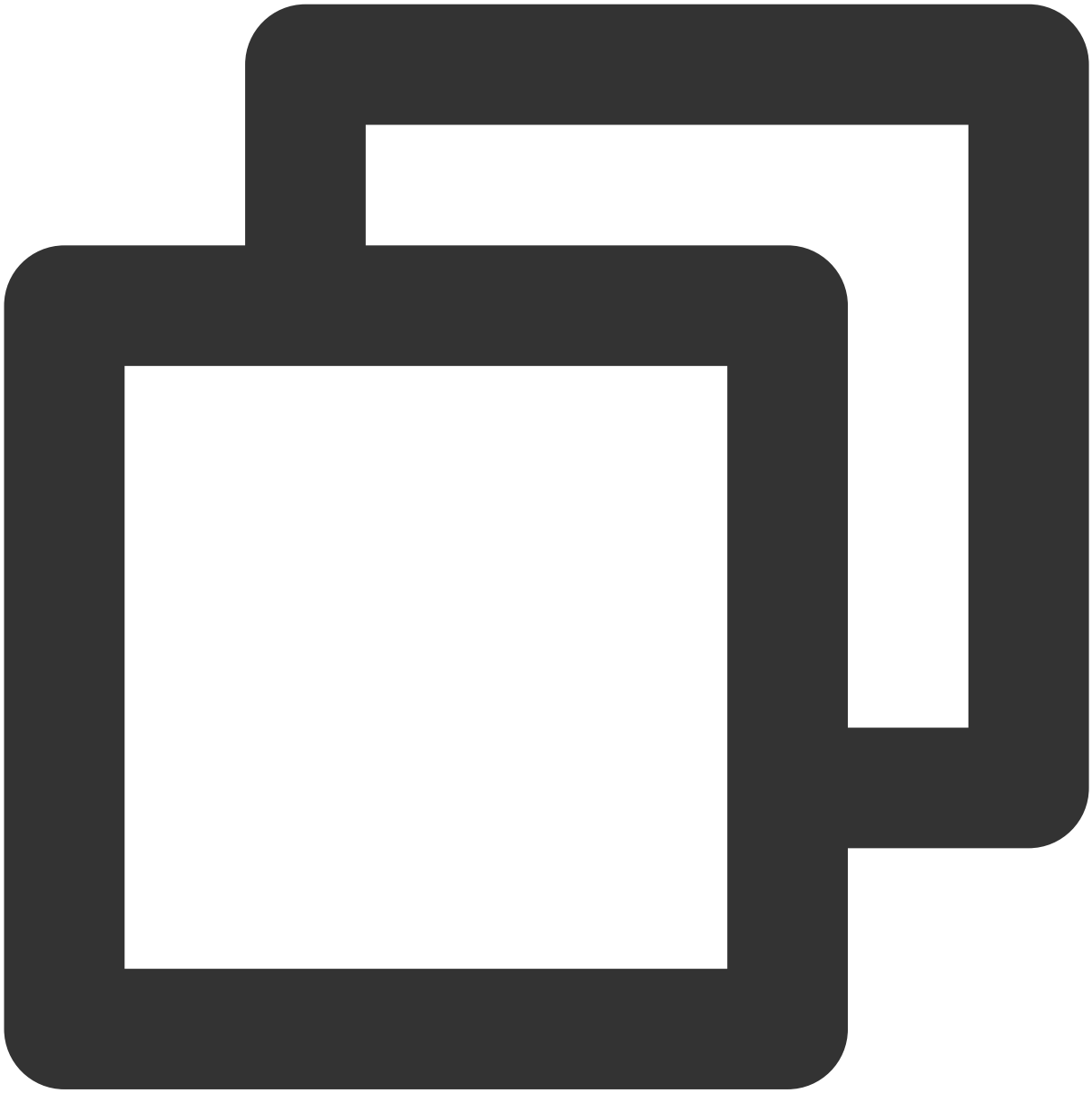
This API is used to query the screenshot of a media file at some time point.

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
    Key: 'test.mp4',  /* Media file in bucket (required) */
    Query: {
```

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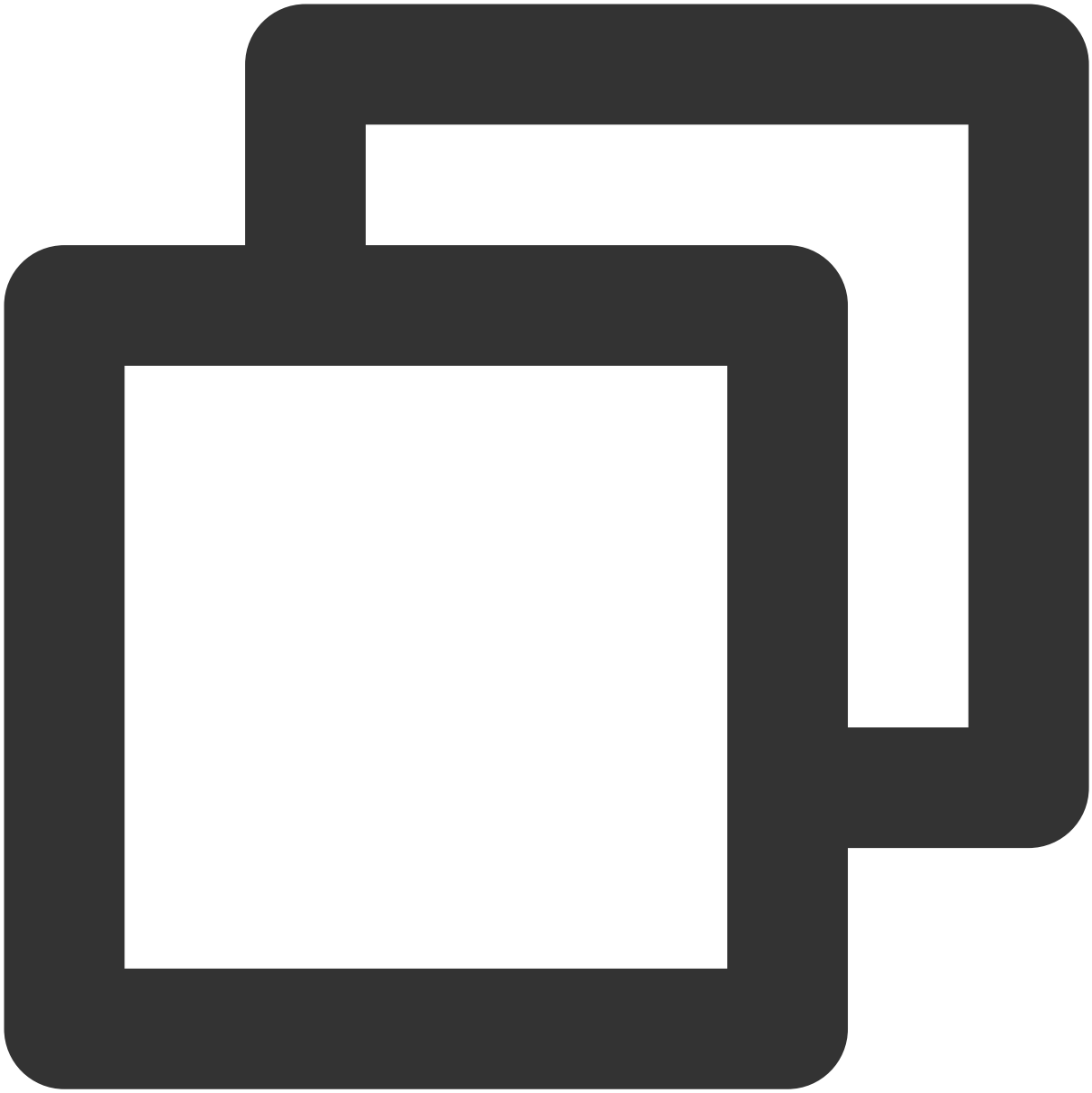
```
            'ci-process': 'snapshot', /** Fixed value (required) */
            time: 1, /** Screenshot time point in seconds (required) */
            // width: 0, /** Screenshot width (optional) */
            // height: 0, /** Screenshot height (optional) */
            // format: 'jpg', /** Screenshot format (optional). Valid values: jpg; png.
            // rotate: 'auto', /** Image rotation method (optional). Default value: aut
            // mode: 'exactframe', /** Frame capturing method (optional). Default value
        },
        RawBody: true,
    },
    function(err, data){
        console.log(err || data);
    });
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Object key (object name), which is the unique identifier of the object in the bucket. For more information, see Object Overview.	String	Yes
ci-process	Operation type, which is fixed at `snapshot` .	String	Yes
time	Screenshot time point in seconds.	Number	Yes
width	Screenshot width. Default value: 0.	Number	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.	Number	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

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Callback function description



```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number

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- headers	Returned headers.	Object
data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object
- RequestId	Unique ID of the request.	String
- Body	Returned file content, which is in string format by default.	String

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PHP SDK
Getting Started

Last updated：2024-03-01 14:43:58

Download and Installation

Relevant resources

Download the source code for the COS XML PHP SDK here.

Download the XML PHP SDK here.

Download the PHP demo here.

For the complete sample code, see SDK Sample Code.

For the SDK changelog, see Changelog.

For SDK FAQs, see PHP SDK FAQs.

Note:

If you encounter errors such as non-existent functions or methods when using the XML version of the SDK, please update the SDK to the latest version and try again.

Environmental dependencies

PHP 5.6+

You can run the `php -v` command to view the current PHP version.

Note:

If your PHP version is 5.3 or later and earlier than 5.6, please use v1.3.

cURL extension

XML extension

DOM extension

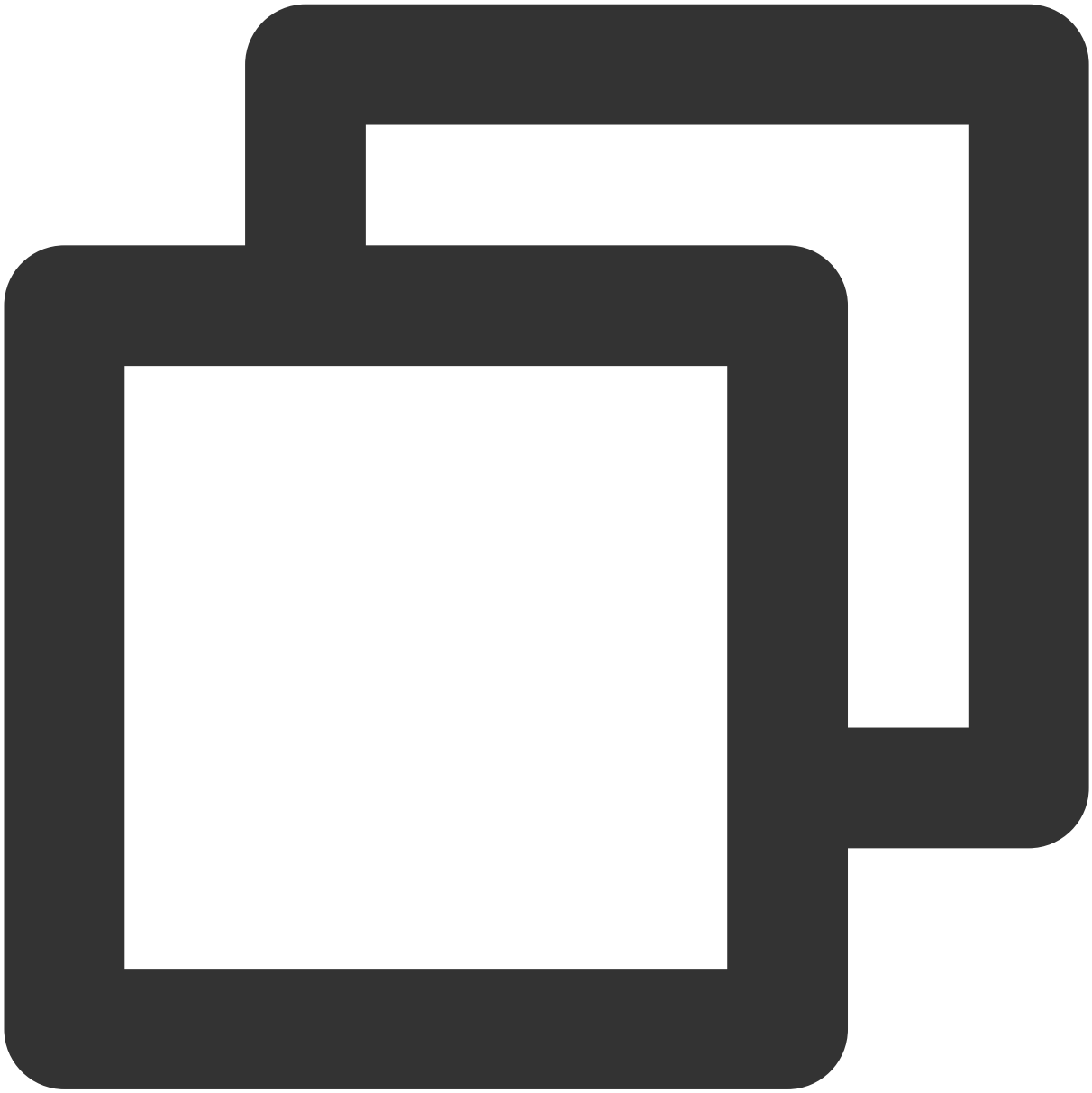
MBstring extension

JSON extension

You can run the `php -m` command to check whether the preceding extensions have been installed properly.

On Ubuntu, you can install PHP's extensions using the apt-get package manager with the following command:

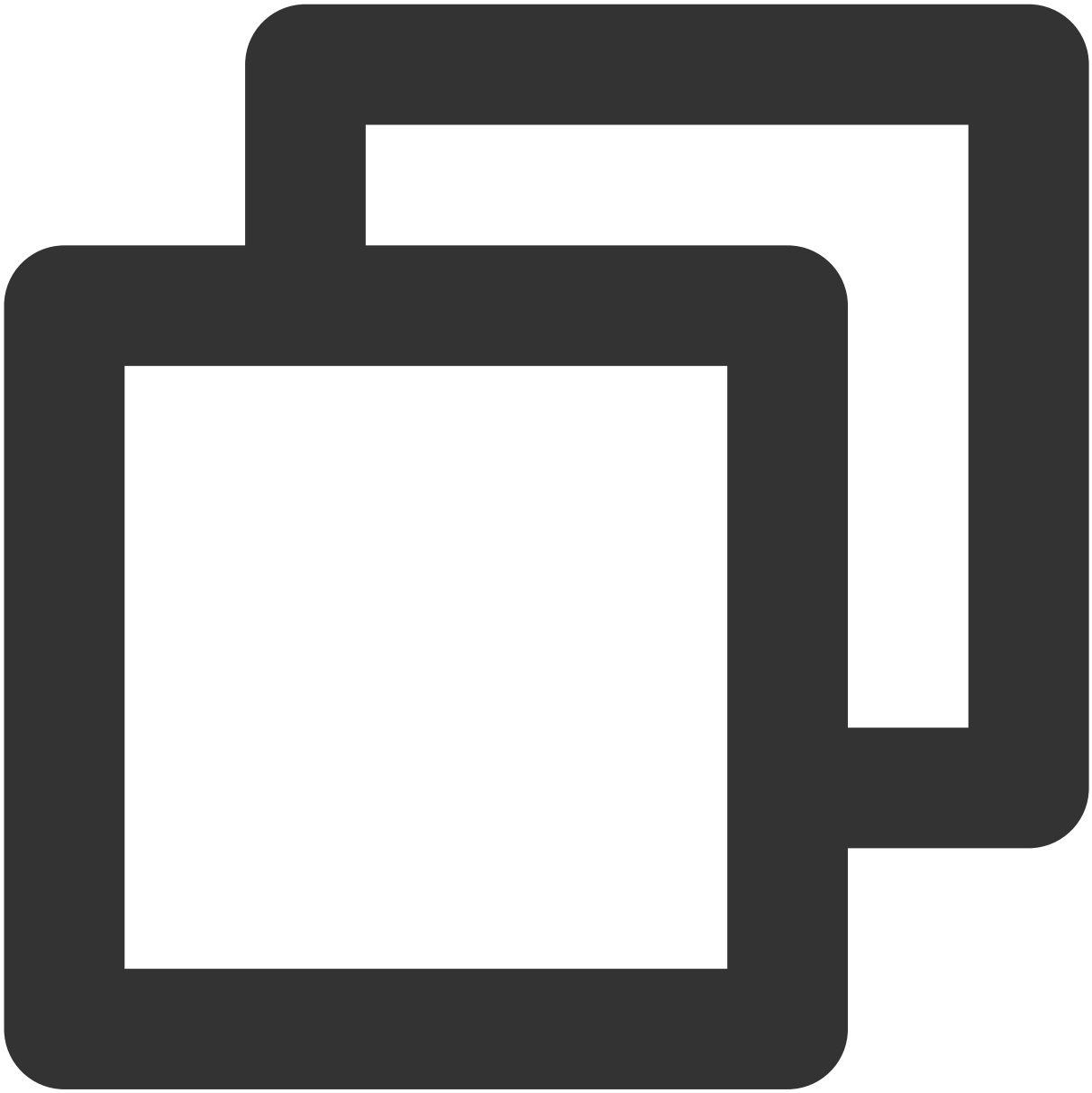
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```
sudo apt-get install php-curl php-xml php-dom php-mbstring php-json
```

On CentOS, you can install PHP's cURL extension using the yum package manager.

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```
sudo yum install php-curl php-xml php-dom php-mbstring php-json
```

Installing SDK

You can install the SDK using Composer, Phar, or the source code.

Composer

It is recommended to install cos-php-sdk-v5 with Composer, a PHP dependency manager that allows you to declare the dependencies necessary for your project and then automatically installs them into your project.

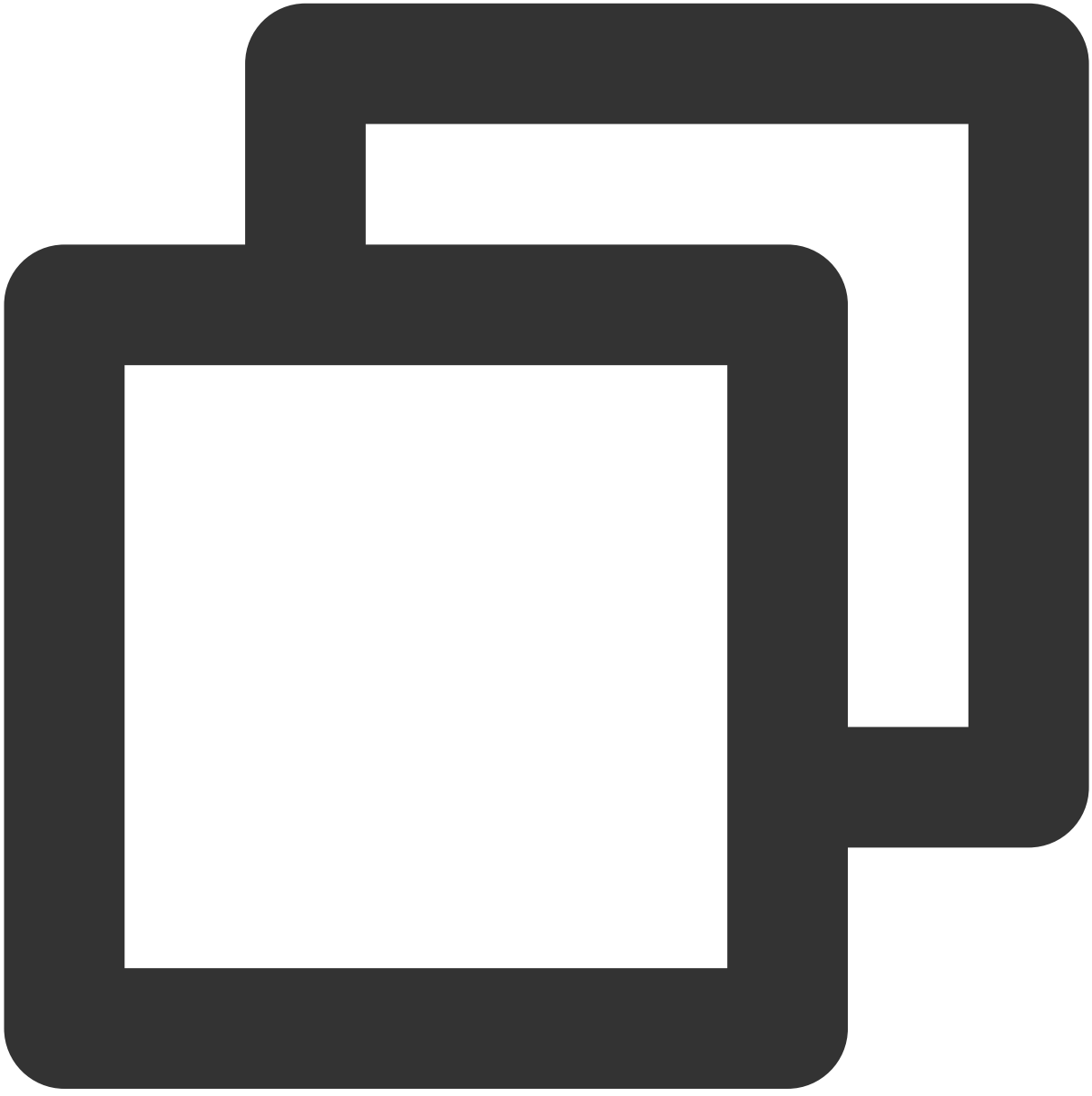
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Note:

You can find more information such as how to install Composer, how to configure auto-load, and other best practices for defining dependencies at the Composer website.

Directions

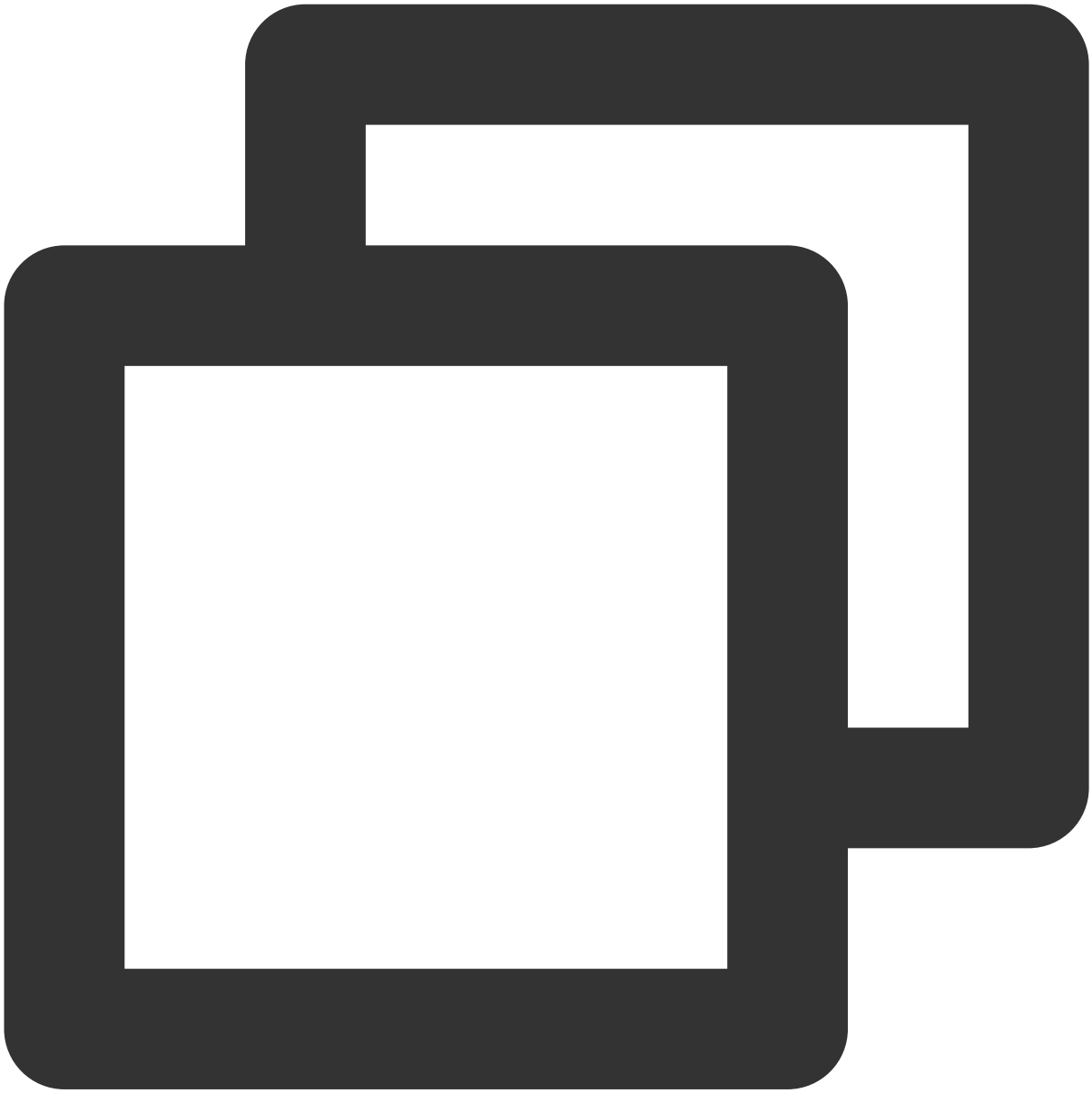
1. Open the terminal.
2. Run the following command to download Composer:



```
curl -sS https://getcomposer.org/installer | php
```

3. Create a file named `composer.json` with the following content:

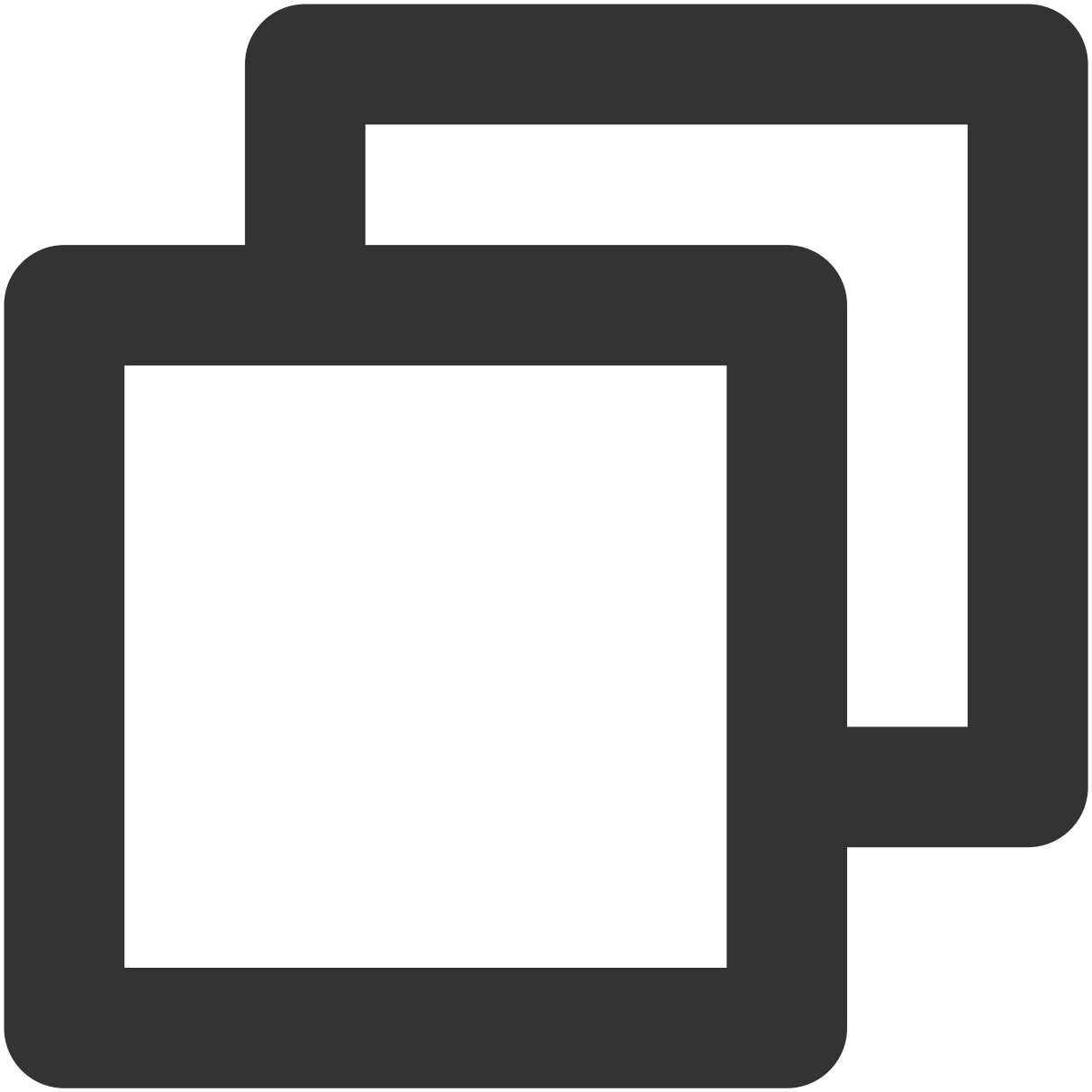
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```
{
 "require": {
     "qcloud/cos-sdk-v5": ">=2.0"
 }
}
```

4. Run the following command to install the SDK with Composer:

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```
php composer.phar install
```

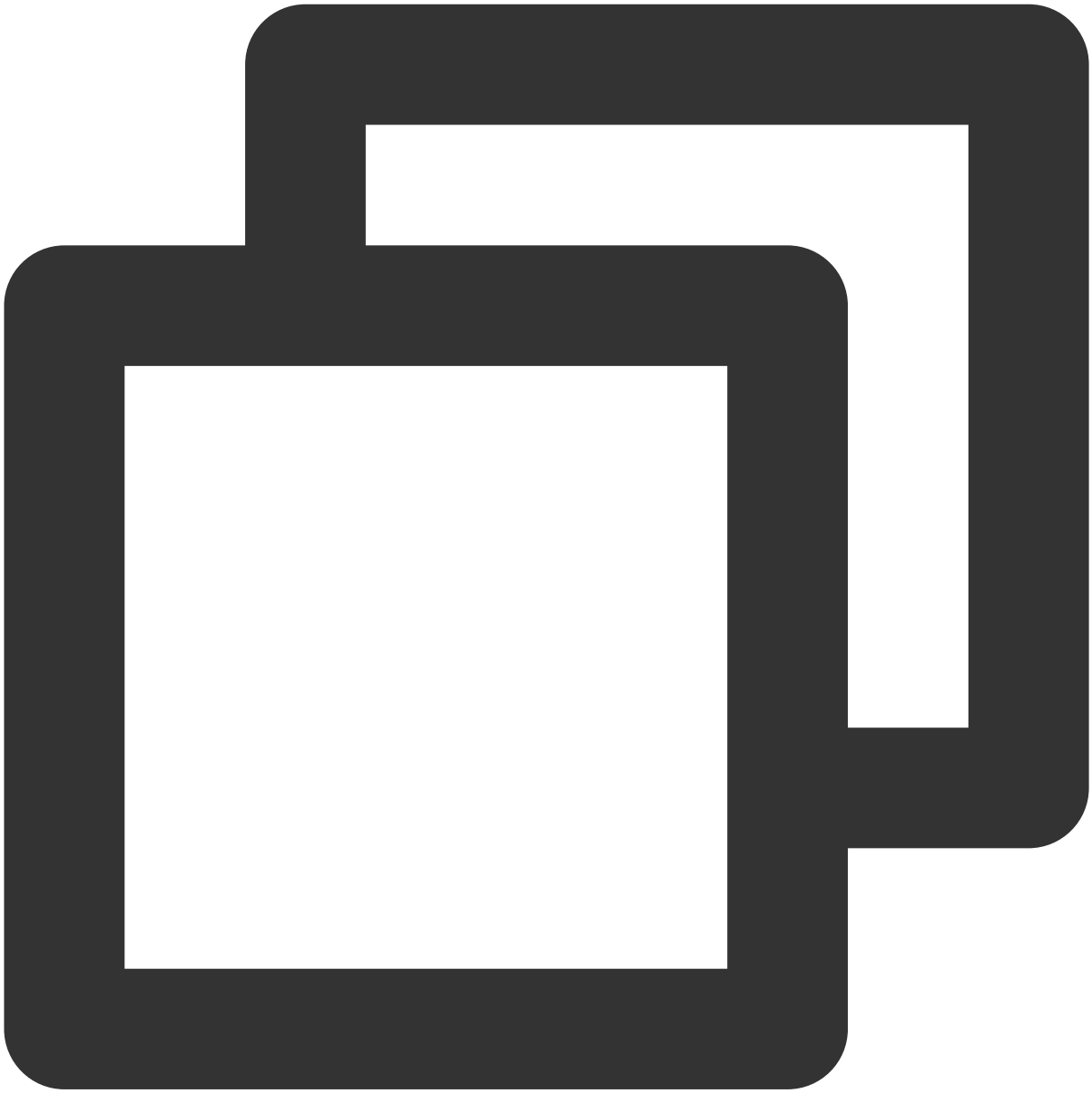
This command will create a `vendor` folder in the current directory. The folder will contain the SDK's dependent library and an `autoload.php` script file for future calls in your project.

Note:

Composer will download Guzzle 6 or Guzzle 7 according to the PHP version. Guzzle 7 supports the Laravel 8 framework. If the PHP version is or later than 7.2.5, Guzzle 7 will be downloaded by default. Otherwise, Guzzle 6 will be downloaded.

5. Run the `autoloader` script to call cos-php-sdk-v5 and import the `autoload.php` file into your code.

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```
require '/path/to/sdk/vendor/autoload.php';
```

Note:

After running the Composer installation command, you need to change the path here to the path to the `autoload.php` file. Otherwise, the corresponding method cannot be called. For example, if your installation path is `/Users/username/project`, set the referenced path in the project to `/Users/username/project/vendor/autoload.php`.

Now, you can use COS XML SDK for PHP in your project.

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Phar

Install the SDK using the Phar method as instructed below:

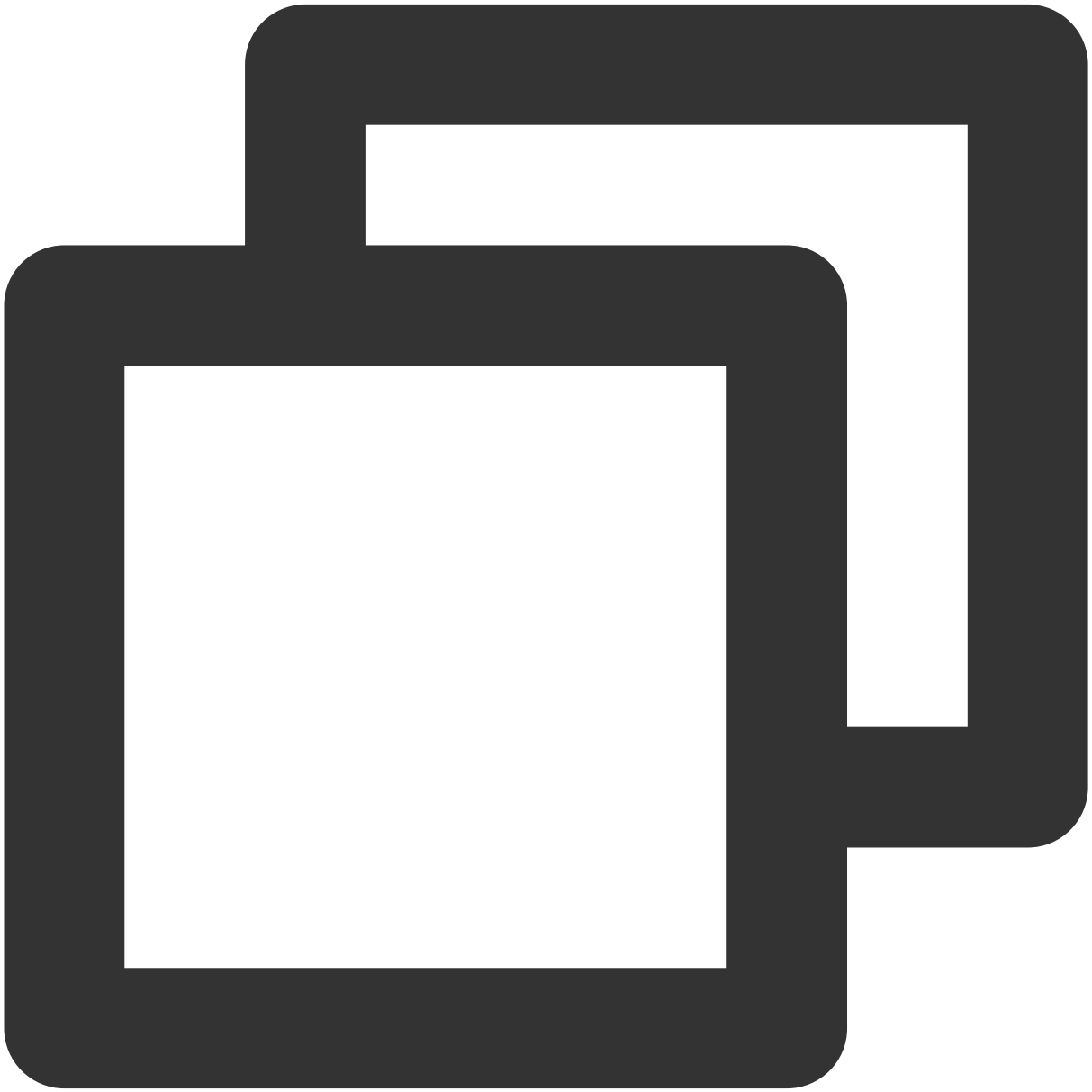
1. Download the phar file here.

Note:

If your PHP version is 5.6 or later and earlier than 7.2.5, download `cos-sdk-v5-6.phar` to use Guzzle 6.

If your PHP version is 7.2.5 or later, download `cos-sdk-v5-7.phar` to use Guzzle 7.

2. Import the phar file into your code.



```
require  '/path/to/cos-sdk-v5-x.phar';
```

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Source code

Install the SDK using the source code as instructed below:

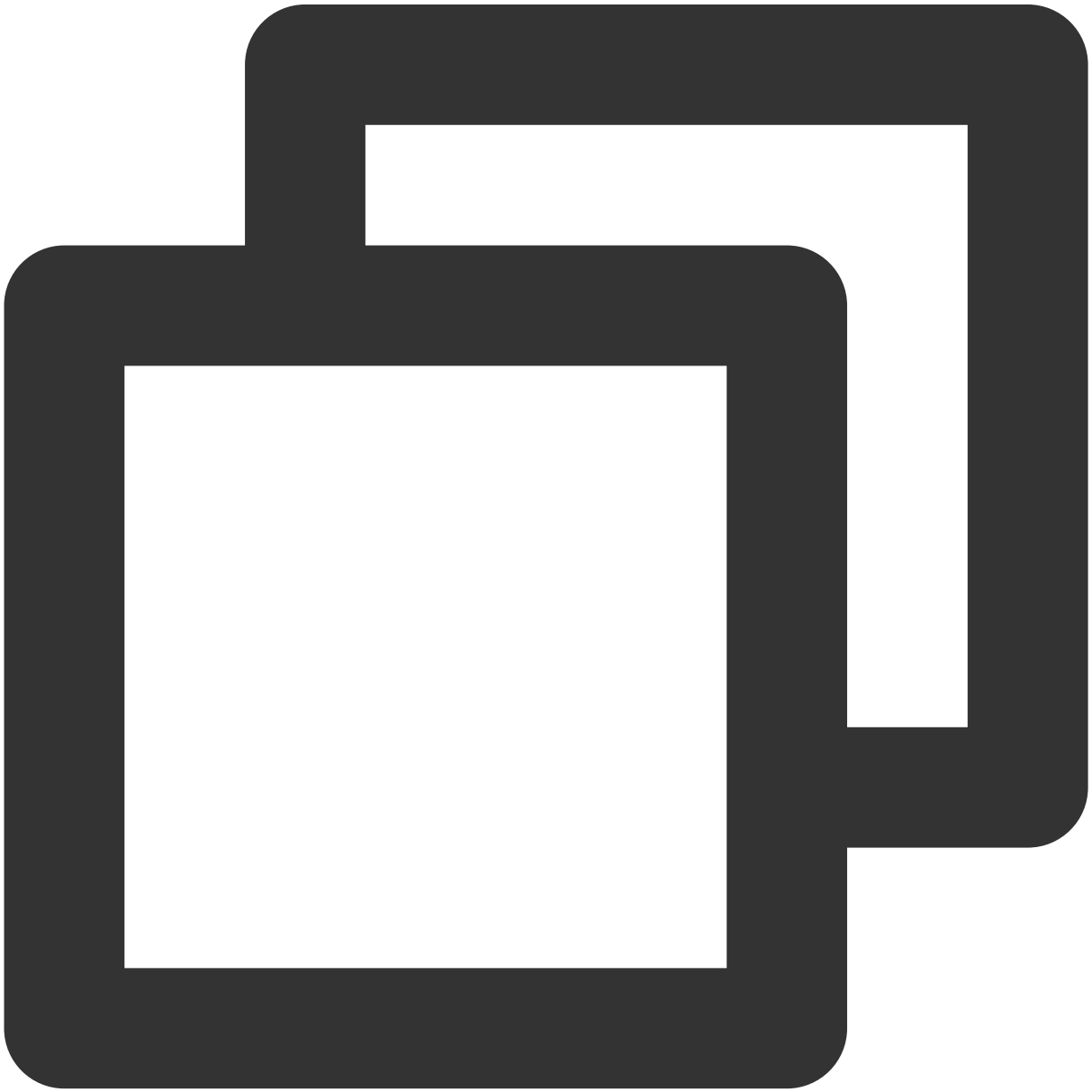
1. Download the `cos-sdk-v5.tar.gz` compressed file on the SDK releases page.

Note:

If your PHP version is 5.6 or later and earlier than 7.2.5, download `cos-sdk-v5-6.tar.gz` to use Guzzle 6.

If your PHP version is 7.2.5 or later, download `cos-sdk-v5-7.tar.gz` to use Guzzle 7.

2. Decompress the file and run the `autoload.php` script to load the SDK and import the `autoload.php` file into your code:



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```
require '/path/to/sdk/vendor/autoload.php';
```

Note:

`Source code` is the default GitHub-compressed code package, which does not include the `vendor` directory. Note that you should download the release package (`cos-sdk-v5-x.tar.gz`) rather than the Source package, and should not clone the entire repository (otherwise, `index.php` and the vendor package will be missing).

Getting Started

The following describes how to use the PHP SDK of COS to perform basic operations, such as initializing the client, creating a bucket, querying the bucket list, uploading an object, querying the object list, downloading an object, and deleting an object. For more information about the parameters involved in the samples, see Bucket Operations and Object Operations.

Initialization

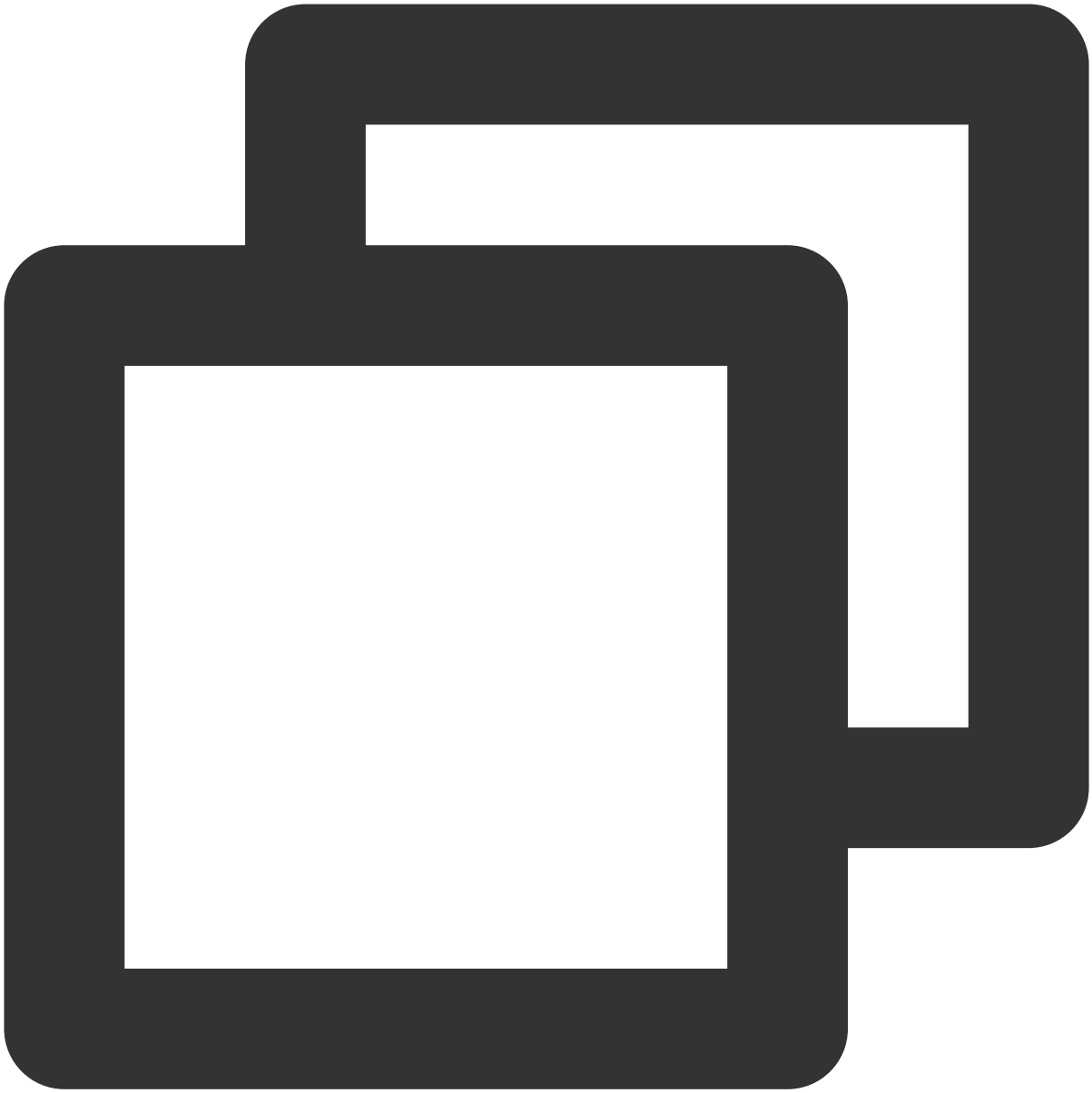
Note:

We recommend you use a sub-account key and environment variables to call the SDK for security purposes. When authorizing a sub-account, follow the Notes on Principle of Least Privilege to avoid leaking resources besides your buckets and objects.

If you must use a permanent key, we recommend you follow the Notes on Principle of Least Privilege to limit the scope of permission on the permanent key.

If you initialize a client with a temporary key, create an instance in the following way.

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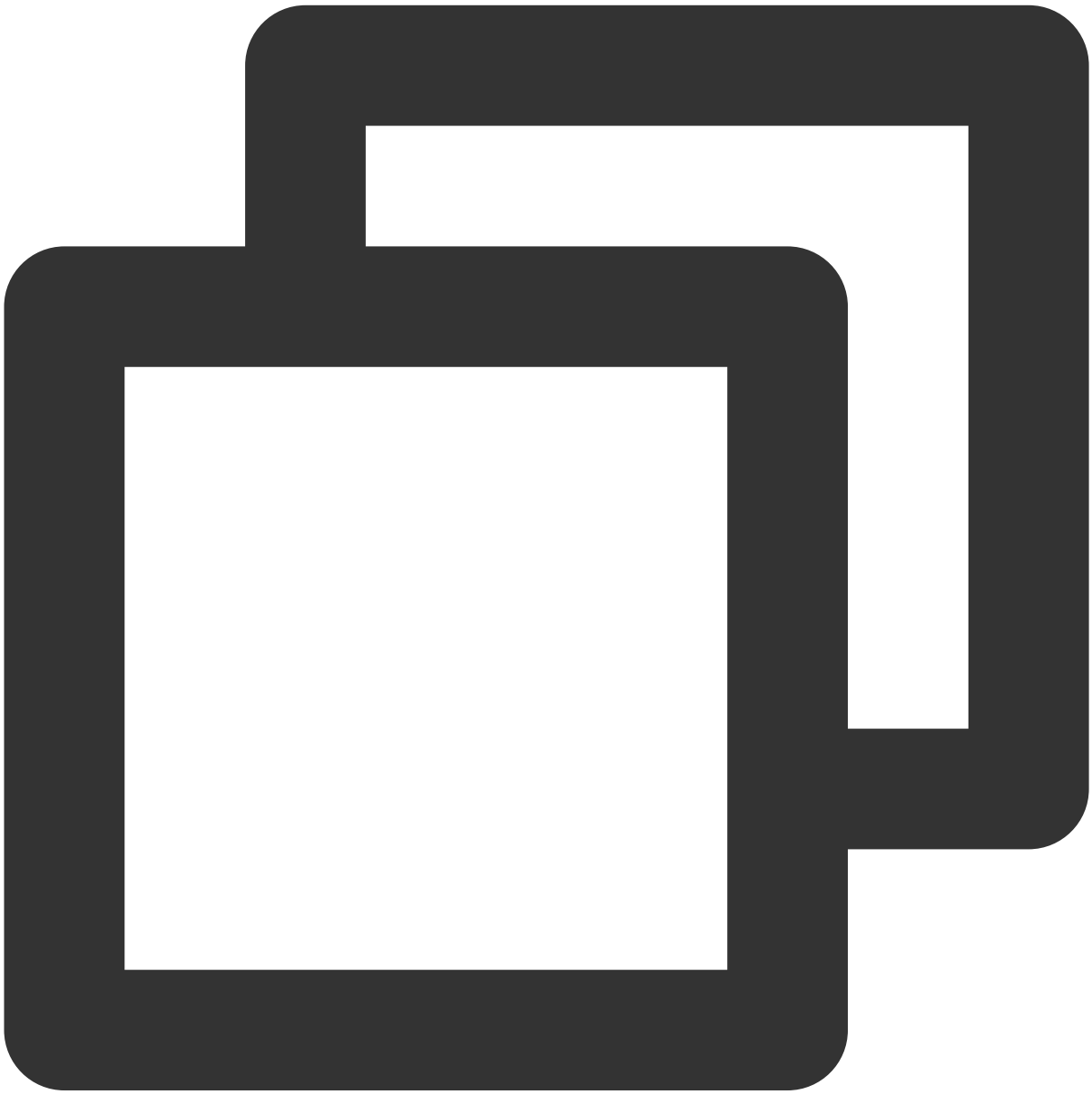


```
$tmpSecretId = "TmpSecretId"; //SecretId of a temporary key. For more information a
$tmpSecretKey = "TmpSecretKey"; //SecretKey of a temporary key. For more informatio
$tmpToken = "TmpToken"; //Token of a temporary key. For more information about how
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
        'credentials'=> array(
            'secretId'  => $tmpSecretId,
            'secretKey' => $tmpSecretKey,
```

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```
            'token' => $tmpToken)));
```

If you use a permanent key to initialize a `COSClient`, you need to get your `SecretId` and `SecretKey` on the API Key Management page in the CAM console. A permanent key is suitable for most application scenarios.



```
// You can log in to the CAM console to view and manage the `SecretId` and `SecretK
$secretId = getenv('COS_SECRET_ID'); // User `SecretId`. We recommend you use a sub
$secretKey = getenv('COS_SECRET_KEY'); // User `SecretKey`. We recommend you use a
$region = "ap-beijing"; //User `region`, which can be viewed in the console at http
$cosClient = new Qcloud\\Cos\\Client(
    array(
```

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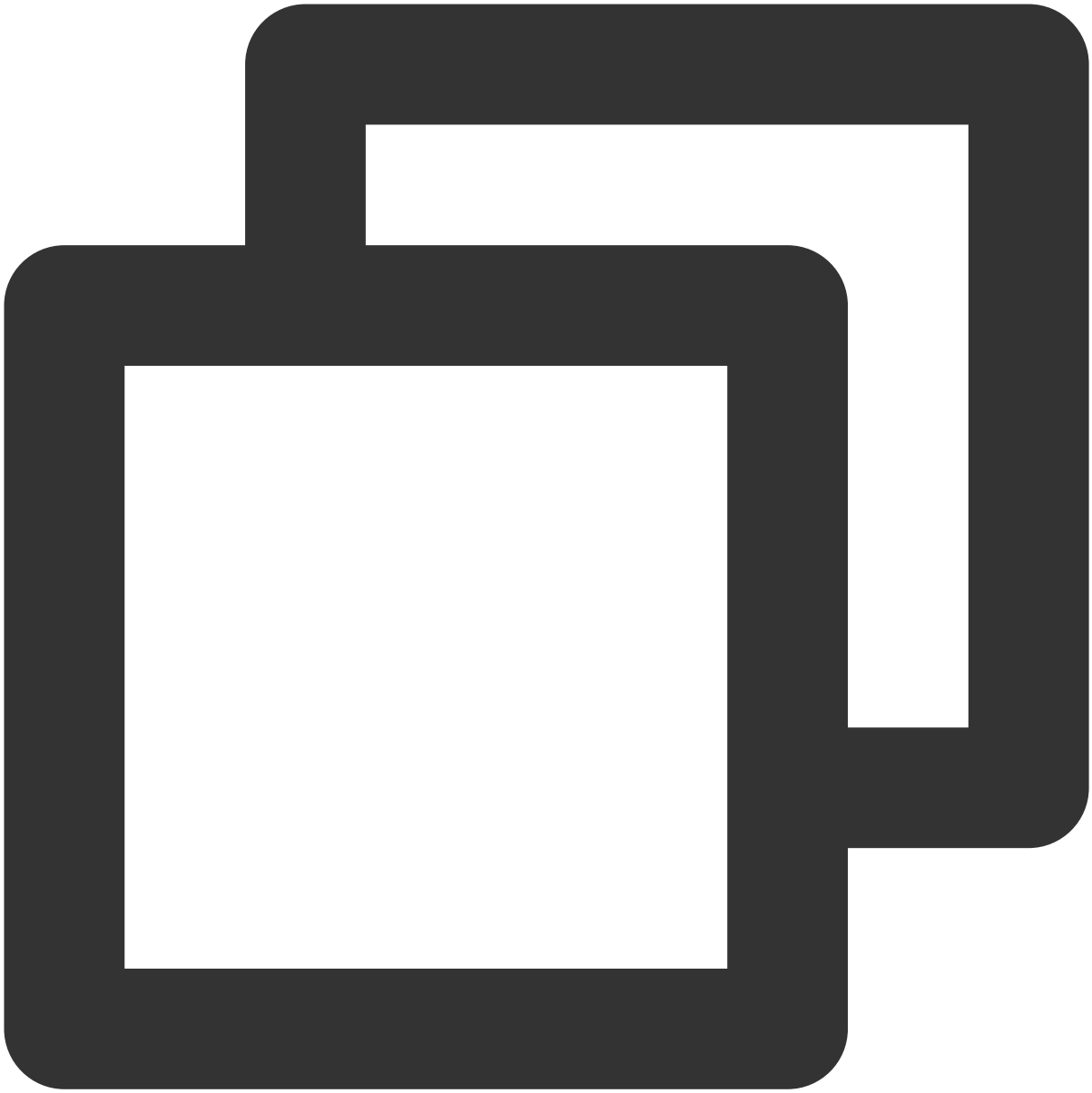
```
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
```

Note:

If no HTTPS certificate is configured, you need to delete the `schema` parameter or enter `'schema' => 'http'`. If you enter `https`, a certificate problem will be reported. If you want to configure an HTTPS certificate, see PHP SDK FAQs.

Creating a bucket

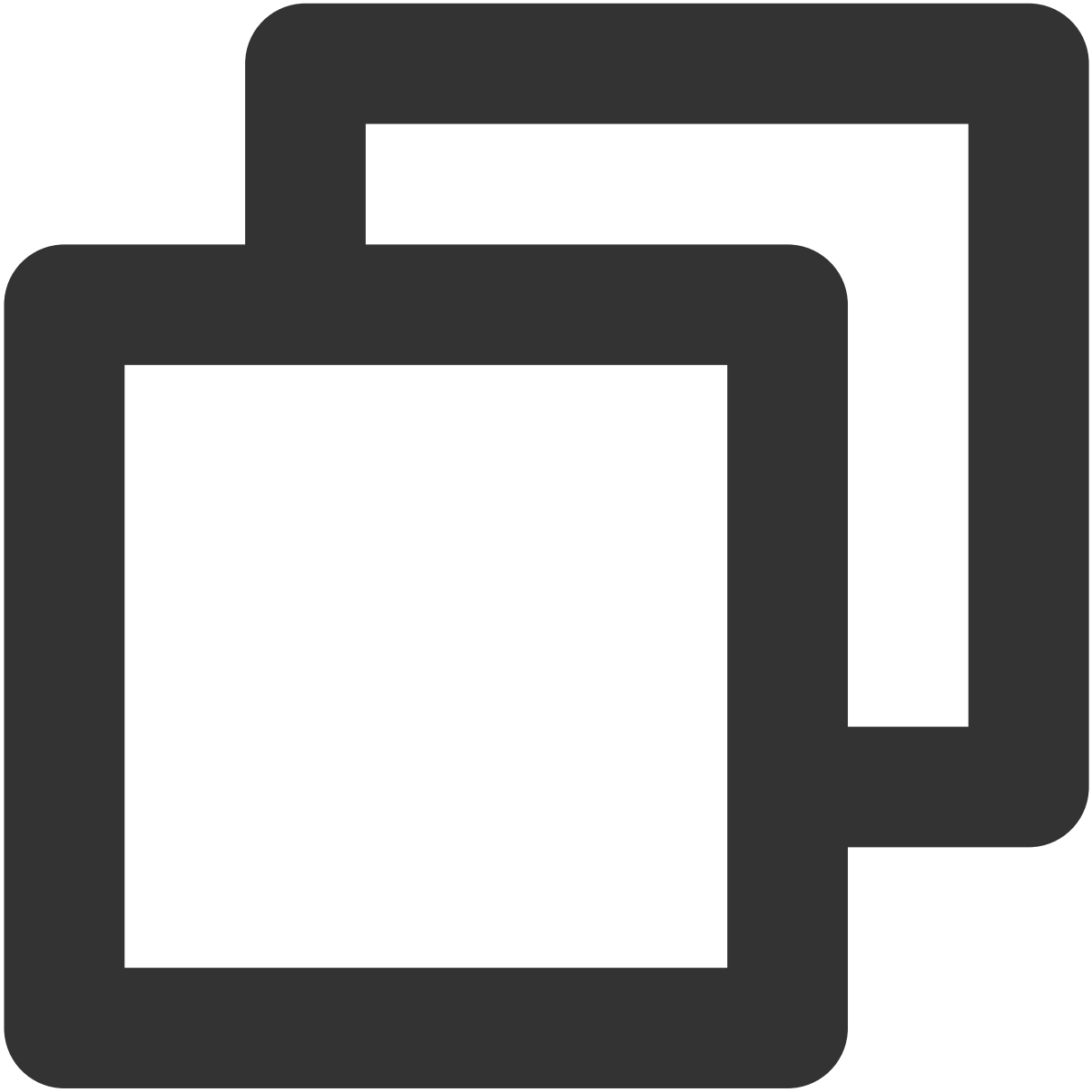
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```
try {
    $bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketNam
    $result = $cosClient->createBucket(array('Bucket' => $bucket));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Querying the bucket list



```
try {
    // Request succeeded
    $result = $cosClient->listBuckets();
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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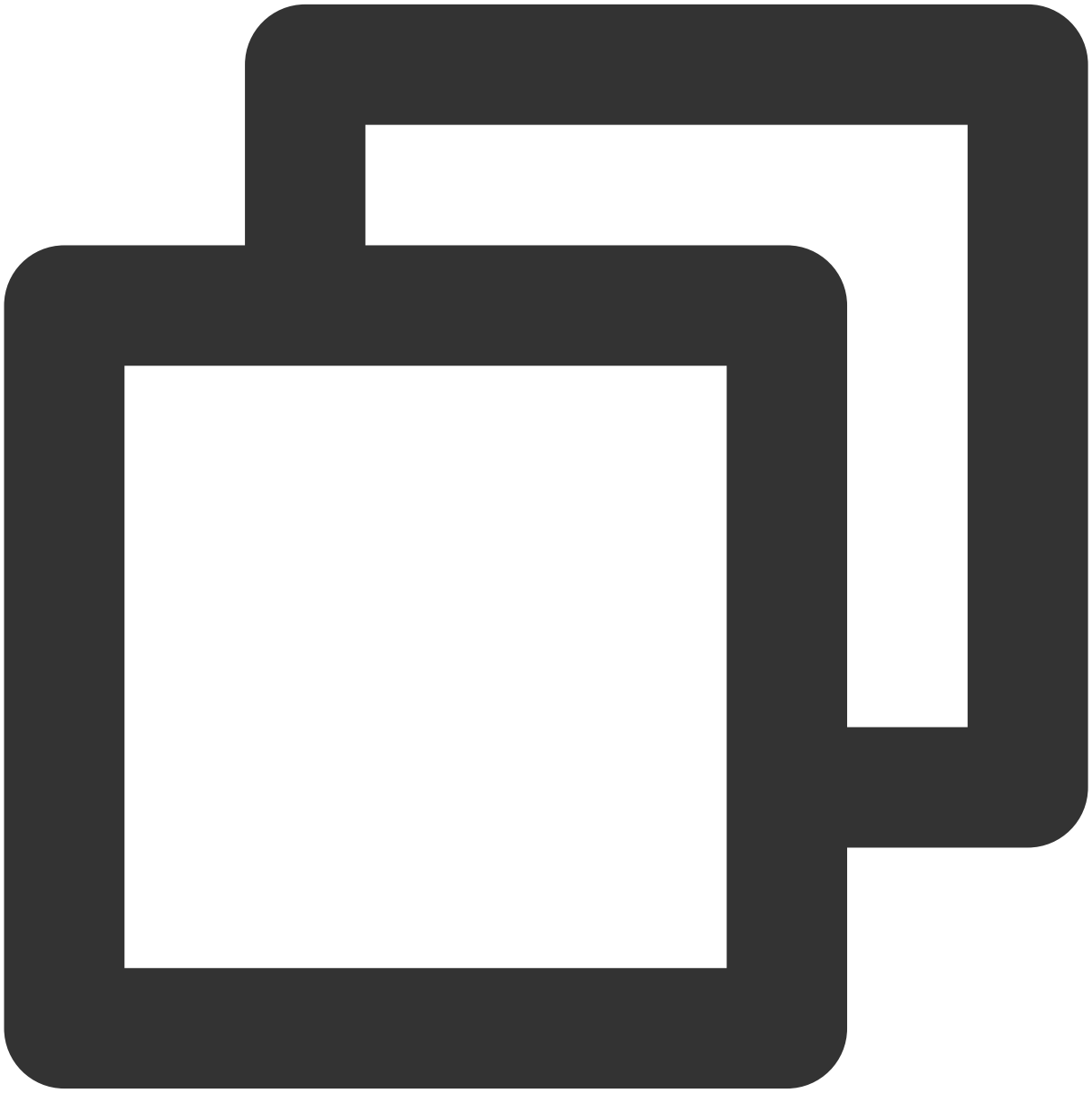
Uploading an object

Note:

Upload a file (up to 5 GB) using the putObject API.

Upload a file using the Upload API. The Upload API is a composition API that uses simple upload for small files and uses multipart upload for large files.

For parameter descriptions, see Object Operations.



```
# Upload a file
## putObject (an API that can upload files of up to 5 GB)
### Uploading strings in memory
```

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```
try {
    $bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketNam
    $key = "exampleobject"; // Object key, the unique identifier of the object in t
    $result = $cosClient->putObject(array(
        'Bucket' => $bucket,
        'Key' => $key,
        'Body' => 'Hello World!'));
    print_r($result);
} catch (\\Exception $e) {
    echo "$e\\n";
}

### Uploading a file stream
try {
    $bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketNam
    $key = "exampleobject"; // Object key, the unique identifier of the object in t
    $srcPath = "path/to/localFile";// Absolute path to local file
    $file = fopen($srcPath, "rb");
    if ($file) {
        $result = $cosClient->putObject(array(
            'Bucket' => $bucket,
            'Key' => $key,
            'Body' => $file));
        print_r($result);
    }
} catch (\\Exception $e) {
    echo "$e\\n";
}

## Upload (advanced upload API, which can upload files of up to 50 TB with multipar
### Uploading strings in memory
try {
    $bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketNam
    $key = "exampleobject"; // Object key, the unique identifier of the object in t
    $result = $cosClient->Upload(
        $bucket = $bucket,
        $key = $key,
        $body = 'Hello World!');
    print_r($result);
} catch (\\Exception $e) {
    echo "$e\\n";
}

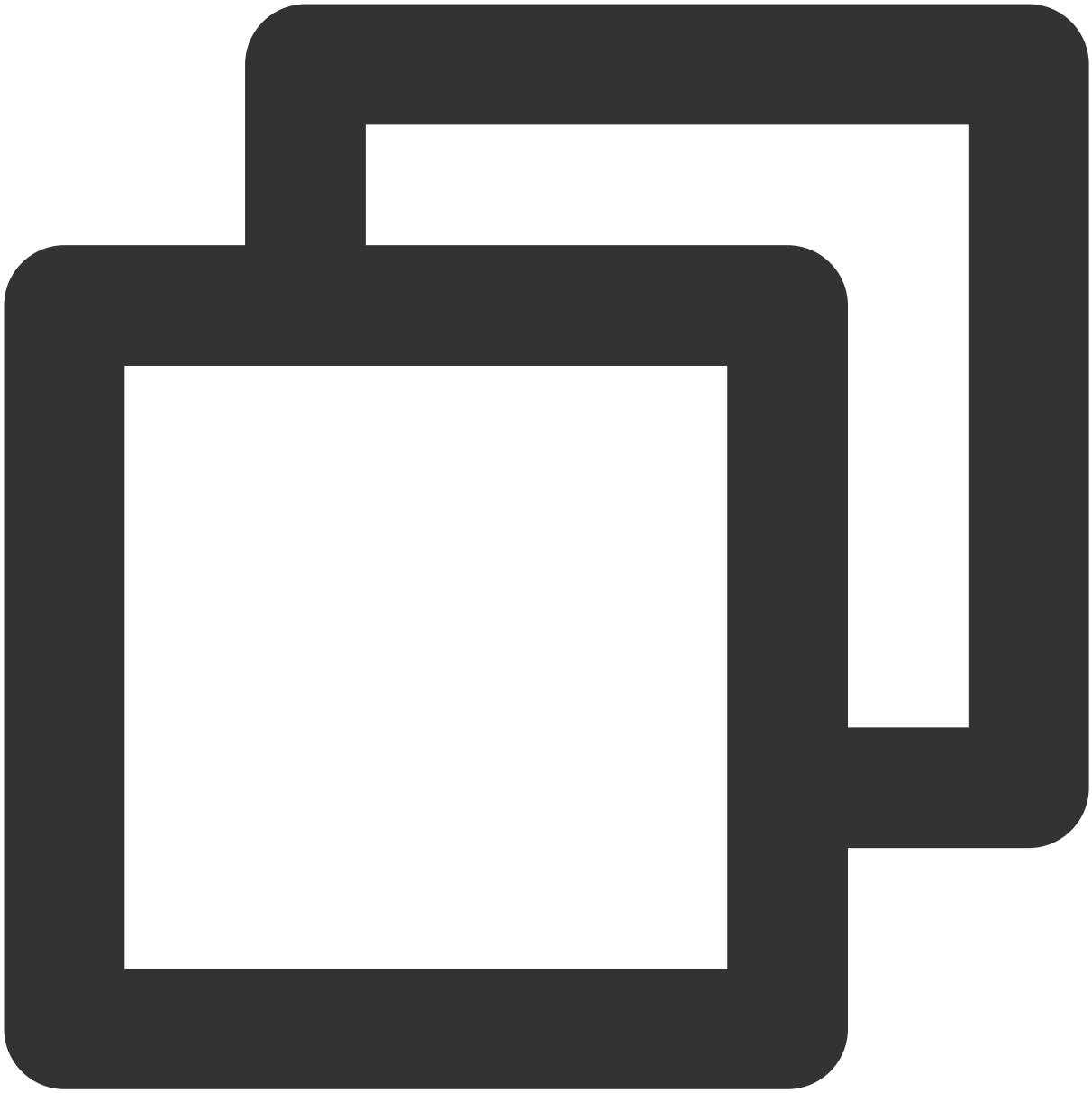
### Uploading a file stream
try {
    $bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketNam
    $key = "exampleobject"; // Object key, the unique identifier of the object in t
```

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```
    $srcPath = "path/to/localFile";// Absolute path to local file
    $file = fopen($srcPath, 'rb');
    if ($file) {
        $result = $cosClient->Upload(
            $bucket = $bucket,
            $key = $key,
            $body = $file);
    }
    print_r($result);
} catch (\\Exception $e) {
    echo "$e\\n";
}
```

Querying objects

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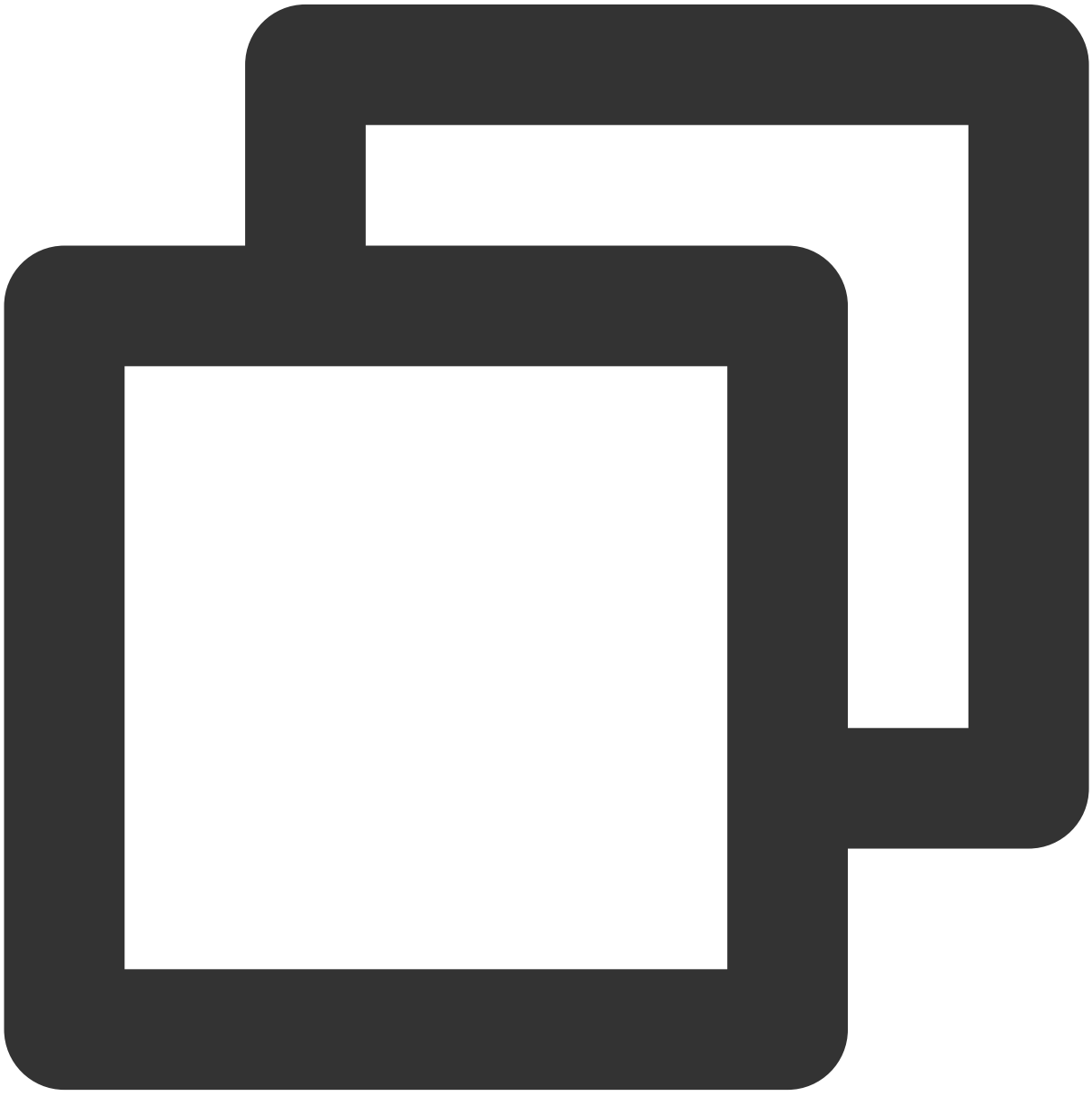


```
try {
    $bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketNam
    $result = $cosClient->listObjects(array(
        'Bucket' => $bucket
    ));
    // Request succeeded
    if (isset($result['Contents'])) {
        foreach ($result['Contents'] as $rt) {
            print_r($rt);
        }
    }
```

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```
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

A single call to the `listObjects` API can query up to 1,000 objects. If you want to query all objects, you need to call it repeatedly.



```
try {
    $bucket = "examplebucket-1250000000"; // Bucket name in the format of BucketNam
    $prefix = ''; // Prefix of the objects to be listed
```

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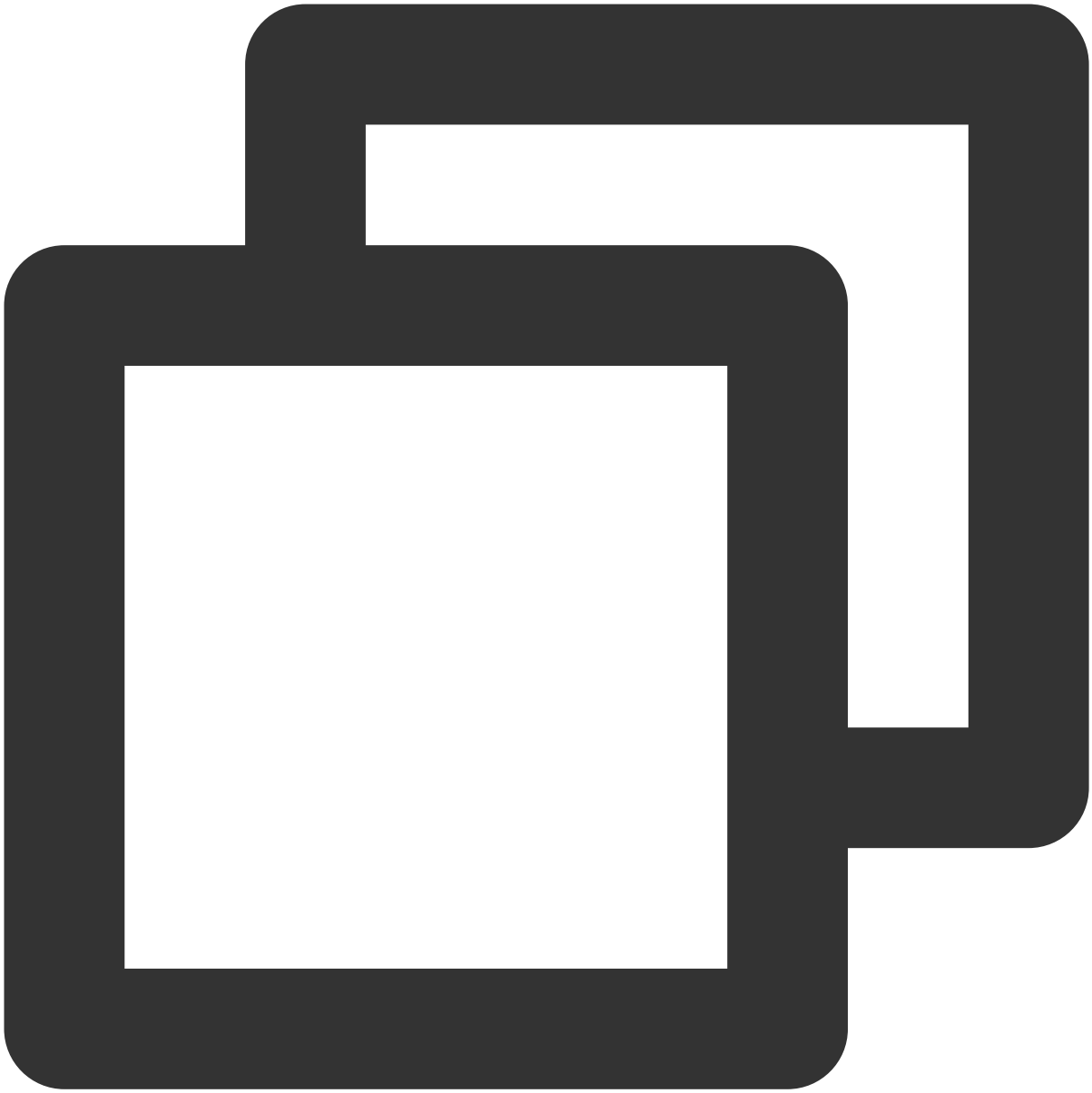
```
    $marker = ''; // End marker in the last list
    while (true) {
        $result = $cosClient->listObjects(array(
            'Bucket' => $bucket,
            'Marker' => $marker,
            'MaxKeys' => 1000 // Set the maximum number of entries to be listed in
        ));
        if (isset($result['Contents'])) {
            foreach ($result['Contents'] as $rt) {
                // Print key
                echo($rt['Key'] . "\\n");
            }
        }
        $marker = $result['NextMarker']; // Set a new end marker
        if (!$result['IsTruncated']) {
            break; // Determine whether the query is complete
        }
    }
} catch (\\Exception $e) {
    echo($e);
}
```

Downloading an object

Download a file using the getObject API.

Get the file download URL using the getObjectUrl API.

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```
# Downloading a file
## getObject (download file)
### Download to memory
try {
    $bucket = "examplebucket-1250000000"; // Bucket in the format of BucketName-APP
    $key = "exampleobject";  // Object key, the unique identifier of the object in
    $result = $cosClient->getObject(array(
        'Bucket' => $bucket,
        'Key' => $key));
    // Request succeeded
    echo($result['Body']);
```

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```
} catch (\\Exception $e) {
    // Request failed
    echo "$e\\n";
}

### Download to the local file system
try {
    $bucket = "examplebucket-1250000000"; // Bucket in the format of BucketName-APP
    $key = "exampleobject";  // Object key, the unique identifier of the object in
    $localPath = @"path/to/localFile";// Download to a specific local path
    $result = $cosClient->getObject(array(
        'Bucket' => $bucket,
        'Key' => $key,
        'SaveAs' => $localPath));
} catch (\\Exception $e) {
    // Request failed
    echo "$e\\n";
}

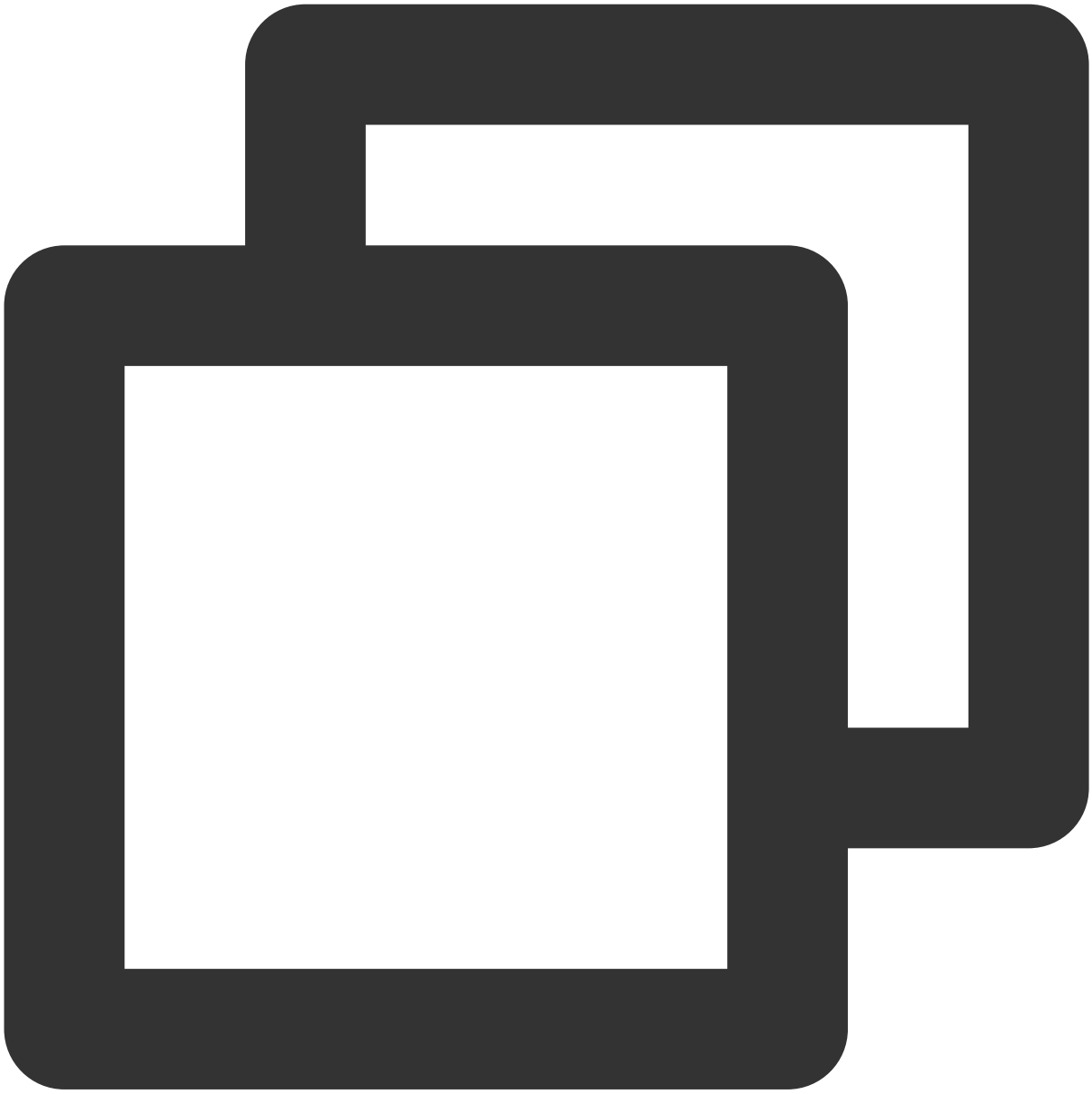
### Specifying the download range
/*
 * Range field is in the format of 'bytes=a-b'
 */
try {
    $bucket = "examplebucket-1250000000"; // Bucket in the format of BucketName-APP
    $key = "exampleobject";  // Object key, the unique identifier of the object in
    $localPath = @"path/to/localFile";// Download to a specific local path
    $result = $cosClient->getObject(array(
        'Bucket' => $bucket,
        'Key' => $key,
        'Range' => 'bytes=0-10',
        'SaveAs' => $localPath));
} catch (\\Exception $e) {
    // Request failed
    echo "$e\\n";
}

## getObjectUrl (get the file URL)
try {
    $bucket = "examplebucket-1250000000"; // Bucket in the format of BucketName-APP
    $key = "exampleobject";  // Object key, the unique identifier of the object in
    $signedUrl = $cosClient->getObjectUrl($bucket, $key, '+10 minutes');
    // Request succeeded
    echo $signedUrl;
} catch (\\Exception $e) {
    // Request failed
    print_r($e);
```

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```
}
```

Deleting an object



```
# Delete an object
## deleteObject
try {
    $bucket = "examplebucket-1250000000"; // Bucket in the format of BucketName-APP
    $key = "exampleobject";  // Object key, the unique identifier of the object in
    $result = $cosClient->deleteObject(array(
```

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```
        'Bucket' => $bucket,
        'Key' => $key,
        'VersionId' => 'string'
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
# Delete multiple objects
## deleteObjects
try {
    $bucket = "examplebucket-1250000000"; // Bucket in the format of BucketName-APP
    $key1 = "exampleobject1";  // Object key, the unique identifier of the object i
    $key2 = "exampleobject2";  // Object key, the unique identifier of the object i
    $result = $cosClient->deleteObjects(array(
        'Bucket' => $bucket,
        'Objects' => array(
            array(
                'Key' => $key1,
            ),
            array(
                'Key' => $key2,
            ),
            //...
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Image Processing
Basic Image Processing

Last updated：2024-03-01 14:43:58

Overview

COS has integrated Cloud Infinite (CI), a one-stop professional multimedia solution that offers the image processing features outlined below. For more information, see Image Processing Overview.

Feature	Description
Scaling	Scales an image proportionally or to the target width and height.
Cropping	Performs regular cropping, cropping and scaling, cropping to circle, or smart face cropping.
Rotation	Performs adaptive rotation or regular rotation.
Format conversion	Converts the format of an image, optimizes the GIF format, and performs progressive display.
Quality change	Changes the quality of images in JPG and WEBP formats.
Gaussian blurring	Blurs an image by a Gaussian function.
Brightness	Adjusts the image brightness.
Contrast	Adjusts the image contrast.
Sharpening	Sharpens an image.
Grayscale image	Sets an image to a grayscale image.
Image watermark	Processes an image watermark.
Text watermark	Processes a text watermark.
Basic image information acquisition	Queries the basic information of an image, such as format, width, and height.
Image EXIF data acquisition	Gets the EXIF data of an image.
Image average hue acquisition	Gets the average hue of an image.

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Metadata removal	Removes the image metadata, including the EXIF data.
Quick thumbnail template	Performs quick format conversion, scaling, and cropping to generate thumbnails.
Image size limiting	Limits the size of an output image, such as a scaled or compressed image.
Pipeline operator	Performs multiple operations on images in sequence

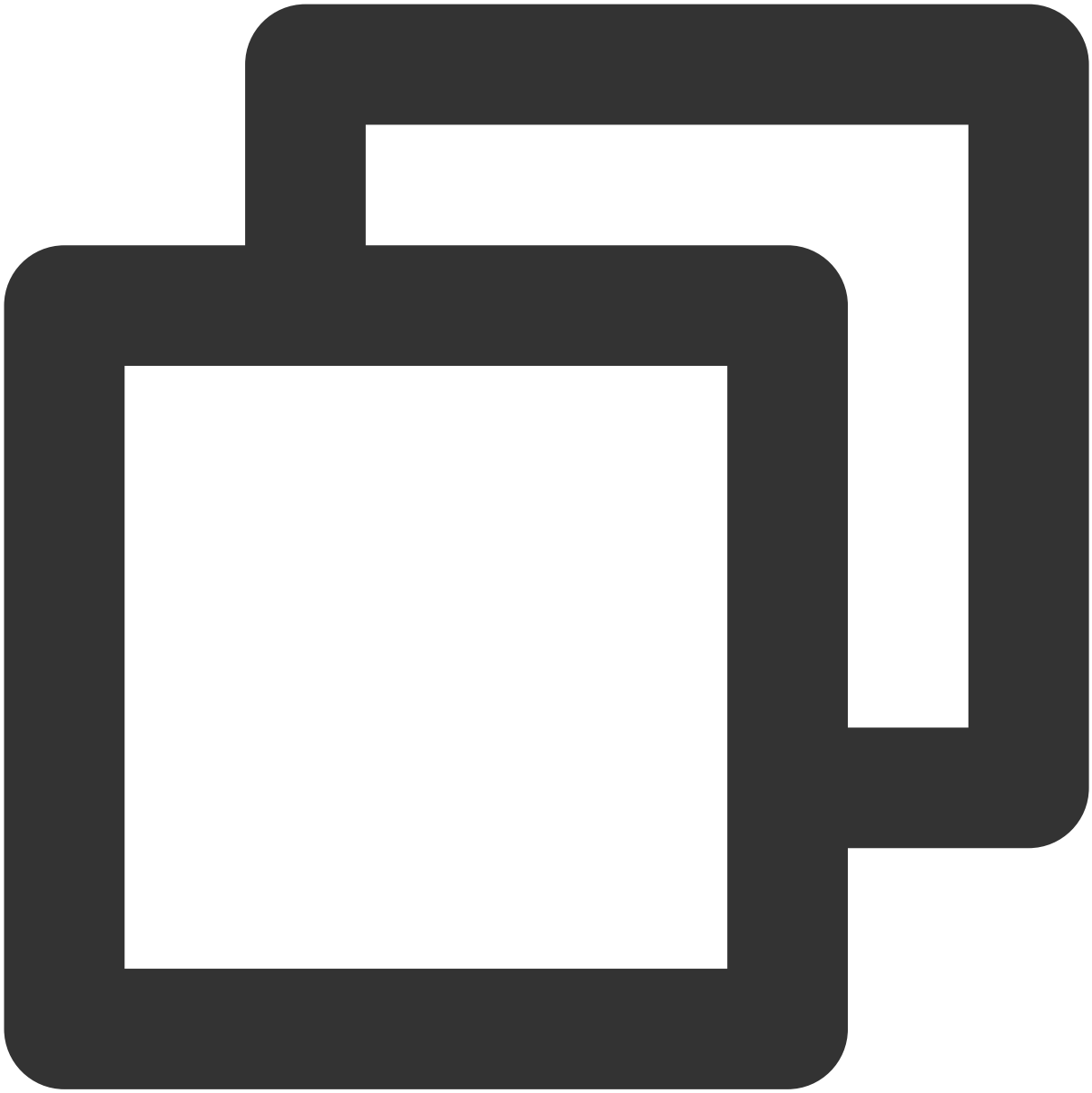
Scaling

Feature description

CI uses the **imageMogr2** API 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.

Sample codes

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Image processing - scaling. For more information, visit https://cloud.tencen
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->thumbnailByScale(50); // /thumbnail/!<Scale>p
    $imageRule->thumbnailByWidthScale(50); // /thumbnail/!<Scale>px
    $imageRule->thumbnailByHeightScale(50); // /thumbnail/!x<Scale>p
    $imageRule->thumbnailByWidth(60); // /thumbnail/<Width>x
    $imageRule->thumbnailByHeight(60); // /thumbnail/x<Height>
    $imageRule->thumbnailByMaxWH(100, 100); // /thumbnail/<Width>x<Height>
    $imageRule->thumbnailByMinWH(30, 30); // /thumbnail/!<Width>x<Height>r
    $imageRule->thumbnailByWH(50, 50); // /thumbnail/<Width>x<Height>!
    $imageRule->thumbnailByPixel(10000); // /thumbnail/<Area>@
    $imageRule->thumbnailEqualRatioReduceByWH(300, 300); // /thumbnail/<Width>x<Hei
    $imageRule->thumbnailEqualRatioEnlargeByWH(300, 300); // /thumbnail/<Width>x<He
    $imageRule->pad(1); // /pad/1
    $imageRule->color('#3D3D3D'); // /color/IzNEM0QzRA
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
```

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```
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameters

Operation: thumbnail

Parameter	Description
ObjectKey	Object name, such as `folder/sample.jpg` .
/thumbnail/!<Scale>p	Scales an image to `Scale%` of its original width and height.
/thumbnail/!<Scale>px	Scales an image to `Scale%` of its original width while keeping the height unchanged.
/thumbnail/!x<Scale>p	Scales an image to `Scale%` of its original height while keeping the width unchanged.
/thumbnail/<Width>x	Specifies the target image width as `Width` , with the height proportionally scaled.
/thumbnail/x<Height>	Specifies the target image height as `Height` , with the width proportionally scaled.
/thumbnail/<Width>x<Height>	Specifies the maximum width and height of a thumbnail as `Width` and `Height` respectively for proportional scaling.
/thumbnail/<Width>x<Height>>	Specifies the maximum width and height of a thumbnail as `Width` and `Height` respectively for proportional scaling down. 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><	Specifies the maximum width and height of a thumbnail as `Width` and `Height` respectively for proportional scaling up. 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 less than the input width and height, the image will not be scaled.

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/thumbnail/! <Width>x<Height>r	Specifies the minimum width and height of a thumbnail as `Width` and `Height` respectively for proportional scaling.
/thumbnail/<Width>x<Height>!	Forces image scaling with the specified `Width` and `Height`, which may cause deformation of the target image.
/thumbnail/<Area>@	Proportionally scales an image so that the total number of its pixels does not exceed `Area`.
/pad/	Pads 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/	Fill color. The value must be in hexadecimal format, such as `#FF0000`. For format conversion, see RGB Color Codes Chart. The value must be URL-safe Base64-encoded as described in FAQs. Default value: `#FFFFFF` (white).
/ignore-error/1	If this parameter is carried and the image fails to be processed because the image is too large or a parameter value exceeds the limit, the input image will be returned with no error reported.

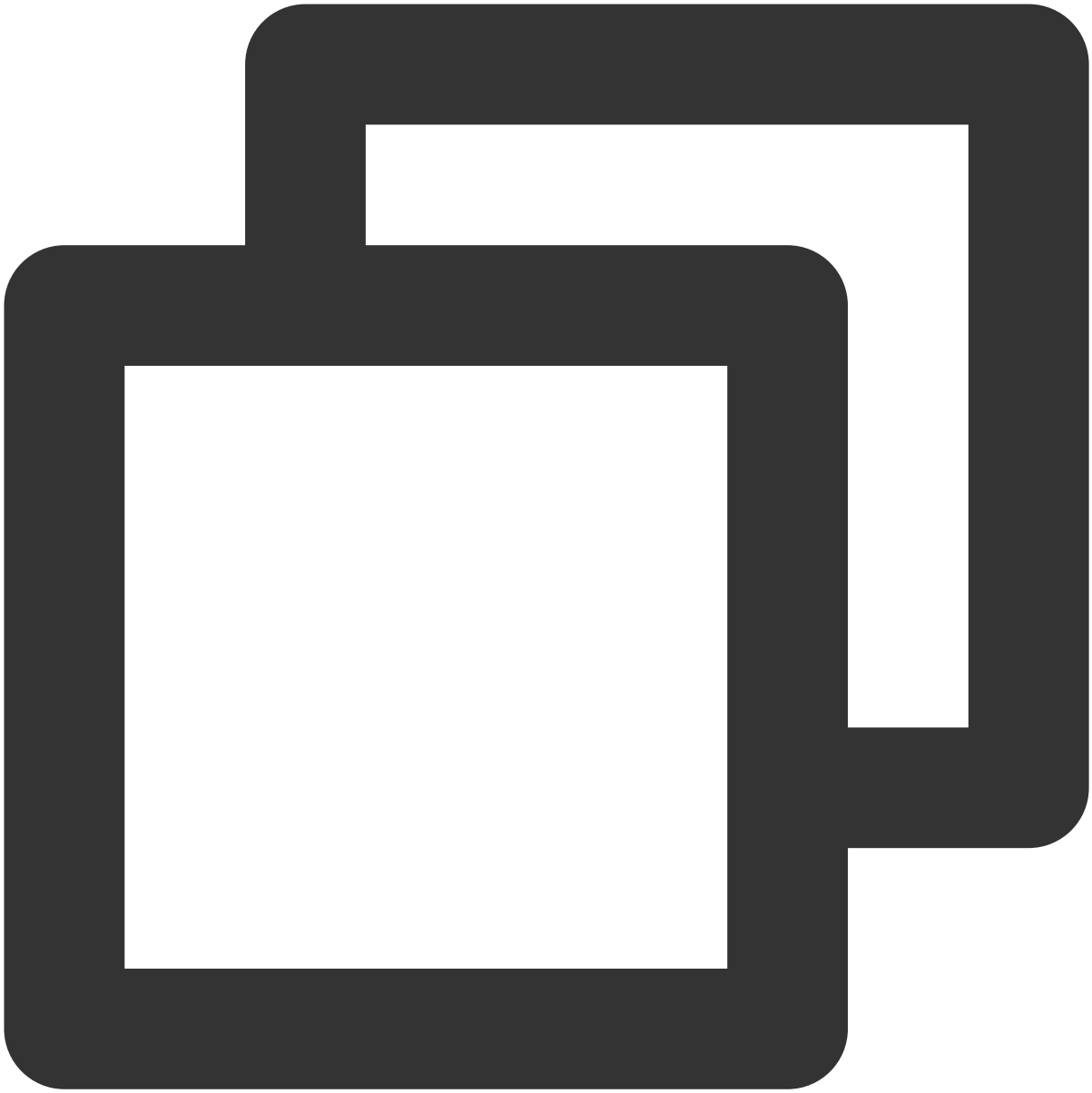
Cropping

Feature description

CI uses the `imageMogr2` API to crop images, such as regular cropping, scaling and cropping, inscribed circle cropping, rounded corner cropping, and smart cropping.

Sample codes

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Image processing - cropping. For more information, visit https://cloud.tence
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->cut(400, 400, 100, 100); // Parameters for regular cropping /cut/<w
    $imageRule->cropByWidth(400, 'center'); // Parameters for scaling and cropping
    $imageRule->cropByHeight(400, 'center'); // Parameters for scaling and cropping
    $imageRule->cropByWH(400, 400, 'center'); // Parameters for scaling and croppin
    $imageRule->iradius(30); // Parameters for cropping to circle /iradius/<radius>
    $imageRule->rradius(30); // Parameters for rounded corner cropping /rradius/<ra
    $imageRule->scrop(30, 30); // Parameters for smart face cropping /scrop/<Width>
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
```

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```
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameters

Parameter	Description
/ignore-error/1	If this parameter is carried and the image failed to be processed because the image size or the parameter value is too large, the input image will be returned with no error reported.

Parameters for regular cropping

Operation: cut

Parameter	Description
<width>	Width of the output image
<height>	Height of the output image
<dx>	Horizontal offset relative to the top-left vertex
<dy>	Vertical offset relative to the top-left vertex

Note:

The values should be greater than 0 and smaller than the width/height of the input image.

Parameters for scaling and cropping

Operation: 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 Cropping.

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Parameters for cropping to circle

Operation: iradius

Parameter	Description
/iradius/<radius>	Crops to a circle. `radius` specifies the radius of the inscribed circle, which should be an integer greater than zero and less than half of the shorter side of the input image. The center of the inscribed circle is the center of the image. This operation is not supported for GIF images.

Parameters for rounded corner cropping

Operation: rradius

Parameter	Description
/rradius/<radius>	Crops with round corners. `radius` specifies the radius of the rounded corner of the image, which should be an integer greater than zero and less than half of the shorter side of the input image. The two sides of the image are the tangent lines of the rounded corner. This operation is not supported for GIF images.

Parameters for smart face cropping

Operation: scrop

Parameter	Description
/scrop/<Width>x<Height>	Scales and crops an image based on the face position in the image. The width and height of the target image are specified by `Width` and `Height` respectively.

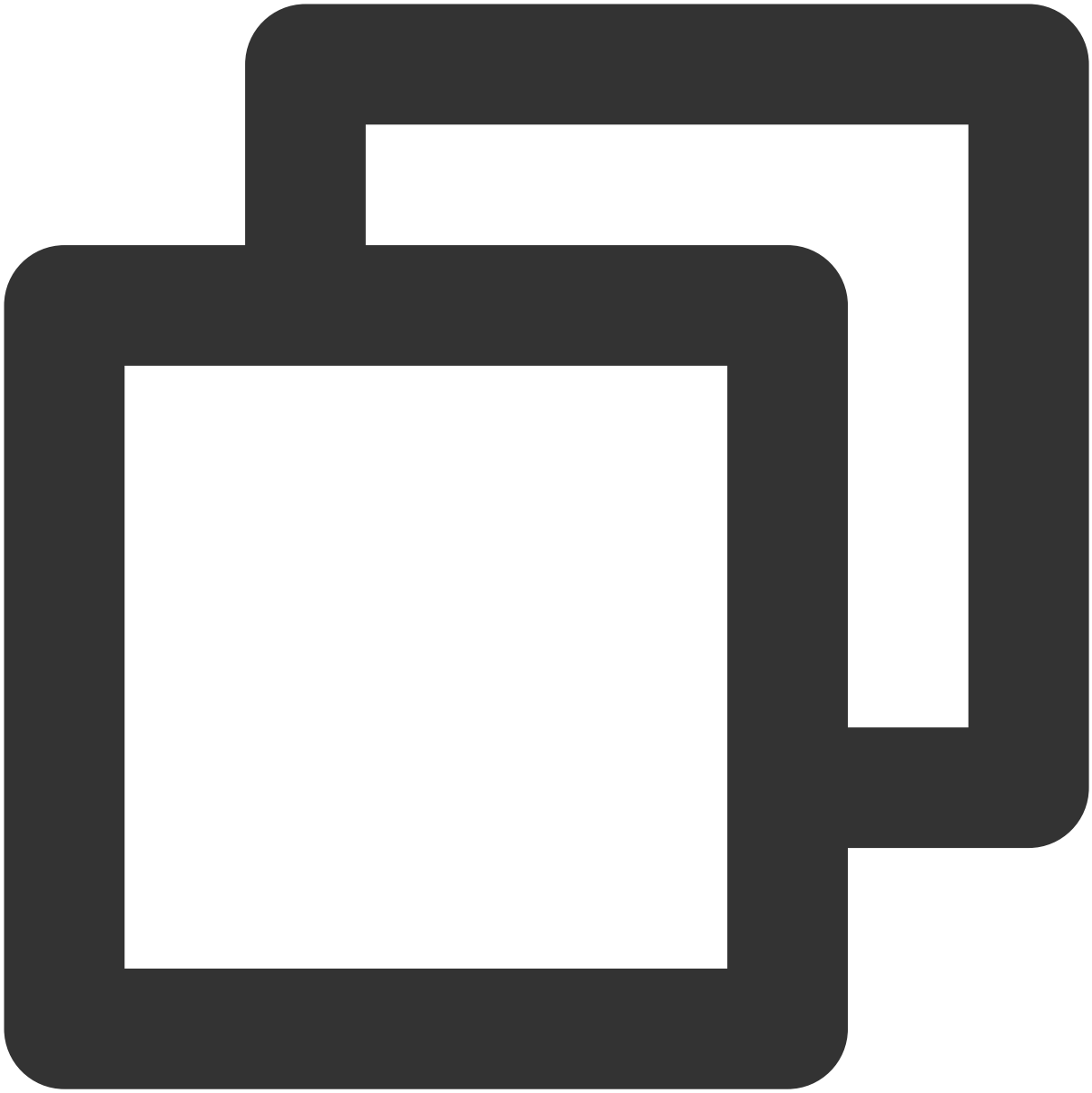
Rotating

Feature description

CI uses the **imageMogr2** API to rotate an image by a specified angle or automatically.

Sample codes

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Image processing - rotation. For more information, visit https://cloud.tence
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->rotate(90); // /rotate/<rotateDegree>
    $imageRule->autoOrient(); // /auto-orient
    $imageRule->flip('vertical'); // /flip/<flip>
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Parameter	Description
/rotate/<rotateDegree>	Rotates an image clockwise by a specified angle. The value can be 0–360. By default, the image is not rotated.
/auto-orient	Rotates an image automatically according to its EXIF data.
/flip/<flip>	Flips an image. Valid values: `vertical` , `horizontal` .
/ignore-error/1	If this parameter is carried and the image fails to be processed because the image is too large or a parameter value exceeds the limit, the input image will be returned with no error reported.

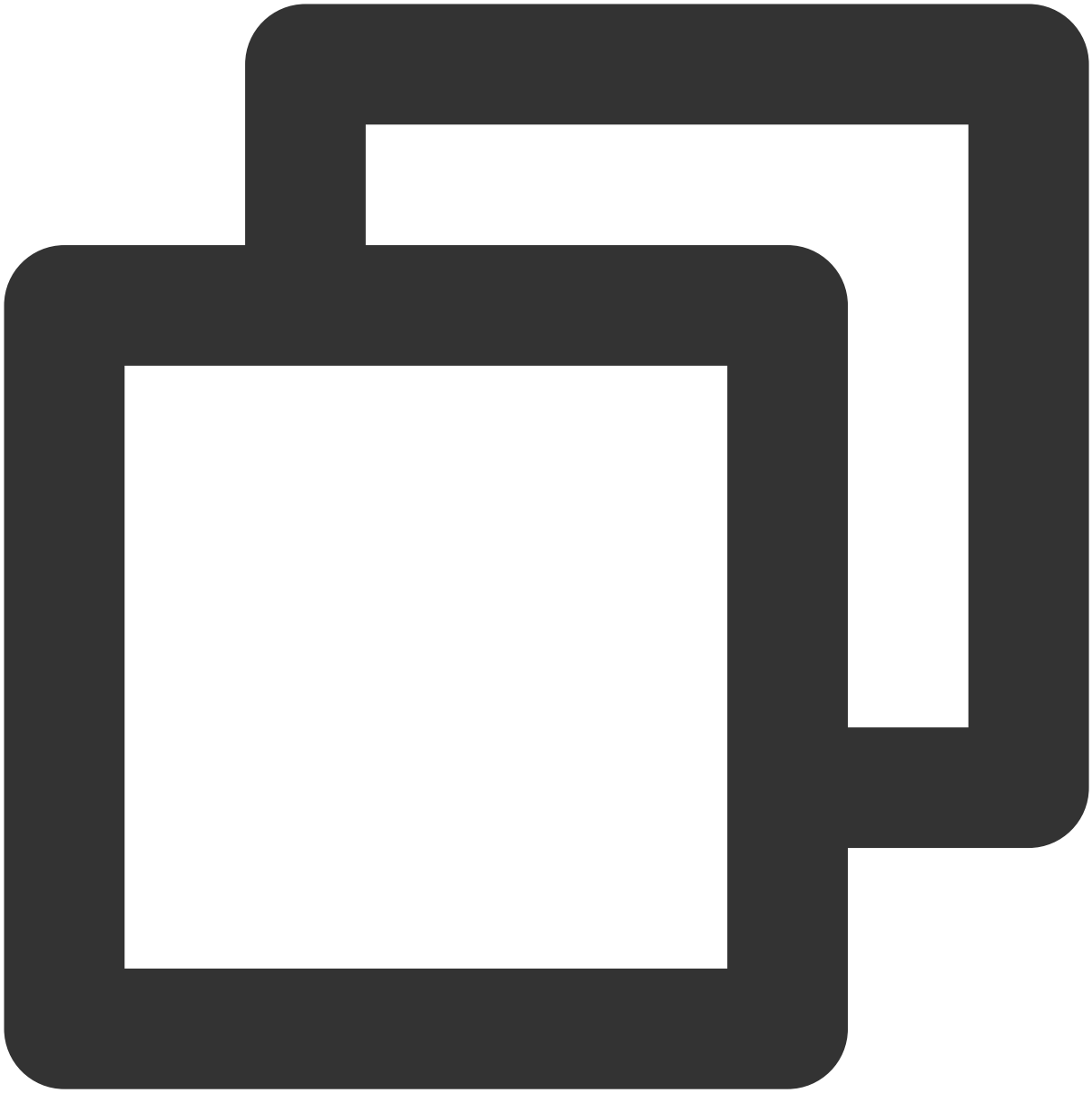
Format Conversion

Feature description

CI uses the `imageMogr2` API to perform format conversion, GIF optimization, and progressive display.

Sample codes

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Image processing - format conversion. For more information, visit https://cl
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->format('jpg'); // Format conversion /format/<Format>
    $imageRule->gifOptimization(1); // GIF optimization /cgif/<FrameNumber>
    $imageRule->jpegInterlaceMode(1); // Progressive mode of the output JPG image,
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Parameter	Description
/format/<Format>	Converts the image format. The target format can be JPG, BMP, GIF, PNG, WebP, or YJPEG (which is optimized based on JPEG and is essentially JPG). The default format is the format of the input image.
/cgif/<FrameNumber>	Optimizes images in the GIF format by reducing frames and colors of images. There are two cases: FrameNumber=1: Cut the input GIF to the default number of frames (30). If the original number of frames is greater than 30, excessive frames will be cut. FrameNumber=(1,100]: Compress the image to the specified number of frames (`FrameNumber`).
/interlace/<Mode>	Progressive mode of the output JPG image. Valid values: `0` (default): Disables the progressive mode; `1` : Enables the progressive mode. This parameter takes effect only when the output image is in JPG format.
/ignore-error/1	If this parameter is carried and the image fails to be processed because the image is too large or a parameter value exceeds the limit, the input image will be returned with no error reported.

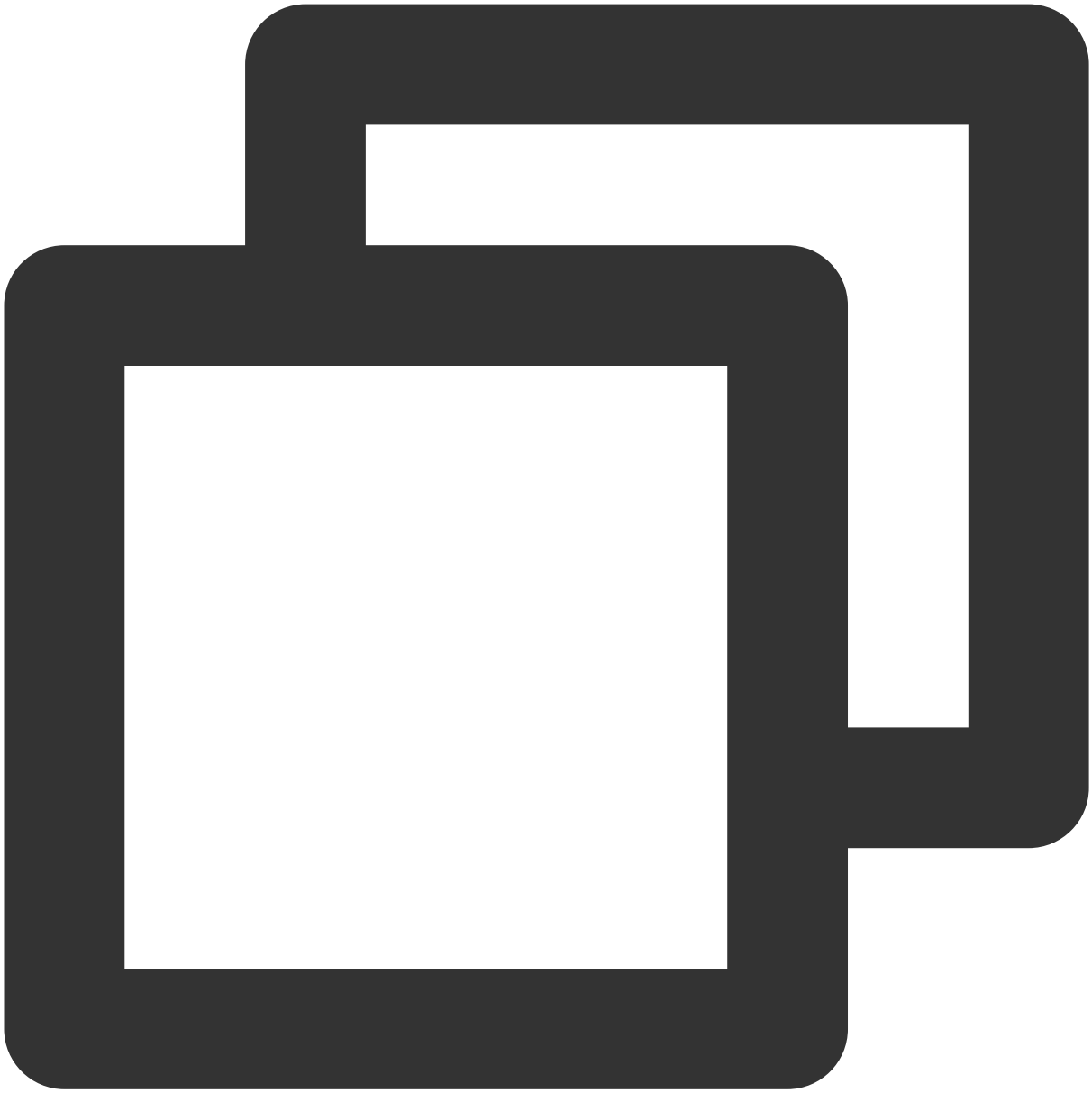
Quality Change

Feature description

CI uses the `imageMogr2` API to adjust the quality of an image.

Sample codes

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Image processing - quality change. For more information, https://cloud.tence
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->quality(90, 1); // Absolute quality /quality/<Quality>
    $imageRule->lowestQuality(90); // Lowest quality /lquality/<quality>
    $imageRule->relativelyQuality(90); // Relative quality /rquality/<quality>
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Operation: quality

Parameter	Description
/quality/<Quality>	Absolute quality of the image. The value can be 0–100. Use the value of the original image quality (default) or the specified quality, whichever is smaller. If there is an exclamation mark (!) after <Quality> (such as `90!`), the specified quality value is forcibly used.
/rquality/<quality>	Image quality relative to that of the input image. The value can be 0–100. For example, if the input image quality is 80 and `rquality` is set to `80`, the quality of the output image will be 64 (80 * 80%).
/lquality/<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 will be 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 fails to be processed because the image is too large or a parameter value exceeds the limit, the input image will be returned with no error reported.

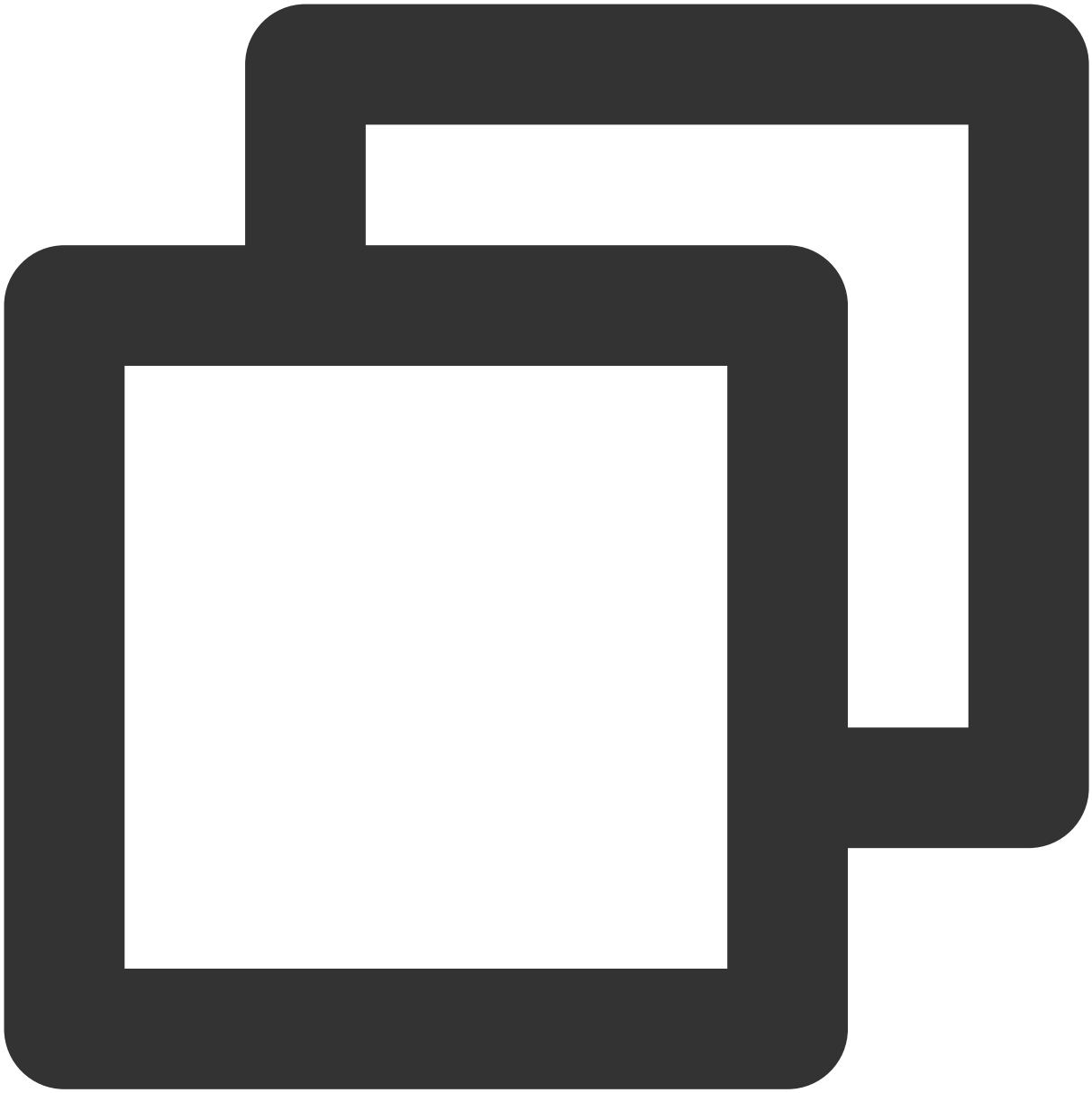
Gaussian Blurring

Feature description

CI uses the **imageMogr2** API to blur an image.

Sample codes

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Image processing - Gaussian blurring. For more information, visit https://cl
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->blur(8, 5); // Gaussian blurring /blur/<radius>x<sigma>
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Operation: blur

Parameter	Description
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 the image size or the parameter value is too large, the input image will be returned with no error reported.

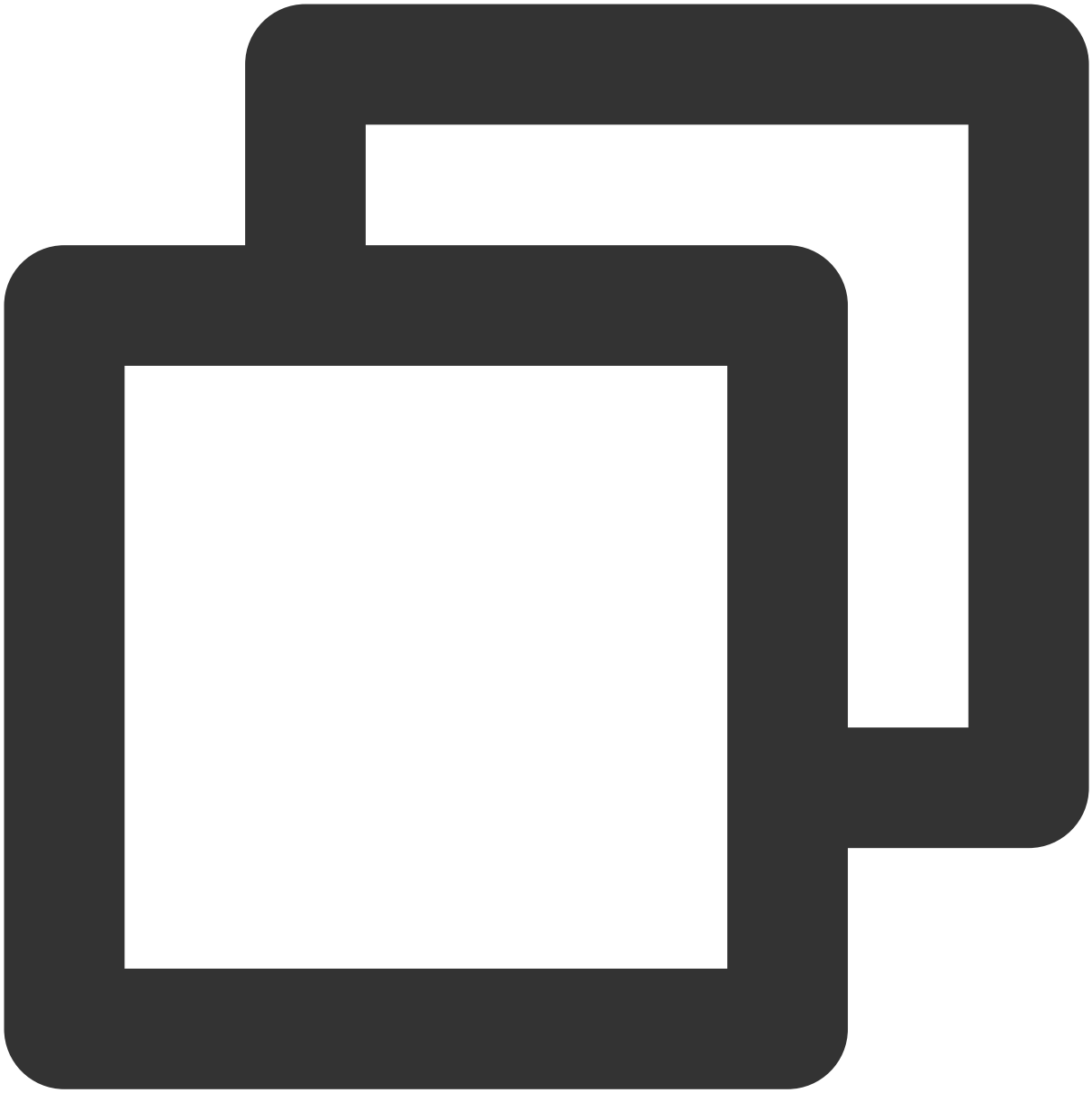
Adjusting Brightness

Feature description

CI uses the **imageMogr2** API to adjust the brightness of an image.

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - brightness. For more information, visit https://cloud.ten
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->bright(70); // Image brightness adjustment /bright/<value>
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Operation: bright

Parameter	Description
/bright/<value>	Adjusts the brightness of an image. The value must be an integer in the range of [-100, 100]. `value` < 0: Reduces the image brightness. `value` = 0: Does not adjust the image brightness. `value` > 0: Increases the image brightness.
/ignore-error/1	If this parameter is carried and the image failed to be processed because the image size or the parameter value is too large, the input image will be returned with no error reported.

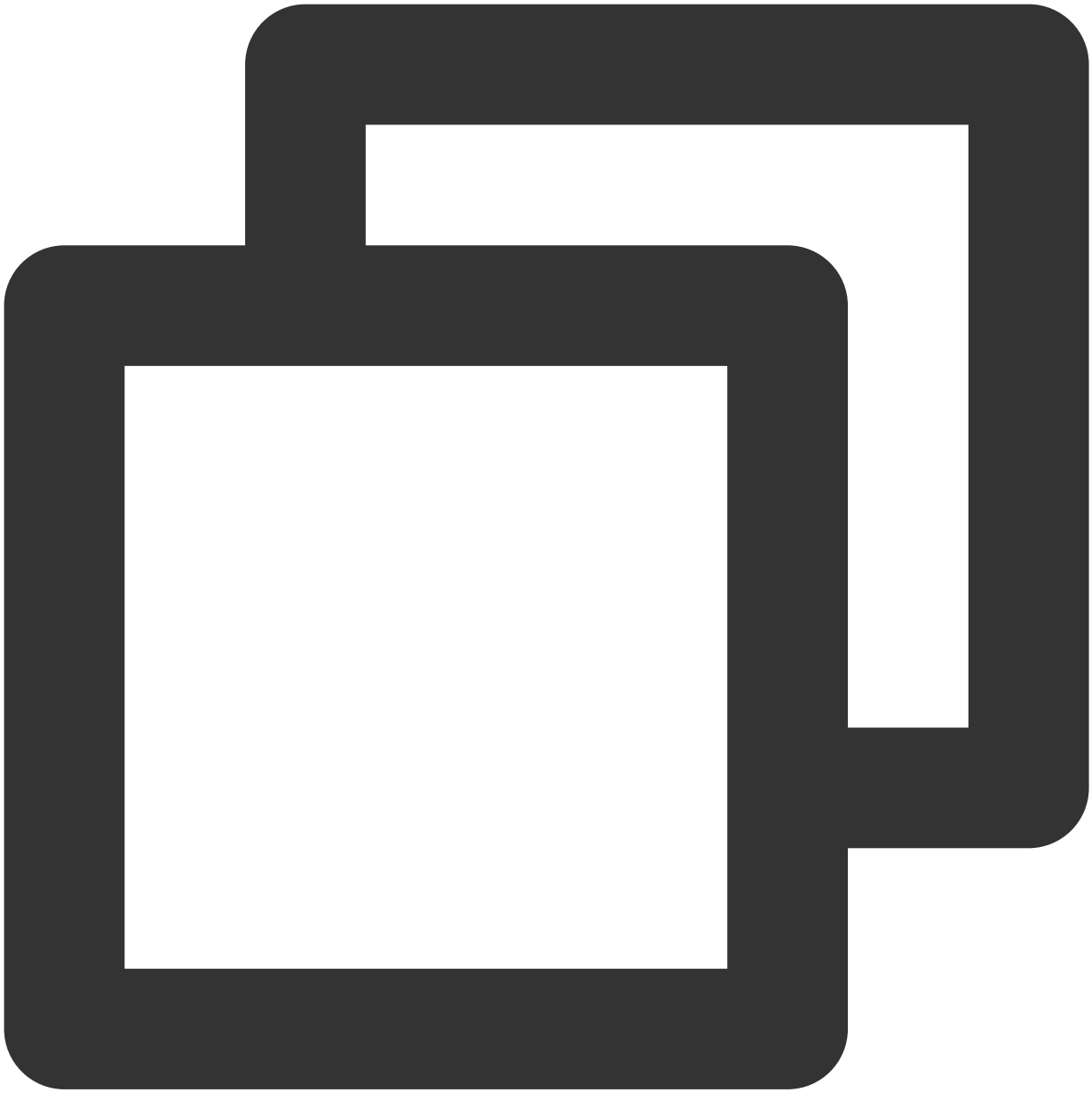
Adjusting Contrast

Feature description

CI uses the **imageMogr2** API 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).

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - contrast. For more information, visit https://cloud.tence
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->contrast(-70); // Image contrast adjustment /contrast/<value>
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Operation: contrast

Parameter	Description
/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 fails to be processed because the image is too large or a parameter value exceeds the limit, the input image will be returned with no error reported.

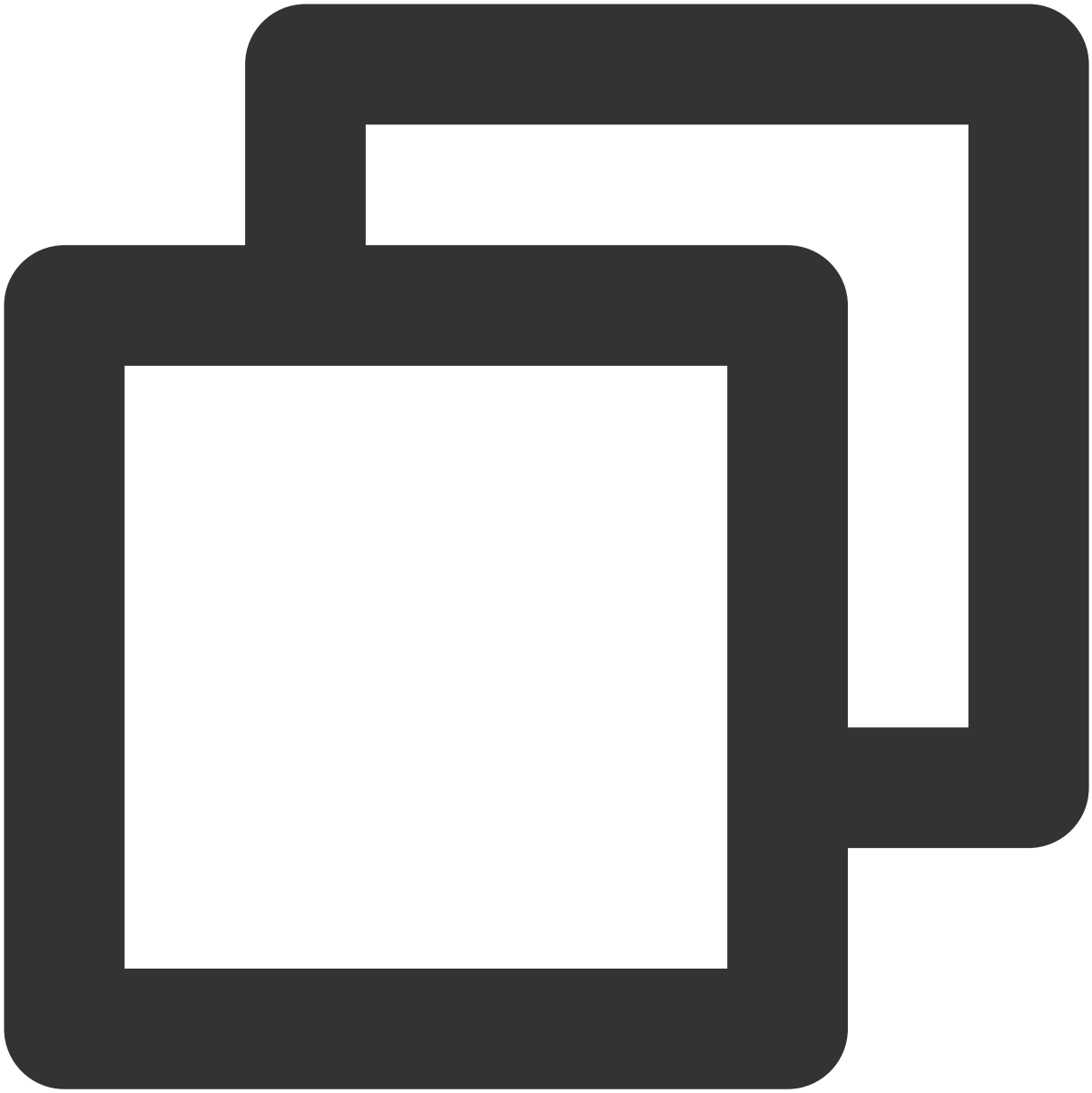
Sharpening

Feature description

CI uses the **imageMogr2** API to sharpen an image.

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - sharpening. For more information, visit https://cloud.ten
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->sharpen(70); // Image sharpening /sharpen/<value>
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Operation: sharpen

Parameter	Description
/sharpen/<value>	Sharpens an image, where `value` controls the strength of the sharpening effect. The value must be an integer ranging from 10 to 300 (70 is recommended). The greater the value, the more obvious the sharpening effect.
/ignore-error/1	If this parameter is carried and the image fails to be processed because the image is too large or a parameter value exceeds the limit, the input image will be returned with no error reported.

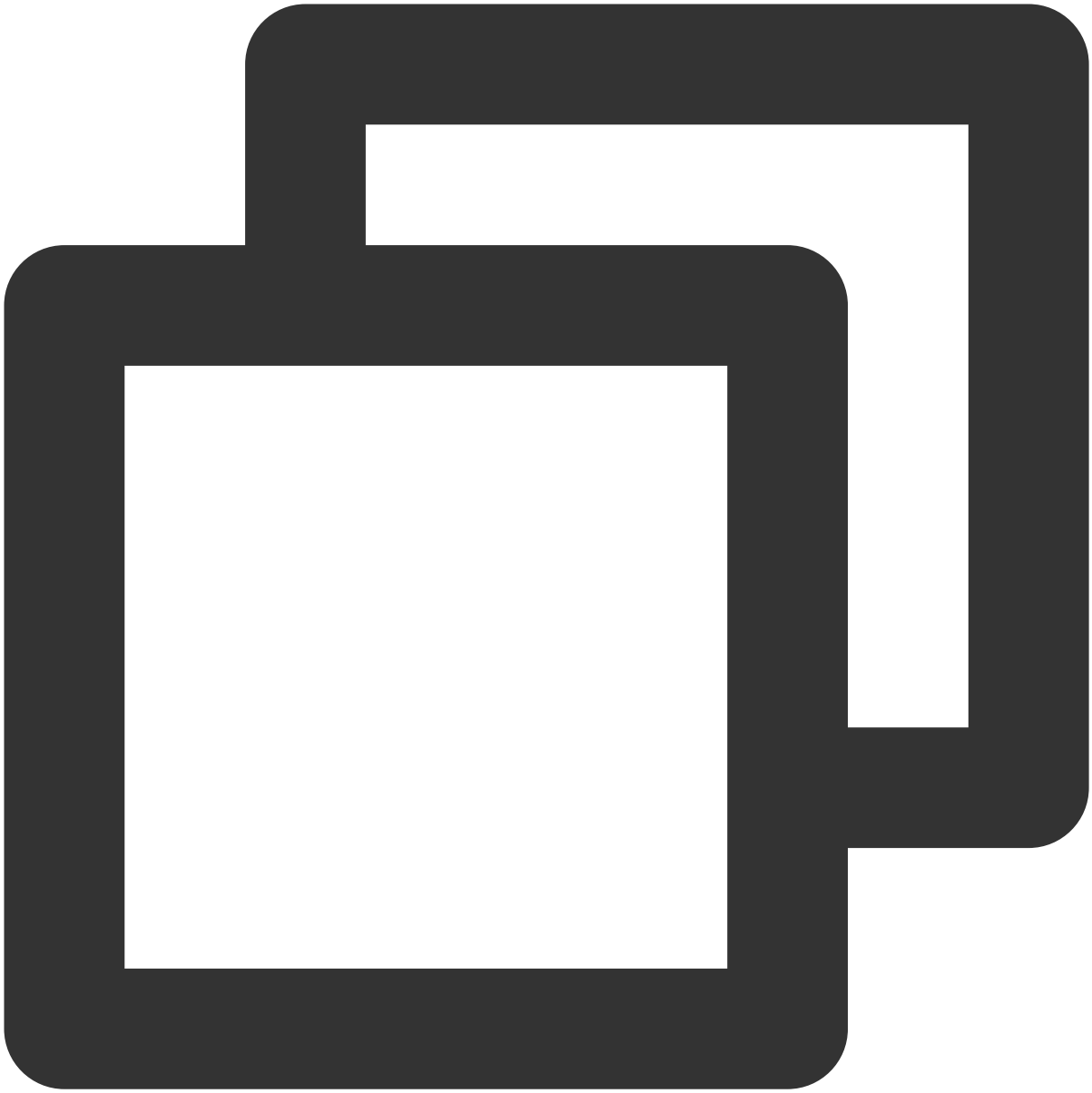
Grayscale Image

Feature description

COS uses CI's **imageMogr2/grayscale** API to set an image to be a grayscale image.

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - grayscale image. For more information, visit https://clou
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->grayscale(1); // Conversion of the image to grayscale image /graysc
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Operation: grayscale

Parameter	Description
/grayscale/<value>	Whether to set an image to be a grayscale image. Valid values of the `value` field: `0` (no), `1` (yes).
/ignore-error/1	If this parameter is carried and the image fails to be processed because the image is too large, the input image will be returned with no error reported.

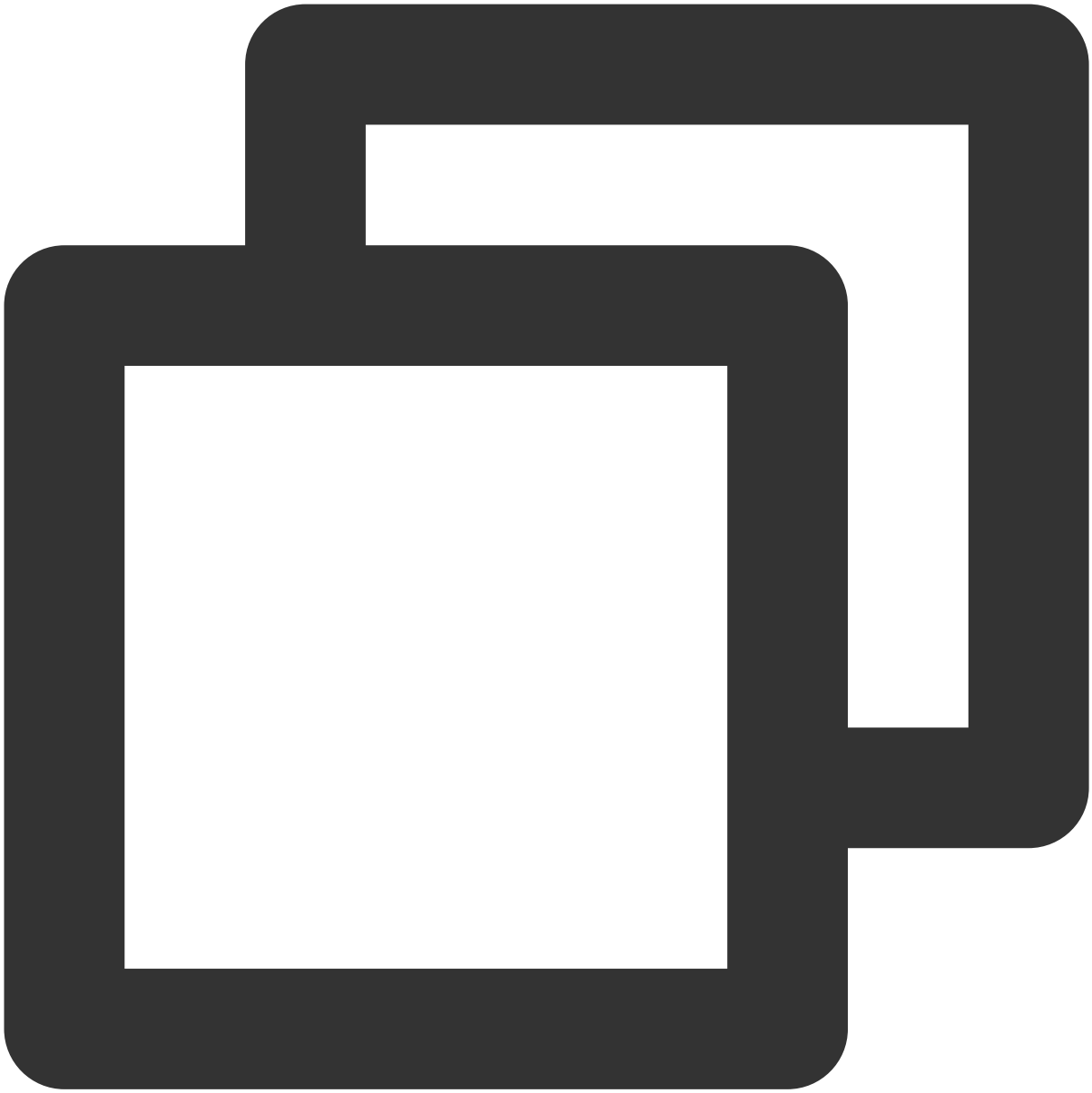
Image Watermark

Feature description

COS implements image watermarking using the **watermark** API provided by CI, and thus only images stored in CI-bound buckets can be processed. For the restrictions on Basic Image Processing (including watermarking), please see Rules and Limits.

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - image watermark. For more information, visit https://clou
    $imageWatermarkRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageWatermarkTempla
    $imageWatermarkRule->setImage('https://www.xxx.com/xxx.jpg'); // Watermark imag
    $imageWatermarkRule->setGravity('SouthEast'); // Image watermark position
    $imageWatermarkRule->setDx(10); // Horizontal offset in px. Default value: `0`.
    $imageWatermarkRule->setDy(10); // Vertical offset in px. Default value: `0`.
    $imageWatermarkRule->setBlogo(1); // Adaptation mode for an image watermark tha
    $imageWatermarkRule->setScatype(1); // Scale the image watermark to the size of
    $imageWatermarkRule->setSpcent(200); // Use together with `scatype`
    $imageWatermarkRule->setDissolve(70); // Image watermark opacity
    $imageWatermarkRule->setBatch(1); // Tile the image watermark
    $imageWatermarkRule->setDegree(90); // Set the angle to rotate the image waterm

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageWatermarkRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageWatermarkRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
```

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```
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameters

In the code above, `watermark` is the operation name and the number `1` indicates that the watermark is an image.

Parameter	Description
/image/	Image watermark URL, which must be URL-safe Base64-encoded. For example, if the image waterm `http://examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/shuiyin_2.p` `aHR0cDovL2V4YW1wbGVidWNrZXQtMTI1MDAwMDAwMC5jb3MuYXAtc2hhbmdoYWkubXlxY2xv`
/gravity/	Position of the image watermark, which is a square in a 3x3 grid. Default value: `SouthEast` .
/dx/	Horizontal offset in px. Default value: `0` .
/dy/	Vertical offset in px. Default value: `0` .
/blogo/	Adaptation mode for an image watermark that is larger than the input image. Valid values: `1` (scale 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). Valid values: `1` (scales by widt by area).
/spcent/	Scale ratio of the image watermark in permillage. This parameter must be used together with `scaty` `scatype` is set to `1`); 1–1000 (if `scatype` is set to `2`); 1–250 (if `scatype` is set to `3` `1251000004.cos.ap-shanghai.myqcloud.com/sample.jpeg?watermark/1/image/xxx`
/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
/degree/	Angle to rotate the image watermark. This parameter will take effect only when `/batch/` is set to `0` .

Note:

An image watermark must:

Be stored in the same bucket as the input image.

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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.

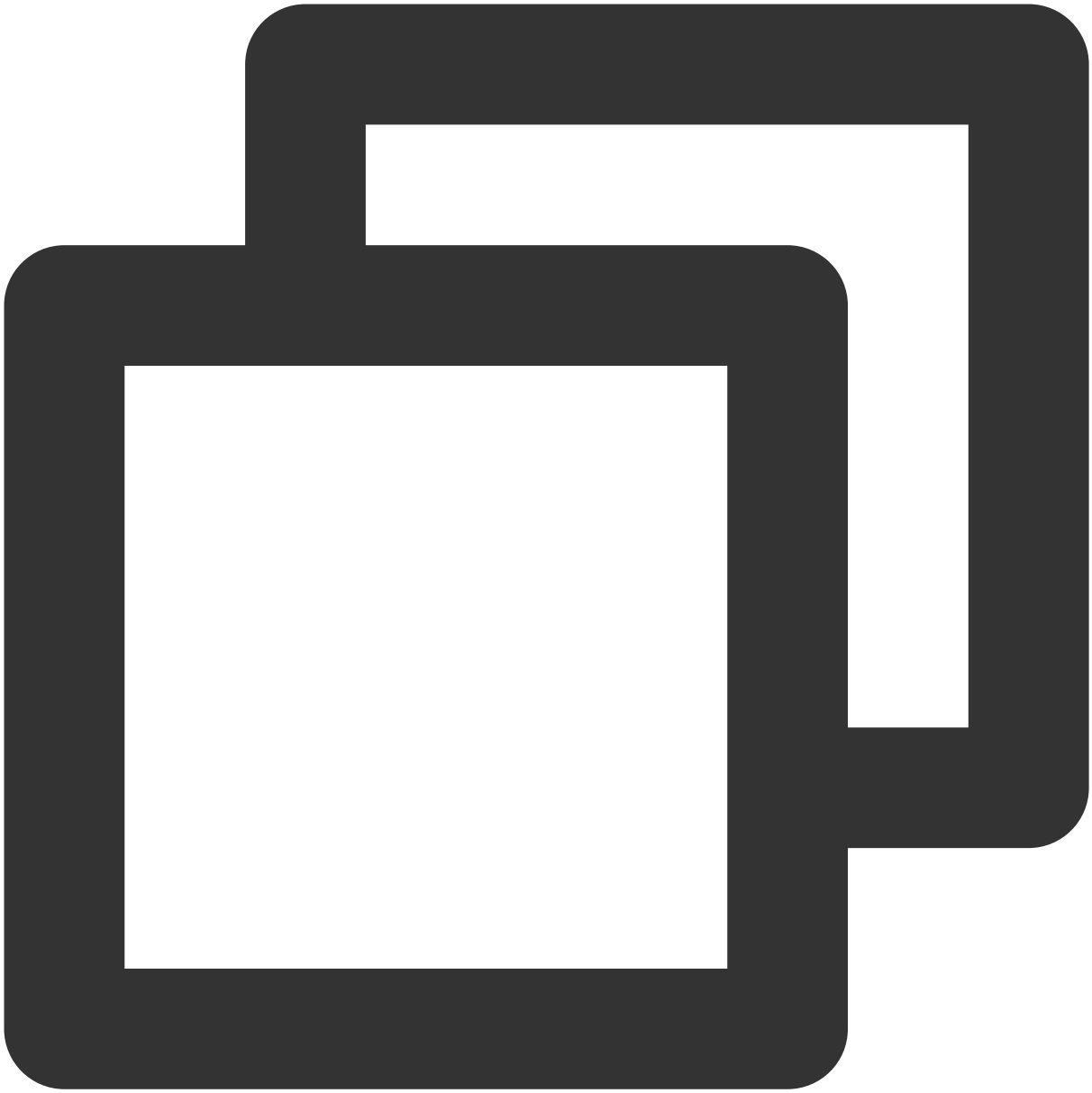
Text Watermark

Feature description

COS uses the **watermark** API provided by CI to add text watermarks in real time. 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.

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - text watermark. For more information, visit https://cloud
    $textWatermarkRule = new Qcloud\\Cos\\ImageParamTemplate\\TextWatermarkTemplate
    $textWatermarkRule->setText('Watermark content'); // Watermark content
    $textWatermarkRule->setFont('tahoma.ttf'); // Watermark font
    $textWatermarkRule->setFontsize(13); // Watermark text font size
    $textWatermarkRule->setFill('#3D3D3D'); // Font color. The value must be in hex
    $textWatermarkRule->setDissolve(90); // Text opacity. Value range: 1-100. Defau
    $textWatermarkRule->setGravity('SouthEast'); // Position of the text watermark
    $textWatermarkRule->setDx(10); // Horizontal offset in px. Default value: `0`.
    $textWatermarkRule->setDy(10); // Vertical offset in px. Default value: `0`.
    $textWatermarkRule->setBatch(1); // Whether to tile the text watermark. If this
    $textWatermarkRule->setDegree(10); // Angle to rotate the text watermark. This
    $textWatermarkRule->setShadow(10); // Text shadow effect. Value range: 0-100. D

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($textWatermarkRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $textWatermarkRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
```

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```
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameters

In the code above, `watermark` is the operation name and the number `2` indicates that the watermark is a text.

Parameter	Description
/text/	Watermark text, which must be URL-safe Base64-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 px. Default value: `0`.
/dy/	Vertical offset in px. 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.
/degree/	Angle to rotate the text watermark. This parameter will take effect 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` (no shadow).

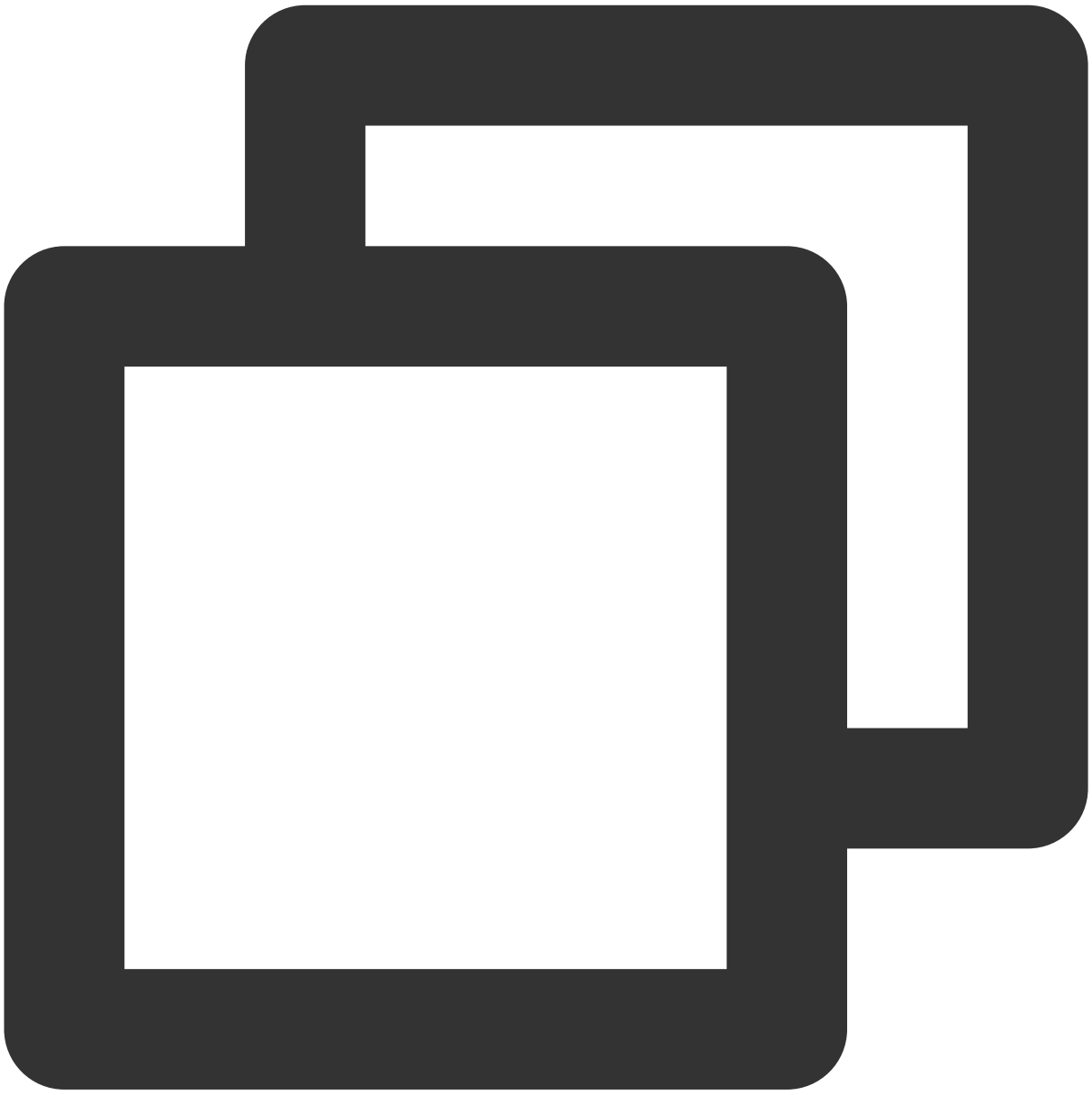
Basic Image Information Acquisition

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Feature description

COS uses the **imageInfo** API provided by CI to query an image's basic information such as its format, width, and height.

Sample codes



```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';
```

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```
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->ImageInfo(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameters

Operation: imageInfo

Parameter	Description
Key	Object name, such as `folder/sample.jpg` .

Response parameters

Parameter	Description
format	Image type, such as PNG and GIF.
width	Image width in px.
height	Image height in px.
size	Image size in bytes.
md5	Image MD5 value.
frame_count	Number of frames. For static images, this value is `1` .

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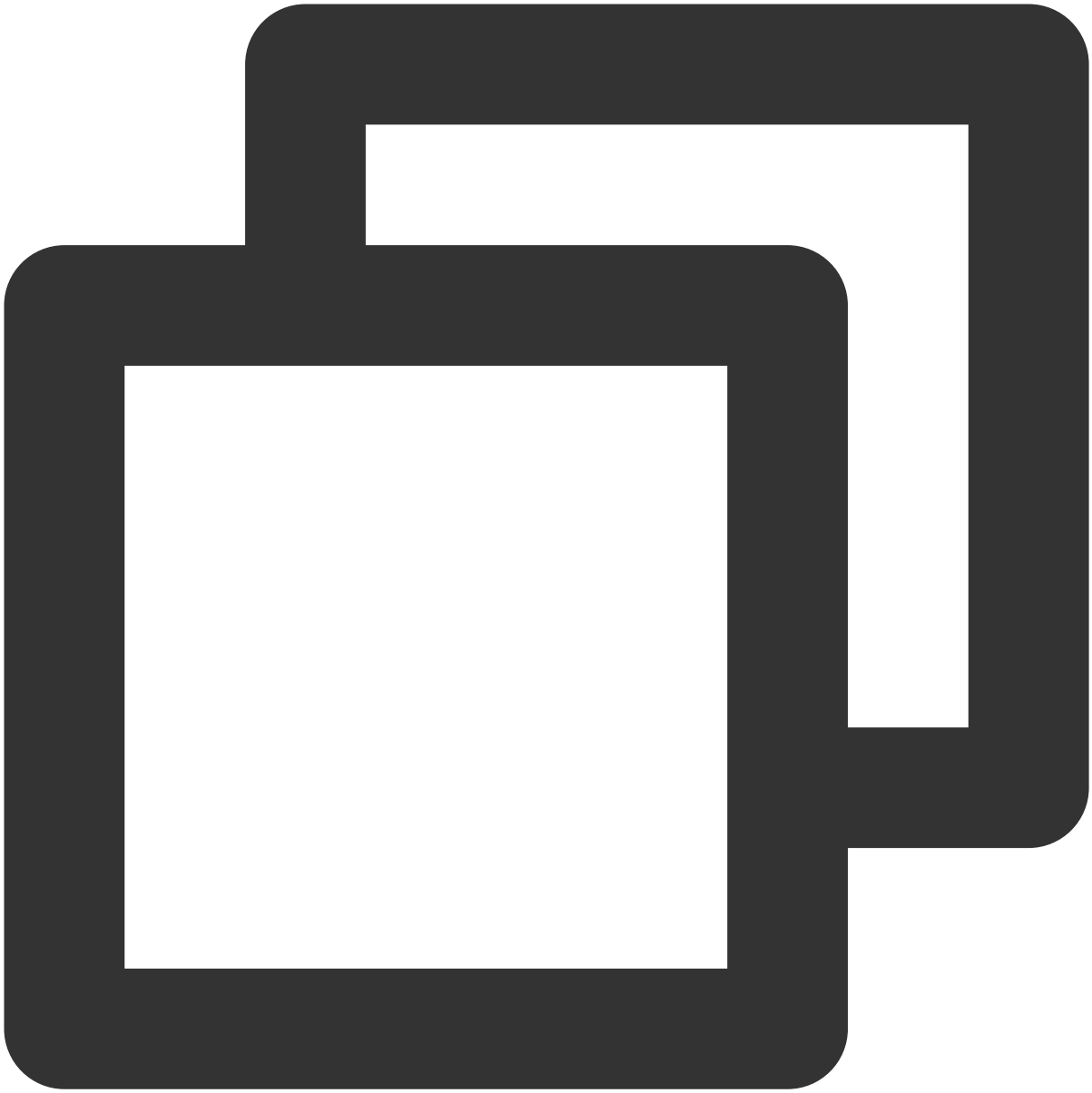
Image EXIF Data Acquisition

Feature description

Exchangeable Image File (EXIF) records the camera settings, thumbnails, and other attributes of digital images. COS uses the **exif** API provided by CI to obtain 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 an 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.

Sample codes

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->ImageExif(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameters

Operation: exif

Parameter	Description
Key	Object name, such as `folder/sample.jpg` .

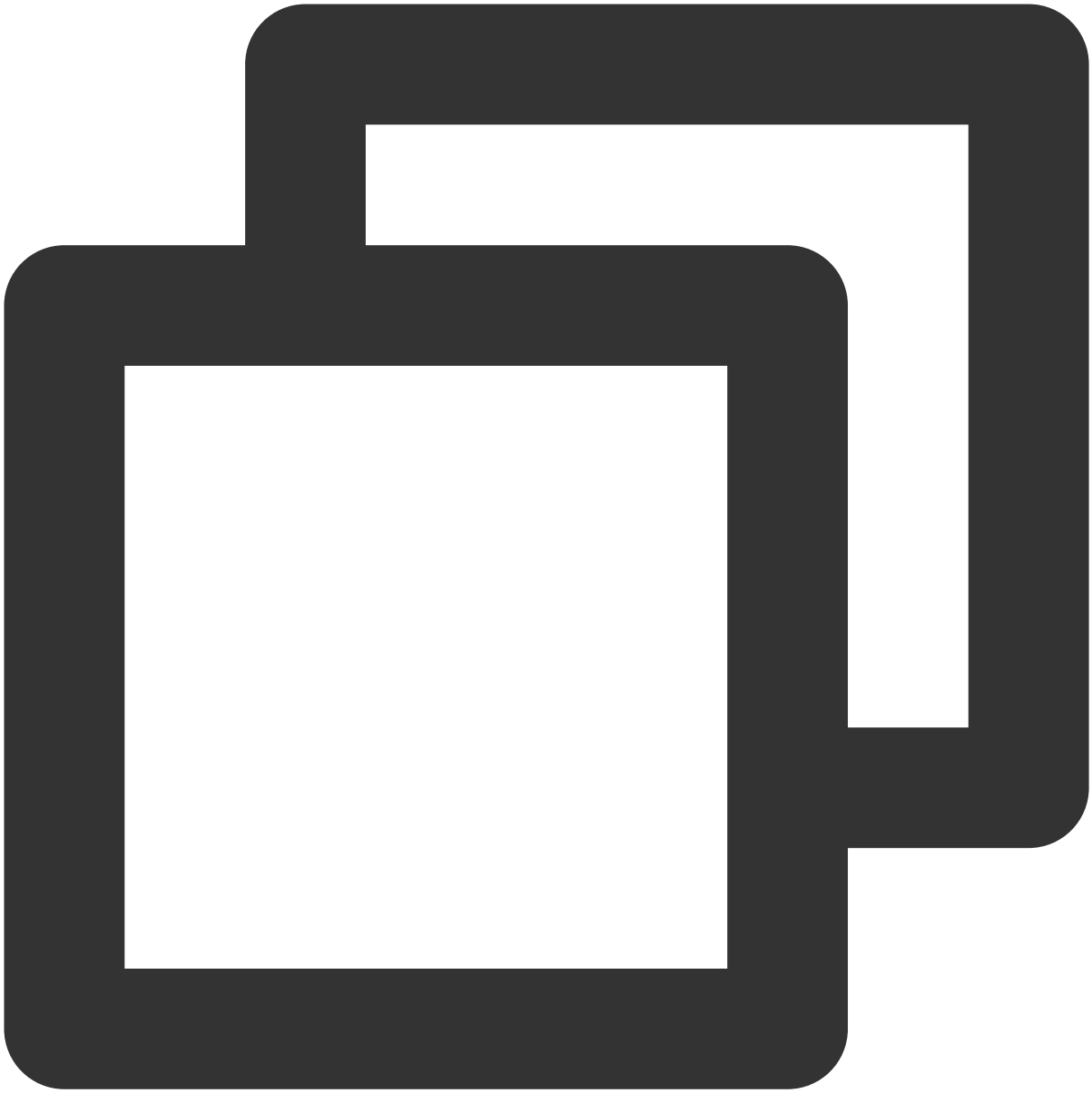
Image Average Hue Acquisition

Feature description

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.

Sample codes

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->ImageAve(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameters

Operation: imageAve

Parameter	Description
Key	Object name, such as `folder/sample.jpg` .

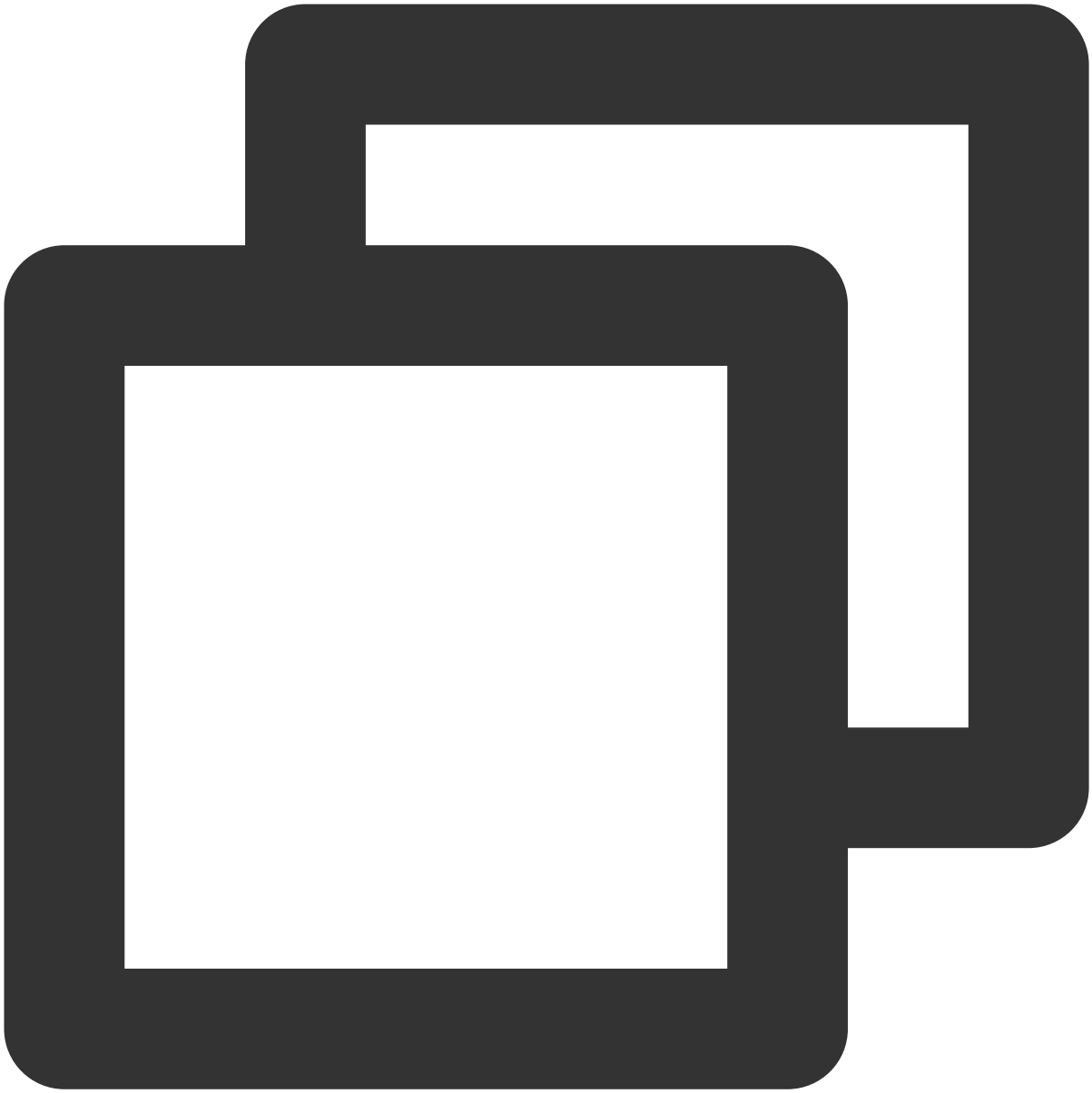
Removing Image Metadata

Feature description

COS uses the **imageMogr2** API provided by CI to remove image metadata, including EXIF data.

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - metadata removal. For more information, visit https://clo
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->strip(); // Remove the image metadata, including EXIF data.  /strip
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Operation: strip

Parameter	Description
/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.

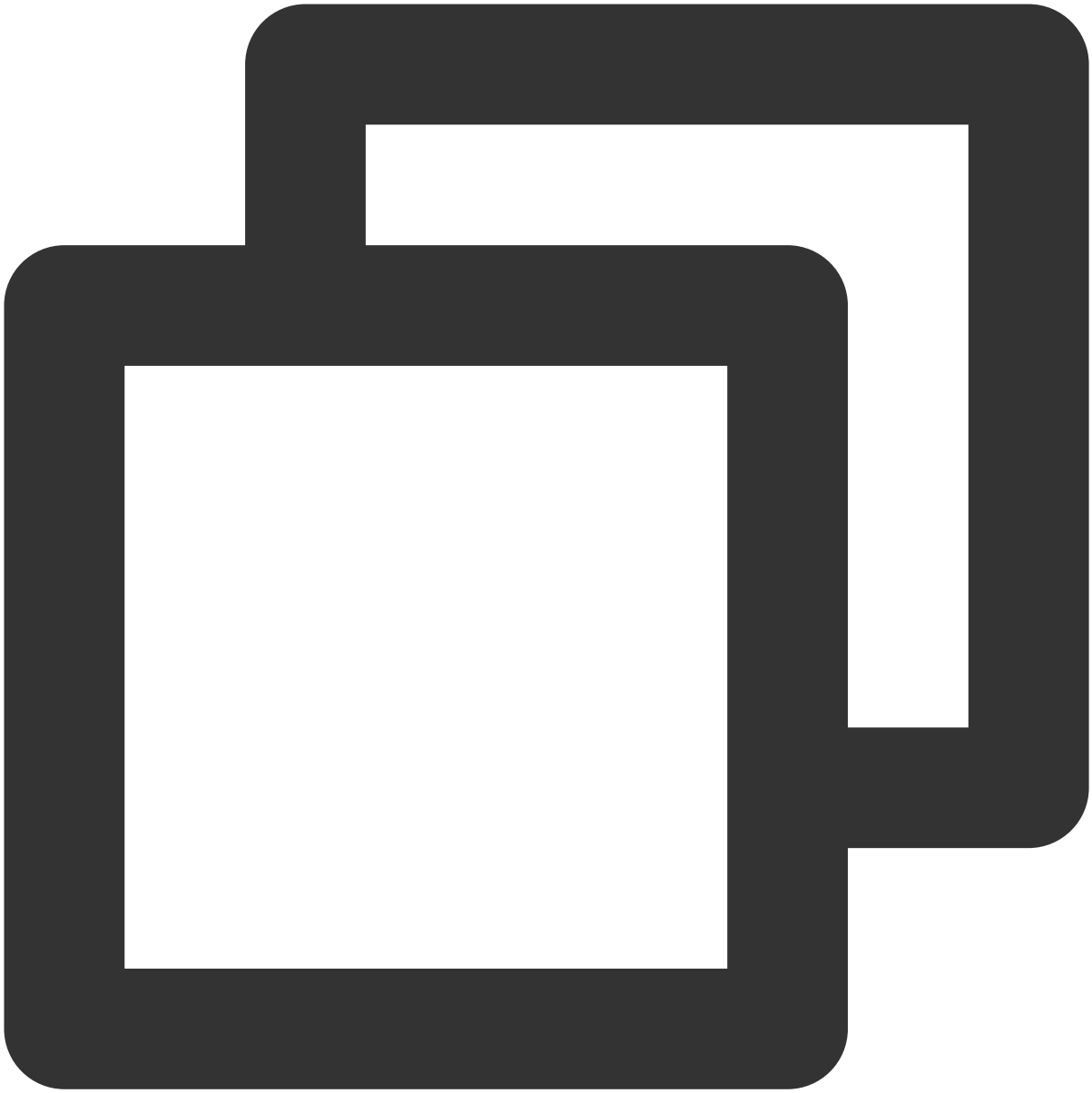
Quick Thumbnail Template

Feature description

COS uses the **imageView2** API of Cloud Infinite (CI) to provide a common image processing template. You can append parameters to the download URL to generate the desired thumbnail. 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 (GIF frame limit: 300).

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - quick thumbnail template. For more information, visit htt
    $imageViewRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageViewTemplate();
    $imageViewRule->setMode(1); // /<mode>
    $imageViewRule->setWidth(400); // /w/<Width>
    $imageViewRule->setHeight(600); // /h/<Height>
    $imageViewRule->setFormat('jpg'); // /format/<Format>
    $imageViewRule->setQuality(1, 85); // 1-/q/<Quality>; 2-/rq/<quality>; 3-/lq/<q
    $imageViewRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageViewRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageViewRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
```

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```
    // Request failed
    echo($e);
}
```

Parameters

Parameter	Description
/1/w/<Width>/h/<Height>	Specifies the minimum width and height of the thumbnail. In this mode, the image will be 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 1000x500 and this parameter is set to `?imageView2/1/w/500/h/400`, the image will be scaled down to 800x400 first. Then, 150 pixels will be cropped from the left and right sides respectively, outputting a 500x400 thumbnail.
/2/w/<Width>/h/<Height>	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 1000x500 and this parameter is set to `?imageView2/2/w/500/h/400`, the image is scaled down to 500x250. If only one value is set, the image will be adapted.
/3/w/<Width>/h/<Height>	Specifies the minimum width and height of the thumbnail. In this mode, the image will be scaled down until both the width and height are not smaller than the minimum values set. For example, if the input image size is 1000x500 and this parameter is set to `?imageView2/3/w/500/h/400`, the image will be scaled down to 800x400. If only one value is set, a square thumbnail will be generated.
/4/w/<LongEdge>/h/<ShortEdge>	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>	Specifies the maximum values of the long edge and short edge of the thumbnail to scale down the image. The image will be 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. The value can be 0–100. Use the value of the original image quality (default) or the specified quality, whichever is smaller. If there is an

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	exclamation mark (!) after <Quality> , the specified quality value is forcibly used.
/rq/<quality>	Image quality relative to that of the input image. The value can be 0–100. For example, if the input image quality is 80 and `rquality` is set to `80` , the quality of the output image will be 64 (80 * 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 will be 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.

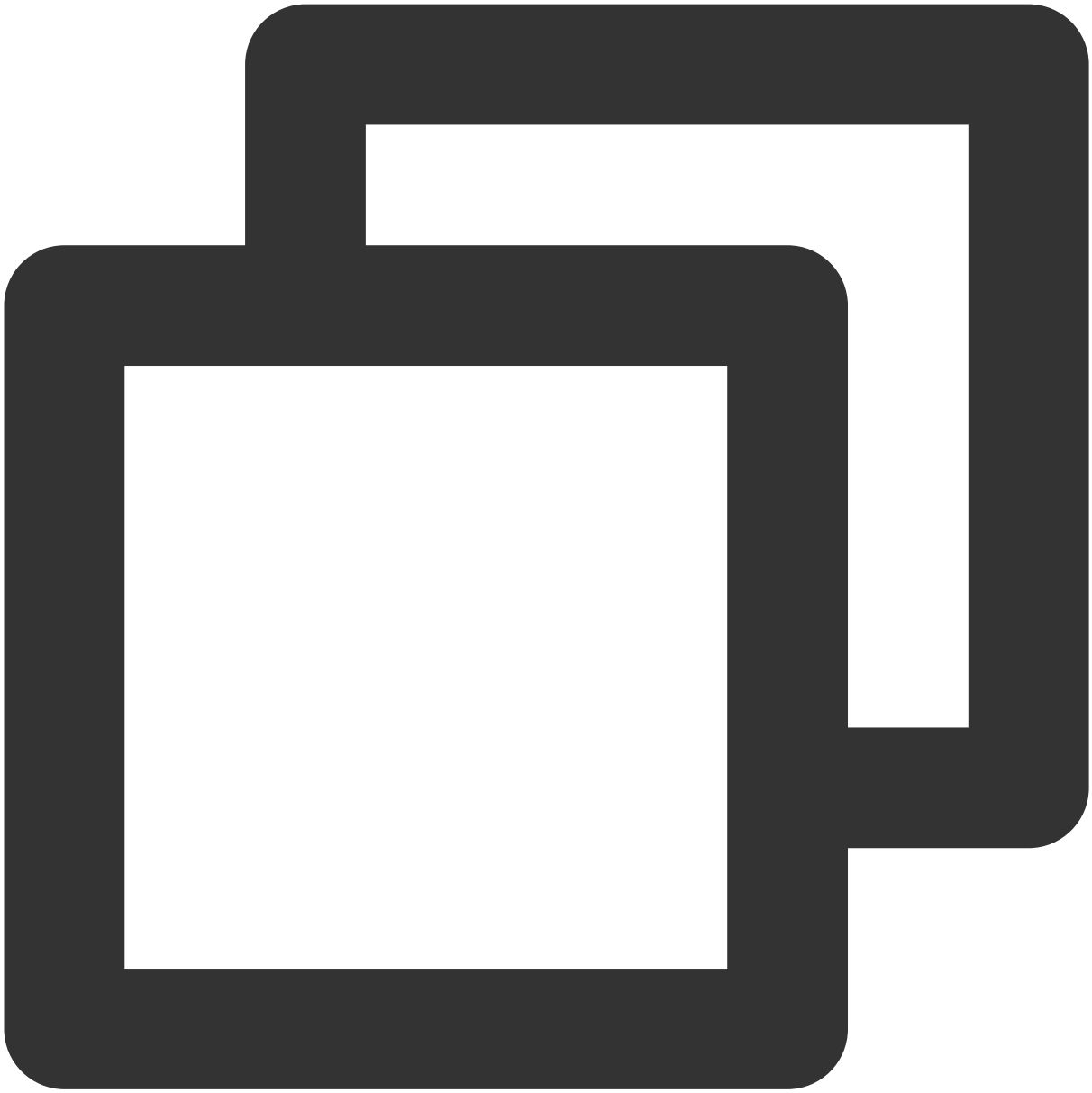
Image Size Limiting

Feature description

COS uses the **imageMogr2/size-limit** API provided by CI to limit the size of an image processed (e.g., scaled or compressed).

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - image size limiting. For more information, visit https://
    $imageRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageRule->sizeLimit(15, 1); // Limit the size of an output image, such as a s
    $imageRule->ignoreError(); // /ignore-error/1

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($imageRule, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $imageRule->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameters

Operation: size-limit

Parameter	Description
size-limit	Limits the size of the output image. The unit can be `k` (KB) or `m` (MB). 1. Only JPG images are supported. 2. Appending an exclamation mark (!) means to compare the sizes of the input and output images. If the output image is smaller, the output image will be returned; otherwise, the input image will be returned; for example, `examplebucket-1250000000.cos.ap-shanghai.myqcloud.com/picture.jpg?imageMogr2/size-limit/15k!` . 3. We recommend you use this parameter together with `strip` to remove redundant image metadata, for 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.

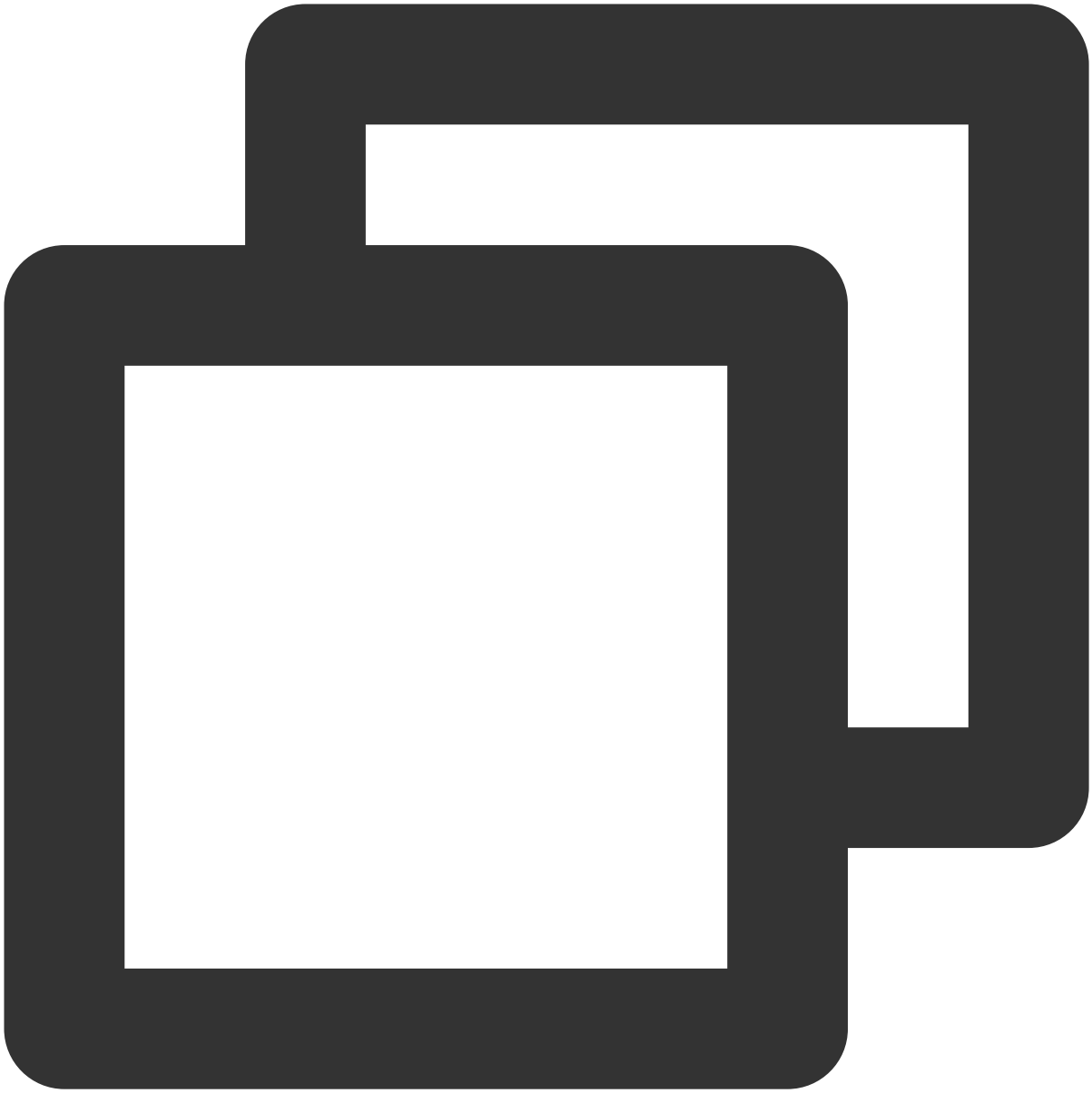
Pipeline Operator

Feature description

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.

Sample codes

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```
<?php


require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
```

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```
        'schema' => 'https', // Protocol, which is `http` by default
        'credentials' => array(
            'secretId'  => $secretId,
            'secretKey' => $secretKey)));
try {
    // Image processing - pipeline operator. For more information, visit https://cl
    $imageMogrRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate();
    $imageMogrRule->thumbnailByScale(50);
    $imageMogrRule->rotate(50);
    $imageViewRule = new Qcloud\\Cos\\ImageParamTemplate\\ImageViewTemplate();
    $imageViewRule->setMode(1);
    $imageViewRule->setWidth(400);
    $imageViewRule->setHeight(600);
    $imageViewRule->setQuality(1, 85);
    $ciParamChannel = new Qcloud\\Cos\\ImageParamTemplate\\CIParamTransformation();
    $ciParamChannel->addRule($imageMogrRule); // Multiple processing methods connec
    $ciParamChannel->addRule($imageViewRule); // Multiple processing methods connec

    $picOperations = new Qcloud\\Cos\\ImageParamTemplate\\PicOperationsTransformati
    $picOperations->setIsPicInfo(1); // is_pic_info
    $picOperations->addRule($ciParamChannel, "output.png"); // rules

    // -------------------- 1. Processing during download -------------------- //
//    $downloadUrl = $cosClient->getObjectUrl('examplebucket-1250000000', 'xxx.jpg'
    $downloadUrl = 'https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/
    $rule = $ciParamChannel->queryString();
    echo "{$downloadUrl}?{$rule}";
//    echo "{$downloadUrl}&{$rule}"; // The URL of an image with a signature is con
    // -------------------- 1. Processing during download -------------------- //

    // -------------------- 2. Processing during upload -------------------- //
    $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'object.jpg',
        'Body' => fopen('/tmp/local.jpg', 'rb'), // Local file
        'PicOperations' => $picOperations->queryString(),
    ));
    // Request succeeded
    print_r($result);
    // -------------------- 2. Processing during upload -------------------- //

    // -------------------- 3. Processing in-cloud data -------------------- //
    $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'test.png',
        'PicOperations' => $picOperations->queryString(),
    ));
```

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```
    // Request succeeded
    print_r($result);
    // -------------------- 3. Processing in-cloud data -------------------- //
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameters

Multiple processing styles are separated by the pipeline operator `|` and executed in sequence. Currently, there can be a maximum of 10 pipelines.

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Image Style

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for image styles.

API	Description
Adding style	Adds a style to a bucket.
Querying styles	Queries styles set for a bucket.
Deleting style	Deletes a style from a bucket.

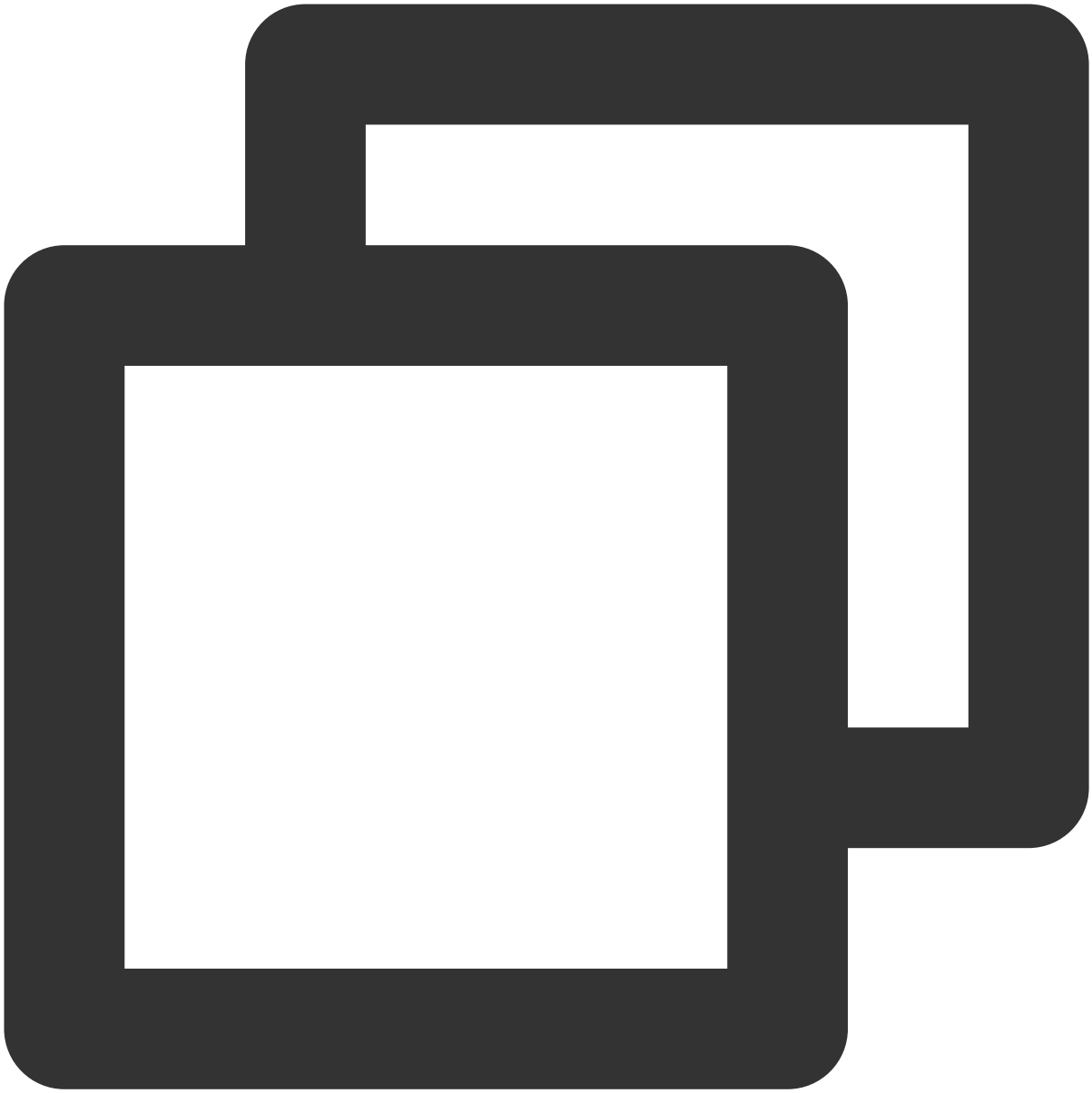
Adding Style

Feature description

This API is used to add a style to a bucket. This style will be added to images subsequently uploaded to this bucket.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

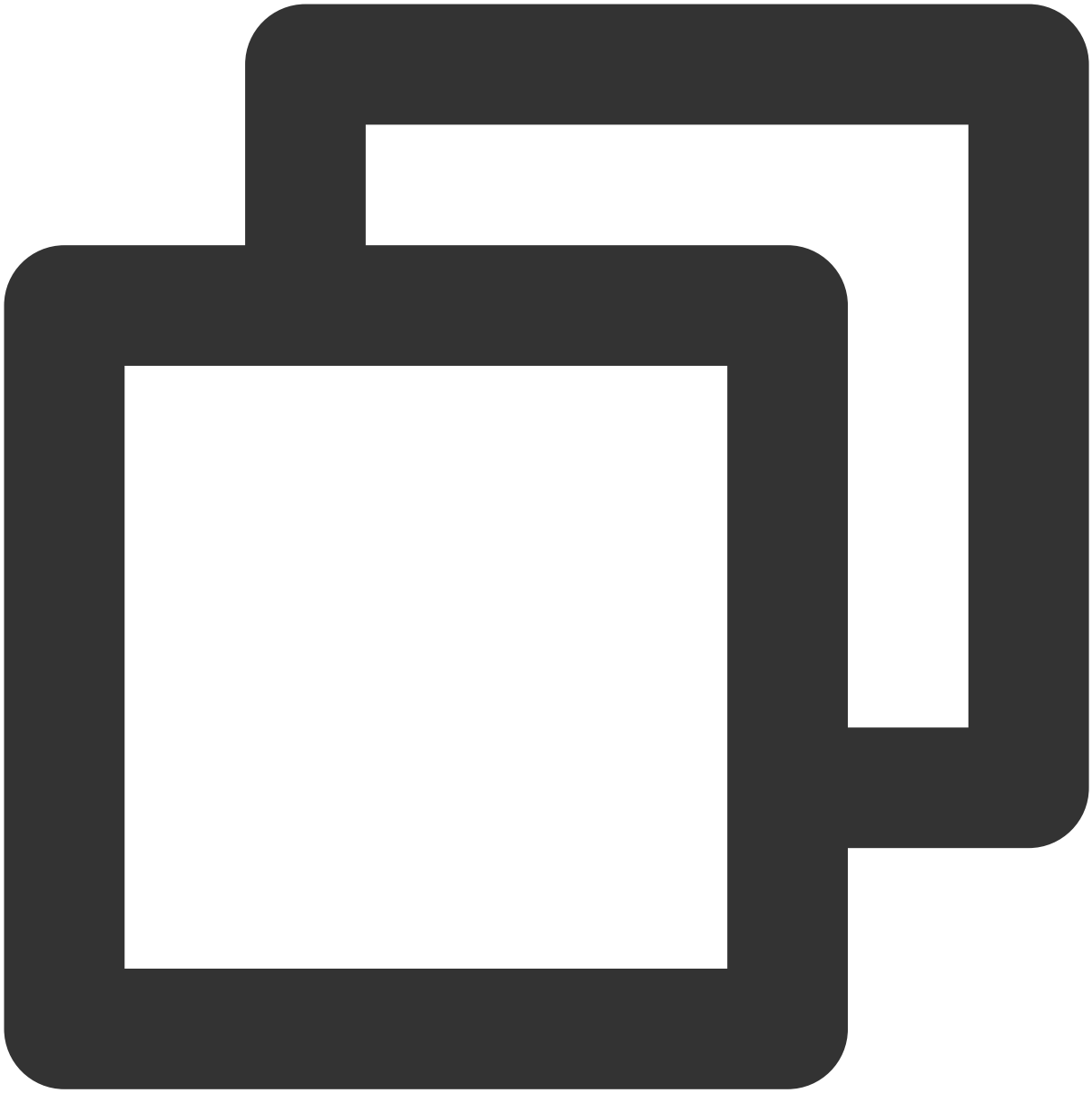
try {
        $result = $cosClient->PutBucketImageStyle(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'StyleName' => 'style_name',// Style name
        'StyleBody' => 'imageMogr2/thumbnail/!50px', // Style information
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
StyleName	String	Style name	Yes
StyleBody	String	Style information	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
        (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.pic.ap-beijing.myqcloud.com/
        )
)
```

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Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None

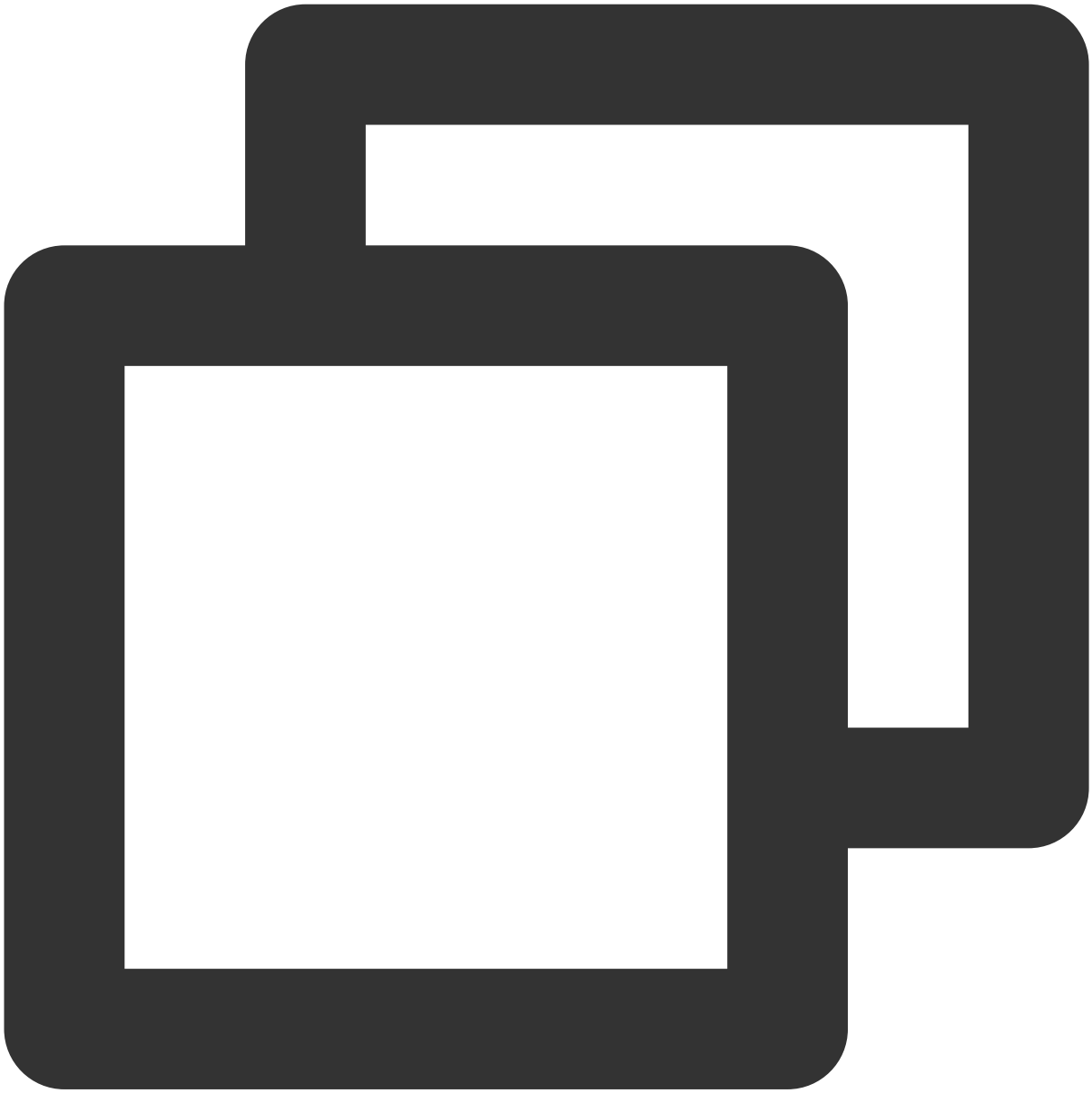
Querying Styles

Feature description

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

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

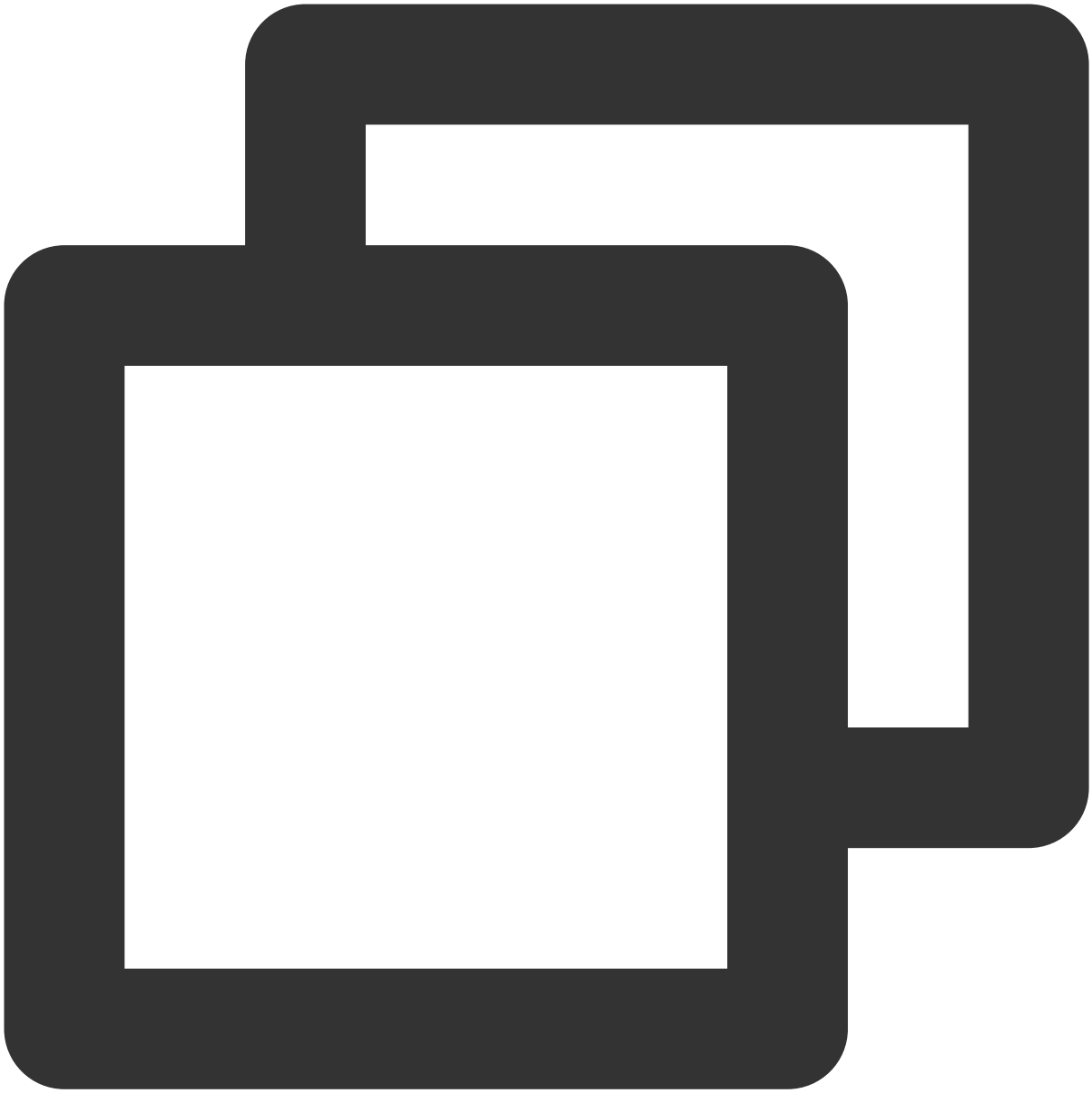
try {
        $result = $cosClient->GetBucketImageStyle(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'StyleName' => 'style_name', // Style name
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
StyleName	String	Style name	No

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
        (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.pic.ap-beijing.myqcloud.com/
            [StyleRule] => Array(
                [0] => Array(
                    [StyleName] => style_name
```

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```
                    [StyleBody] => imageMogr2/thumbnail/!50px
                )
            )
        )
)
```

Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
StyleRule	Array	List of style information	None

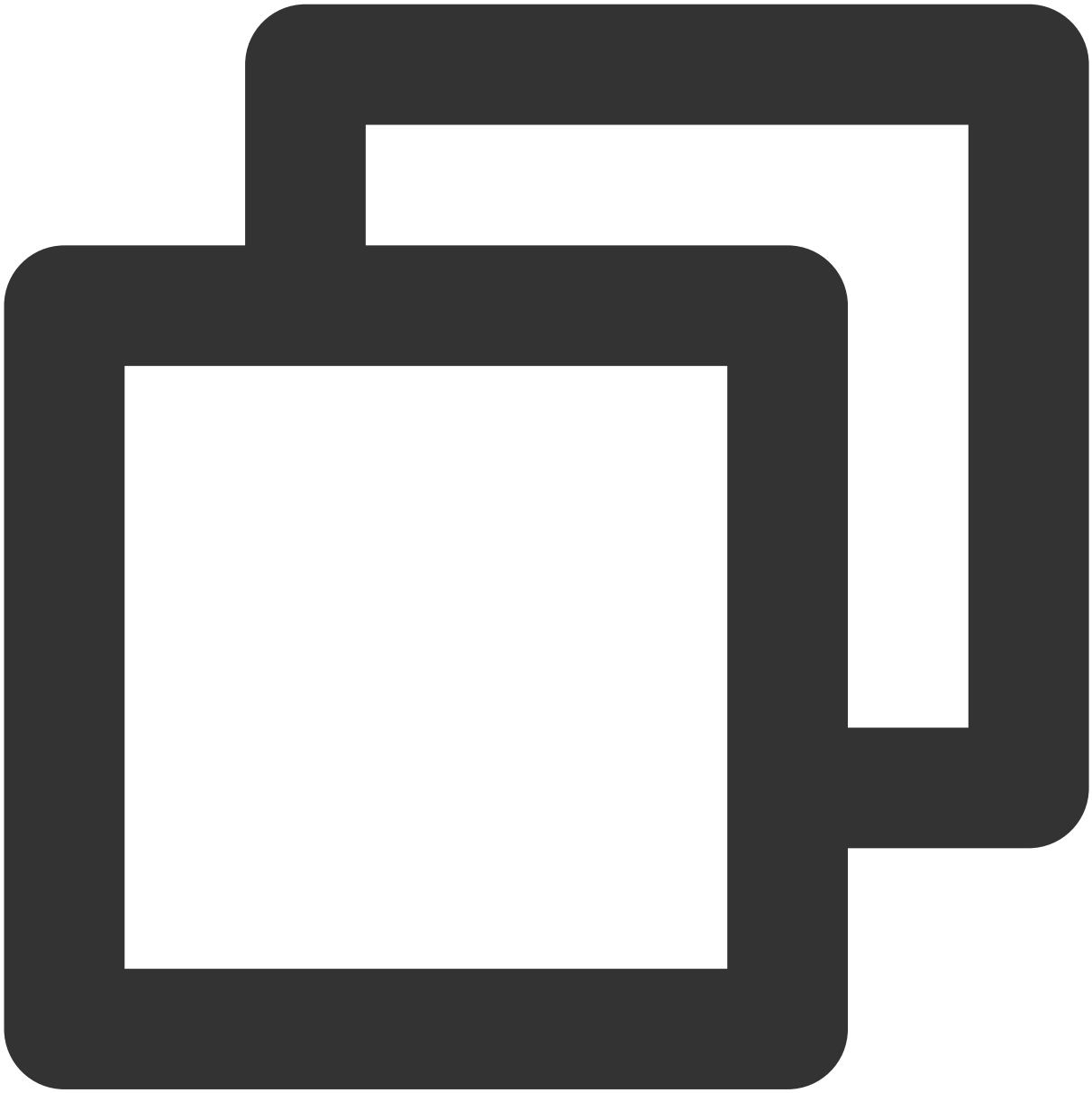
Deleting Style

Feature description

This API is used to delete a style from a bucket.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

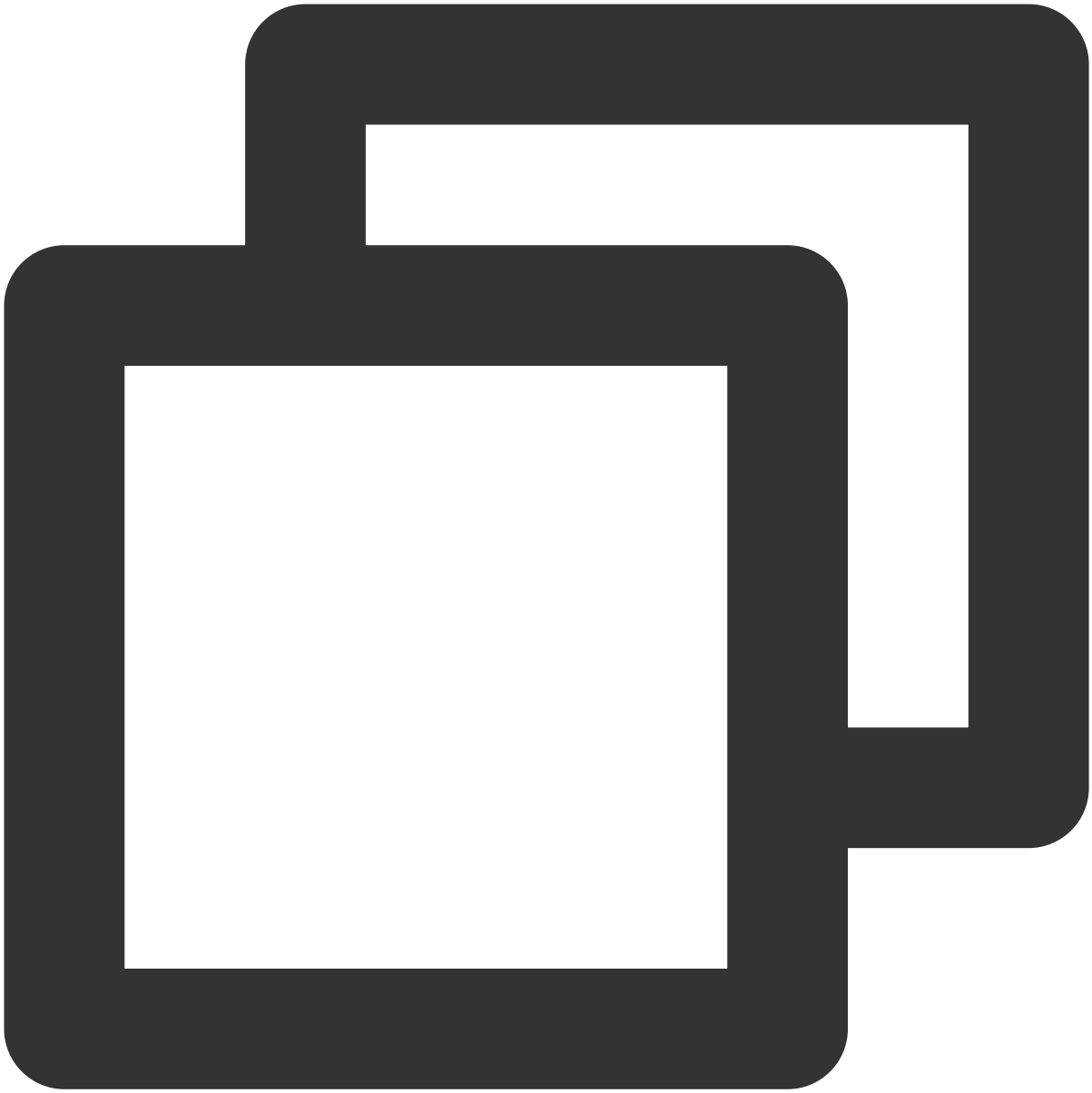
try {
        $result = $cosClient->DeleteBucketImageStyle(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'StyleName' => 'style_name', // Style name
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
StyleName	String	Style name	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
        (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.pic.ap-beijing.myqcloud.com/
        )
)
```

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Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None

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Persistent Image Processing

Last updated：2024-03-01 14:43:58

Overview

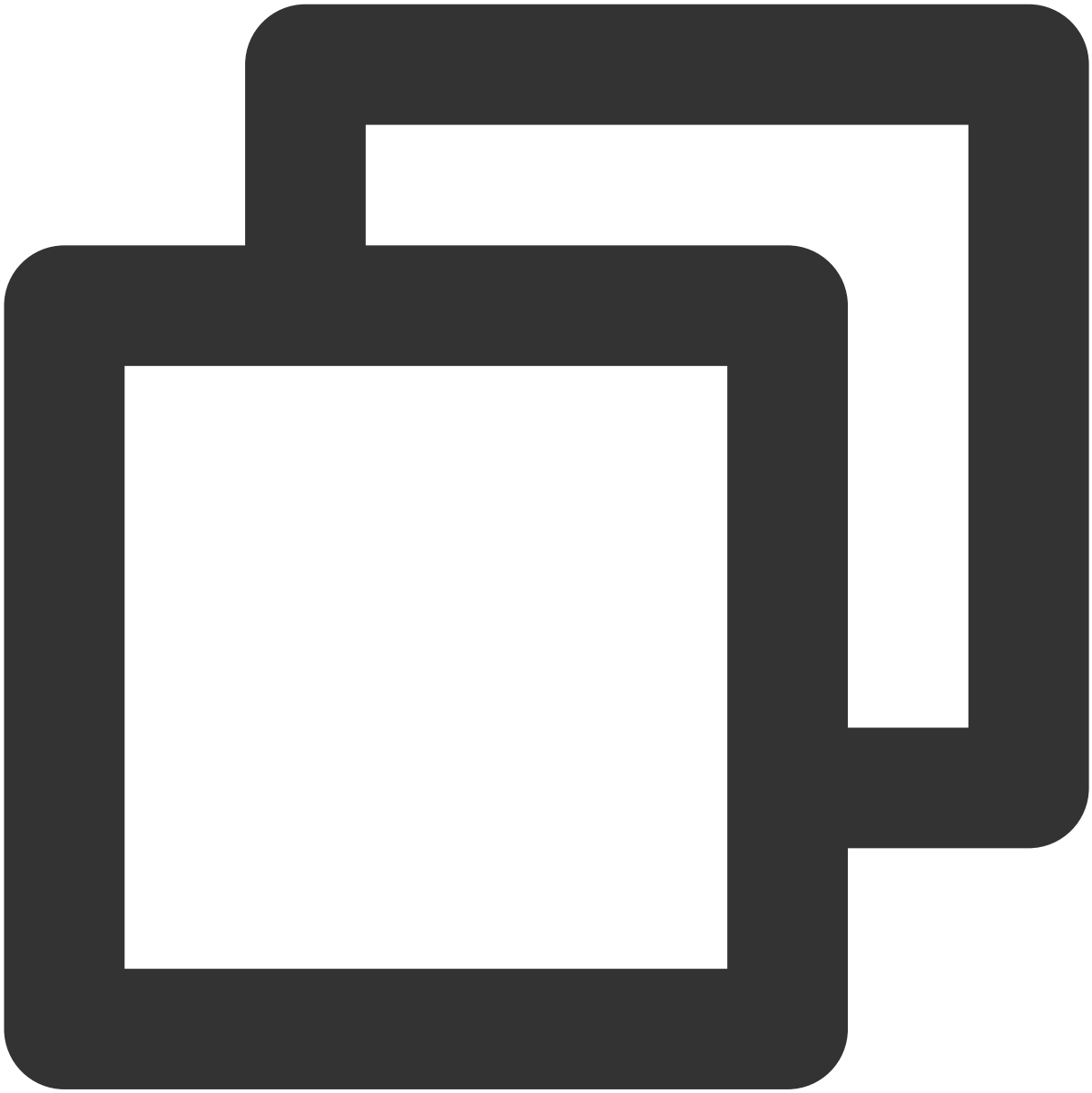
This document provides an overview of APIs and SDK code samples for persistent image processing.

API	Description
Persistent image processing	Processes an image during upload, or processes an image stored in COS and saves the processing result to COS.

Processing During Upload

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

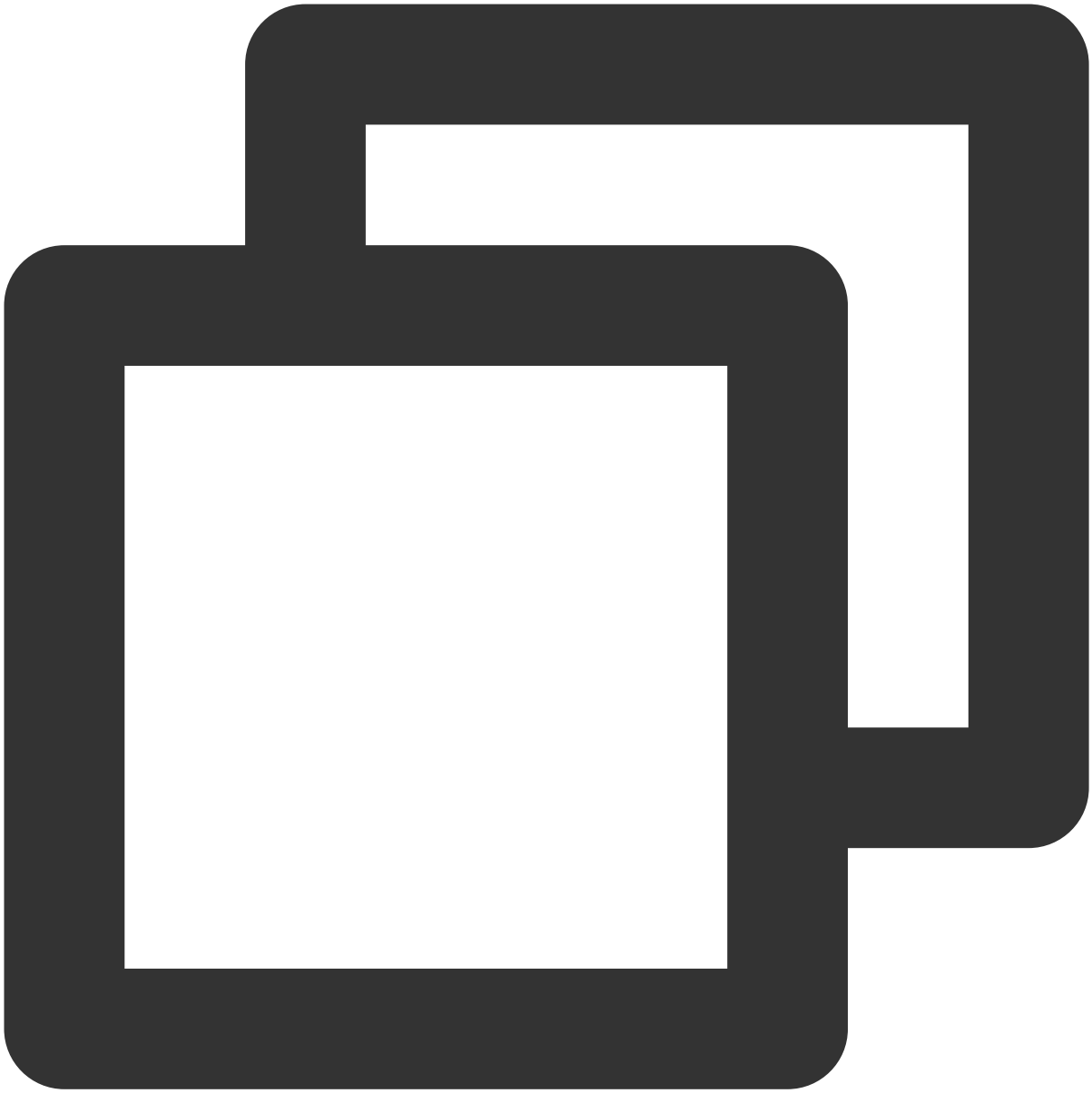
try {
        $imageMogrTemplate = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate
        $imageMogrTemplate->thumbnailByScale(50);// Scale an image to 50% of its or
        $picOperationsTemplate = new \\Qcloud\\Cos\\ImageParamTemplate\\PicOperatio
        $picOperationsTemplate->setIsPicInfo(1);// Set whether to return the input
        $picOperationsTemplate->addRule($imageMogrTemplate, "resultobject");// Set
        $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
        'Body' => fopen('path/to/localFile', 'rb'),
        'PicOperations' => $picOperationsTemplate->queryString(),// Generate parame
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes
Body	File/String	Uploaded content	Yes
PicOperations	Json/String	Persistent image processing information	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
    (
            [Body] =>
            [ETag] => "698d51a19d8a121ce581499d7b701668"
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [ContentLength] => 238186
            [Key] => exampleobject
            [Bucket] => examplebucket-1250000000
```

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```
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
            [Data] => Array
            (
                [OriginalInfo] => Array
                (
                    [Key] => exampleobject
                    [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.
                    [ETag] => "7037fb6fb4cca43b958a28789605e73d98088720"
                    [ImageInfo] => Array
                    (
                            [Format] => JPEG
                            [Width] => 600
                            [Height] => 500
                            [Quality] => 90
                            [Ave] => 0x46442e
                            [Orientation] => 0
                     )

                )
                [ProcessResults] => Array
                (
                    [Object] => Array
                    (
                        [0] => Array(
                            [Key] => resultobject
                            [Location] => examplebucket-1250000000.cos.ap-beijing.m
                            [Format] => JPEG
                            [Width] => 300
                            [Height] => 200
                            [Size] => 30000
                            [Quality] => 90
                            [ETag] => "87c153bc2909aa0ba111ca126b675c510d36b817"
                        )
                    )
                )
            )
    )
)
```

Response description

Parameter	Type	Description	Parent Node
Body	File/String	Response body	None
ETag	String	MD5 checksum of the file	None

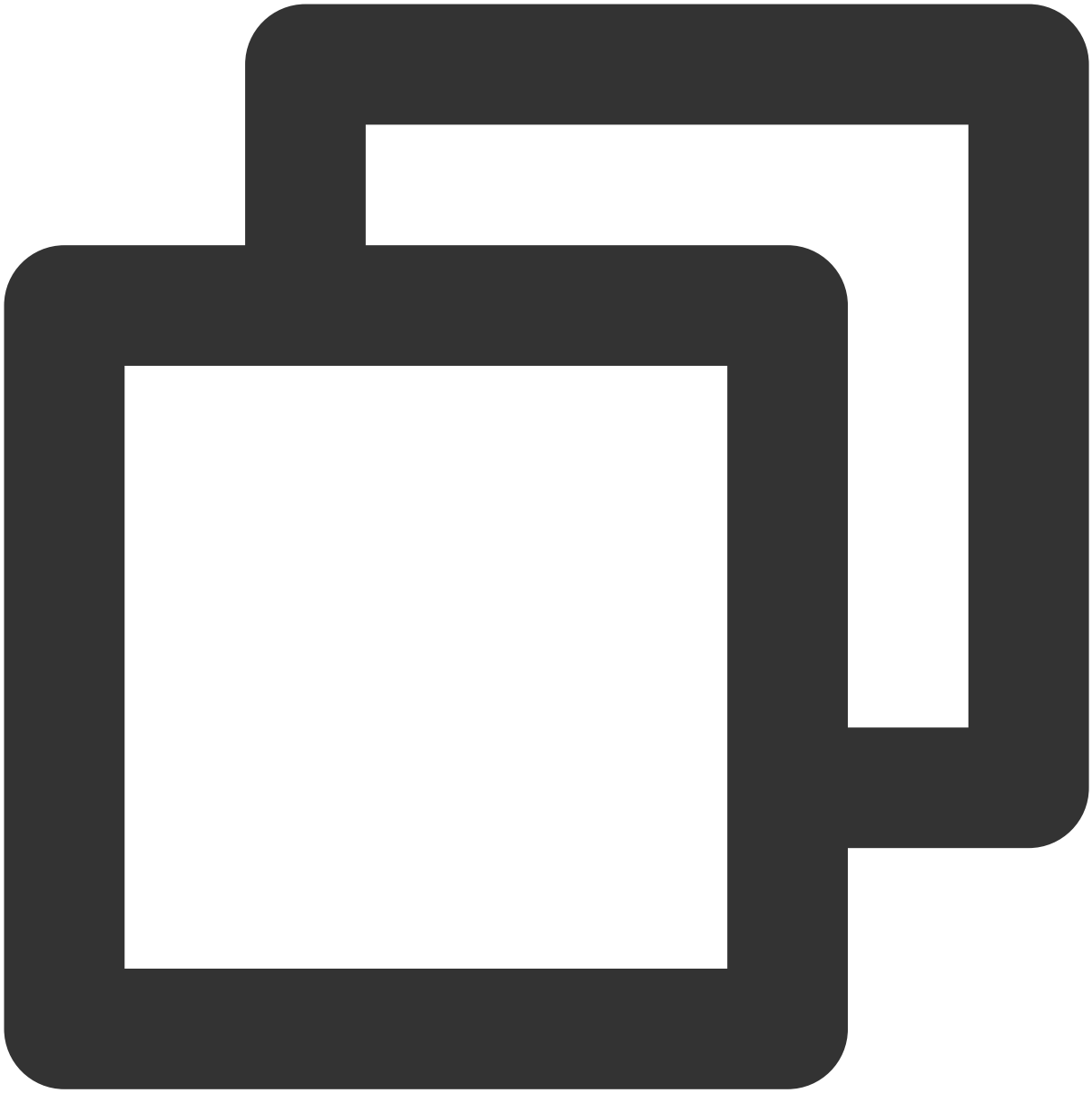
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RequestId	String	Request ID	None
ContentLength	Int	Length of the response body	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
Data	Array	Image processing result	None

Processing In-Cloud Data

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

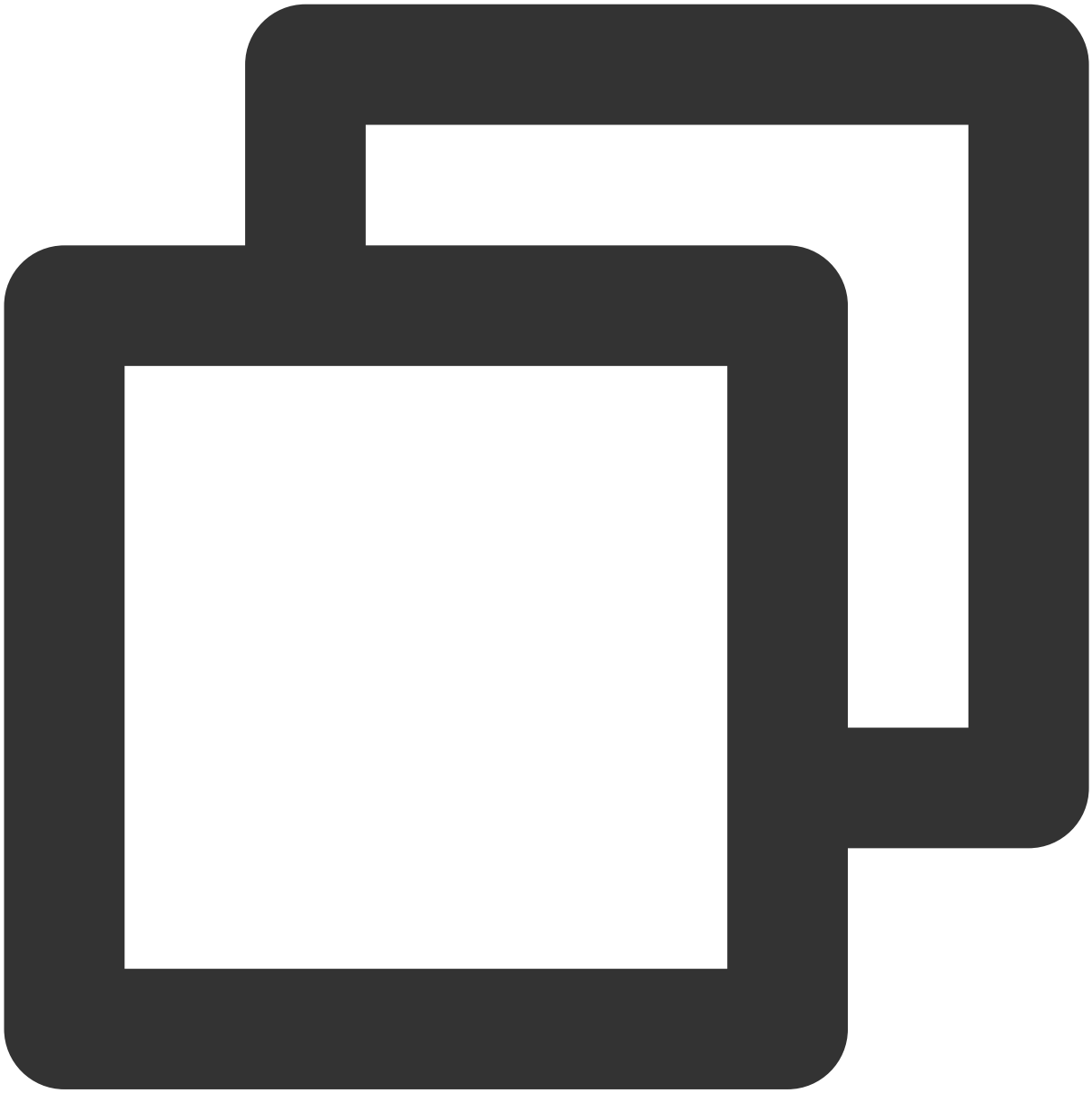
try {
        $imageMogrTemplate = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate
        $imageMogrTemplate->thumbnailByScale(50);// Scale an image to 50% of its or
        $picOperationsTemplate = new \\Qcloud\\Cos\\ImageParamTemplate\\PicOperatio
        $picOperationsTemplate->setIsPicInfo(1);// Set whether to return the input
        $picOperationsTemplate->addRule($imageMogrTemplate, "resultobject");// Set
        $result = $cosClient->ImageProcess(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
        'PicOperations' => $picOperationsTemplate->queryString(),// Generate parame
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes
PicOperations	Json/String	Persistent image processing information	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
    (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Key] => exampleobject
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
            [OriginalInfo] => Array
            (
```

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```
                [Key] => exampleobject
                [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/
                [ETag] => "7037fb6fb4cca43b958a28789605e73d98088720"
                [ImageInfo] => Array
                (
                        [Format] => JPEG
                        [Width] => 600
                        [Height] => 500
                        [Quality] => 90
                        [Ave] => 0x46442e
                        [Orientation] => 0
                    )

            )
            [ProcessResults] => Array
            (
                [Object] => Array
                (
                    [0] => Array(
                        [Key] => resultobject
                        [Location] => examplebucket-1250000000.cos.ap-beijing.myqcl
                        [Format] => JPEG
                        [Width] => 300
                        [Height] => 200
                        [Size] => 30000
                        [Quality] => 90
                        [ETag] => "87c153bc2909aa0ba111ca126b675c510d36b817"
                    )
                )
            )
    )
)
```

Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
OriginalInfo	Array	Input image information	None

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ProcessResults	Array	Image processing result	None

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Blind Watermark

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.

API	Description
Blind watermarking	Adds blind watermark to or extracts blind watermark from local image and uploads it to bucket

Adding Blind Watermark

Adding during upload

The specified watermark image must:

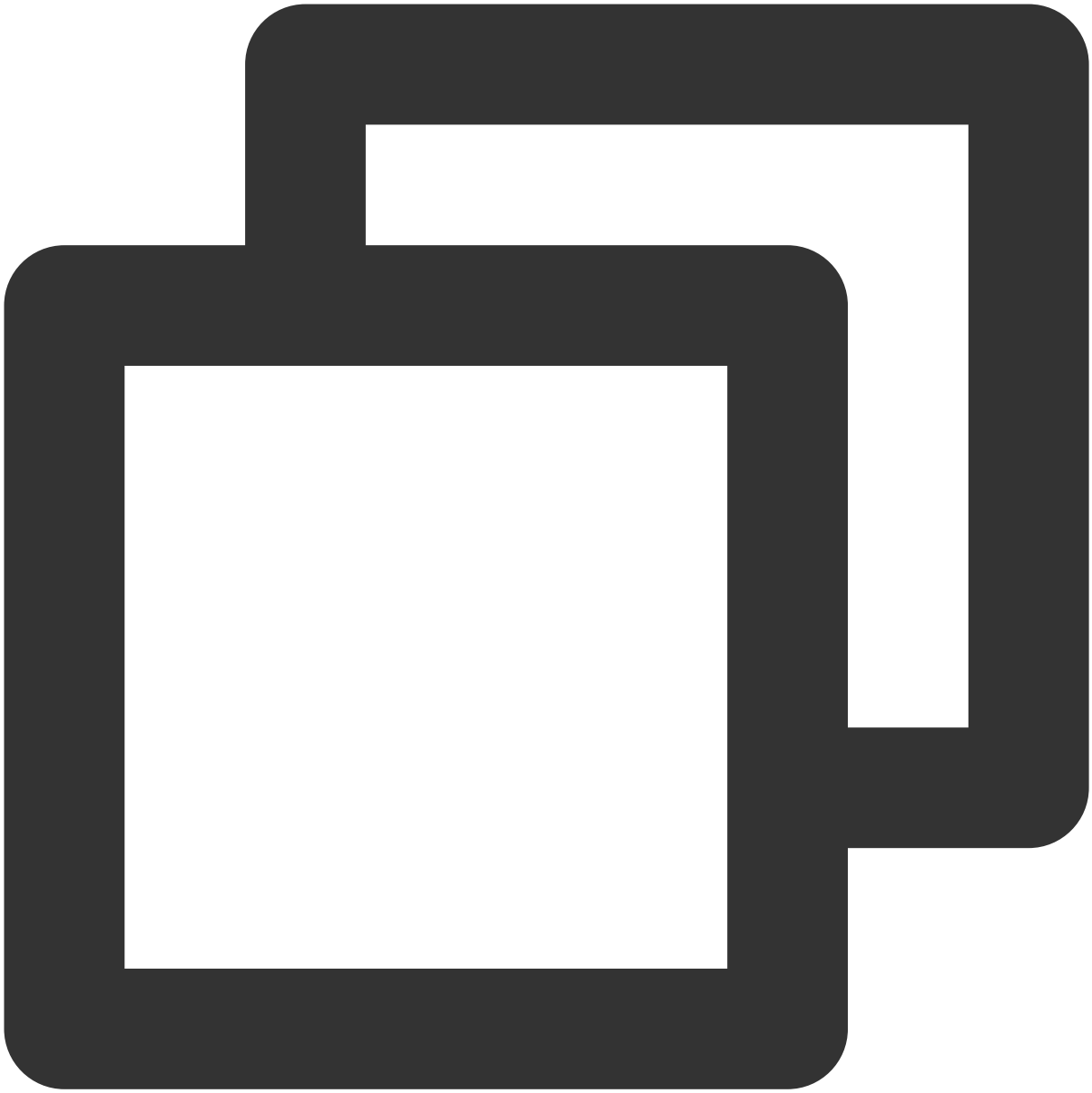
1. Be stored in the same bucket as the input image.

2. Be accessible at a URL containing a COS domain name (CDN acceleration domain names such as `examplebucket-1250000000.file.myqcloud.com/shuiyin_2.png` are not supported). If the image watermark is set to privately readable, the URL must carry a signature.

3. 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.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

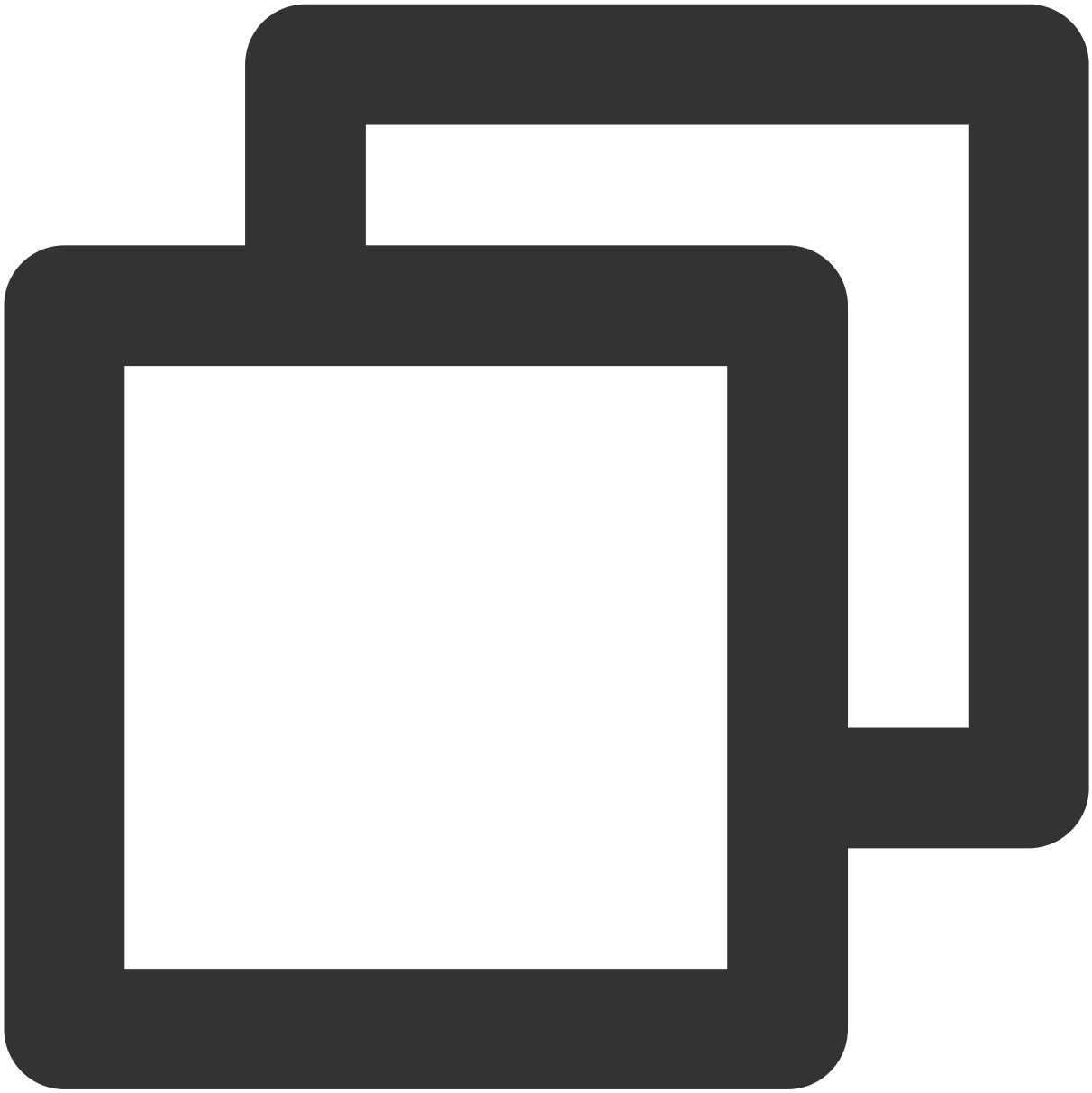
try {
        $blindWatermarkTemplate = new Qcloud\\Cos\\ImageParamTemplate\\BlindWaterma
        $blindWatermarkTemplate->setType(3);// Blind watermark type. Valid values:
        $blindWatermarkTemplate->setImage("imageUrl");// Set the blind watermark im
        $blindWatermarkTemplate->setText("Test");// Set the blind watermark text
        $blindWatermarkTemplate->setLevel(3);// Blind watermark level, which only t
        $picOperationsTemplate = new \\Qcloud\\Cos\\ImageParamTemplate\\PicOperatio
        $picOperationsTemplate->setIsPicInfo(1);// Set whether to return the input
        $picOperationsTemplate->addRule($blindWatermarkTemplate, "resultobject");//
        $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
        'Body' => fopen('path/to/localFile', 'rb'),
        'PicOperations' => $picOperationsTemplate->queryString(),// Generate parame
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes
Body	File/String	Uploaded content	Yes
PicOperations	Json/String	Persistent image processing information	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
    (
            [Body] =>
            [ETag] => "698d51a19d8a121ce581499d7b701668"
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [ContentLength] => 10000
            [Key] => exampleobject
            [Bucket] => examplebucket-1250000000
```

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```
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
            [Data] => Array
            (
                [OriginalInfo] => Array
                (
                    [Key] => exampleobject
                    [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.
                    [ETag] => "7037fb6fb4cca43b958a28789605e73d98088720"
                    [ImageInfo] => Array
                    (
                            [Format] => JPEG
                            [Width] => 600
                            [Height] => 500
                            [Quality] => 90
                            [Ave] => 0x46442e
                            [Orientation] => 0
                     )

                )
                [ProcessResults] => Array
                (
                    [Object] => Array
                    (
                        [0] => Array(
                            [Key] => resultobject
                            [Location] => examplebucket-1250000000.cos.ap-beijing.m
                            [Format] => JPEG
                            [Width] => 300
                            [Height] => 200
                            [Size] => 30000
                            [Quality] => 90
                            [ETag] => "87c153bc2909aa0ba111ca126b675c510d36b817"
                        )
                    )
                )
            )
    )
)
```

Response description

Parameter	Type	Description	Parent Node
Body	File/String	Response body	None
ETag	String	MD5 checksum of the file	None

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RequestId	String	Request ID	None
ContentLength	Int	Length of the response body	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
Data	Array	Image processing result	None

Adding during download

The specified watermark image must:

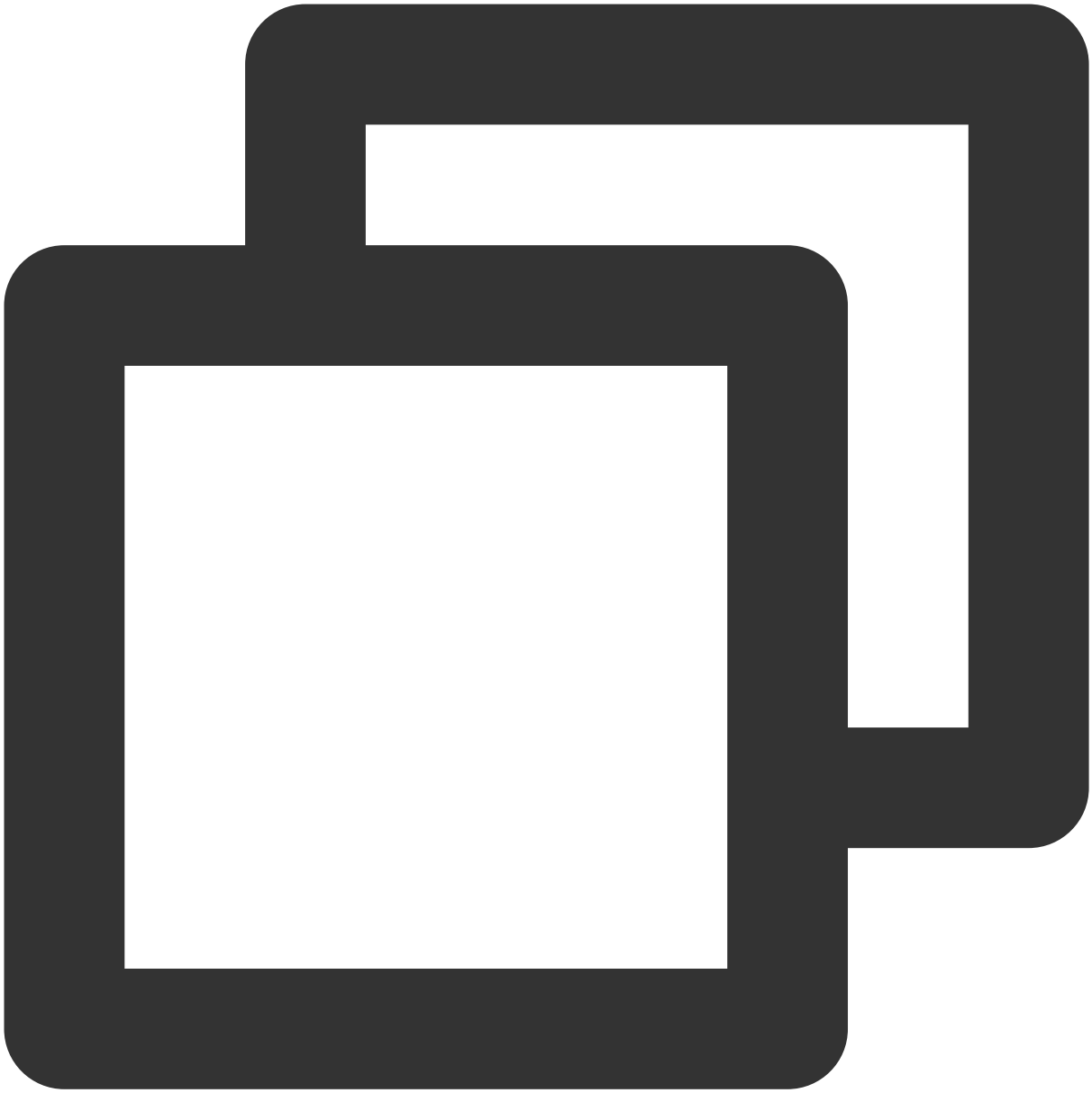
1. Be stored in the same bucket as the input image.

2. Be accessible at a URL containing a COS domain name (CDN acceleration domain names such as `examplebucket-1250000000.file.myqcloud.com/shuiyin_2.png` are not supported). If the image watermark is set to privately readable, the URL must carry a signature.

3. 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.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

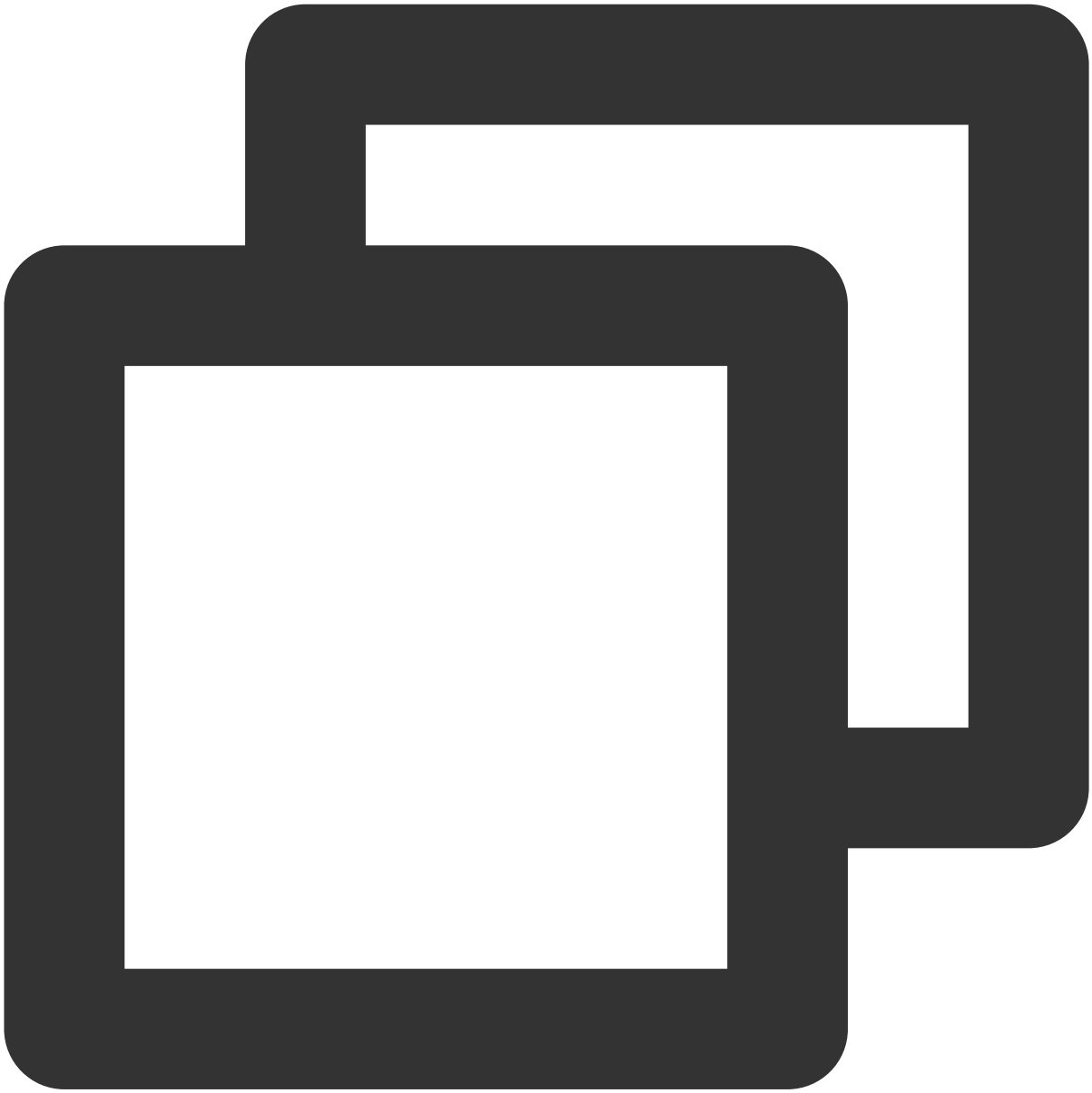
try {
        $blindWatermarkTemplate = new Qcloud\\Cos\\ImageParamTemplate\\BlindWaterma
        $blindWatermarkTemplate->setType(3);// Blind watermark type. Valid values:
        $blindWatermarkTemplate->setImage("imageUrl");// Set the blind watermark im
        $blindWatermarkTemplate->setText("Test");// Set the blind watermark text
        $blindWatermarkTemplate->setLevel(3);// Blind watermark level, which only t
        $result = $cosClient->getObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
        'ImageHandleParam' => $blindWatermarkTemplate->queryString(),// Generate bl
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes
ImageHandleParam	String	Blind watermark parameter	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
        (
            [Body] =>
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [ContentLength] => 100
            [CacheControl] => max-age=2592000
            [ContentType] => image/jpeg
            [Key] => exampleobject
```

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```
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
        )

)
```

Response description

Parameter	Type	Description	Parent Node
Body	File/String	Downloaded content	None
RequestId	String	Request ID	None
CacheControl	String	Cache policy. Sets `Cache-Control` .	None
ContentType	String	Content type. Sets `Content-Type`	None
ContentLength	Int	Length of the response body	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None

Extracting Blind Watermark

The image URL should be entered according to the blind watermark type:

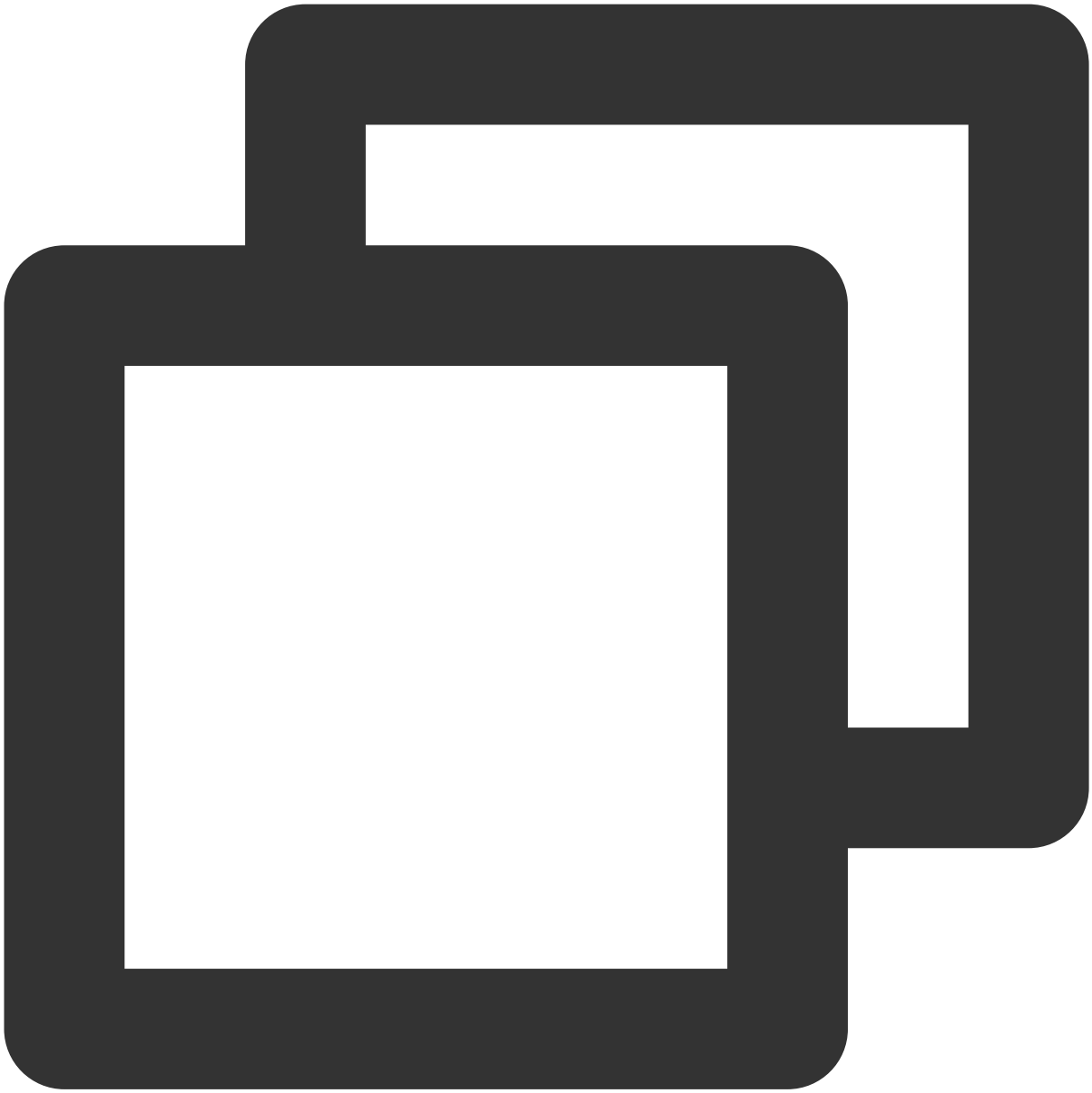
1. For a semi-blind watermark, the blind watermark image URL is required and must be the URL of the input image.
2. For a blind watermark, the blind watermark image URL is required and must be the URL of the watermark image.
3. For a text blind watermark, the blind watermark image URL is invalid and does not need to be entered.

The specified watermark image must:

1. Be stored in the same bucket as the input image.
2. Be accessible at a URL containing a COS domain name (CDN acceleration domain names such as `examplebucket-1250000000.file.myqcloud.com/shuiyin_2.png` are not supported). If the image watermark is set to privately readable, the URL must carry a signature.
3. 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.

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Sample code



```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
```

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```
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

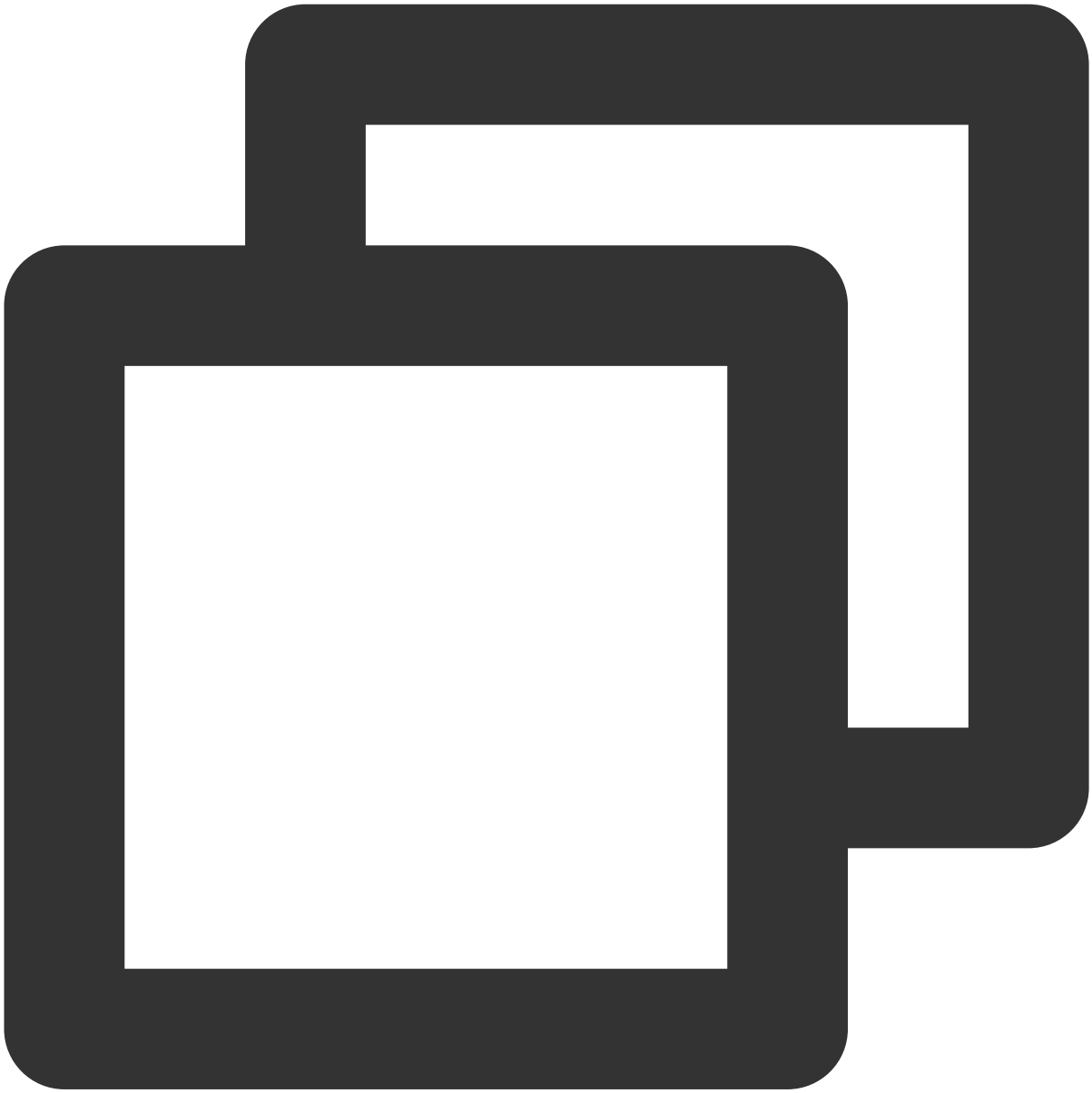
try {
        $blindWatermarkTemplate = new Qcloud\\Cos\\ImageParamTemplate\\BlindWaterma
        $blindWatermarkTemplate->setPick();// Set to extract a blind watermark
        $blindWatermarkTemplate->setType(3);// Blind watermark type. Valid values:
        $blindWatermarkTemplate->setImage("imageUrl");// Set the blind watermark im
        $blindWatermarkTemplate->setText("Test");// Set the blind watermark text
        $blindWatermarkTemplate->setLevel(3);// Blind watermark level, which only t
        $picOperationsTemplate = new \\Qcloud\\Cos\\ImageParamTemplate\\PicOperatio
        $picOperationsTemplate->setIsPicInfo(1);// Set whether to return the input
        $picOperationsTemplate->addRule($blindWatermarkTemplate, "resultobject");//
        $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
        'Body' => fopen('path/to/localFile', 'rb'),
        'PicOperations' => $picOperationsTemplate->queryString(),// Generate parame
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes
Body	File/String	Uploaded content	Yes
PicOperations	Json/String	Persistent image processing information	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
    (
            [Body] =>
            [ETag] => "698d51a19d8a121ce581499d7b701668"
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [ContentLength] => 10000
            [Key] => exampleobject
            [Bucket] => examplebucket-1250000000
```

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```
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
            [Data] => Array
            (
                [OriginalInfo] => Array
                (
                    [Key] => exampleobject
                    [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.
                    [ETag] => "7037fb6fb4cca43b958a28789605e73d98088720"
                    [ImageInfo] => Array
                    (
                            [Format] => JPEG
                            [Width] => 600
                            [Height] => 500
                            [Quality] => 90
                            [Ave] => 0x46442e
                            [Orientation] => 0
                     )

                )
                [ProcessResults] => Array
                (
                    [Object] => Array
                    (
                        [0] => Array(
                            [Key] => resultobject
                            [Location] => examplebucket-1250000000.cos.ap-beijing.m
                            [Format] => JPEG
                            [Width] => 300
                            [Height] => 200
                            [Size] => 30000
                            [Quality] => 90
                            [WatermarkStatus] => 90
                            [ETag] => "87c153bc2909aa0ba111ca126b675c510d36b817"
                        )
                    )
                )
            )
    )
)
```

Response description

Parameter	Type	Description	Parent Node
Body	File/String	Response body	None

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ETag	String	MD5 checksum of the file	None
RequestId	String	Request ID	None
ContentLength	Int	Length of the response body	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
Data	Array	Image processing result	None

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Image Advanced Compression

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for image advanced compression.

API	Description
Image advanced compression	Allows you to easily convert images into formats that provide a high compression ratio, such as TPG and HEIF. This effectively reduces the transfer time, loading time, and the use of bandwidth and traffic.

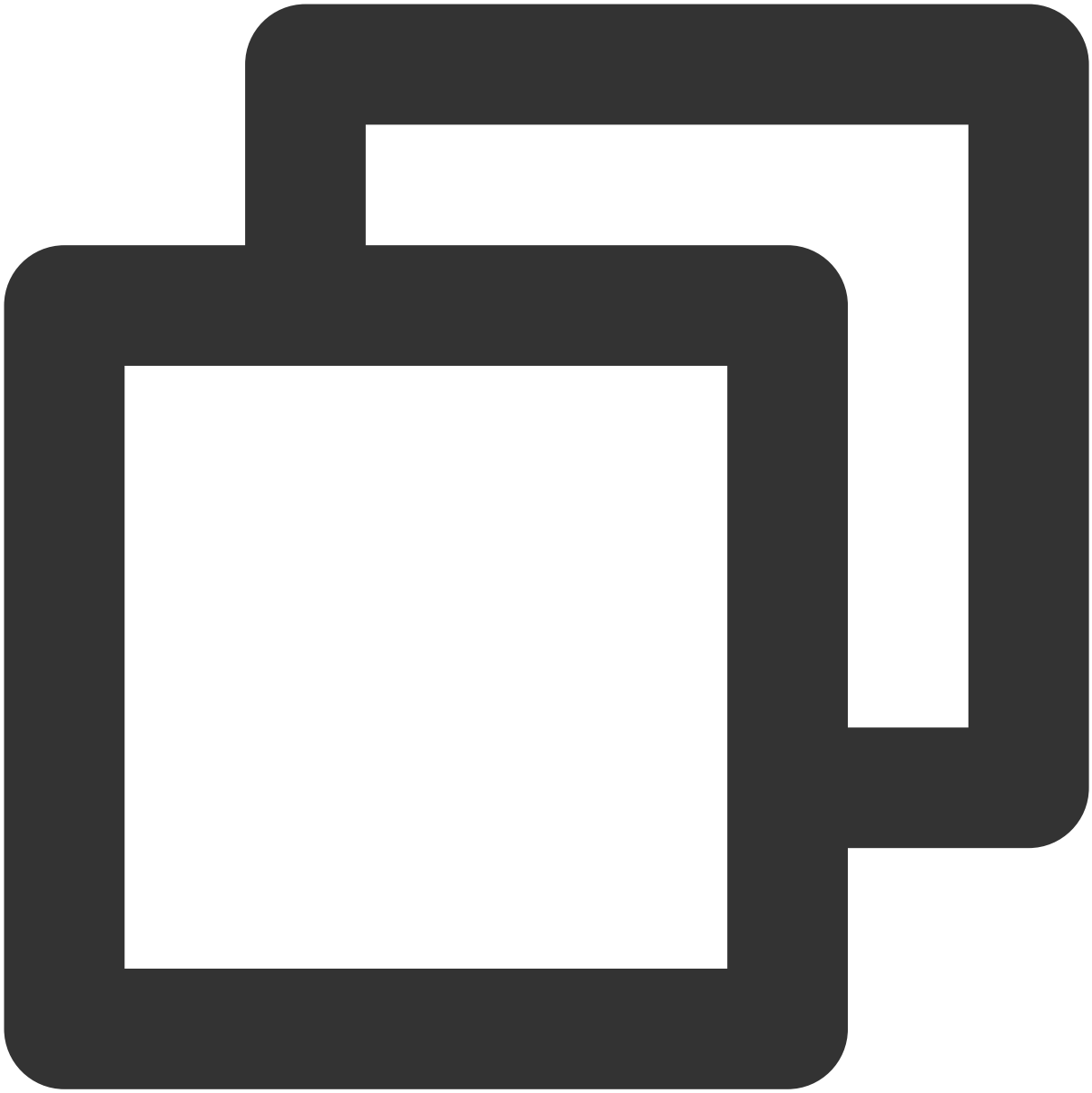
Image Advanced Compression

Feature description

CI uses the `imageMogr2` API to provide the image advanced compression feature.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

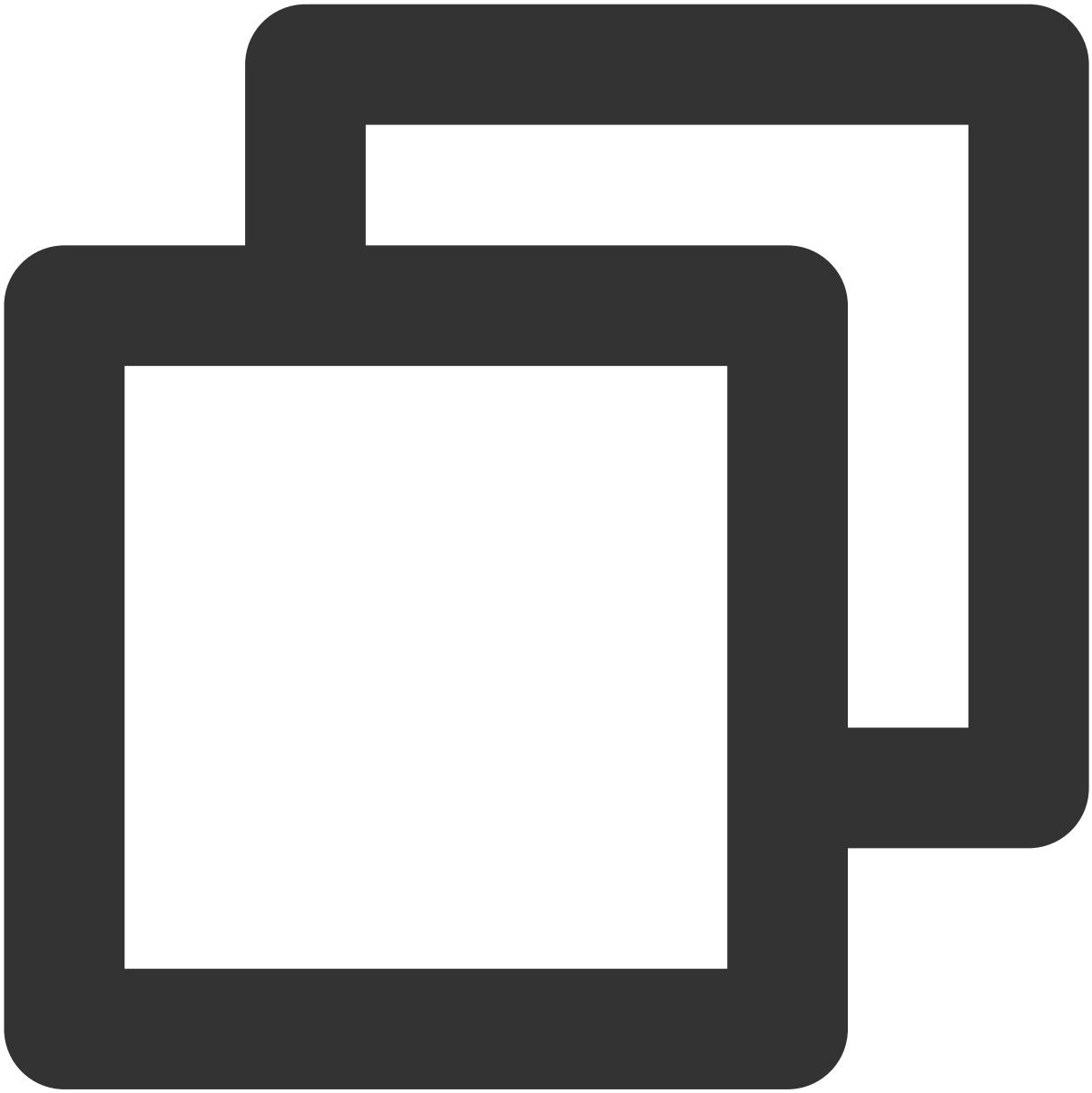
try {
        $imageMogrTemplate = new Qcloud\\Cos\\ImageParamTemplate\\ImageMogrTemplate
        $imageMogrTemplate->format('tpg');// Convert the input image to TPG format
        $imageMogrTemplate->format('heif');// Convert the input image to HEIF forma
        $result = $cosClient->getObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
        'ImageHandleParam' => $imageMogrTemplate->queryString(),// Generate basic i
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes
ImageHandleParam	String	CI image processing parameters, such as `imageMogr2/format/tpg`.	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
        (
            [Body] =>
            [ETag] => "698d51a19d8a121ce581499d7b701668"
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [ContentLength] => 100
            [ContentType] => image/jpeg
            [Key] => exampleobject
```

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```
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
        )

)
```

Response description

Parameter	Type	Description	Parent Node
Body	File/String	Downloaded content	None
ETag	String	MD5 checksum of the file	None
ContentLength	Int	Length of the response body	None
ContentType	String	Content type. Sets `Content-Type`	None
RequestId	String	Request ID	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None

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Guetzli Compression

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for Guetzli compression.

API	Description
Enabling Guetzli compression	Enables the Guetzli compression feature for a bucket.
Querying Guetzli status	Queries whether the Guetzli compression feature is enabled.
Disabling Guetzli compression	Disables the Guetzli compression feature.

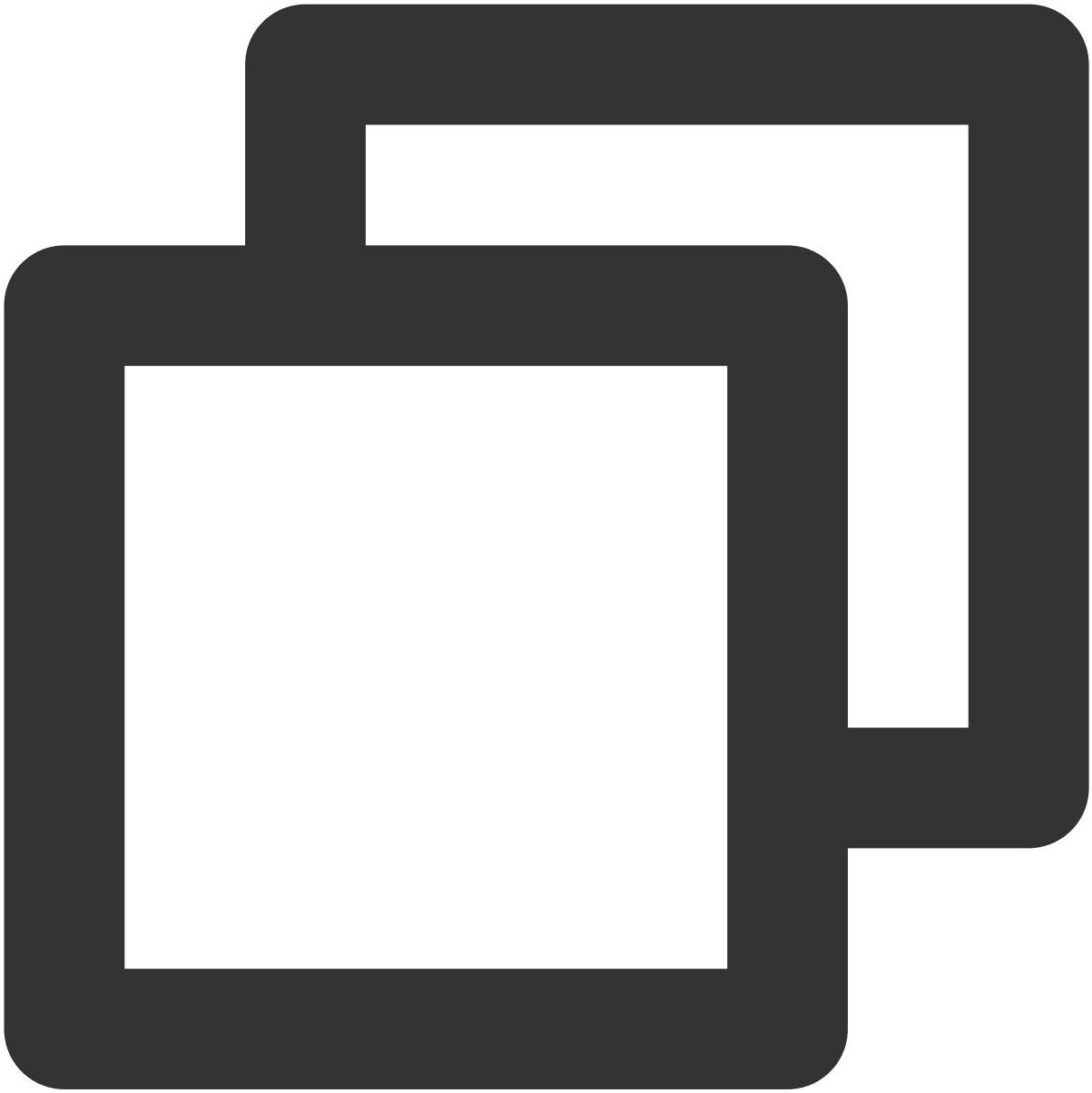
Enabling Guetzli Compression

Feature description

This API is used to enable the Guetzli compression feature for a bucket.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

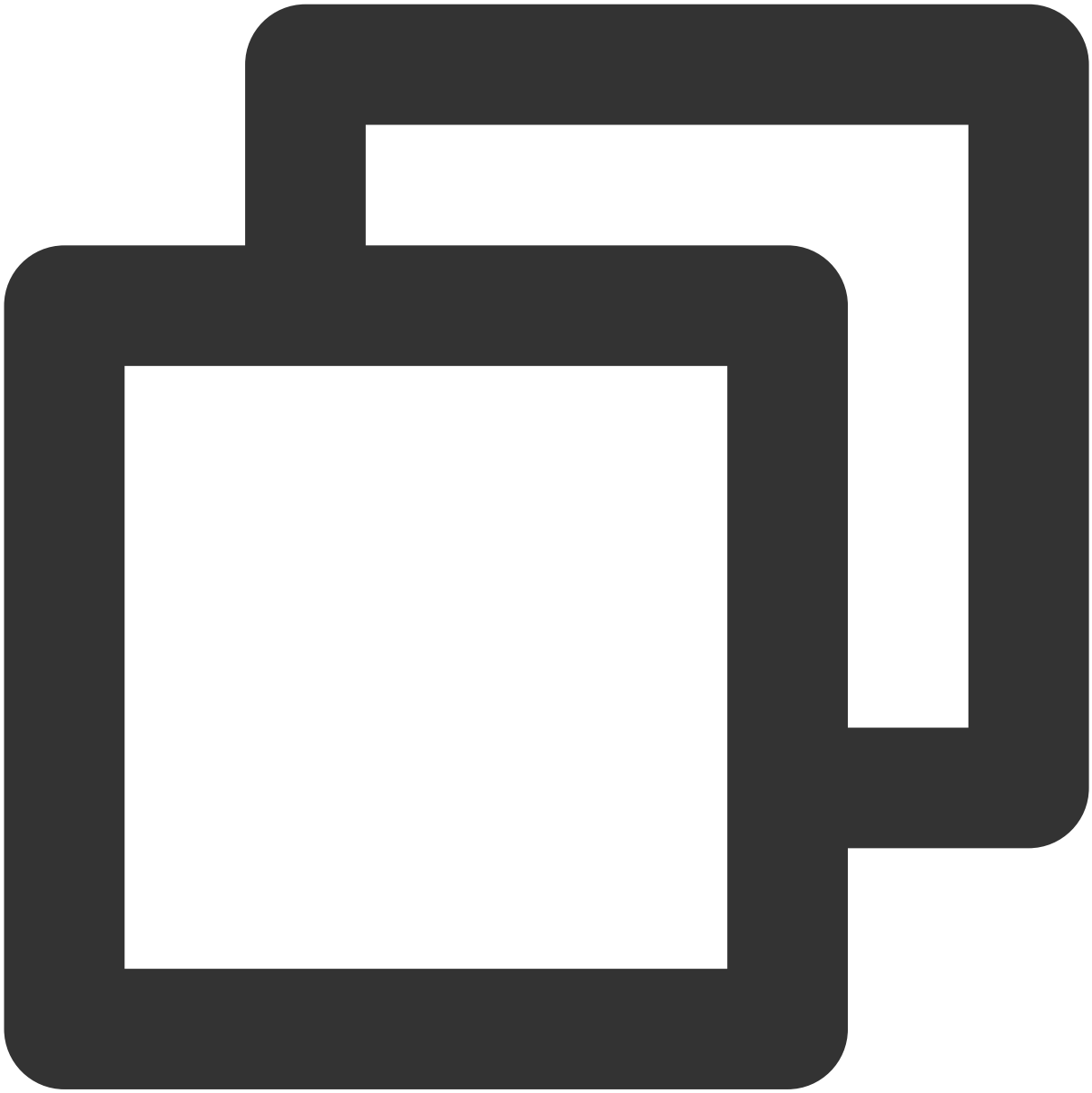
try {
        $result = $cosClient->PutBucketGuetzli(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
        (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.pic.ap-beijing.myqcloud.com/
        )
)
```

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Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None

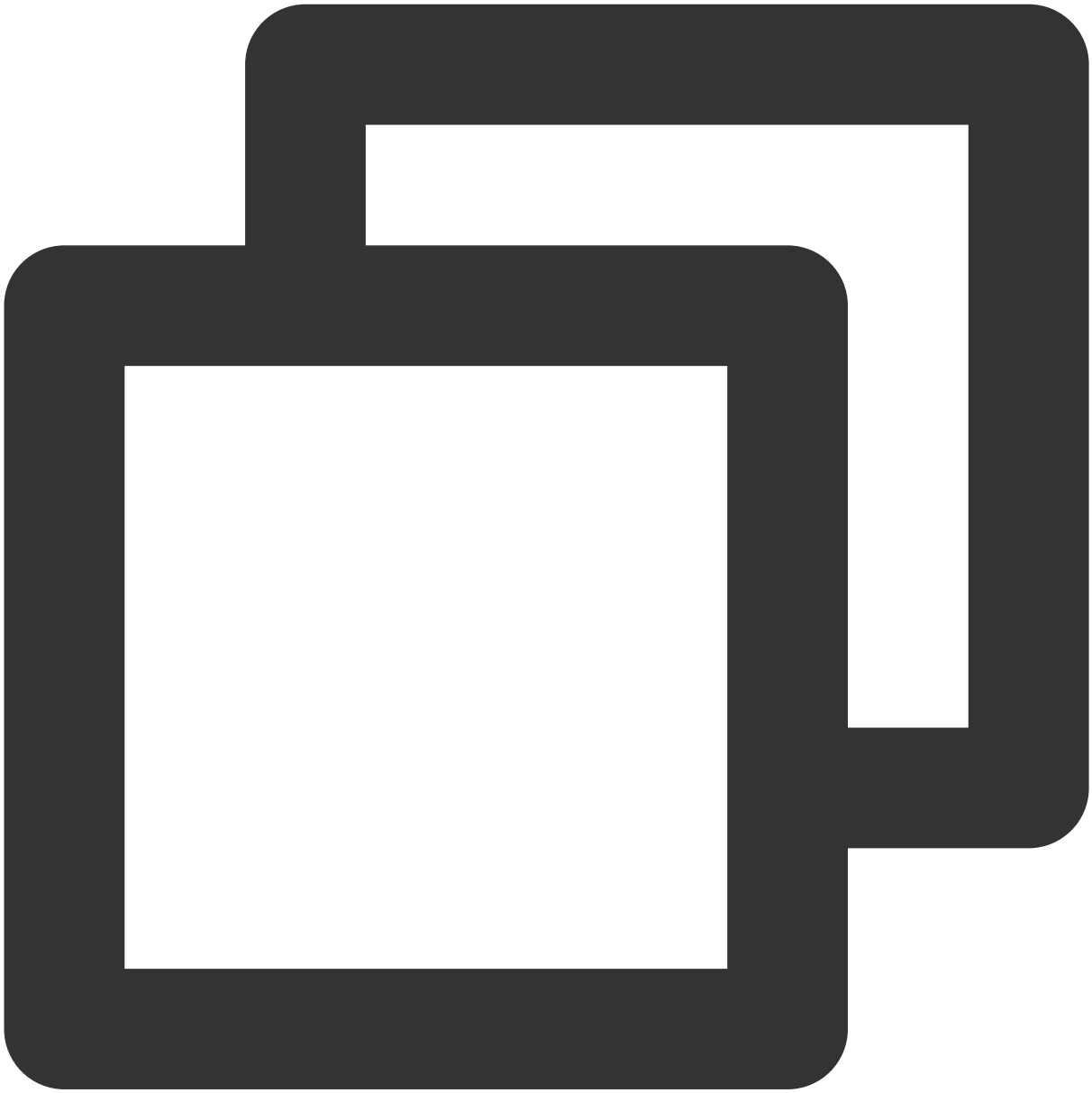
Querying Guetzli Status

Feature description

This API is used to query whether the Guetzli compression feature is enabled.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

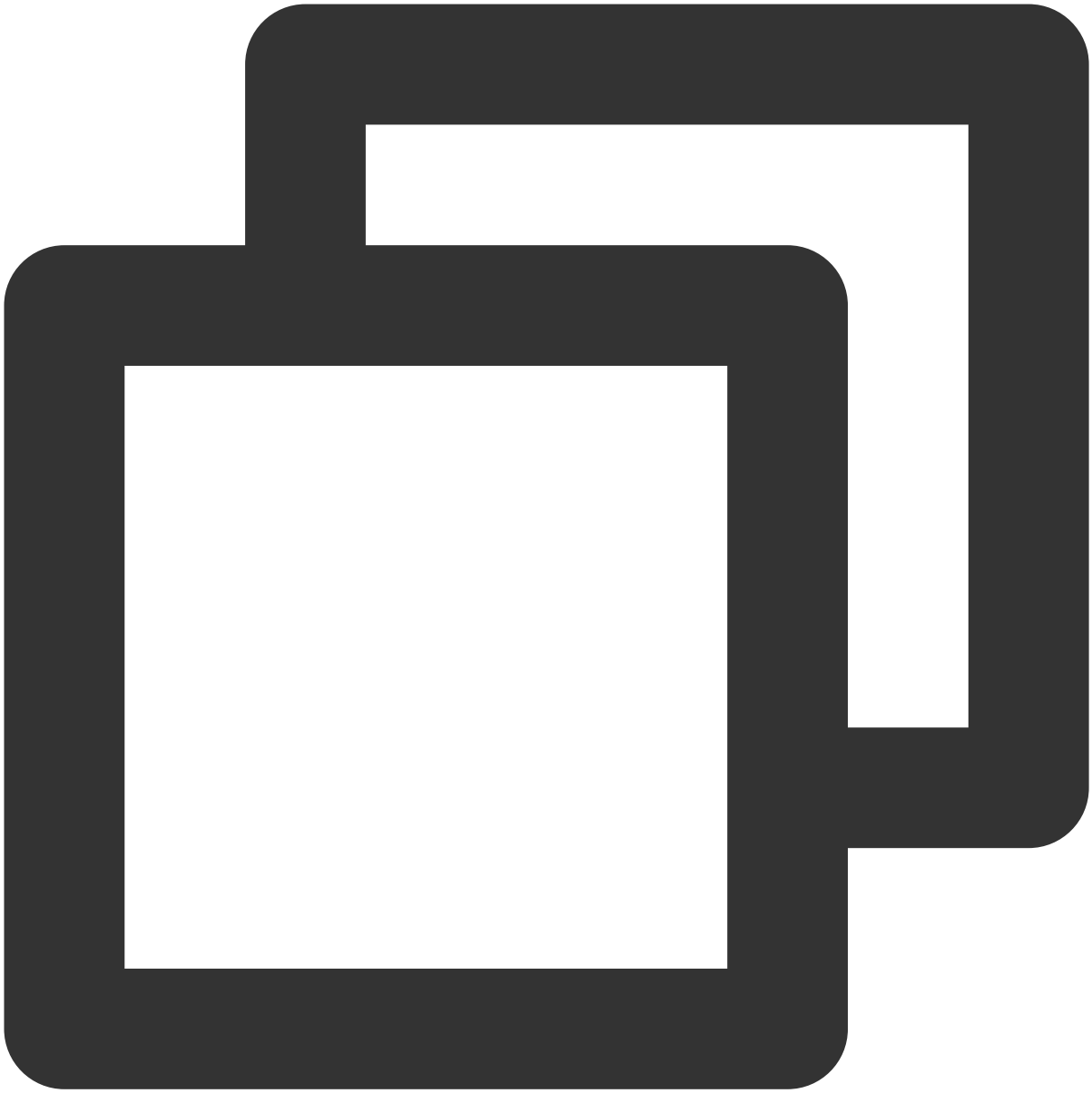
try {
        $result = $cosClient->GetBucketGuetzli(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
        (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.pic.ap-beijing.myqcloud.com/
            [GuetzliStatus] => on
        )
)
```

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Response description

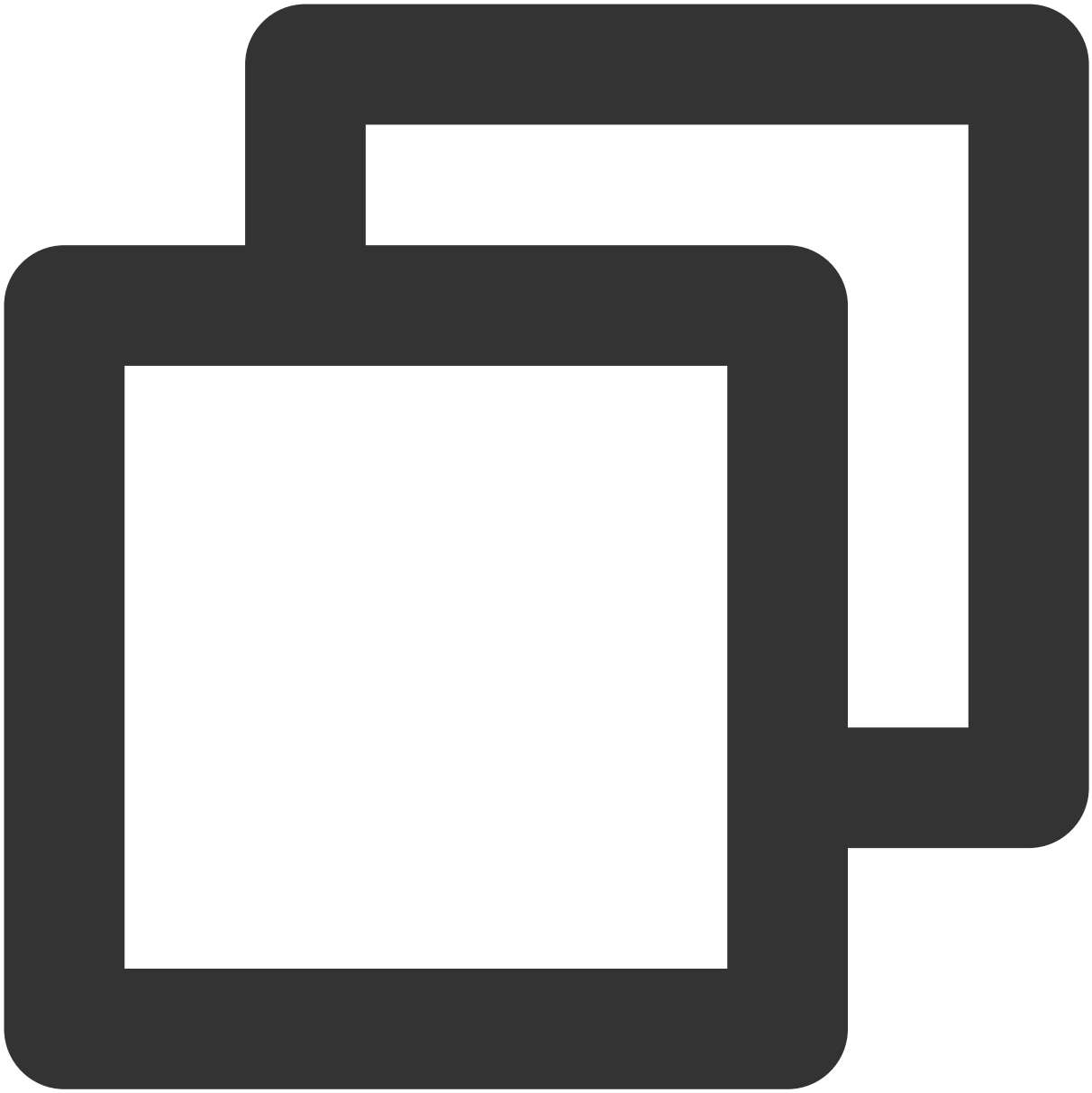
Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
GuetzliStatus	String	Guetzli status. Valid values: on, off.	None

Disabling Guetzli Compression

This API is used to disable the Guetzli compression feature.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

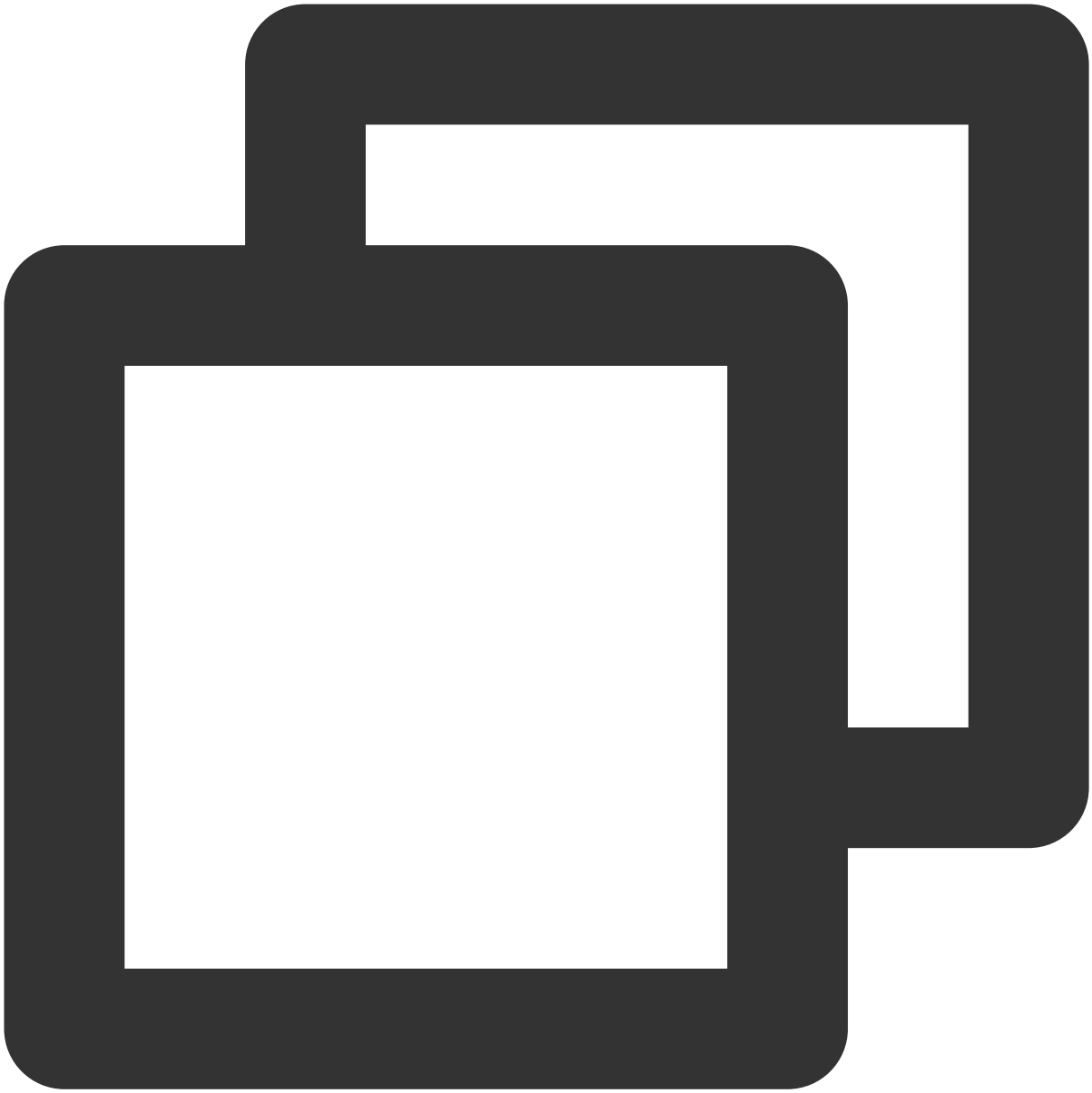
try {
        $result = $cosClient->DeleteBucketGuetzli(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
        (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.pic.ap-beijing.myqcloud.com/
        )
)
```

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Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None

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Media Processing
Media Bucket APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for querying the media processing activation status.

API	Description
Querying media processing activation status	Queries media processing activation status

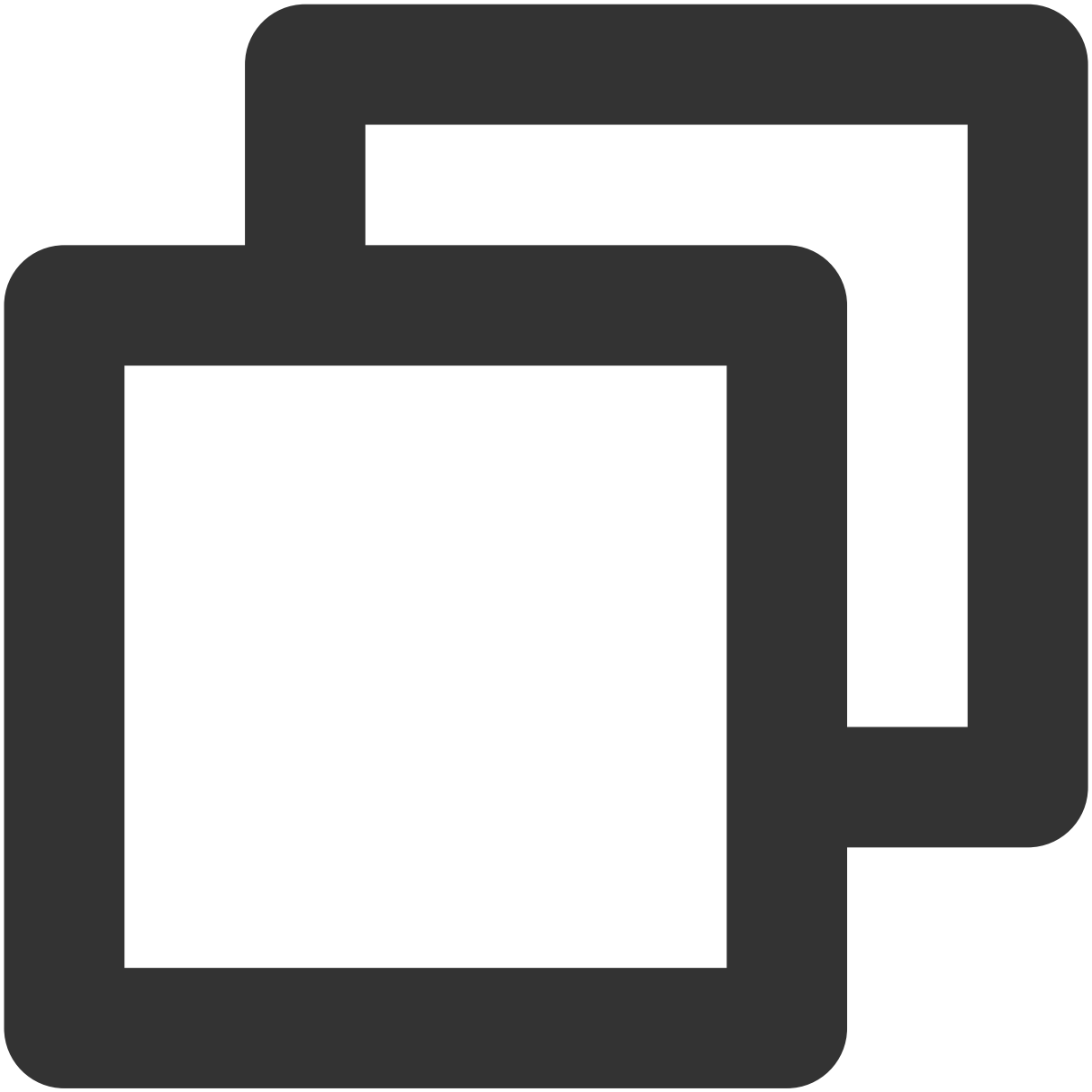
Querying Media Processing Activation Status

Feature description

This API is used to query buckets with media processing enabled.

Method prototype

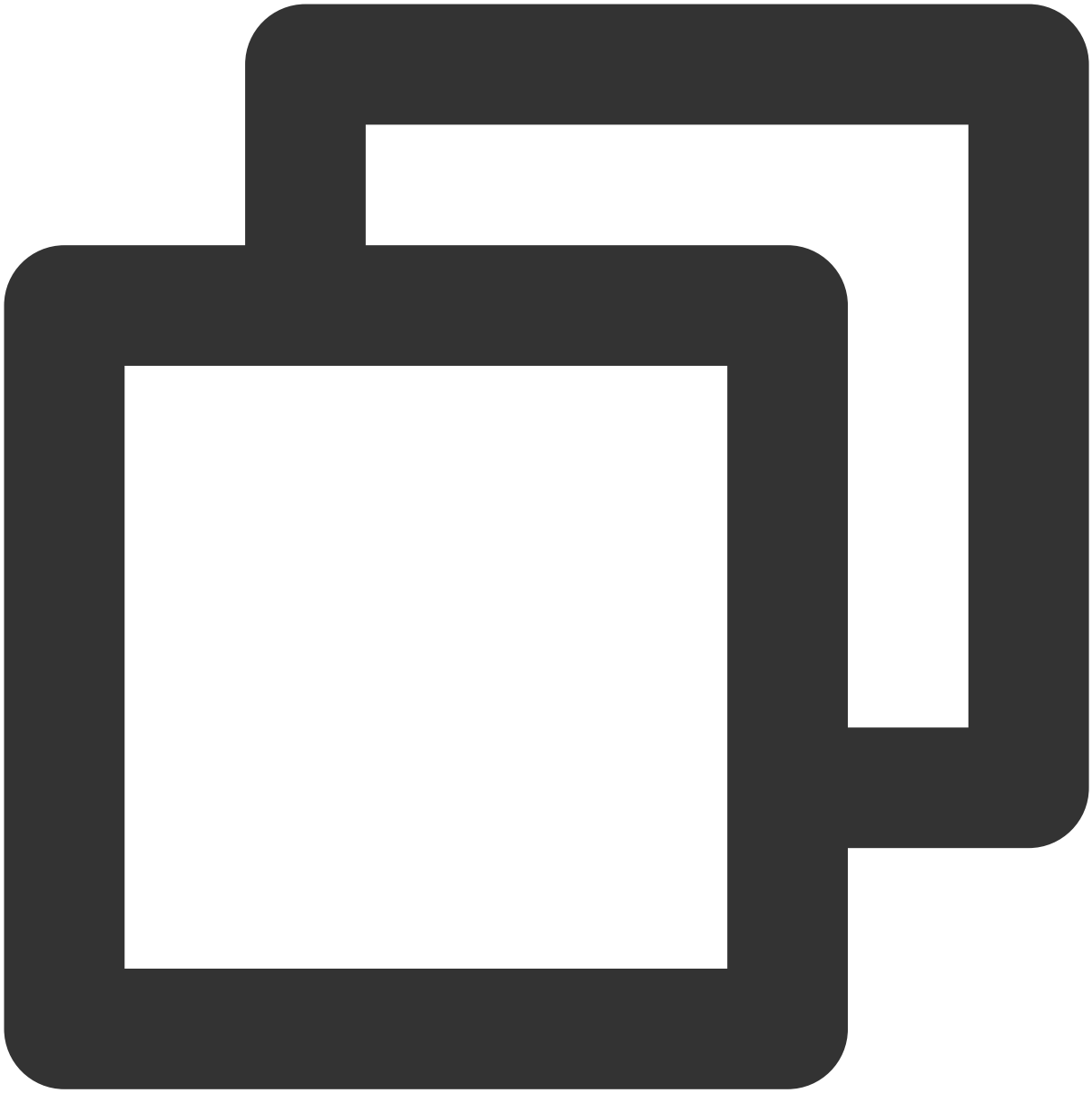
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```
public Guzzle\\Service\\Resource\\Model describeMediaBuckets(array $args = array())
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

try {
    $result = $cosClient->describeMediaBuckets(array(
        'Regions' => '', // Optional region information, such as `ap-shanghai` and
        'BucketNames' => '', // Optional bucket name. To specify multiple bucket na
        'BucketName' => '', // Optional bucket name prefix for prefix search
        'PageNumber' => 1, // Optional page number
        'PageSize' => 20, // Optional number of entries per page
    ));
    // Request successful
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

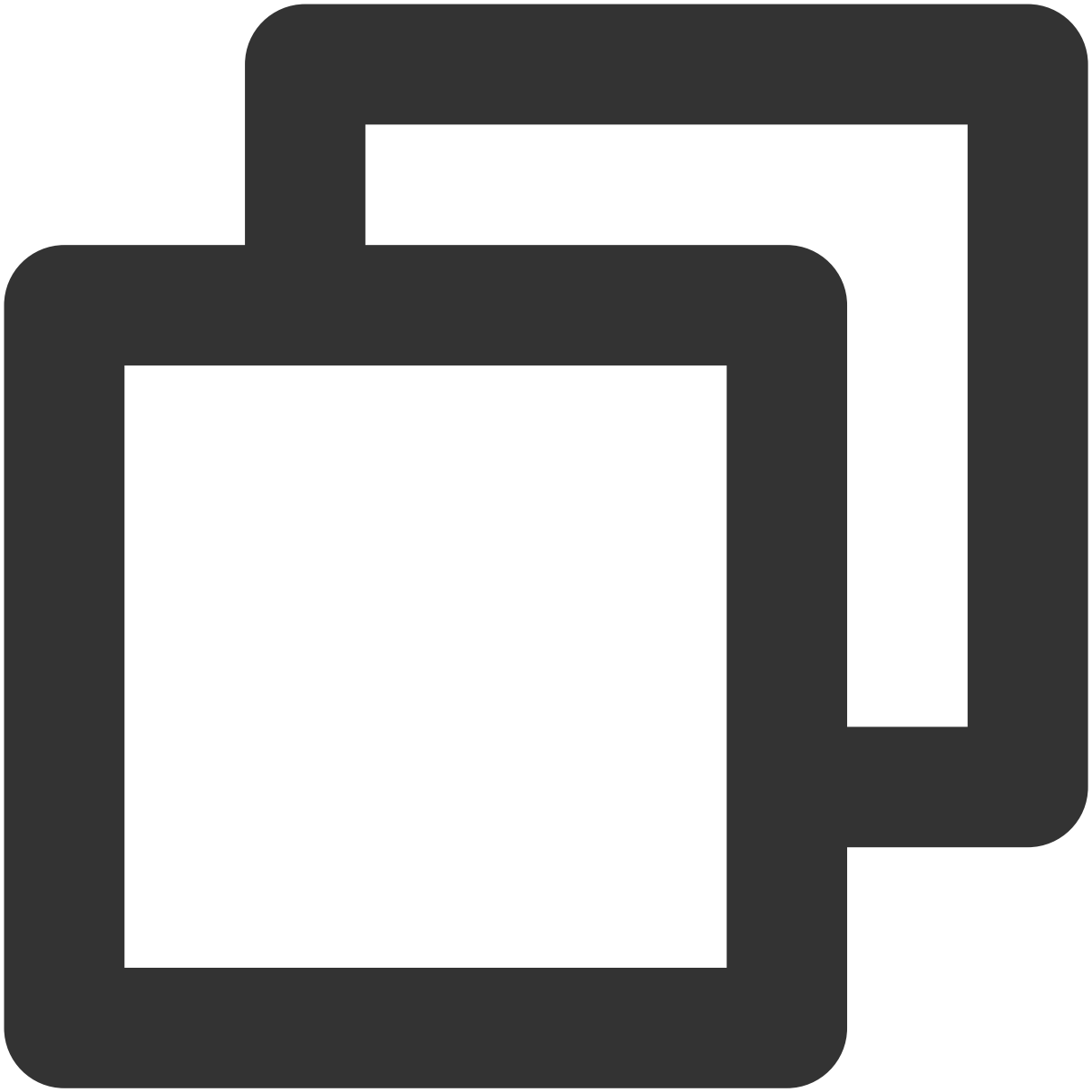
Parameter description

`Request` has the following sub-nodes:

Name	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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjI2MTE5OTlfNzgSxDxIHF0ZF8xZjk0MmQ=
    [ContentType] => application/xml
    [ContentLength] => 4744
    [TotalCount] => 51
    [PageNumber] => 1
    [PageSize] => 5
    [MediaBucketList] => Array
        (
            [0] => Array
```

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```
                (
                    [BucketId] => examplebucket-1250000000
                    [Name] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [CreateTime] => 2022-04-07T22:06:57+0800
                )

            [1] => Array
                (
                    [BucketId] => examplebucket-1250000000
                    [Name] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [CreateTime] => 2022-04-07T22:06:57+0800
                )

            [2] => Array
                (
                    [BucketId] => examplebucket-1250000000
                    [Name] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [CreateTime] => 2022-04-07T22:06:57+0800
                )

            [3] => Array
                (
                    [BucketId] => examplebucket-1250000000
                    [Name] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [CreateTime] => 2022-04-07T22:06:57+0800
                )

            [4] => Array
                (
                    [BucketId] => examplebucket-1250000000
                    [Name] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [CreateTime] => 2022-04-07T22:06:57+0800
                )

        )

    [Location] => ci.ap-guangzhou.myqcloud.com/mediabucket
)
```

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Media Information APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides code samples for getting media file information.

Note:

COS PHP SDK v2.3.2 or later is required. Earlier versions may contain bugs and need to be upgraded to the latest version when used.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

Querying File Information

Feature description

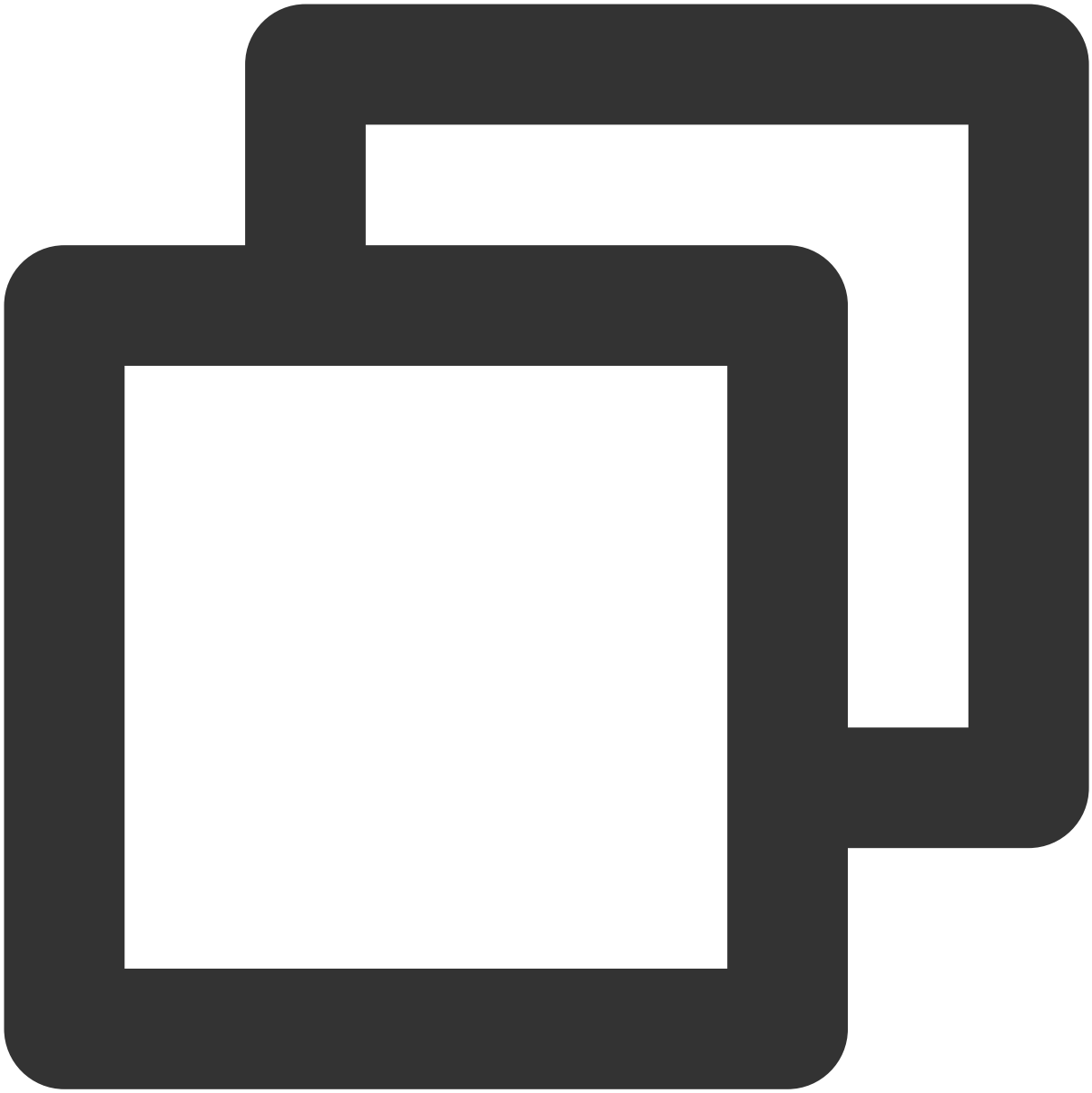
This API is used to query the information of a media file.

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

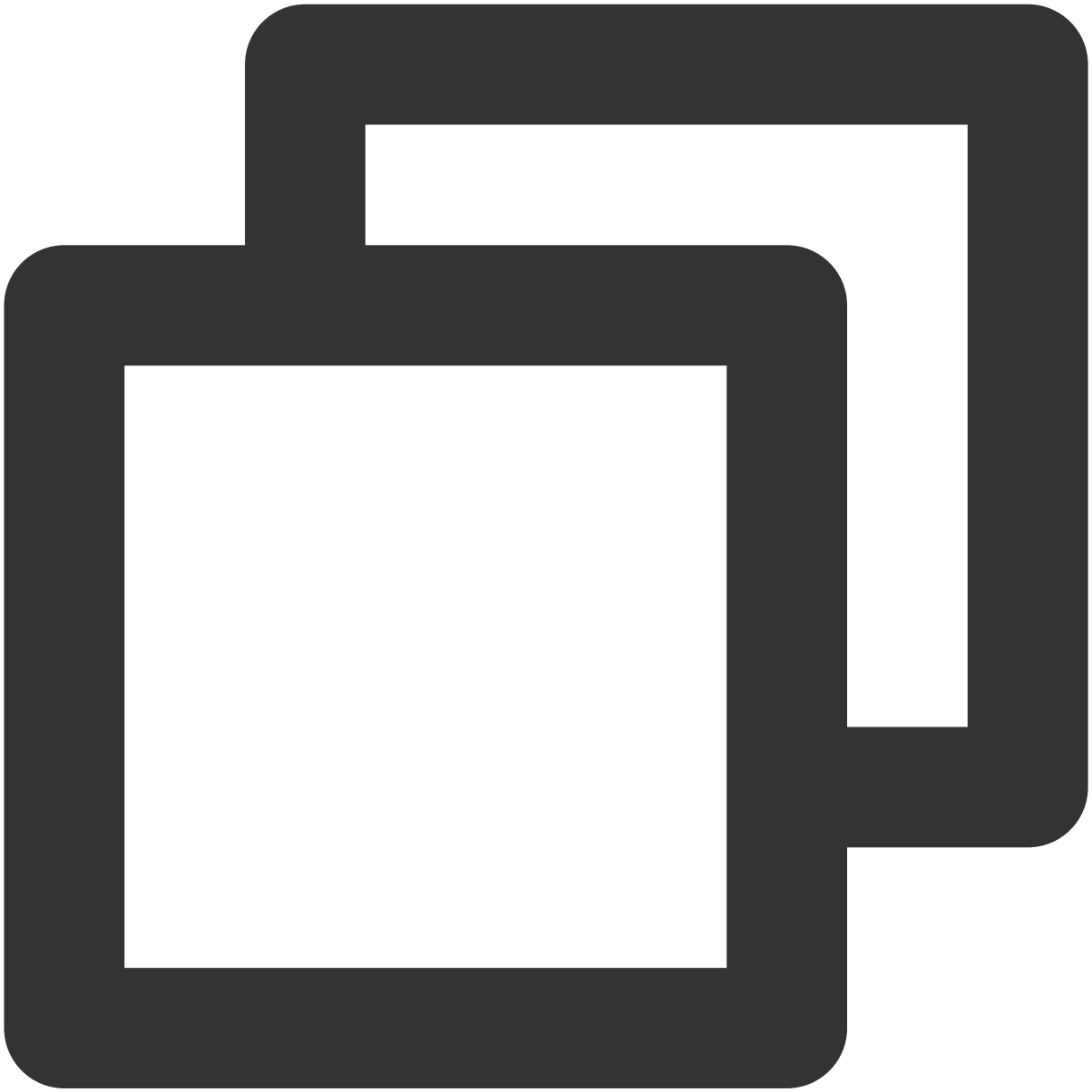
try {
    $result = $cosClient->GetMediaInfo(
        array(
            'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of
            'Key' => 'exampleobject', // Media file object path, such as `folder/mo
            'ci-process' => 'videoinfo' // Operation type, which is fixed at `video
        )
    );
    // Request successful
    echo($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Key	Object key (object name), which is the unique identifier of the object (a media file here) in the bucket. For more information, see Object Overview.	String	Yes
ci-process	Operation type, which is fixed at `videoinfo` .	String	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjE0NTkxMWNfYTkyZTJjMGJfNTgyZF84ZDY2NWY=
    [ContentType] => application/xml
    [ContentLength] => 1787
    [MediaInfo] => Array
        (
            [Stream] => Array
                (
                    [Audio] => Array
                        (
```

```
                [Bitrate] => 383.727000
                [Channel] => 6
                [ChannelLayout] => 5.1
                [CodecLongName] => AAC (Advanced Audio Coding)
                [CodecName] => aac
                [CodecTag] => 0x6134706d
                [CodecTagString] => mp4a
                [CodecTimeBase] => 1/48000
                [Duration] => 62.314667
                [Index] => 1
                [Language] => und
                [SampleFmt] => fltp
                [SampleRate] => 48000
                [StartTime] => 0.000000
                [Timebase] => 1/48000
            )

        [Subtitle] => Array
            (
            )

        [Video] => Array
            (
                [CodecTagString] => avc1
                [Rotation] => 0.000000
                [Index] => 0
                [CodecName] => h264
                [CodecLongName] => H.264 / AVC / MPEG-4 AVC / MPEG-4 pa
                [CodecTimeBase] => 1/12800
                [CodecTag] => 0x31637661
                [Profile] => Main
                [Height] => 720
                [Width] => 1280
                [HasBFrame] => 0
                [RefFrames] => 1
                [Sar] => 1:1
                [Dar] => 16:9
                [PixFormat] => yuv420p
                [Level] => 31
                [Fps] => 25.500000
                [AvgFps] => 25/1
                [Timebase] => 1/12800
                [StartTime] => 0.000000
                [Duration] => 62.280000
                [Bitrate] => 959.963000
                [NumFrames] => 1557
                [Language] => und
```

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```
                        )

                )

            [Format] => Array
                (
                    [NumStream] => 2
                    [NumProgram] => 0
                    [FormatName] => mov,mp4,m4a,3gp,3g2,mj2
                    [FormatLongName] => QuickTime / MOV
                    [StartTime] => 0.000000
                    [Duration] => 62.315000
                    [Bitrate] => 1347.820000
                    [Size] => 10498677
                )

        )

    [Key] => exampleobject
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/exampleobj
)
```

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Media Screenshot APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides code samples for screencapturing a media file at some time point.

Note:

COS PHP SDK v2.3.2 or later is required. Earlier versions may contain bugs and need to be upgraded to the latest version when used.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

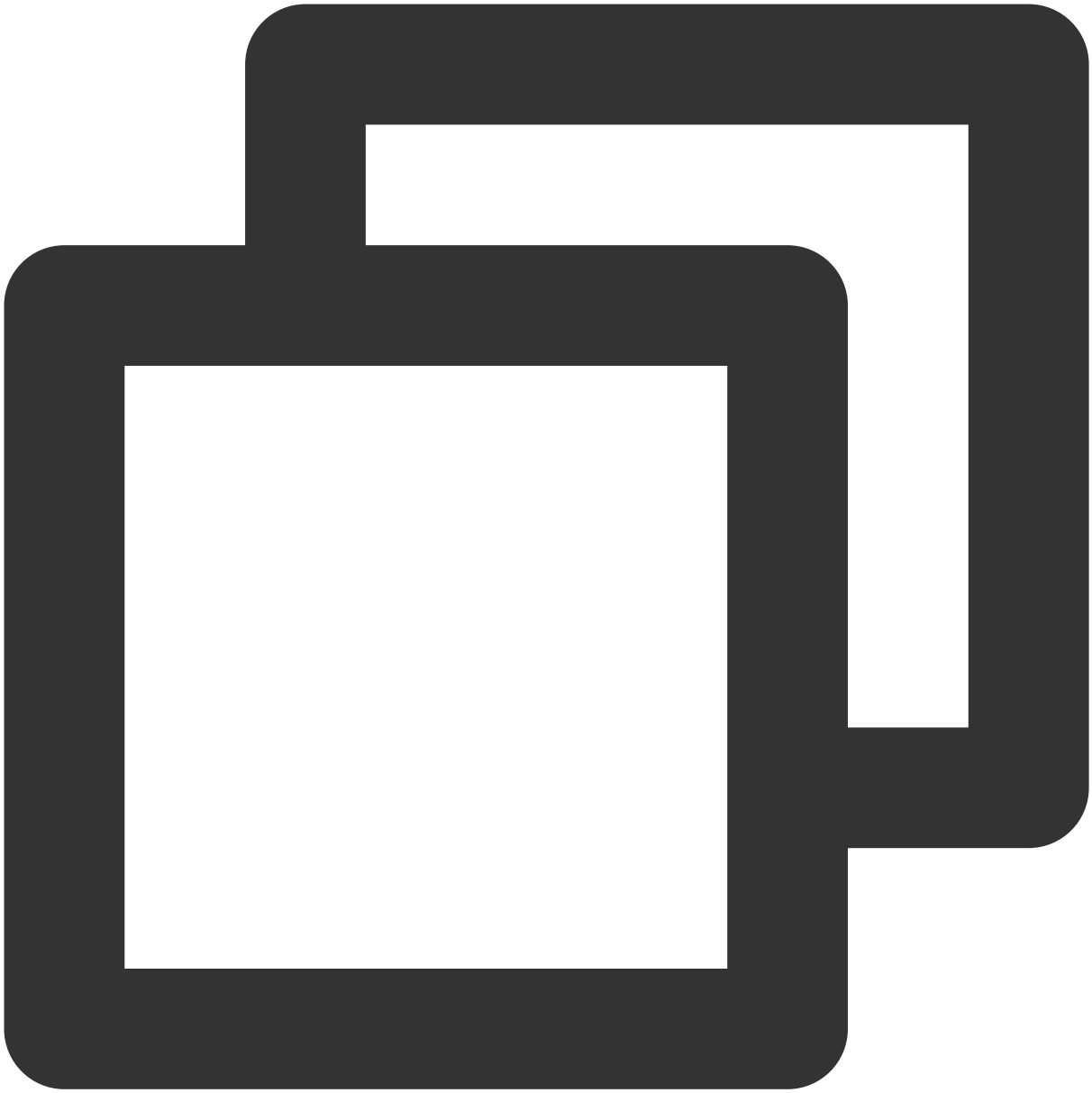
Querying Screenshot

Feature description

This API is used to query the screenshot of a media file at some time point.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

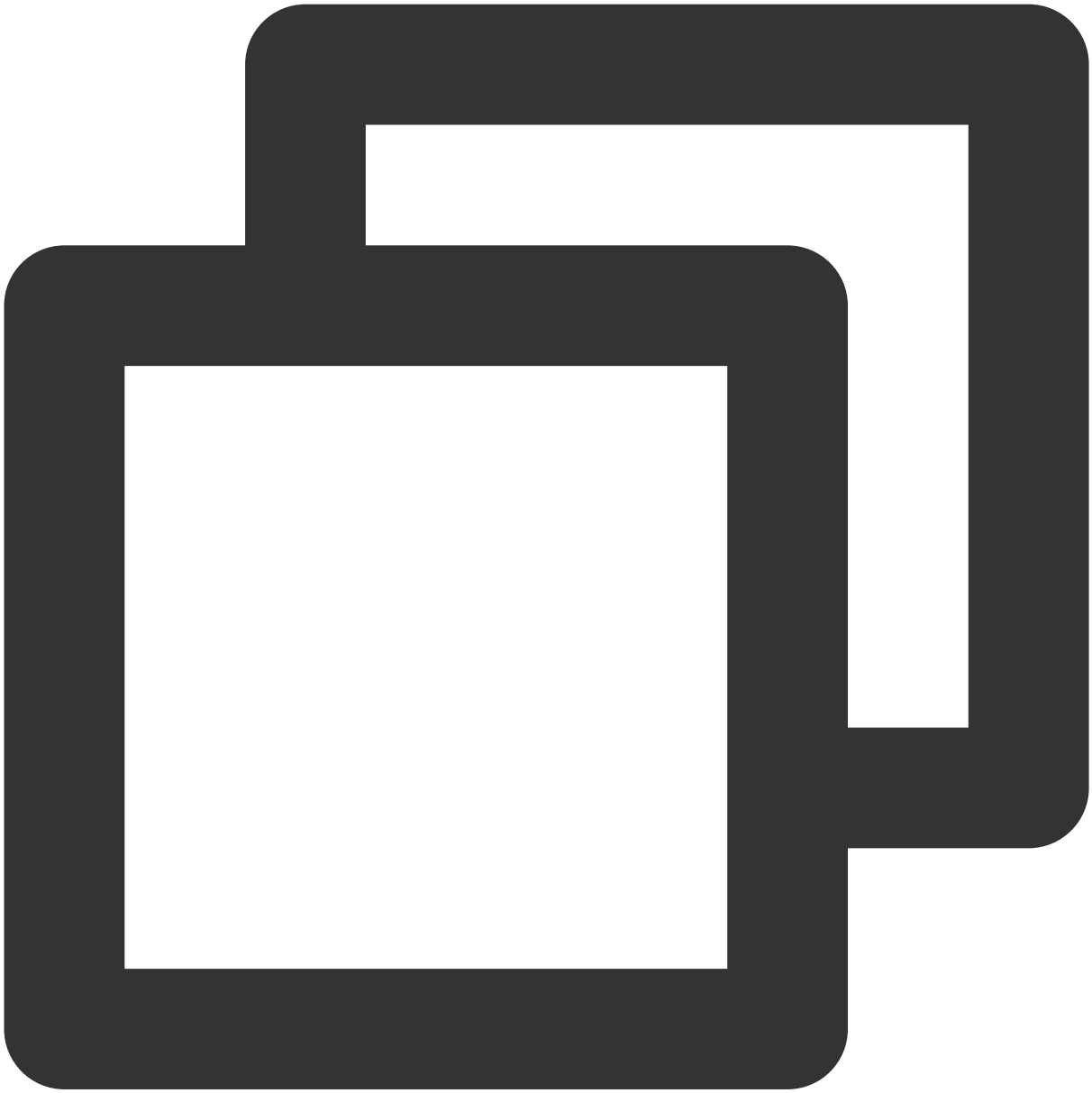
$time = 3.14; // Video frame capturing time point
try {
    $result = $cosClient->getSnapshot(
        array(
            'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of
            'Key' => 'exampleobject', // Media file object path, such as `folder/mo
            'ci-process' => 'snapshot', // Operation type, which is fixed at `snaps
            'Time' => $time, // Video frame capturing time point
            'SaveAs' => '/data/test.jpg', // Local path to save the screenshot
        )
    );
    // Request successful
    echo($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Key	Object key (object name), which is the unique identifier of the object (a media file here) in the bucket. For more information, see Object Overview.	String	Yes
ci-process	Operation type, which is fixed at `snapshot` .	String	Yes
Time	Video frame capturing time point.	float	Yes
SaveAs	Local path to save the screenshot.	String	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #91
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                    (
                    )

            )

        [ContentLength] => 153613
        [ContentType] => image/jpeg
        [RequestId] => NjE0NThmNGNfNWIyZjJjMGJfNTE1MV84YmJlODI=
        [Key] => exampleobject
        [Bucket] => examplebucket-1250000000
        [Location] => examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/exampleobj
)
```

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Private M3U8 APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for the private M3U8 API.

API	Description
GetPrivateM3U8	Gets the download authorization for M3U8 and TS resources (requests are forwarded to CI by COS).

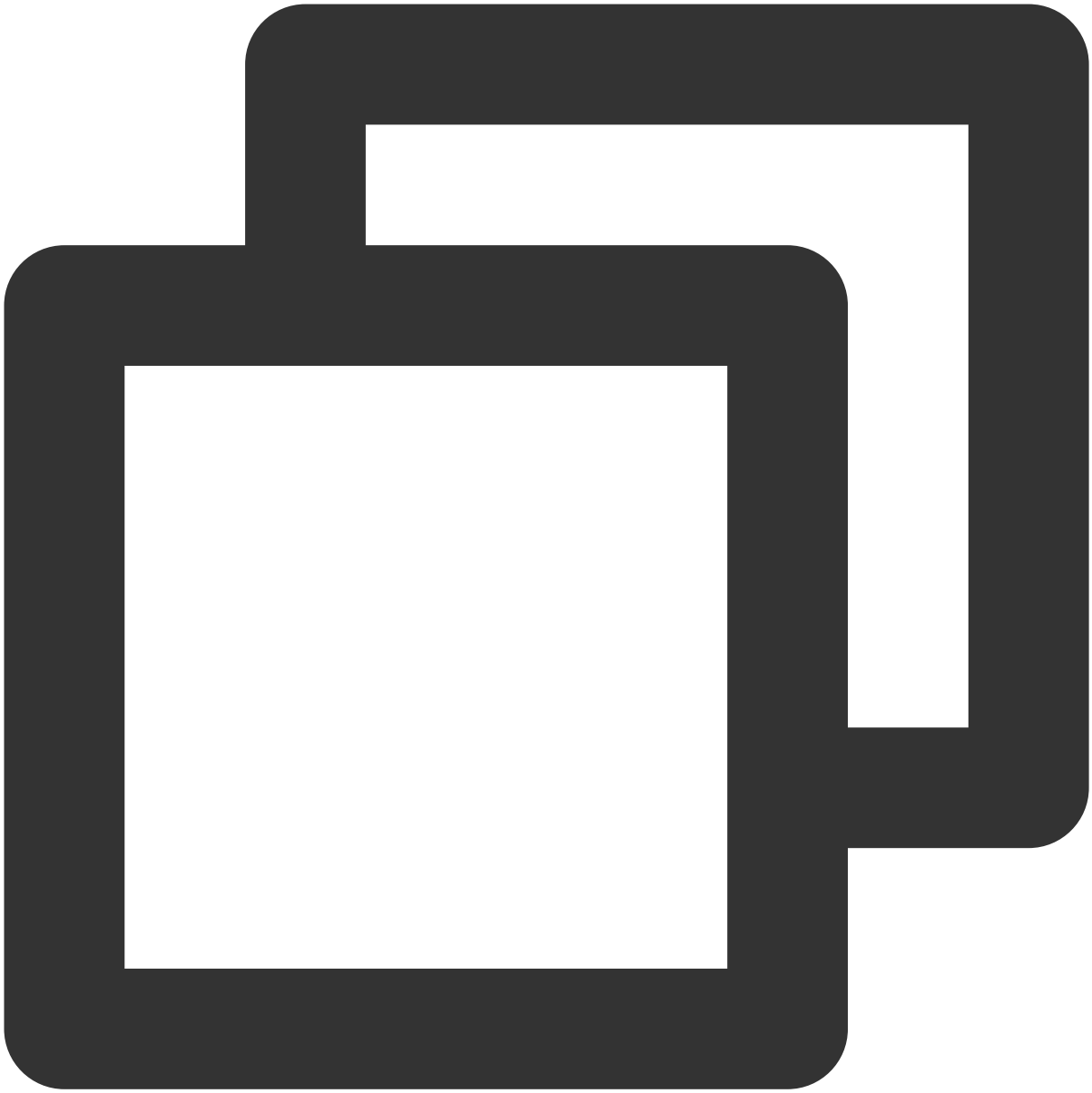
GetPrivateM3U8

Feature description

This API is used to get the download authorization for M3U8 and TS resources (requests are forwarded to CI by COS).

Method prototype

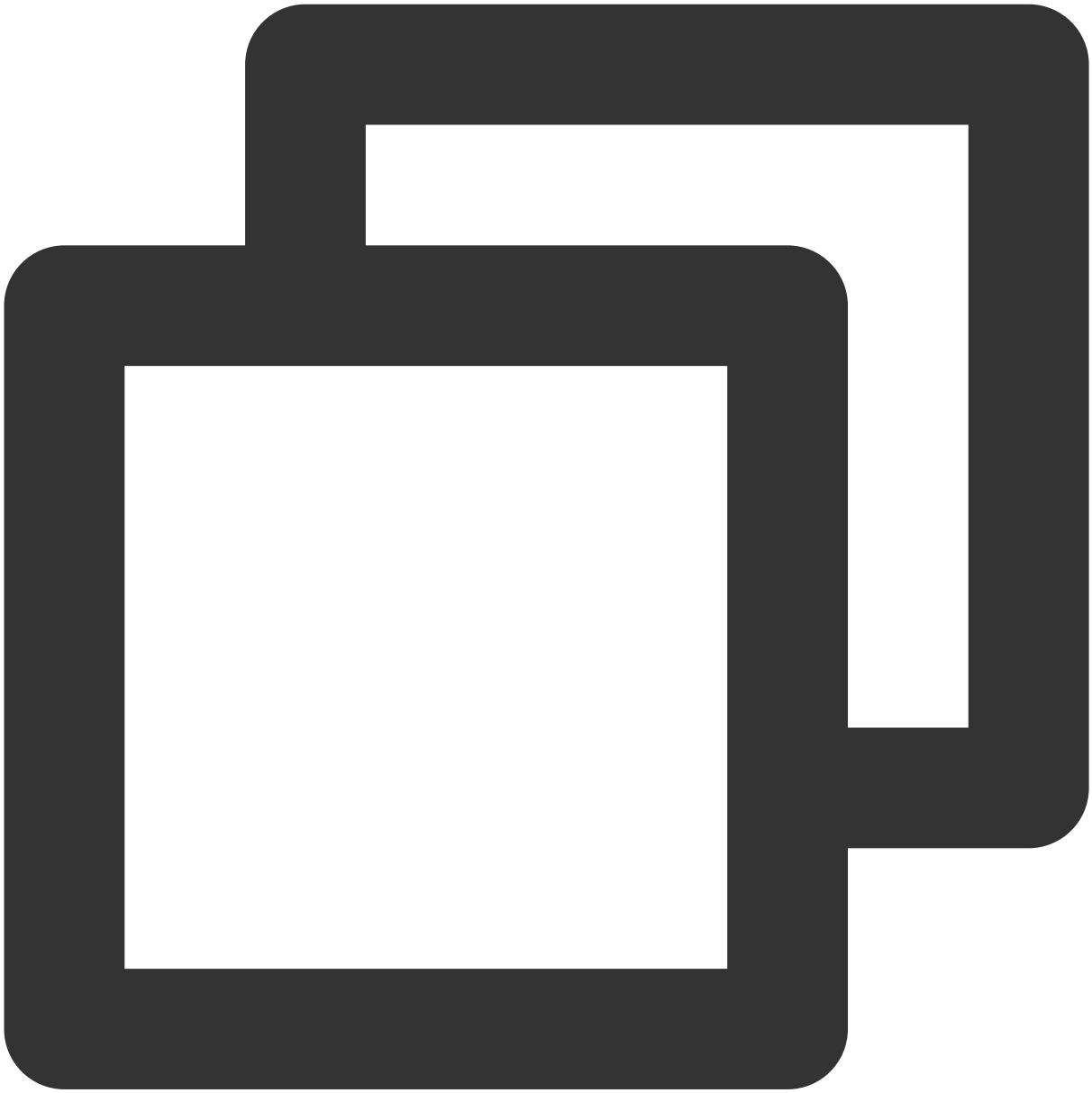
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```
public Guzzle\\Service\\Resource\\Model getPrivateM3U8(array $args = array());
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

try {
    $result = $cosClient->GetPrivateM3U8(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'xxx.m3u8', // Bucket file
        'ci-process' => 'pm3u8', // Operation type, which is fixed at `pm3u8`
        'expires' => '3600', // Relative validity period of the download credential
    ));
    // Request successful
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

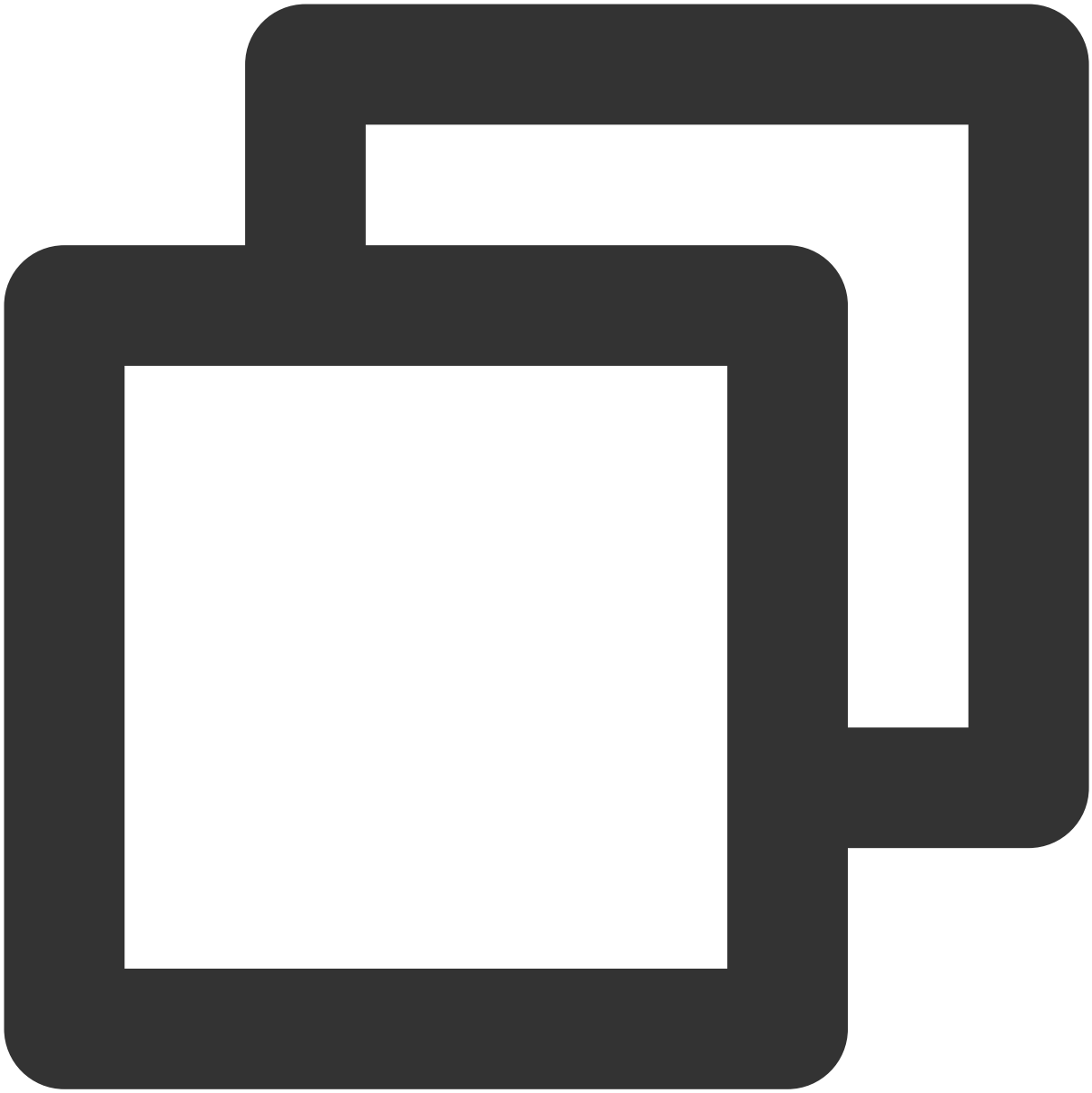
Parameter description

`Request` has the following sub-nodes:

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

Sample response

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```
 GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #89
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2MTFjYSDHIUsdsdSJDOIDTRfMjVjYzcw
    [ContentType] => application/x-mpegURL
    [ContentLength] => 4310
    [Key] => xxx.m3u8
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/xxx.m3u8
    [Data] => M3U8 file content
)
```

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Queue APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for media processing queues.

API	Description
Searching for media processing queues	Searches for media processing queues.
Updating a media processing queue	Updates a media processing queue.

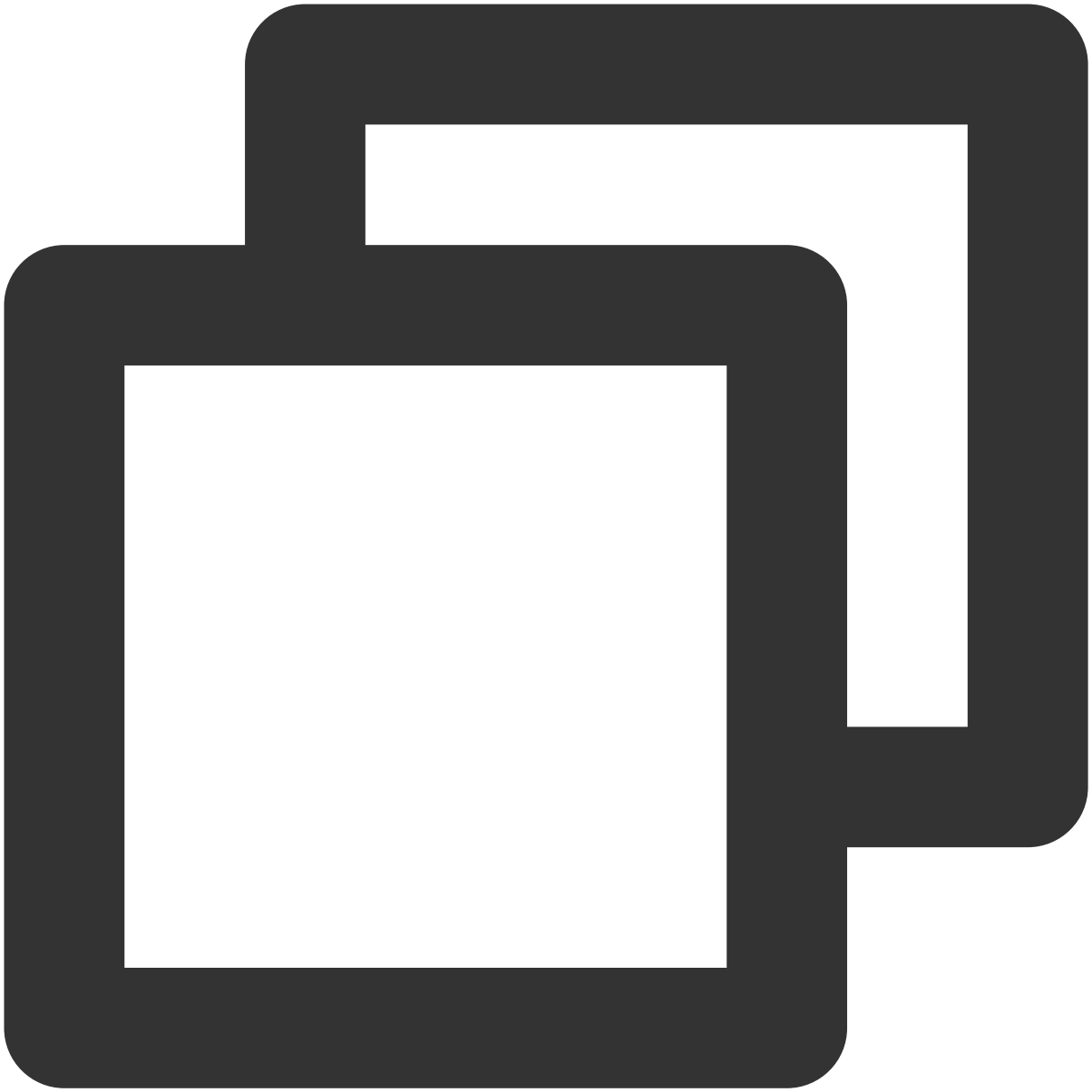
Searching for Media Processing Queues

Feature description

This API is used to search for media processing queues.

Method prototype

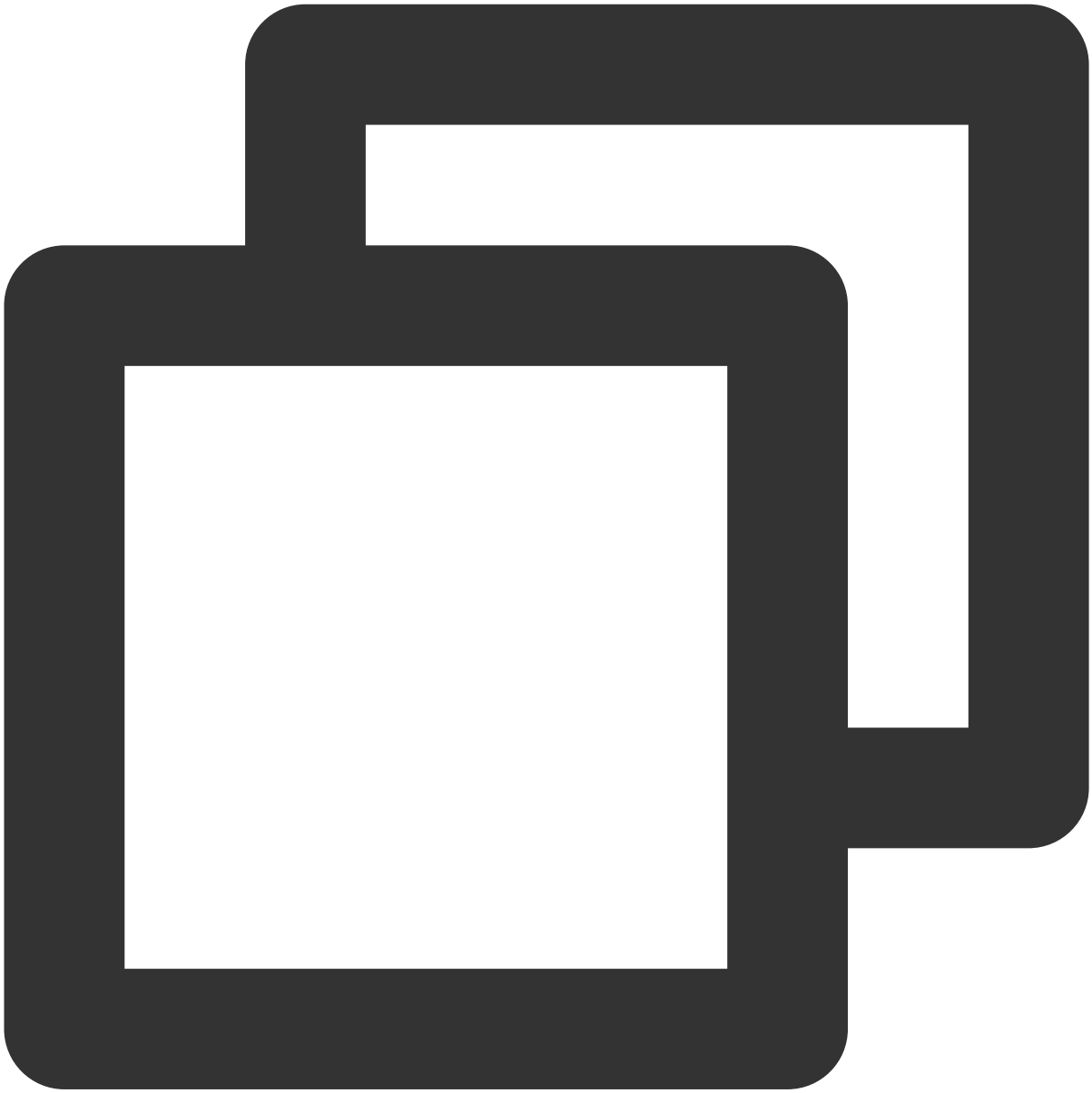
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```
public Guzzle\\Service\\Resource\\Model describeMediaQueues(array $args = array());
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

try {
    // https://cloud.tencent.com/document/product/436/54045: Searching for Media Pr
    $result = $cosClient->describeMediaQueues(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
//        'QueueIds' => '', // Queue ID (optional). If you enter multiple IDs, sepa
//        'Category' => 'Transcoding', // Category (optional). `CateAll`: All types
//        'State' => 'Paused', // Status (optional). 1. `Active`: Jobs in the queue
//        'PageNumber' => '1', // Page number (optional)
//        'PageSize' => '2', // Number of entries per page (optional)
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

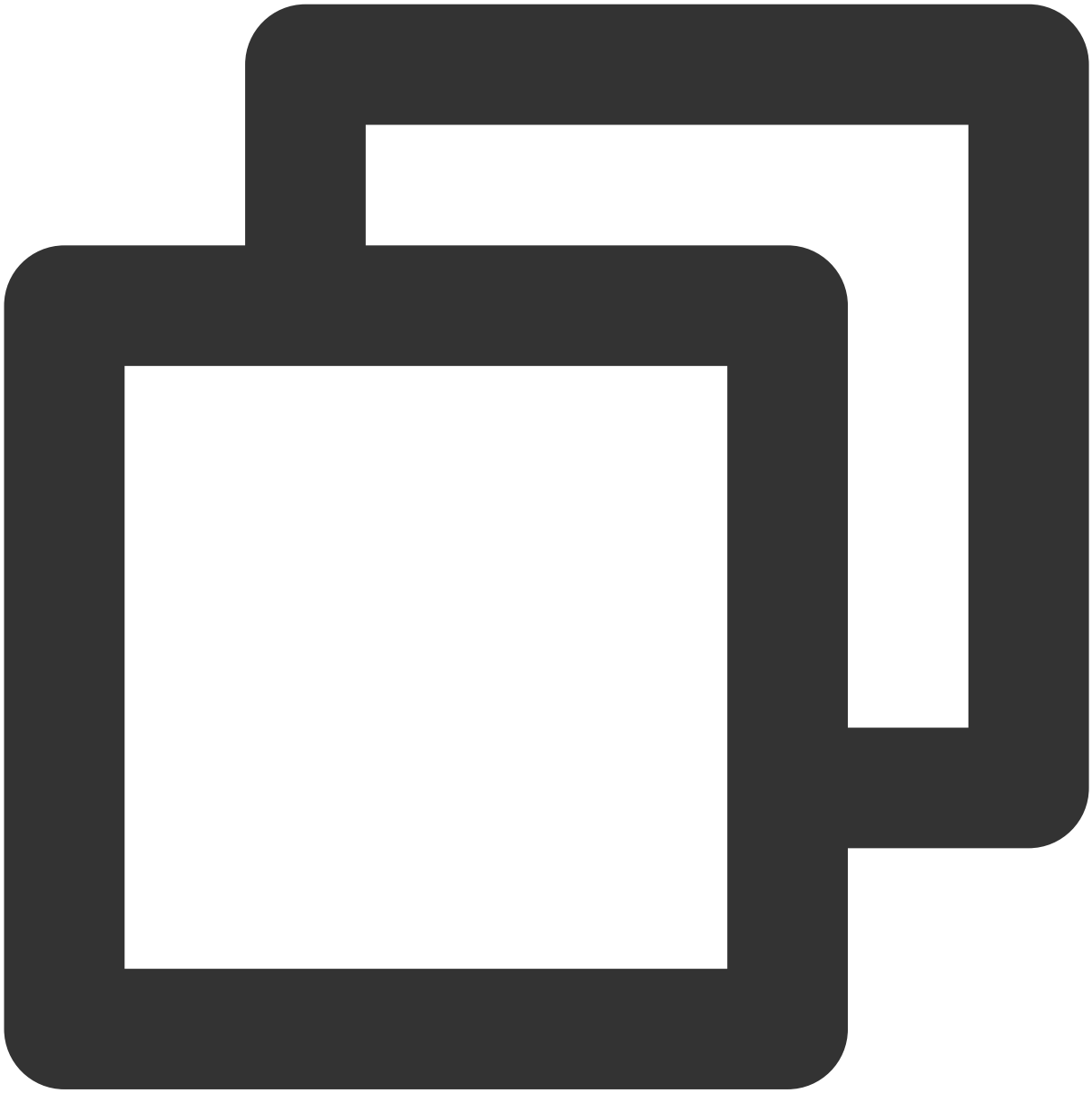
Parameter description

Request parameters are as described below:

Parameter Name (Keyword)	Description	Type	Required
QueueIds	Queue ID. If you enter multiple IDs, separate them by comma.	String	No
State	`Active` : Jobs in the queue will be scheduled and executed by the media processing service. `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
Category	`CateAll` : All types. `Transcoding` : Media processing queue. `SpeedTranscoding` : Media processing and accelerated transcoding queue. Default value: `Transcoding` .	String	No
PageNumber	Page number. Default value: `1` .	String	No
PageSize	Number of entries per page. Default value: `10` .	String	No

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
    [ContentType] => application/xml
    [ContentLength] => 751
    [TotalCount] => 1
    [PageNumber] => 1
    [PageSize] => 10
    [QueueList] => Array
        (
            [0] => Array
```

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```
                (
                    [BucketId] => examplebucket-1250000000
                    [QueueId] => pcc3ae89sa9d807fs89dg789sdg
                    [Name] => queue-1
                    [State] => Active
                    [MaxSize] => 10000
                    [MaxConcurrent] => 10
                    [Category] => Transcoding
                    [UpdateTime] => 2022-07-13T10:41:34+0800
                    [CreateTime] => 2022-07-13T10:41:34+0800
                    [NotifyConfig] => Array
                        (
                            [Url] =>
                            [State] => Off
                            [Type] =>
                            [Event] =>
                            [ResultFormat] => XML
                        )

                )

        )

    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/queue
)
```

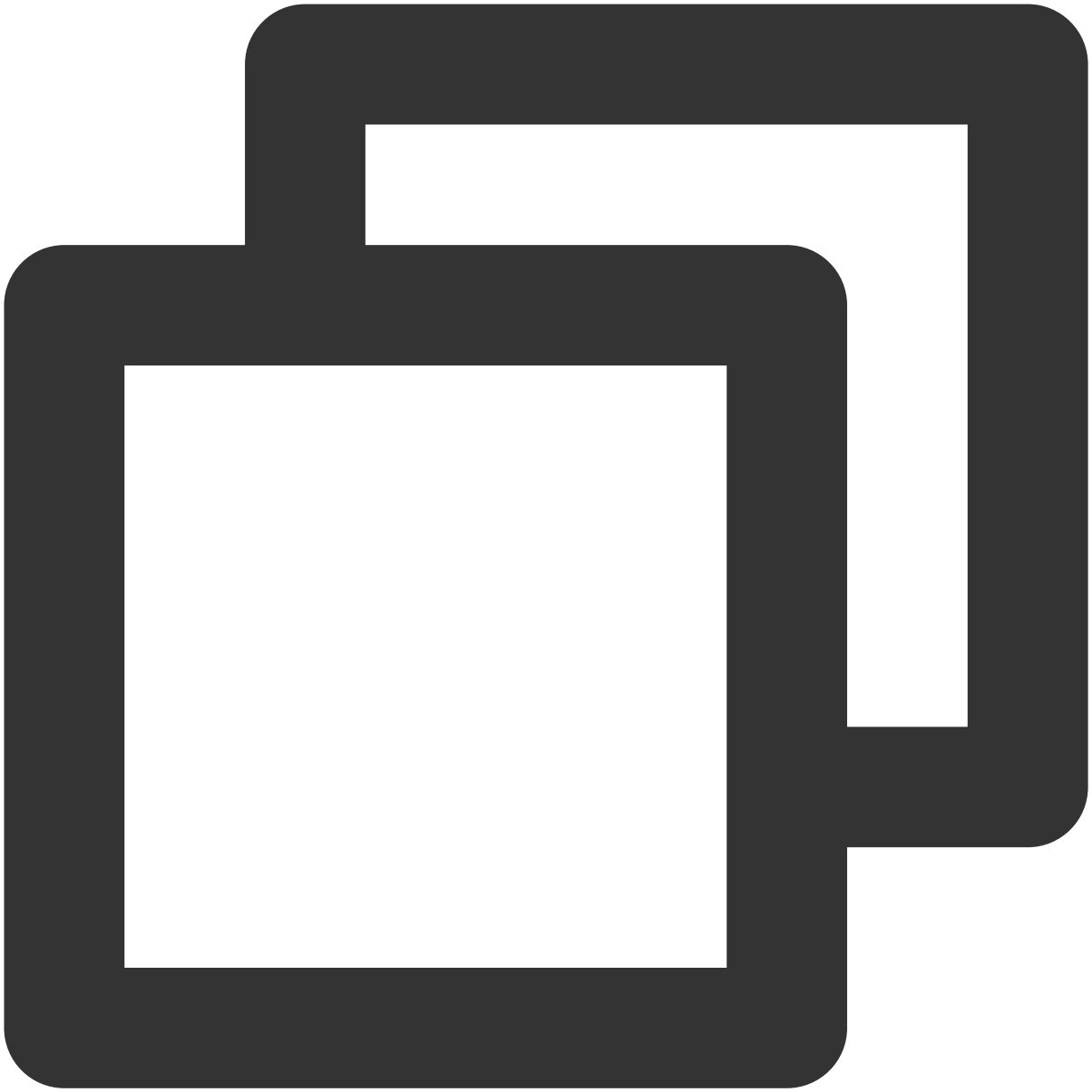
Updating a Media Processing Queue

Feature description

This API is used to update a media processing queue.

Method prototype

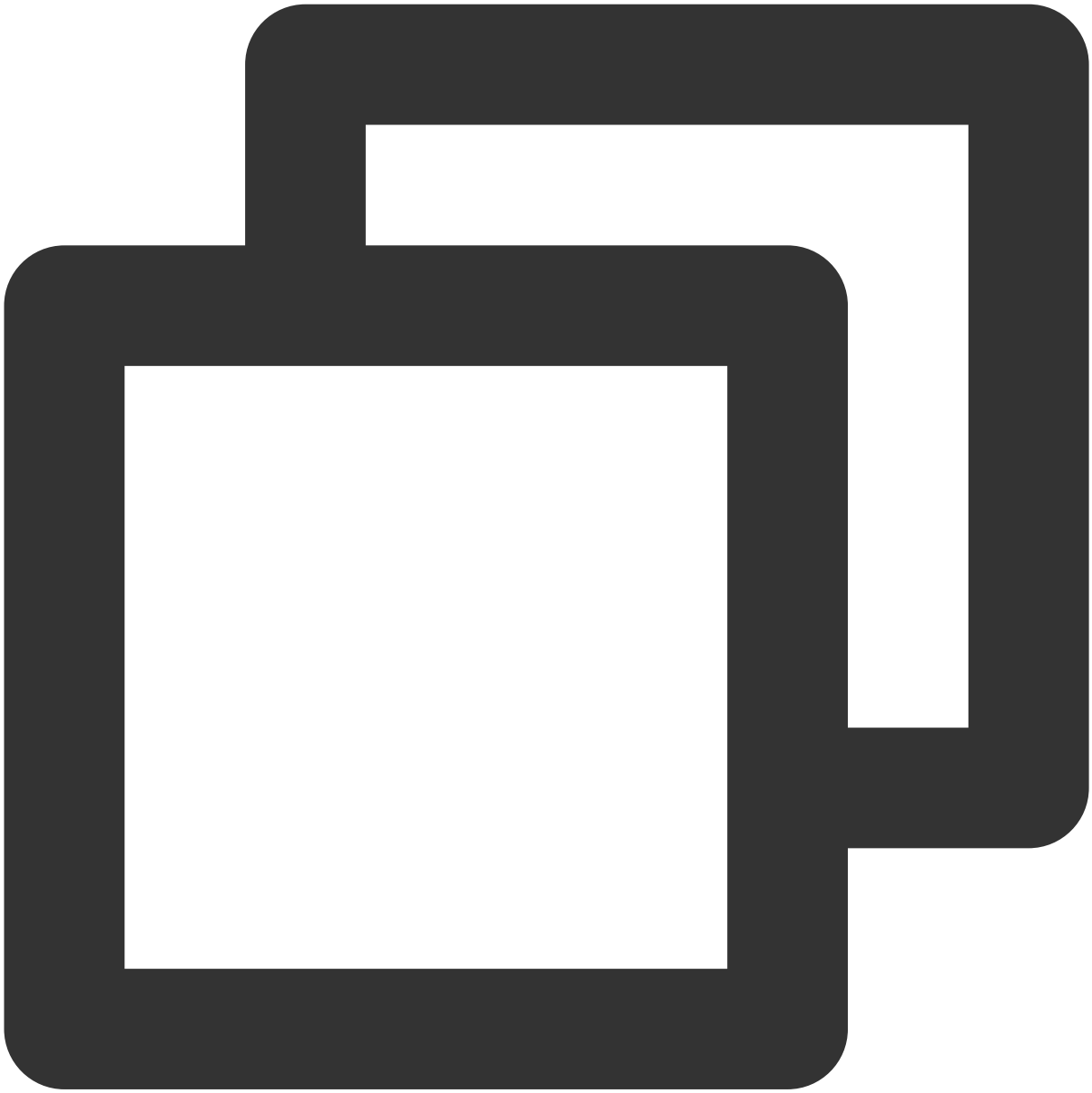
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```
public Guzzle\\Service\\Resource\\Model updateMediaQueue(array $args = array());
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

try {
    // https://cloud.tencent.com/document/product/436/54046: Updating Media Process
    $result = $cosClient->updateMediaQueue(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'xxx', // queueId
        'Name' => '', // Template name. Length limit: 100 characters.
        'State' => 'Active', // Pipeline status
        'NotifyConfig' => array(
            'State' => 'Off',
//            'Event' => '',
//            'ResultFormat' => '',
//            'Type' => '',
//            'Url' => '',
//            'MqMode' => '',
//            'MqRegion' => '',
//            'MqName' => '',
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Restrictions
Name	Request	Queue name (up to 128 characters).	String	Yes	None.	None.
State	Request	`Active` : Jobs in the queue will be scheduled and executed by the media processing service. `Paused` : The queue is paused, and jobs in it will no longer	String	Yes	None.	None.

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		be scheduled and executed. All jobs in the queue will remain in the `Paused` status, while jobs being executed will not be affected.				
NotifyConfig	Request	Callback configuration	Container	Yes	None.	None.

`NotifyConfig` has the following sub-nodes:

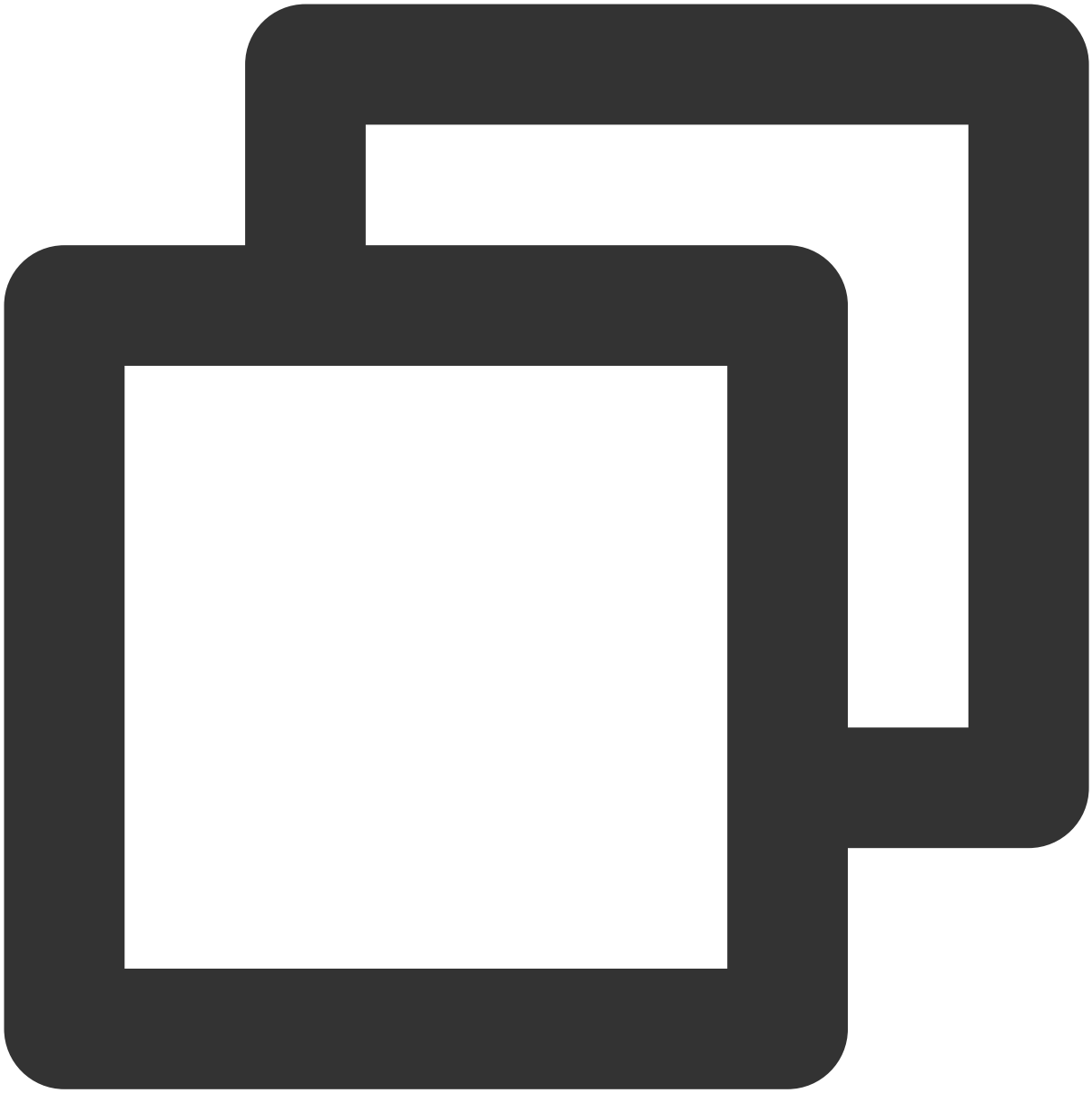
Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Restrictions
State	Request.NotifyConfig	Callback switch. Valid values: `Off`, `On`.	String	No	Off	On/Off
Event	Request.NotifyConfig	Callback event	String	Yes if `State` is `On`.	None.	Job completed: TaskFinish; workflow completed: WorkflowFinish.
ResultFormat	Request.NotifyConfig	Callback format	String	No	XML	JSON/XML
Type	Request.NotifyConfig	Callback type	String	Yes if `State` is `On`.	None.	URL or TDMQ
Url	Request.NotifyConfig	Callback Address	String	Yes if `State` is `On` and `Type` is `Url`.	None.	The callback address cannot be a private network address.
MqMode	Request.NotifyConfig	TDMQ queue mode	String	Yes if `State` is `On` and	Queue	Topic: Topic subscription. Queue: Queue service.

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				`Type` is `TDMQ`.		
MqRegion	Request.NotifyConfig	TDMQ region	String	Yes if `State` is `On` and `Type` is `TDMQ`.	None.	Valid values: `sh` (Shanghai), `bj` (Beijing), `gz` (Guangzhou), `cd` (Chengdu), `hk` (Hong Kong, China).
MqName	Request.NotifyConfig	TDMQ topic name	String	Yes if `State` is `On` and `Type` is `TDMQ`.	None.	None.

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
    [ContentType] => application/xml
    [ContentLength] => 668
    [Key] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/queue/fcd32
    [Response] => Array
        (
            [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
            [Queue] => Array
                (
                    [QueueId] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
                    [Name] => media-queue-1
                    [State] => Active
                    [NotifyConfig] => Array
                        (
                            [Url] =>
                            [Event] =>
                            [Type] =>
                            [State] => Off
                            [ResultFormat] => XML
                            [MqMode] =>
                            [MqName] =>
                            [MqRegion] =>
                        )

                    [MaxSize] => 10000
                    [MaxConcurrent] => 10
                    [CreateTime] => 2022-07-13T10:41:34+0800
                    [UpdateTime] => 2023-01-31T17:32:18+0800
                    [BucketId] => examplebucket-1250000000
                    [Category] => Transcoding
                )

        )

)
```

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File Processing
Querying File Preview Feature Status

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for querying the file preview feature status.

API	Description
Querying file preview feature status	Queries whether the file preview feature is enabled for a bucket.

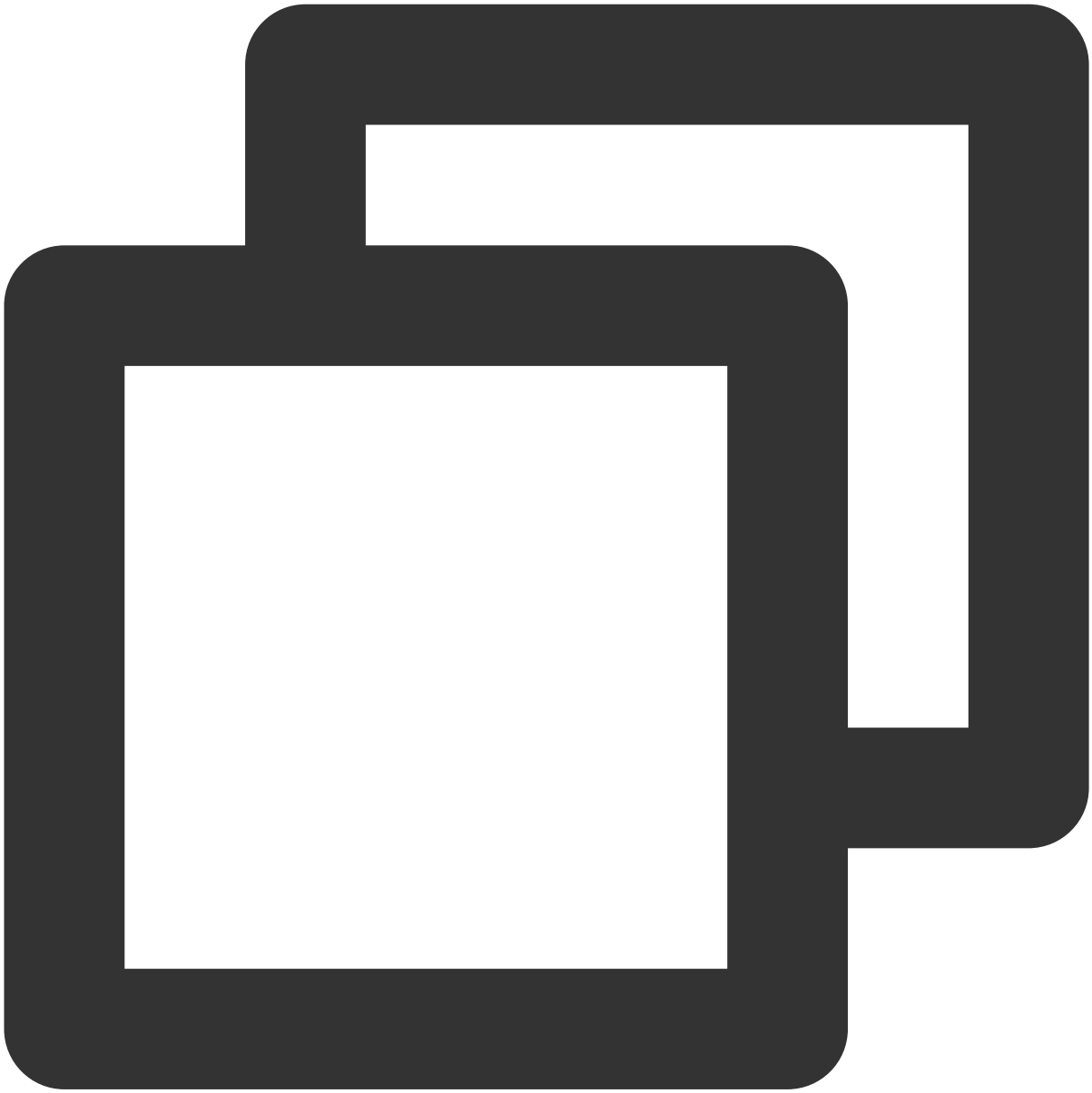
Querying File Preview Feature Status

Feature description

This API is used to query the buckets with the file preview feature enabled.

Method prototype

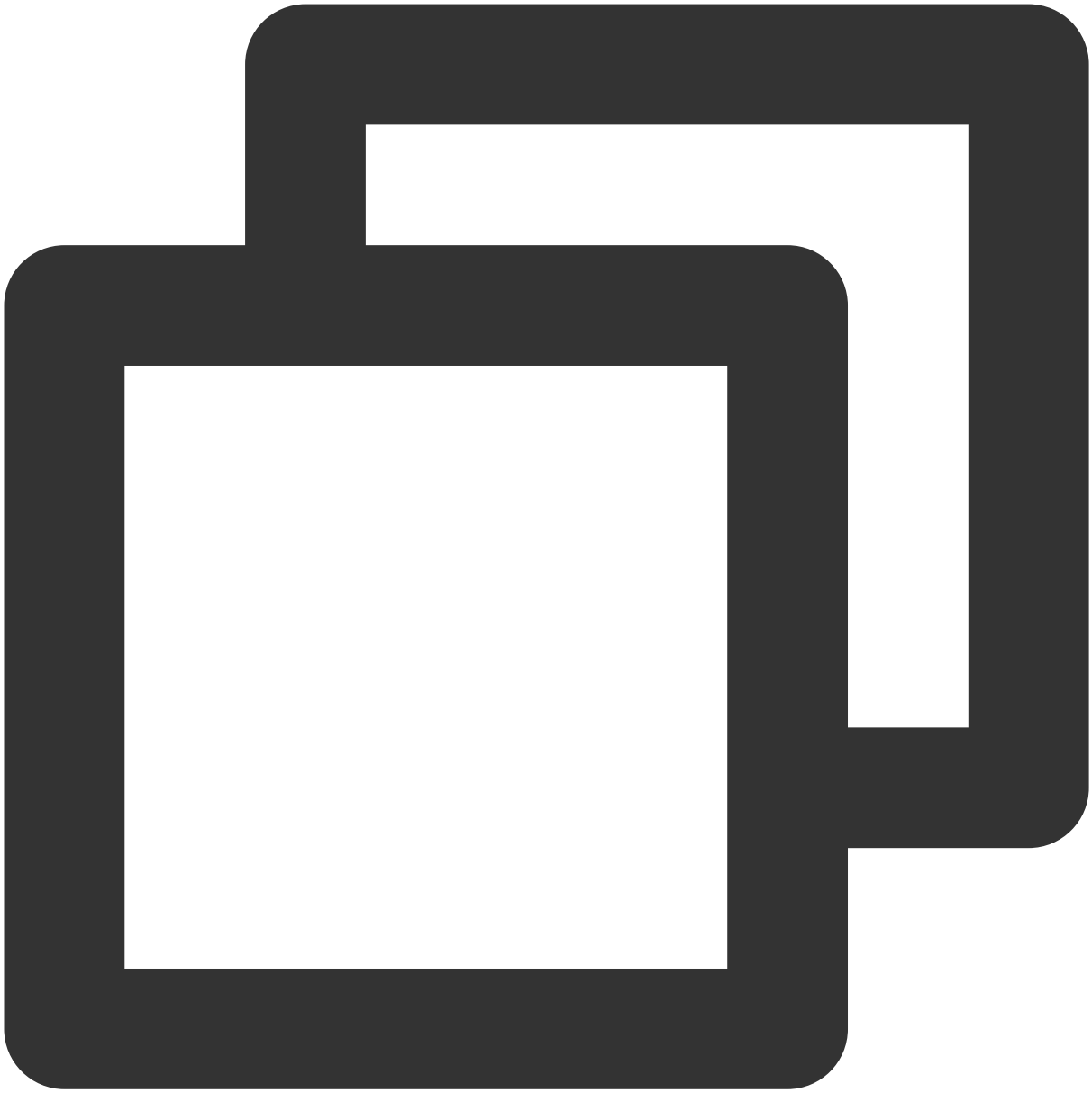
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```
public Guzzle\\Service\\Resource\\Model describeDocProcessBuckets(array $args = arr
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

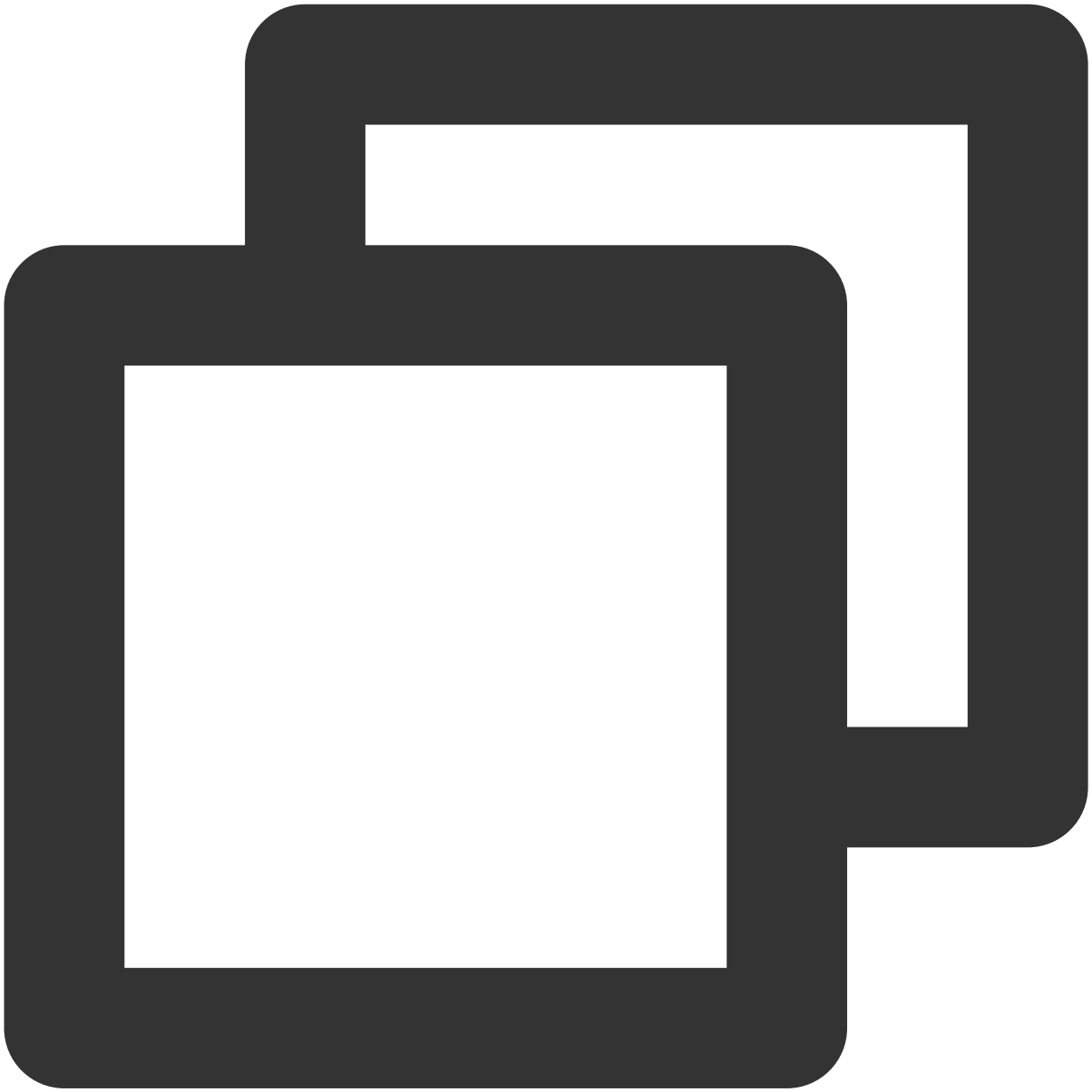
try {
    // Query the file preview feature status. For more information, visit https://c
    $result = $cosClient->describeDocProcessBuckets(array(
        'Regions' => '', // Optional region information, such as `ap-shanghai` and
        'BucketNames' => '', // Bucket name (optional). To specify multiple bucket
        'BucketName' => '', // Optional bucket name prefix for prefix search
        'PageNumber' => 1, // Optional page number
        'PageSize' => 20, // Optional number of entries per page
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjMxMDcwZDlfAHDKAJHSDKJASHDKY3
    [ContentType] => application/xml
    [ContentLength] => 4600
    [TotalCount] => 59
    [PageNumber] => 1
    [PageSize] => 3
    [DocBucketList] => Array
        (
            [0] => Array
```

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```
                (
                    [BucketId] => xxx-123
                    [Name] => xxx-123
                    [Region] => ap-chongqing
                    [CreateTime] => 2022-08-30T10:41:31+0800
                    [AliasBucketId] =>
                )

            [1] => Array
                (
                    [BucketId] => xxx-123
                    [Name] => xxx-123
                    [Region] => ap-chongqing
                    [CreateTime] => 2022-08-30T10:41:31+0800
                    [AliasBucketId] =>
                )

            [2] => Array
                (
                    [BucketId] => xxx-123
                    [Name] => xxx-123
                    [Region] => ap-chongqing
                    [CreateTime] => 2022-08-30T10:41:31+0800
                    [AliasBucketId] =>
                )

        )

    [Location] => ci.ap-guangzhou.myqcloud.com/docbucket
)
```

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File Transcoding
Sync Request API

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for file preview.

API	Operation	Description
File transcoding	Getting the request URL for file transcoding	Gets the request URL for file transcoding

Sync File Transcoding

Feature description

This API is used to get the request URL for file transcoding.

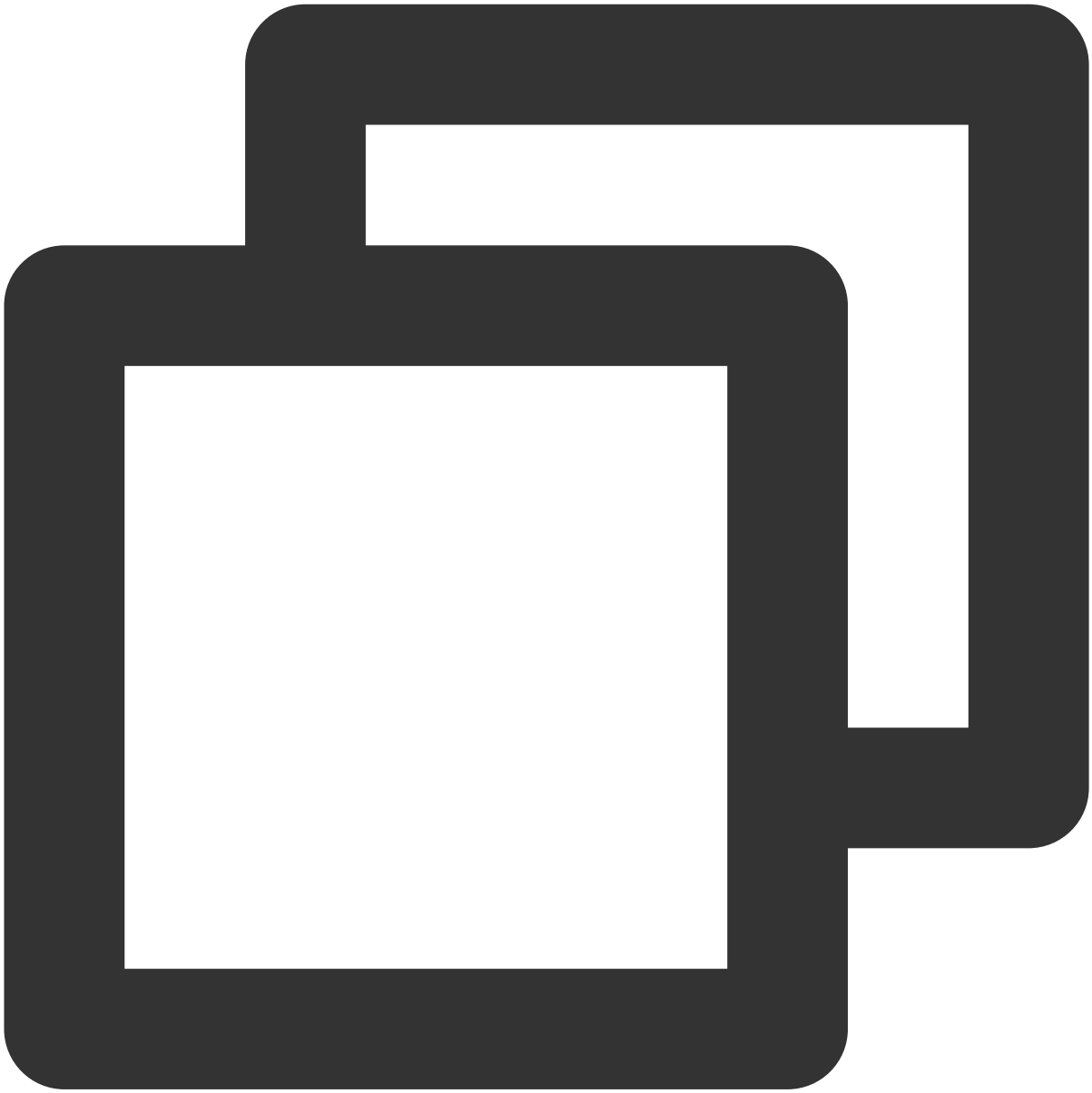
Note:

Before using this API, make sure that the file processing feature has been enabled in the data processing section in the console; otherwise, the error `doc bucket unbinded, bucket's host is unavailable` will be reported.

To use the file to HTML conversion feature, directly put the request parameters after the URL. The SDK is only responsible for calculating the signature.

Sample code

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // 1. For more information on file transcoding, visit https://cloud.tencent.com
    $bucket = 'examplebucket-1250000000';
    $key = 'exampleobject';
    $url = $cosClient->getObjectUrl($bucket, $key);
    $params = array(
        'ci-process' => 'doc-preview',
//        'srcType' => '',
        'page' => 3,
        'dstType' => 'png',
//        'password' => '',
//        'comment' => '',
//        'sheet' => '',
//        'excelPaperDirection' => '',
//        'excelRow' => '',
//        'excelCol' => '',
//        'excelPaperSize' => '',
//        'txtPagination' => '',
        'ImageParams' => 'imageMogr2/thumbnail/!50p',
//        'quality' => '',
//        'scale' => '',
//        'imageDpi' => '',
    );
    $query = http_build_query($params);
    echo $url . $query; // The generated accessible URL
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Common request parameters

Parameter	Description	Type	Required
Key	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

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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)

Header	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 page. Default value: `0` .	Int	No
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

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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 with pipeline operators. 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.

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.

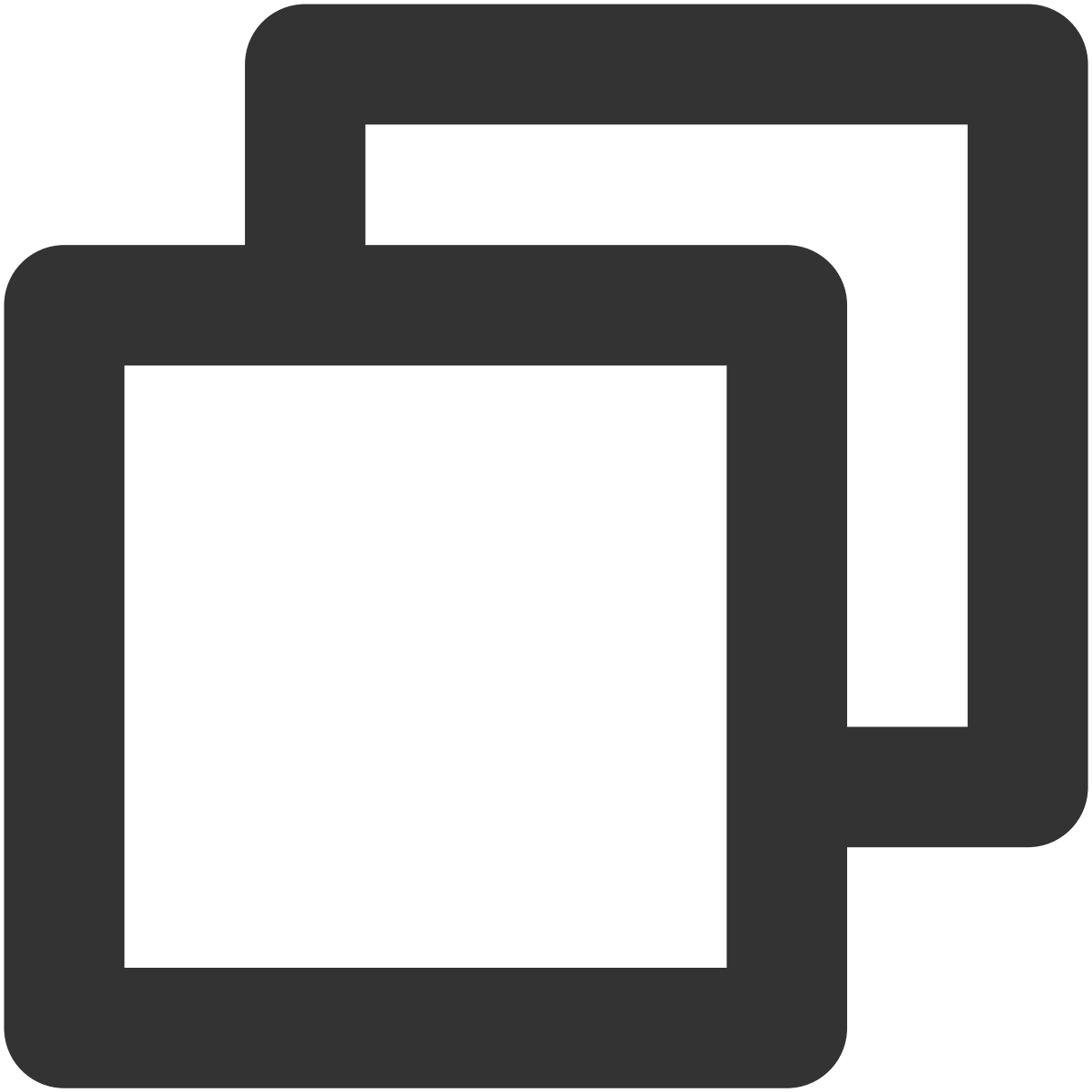
Other files: PDF, LRC, C, CPP, H, ASM, S, JAVA, ASP, BAT, BAS, PRG, CMD, RTF, TXT, LOG, XML, HTM, HTML.

The input file size cannot exceed 200 MB.

The number of pages in the input file cannot exceed 5,000.

Sample response

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```
Sync request URL
https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/example.ppt?sign=q-s
```

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Async Processing Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for async processing jobs.

Note:

COS PHP SDK v2.4.0 or later is required. Earlier versions may contain bugs and need to be upgraded to the latest version when used.

API	Operation	Description
CreateDocProcessJobs	Submitting a file preview job	Submits a file preview job.
DescribeDocProcessJob	Querying file preview job	Queries specified file preview job.
DescribeDocProcessJobs	Pulling file preview jobs	Pulls eligible file preview jobs.

Submitting File Preview Job

Feature description

This API (`CreateDocProcessJobs`) is used to submit a file preview job.

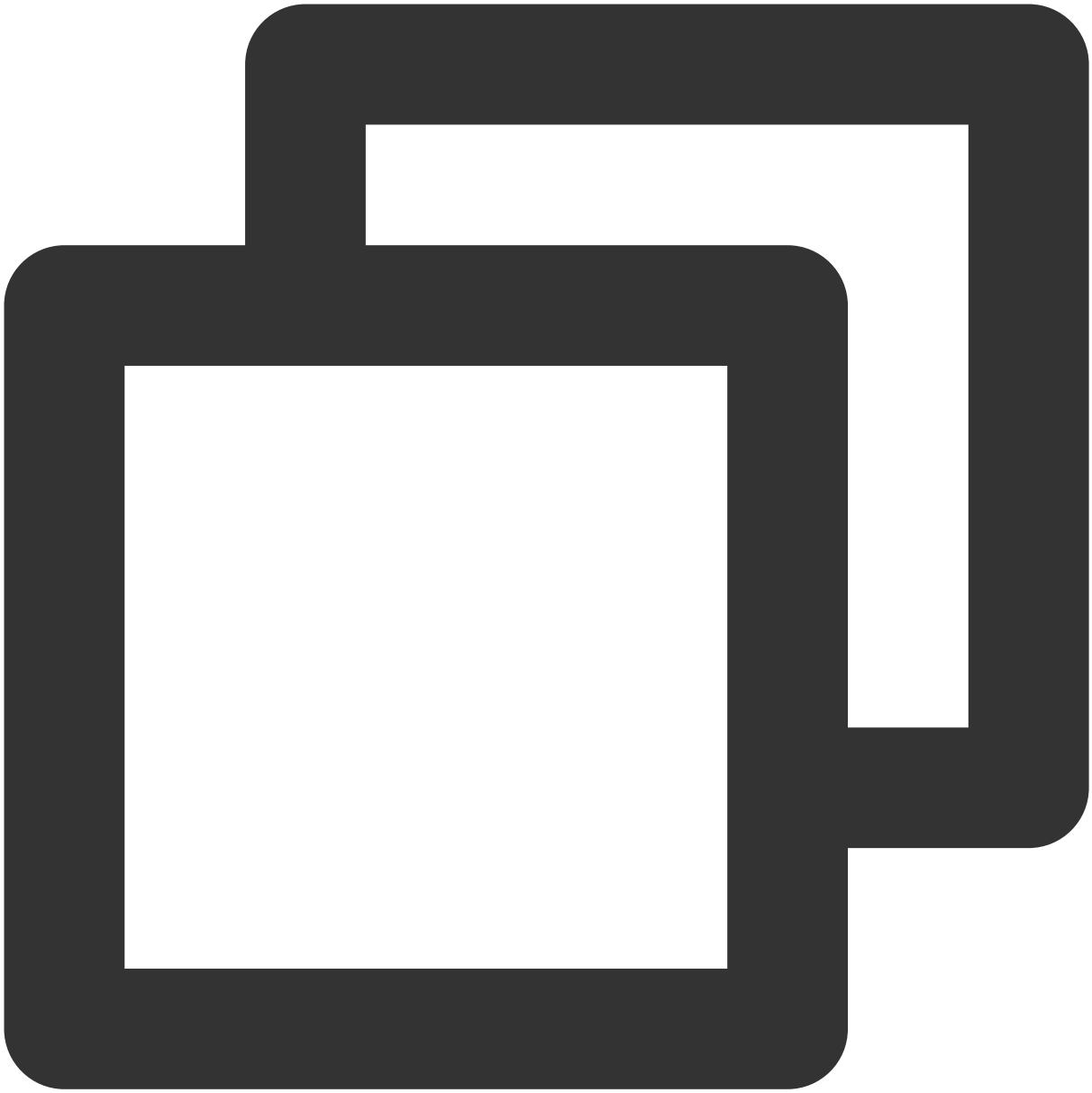
Note:

Before using this API, make sure that the file processing feature has been enabled in the data processing section in the console; otherwise, the error `doc bucket unbinded, bucket's host is unavailable` will be reported.

To use the file to HTML conversion feature, directly put the request parameters after the URL. The SDK is only responsible for calculating the signature.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createDocProcessJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'DocProcess', // Job tag: DocProcess
        'QueueId' => 'pd8e422a2ea134165a92f2012ea43****', // Queue ID of the job
        'Input' => array(
            'Object' => 'Append Test Feature.pdf' // The object to be processed
        ),
        'Operation' => array(
            'DocProcess' => array(
                'SrcType' => 'pdf', // Source file extension
                'TgtType' => 'png', // Target file extension
                'SheetId' => 0, // Sheet parameter, indicating to convert the xth s
                'StartPage' => 1, // Start page number, indicating to convert the f
                'EndPage' => 3, // End page number, indicating to convert the file
                'ImageParams' => '', // Image processing parameters after the conve
                'DocPassword' => '', // Office file password
                'Comments' => 0, // Whether to hide comments and apply track change
                'PaperDirection' => 0, // Paper orientation of the spreadsheet. Def
                'Quality' => 100, // Quality of the generated preview image. Value
                'Zoom' => 100, // Scaling parameter of the preview image. Value ran
            ),
            'Output' => array(
                'Region' => $region, // Bucket region
                'Bucket' => 'examplebucket-1250000000', // Result storage bucket
                'Object' => 'pic-${Page}.jpg', // Output file path
            ),
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Parameter Name	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes

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Operation	Array	Operation rule	Yes
Tag	String	Job tag, which currently can only be `DocProcess` .	Yes
Input	Array	The object to be processed	Yes
QueueId	String	Queue ID of the job	Yes

`Input` has the following sub-nodes:

Parameter Name	Type	Description	Required
Object	File URL in COS. `Bucket` is specified by `Host` .	Yes	

`Operation` has the following sub-nodes:

Parameter Name	Type	Description	Required
DocProcess	Array	Specifies the parameter for the job, which takes effect only if `Tag` is `DocProcess` .	Yes
Output	Array	Result output address	Yes

`DocProcess` has the following sub-nodes:

Parameter Name	Type	Description	Required
srcType	String	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.	No
tgtType	String	Type of the output target file. Valid values: `png` , `jpg` , `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.	No
sheetId	Integer	Sheet parameter, indicating to convert the xth sheet. Default value: `1` . If it is set to `0` , all sheets will be converted.	No
startPage	Integer	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` .	No

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endPage	Integer	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).	No
imageParams	String	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.	No
docPassword	String	Password to open the Office file. If you need to convert a password-protected file, set this field.	No
comments	Integer	Whether to hide comments and apply track changes. 0: hide comments and apply track changes; 1: show comments and track changes. Default value: `0`.	No
paperDirection	Integer	Paper orientation of the spreadsheet. `0`: vertical; other values: horizontal. Default value: `0`.	No
quality	Integer	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%.	No
zoom	Integer	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%.	No

`Output` has the following sub-nodes:

Parameter Name	Type	Description	Required
Region	String	Bucket region	Yes
Bucket	String	Result storage bucket	Yes
Object	String	Output file path	Yes

Response parameters

Parameter	Type	Description
Code	String	Error code, which will be meaningful only if `State` is `Failed`.

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Message	String	Error description, which will be meaningful only if `State` is `Failed`.
JobId	String	Job ID
Tag	String	Job tag: DocProcess
State	String	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.
CreationTime	String	Job creation time
QueueId	String	ID of the queue which the job is in
Input	Array	Input file path of the job
Operation	Array	Operation rule

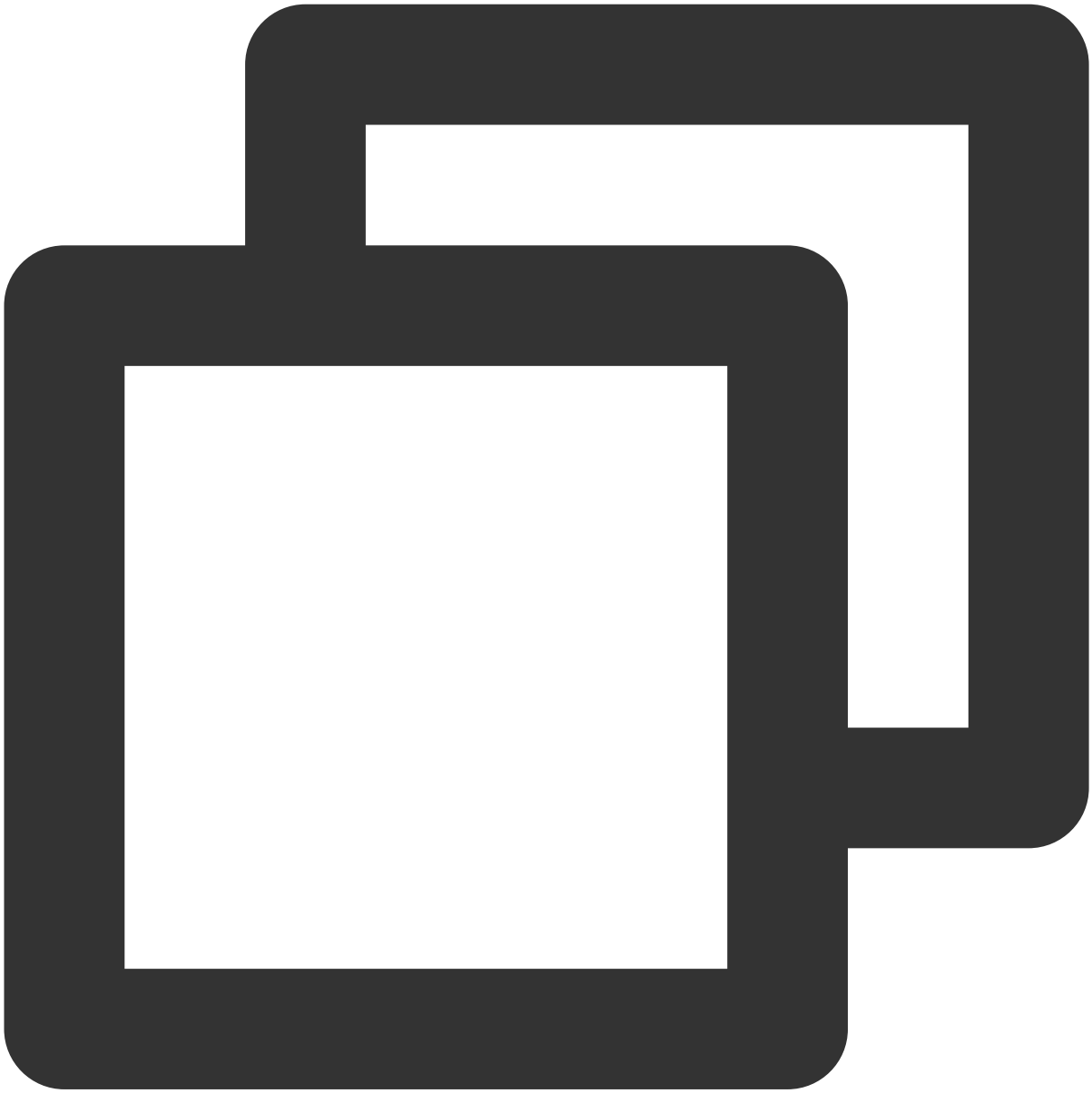
Querying Specified File Preview Job

Feature description

This API (`DescribeDocProcessJob`) is used to query a specified file preview job.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->describeDocProcessJob(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'examplejobid', // JobId
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description
Bucket	COS bucket name	String
Key	Job ID	String

Response parameters

Parameter	Type	Description
jobsDetail	Job details	Array

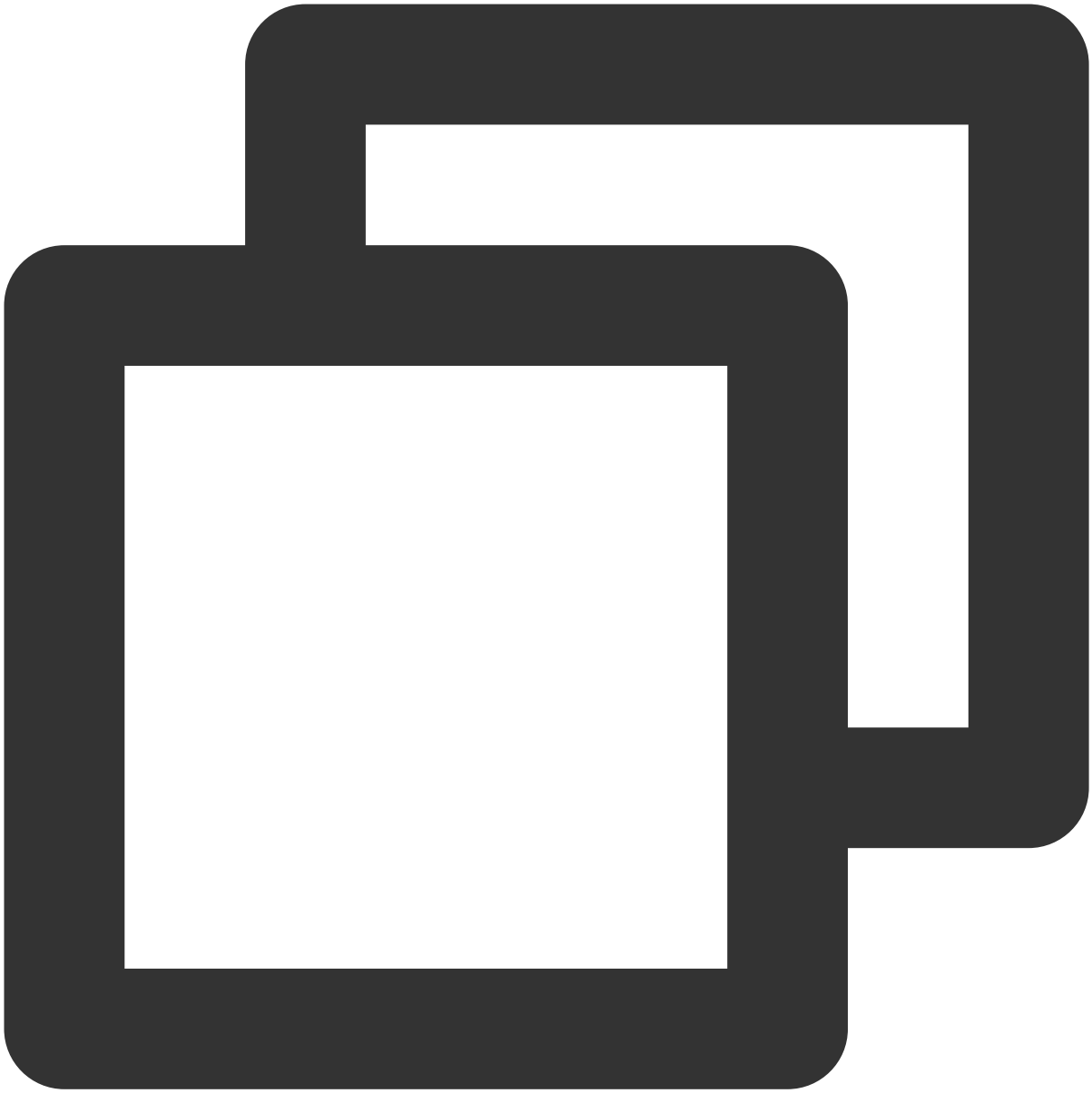
Pulling File Preview Job

Feature description

The API (`DescribeDocProcessJobs`) is used to pull file preview jobs that meet specified conditions.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->getDescribeDocProcessJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'QueueId' => 'pd8e422a2ea134165a92f2012ea43****', // ID of the queue from w
        'Tag' => 'DocProcess', // Job tag: DocProcess
//      'NextToken' => '143486', // Context token for pagination
//      'OrderByTime' => 'Desc', // `Desc` (default) or `Asc`
//      'Size' => 2, // Maximum number of jobs that can be pulled. Default value: `
//      'States' => 'All', // Status of the jobs to pull. If you enter multiple job
//      'StartCreationTime' => '2021-10-10T16:20:07+0800', // Start time of the tim
//      'EndCreationTime' => '2021-10-10T16:20:07+0800', // End time of the time ra
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	COS bucket name	Yes
QueueId	String	ID of the queue from which jobs are pulled	Yes
Tag	String	Job tag: DocProcess	Yes
OrderByTime	String	`Desc` (default) or `Asc`	No
NextToken	String	Context token for pagination	No
Size	Integer	Maximum number of jobs that can be pulled. The default value is 10. The maximum value is 100.	No
States	String	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`.	No
StartCreationTime	String	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	No

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EndCreationTime	String	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z` .	No

Response parameters

Parameter	Type	Description
JobDetail	Array	List of job details
nextToken	String	Context token for pagination

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Async Processing Queue APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for async processing queues.

API	Operation	Description
DescribeDocProcessQueues	Querying file transcoding queues	Queries file transcoding queues.
UpdateDocProcessQueue	Querying file transcoding queues	Queries file transcoding queues.

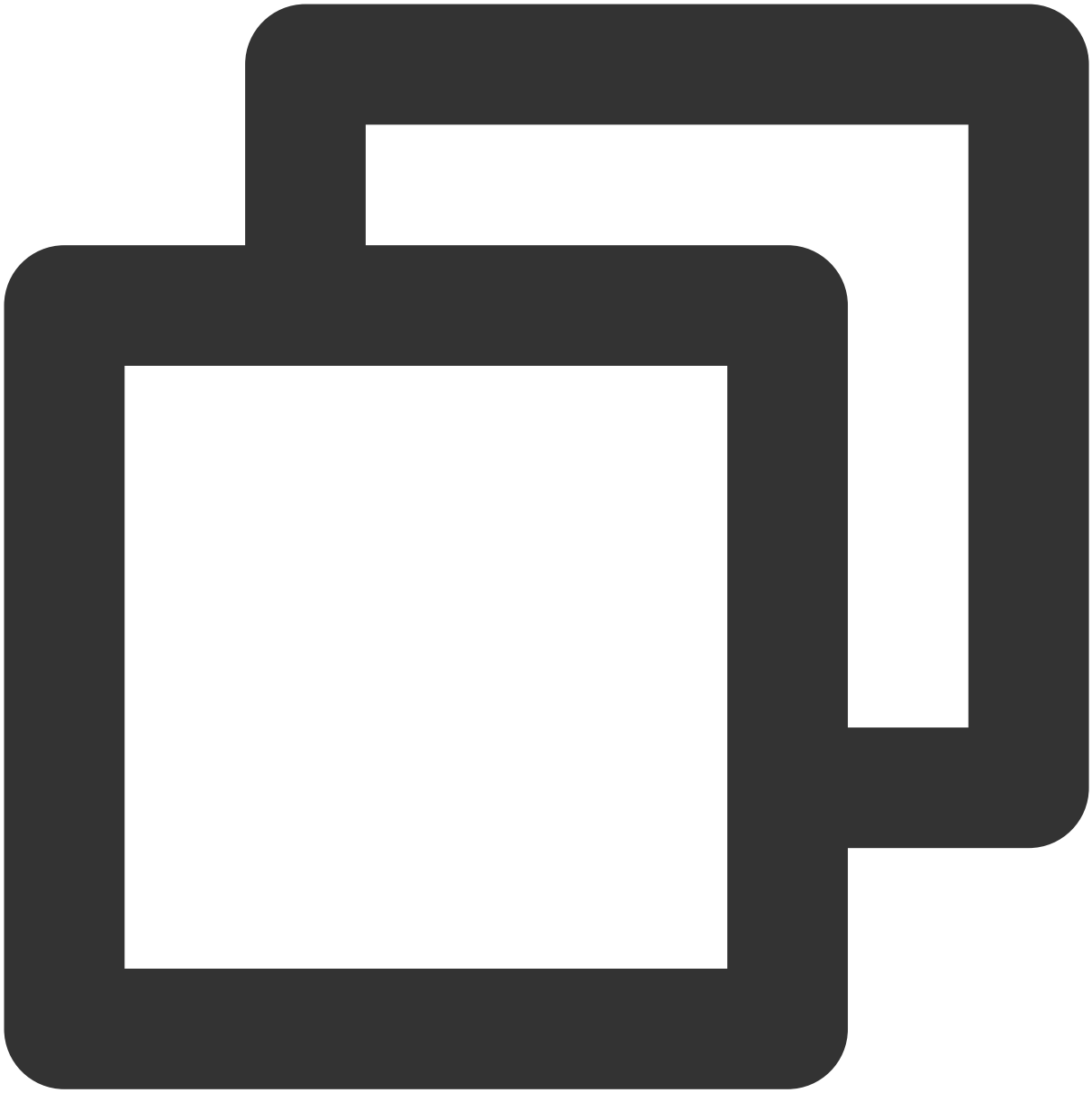
Querying File Transcoding Queue

Feature description

This API (`DescribeDocProcessQueues`) is used to query the file transcoding queue. It can also be used to get the ID of the queue where the specified bucket is in.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->describeDocProcessQueues(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description
Bucket	COS bucket name	String

Response parameters

`Response` has the following sub-nodes:

Parameter	Type	Description
RequestId	String	Unique ID of the request
TotalCount	Integer	Total number of queues
PageNumber	Integer	Current page number. Same as `pageNumber` in the request.
PageSize	Integer	Number of entries per page. Same as `pageSize` in the request.
QueueList	Array	Queue array

`QueueList` has the following sub-nodes:

Parameter	Type	Description
QueueId	String	Queue ID
Name	String	Queue name
State	String	Current status: `Active` or `Paused`
NotifyConfig	Array	Callback configuration

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MaxSize	Integer	Maximum queue length
MaxConcurrent	Integer	Maximum number of concurrent jobs in the current queue
UpdateTime	String	Update time
CreateTime	String	Creation time

`NotifyConfig` has the following sub-nodes:

Parameter	Type	Description
Url	String	Callback address
State	String	Status: `On` or `Off`
Type	String	Callback type: Url
Event	String	The event that triggers the callback

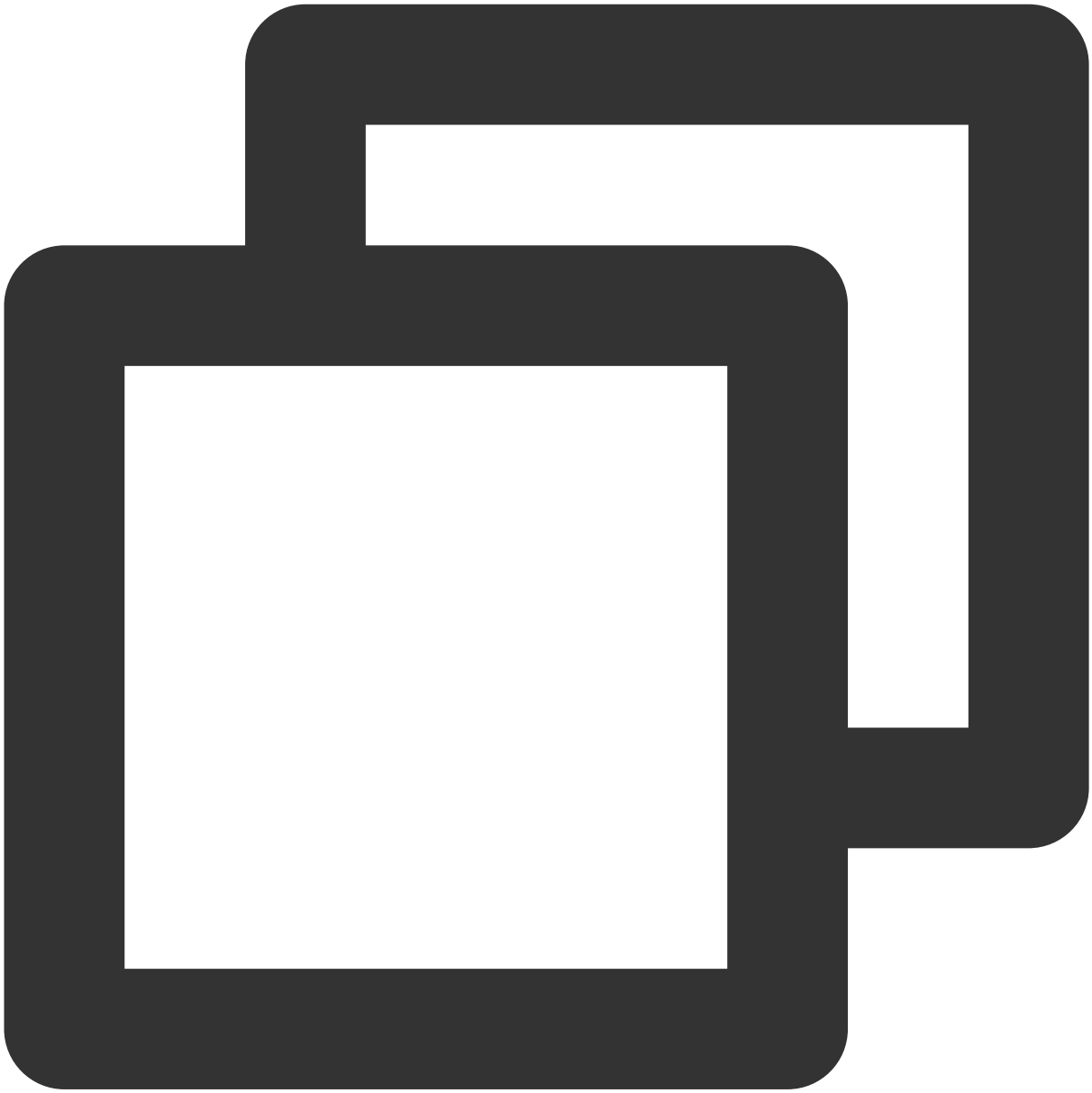
Updating File Transcoding Queue

Feature description

This API (`UpdateDocProcessQueue`) is used to update a file transcoding queue.

Sample code

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Update the file transcoding queue as instructed at https://cloud.tencent.com
    $result = $cosClient->updateDocProcessQueue(array(
        'Bucket' => 'examplebucket-125000000', // Bucket name in the format of `Buc
        'Key' => '', // QueueID
        'Name' => '',
        'QueueID' => '',
        'State' => '',
        'NotifyConfig' => array(
            'Url' => '',
            'Type' => '',
            'Event' => '',
            'State' => '',
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Name	Request	Queue name	String	Yes	Up to 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.

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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	Up to 100 characters
Type	Request.NotifyConfig	Callback type. General callback: `Url`.	String	No	Up to 100 characters
Event	Request.NotifyConfig	Callback event: File preview job completed.	String	No	Up to 100 characters
State	Request.NotifyConfig	Callback status: `Off` or `On`.	String	No	Up to 100 characters

Response parameters

`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

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File-to-HTML Conversion

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for file preview.

API	Operation	Description
File-to-HTML conversion	Getting the request URL for file-to-HTML conversion	Gets the request URL for file-to-HTML conversion.

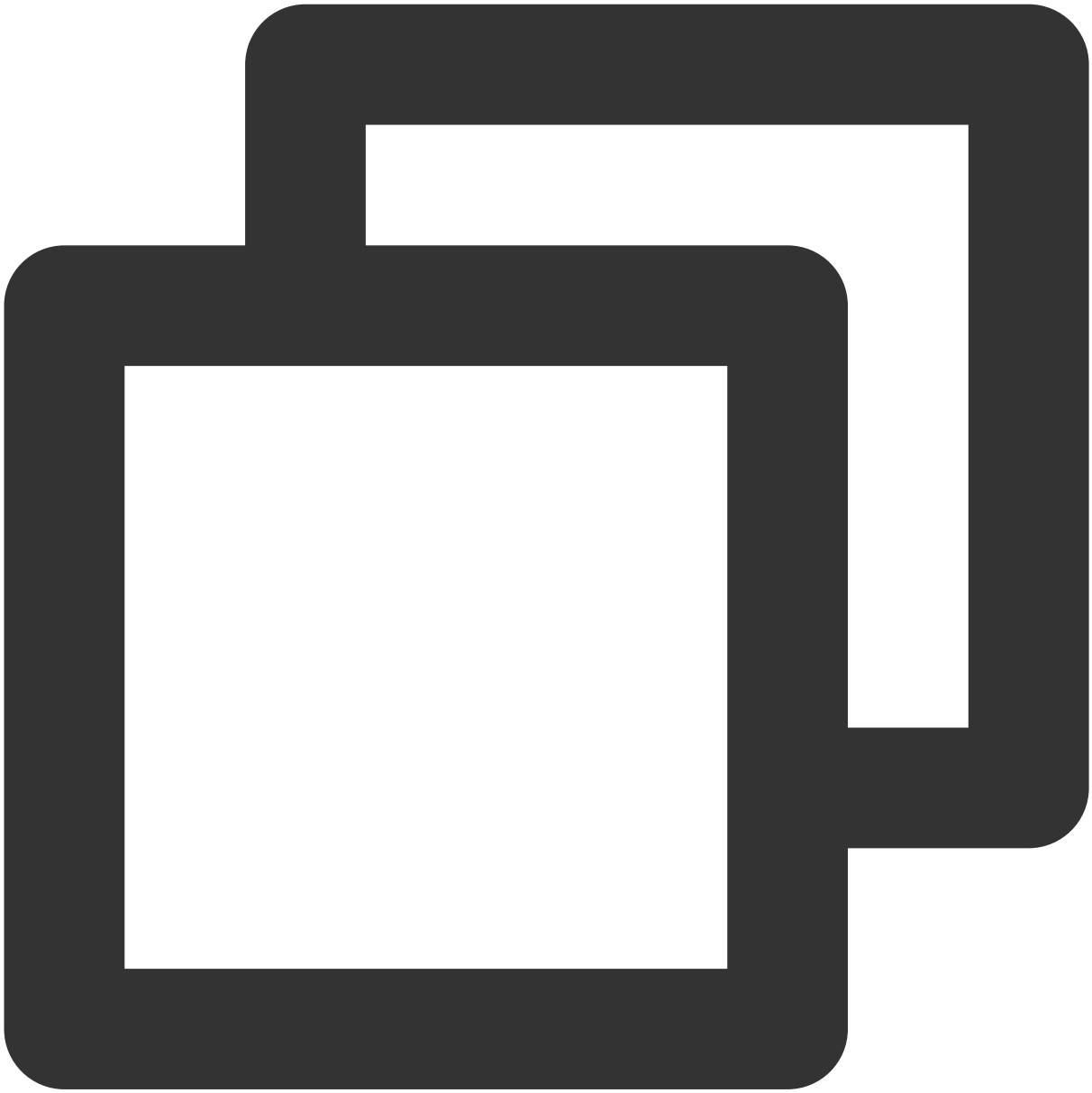
File-to-HTML Conversion

Feature description

This API is used to get the request URL for file-to-HTML conversion.

Sample code

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // 2. Convert the file to HTML. For more information, visit https://cloud.tence
    $bucket = 'examplebucket-1250000000';
    $key = 'exampleobject';
    $url = $cosClient->getObjectUrl($bucket, $key, "+30 minutes");
    $params = array(
        'ci-process' => 'doc-preview',
//        'srcType' => '',
        'dstType' => 'html',
//        'sign' => '',
//        'copyable' => '',
//        'htmlParams' => '',
//        'htmlwaterword' => '',
//        'htmlfillstyle' => '',
//        'htmlfront' => '',
//        'htmlrotate' => '',
//        'htmlhorizontal' => '',
//        'htmlvertical' => '',
    );
    $query = http_build_query($params);
    echo $url . $query; // The generated accessible URL
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Name	Description	Type	Required
Key	Object filename, such as `folder/document.pdf` .	String	Yes
ci-process	CI's processing capability, which is fixed at `doc-preview` for file preview in HTML.	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

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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.

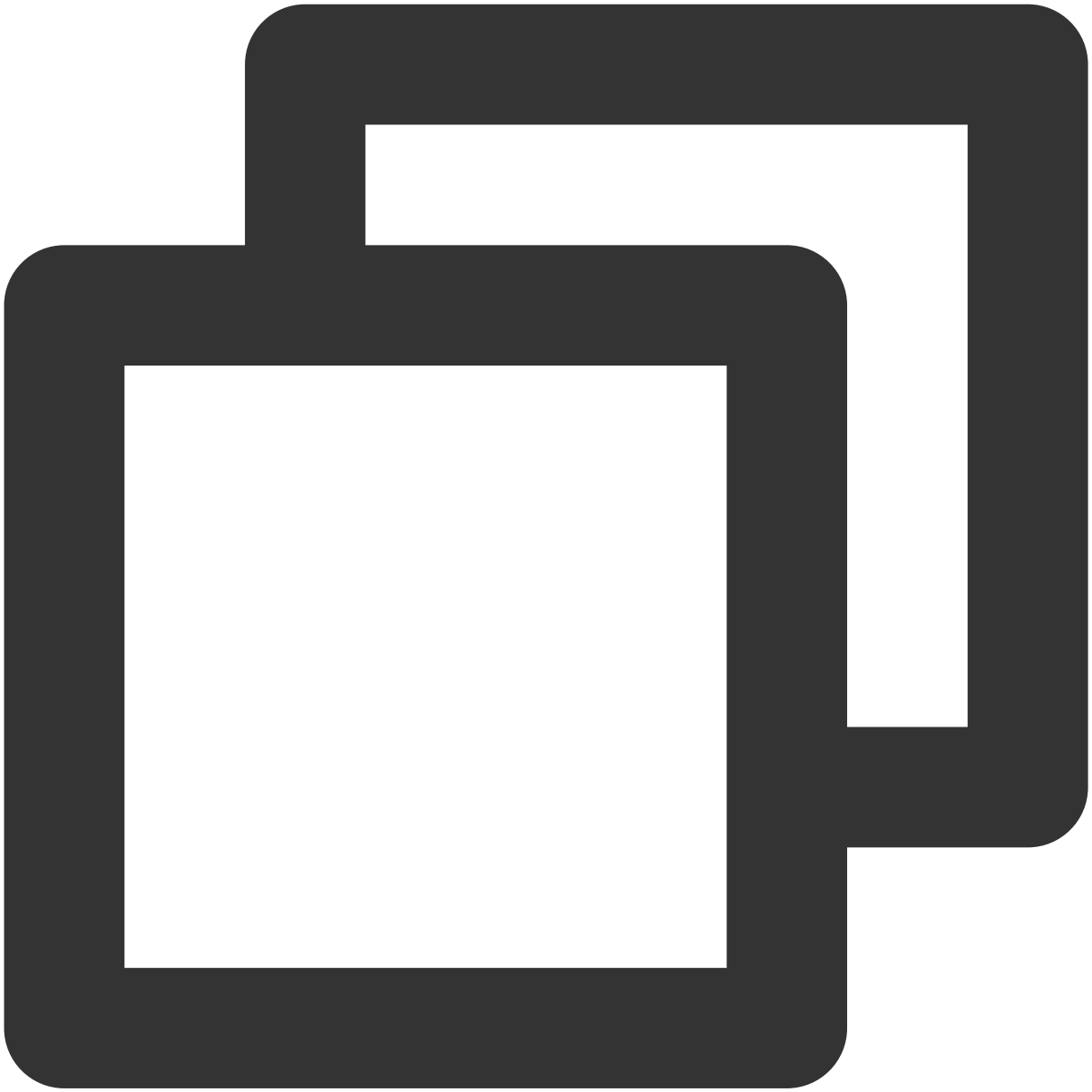
Other files: PDF, LRC, C, CPP, H, ASM, S, JAVA, ASP, BAT, BAS, PRG, CMD, RTF, TXT, LOG, XML, HTM, HTML.

The input file size cannot exceed 200 MB.

The number of pages in the input file cannot exceed 5,000.

Sample response

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```
Sync request URL
https://examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/example.ppt?sign=q-s
```

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Content Recognition
Image Tagging

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for image tagging.

API	Description
Image tagging	Recognizes tags in images stored in COS by using the persistent processing API.

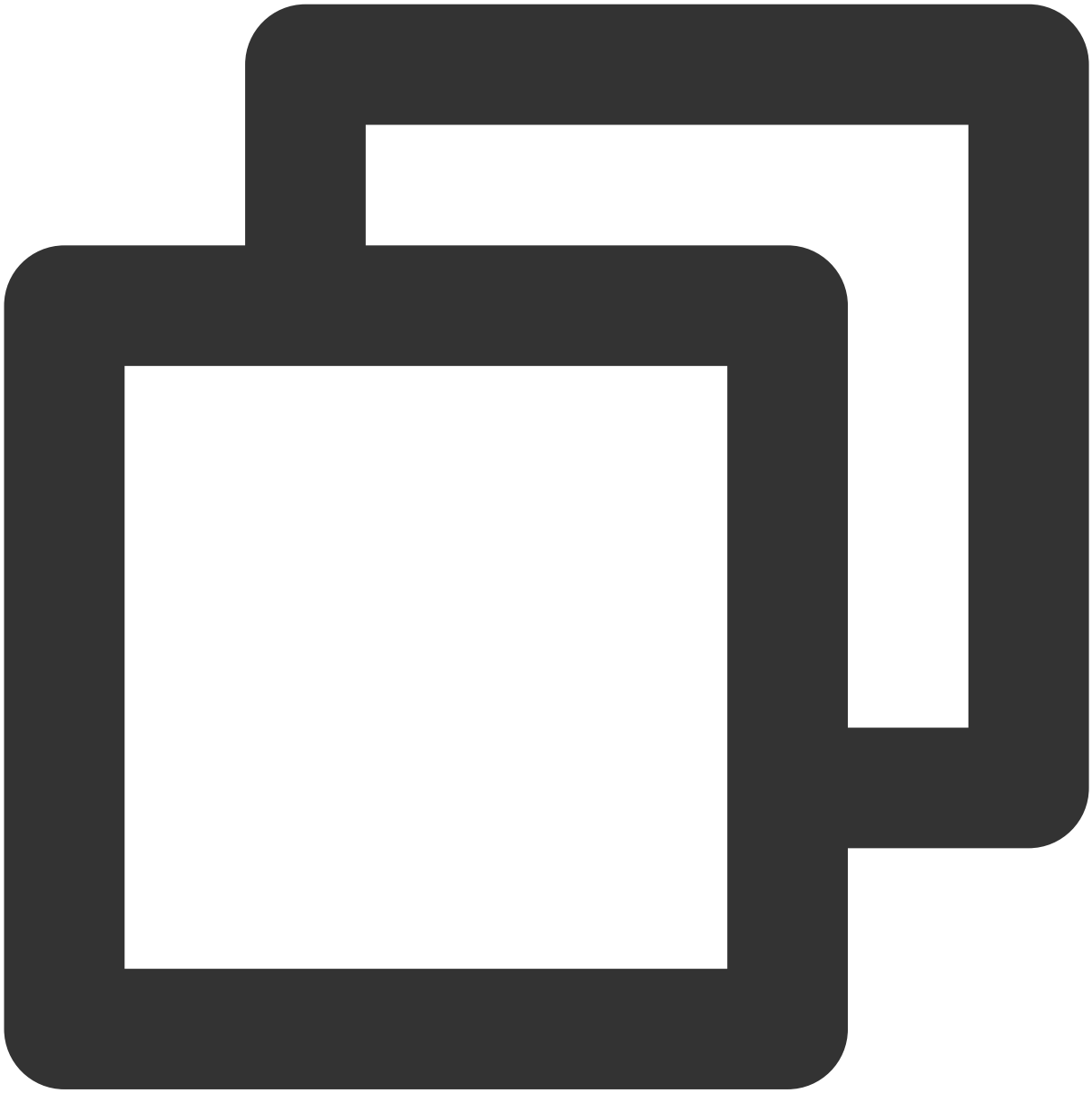
Image Tagging

Feature description

The image tagging feature recognizes tags in images stored in COS by using the persistent processing API and returns tags with a high confidence.

Sample code

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

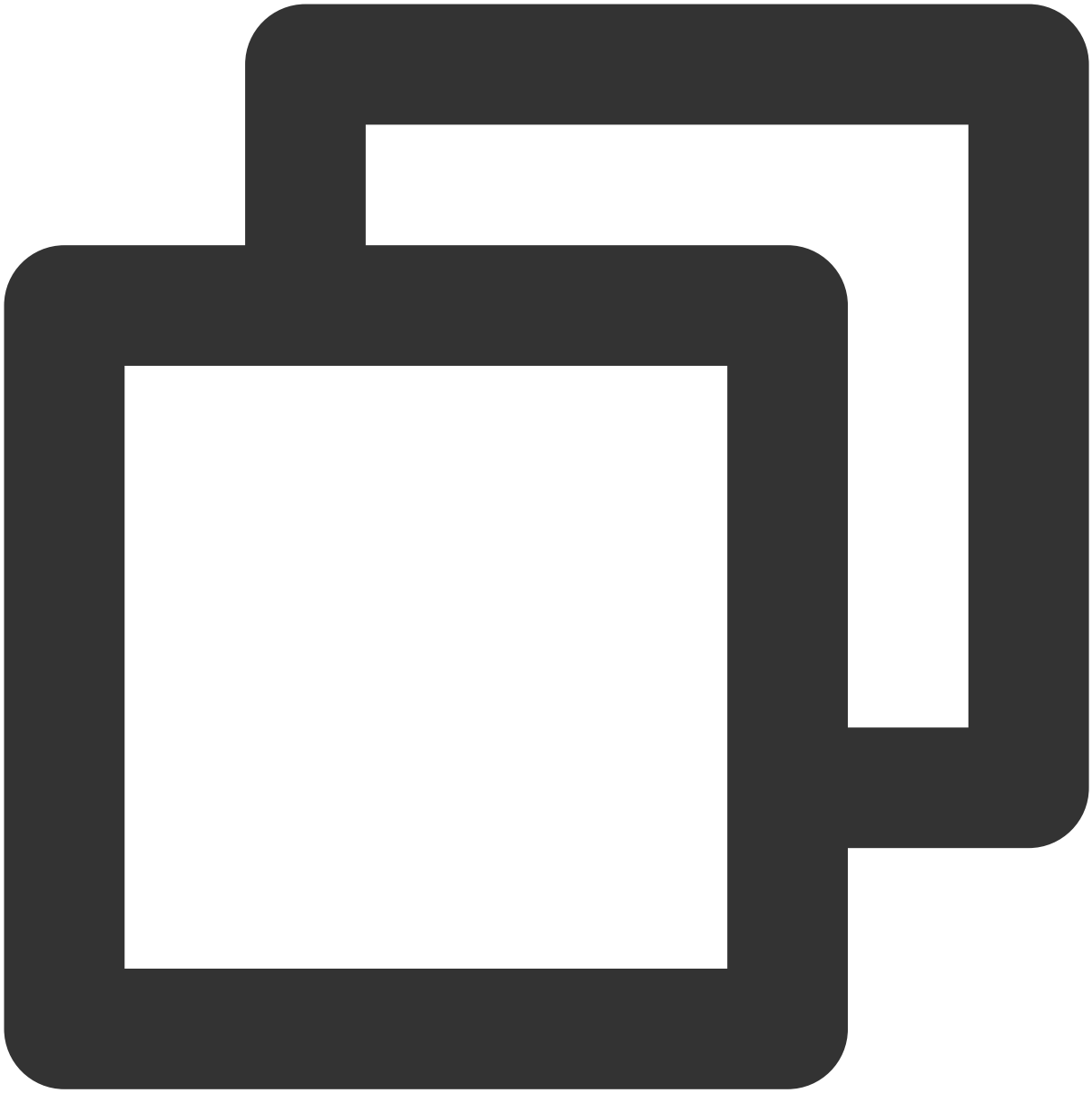
try {
        $result = $cosClient->DetectLabel(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
    (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Key] => exampleobject
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
            [Labels] => Array
            (
```

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```
                [0] => Array
                (
                    [Confidence] => 83
                    [Name] => Toy
                )

                [1] => Array
                (
                    [Confidence] => 77
                    [Name] => Stuffed toy
                )

                [2] => Array
                (
                    [Confidence] => 15
                    [Name] => Art
                )
            )
        )
)
```

Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
Labels	Array	Tag information	None

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Image QR Code

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for image QR codes.

API	Description
QR code recognition	Recognizes the location and content of valid QR codes in an image, outputs the text information (URL or text) contained in the QR codes, and pixelates the recognized QR codes.
QR code generation	Generates QR codes or barcodes based on the specified text information (URL or text).

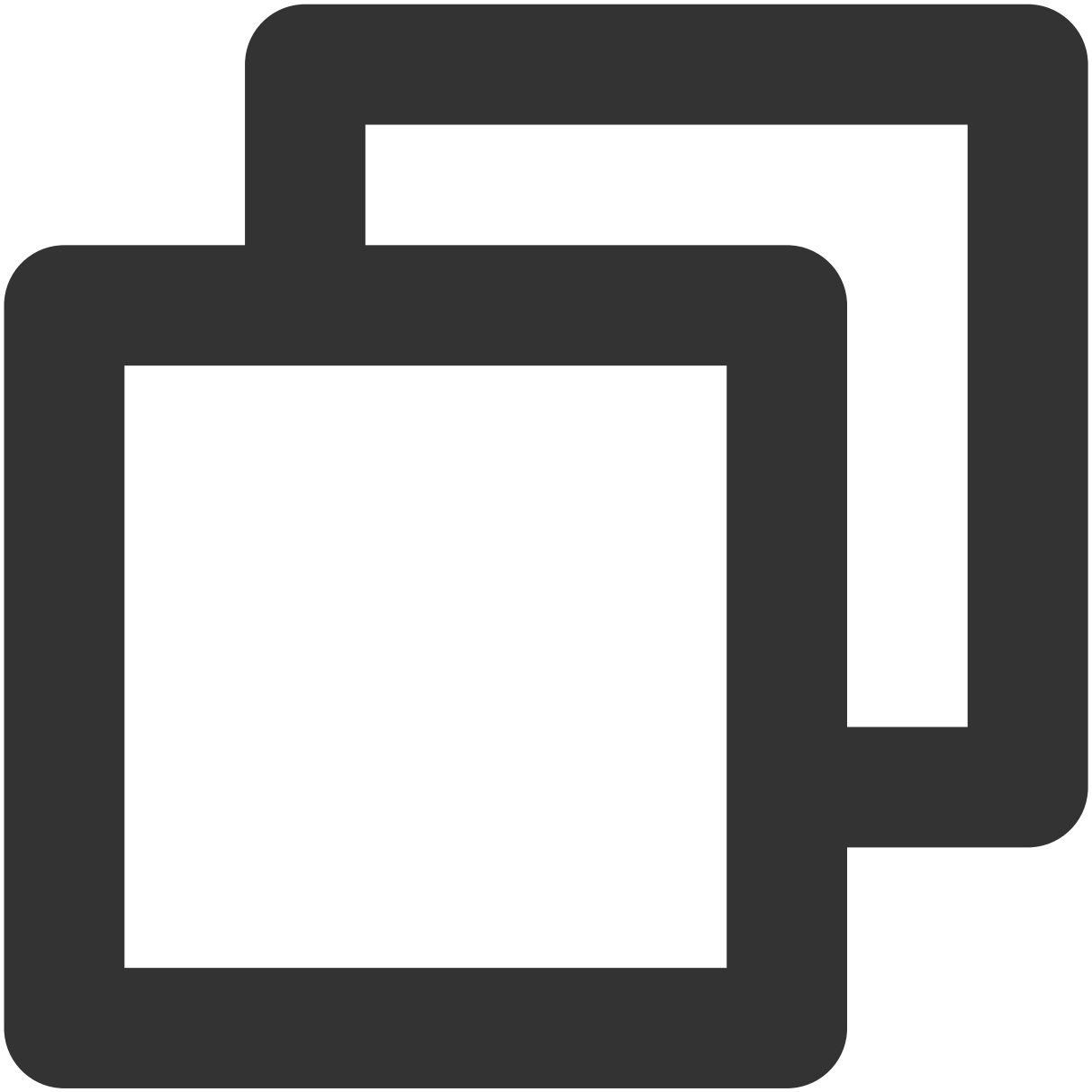
QR Code Recognition

Feature description

The QR code recognition feature recognizes the location and content of valid QR codes in an image, outputs the text information (URL or text) contained in the QR codes, and pixelates the recognized QR codes.

Sample request 1: Recognizing during upload

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

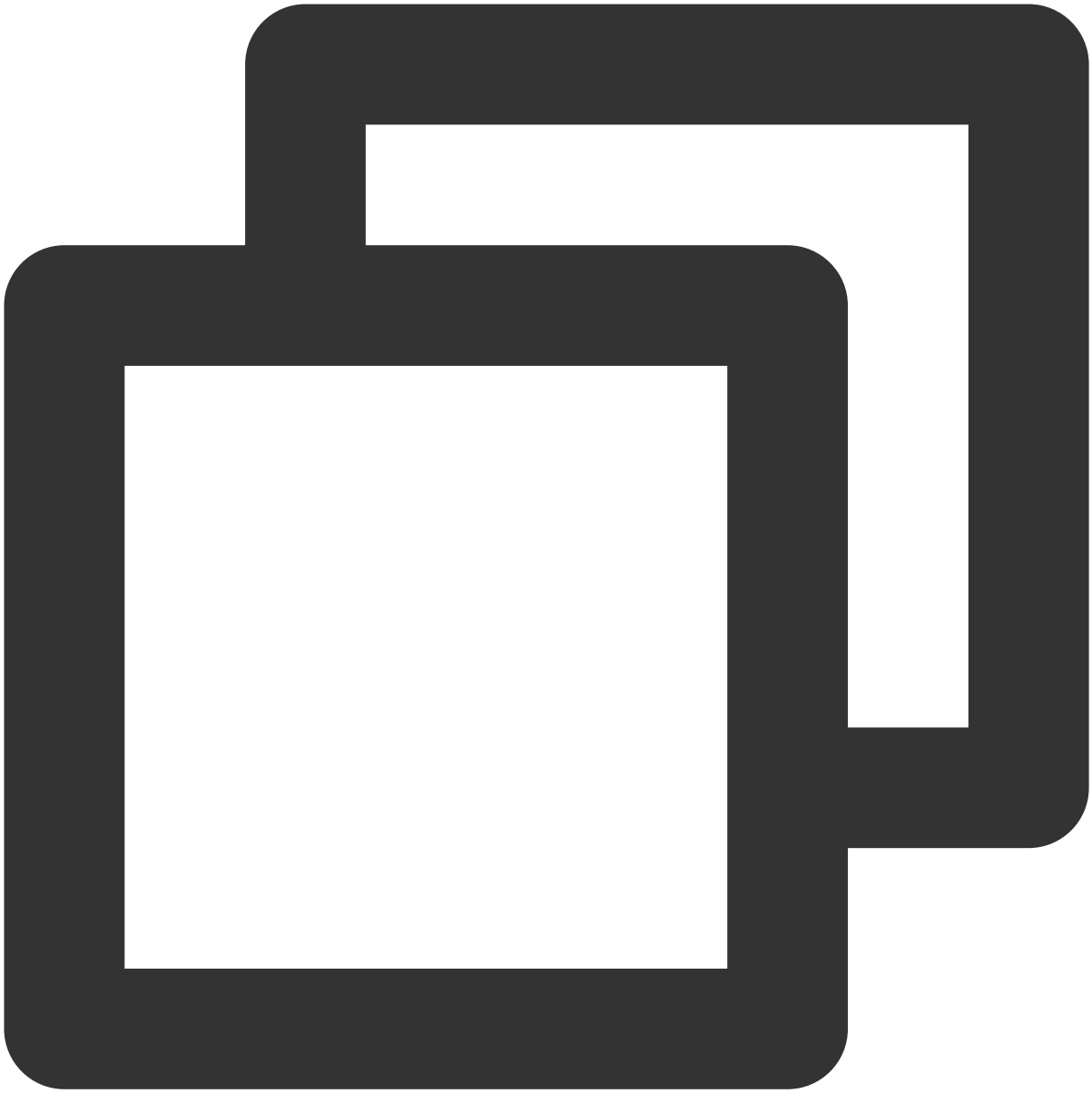
try {
        $imageQrcodeTemplate = new Qcloud\\Cos\\ImageParamTemplate\\ImageQrcodeTemp
        $imageQrcodeTemplate->setMode(0);// Pixelate the recognized QR code. Valid
        $picOperationsTemplate = new \\Qcloud\\Cos\\ImageParamTemplate\\PicOperatio
        $picOperationsTemplate->setIsPicInfo(1);// Set whether to return the input
        $picOperationsTemplate->addRule($imageQrcodeTemplate, "resultobject");// Se
        $result = $cosClient->putObject(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
        'Body' => fopen('path/to/localFile', 'rb'),
        'PicOperations' => $picOperationsTemplate->queryString(),// Generate parame
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes
Body	File/String	Uploaded content	Yes
PicOperations	Json/String	Persistent image processing information	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
    (
            [Body] =>
            [ETag] => "698d51a19d8a121ce581499d7b701668"
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [ContentLength] => 238186
            [Key] => exampleobject
            [Bucket] => examplebucket-1250000000
```

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```
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
            [Data] => Array
            (
                [OriginalInfo] => Array
                (
                    [Key] => exampleobject
                    [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.
                    [ETag] => "7037fb6fb4cca43b958a28789605e73d98088720"
                    [ImageInfo] => Array
                    (
                            [Format] => JPEG
                            [Width] => 600
                            [Height] => 500
                            [Quality] => 90
                            [Ave] => 0x46442e
                            [Orientation] => 0
                     )

                )
                [ProcessResults] => Array
                (
                    [Object] => Array
                    (
                        [0] => Array(
                            [Key] => resultobject
                            [Location] => examplebucket-1250000000.cos.ap-beijing.m
                            [Format] => JPEG
                            [Width] => 300
                            [Height] => 200
                            [Size] => 30000
                            [Quality] => 90
                            [CodeStatus] => 1
                            [QRcodeInfo] => Array
                            (
                                    [0] => Array
                                    (
                                            [CodeUrl] => xxxxxxxxxxxx
                                            [CodeLocation] => Array
                                            (
                                                    [Point] => Array
                                                    (
                                                            [0] => 100,100
                                                            [1] => 100,200
                                                            [2] => 200,200
                                                            [3] => 200,100
                                                    )
                                             )
```

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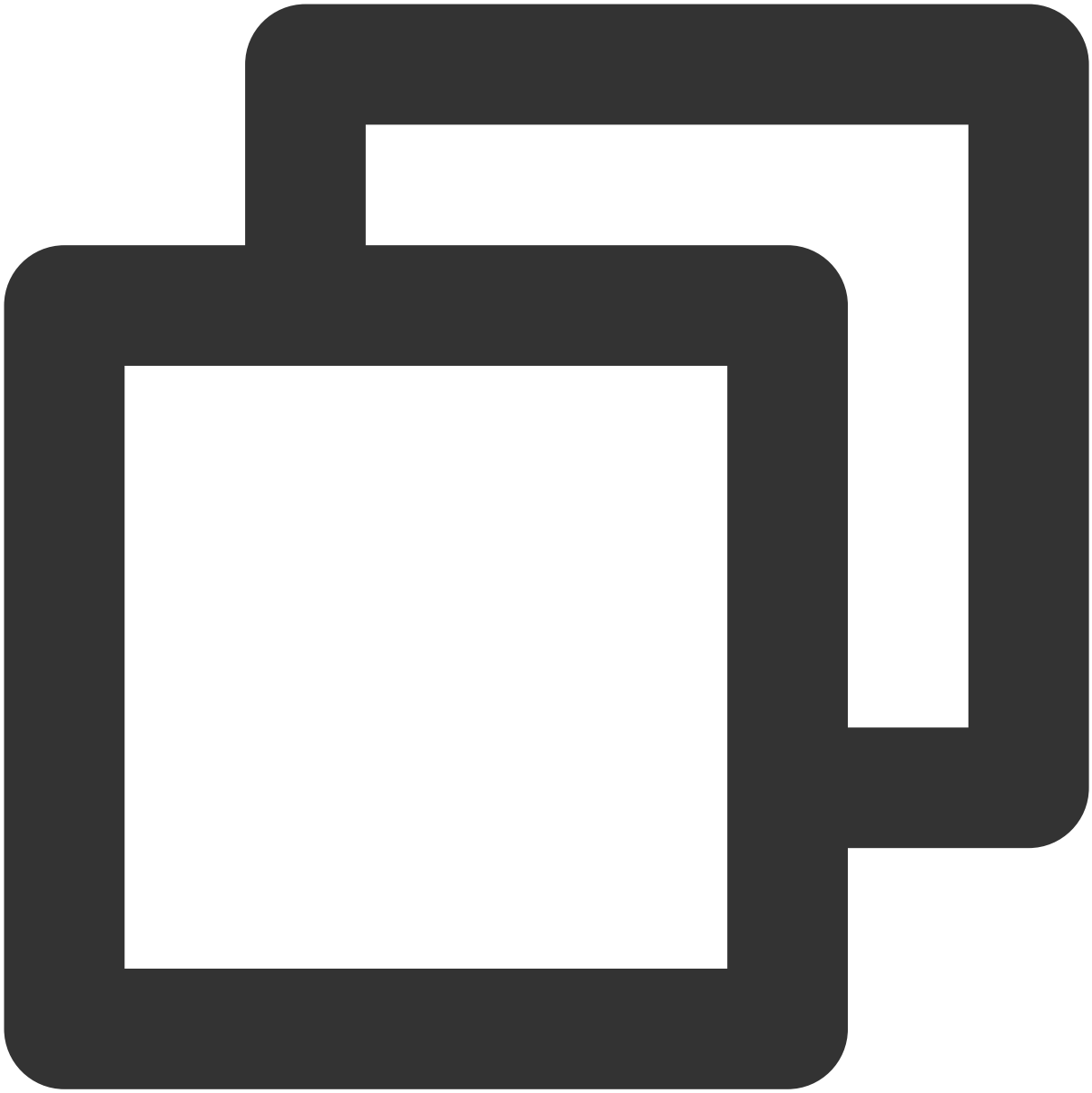
```
                                    )
                                )
                                [ETag] => "87c153bc2909aa0ba111ca126b675c510d36b817"
                            )
                        )
                    )
                )
            )
        )
    )
```

Response description

Parameter	Type	Description	Parent Node
Body	File/String	Response body	None
ETag	String	MD5 checksum of the file	None
RequestId	String	Request ID	None
ContentLength	Int	Length of the response body	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
Data	Array	Image processing result (QR code information)	None

Sample request 2: Recognizing during download

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

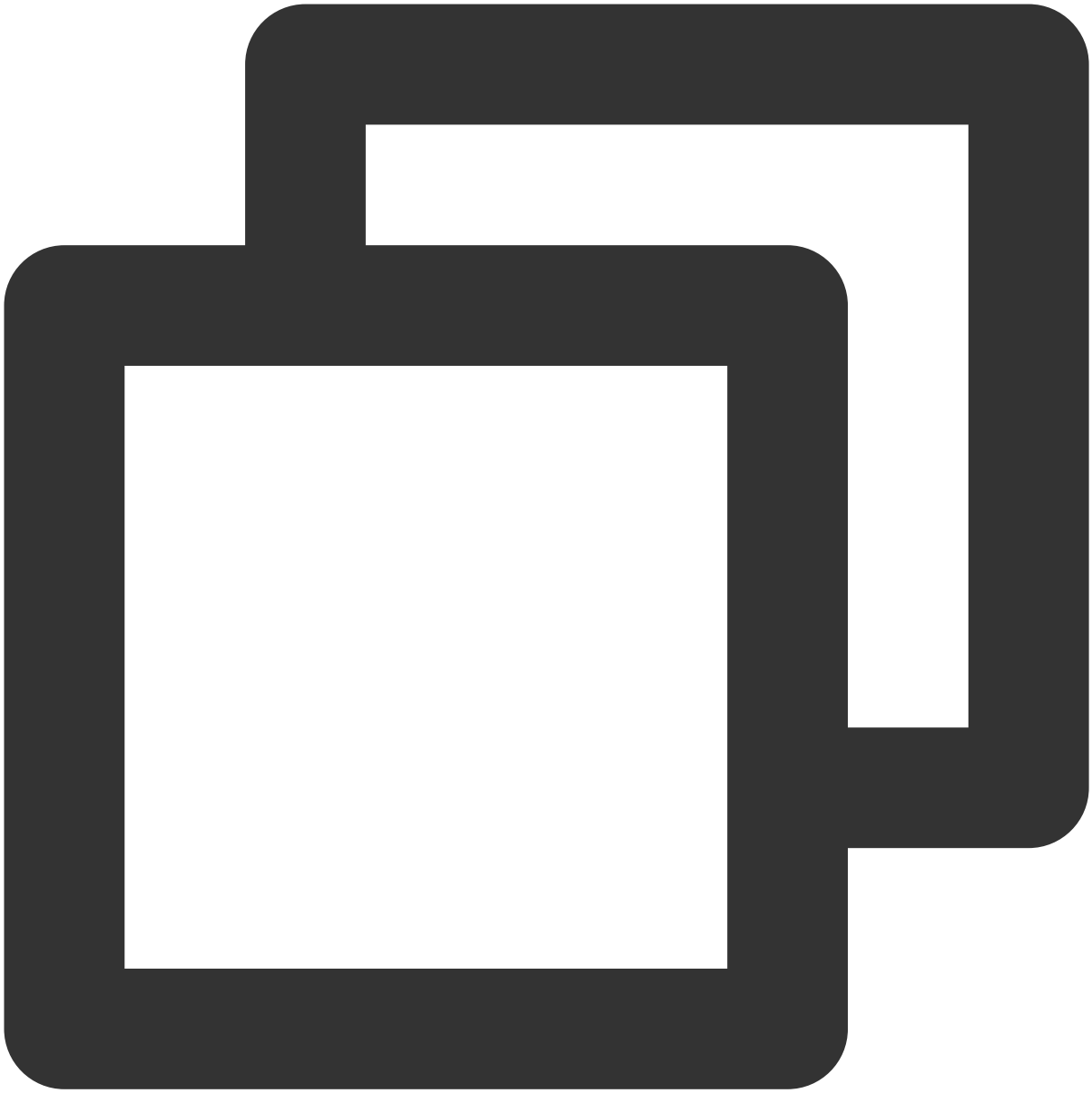
try {
        $result = $cosClient->Qrcode(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'exampleobject',
        'Cover' => 1,// QR code pixelation feature
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
Key	String	Object key, which is the unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	Yes
Cover	Int	Pixelates the recognized QR code. Valid values: 0 (no), 1 (yes). Default value: 0.	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
    (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [ContentLength] => 238186
            [Key] => exampleobject
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/exam
            [CodeStatus] => 1
```

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```
            [QRcodeInfo] => Array
            (
                    [0] => Array
                    (
                            [CodeUrl] => xxxxxxxxxxxx
                            [CodeLocation] => Array
                            (
                                    [Point] => Array
                                    (
                                            [0] => 100,100
                                            [1] => 100,200
                                            [2] => 200,200
                                            [3] => 200,100
                                    )
                             )
                    )
            )
            [ResultImage] =>

    )
)
```

Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
ContentLength	Int	Length of the response body	None
Key	String	Object key	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
CodeStatus	Int	Whether QR codes are recognized. 0: no; 1: yes.	None
QRcodeInfo	Array	Recognized QR code. There may be multiple ones.	None
ResultImage	String	Base64-encoded result image data, which will be returned if the request parameter `cover` is 1.	None

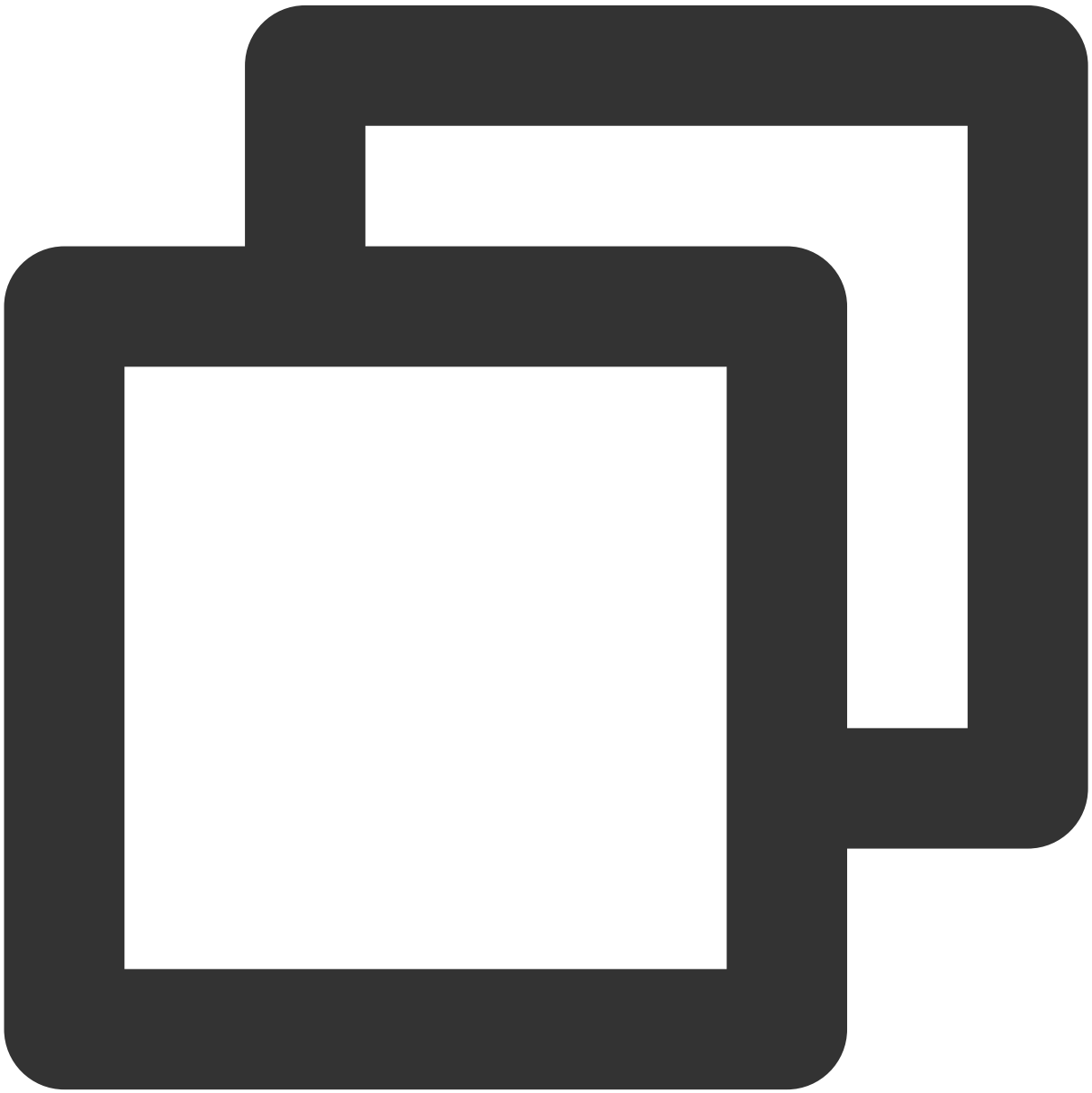
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QR Code Generation

Feature description

The QR code generation feature generates QR codes or barcodes based on the specified text information (URL or text).

Sample code



```
<?php
```

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```
require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));

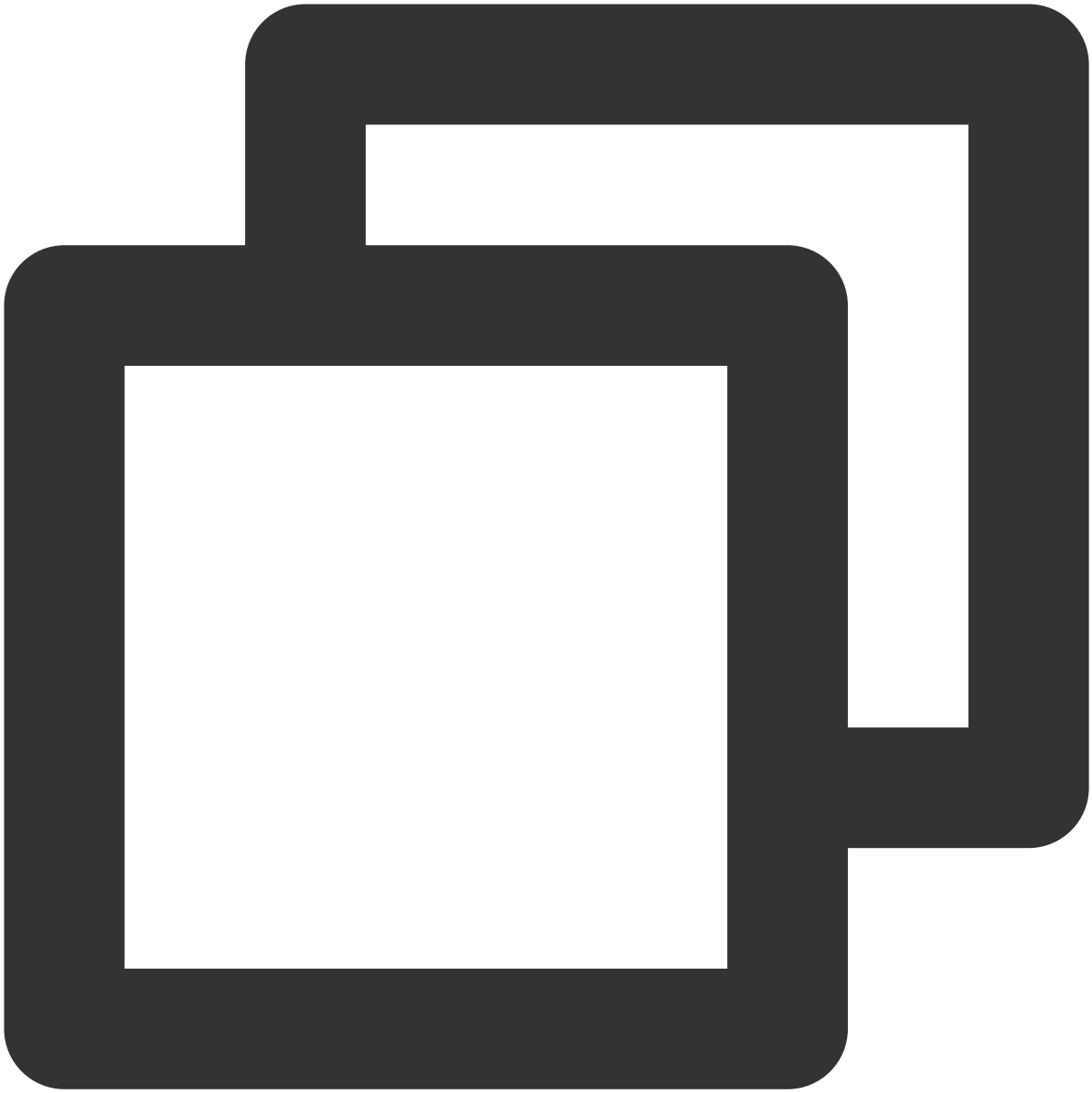
try {
        $result = $cosClient->QrcodeGenerate(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'QrcodeContent' => '<https://www.example.com>',// Recognizable QR code text
        'QrcodeMode' => 0 // Type of the QR code to be generated. Valid values: 0 (
        'QrcodeWidth' => '200',// Width of the QR code or barcode to be generated.
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID`	Yes
QrcodeContent	String	Recognizable QR code text information	Yes
QrcodeMode	Int	Type of the QR code to be generated. Valid values: 0 (QR code), 1 (barcode). Default value: 0.	Yes
QrcodeWidth	String	Width of the QR code or barcode to be generated. The height will be compressed proportionally.	Yes

Sample response

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```
Guzzle\\Service\\Resource\\Model Object
(
    [structure:protected] =>
    [data:protected] => Array
    (
            [RequestId] => NWQwOGRkNDdfMjJiMjU4NjRfNzVjXzEwNmVjY2M=
            [Bucket] => examplebucket-1250000000
            [Location] => examplebucket-1250000000.cos.ap-beijing.myqcloud.com/
            [ResultImage] =>
    )
)
```

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Response description

Parameter	Type	Description	Parent Node
RequestId	String	Request ID	None
Bucket	String	Bucket name in the format of `BucketName-APPID`	None
Location	String	Address of the requested resource	None
ResultImage	String	Base64-encoded result image data	None

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Job APIs
Animated Image Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting an animated image job.

API	Description
Submitting an animated image job	Submits an animated image job.

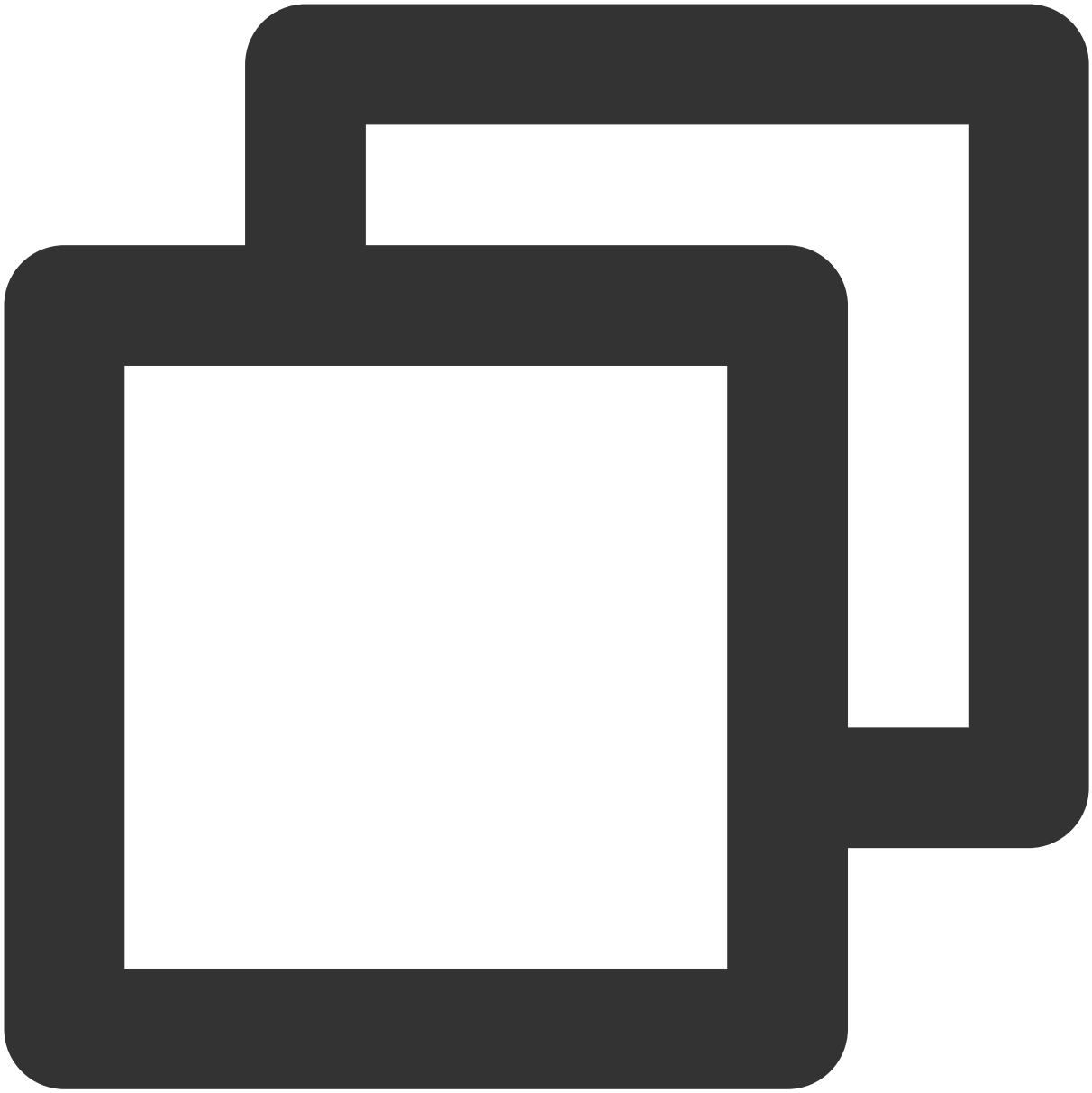
Submitting Animated Image Job

Feature description

This API is used to submit an animated image job.

Method prototype

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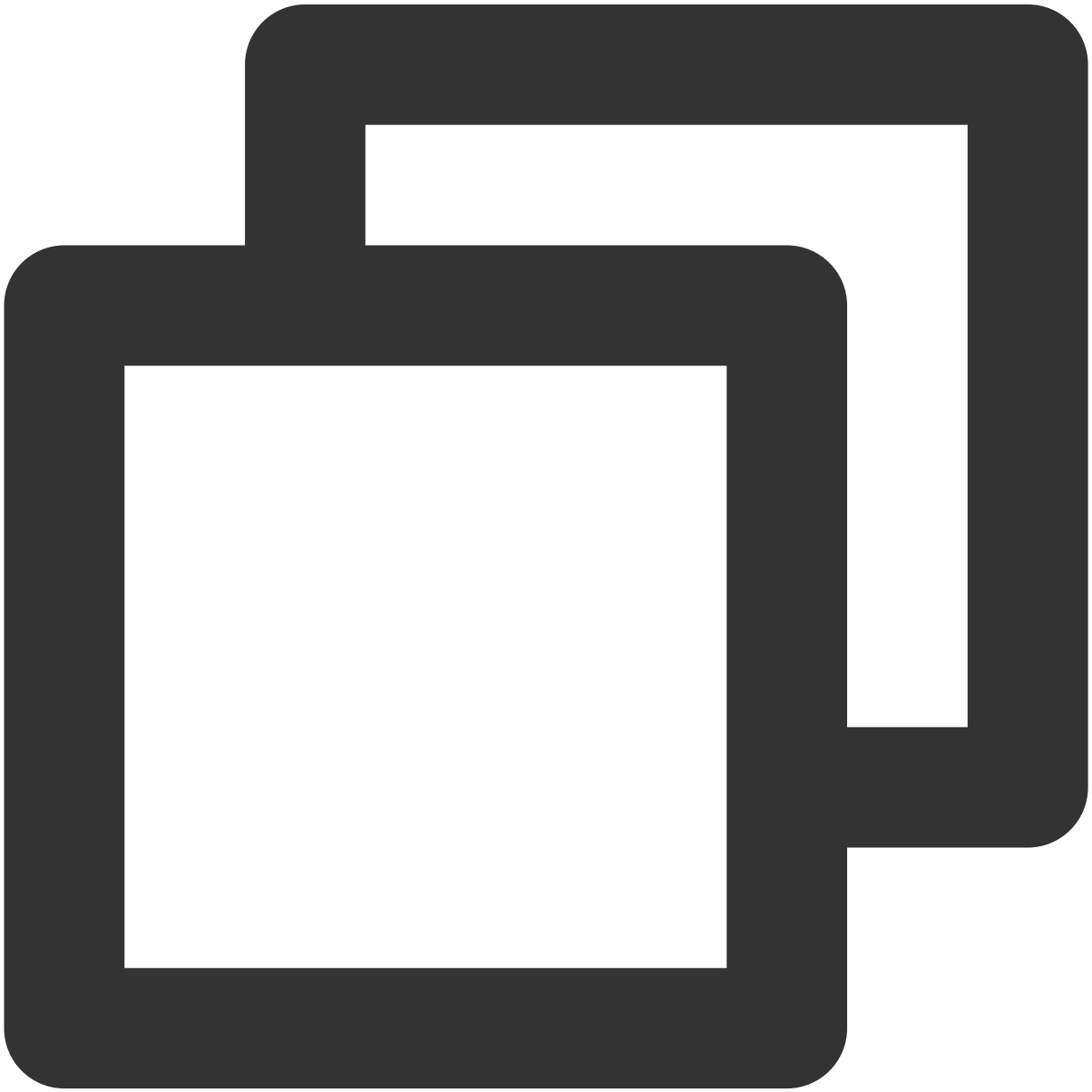


```
public Guzzle\\Service\\Resource\\Model createMediaAnimationJobs(array $args = arra
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

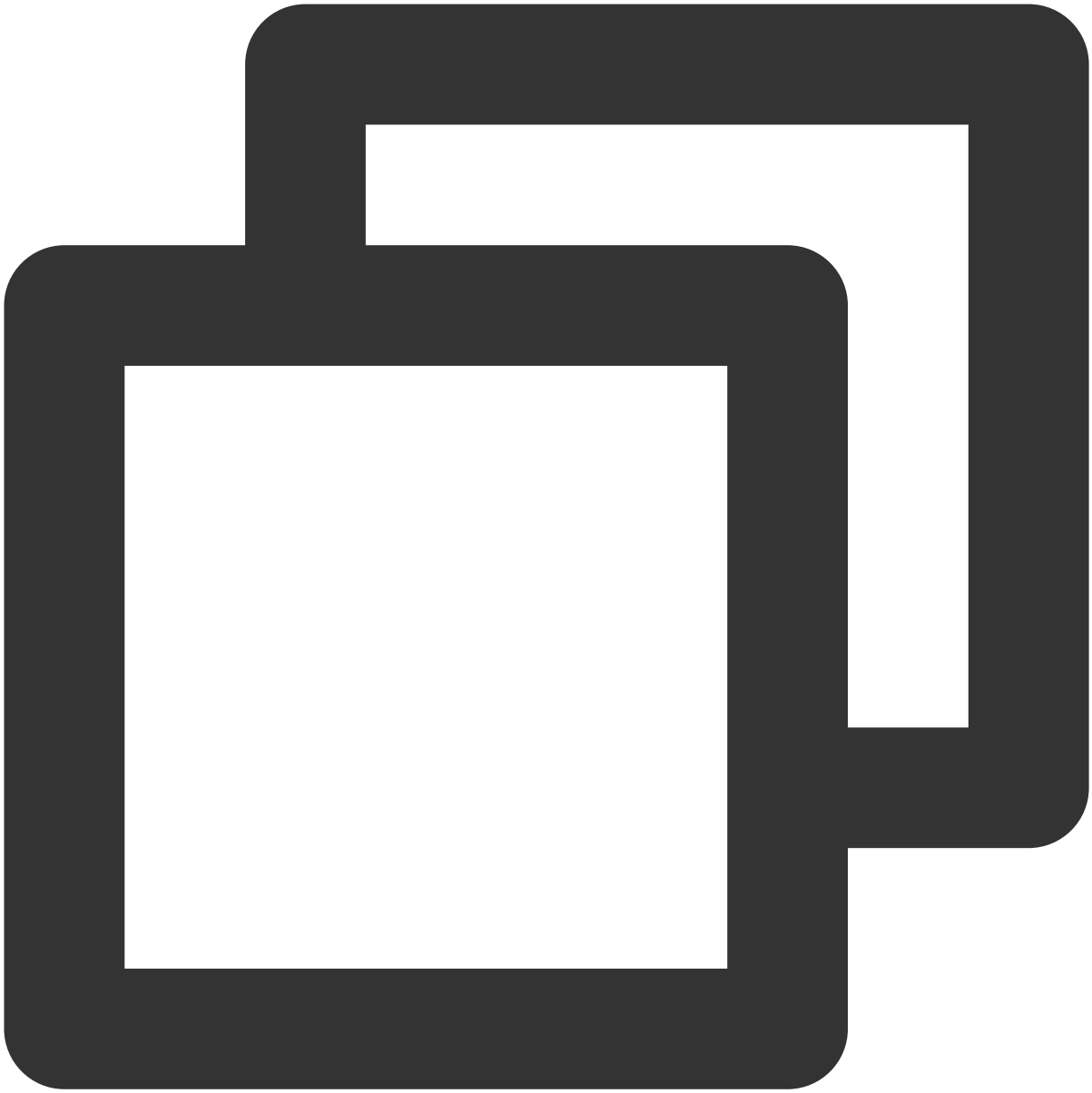
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaAnimationJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Animation',
        'QueueId' => 'p81e648af2aee49688xxxxxxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'TemplateId' => 't1de276cbdab16xxxxxxxxxxxxxxxxxxxx',
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'Animation.gif',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaAnimationJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Animation',
        'QueueId' => 'p81e648af2aee49688xxxxxxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'Animation' => array(
                'Container' => array(
                    'Format' => '',
                ),
                'Video' => array(
                    'Codec' => '',
                    'Width' => '',
                    'Height' => '',
                    'Fps' => '',
                    'AnimateOnlyKeepKeyFrame' => '',
                    'AnimateTimeIntervalOfFrame' => '',
                    'AnimateFramesPerSecond' => '',
                    'Quality' => '',
                ),
                'TimeInterval' => array(
                    'Start' => '',
                    'Duration' => '',
                ),
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'Animation.gif',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: Animation	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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Animation	Request.Operation	Job type parameter	Container	No
TemplateId	Request.Operation	Template ID	String	No

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Output	Request.Operation	Result output address	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

Note:

`TemplateId` is used first. If `TemplateId` is unavailable, `Animation` is used.

`Animation` has the following sub-nodes:

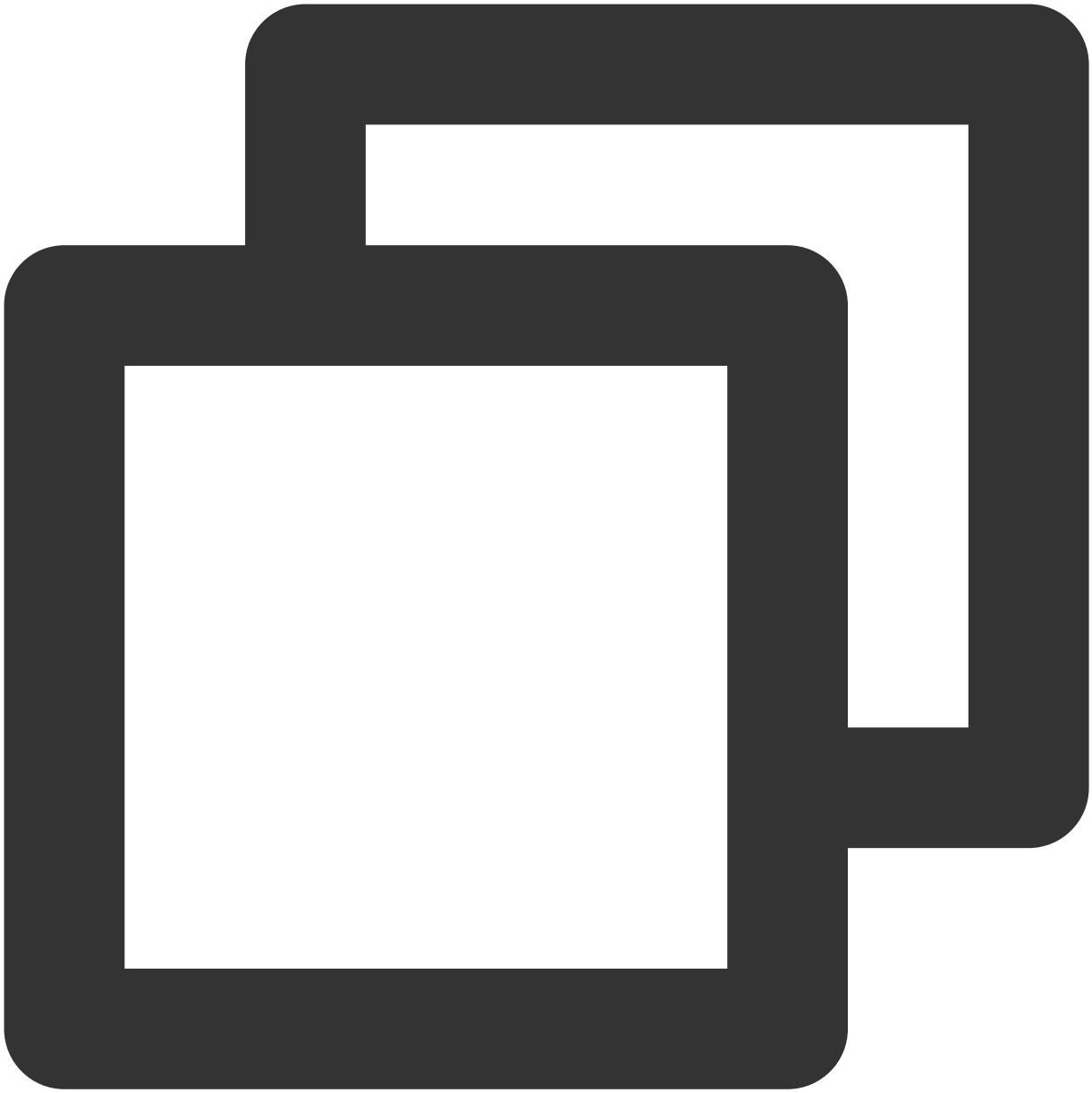
Node Name (Keyword)	Parent Node	Description	Type	Required
Container	Request.Operation.Animation	Same as `Request.Container` in the animated image template creation API CreateMediaTemplate.	Container	No
Video	Request.Operation.Animation	Same as `Request.Video` in the animated image template creation API CreateMediaTemplate.	Container	No
TimeInterval	Request.Operation.Animation	Same as `Request.TimeInterval` in the animated image template creation API CreateMediaTemplate.	Container	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	Result file name	String	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2MTQHOAIHDOIDUOIA7879ADJOIMDc2YTk=
    [ContentType] => application/xml
    [ContentLength] => 797
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-beijing.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-21T19:29:36+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-beijing
                        )

                    [JobId] => j5318zx9c890zx8c0z98c0fa6355174de
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => Animation.gif
                                    [Region] => ap-beijing
                                )

                            [TemplateId] => t1de276cbdz78xcz09xc80zx901af71
                            [TemplateName] => Animation-gif-1
                            [UserData] => xxx
                            [JobLevel] => 0
                        )

                    [QueueId] => p81e648af2aeez87c6z78xc7z98xc79ca86
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => Animation
                )
```

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```
            )

)
```

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Screenshot Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting a screenshot job.

API	Description
Submitting a screenshot job	Submits a screenshot job.

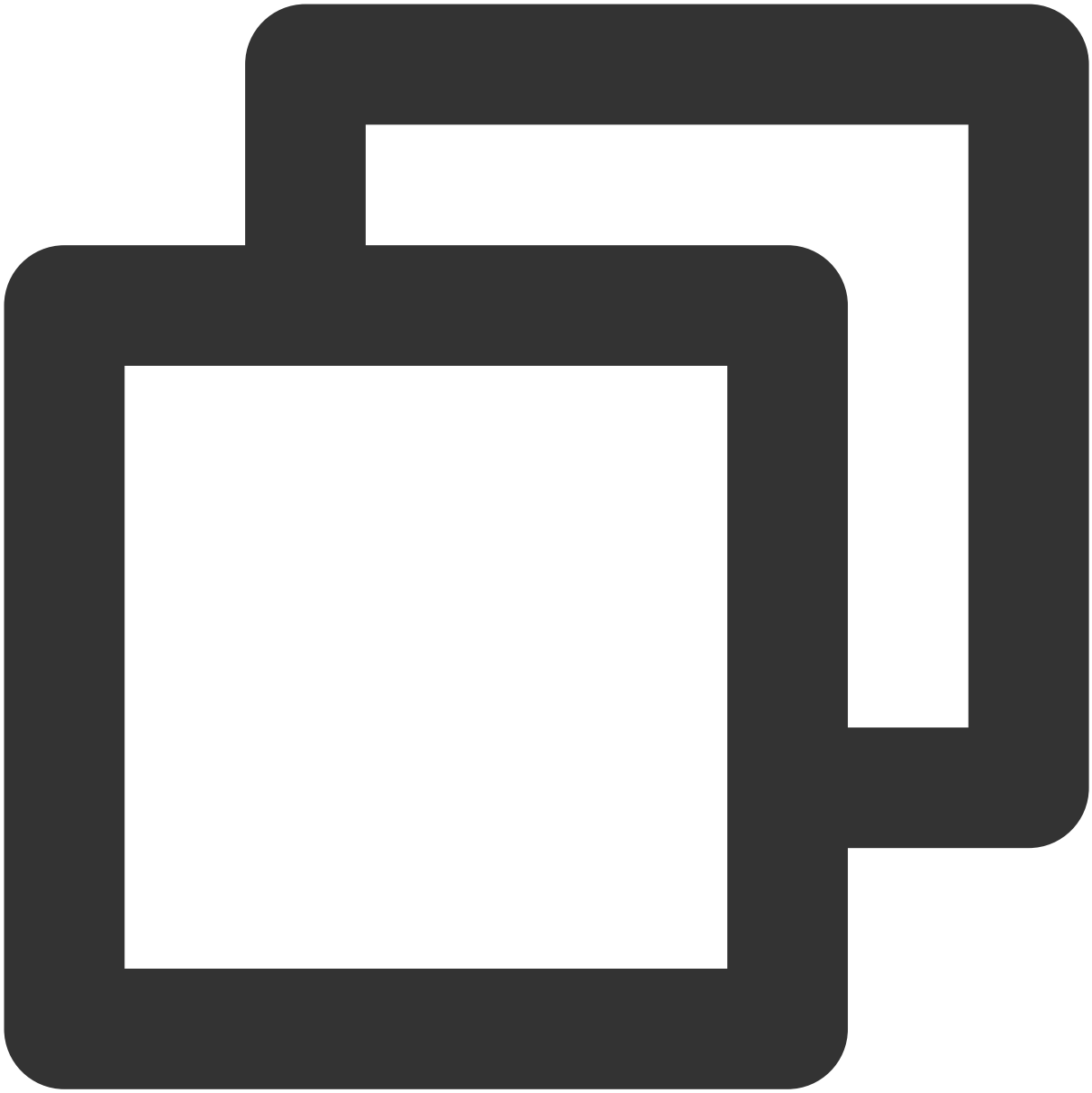
Submitting Screenshot Job

Feature description

This API is used to submit a screenshot job.

Method prototype

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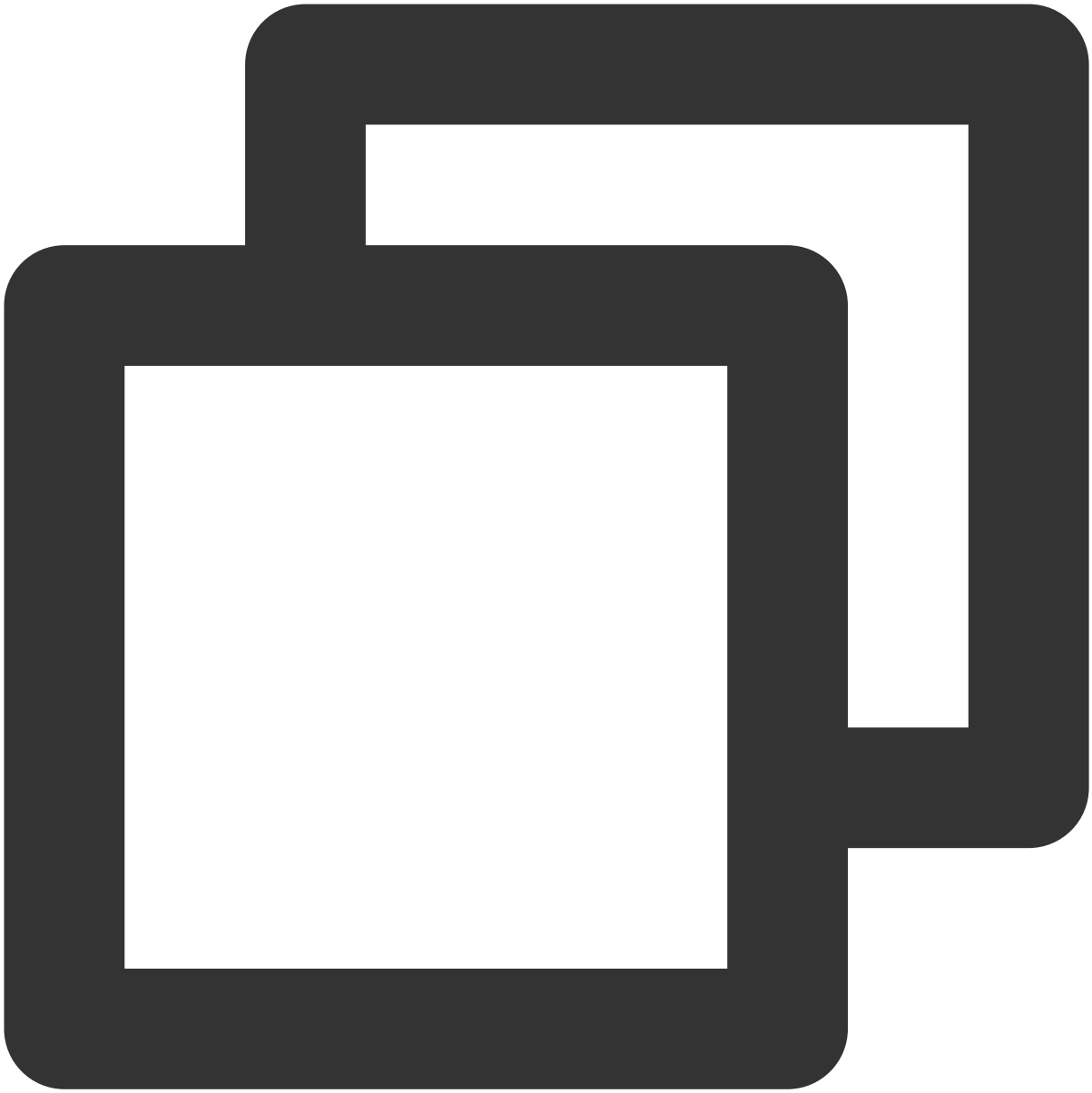


```
public Guzzle\\Service\\Resource\\Model createMediaSnapshotJobs(array $args = array
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

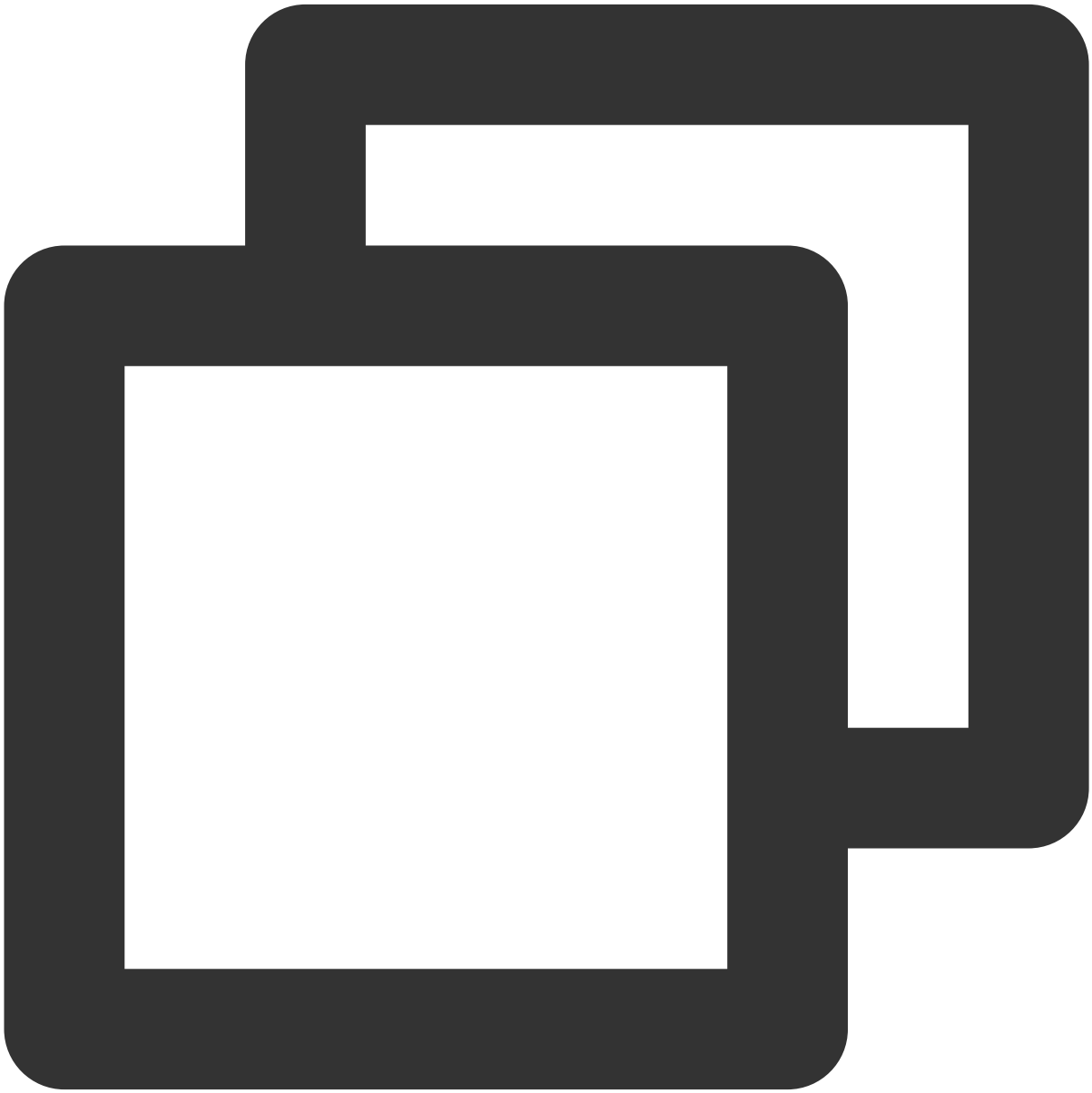
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaSnapshotJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Snapshot',
        'QueueId' => 'asdadadfafsdkjhfjghdfjg',
        'CallBack' => 'https://example.com/callback',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'TemplateId' => 'asdfafiahfiushdfisdhfuis',
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'snapshot-${Number}.jpg',
//                'SpriteObject' => 'sprite-${Number}.jpg',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
//        'CallBackMqConfig' => array(
//            'MqRegion' => '',
//            'MqMode' => '',
//            'MqName' => '',
//        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaSnapshotJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Snapshot',
        'QueueId' => 'asdadadfafsdkjhfjghdfjg',
        'CallBack' => 'https://example.com/callback',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'snapshot-${Number}.jpg',
            ),
            'Snapshot' => array(
                'Mode' => 'Average',
                'Start' => 3,
                'TimeInterval' => '',
                'Count' => 3,
                'Width' => '1280',
                'Height' => '',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: Snapshot	String	Yes
Input	Request	Information of the media file to be processed	Container	Yes

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Operation	Request	Operation rule	Container	Yes
QueueId	Request	Queue ID of the job	String	Yes
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Snapshot	Request.Operation	Job type parameter. Same as `Request.Snapshot` in the screenshot template creation API CreateMediaTemplate.	Container	No
TemplateId	Request.Operation	Template ID	String	No
Output	Request.Operation	Result output address	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	String	No

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		the priority. Valid values: `0`, `1`, `2`. Default value: `0`.		

Note:

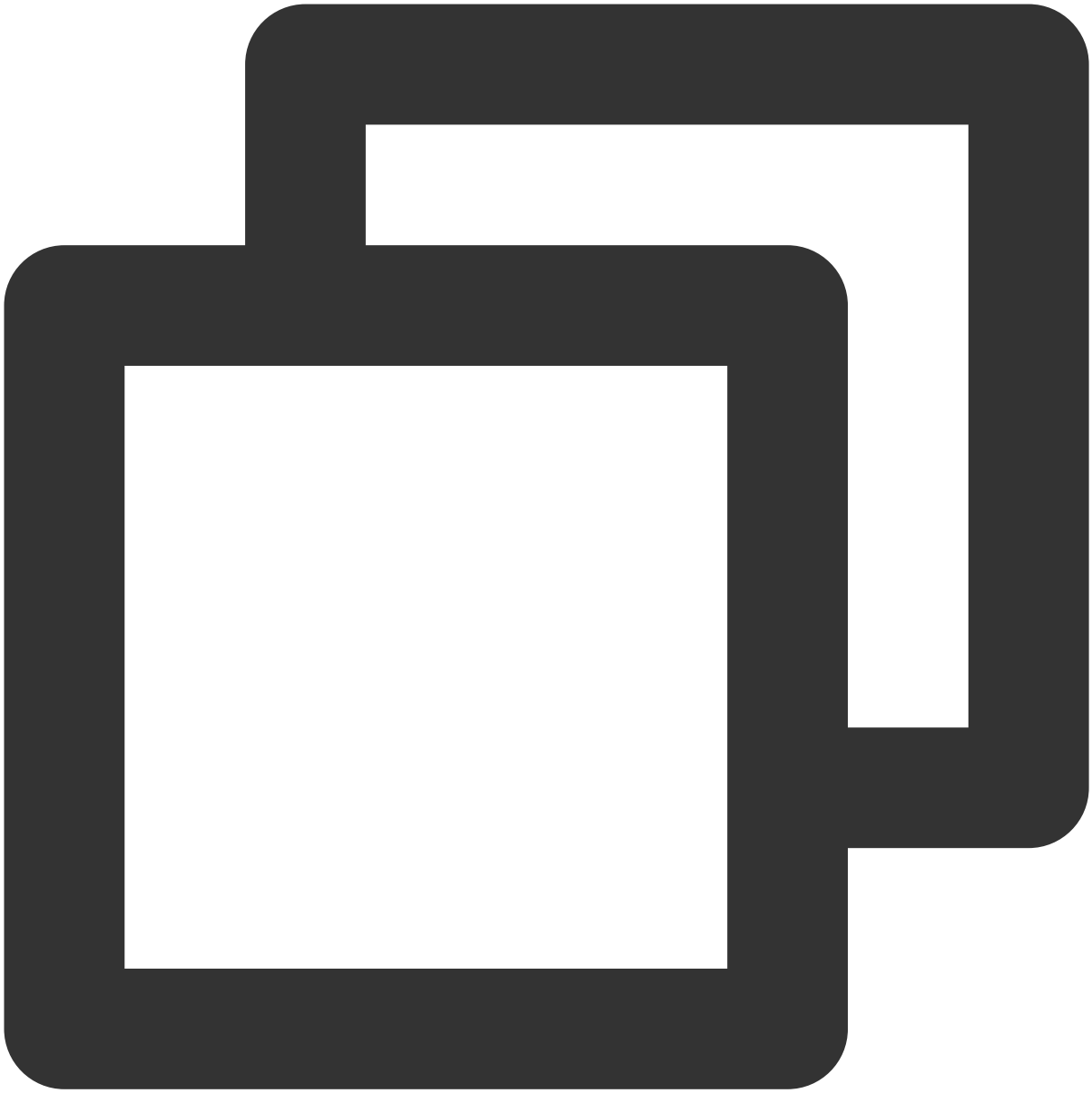
`TemplateId` is used first. If `TemplateId` is unavailable, `Snapshot` is used.

`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. **${Number} must be included in the filename.** For example, you can set `Object` to `snapshot-${Number}.jpg`.	String	No
SpriteObject	Request.Operation.Output	Image sprite name. **${Number} must be included in the filename.** For example, you can set `sprite-${Number}.jpg`. Only the .jpg format is supported.	String	No

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2MTNkYAHDUIAHDRfNjQ0OF8yMGI4MjQ=
    [ContentType] => application/xml
    [ContentLength] => 829
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-beijing.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-21T19:19:25+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-beijing
                        )

                    [JobId] => je6dcd3d6a80d98a09ds8ac4214b9b
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => snapshot-${Number}.jpg
                                    [Region] => ap-beijing
                                    [SpriteObject] =>
                                )

                            [TemplateId] => t0778zc908zc908z0c8z0adcffd54a
                            [TemplateName] => snapshot_1280*720_3
                            [UserData] => xxx
                            [JobLevel] => 0
                        )

                    [QueueId] => p81e648afz7zc08c0z8xc09e086
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => Snapshot
                )
```

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```
            )

)
```

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Transcoding Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting a transcoding job.

API	Description
Submitting transcoding job	Submits transcoding job

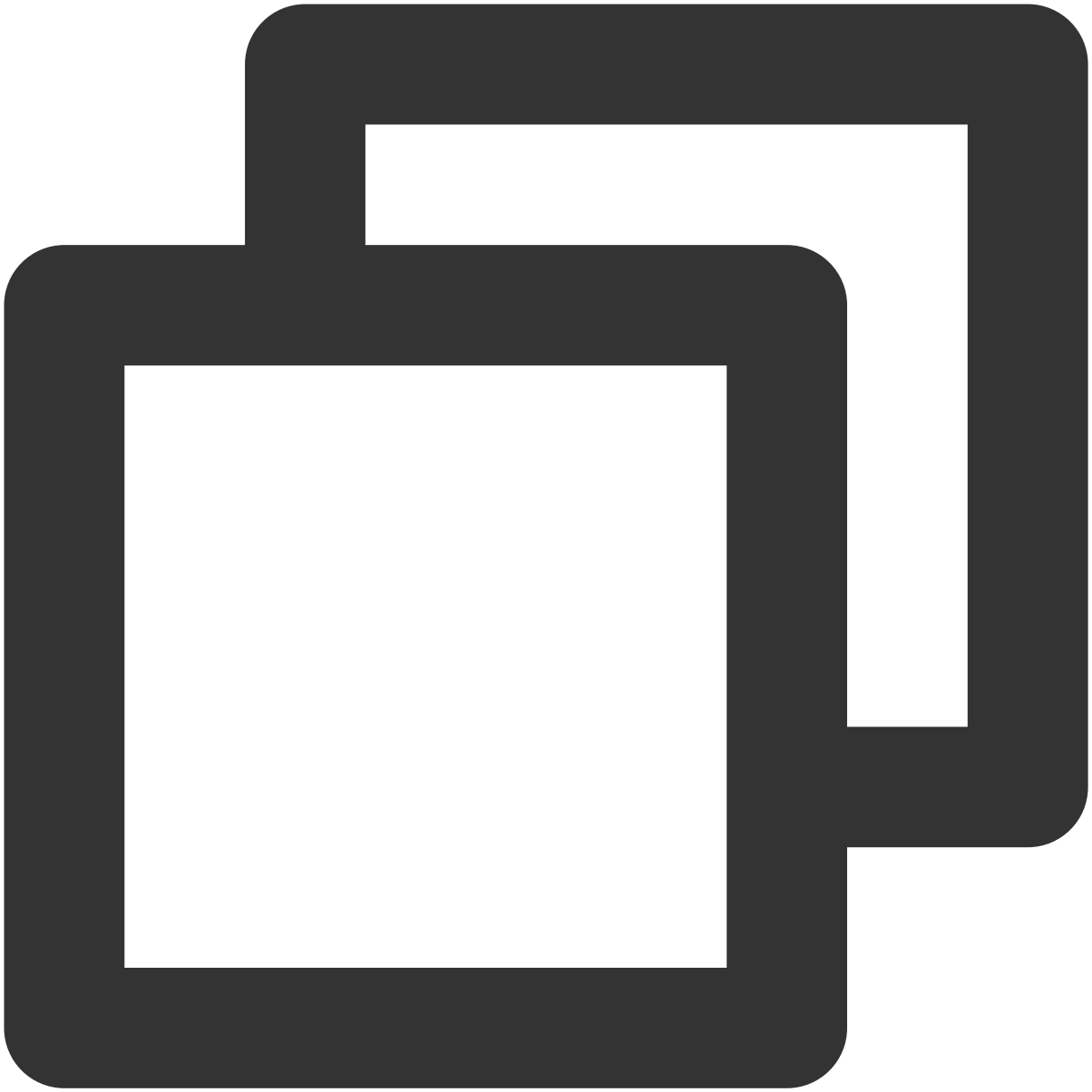
Submitting Transcoding Job

Feature description

Submitting a Transcoding Task

Method prototype

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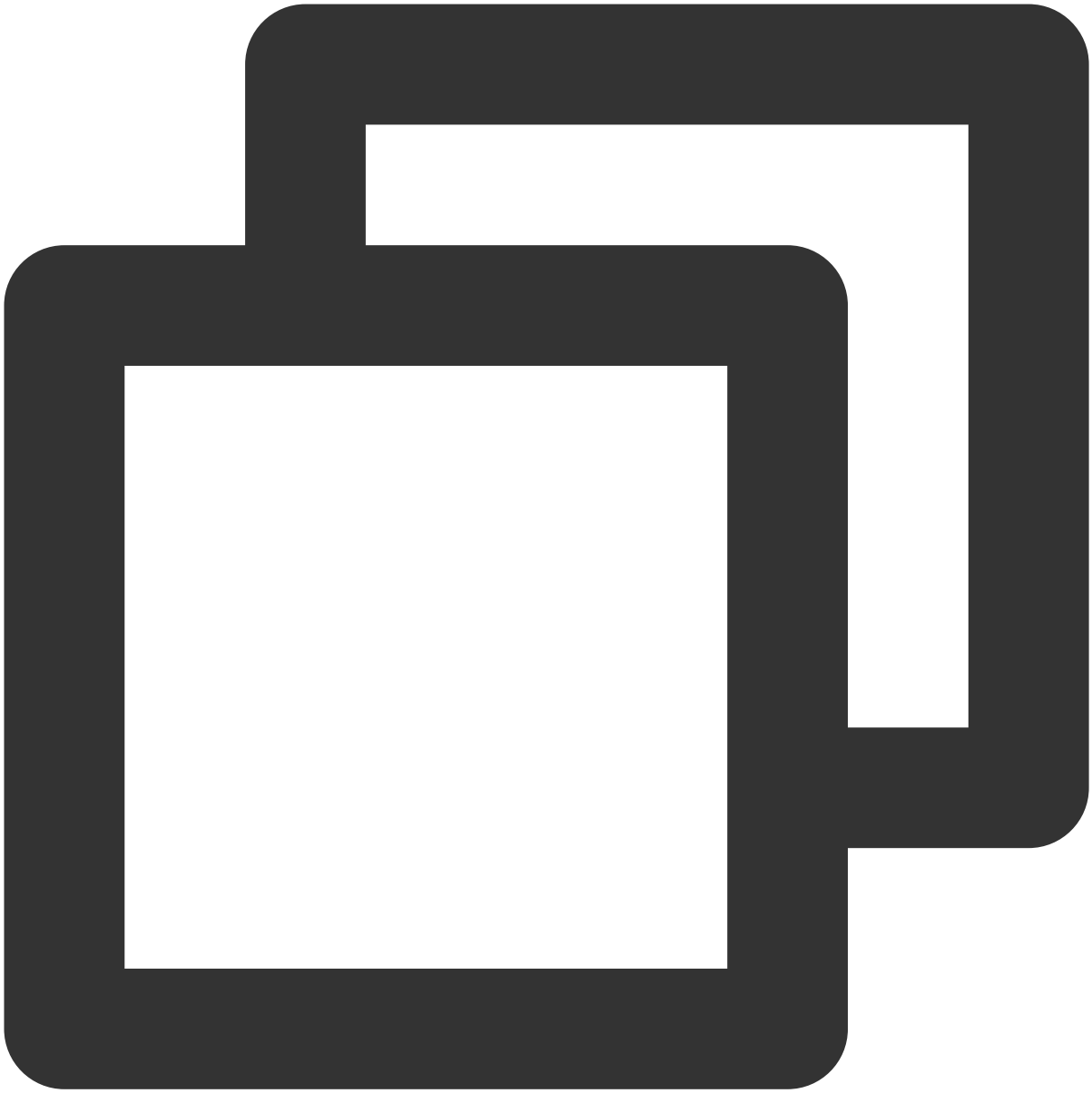


```
public Guzzle\\Service\\Resource\\Model createMediaTranscodeJobs(array $args = arra
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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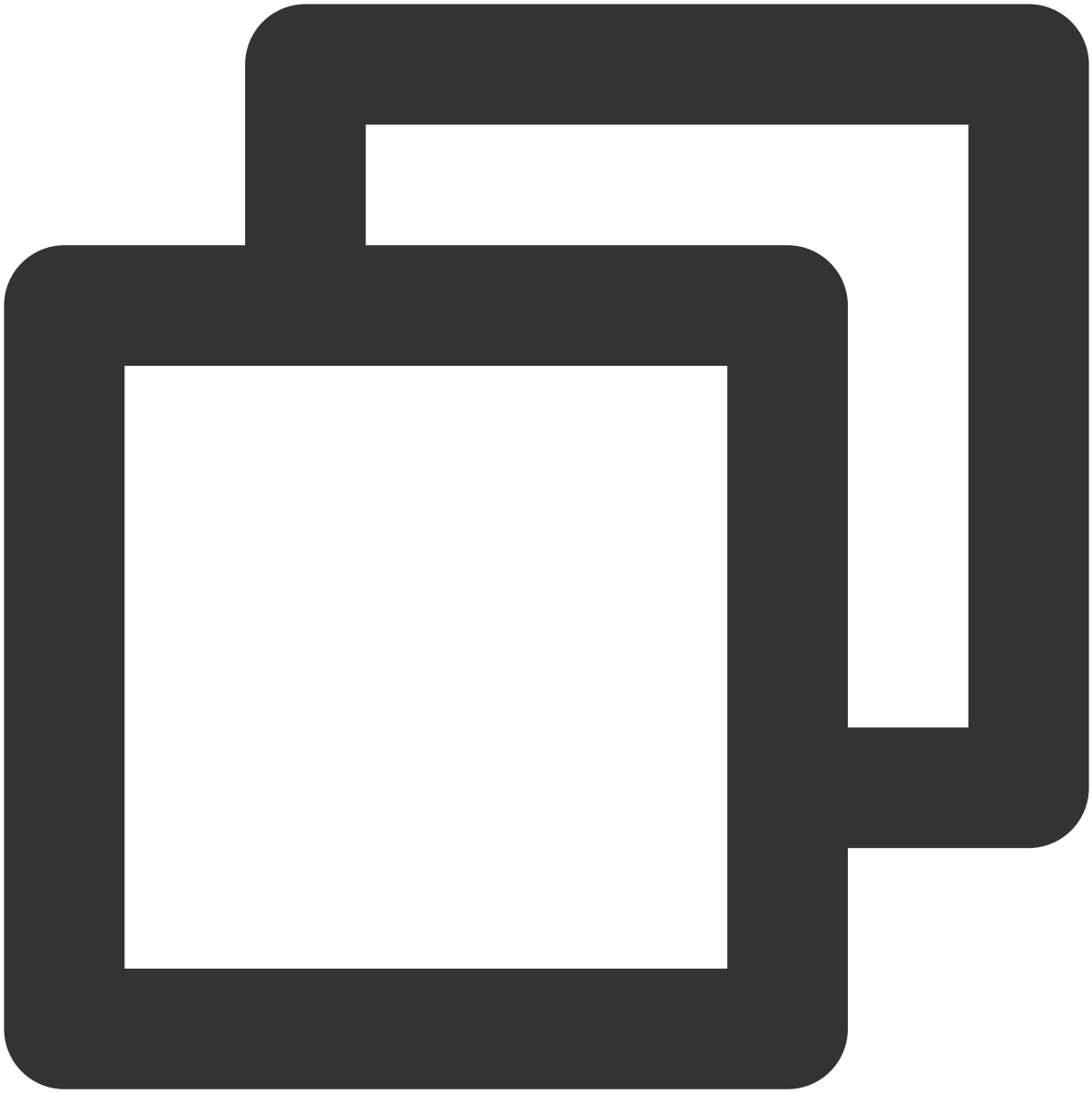
```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaTranscodeJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Transcode',
        'QueueId' => 'paaf4fce5521a40888a3034a5de80f6ca',
        'Input' => array(
            'Object' => 'example.mp4'
        ),
        'Operation' => array(
            'TemplateId' => 't04e1ab86554984f1aa17c062fbf6c007c',
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'video02.mp4',
            ),
            'Watermark' => array(
                array(
                    'Type' => 'Text',
                    'LocMode' => 'Absolute',
                    'Dx' => '64',
                    'Dy' => '64',
                    'Pos' => 'TopRight',
                    'Text' => array(
                        'Text' => 'The first watermark',
                        'FontSize' => '30',
                        'FontType' => 'simfang.ttf',
                        'FontColor' => '#99ff00',
                        'Transparency' => '100', // Opacity
                     ),
                ),
                array(
                    'Type' => 'Text',
                    'LocMode' => 'Absolute',
                    'Dx' => '64',
                    'Dy' => '64',
                    'Pos' => 'TopLeft',
                    'Text' => array(
                        'Text' => 'The second watermark',
                        'FontSize' => '30',
                        'FontType' => 'simfang.ttf',
                        'FontColor' => '#99ff00',
                        'Transparency' => '100', // Opacity
```

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```
                    ),
                ),
            ),
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol header, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaTranscodeJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Transcode',
        'QueueId' => 'asdadadfafsdkjhfjghdfjg',
        'CallBack' => 'https://example.com/callback',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'video01.mkv',
            ),
            'Transcode' => array(
                'Container' => array(
                    'Format' => 'mp4'
                ),
                'Video' => array(
                    'Codec' => 'H.264',
                    'Profile' => 'high',
                    'Bitrate' => '1000',
                    'Preset' => 'medium',
                    'Width' => '1280',
                    'Fps' => '30',
                ),
                'Audio' => array(
                    'Codec' => 'aac',
                    'Samplerate' => '44100',
                    'Bitrate' => '128',
                    'Channels' => '4',
                ),
                'TransConfig' => array(
                    'AdjDarMethod' => 'scale',
                    'IsCheckReso' => 'false',
                    'ResoAdjMethod' => '1',
                ),
                'TimeInterval' => array(
                    'Start' => '0',
                    'Duration' => '60',
                ),
```

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```
            ),
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: Transcode	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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

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`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TemplateId	Request.Operation	Template ID	String	No
Transcode	Request.Operation	Transcoding template parameter	Container	No
WatermarkTemplateId	Request.Operation	Watermark template ID. Multiple watermark template IDs can be passed in.	String	No
Watermark	Request.Operation	Watermark template parameter, which is the same as `Request.Watermark` in the watermark template creation API CreateMediaTemplate.	Container	No
RemoveWatermark	Request.Operation	Whether to remove the watermark. This parameter is not supported for H.265 currently.	Container	No
DigitalWatermark	Request.Operation	Specifies the digital watermark parameter	Container	No
Output	Request.Operation	Result output address	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

Note:

For the transcoding parameter, `TemplateId` is used first, and if `TemplateId` is unavailable, `Transcode` is used. For the watermark parameter, `WatermarkTemplateId` or `Watermark` can be used for configuration, and `WatermarkTemplateId` is used first.

`Transcode` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required

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TimeInterval	Request.Operation.Transcode	Same as `Request.TimeInterval` in the transcoding template creation API CreateMediaTemplate.	Container	No
Container	Request.Operation.Transcode	Same as `Request.Container` in the transcoding template creation API CreateMediaTemplate.	Container	No
Video	Request.Operation.Transcode	Same as `Request.Video` in the transcoding template creation API CreateMediaTemplate.	Container	No
Audio	Request.Operation.Transcode	Same as `Request.Audio` in the transcoding template creation API CreateMediaTemplate.	Container	No
TransConfig	Request.Operation.Transcode	Same as `Request.TransConfig` in the transcoding template creation API CreateMediaTemplate.	Container	No
AudioMix	Request.Operation.Transcode	Audio mix parameter as described in Structure.	Container array	No

`RemoveWatermark` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Dx	Request.Operation.RemoveWatermark	X-axis offset of the top-left corner origin. Value range: [1, 4096]	string	Yes
Dy	Request.Operation.RemoveWatermark	Y-axis offset of the top-left corner origin. Value range: [1, 4096]	string	Yes
Width	Request.Operation.RemoveWatermark	Width. Value range: [1, 4096]	string	Yes
Height	Request.Operation.RemoveWatermark	Height. Value range: [1,	string	Yes

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		4096]		

`DigitalWatermark` has the following sub-nodes:

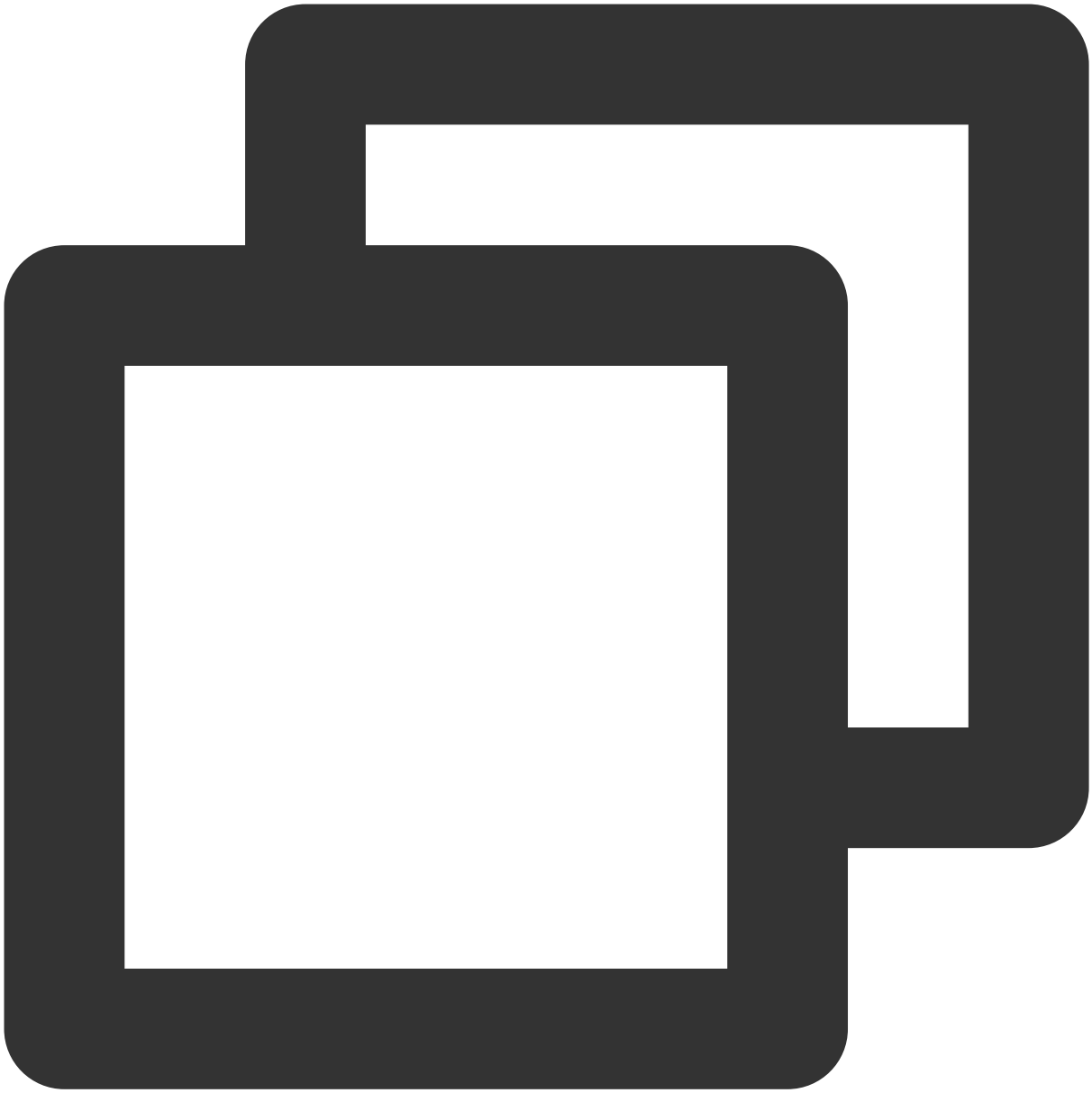
Node Name (Keyword)	Parent Node	Description	Type	Required
Message	Request.Operation.DigitalWatermark	The string embedded by the digital watermark, which can contain up to 64 letters, digits, underscores (_), hyphens (-), and asterisks (*).	string	Yes
Type	Request.Operation.DigitalWatermark	Watermark type, which currently can be set to `Text` only	String	Yes
Version	Request.Operation.DigitalWatermark	Watermark version, which currently can be set to `V1` only	String	Yes
IgnoreError	Request.Operation.DigitalWatermark	Whether to ignore the watermarking failure and continue the job. Valid values: `true`, `false` (default value).	string	Yes

`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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2MTAzasdaHUISDHUINzE3YV8xZWVmNjU=
    [ContentType] => application/xml
    [ContentLength] => 1554
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-21T15:10:15+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-beijing
                        )

                    [JobId] => j1815a4c81h2kj31231gh31kj2f9e223404e
                    [Message] => Array
                        (
                        )

                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => Transcode.flv
                                    [Region] => ap-beijing
                                )

                            [TemplateId] => t0b612860as90d8a09sd65dca38
                            [TemplateName] => FLV-SD
                            [UserData] => xxx
                            [JobLevel] => 0
                            [Watermark] => Array
                                (
                                    [0] => Array
                                        (
                                            [Dx] => 64
```

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```
                [Dy] => 64
                [EndTime] => Array
                    (
                    )

                [LocMode] => Absolute
                [Pos] => TopRight
                [StartTime] => Array
                    (
                    )

                [Text] => Array
                    (
                        [FontColor] => #99ff00
                        [FontSize] => 30
                        [FontType] => simfang.ttf
                        [Text] => The first watermark
                        [Transparency] => 100
                    )

                [Type] => Text
            )

        [1] => Array
            (
                [Dx] => 64
                [Dy] => 64
                [EndTime] => Array
                    (
                    )

                [LocMode] => Absolute
                [Pos] => TopLeft
                [StartTime] => Array
                    (
                    )

                [Text] => Array
                    (
                        [FontColor] => #99ff00
                        [FontSize] => 30
                        [FontType] => simfang.ttf
                        [Text] => The second watermark
                        [Transparency] => 100
                    )

                [Type] => Text
```

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```
                                        )

                                    )

                                )

                            [Progress] => 0
                            [QueueId] => p81e648a7s9d88a09sd89a0757be086
                            [StartTime] => -
                            [State] => Submitted
                            [Tag] => Transcode
                        )

                )

)
```

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Splicing Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting a splicing job.

API	Description
Submitting a splicing job	Submits a splicing job.

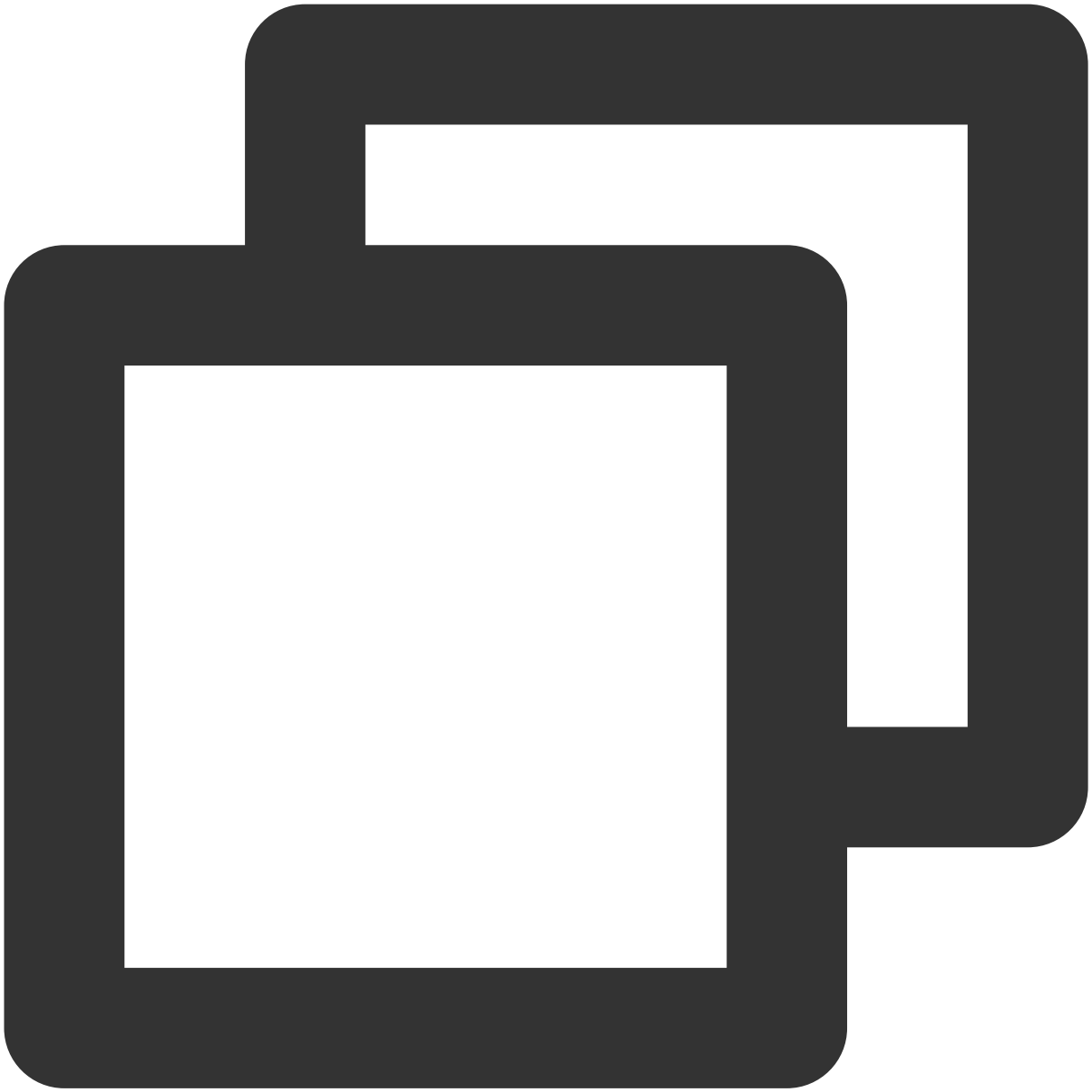
Submitting Splicing Job

Feature description

This API is used to submit a splicing job.

Method prototype

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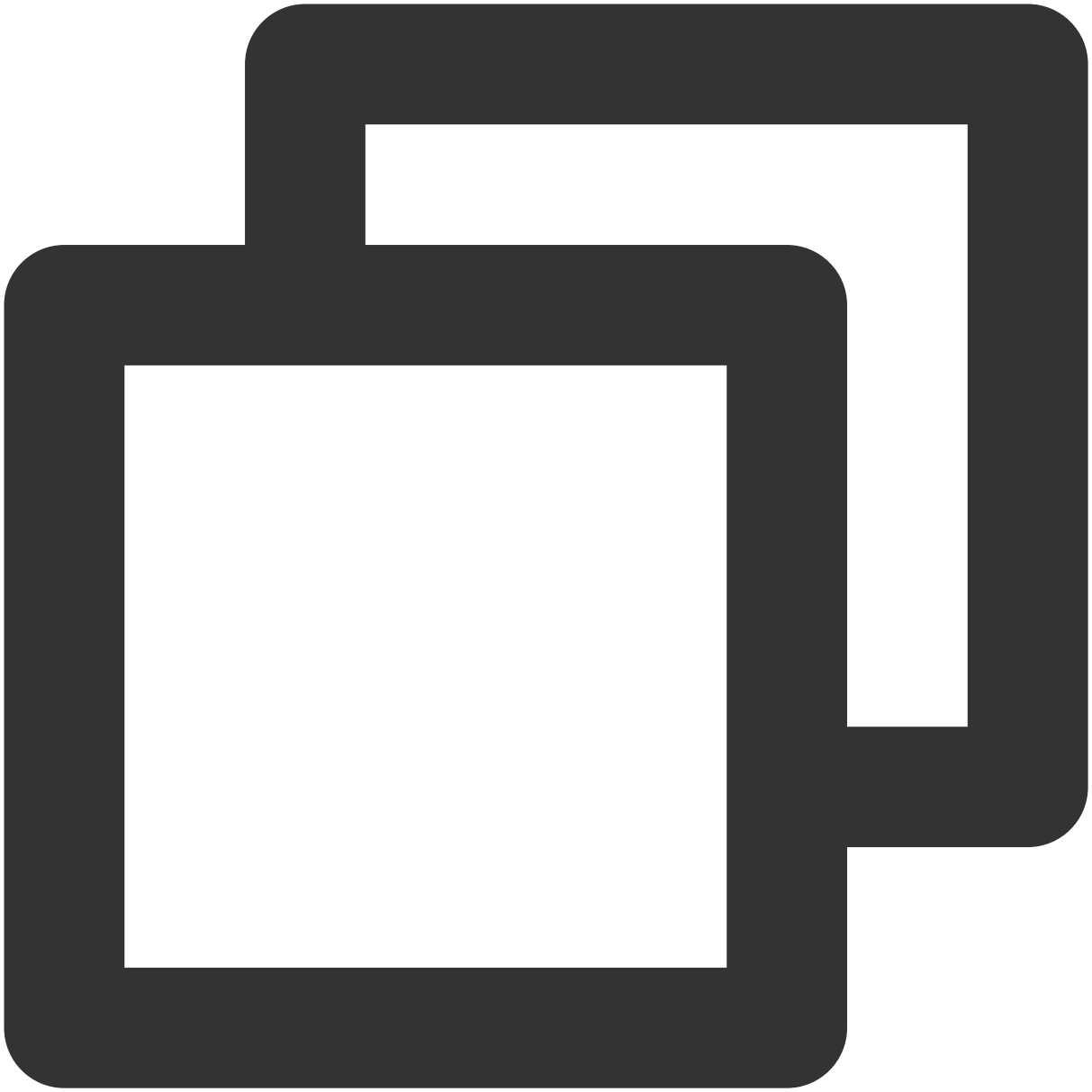


```
public Guzzle\\Service\\Resource\\Model createMediaConcatJobs(array $args = array()
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

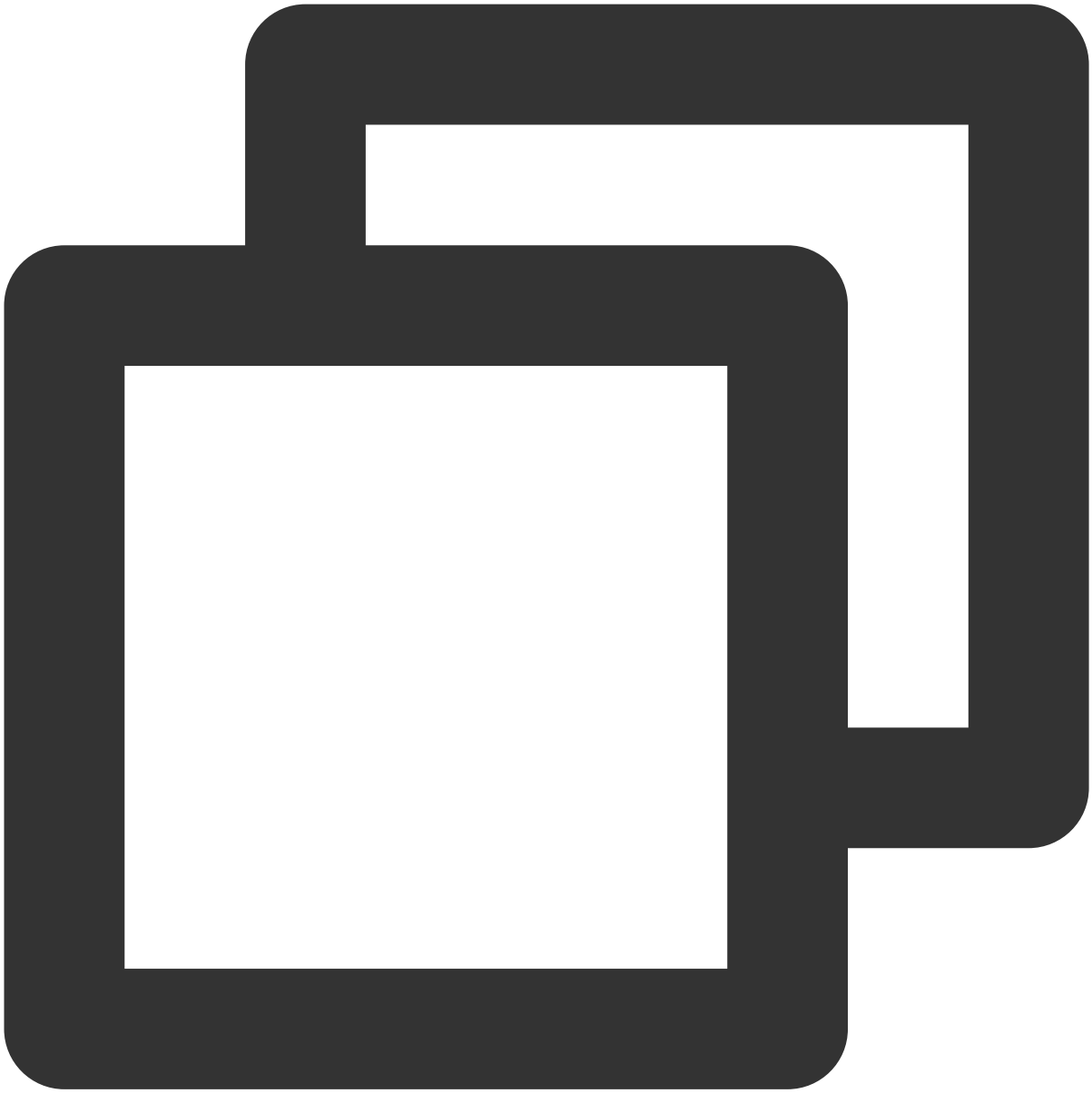
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaConcatJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Concat',
        'QueueId' => 'asdadadfafsdkjhfjghdfjg',
        'CallBack' => 'https://example.com/callback',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'TemplateId' => 'asdfafiahfiushdfisdhfuis',
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'concat-video02.mp4',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaConcatJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Concat',
        'QueueId' => 'asdadadfafsdkjhfjghdfjg',
        'CallBack' => 'https://example.com/callback',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'concat-video03.mp4',
            ),
            'ConcatTemplate' => array(
                'ConcatFragments' => array(
                    array(
                        'Url' => 'https://example.com/video01.mp4',
                        'Mode' => 'Start',
//                        'StartTime' => '0',
//                        'EndTime' => '7',
                    ),
                    array(
                        'Url' => 'https://example.com/video02.mp4',
                        'Mode' => 'Start',
//                        'StartTime' => '0',
//                        'EndTime' => '10',
                    ),
                    // ... repeated
                ),
                'Index' => 1,
                'Container' => array(
                    'Format' => 'mp4'
                ),
                'Audio' => array(
                    'Codec' => 'mp3',
                    'Samplerate' => '',
                    'Bitrate' => '',
                    'Channels' => '',
                ),
                'Video' => array(
```

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```
                    'Codec' => 'H.264',
                    'Bitrate' => '1000',
                    'Width' => '1280',
                    'Height' => '',
                    'Fps' => '30',
                ),
            ),
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: Concat	String	Yes
Input	Request	Information of the media file to be processed	Container	No
Operation	Request	Operation rule	Container	Yes
QueueId	Request	Queue ID of the job	String	Yes
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, which is required if `CallBackType` is `TDMQ`.	Container	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
ConcatTemplate	Request.Operation	Splicing parameter.	Container	No
TemplateId	Request.Operation	Template ID	String	No
Output	Request.Operation	Result output address	Container	Yes
JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0`, `1`, `2`. Default value: `0`.	String	No

Note:

`TemplateId` is used first. If `TemplateId` is unavailable, `ConcatTemplate` is used.

`ConcatTemplate` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Rec
ConcatFragment	Request.Operation.ConcatTemplate	Splicing node	Container array	No
Audio	Request.Operation.ConcatTemplate	Audio parameter. Same as `Request.ConcatTemplate.Audio` in the splicing template creation API CreateMediaTemplate.	Container	No
Video	Request.Operation.ConcatTemplate	Video parameter. Same as `Request.ConcatTemplate.Video` in the splicing template creation API CreateMediaTemplate.	Container	No
Container	Request.Operation.ConcatTemplate	Container format. Same as `Request.ConcatTemplate.Container` in the splicing template creation API CreateMediaTemplate.	Container	Yes

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AudioMix	Request.Operation.ConcatTemplate	Audio mix parameter as described in Structure.	Container array	No
Index	Request.Operation.ConcatTemplate	Index of the `Input` node in the `ConcatFragment` sequence	String	No
DirectConcat	Request.Operation.ConcatTemplate	Simple splicing (without transcoding). Other video and audio parameters become invalid.	String	No

`ConcatFragment` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Constraints
Url	Request.Operation.ConcatTemplate.ConcatFragment	Splicing object address	String	Yes	None	Same as the address of the bucket object file.
FragmentIndex	Request.Operation.ConcatTemplate.ConcatFragment	Index position of the spliced object	String	No	0	An integer greater than or equal to 0
StartTime	Request.Operation.ConcatTemplate.ConcatFragment	Start time	String	No	Video start time	[0, video duration] seconds
EndTime	Request.Operation.ConcatTemplate.ConcatFragment	End time	String	No	Video end time	[0, video duration] seconds

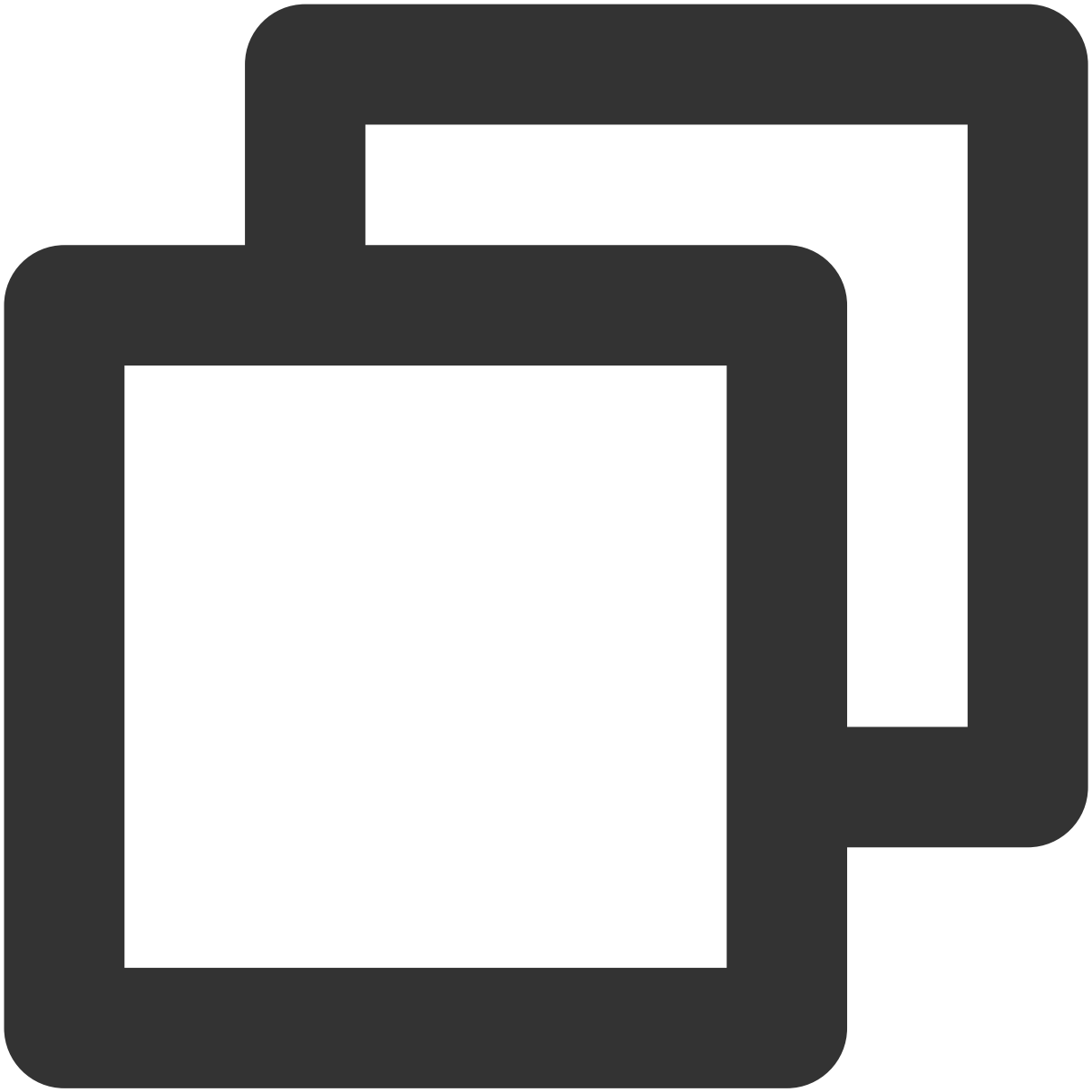
`Output` has the following sub-nodes:

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

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Object	Request.Operation.Output	Result file name	String	Yes

Sample response



```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
```

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```
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
                (
                )

        )

    [RequestId] => NjI2MjFhOTHASIUDHAUISDHl8yMjMxNmE=
    [ContentType] => application/xml
    [ContentLength] => 792
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-beijing.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-22T11:01:42+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-beijing
                        )

                    [JobId] => j898f573asd780a8sd90a8sd09e30cf31f
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => concat-video01.mp4
                                    [Region] => ap-beijing
                                )

                            [TemplateId] => t17b9c2e7a0s8d0a8d0a9d43552f648e
                            [TemplateName] => concat-1
                            [UserData] => xxx
                            [TemplateName] => 0
                        )

                    [QueueId] => p81e648af2aeas78d0a8d09a8d09757be086
```

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```
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => Concat
                )

        )

)
```

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Intelligent Thumbnail Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting an intelligent thumbnail job.

API	Description
Submitting an intelligent thumbnail job	Submits an intelligent thumbnail job.

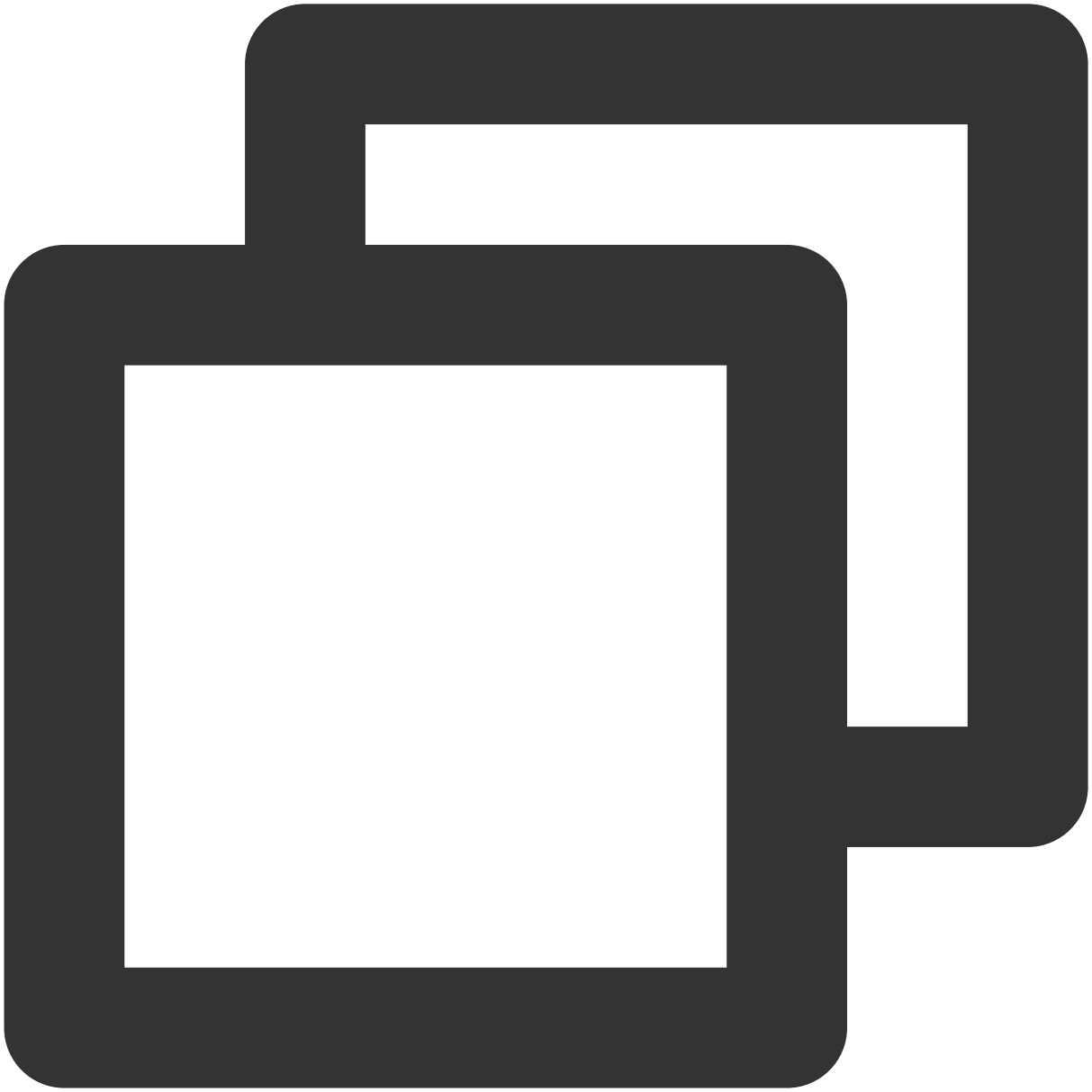
Submitting Intelligent Thumbnail Job

Feature description

This API is used to submit an intelligent thumbnail job.

Method prototype

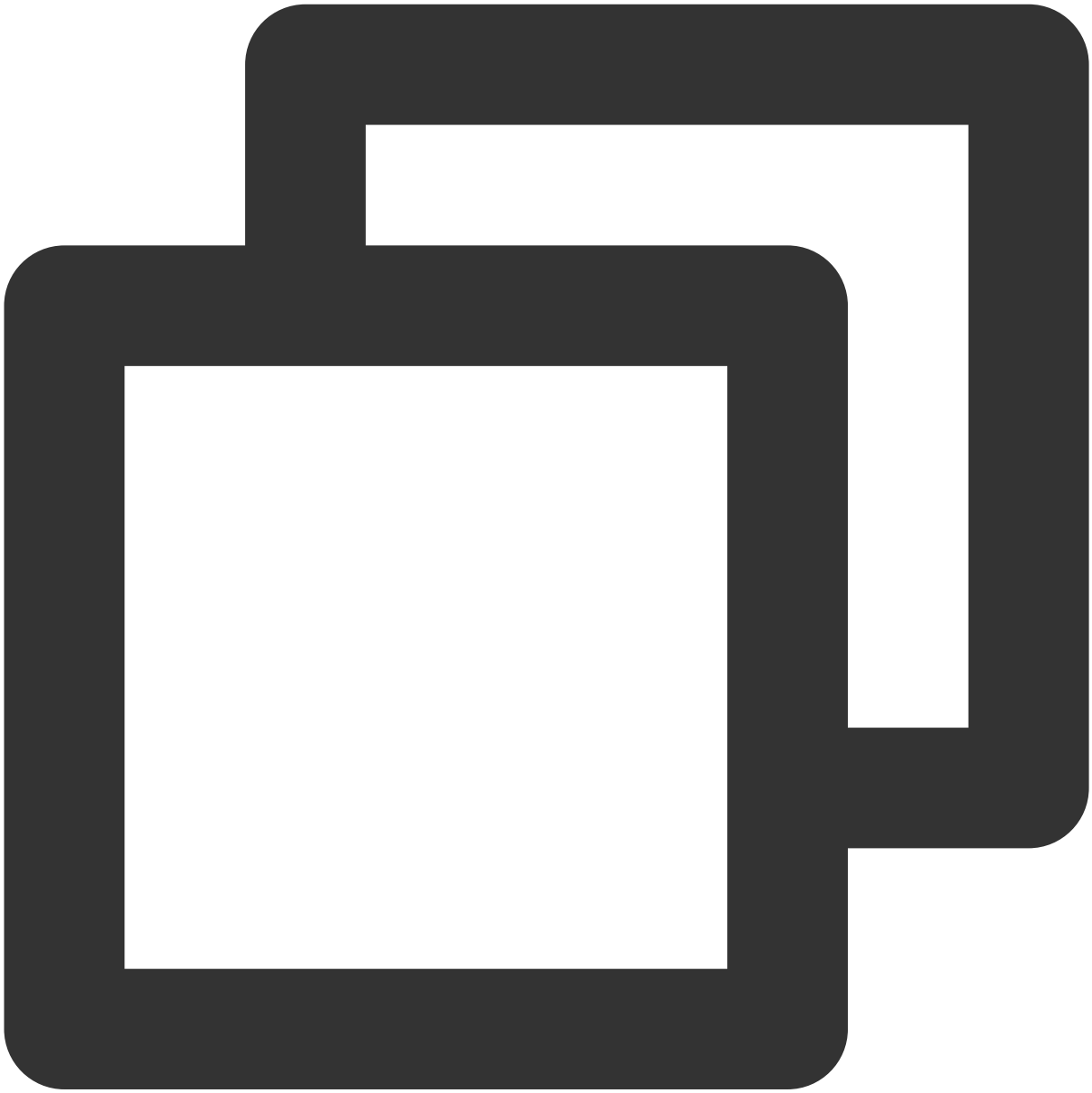
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```
public Guzzle\\Service\\Resource\\Model createMediaSmartCoverJobs(array $args = arr
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Submit an intelligent thumbnail job. For more information, visit https://int
    $result = $cosClient->createMediaSmartCoverJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'SmartCover',
        'QueueId' => 'p81e648afxxxxxxxxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
//            'TemplateId' => '', // Use a template
            'SmartCover' => array(
                'Format' => '',
                'Width' => '',
                'Height' => '',
                'Count' => '',
                'DeleteDuplicates' => '',
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'SmartCover-${Number}.jpg',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
//        'CallBackFormat' => '',
//        'CallBackType' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required

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Tag	Request	Job tag: SmartCover	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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TemplateId	Request.Operation	Intelligent thumbnail template ID	String	No
SmartCover	Request.Operation	Thumbnail configuration	Container	No
Output	Request.Operation	Result output address	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	String	No

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		higher the priority. Valid values: `0`, `1`, `2`. Default value: `0`.		

Note:

If both `TemplateId` and `SmartCover` are set, `TemplateId` will be used first.

`SmartCover` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Default Value	Const
Format	Request.Operation.SmartCover	Thumbnail image type.	String	Yes	None	png, j webp
Width	Request.Operation.SmartCover	Thumbnail image width	String	Yes	None	1. Val range [128, 4096] Unit:
Height	Request.Operation.SmartCover	Thumbnail image height	String	Yes	None	1. Val range [128, 4096] Unit:
Count	Request.Operation.SmartCover	Number of thumbnails.	String	No	3	1. Val range 10].
DeleteDuplicates	Request.Operation.SmartCover	Whether to deduplicate thumbnails.	String	No	false	true/f

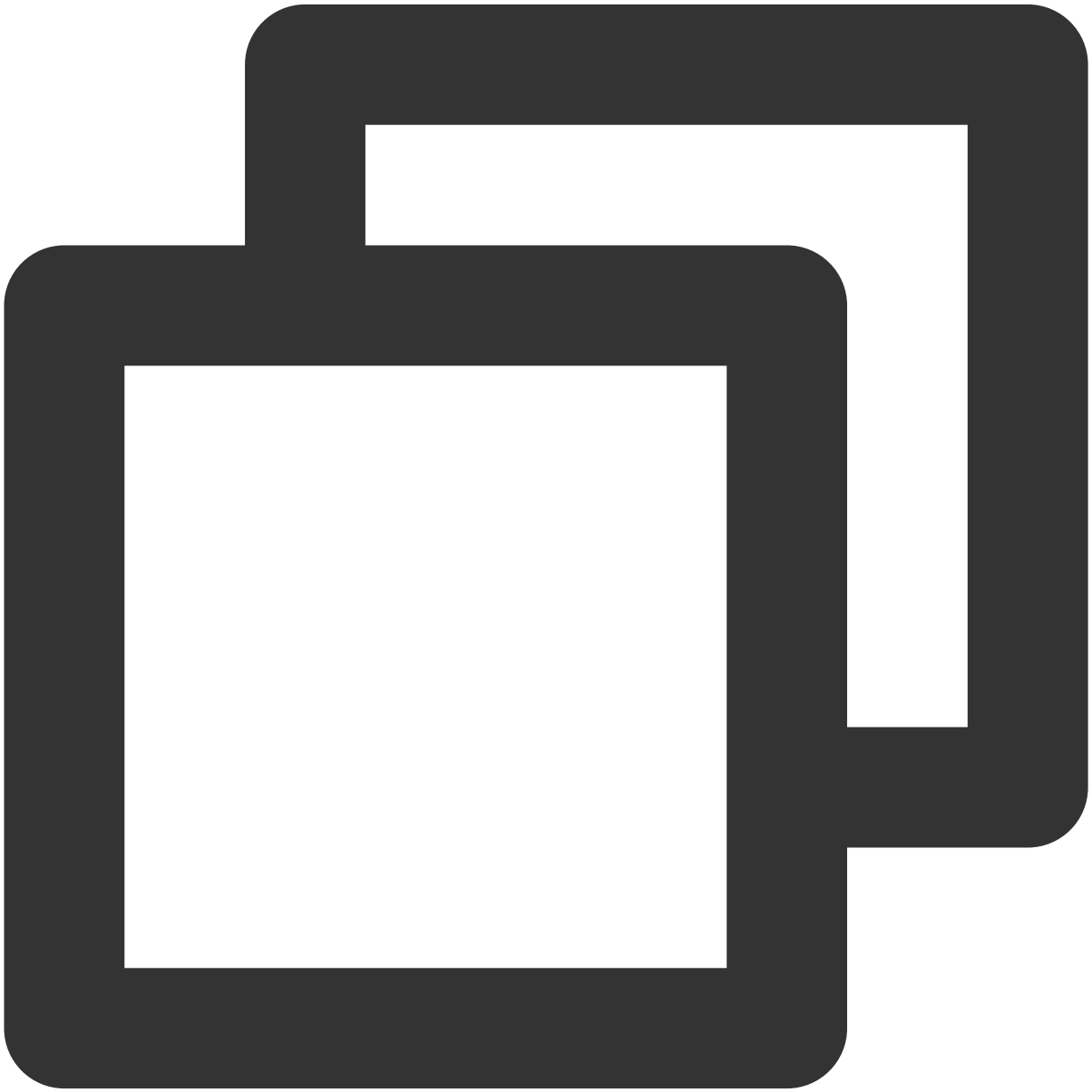
`Output` has the following sub-nodes:

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. **${Number} must be included in the filename.**	String	Yes

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		For example, if `Object` is `my-new-cover-${Number}.jpg`, and there are three result files, the output result filenames are as follows: my-new-cover-0.jpg my-new-cover-1.jpg my-new-cover-2.jpg		

Sample response



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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
                (
                )

        )

    [RequestId] => NjI2MASOIDUAOIDUJIAOJDIOADJyMjNjZDE=
    [ContentType] => application/xml
    [ContentLength] => 832
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-beijing.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-22T11:12:33+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-beijing
                        )

                    [JobId] => j0d9bc17z890zx8c9s877z97187147
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => SmartCover-${Number}.jpg
                                    [Region] => ap-beijing
                                )
```

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```
                            [SmartCover] => Array
                                (
                                    [Count] =>
                                    [DeleteDuplicates] => false
                                    [Format] =>
                                    [Height] =>
                                    [Width] =>
                                )
                            [UserData] => xxx
                            [JobLevel] => 0
                        )

                    [QueueId] => p81e648afzx8c09z8xc09zx8c097be086
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => SmartCover
                )

        )

)
```

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Multi-Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting multiple jobs.

API	Description
Submitting multiple jobs	Submits multiple jobs

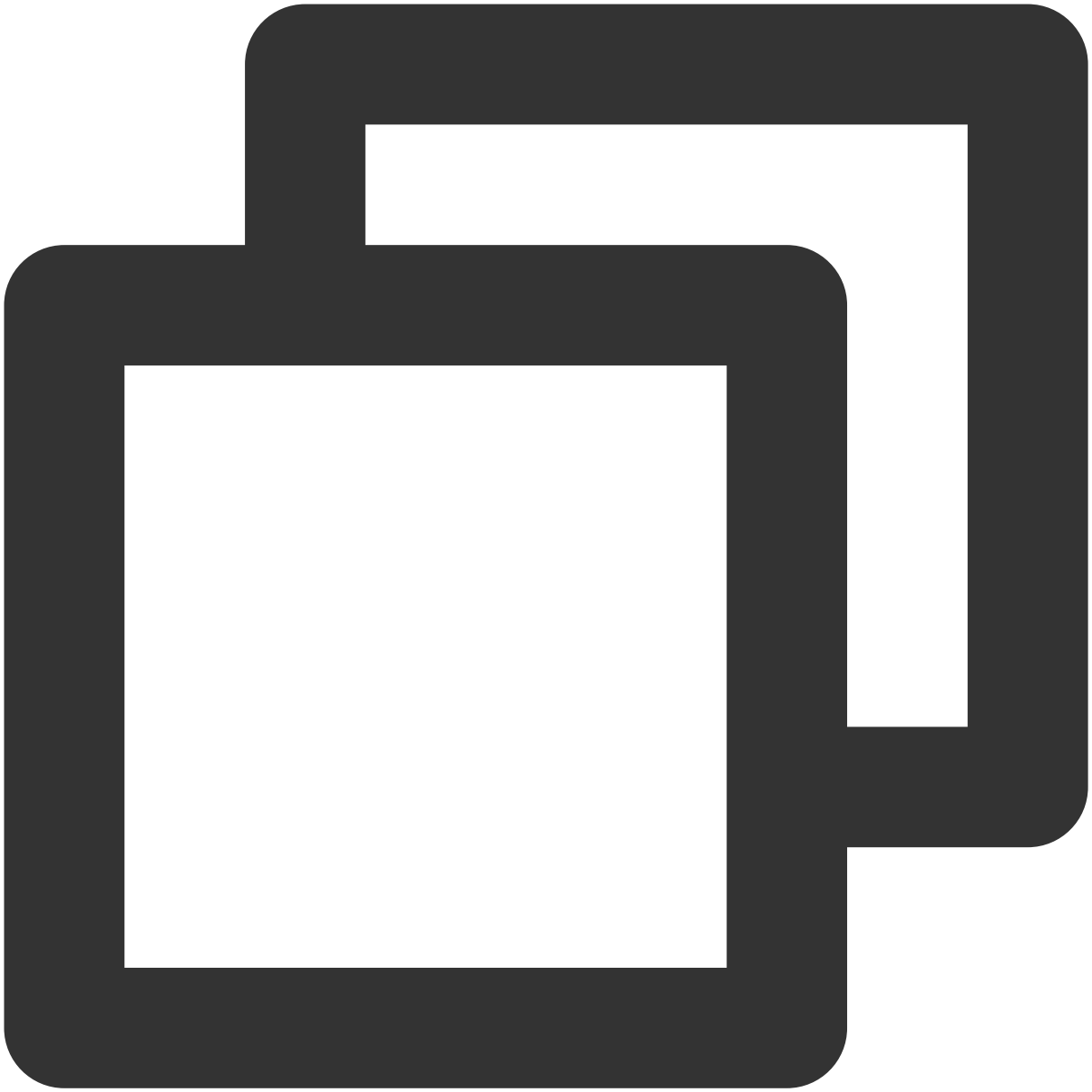
Submitting Multiple Jobs

Feature description

This API is used to submit multiple jobs.

Method prototype

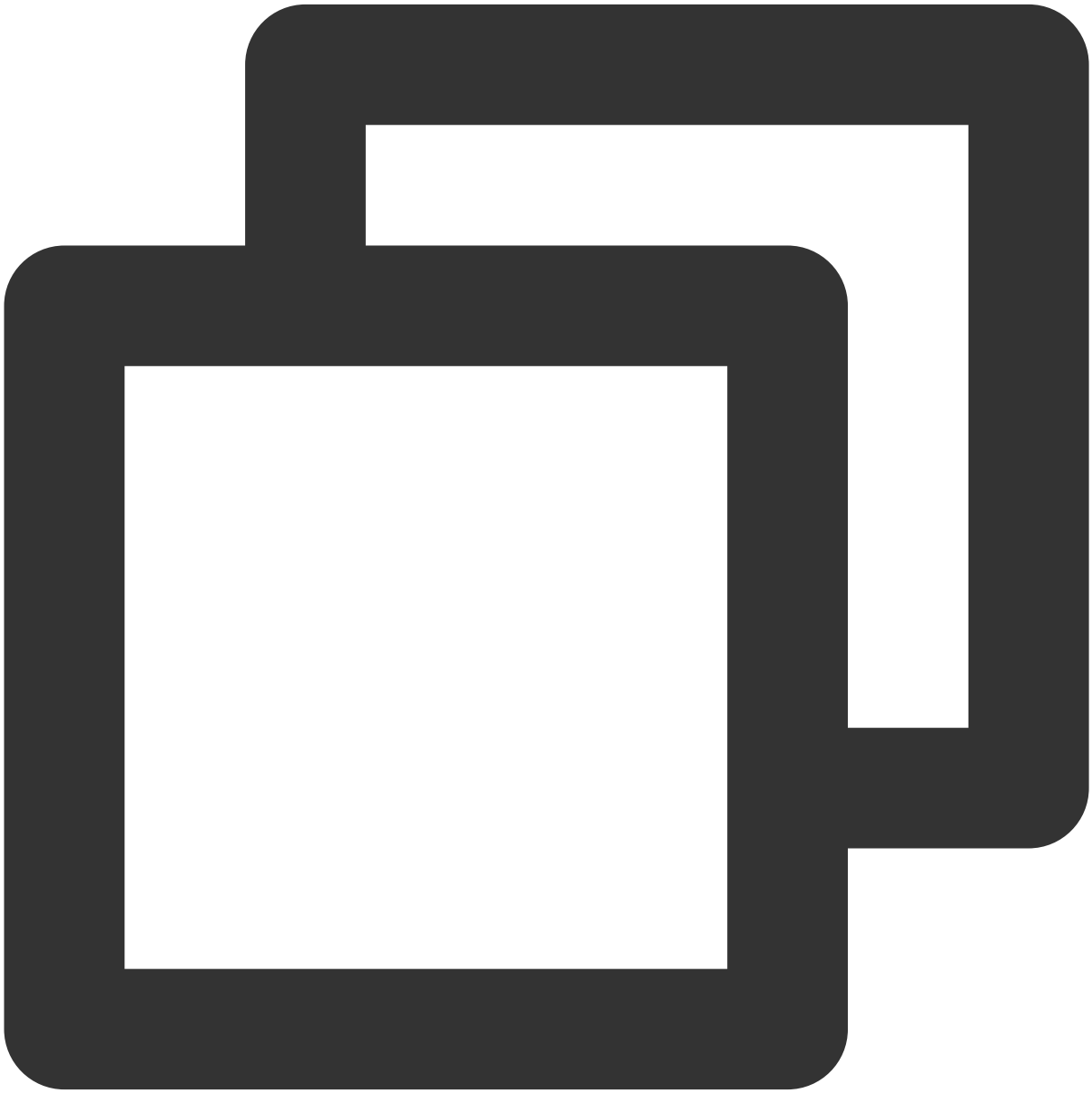
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```
public Guzzle\\Service\\Resource\\Model createMediaJobs(array $args = array());
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your real `secretId`, which can be viewe
$secretKey = "SECRETKEY"; // Replace it with your real `secretKey`, which can be vi
$region = "ap-beijing"; // Replace it with your real region information, which can
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Multi-job APIs: https://cloud.tencent.com/document/product/436/58335
    $result = $cosClient->CreateMediaJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Transcode', // If `Operation` has no `Tag` parameter, this option
        'QueueId' => 'paaf4fce5521a40888a303xxxxxxxxxxxxxx',
        'CallBack' => '',
        'Input' => array(
            'Object' => 'example.mp4'
        ),
        'Operation' => array(
            array(
                'Tag' => 'Transcode',
                'TemplateId' => 't04e1ab86554984f1aa17cxxxxxxxxxxxxx',
                'Output' => array(
                    'Region' => $region,
                    'Bucket' => 'examplebucket-1250000000', // Bucket name in the f
                    'Object' => 'video01.mp4',
                ),
                'WatermarkTemplateId' => array(
                    't112d18d9b2a9b430e91dxxxxxxxxxxxxx',
                ),
            ),
            array(
                'Tag' => 'Transcode',
                'TemplateId' => 't04e1ab86554984f1aa17xxxxxxxxxxxxx',
                'Output' => array(
                    'Region' => $region,
                    'Bucket' => 'examplebucket-1250000000', // Bucket name in the f
                    'Object' => 'video02.mp4',
                ),
                'WatermarkTemplateId' => array(
                    't1bf713bb5c6a5496e859axxxxxxxxxxxxx',
                ),
            ),
        ),
    ));
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

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Parameter description

`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

`Operation` has the following sub-nodes:

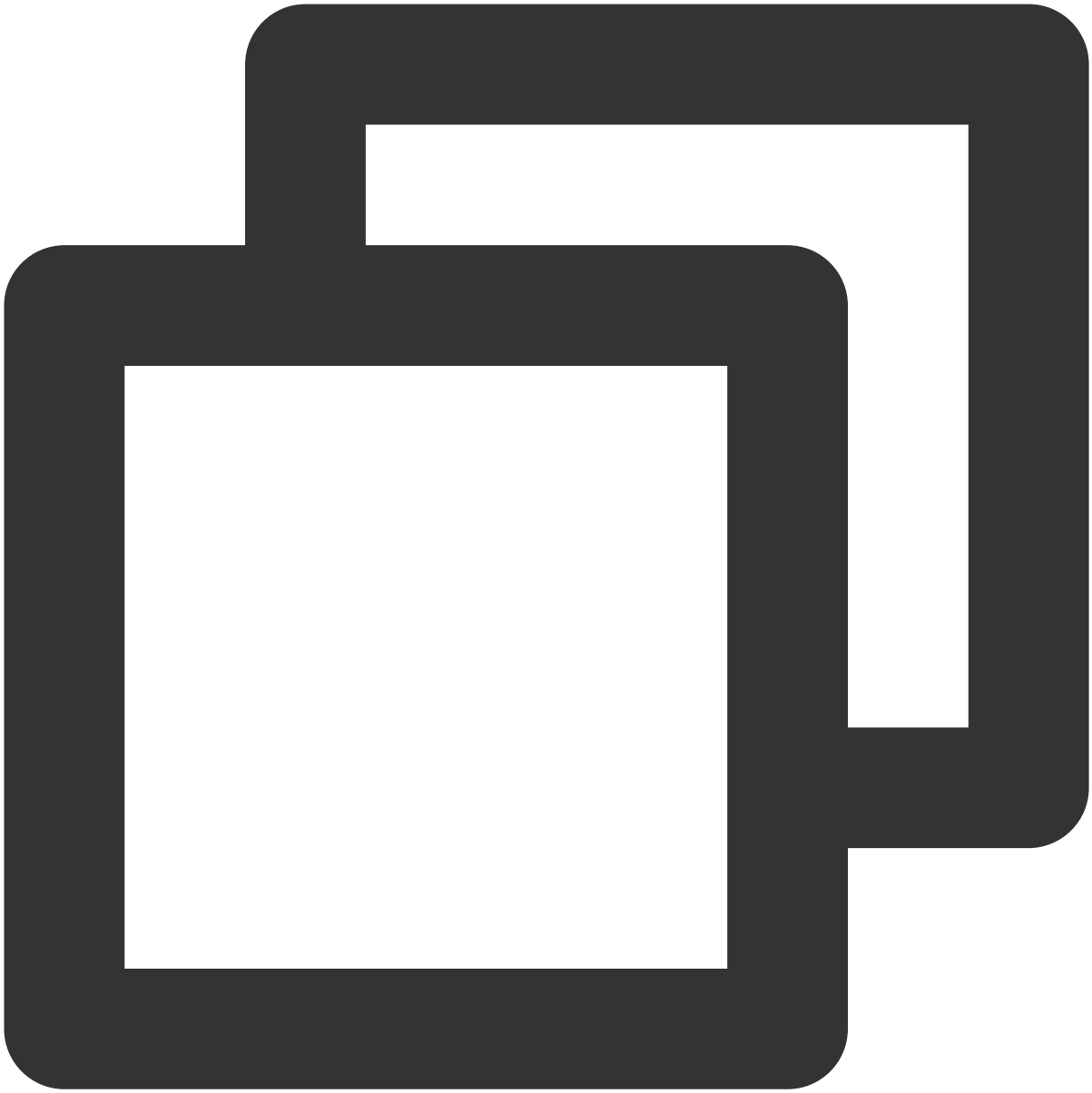
Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request.Operation	Job type. Valid values: Animation, Transcode, SmartCover, Snapshot	Container	Yes
TemplateId	Request.Operation	Template ID	String	Yes
Output	Request.Operation	Result output address	Container	Yes

`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 result filename	String	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2MTAJOIDSjoiajsdoSDOASDHJoimY2YTQ=
    [ContentType] => application/xml
    [ContentLength] => 1731
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-beijing.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [0] => Array
                        (
                            [Code] => Success
                            [CreationTime] => 2022-04-21T18:03:31+0800
                            [EndTime] => -
                            [Input] => Array
                                (
                                    [BucketId] => examplebucket-1250000000
                                    [Object] => video01.mp4
                                    [Region] => ap-beijing
                                )

                            [JobId] => j4c211cas9a87sd90d80a988627cb30
                            [Message] =>
                            [Operation] => Array
                                (
                                    [Output] => Array
                                        (
                                            [Bucket] => examplebucket-1250000000
                                            [Object] => Transcode-01.flv
                                            [Region] => ap-beijing
                                        )

                                    [TemplateId] => t0b6128z8c098z09xcsd89s0a5dca38
                                    [TemplateName] => FLV-SD
                                    [WatermarkTemplateId] => t185z90x8c9z0da5sd67a5
                                )

                            [Progress] => 0
                            [QueueId] => pzx8c09za90sd890a8d09aa0757be086
                            [StartTime] => -
                            [State] => Submitted
                            [Tag] => Transcode
```

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```
                        )

                    [1] => Array
                        (
                            [Code] => Success
                            [CreationTime] => 2022-04-21T18:03:31+0800
                            [EndTime] => -
                            [Input] => Array
                                (
                                    [BucketId] => examplebucket-1250000000
                                    [Object] => video01.mp4
                                    [Region] => ap-beijing
                                )

                            [JobId] => j4cz9x7c8z9xcsda98sd09ad80627cb30
                            [Message] =>
                            [Operation] => Array
                                (
                                    [Output] => Array
                                        (
                                            [Bucket] => examplebucket-1250000000
                                            [Object] => Transcode-02.flv
                                            [Region] => ap-beijing
                                        )

                                    [TemplateId] => t0bz98xc789zxs9d80a8sd90asd37f8
                                    [TemplateName] => FLV-HD
                                    [WatermarkTemplateId] => t18zc8z90csd876a78sdas
                                )

                            [Progress] => 0
                            [QueueId] => p81zxc908zaf2aee496a09s8d90as8d90
                            [StartTime] => -
                            [State] => Submitted
                            [Tag] => Transcode
                        )

                )

        )

)
```

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Video Enhancement Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting a video enhancement job.

API	Description
Submitting a video enhancement job	Submits a video enhancement job.

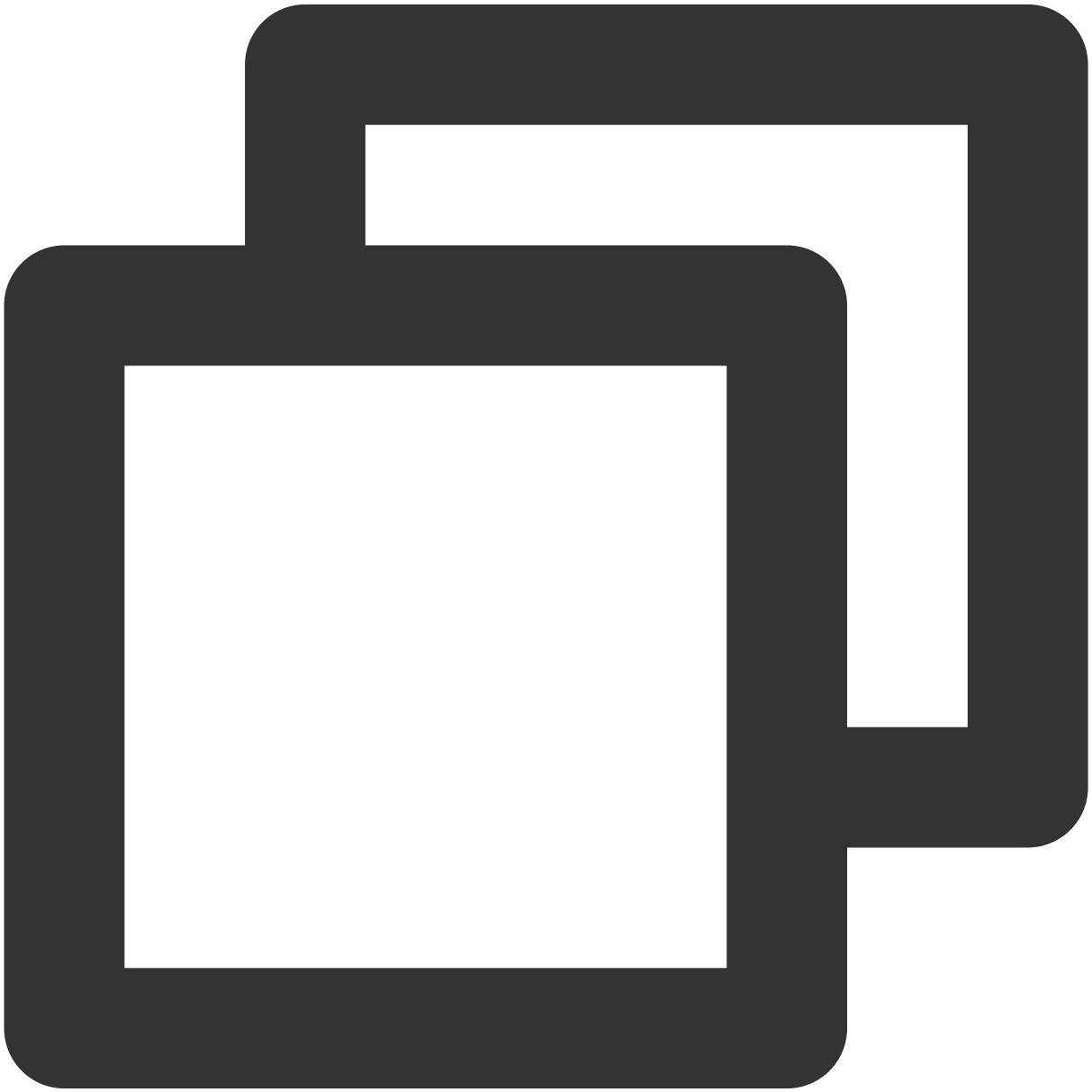
Submitting Video Enhancement Job

Feature description

This API is used to submit a video enhancement job.

Method prototype

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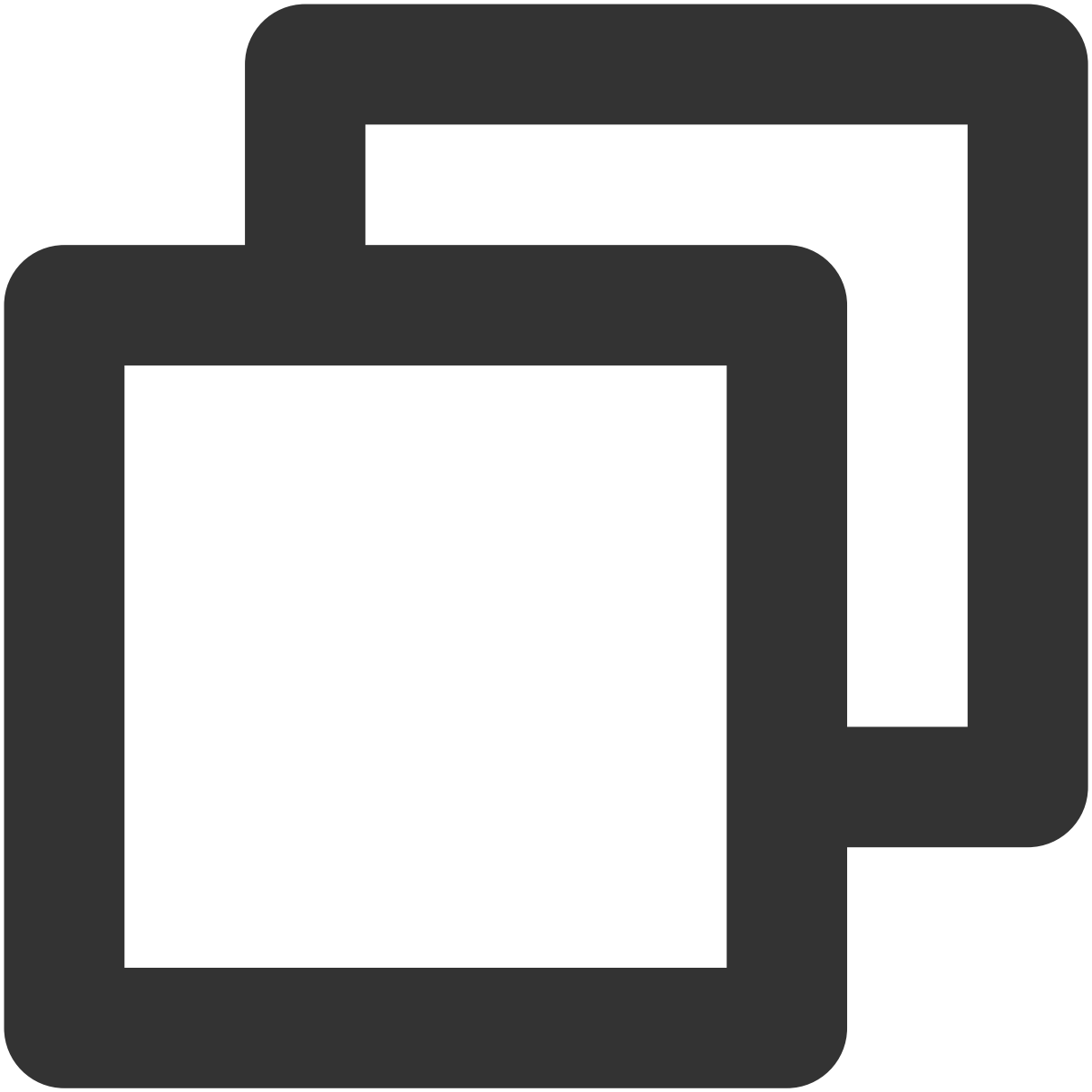


```
public Guzzle\\Service\\Resource\\Model createMediaVideoProcessJobs(array $args = a
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

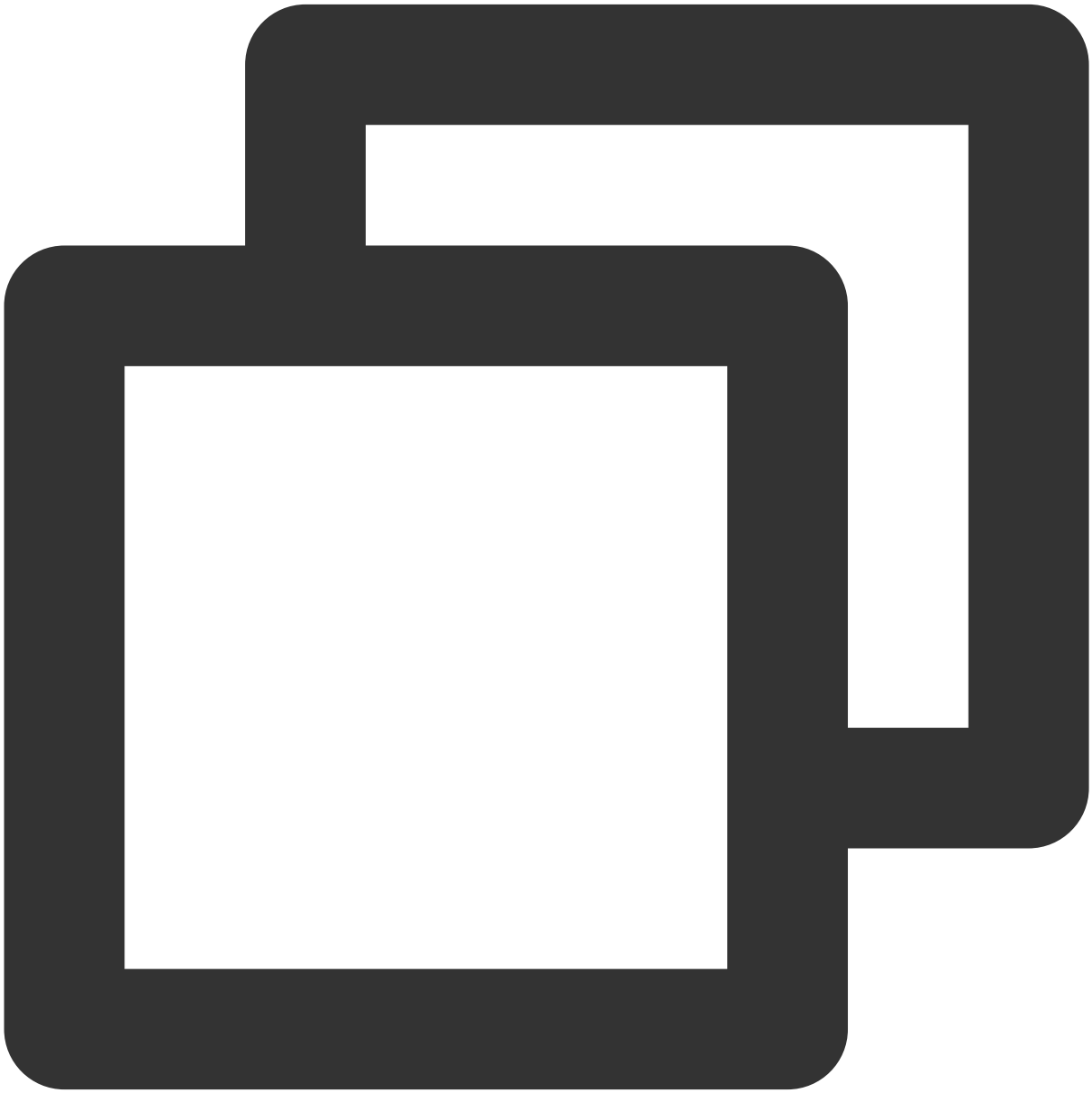
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaVideoProcessJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'VideoProcess',
        'QueueId' => 'p81e648afxxxxxxxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'TemplateId' => 't13466f1ea41a14c0xxxxxxxxxxxxx', // Video enhancement
            'TranscodeTemplateId' => 't0b6a845f5e42847bd81xxxxxxxxxxxx', // Transc
            'WatermarkTemplateId' => 't185e2e24551b24259a0xxxxxxxxxxxx', // Waterm
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'VideoProcess.flv',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaVideoProcessJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'VideoProcess',
        'QueueId' => 'p81e648afxxxxxxxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'VideoProcess' => array(
                'ColorEnhance' => array(
                    'Enable' => '',
                    'Contrast' => '',
                    'Correction' => '',
                    'Saturation' => '',
                ),
                'MsSharpen' => array(
                    'Enable' => '',
                    'SharpenLevel' => '',
                ),
            ),
            'Transcode' => array(
                'Tag' => '',
                'Name' => '',
                'Container' => array(
                    'Format' => '',
                ),
                'Video' => array(
                    'Codec' => '',
                    'Width' => '',
                    'Height' => '',
                    'Fps' => '',
                    'Remove' => '',
                    'Profile' => '',
                    'Bitrate' => '',
                    'Crf' => '',
                    'Gop' => '',
                    'Preset' => '',
                    'Bufsize' => '',
                    'Maxrate' => '',
                    'HlsTsTime' => '',
                    'Pixfmt' => '',
                    'LongShortMode' => '',
                ),
```

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```
                'TimeInterval' => array(
                    'Start' => '',
                    'Duration' => '',
                ),
                'Audio' => array(
                    'Codec' => '',
                    'Samplerate' => '',
                    'Bitrate' => '',
                    'Channels' => '',
                    'Remove' => '',
                    'KeepTwoTracks' => '',
                    'SwitchTrack' => '',
                    'SampleFormat' => '',
                ),
                'TransConfig' => array(
                    'AdjDarMethod' => '',
                    'IsCheckReso' => '',
                    'ResoAdjMethod' => '',
                    'IsCheckVideoBitrate' => '',
                    'VideoBitrateAdjMethod' => '',
                    'IsCheckAudioBitrate' => '',
                    'AudioBitrateAdjMethod' => '',
                    'DeleteMetadata' => '',
                    'IsHdr2Sdr' => '',
                    'HlsEncrypt' => array(
                        'IsHlsEncrypt' => '',
                        'UriKey' => '',
                    ),
                ),
            ),
            'Watermark' => array(
                'Type' => '',
                'Pos' => '',
                'LocMode' => '',
                'Dx' => '',
                'Dy' => '',
                'StartTime' => '',
                'EndTime' => '',
                'Image' => array(
                    'Url' => '',
                    'Mode' => '',
                    'Width' => '',
                    'Height' => '',
                    'Transparency' => '',
                    'Background' => '',
                ),
                'Text' => array(
```

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```
                    'FontSize' => '',
                    'FontType' => '',
                    'FontColor' => '',
                    'Transparency' => '',
                    'Text' => '',
                ),
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'VideoProcess.flv',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: VideoProcess	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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over	String	No

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		that of the queue. If it is set to `no`, no callbacks will be generated at the callback address of the queue.		
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
VideoProcess	Request.Operation	Video enhancement template parameter. This node and `TemplateId` cannot be empty at the same time.	Container	No
TemplateId	Request.Operation	Template ID. This node and `VideoProcess` cannot be empty at the same time.	String	No
Transcode	Request.Operation	Transcoding template parameter. This node and `TranscodeTemplateId` cannot be empty at the same time.	Container	No
TranscodeTemplateId	Request.Operation	Transcoding template ID. This node and `Transcode` cannot be empty at the same time. Use this node first.	String array	No
Watermark	Request.Operation	Watermark template parameter. Same as `Request.Watermark` in the watermark template creation API CreateMediaTemplate. Up to three watermarks can be passed in.	Container array	No

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WatermarkTemplateId	Request.Operation	Watermark template ID. Up to three watermark template IDs can be passed in. If `Watermark` and `WatermarkTemplateId` exist at the same time, use `WatermarkTemplateId` first.	String	No
DigitalWatermark	Request.Operation	Specifies the digital watermark parameter	Container	No
Output	Request.Operation	Result output address	Container	Yes
JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0` , `1` , `2` . Default value: `0` .	String	No

Note:

To submit a video enhancement job, you must pass in the transcoding parameter. For the video enhancement parameter, `TemplateId` is used first, and if `TemplateId` is unavailable, `VideoProcess` is used. For the transcoding parameter, `TranscodeTemplateId` is used first, and if `TranscodeTemplateId` is unavailable, `Transcode` is used. For the watermark parameter, `WatermarkTemplateId` or `Watermark` can be used for configuration, and `WatermarkTemplateId` is used first.

`VideoProcess` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description
ColorEnhance	Request.Operation.VideoProcess	Same as `Request.ColorEnhance` in the video enhancement template creation API CreateMediaTemplate.
MsSharpen	Request.Operation.VideoProcess	Same as `Request.MsSharpen` in the video enhancement template creation API CreateMediaTemplate.

`Transcode` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TimeInterval	Request.Operation.Transcode	Same as `Request.TimeInterval` in the transcoding template	Container	No

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		creation API CreateMediaTemplate.		
Container	Request.Operation.Transcode	Same as `Request.Container` in the transcoding template creation API CreateMediaTemplate.	Container	No
Video	Request.Operation.Transcode	Same as `Request.Video` in the transcoding template creation API CreateMediaTemplate.	Container	No
Audio	Request.Operation.Transcode	Same as `Request.Audio` in the transcoding template creation API CreateMediaTemplate.	Container	No
TransConfig	Request.Operation.Transcode	Same as `Request.TransConfig` in the transcoding template creation API CreateMediaTemplate.	Container	No
AudioMix	Request.Operation.Transcode	Audio mix parameter as described in Structure.	Container array	No

`DigitalWatermark` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Message	Request.Operation.DigitalWatermark	The string embedded by the digital watermark, which can contain up to 64 letters, digits, underscores (_), hyphens (-), and asterisks (*).	string	Yes
Type	Request.Operation.DigitalWatermark	Watermark type, which currently can be set to `Text` only	String	Yes
Version	Request.Operation.DigitalWatermark	Watermark version, which currently can be set to `V1` only	String	Yes

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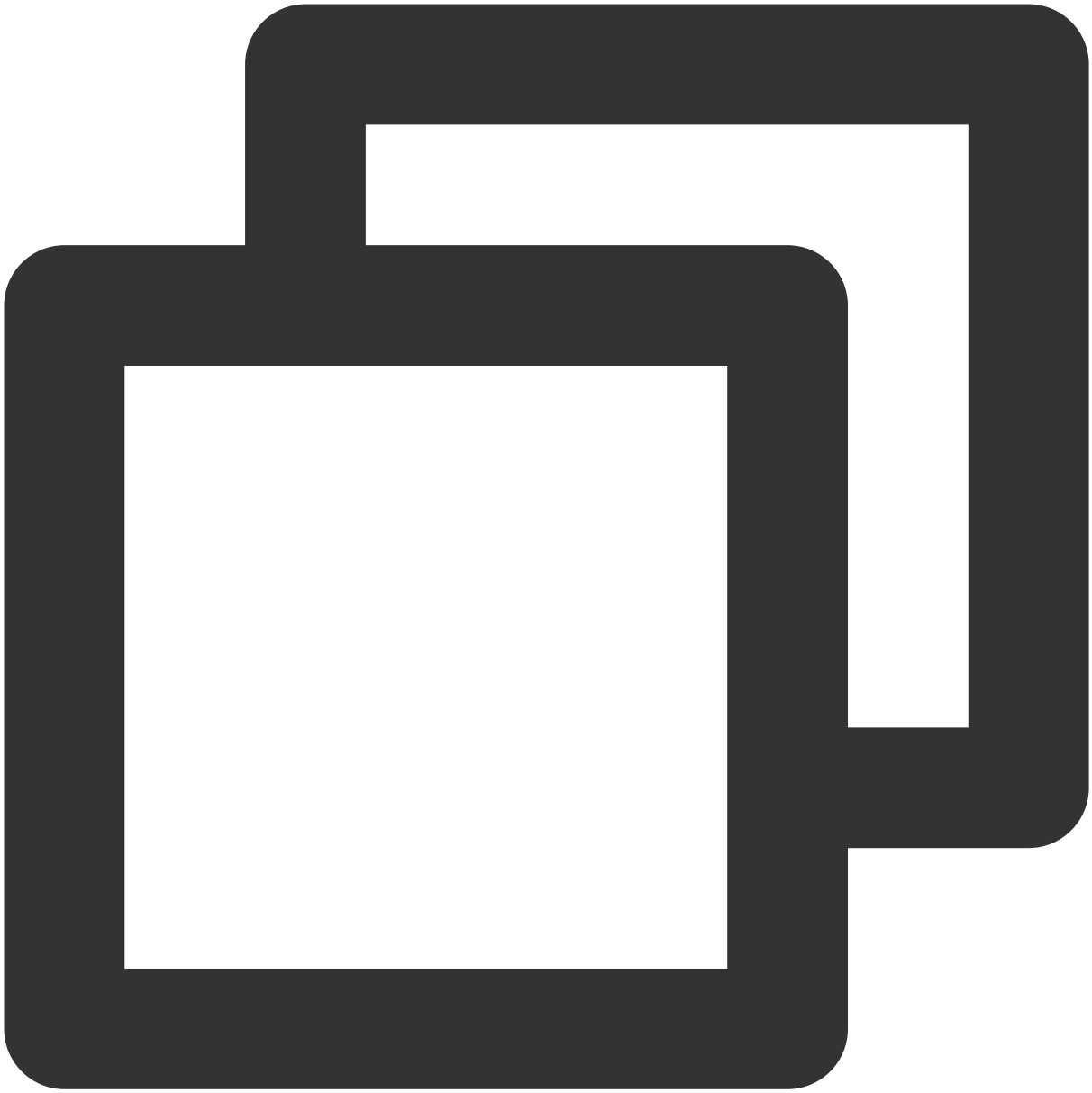
IgnoreError	Request.Operation.DigitalWatermark	Whether to ignore the watermarking failure and continue the job. Valid values: `true`, `false` (default)	string	Yes

`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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2MjNjYHAOIHDOIADJHOIA18yMjFlMWE=
    [ContentType] => application/xml
    [ContentLength] => 965
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-beijing.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-22T11:19:15+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-beijing
                        )

                    [JobId] => jfd27519z8zx90c8z90c7809z9f35eb
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => VideoProcess.flv
                                    [Region] => ap-beijing
                                )

                            [TemplateId] => t13466f1eazx08c09zx8c09zx8e9cd
                            [TemplateName] => video-process-1
                            [TranscodeTemplateId] => t0b612860z087xc09zx8c09xz8c095
                            [WatermarkTemplateId] => t185e2e24zxc780z8c0z98c323c642
                            [UserData] => xxx
                            [JobLevel] => 0
                        )

                    [QueueId] => p81e648af2aee496885zx098c09z8xc09zxc086
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => VideoProcess
```

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```
                    )

                )

)
```

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Video Montage Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting a montage job.

API	Description
Submitting a video montage job	Submits a video montage job.

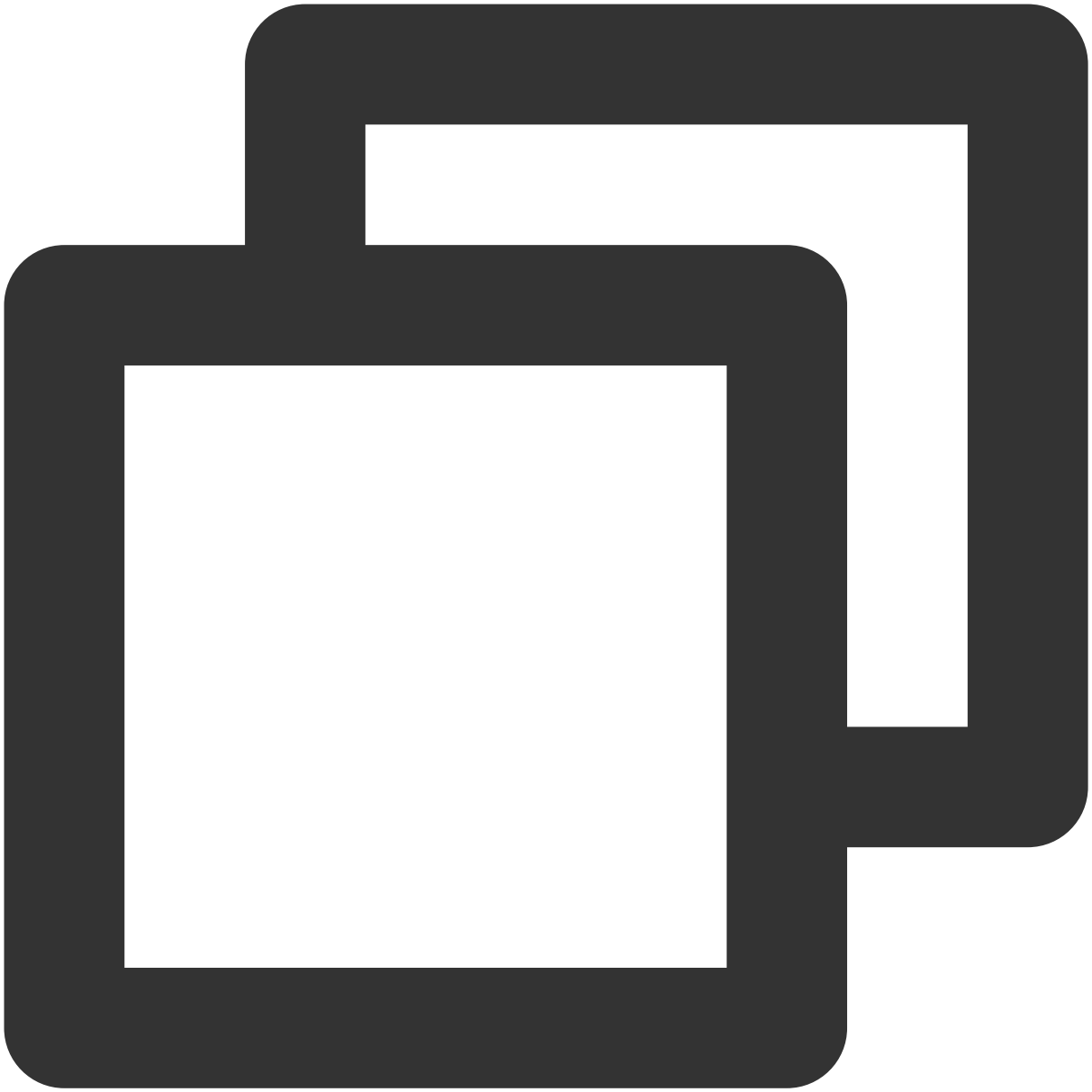
Submitting Video Montage Job

Feature description

This API is used to submit a montage job.

Method prototype

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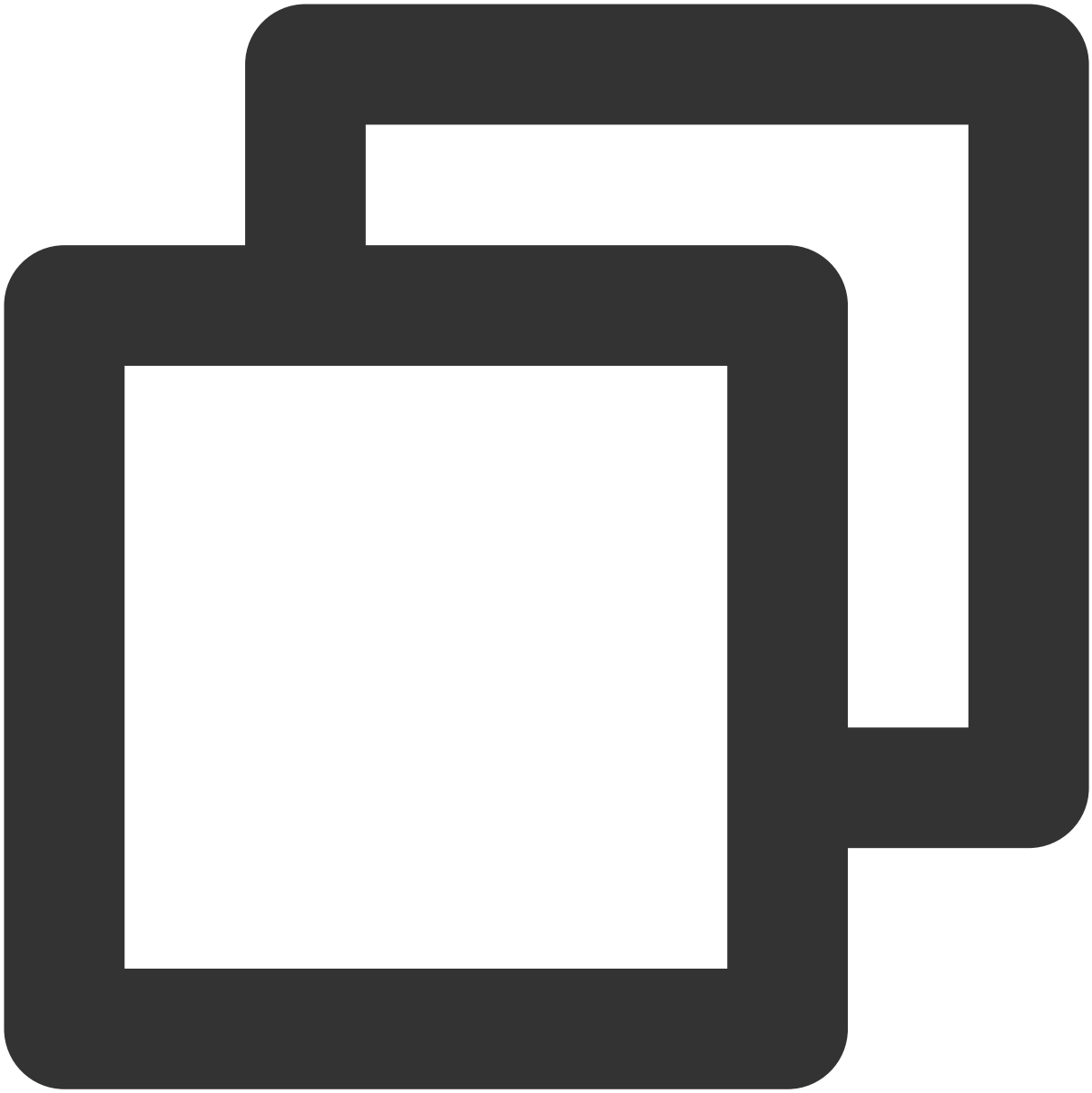


```
public Guzzle\\Service\\Resource\\Model createMediaVideoMontageJobs(array $args = a
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

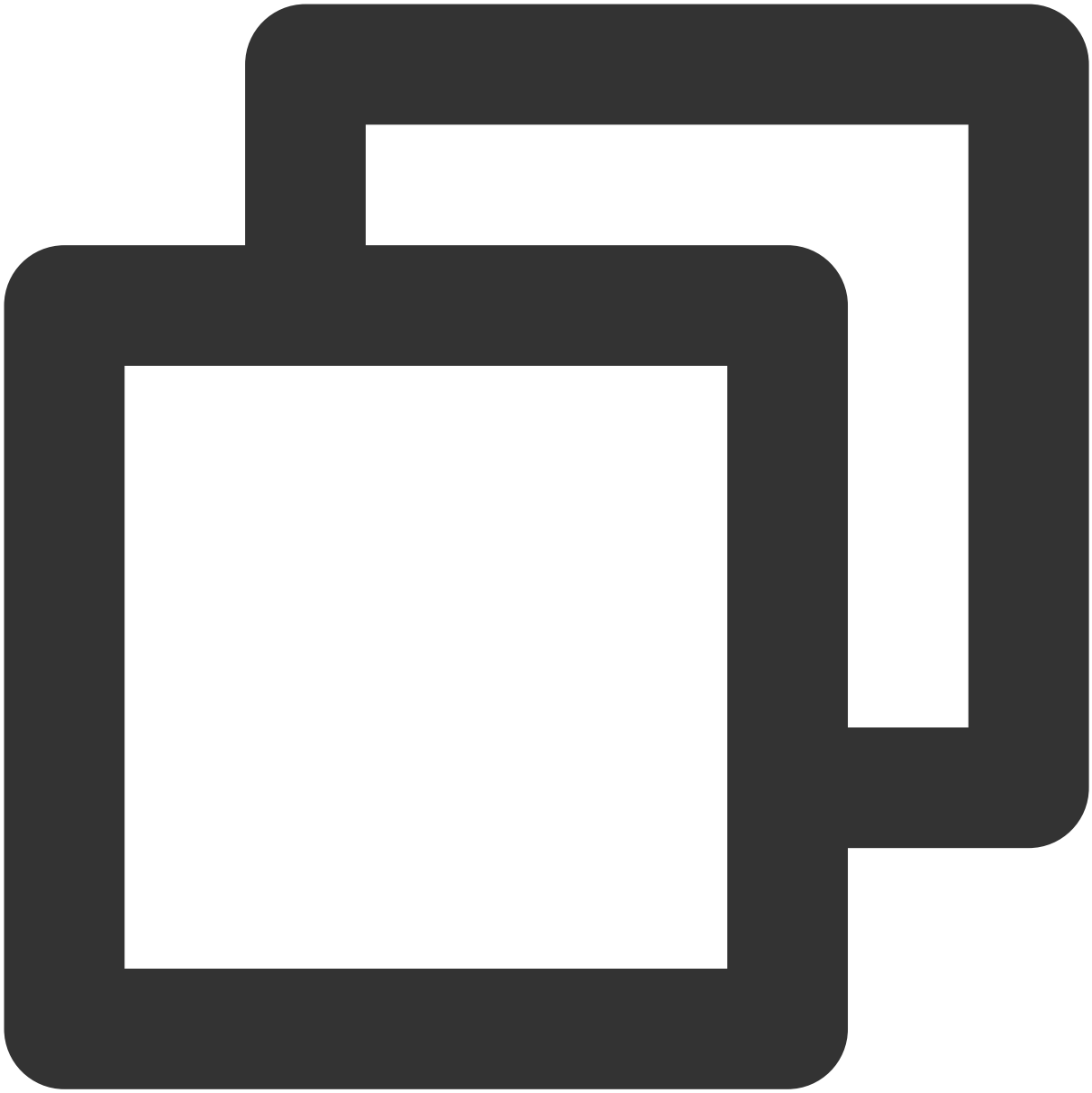
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaVideoMontageJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'VideoMontage',
        'QueueId' => 'p81e648af2aeexxxxxxxxxxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'TemplateId' => 't1fcc3770199e04737axxxxxxxxxxxxxx',
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'VideoMontage.mp4',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaVideoMontageJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'VideoMontage',
        'QueueId' => 'p81e648af2aeexxxxxxxxxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'VideoMontage' => array(
                'Duration' => '',
                'Container' => array(
                    'Format' => '',
                ),
                'Video' => array(
                    'Codec' => '',
                    'Width' => '',
                    'Height' => '',
                    'Fps' => '',
                    'Bitrate' => '',
                    'Crf' => '',
                ),
                'Audio' => array(
                    'Codec' => '',
                    'Samplerate' => '',
                    'Bitrate' => '',
                    'Channels' => '',
                    'Remove' => '',
                ),
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'VideoMontage.mp4',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
```

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```
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: VideoMontage	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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required

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VideoMontage	Request.Operation	Video montage template parameter	Container	No
TemplateId	Request.Operation	Template ID	String	No
Output	Request.Operation	Result output address	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

Note:

`TemplateId` is used first. If `TemplateId` is unavailable, `VideoMontage` is used.

`VideoMontage` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TimeInterval	Request.Operation.Transcode	Same as `Request.TimeInterval` in the transcoding template creation API CreateMediaTemplate.	Container	No
Container	Request.Operation.Transcode	Same as `Request.Container` in the transcoding template creation API CreateMediaTemplate.	Container	No
Video	Request.Operation.Transcode	Same as `Request.Video` in the transcoding template creation API CreateMediaTemplate.	Container	No
Audio	Request.Operation.Transcode	Same as `Request.Audio` in the transcoding template creation API CreateMediaTemplate.	Container	No
TransConfig	Request.Operation.Transcode	Same as `Request.TransConfig` in the transcoding template	Container	No

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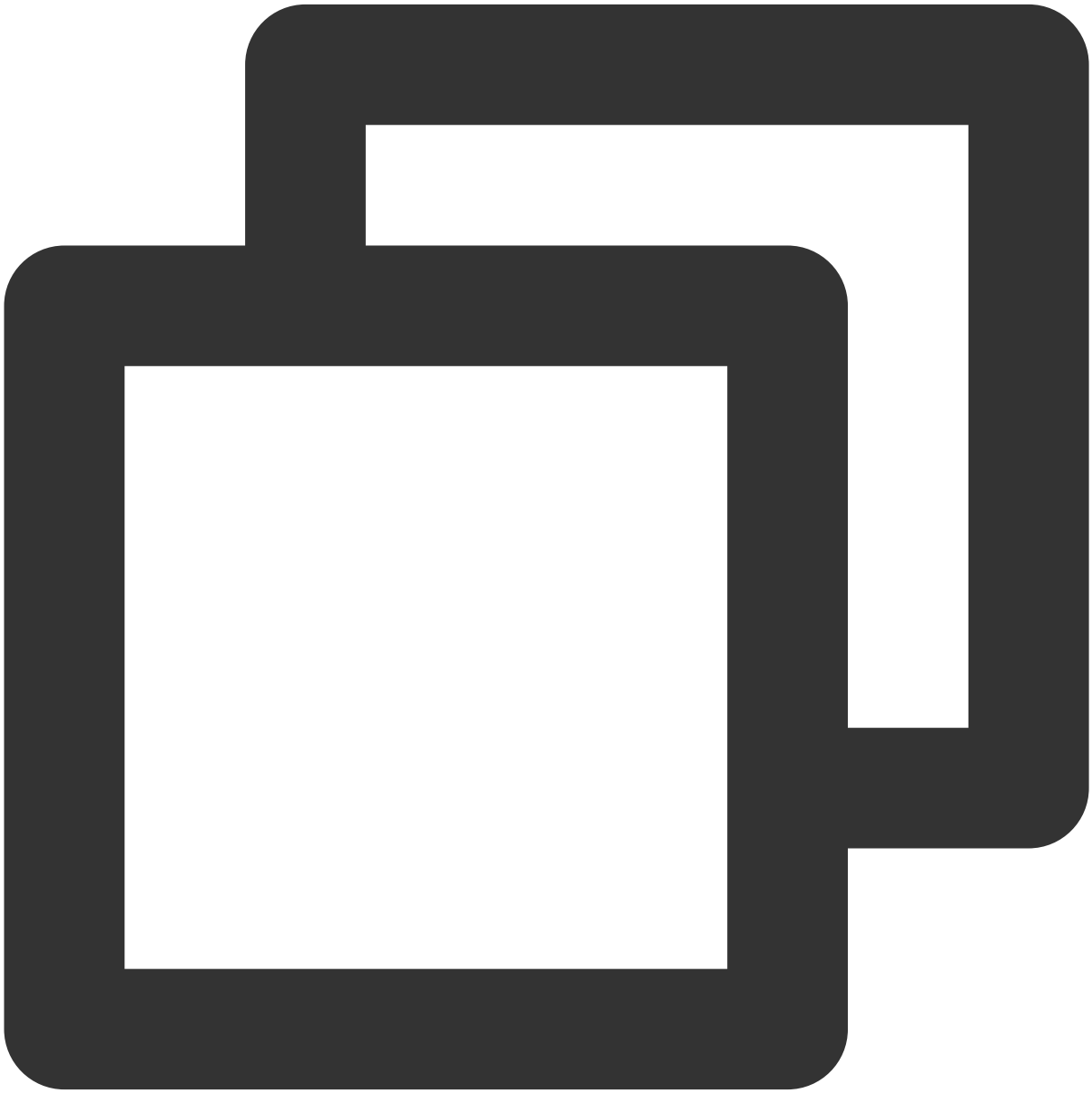
		creation API CreateMediaTemplate.		
AudioMix	Request.Operation.Transcode	Audio mix parameter as described in Structure.	Container array	No

`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	Result file name	String	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2MjIxNDVfHAUOSDHAOIHDOIyMmZkOTQ=
    [ContentType] => application/xml
    [ContentLength] => 803
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-beijing.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-22T11:30:13+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-beijing
                        )

                    [JobId] => j85803a96zx7c98z7xc987z9c6eb232
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => VideoMontage.mp4
                                    [Region] => ap-beijing
                                )

                            [TemplateId] => t1fcc3770199e0zx7cz897c9zxc9b
                            [TemplateName] => video-montage-1
                            [UserData] => xxx
                            [JobLevel] => 0
                        )

                    [QueueId] => p81e648af2aezx7c9z7xc98zx7c98e086
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => VideoMontage
                )
```

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```
            )

)
```

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Voice/Sound Separation Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for submitting a voice/sound separation job.

API	Description
Submitting a voice/sound separation job	Submits a voice/sound separation job.

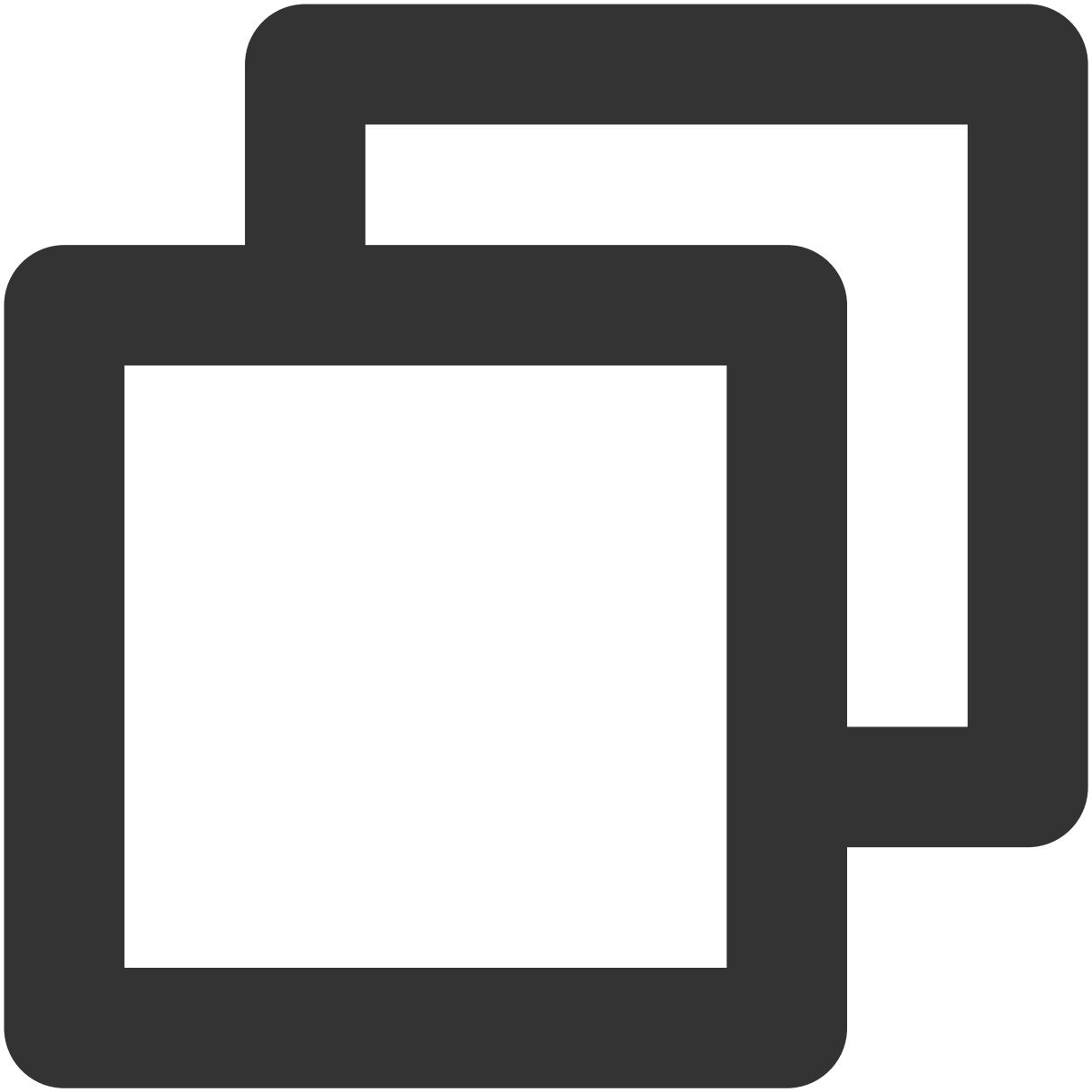
Submitting Voice/Sound Separation Job

Feature description

This API is used to submit a voice/sound separation job.

Method prototype

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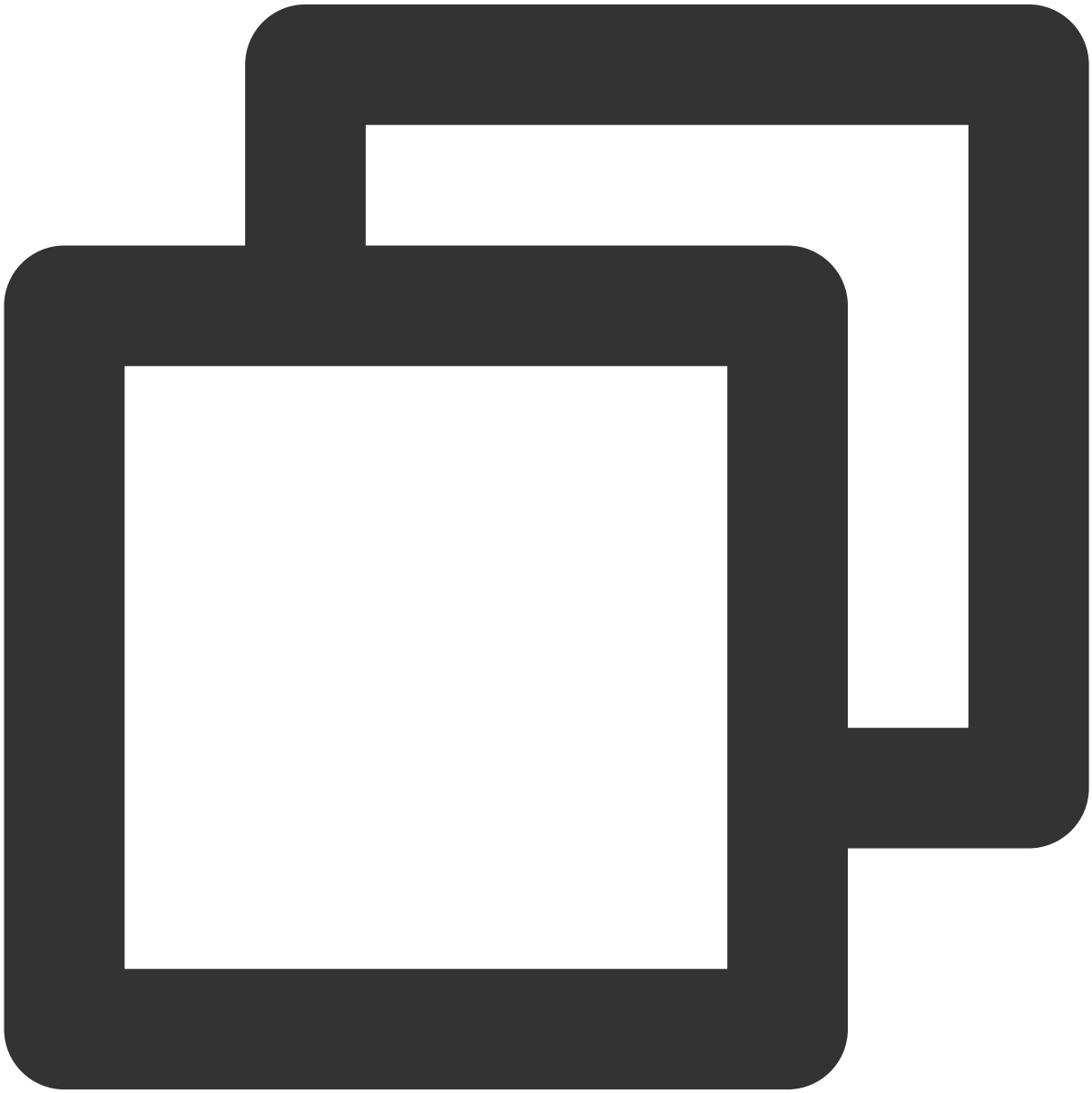


```
public Guzzle\\Service\\Resource\\Model createMediaVoiceSeparateJobs(array $args =
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

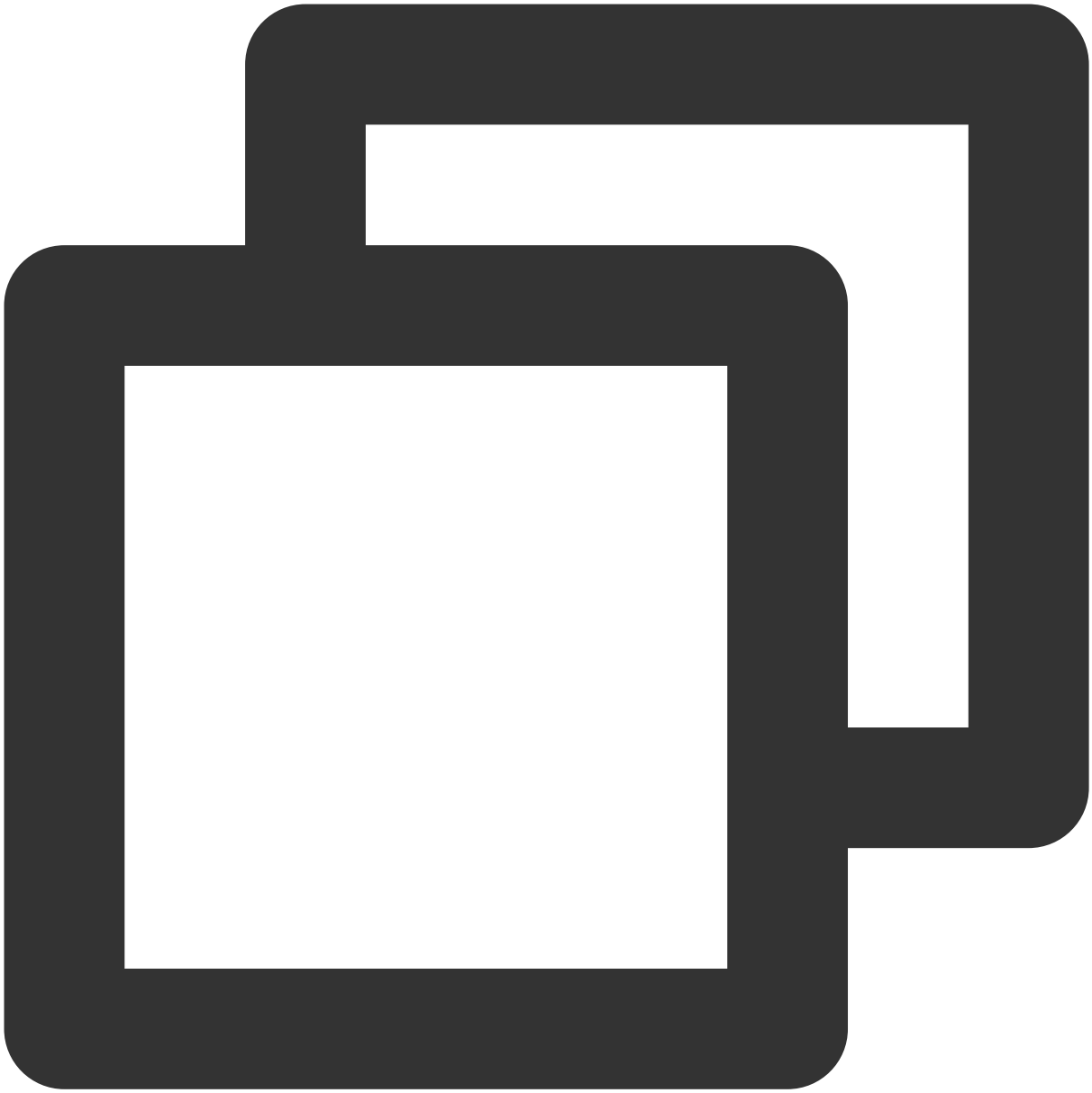
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaVoiceSeparateJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'VoiceSeparate',
        'QueueId' => '',
        'CallBack' => '',
        'Input' => array(
            'Object' => 'test.mp3'
        ),
        'Operation' => array(
            'TemplateId' => '',
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'VoiceSeparate01.mp3',
                'AuObject' => 'VoiceSeparate02.mp3',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaVoiceSeparateJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'VoiceSeparate',
        'QueueId' => '',
        'CallBack' => '',
        'Input' => array(
            'Object' => 'test.mp3'
        ),
        'Operation' => array(
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'VoiceSeparate01.mp3',
                'AuObject' => 'VoiceSeparate02.mp3',
            ),
            'VoiceSeparate' => array(
                'AudioMode' => 'AudioAndBackground',
                'AudioConfig' => array(
                    'Codec' => 'mp3',
                    'Samplerate' => '11025',
                    'Bitrate' => '256',
                    'Channels' => '2',
                ),
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: VoiceSeparate	String	Yes

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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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
VoiceSeparate	Request.Operation	Transcoding template parameter	Container	No
TemplateId	Request.Operation	Template ID	String	No
Output	Request.Operation	Result output address	Container	Yes
JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0`, `1`, `2`. Default value: `0`.	String	No

Note:

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`TemplateId` is used first. If `TemplateId` is unavailable, `VoiceSeparate` is used.

`VoiceSeparate` has the following sub-nodes:

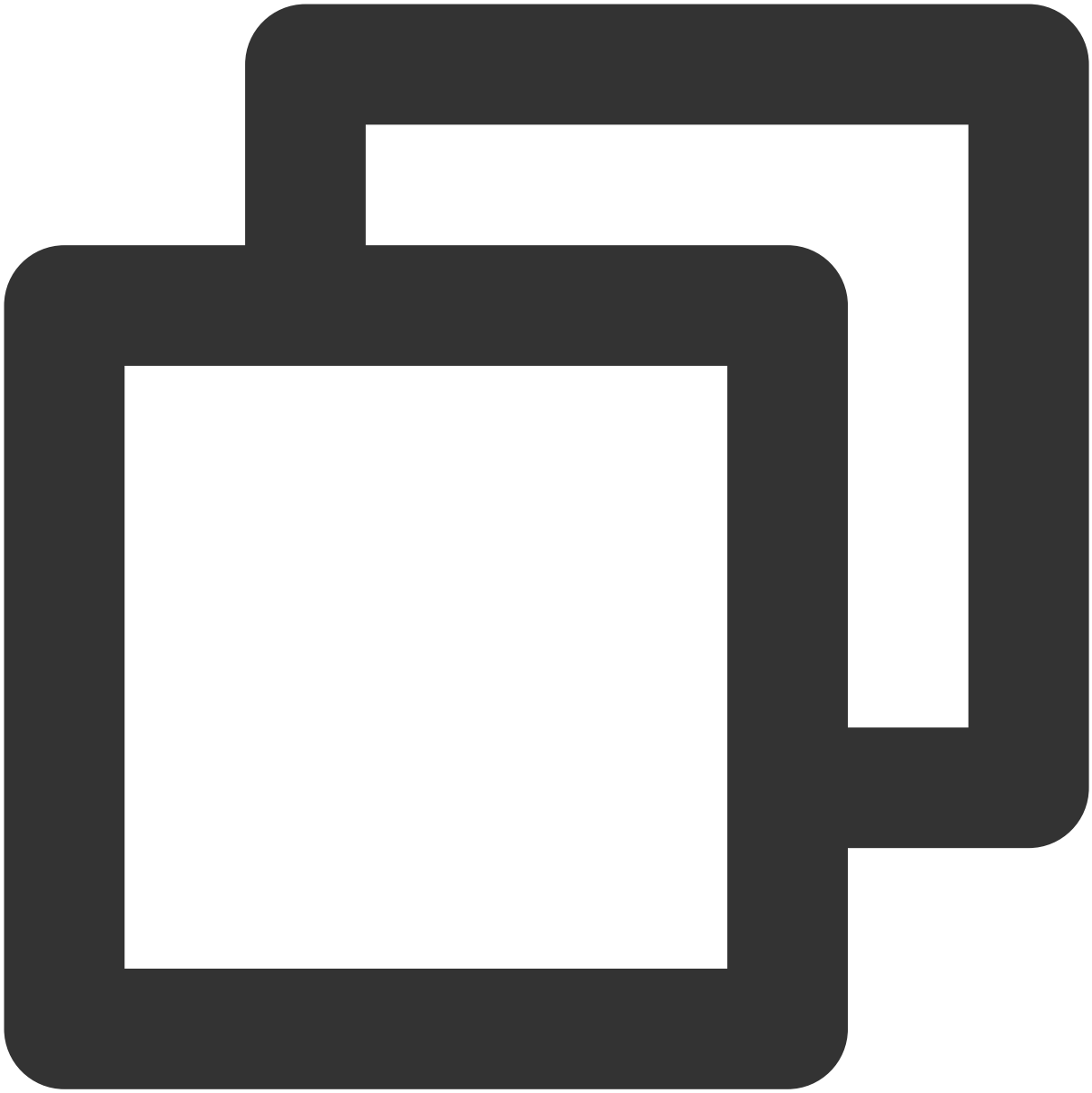
Node Name (Keyword)	Parent Node	Description	Type	Required
AudioMode	Request.Operation.VoiceSeparate	Same as `Request.AudioMode` in the voice/sound separation template creation API CreateMediaTemplate.	Container	No
AudioConfig	Request.Operation.VoiceSeparate	Same as `Request.AudioConfig` in the voice/sound separation template creation API CreateMediaTemplate.	Container	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	Background audio result filename. This node and `AuObject` cannot be empty at the same time.	String	No
AuObject	Request.Operation.AuObject	Voice/Sound result filename. This node and `Object` cannot be empty at the same time.	String	No

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2MjIyOTHADOHDOADJHOjQ0OV8yMmU0OWM=
    [ContentType] => application/xml
    [ContentLength] => 857
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-beijing.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-22T11:35:47+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => test.mp3
                            [Region] => ap-beijing
                        )

                    [JobId] => j4c70446zxc780z98xc09zxc6eb232
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [AuObject] => VoiceSeparate02.mp3
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => VoiceSeparate01.mp3
                                    [Region] => ap-beijing
                                )

                            [TemplateId] => t1456ea89fczx8c0z8c09z8c0985
                            [TemplateName] => VoiceSeparate-1
                            [UserData] => xxx
                            [JobLevel] => 0
                        )

                    [QueueId] => p81e648af2azc709zx8c09z8xc0z7be086
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => VoiceSeparate
                )
```

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```
            )

)
```

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SDR-to-HDR Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for SDR-to-HDR jobs.

API	Description
Submitting an SDR-to-HDR job	Submits an SDR-to-HDR job.

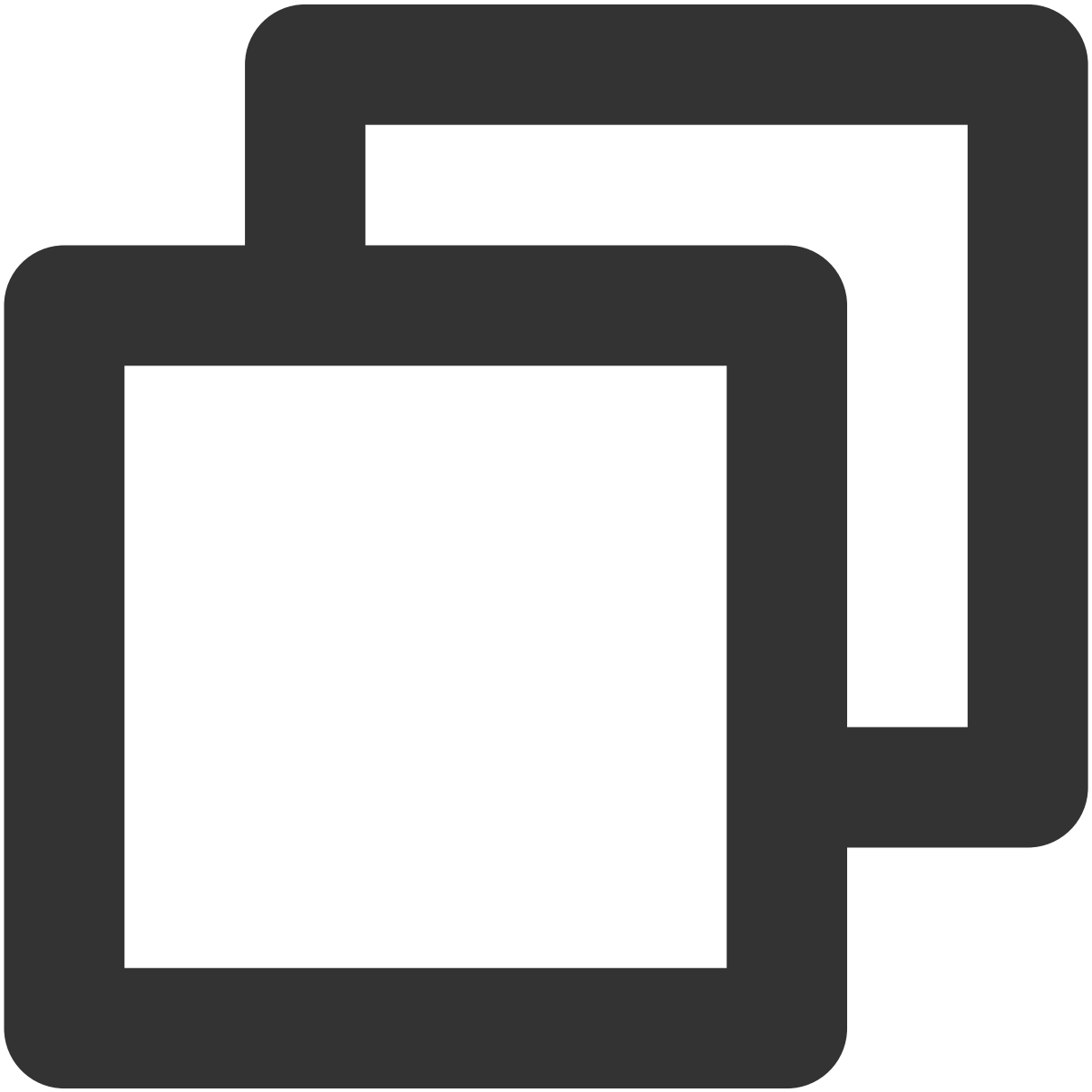
Submitting SDR-to-HDR Job

Feature description

This API is used to submit an SDR-to-HDR job.

Method prototype

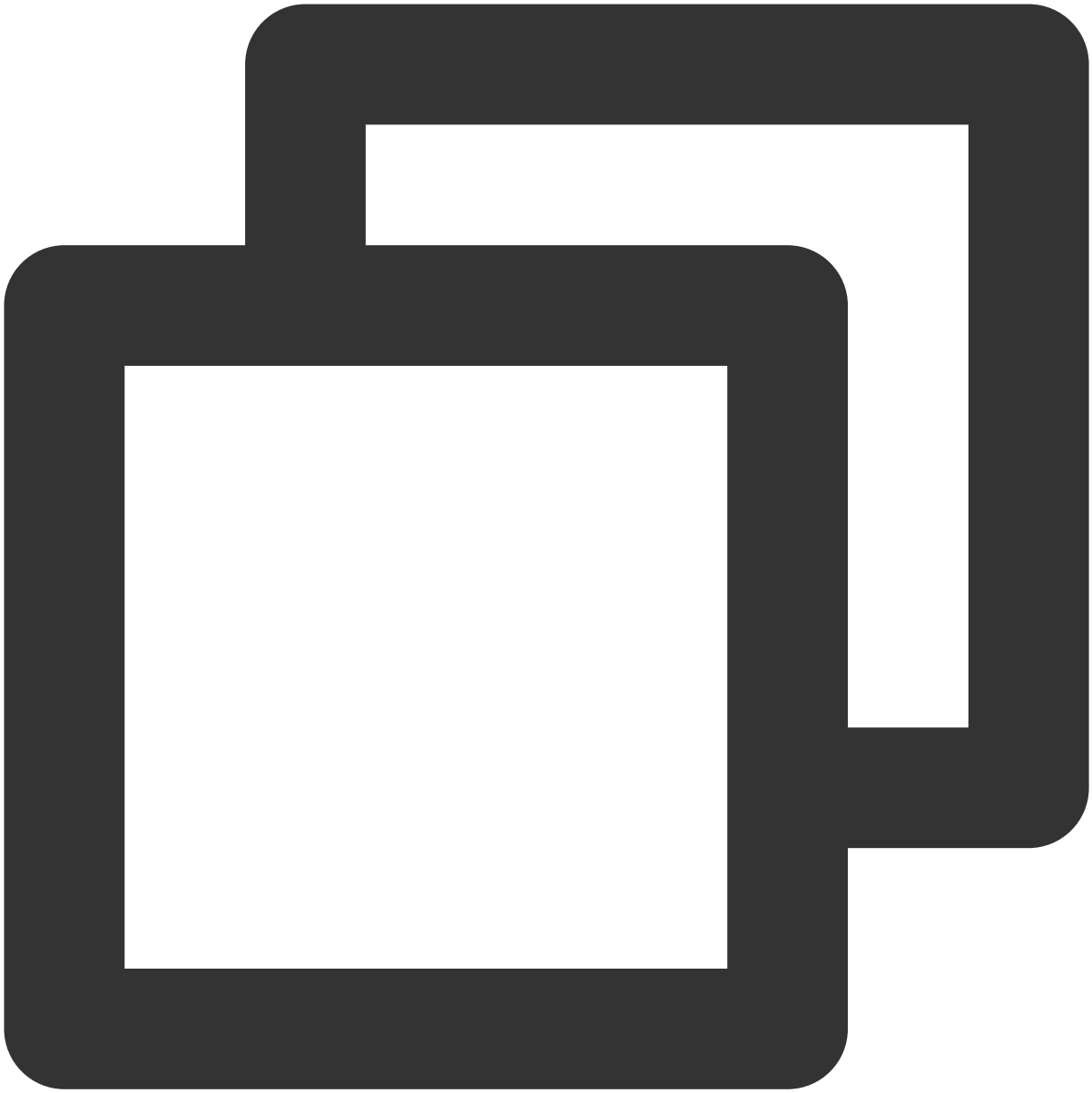
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```
public Guzzle\\Service\\Resource\\Model createMediaSDRtoHDRJobs(array $args = array
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Submit an SDR-to-HDR job. For more information, visit https://intl.cloud.ten
    $result = $cosClient->createMediaSDRtoHDRJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'SDRtoHDR',
        'QueueId' => 'p81e648af2aee496885a8d09a8s09d8a0sd6',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'TranscodeTemplateId' => '',
            'WatermarkTemplateId' => '',
            'SDRtoHDR' => array(
                'HdrMode' => 'HLG',
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'SDRtoHDR.flv',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: SDRtoHDR	String	Yes
Input	Request	Information of the media file to be processed	Container	Yes
Operation	Request	Operation rule	Container	Yes

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QueueId	Request	Queue ID of the job	String	Yes
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
SDRtoHDR	Request.Operation	SDR-to-HDR parameter	Container	Yes
Transcode	Request.Operation	Transcoding template parameter. This node and `TranscodeTemplateId` cannot be empty at the same time.	Container	No
TranscodeTemplateId	Request.Operation	Transcoding template ID. This node and `Transcode` cannot be empty at the same time. Use this node first.	String	No
Watermark	Request.Operation	Watermark template parameter. Same as `Request.Watermark` in the watermark template creation API	Container array	No

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		CreateMediaTemplate. Up to three watermarks can be passed in.		
WatermarkTemplateId	Request.Operation	Watermark template ID. Up to three watermark template IDs can be passed in. If `Watermark` and `WatermarkTemplateId` exist at the same time, use `WatermarkTemplateId` first.	String array	No
Output	Request.Operation	Result output address	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

Note:

To submit an SDR-to-HDR job, you must pass in the transcoding parameter. For the transcoding parameter, `TranscodeTemplateId` is used first, and if `TranscodeTemplateId` is unavailable, `Transcode` is used. For the watermark parameter, `WatermarkTemplateId` or `Watermark` can be used for configuration, and `WatermarkTemplateId` is used first.

`SDRtoHDR` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
HdrMode	Request.Operation.SDRtoHDR	HDR mode	String	Yes	1. HLG. 2. HDR10.

`Transcode` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TimeInterval	Request.Operation.Transcode	Same as `Request.TimeInterval` in the transcoding template creation API CreateMediaTemplate.	Container	No

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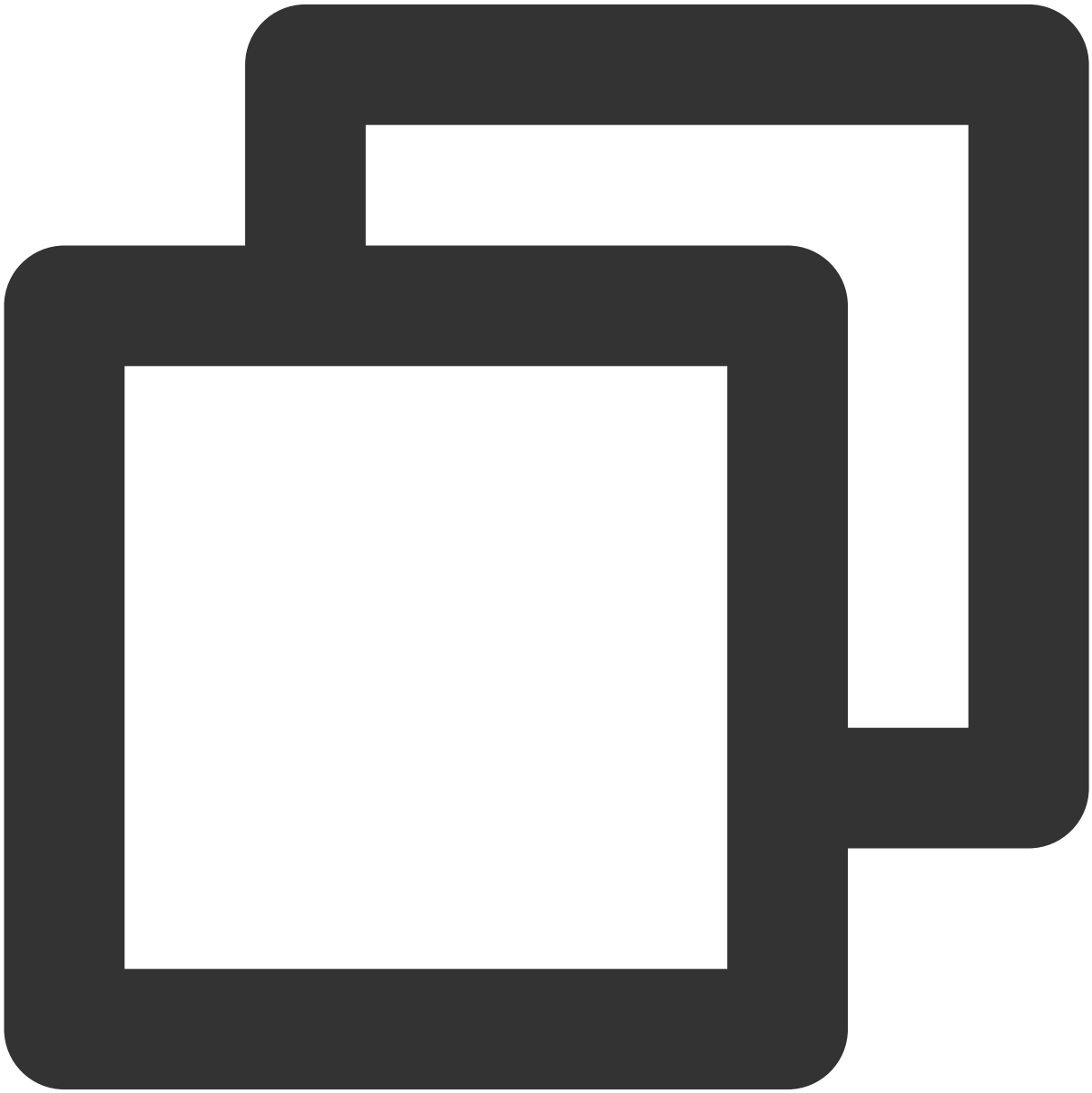
Container	Request.Operation.Transcode	Same as `Request.Container` in the transcoding template creation API CreateMediaTemplate.	Container	No
Video	Request.Operation.Transcode	Same as `Request.Video` in the transcoding template creation API CreateMediaTemplate.	Container	No
Audio	Request.Operation.Transcode	Same as `Request.Audio` in the transcoding template creation API CreateMediaTemplate.	Container	No
TransConfig	Request.Operation.Transcode	Same as `Request.TransConfig` in the transcoding template creation API CreateMediaTemplate.	Container	No
AudioMix	Request.Operation.Transcode	Audio mix parameter as described in Structure.	Container array	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	Result file name	String	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2N2I1NWFfZmNjYTNHDOASJDOIA1Yw==
    [ContentType] => application/xml
    [ContentLength] => 902
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-26T17:03:22+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-guangzhou
                        )

                    [JobId] => jb9289626c53f11ec8a9c4f3d8d099dcb
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => SDRtoHDR.flv
                                    [Region] => ap-guangzhou
                                )

                            [SDRtoHDR] => Array
                                (
                                    [HdrMode] => HLG
                                )

                            [TranscodeTemplateId] => t0b612860a293f410785ba7s8d09a8
                            [WatermarkTemplateId] => t185e2e24551b242d09a80d8a0d804
                            [UserData] => xxx
                            [JobLevel] => 0
                        )

                    [QueueId] => t185e2e24551b242d09a80d8a0d80428a19c
```

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```
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => SDRtoHDR
                )

        )

)
```

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Digital Watermark Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for digital watermark.

API	Description
Submitting a digital watermark adding job	Submits a digital watermark adding job.
Submitting a digital watermark extracting job	Submits a digital watermark extracting job.

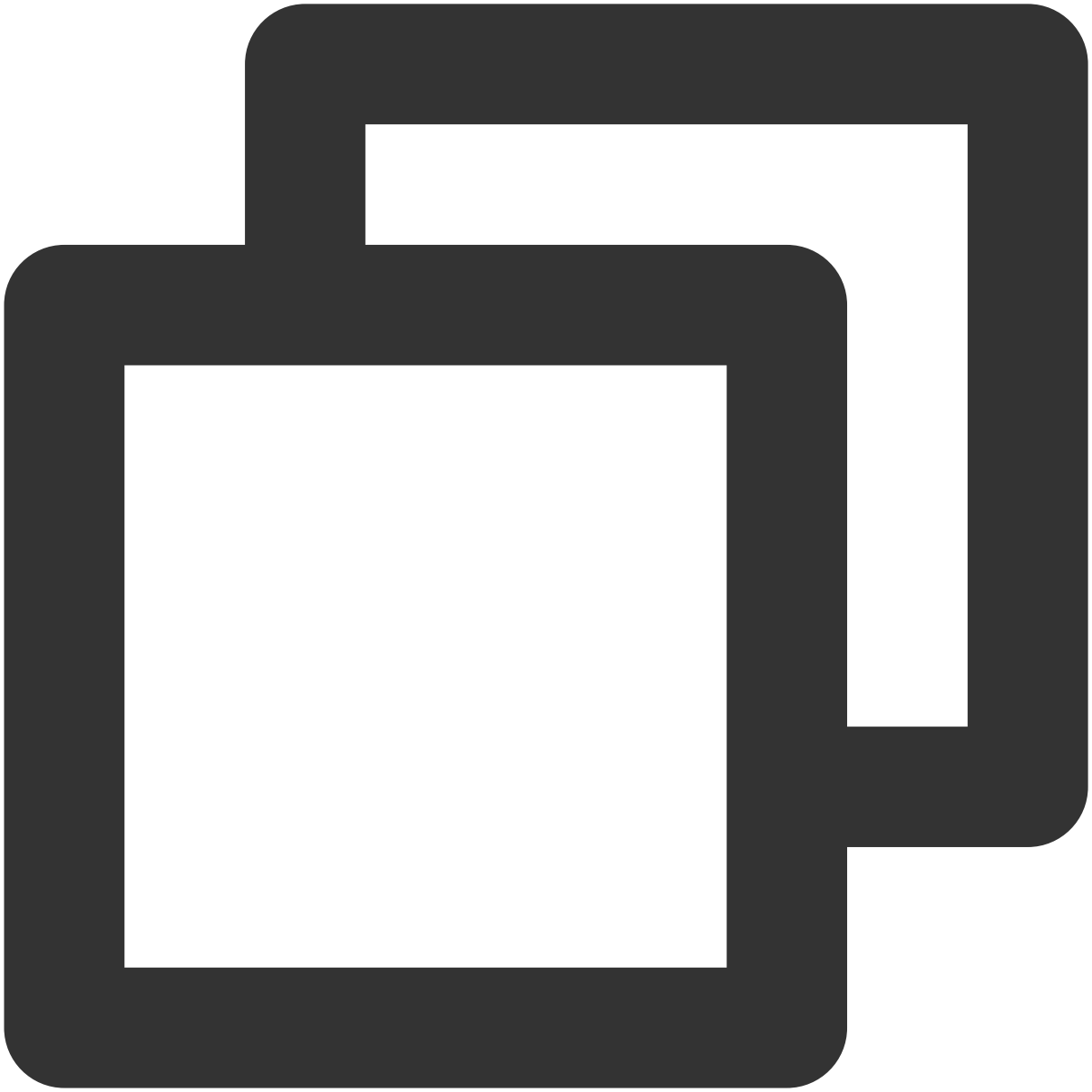
Digital Watermark Adding Job

Feature description

This API is used to submit a digital watermark adding job.

Method prototype

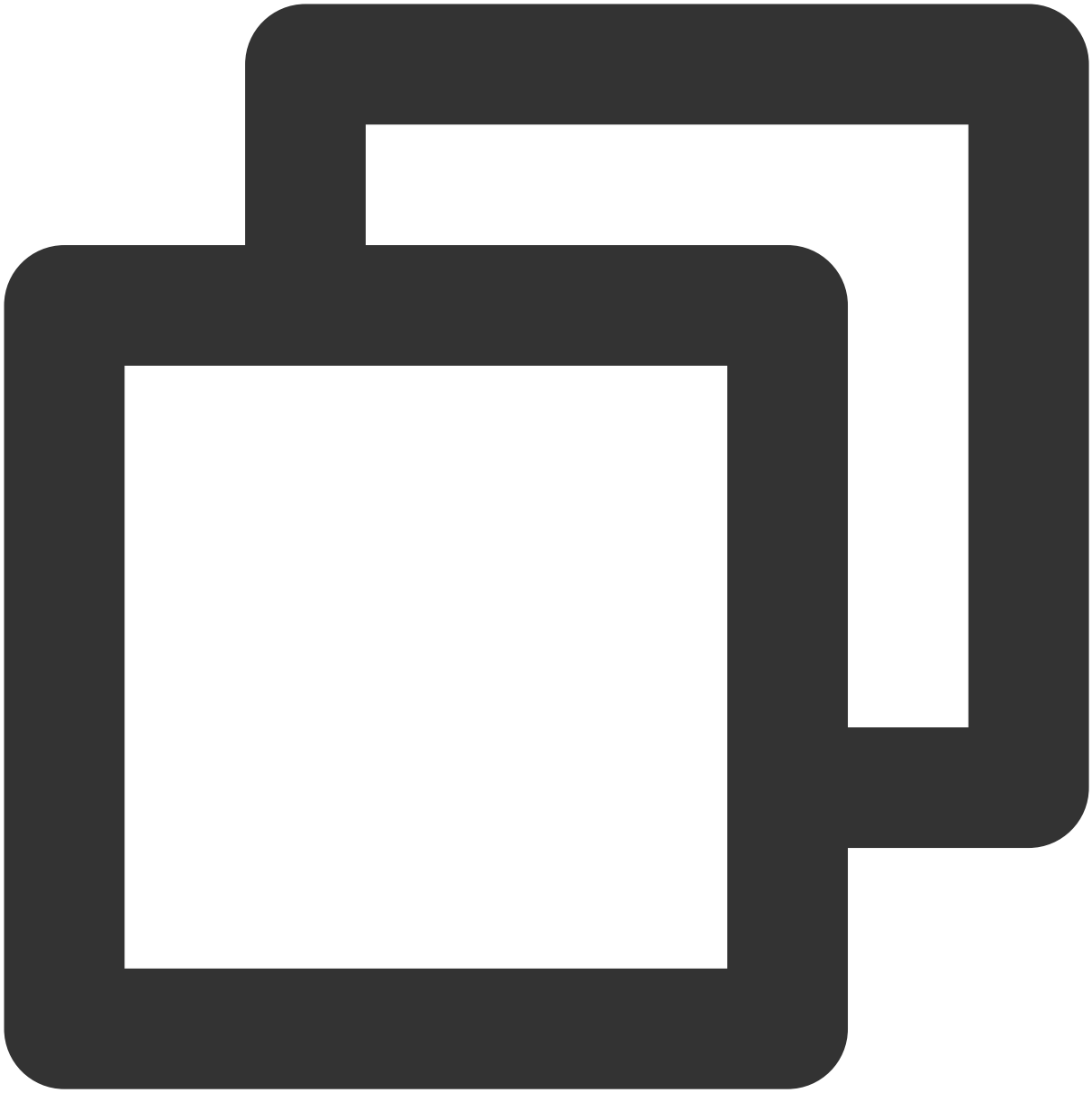
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```
public Guzzle\\Service\\Resource\\Model createMediaDigitalWatermarkJobs(array $args
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Submit a digital watermark adding job. For more information, visit https://i
    $result = $cosClient->createMediaDigitalWatermarkJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'DigitalWatermark',
        'QueueId' => 'p81e648af2aee496885707caxxxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'DigitalWatermark' => array(
                'Message' => '123456789ab',
                'Type' => 'Text',
                'Version' => 'V1',
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'DigitalWatermark.mp4',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: DigitalWatermark	String	Yes
Input	Request	Information of the media file to be processed	Container	Yes
Operation	Request	Operation rule	Container	Yes

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QueueId	Request	Queue ID of the job	String	Yes
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Output	Request.Operation	Result output address	Container	Yes
DigitalWatermark	Request.Operation	Digital watermark configuration	Container	Yes
JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0`, `1`, `2`. Default value: `0`.	String	No
UserData	Request.Operation	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No

`DigitalWatermark` has the following sub-nodes:

Node Name	Parent Node	Description	Type	Required	Constraints

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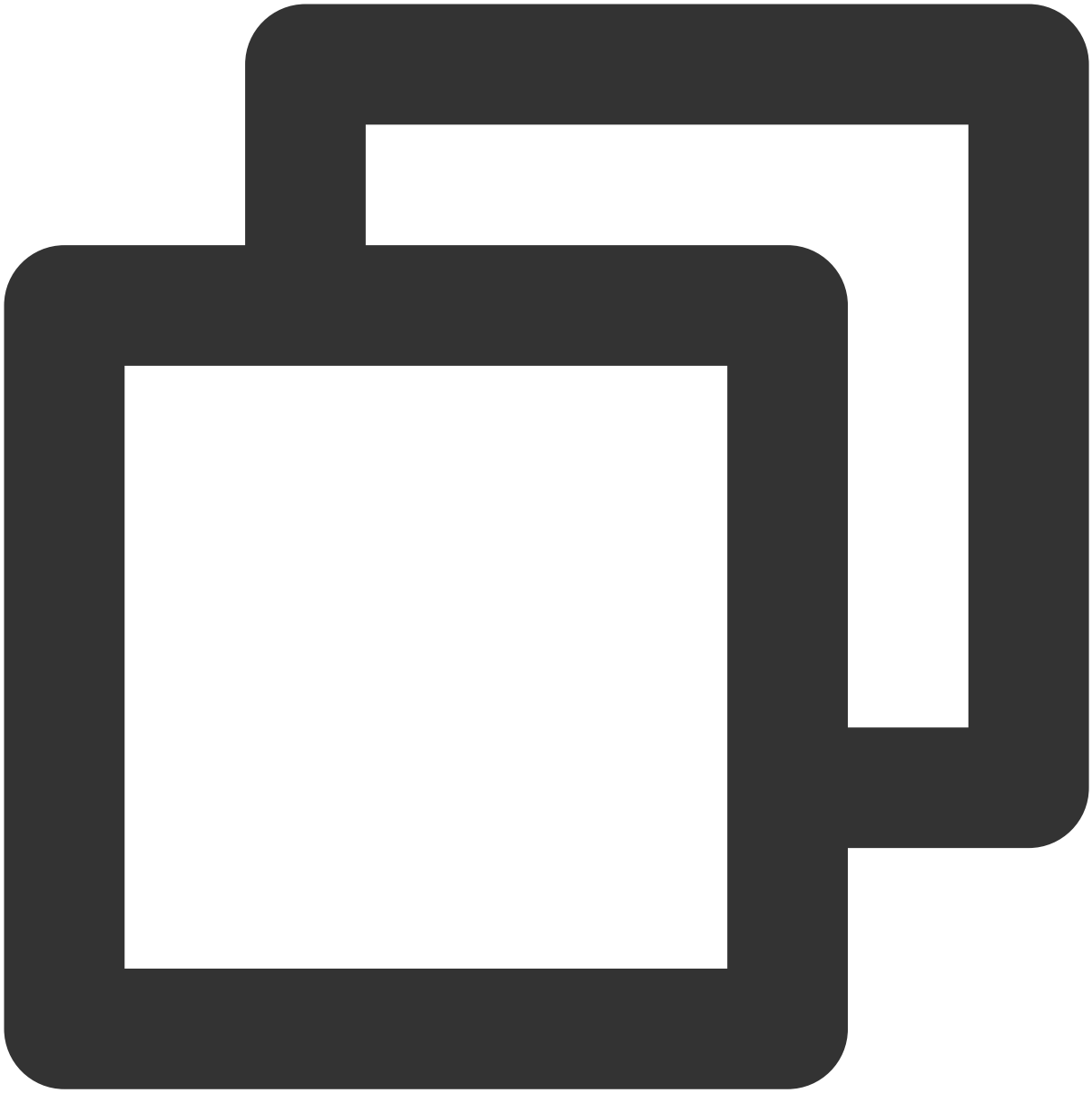
(Keyword)					
Message	Request.Operation.DigitalWatermark	The string embedded by the digital watermark	string	Yes	It can contain up to 64 letters, digits, underscores (_), hyphens (-), and asterisks (*).
Type	Request.Operation.DigitalWatermark	Watermark type	String	Yes	Text
Version	Request.Operation.DigitalWatermark	Watermark version	String	Yes	V1

`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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2N2JlMDFfZmNjYAJSDIOAJDOIAJD9lZDYxOA==
    [ContentType] => application/xml
    [ContentLength] => 828
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-26T17:40:17+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-guangzhou
                        )

                    [JobId] => je1dc03f0c544as09d8as09d8a09dec25a93
                    [Message] =>
                    [Operation] => Array
                        (
                            [DigitalWatermark] => Array
                                (
                                    [Message] => 123456789ab
                                    [Type] => Text
                                    [Version] => V1
                                )

                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => DigitalWatermark.mp4
                                    [Region] => ap-guangzhou
                                )
                            [UserData] => xxx
                            [JobLevel] => 0

                        )

                    [QueueId] => p81e648af2aee49688570s8a90d80a9d86
```

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```
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => DigitalWatermark
                )

        )

)
```

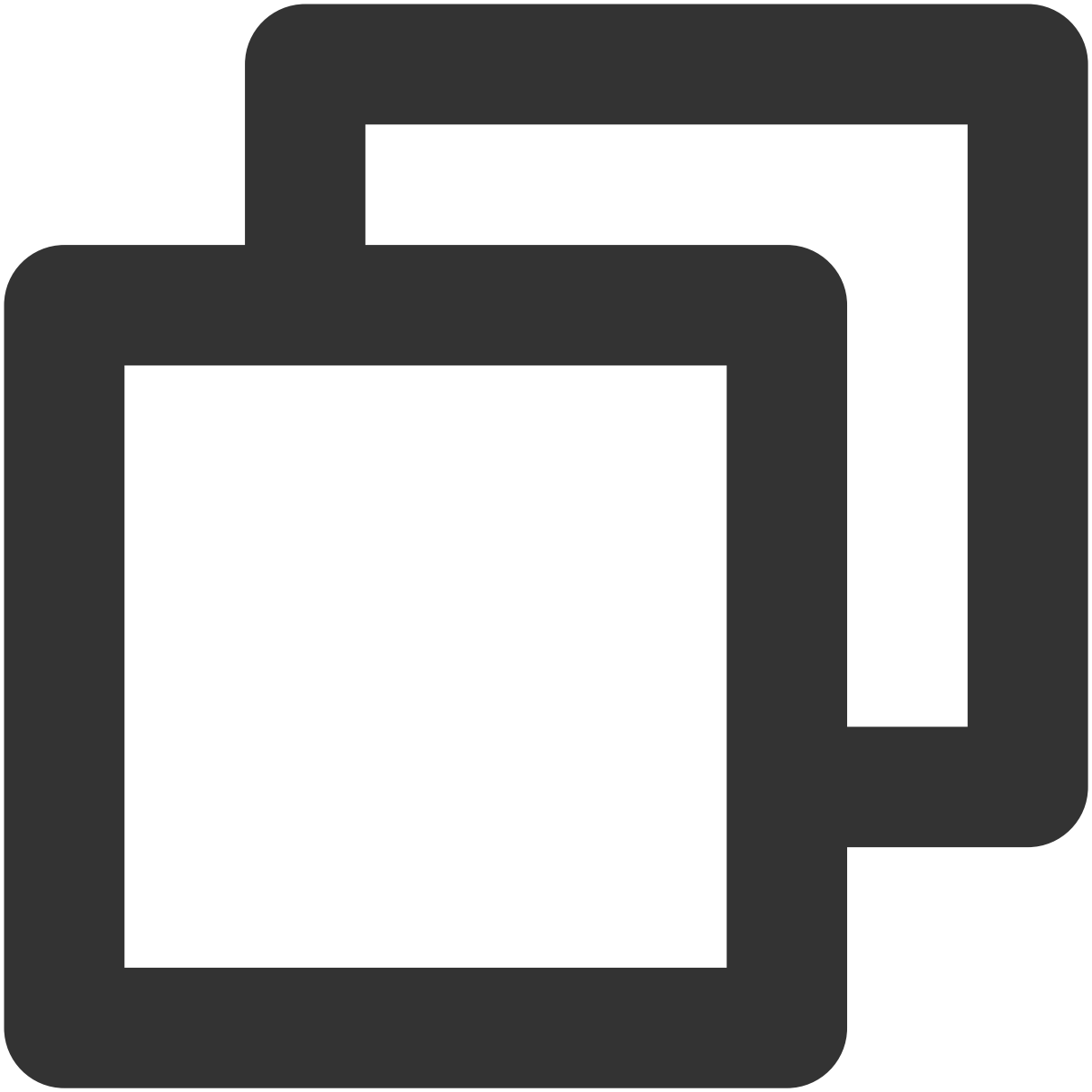
Digital Watermark Extracting Job

Feature description

This API is used to submit a digital watermark extracting job.

Method prototype

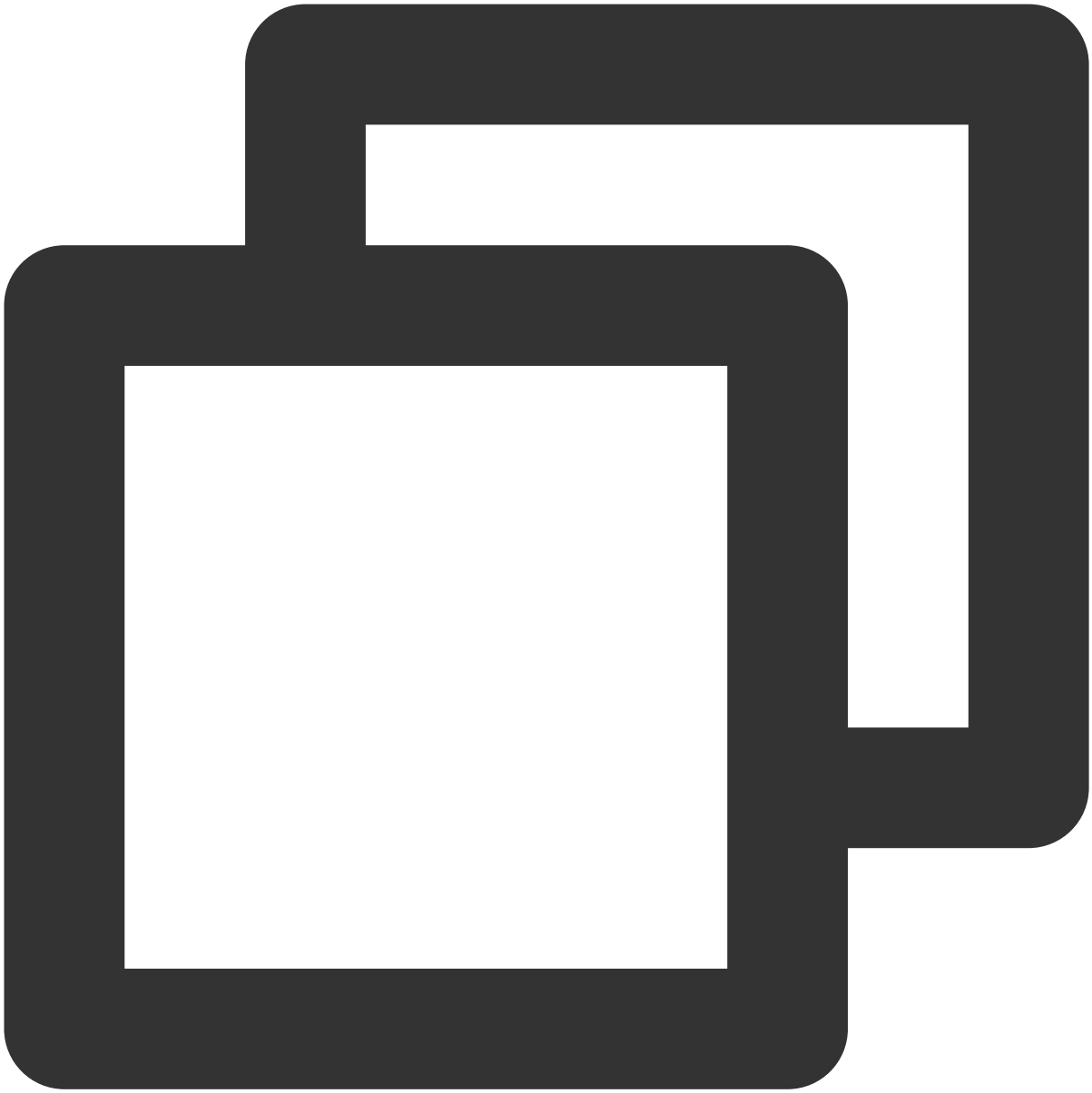
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```
public Guzzle\\Service\\Resource\\Model createMediaExtractDigitalWatermarkJobs(arra
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Submit a digital watermark extracting job. For more information, visit https
    $result = $cosClient->createMediaExtractDigitalWatermarkJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'ExtractDigitalWatermark',
        'QueueId' => 'p81e648af2aee496885707caxxxxxxxxx',
        'Input' => array(
            'Object' => 'DigitalWatermark.mp4'
        ),
        'Operation' => array(
            'ExtractDigitalWatermark' => array(
                'Type' => 'Text',
                'Version' => 'V1',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: ExtractDigitalWatermark	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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No

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CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
ExtractDigitalWatermark	Request.Operation	Digital watermark extraction configuration	Container	Yes
JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0`, `1`, `2`. Default value: `0`.	String	No
UserData	Request.Operation	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String	No

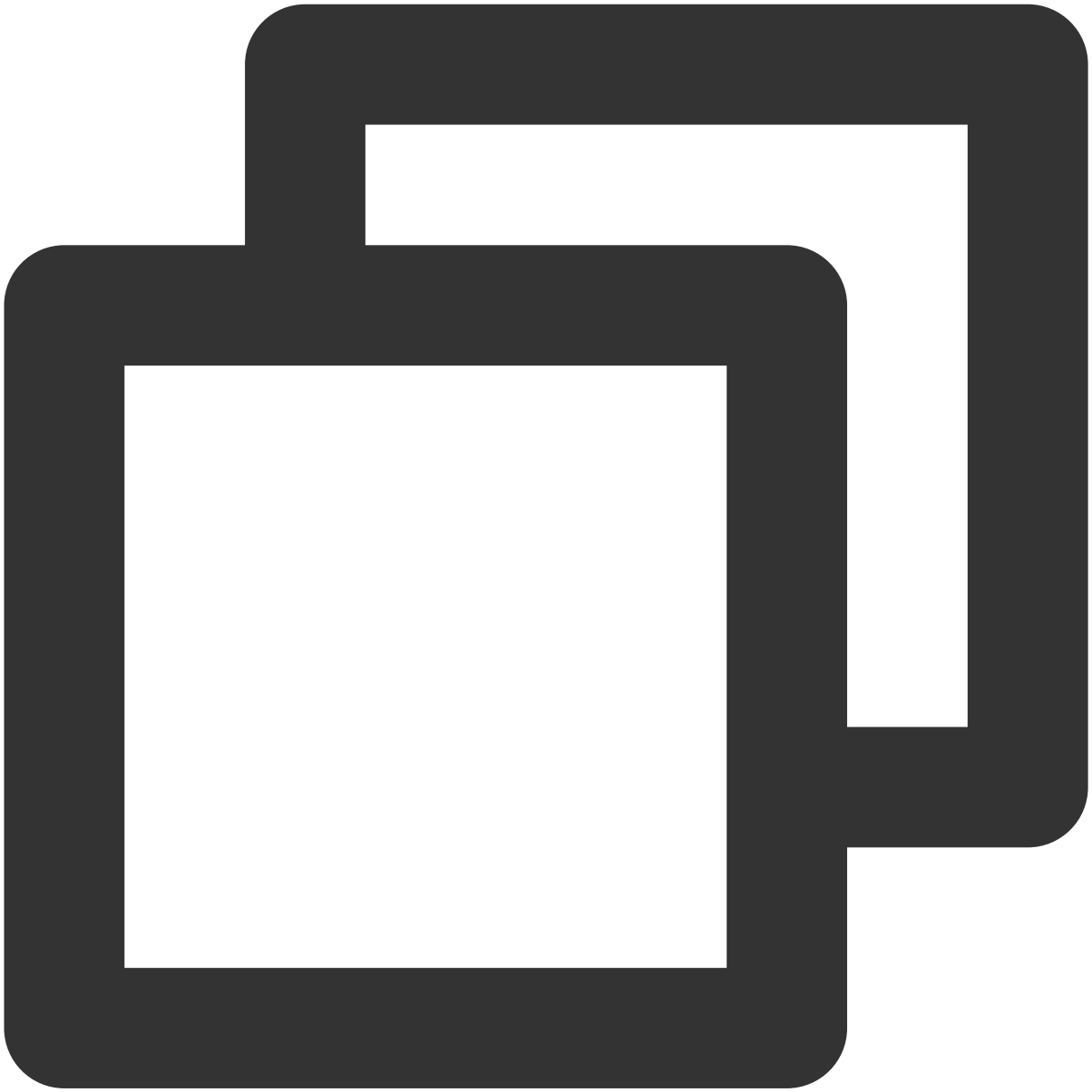
`ExtractDigitalWatermark` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Type	Request.Operation.ExtractDigitalWatermark	Watermark type	String	Yes	Text
Version	Request.Operation.ExtractDigitalWatermark	Watermark	String	Yes	V1

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		version			

Sample response



```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
```

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```
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
                (
                )

        )

    [RequestId] => NjI2OGI4YmZfZmNjYTNiAOISDAOIDUOMjU4ZjE=
    [ContentType] => application/xml
    [ContentLength] => 680
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-27T11:30:07+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => DigitalWatermark.mp4
                            [Region] => ap-guangzhou
                        )

                    [JobId] => j56038a4cc5da1a8s0d98a90sd806cf06
                    [Message] =>
                    [Operation] => Array
                        (
                            [ExtractDigitalWatermark] => Array
                                (
                                    [Type] => Text
                                    [Version] => V1
                                )
                            [UserData] => xxx
                            [JobLevel] => 0
                        )

                    [QueueId] => p81e648af2aee4z9x8c09z8xc09zbe086
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => ExtractDigitalWatermark
                )
```

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```
            )

)
```

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Super Resolution Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for super resolution.

API	Description
Submitting a super resolution job	Submits a super resolution job.

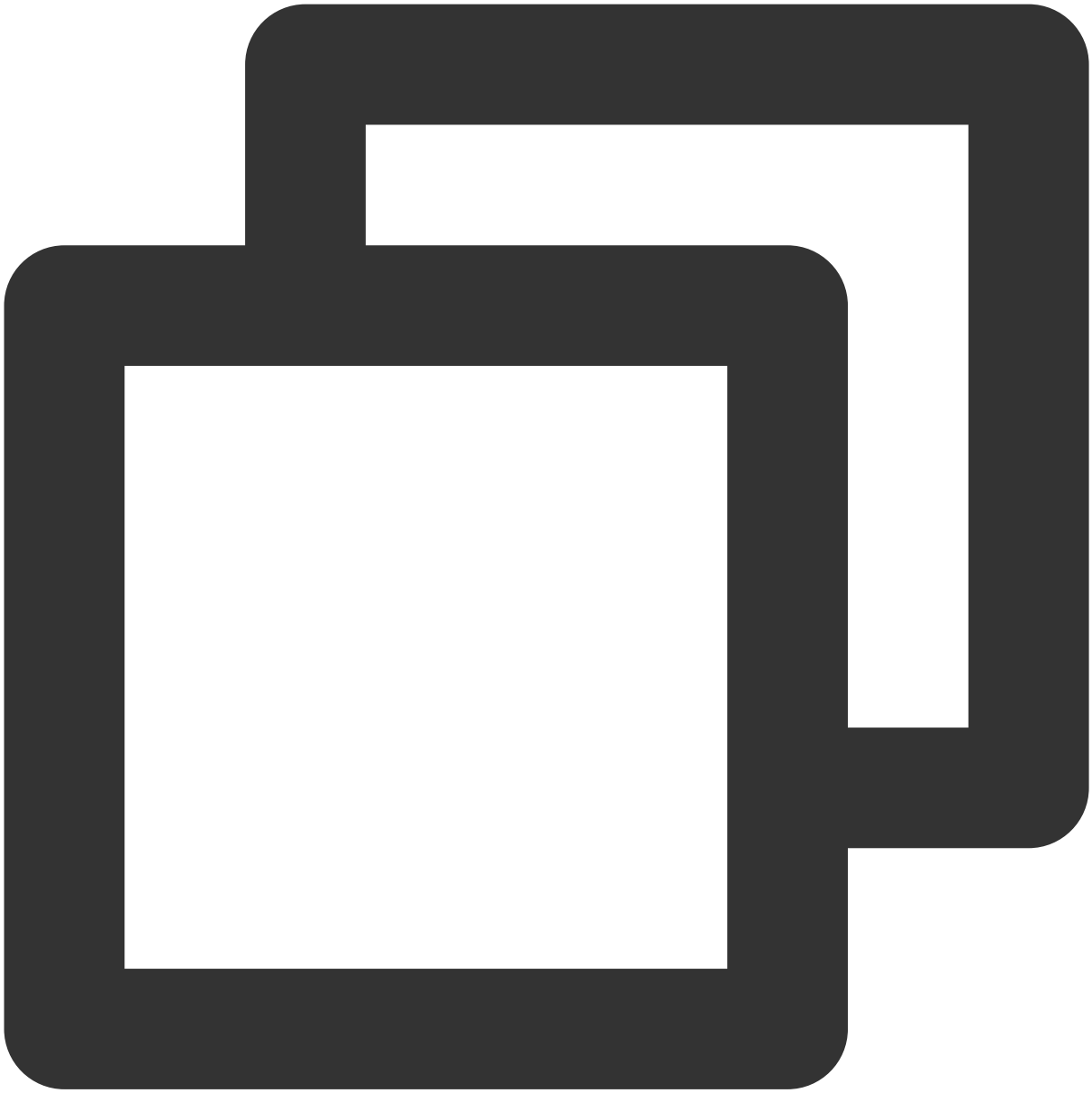
Submitting Super Resolution Job

Feature description

Submitting a Super Resolution Task

Method prototype

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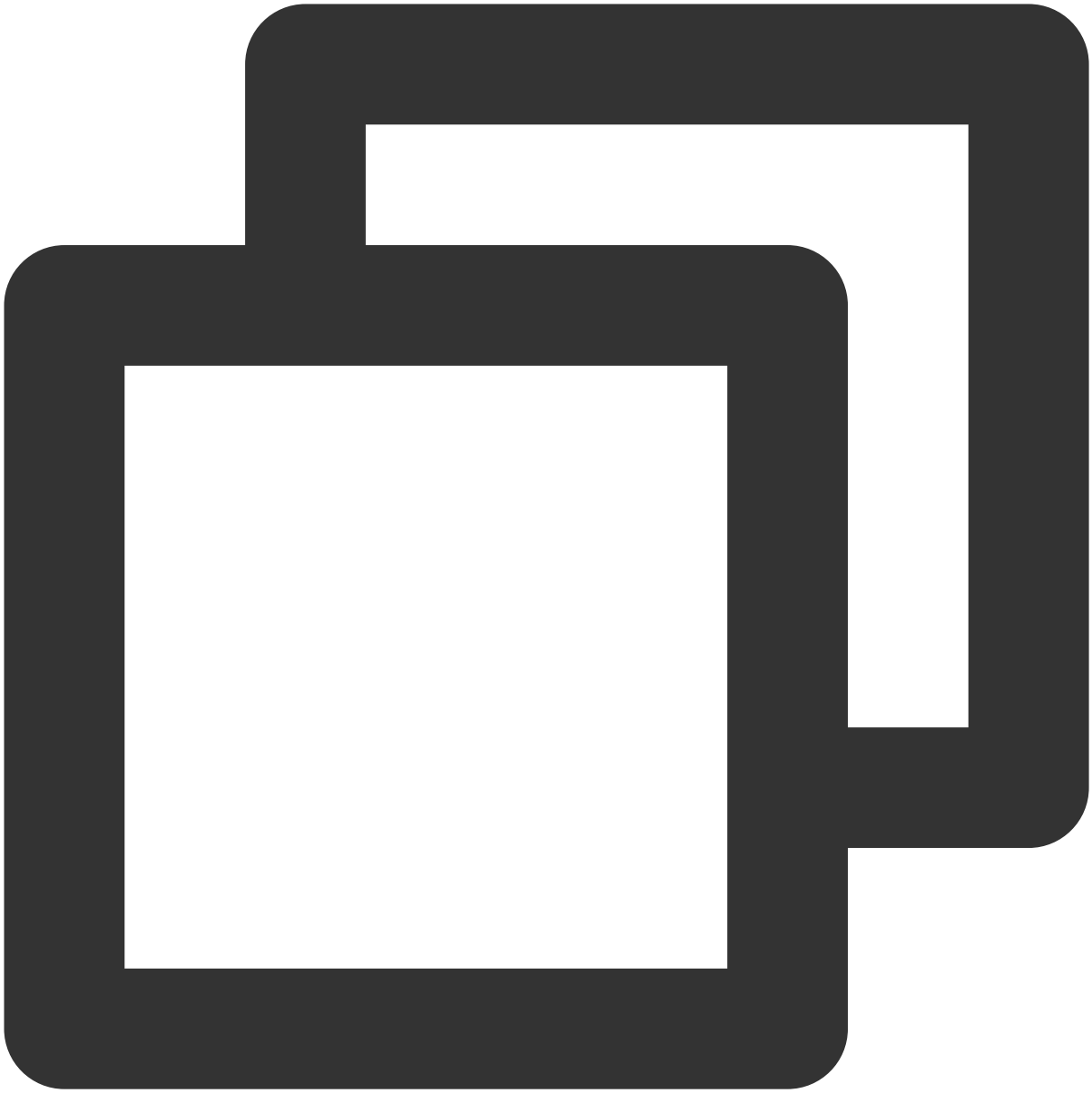


```
public Guzzle\\Service\\Resource\\Model createMediaSuperResolutionJobs(array $args
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

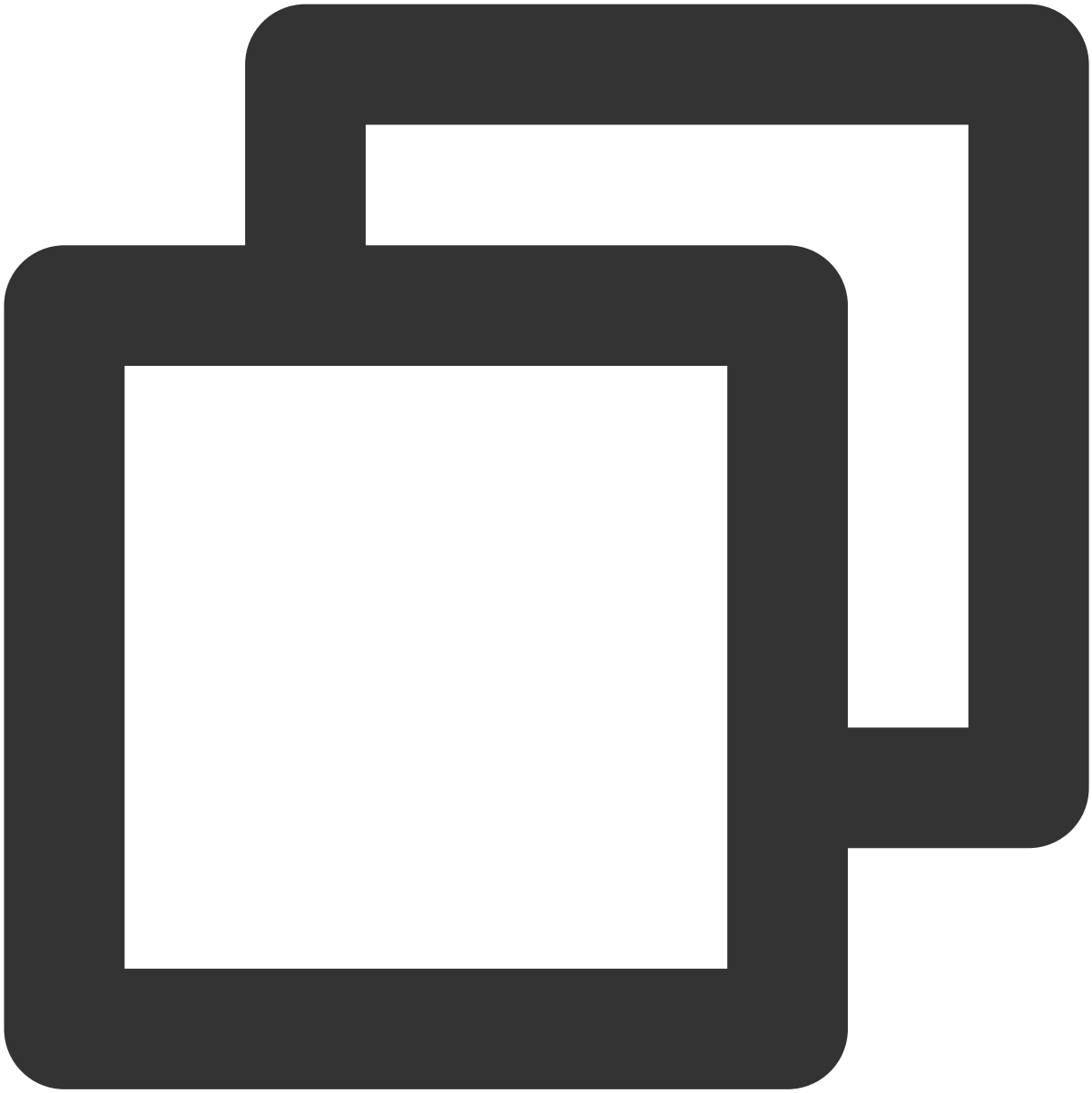
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaSuperResolutionJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'SuperResolution',
        'QueueId' => 'p81e648af2aee49688570xxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'TemplateId' =>'t19ea5e0c0b7054d7b904axxxxxxxxxxx',
            'TranscodeTemplateId' =>'t0b612860a293f41078xxxxxxxxxx',
            'WatermarkTemplateId' =>'t185e2e24551b24259a02xxxxxxxxxx',
            'DigitalWatermark' => array(
                'Message' => 'xxx',
                'Type' => 'Text',
                'Version' => 'V1',
                'IgnoreError' => 'true',
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'SuperResolution.flv',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaSuperResolutionJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'SuperResolution',
        'QueueId' => 'p81e648af2aee49688570xxxxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'SuperResolution' => array(
                'Resolution' => '',
                'EnableScaleUp' => '',
            ),
            'Transcode' => array(
                'Tag' => '',
                'Name' => '',
                'Container' => array(
                    'Format' => '',
                ),
                'Video' => array(
                    'Codec' => '',
                    'Width' => '',
                    'Height' => '',
                    'Fps' => '',
                    'Remove' => '',
                    'Profile' => '',
                    'Bitrate' => '',
                    'Crf' => '',
                    'Gop' => '',
                    'Preset' => '',
                    'Bufsize' => '',
                    'Maxrate' => '',
                    'HlsTsTime' => '',
                    'Pixfmt' => '',
                    'LongShortMode' => '',
                ),
                'TimeInterval' => array(
                    'Start' => '',
                    'Duration' => '',
                ),
                'Audio' => array(
                    'Codec' => '',
                    'Samplerate' => '',
                    'Bitrate' => '',
```

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```
                'Channels' => '',
                'Remove' => '',
                'KeepTwoTracks' => '',
                'SwitchTrack' => '',
                'SampleFormat' => '',
            ),
            'TransConfig' => array(
                'AdjDarMethod' => '',
                'IsCheckReso' => '',
                'ResoAdjMethod' => '',
                'IsCheckVideoBitrate' => '',
                'VideoBitrateAdjMethod' => '',
                'IsCheckAudioBitrate' => '',
                'AudioBitrateAdjMethod' => '',
                'DeleteMetadata' => '',
                'IsHdr2Sdr' => '',
                'HlsEncrypt' => array(
                    'IsHlsEncrypt' => '',
                    'UriKey' => '',
                ),
            ),
        ),
        'Watermark' => array(
            'Type' => '',
            'Pos' => '',
            'LocMode' => '',
            'Dx' => '',
            'Dy' => '',
            'StartTime' => '',
            'EndTime' => '',
            'Image' => array(
                'Url' => '',
                'Mode' => '',
                'Width' => '',
                'Height' => '',
                'Transparency' => '',
                'Background' => '',
            ),
            'Text' => array(
                'FontSize' => '',
                'FontType' => '',
                'FontColor' => '',
                'Transparency' => '',
                'Text' => '',
            ),
        ),
        'DigitalWatermark' => array(
```

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```
                'Message' => '',
                'Type' => '',
                'Version' => '',
                'IgnoreError' => '',
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'SuperResolution.flv',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: SuperResolution	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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ` . It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over that of the queue. If it is set to `no` , no	String	No

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		callbacks will be generated at the callback address of the queue.		
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure, 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	Media filename	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
SuperResolution	Request.Operation	Super resolution template parameter. This node and `TemplateId` cannot be empty at the same time.	Container	No
TemplateId	Request.Operation	Super resolution template ID, which is used first. This node and `SuperResolution` cannot be empty at the same time.	String	No
Transcode	Request.Operation	Transcoding template parameter. This node and `TranscodeTemplateId` cannot be empty at the same time.	Container	No
TranscodeTemplateId	Request.Operation	Transcoding template ID. This node and `Transcode` cannot be empty at the same time. Use this node first.	String	No
Watermark	Request.Operation	Watermark template parameter. Same as `Request.Watermark` in the watermark template creation API CreateMediaTemplate. Up to three watermarks can be passed in.	Container array	No

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WatermarkTemplateId	Request.Operation	Watermark template ID. Up to three watermark template IDs can be passed in. If `Watermark` and `WatermarkTemplateId` exist at the same time, use `WatermarkTemplateId` first.	String array	No
DigitalWatermark	Request.Operation	Specifies the digital watermark parameter	Container	No
Output	Request.Operation	Result output address	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

Note:

To submit a super resolution job, you must pass in the transcoding parameter. For the super resolution parameter, `TemplateId` is used first, and if `TemplateId` is unavailable, `SuperResolution` is used. For the transcoding parameter, `TranscodeTemplateId` is used first, and if `TranscodeTemplateId` is unavailable, `Transcode` is used. For the watermark parameter, `WatermarkTemplateId` or `Watermark` can be used for configuration, and `WatermarkTemplateId` is used first.

`SuperResolution` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Require
Resolution	Request.Operation.SuperResolution	Same as `Request.Resolution` in the super resolution template creation API CreateMediaTemplate.	String	Yes
EnableScaleUp	Request.Operation.SuperResolution	Same as `Request.EnableScaleUp` in the super resolution template creation API CreateMediaTemplate.	String	No
Version	Request.Operation.SuperResolution	Same as	String	No

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		`Request.Version` in the super resolution template creation API CreateMediaTemplate.		

`Transcode` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TimeInterval	Request.Operation.Transcode	Same as `Request.TimeInterval` in the transcoding template creation API CreateMediaTemplate.	Container	No
Container	Request.Operation.Transcode	Same as `Request.Container` in the transcoding template creation API CreateMediaTemplate.	Container	No
Video	Request.Operation.Transcode	Same as `Request.Video` in the transcoding template creation API CreateMediaTemplate.	Container	No
Audio	Request.Operation.Transcode	Same as `Request.Audio` in the transcoding template creation API CreateMediaTemplate.	Container	No
TransConfig	Request.Operation.Transcode	Same as `Request.TransConfig` in the transcoding template creation API CreateMediaTemplate.	Container	No
AudioMix	Request.Operation.Transcode	Audio mix parameter as described in Structure.	Container array	No

`DigitalWatermark` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required

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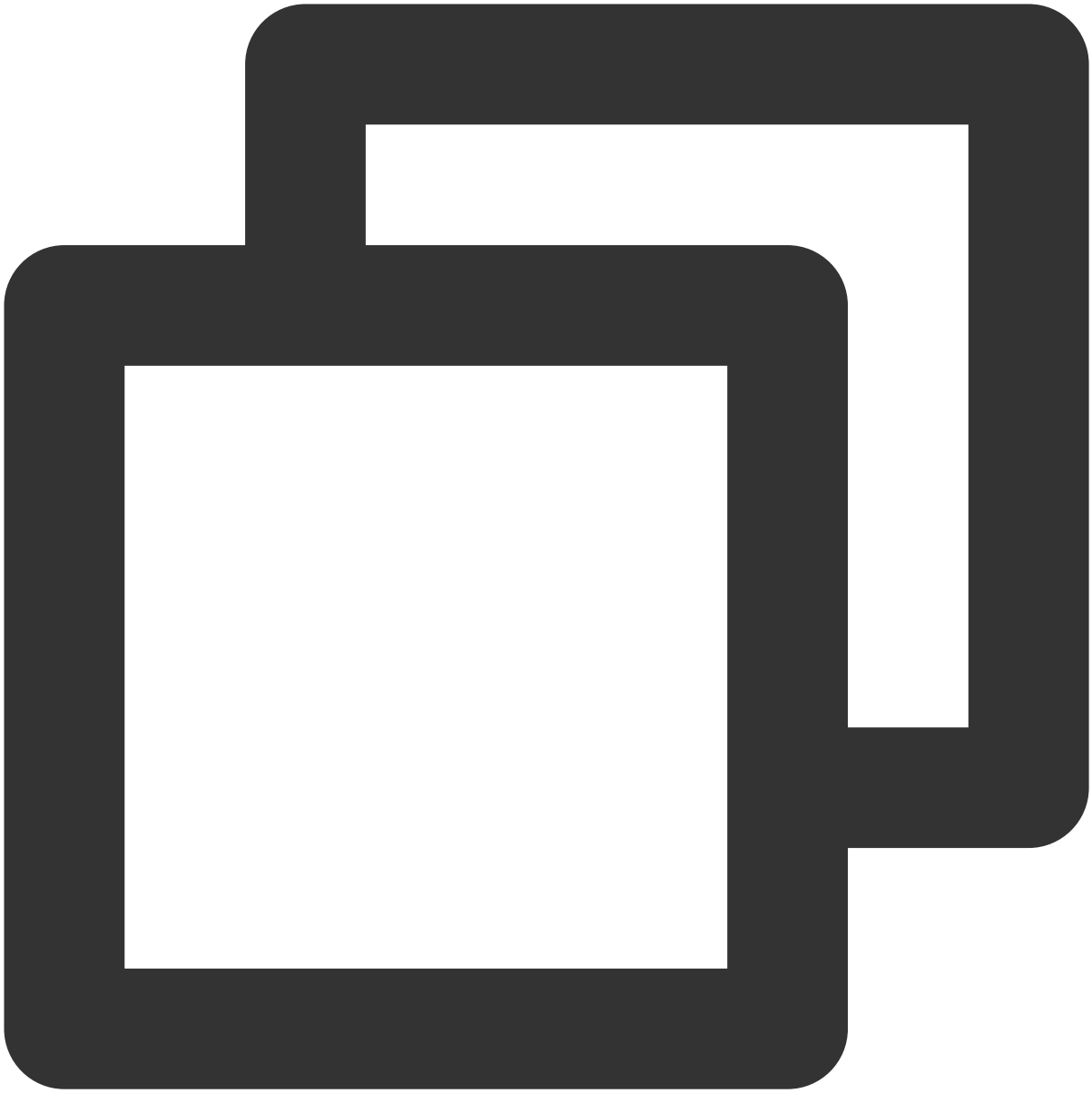
Message	Request.Operation.DigitalWatermark	The string embedded by the digital watermark, which can contain up to 64 letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes
Type	Request.Operation.DigitalWatermark	Watermark type, which currently can be set to `Text` only	String	Yes
Version	Request.Operation.DigitalWatermark	Watermark version, which currently can be set to `V1` only	String	Yes
IgnoreError	Request.Operation.DigitalWatermark	Whether to ignore the watermarking failure and continue the job. Valid values: `true`, `false` (default).	string	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	Result file name	String	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2OGY4ZDdfZmNjYTNiMGAJODIJAOIDJAOMmVmNDU=
    [ContentType] => application/xml
    [ContentLength] => 1170
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-27T16:03:35+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-guangzhou
                        )

                    [JobId] => j89be22b8c60011ec9070fasd8a09d80a9b8
                    [Message] =>
                    [Operation] => Array
                        (
                            [DigitalWatermark] => Array
                                (
                                    [IgnoreError] => true
                                    [Message] => xxx
                                    [State] => Running
                                    [Type] => Text
                                    [Version] => V1
                                )

                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => SuperResolution.flv
                                    [Region] => ap-guangzhou
                                )

                            [TemplateId] => t19ea5e0c0b7b904a8sd09a8sd09a80sd10
                            [TemplateName] => SuperResolution-1
                            [TranscodeTemplateId] => t19ea5e0c0b7b904a8sd09a8sd09a8
```

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```
                                [WatermarkTemplateId] => t19ea5e0c0b7b904a8sd09a8asdasd
                                [UserData] => xxx
                                [JobLevel] => 0
                            )

                        [QueueId] => p81e648af2aee49688570asd8a90sd6
                        [StartTime] => -
                        [State] => Submitted
                        [Tag] => SuperResolution
                    )

            )

)
```

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Video Tagging Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for video tagging.

API	Description
Submitting a video tagging job	Submits a video tagging job.

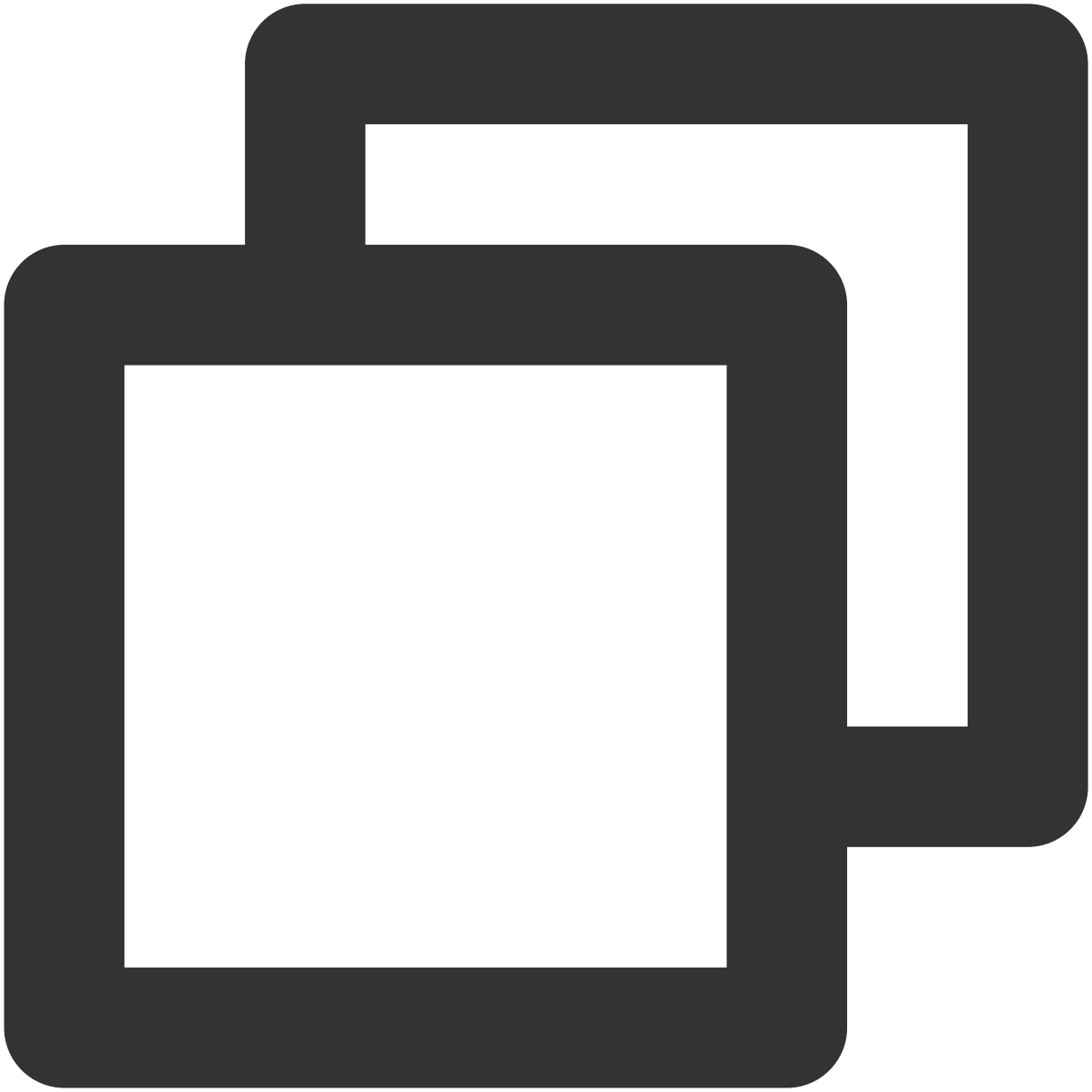
Submitting Video Tagging Job

Feature description

This API is used to submit a video tagging job.

Method prototype

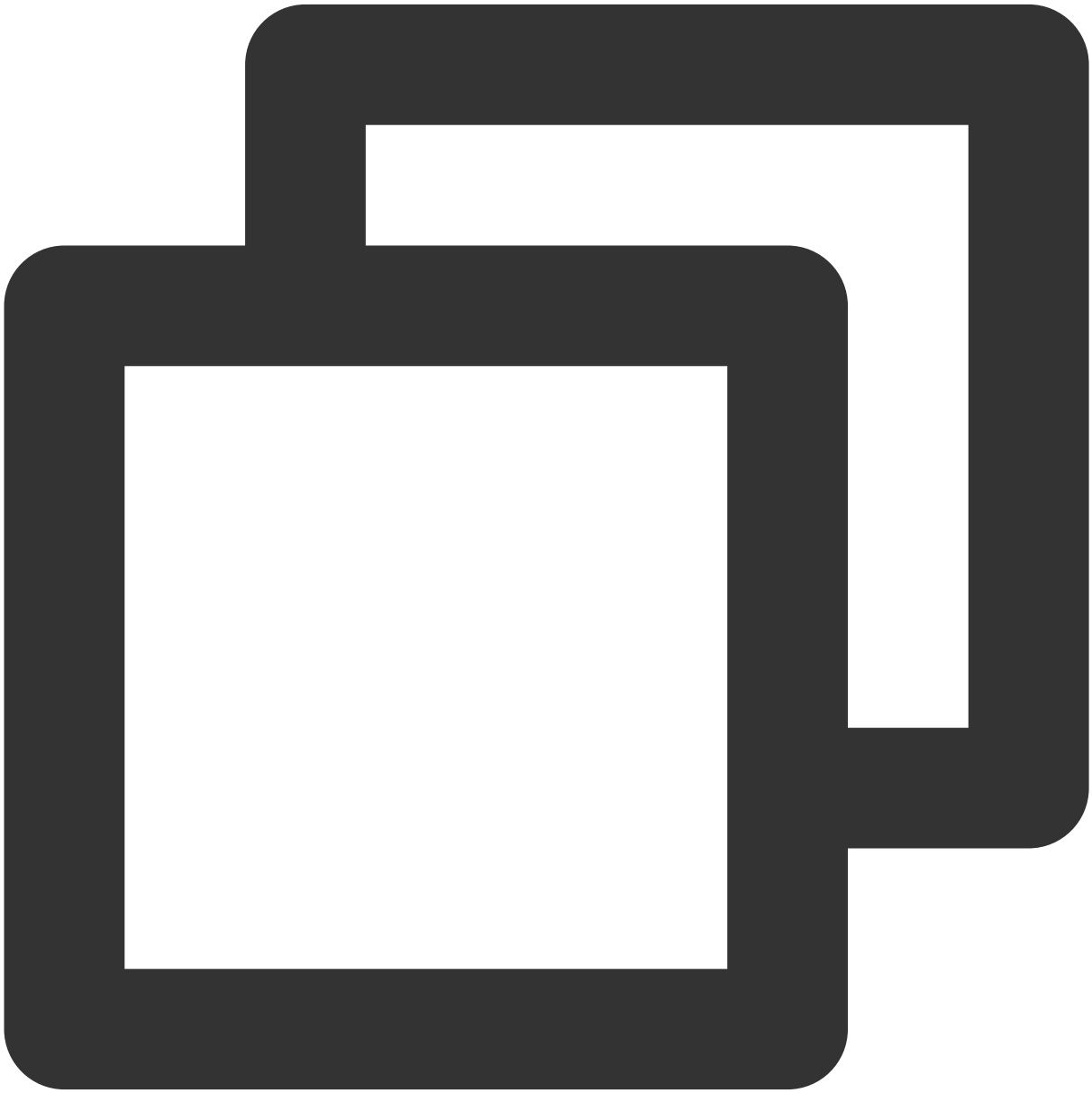
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```
public Guzzle\\Service\\Resource\\Model createMediaVideoTagJobs(array $args = array
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Submit a video tagging job. For more information, visit https://cloud.tencen
    $result = $cosClient->createMediaVideoTagJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'VideoTag',
        'QueueId' => 'p81e648af2aee496885707ca0xxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'VideoTag' => array(
                'Scenario' => 'Stream',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: VideoTag	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
CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default	String	No

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		value) or `TDMQ`. It takes priority over that of the queue.		
CallBack	Request	Job callback address, which takes priority over 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, 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	Name of the media file on which to perform the video tagging job. Currently, .mp4, .avi, .mkv, .wmv, .rmvb, .flv, and .mov formats are supported. For videos longer than 30 minutes, submit a ticket for assistance.	String	Yes

`Operation` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
VideoTag	Request.Operation	`VideoTag` job parameter	Container	Yes
JobLevel	Request.Operation	Job priority. The greater the value, the higher the priority. Valid values: `0`, `1`, `2`. Default value: `0`.	String	No
UserData	Response.JobsDetail.Operation	The user information passed through.	String	No

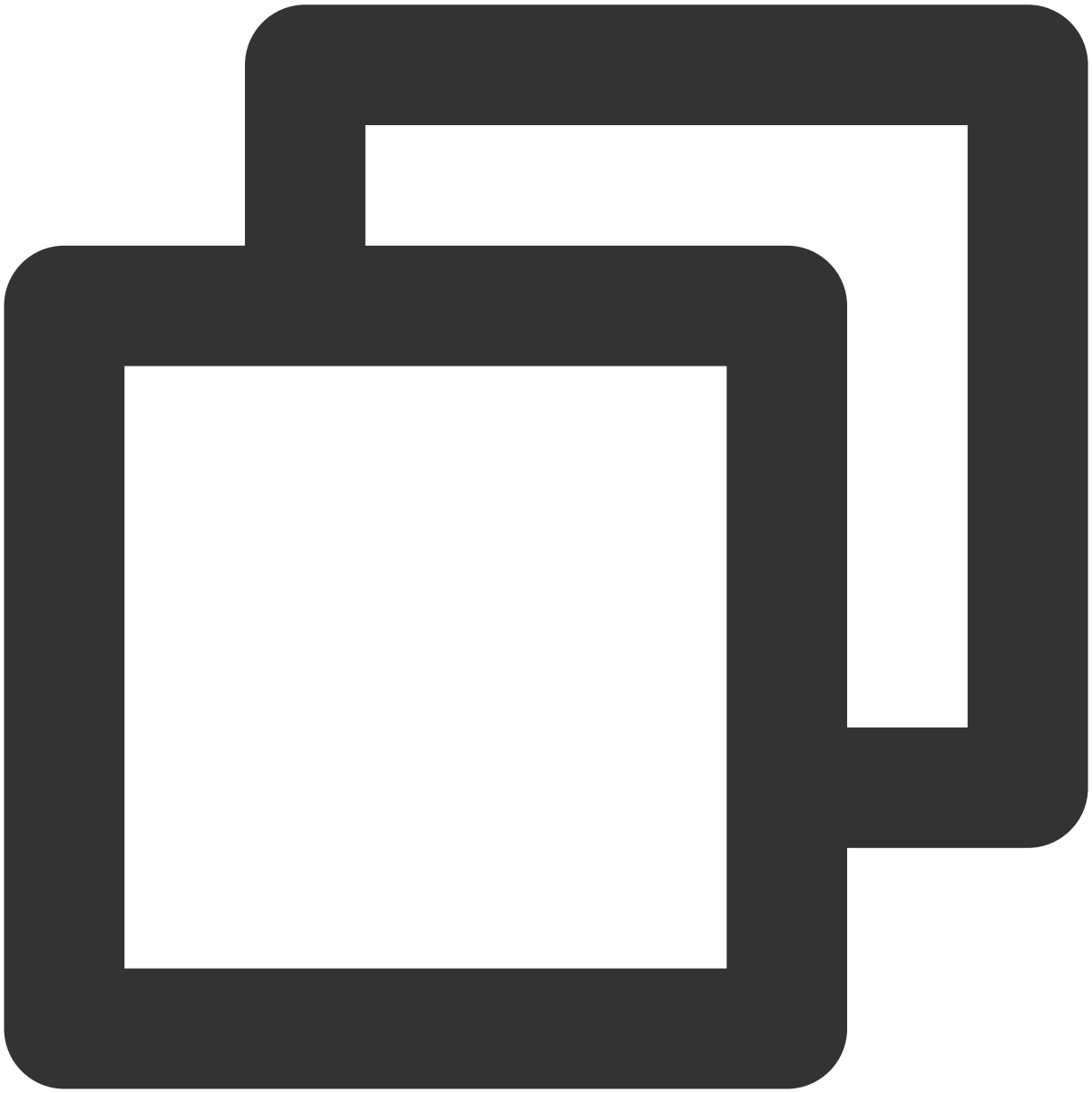
`VideoTag` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Scenario	Request.Operation.VideoTag	Scenario type. You can	string	Yes	The

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		select the application scenario of the video tag. The used algorithm, input, and output vary by scenario.			current version is only adapted to the `Stream` scenario

Sample response



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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
                (
                )

        )

    [RequestId] => NjI2OTI2ZTdfZaOAUSIODUJAIODJAIODViNWQ=
    [ContentType] => application/xml
    [ContentLength] => 610
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-27T19:20:07+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-guangzhou
                        )

                    [JobId] => jfe591374c61b11ec9ad8a098sd09asd8aa
                    [Message] =>
                    [Operation] => Array
                        (
                            [VideoTag] => Array
                                (
                                    [Scenario] => Stream
                                )
                            [UserData] => xxx
                            [JobLevel] => 0
                        )
```

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```
                    [QueueId] => p81e648af2aeea8d90a8s90d8a0de086
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => VideoTag
                )

        )

)
```

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Image Processing Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for image processing.

API	Description
Submitting an image processing job	Submits an image processing job.

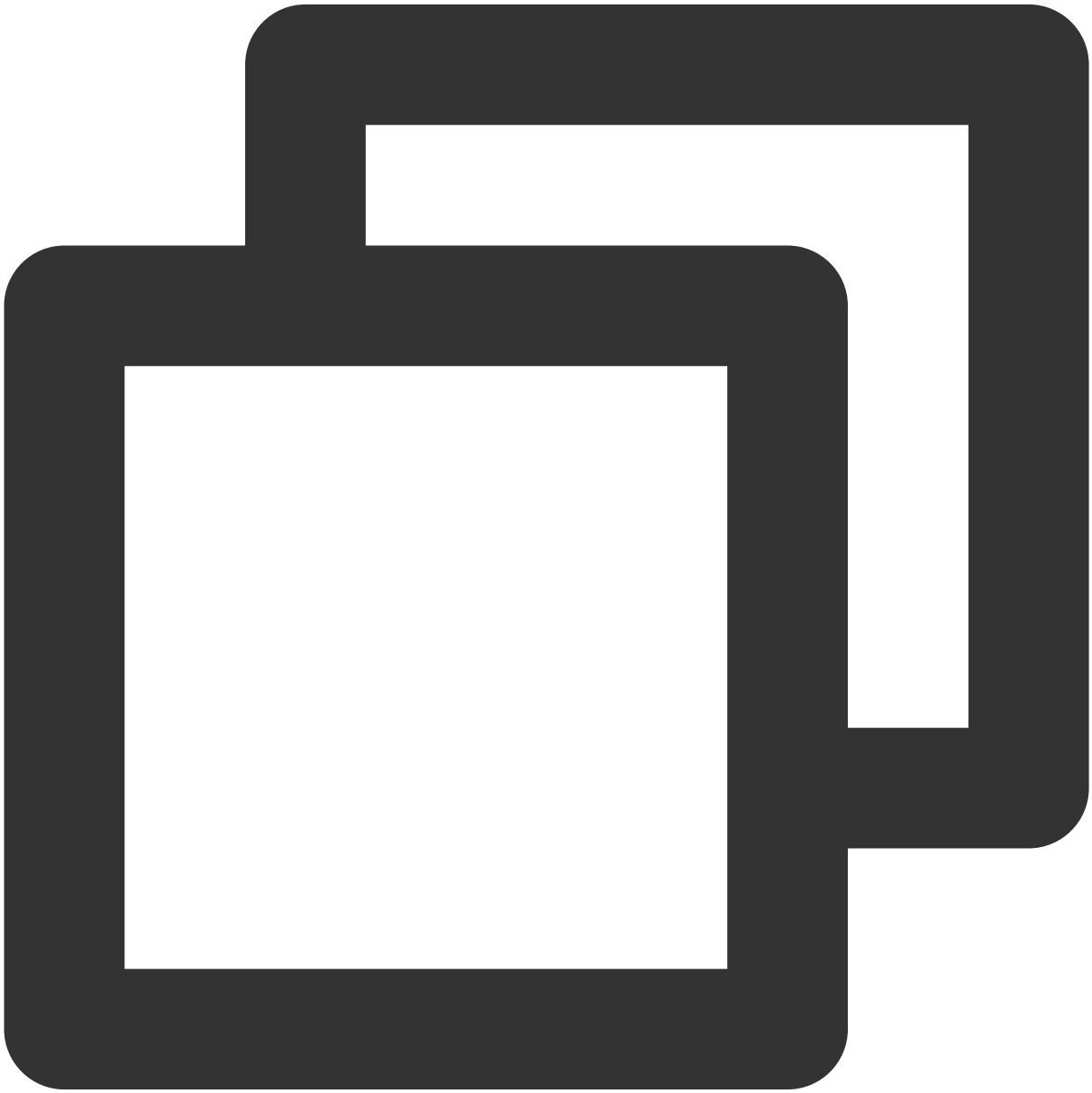
Submit Image Processing Job

Feature description

This API is used to submit an image processing job.

Method prototype

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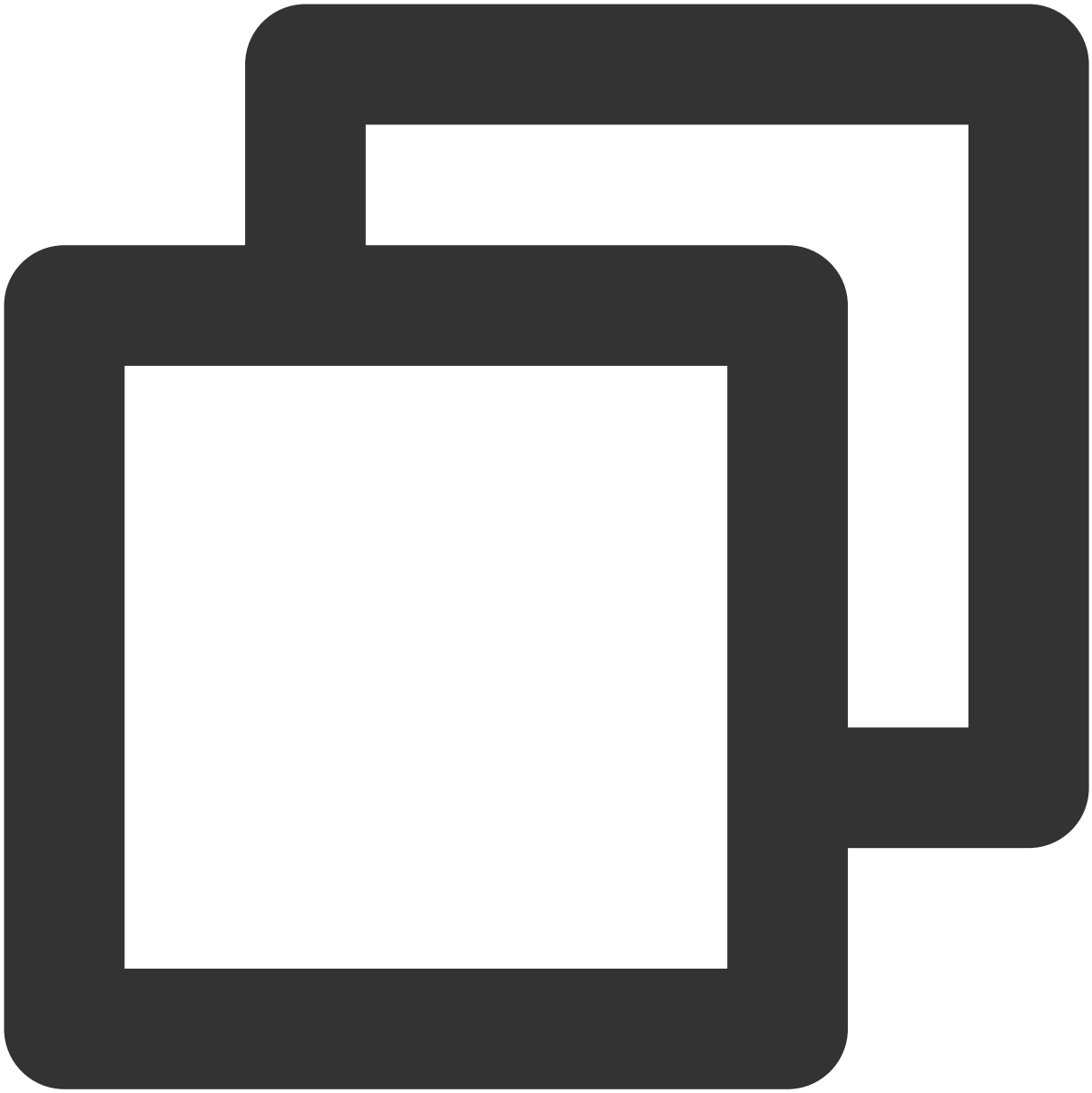


```
public Guzzle\\Service\\Resource\\Model createMediaPicProcessJobs(array $args = arr
```

Sample request

Sample 1. Using a template

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

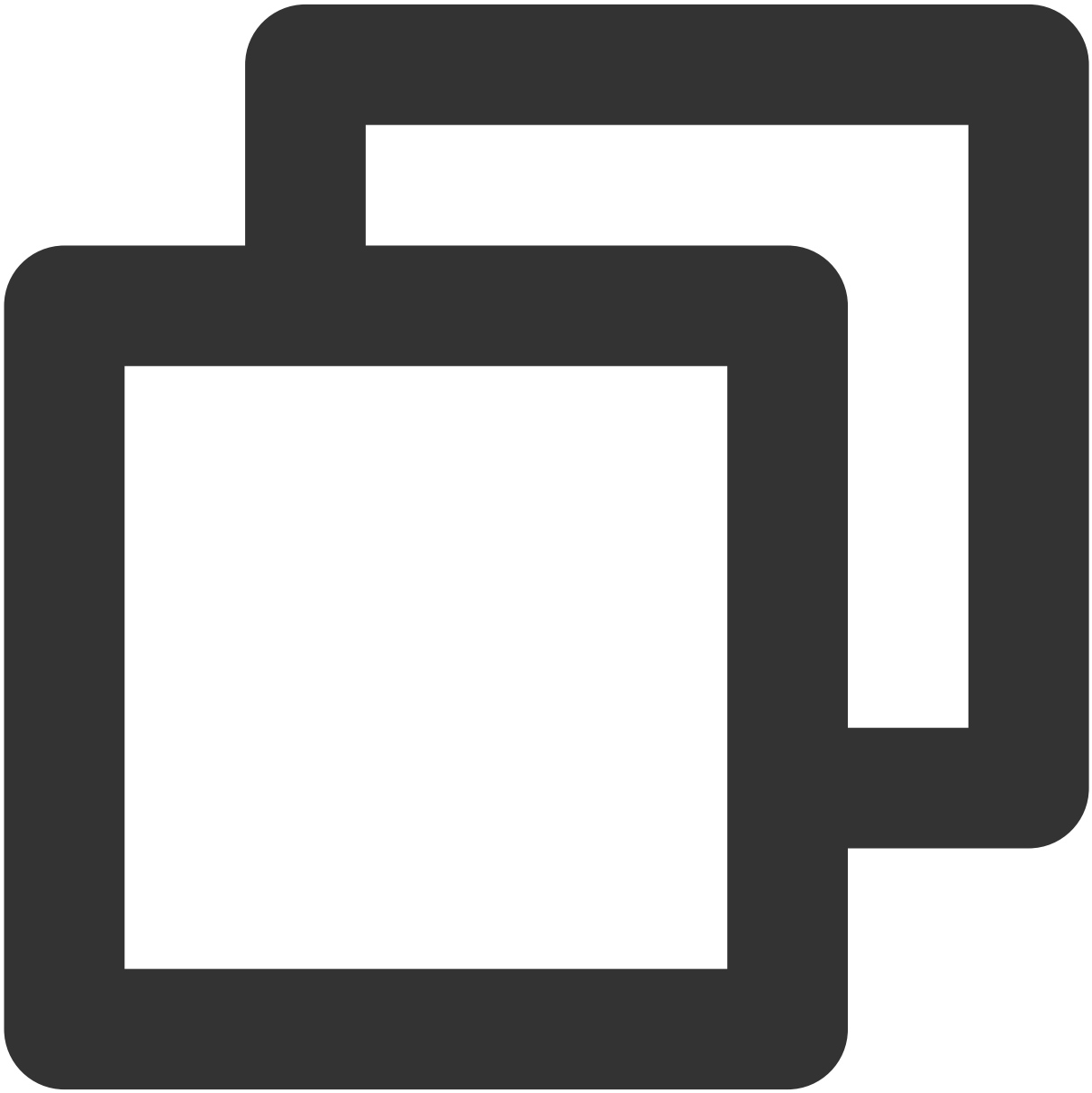
$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaPicProcessJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'PicProcess',
        'QueueId' => 'pcf4d6d9e5e734asd0as8d09as8d09a8d0',
        'Input' => array(
            'Object' => 'test01.png'
        ),
        'Operation' => array(
            'TemplateId' => 't1648745f76c354e8ad8a09sd890ad80a8d',
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'picprocess.jpg',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Sample 2. Customizing parameters

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    $result = $cosClient->createMediaPicProcessJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'PicProcess',
        'QueueId' => 'pcf4d6d9e5e734asd0as8d09as8d09a8d0',
        'Input' => array(
            'Object' => 'test01.png'
        ),
        'Operation' => array(
            'PicProcess' => array(
                'IsPicInfo' => '',
                'ProcessRule' => '',
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'picprocess.jpg',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job tag: 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

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CallBackFormat	Request	Job callback format, which can be `JSON` or `XML` (default value). It takes priority over that of the queue.	String	No
CallBackType	Request	Job callback type, which can be `Url` (default value) or `TDMQ`. It takes priority over that of the queue.	String	No
CallBack	Request	Job callback address, which takes priority over 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, 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	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
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

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Note:

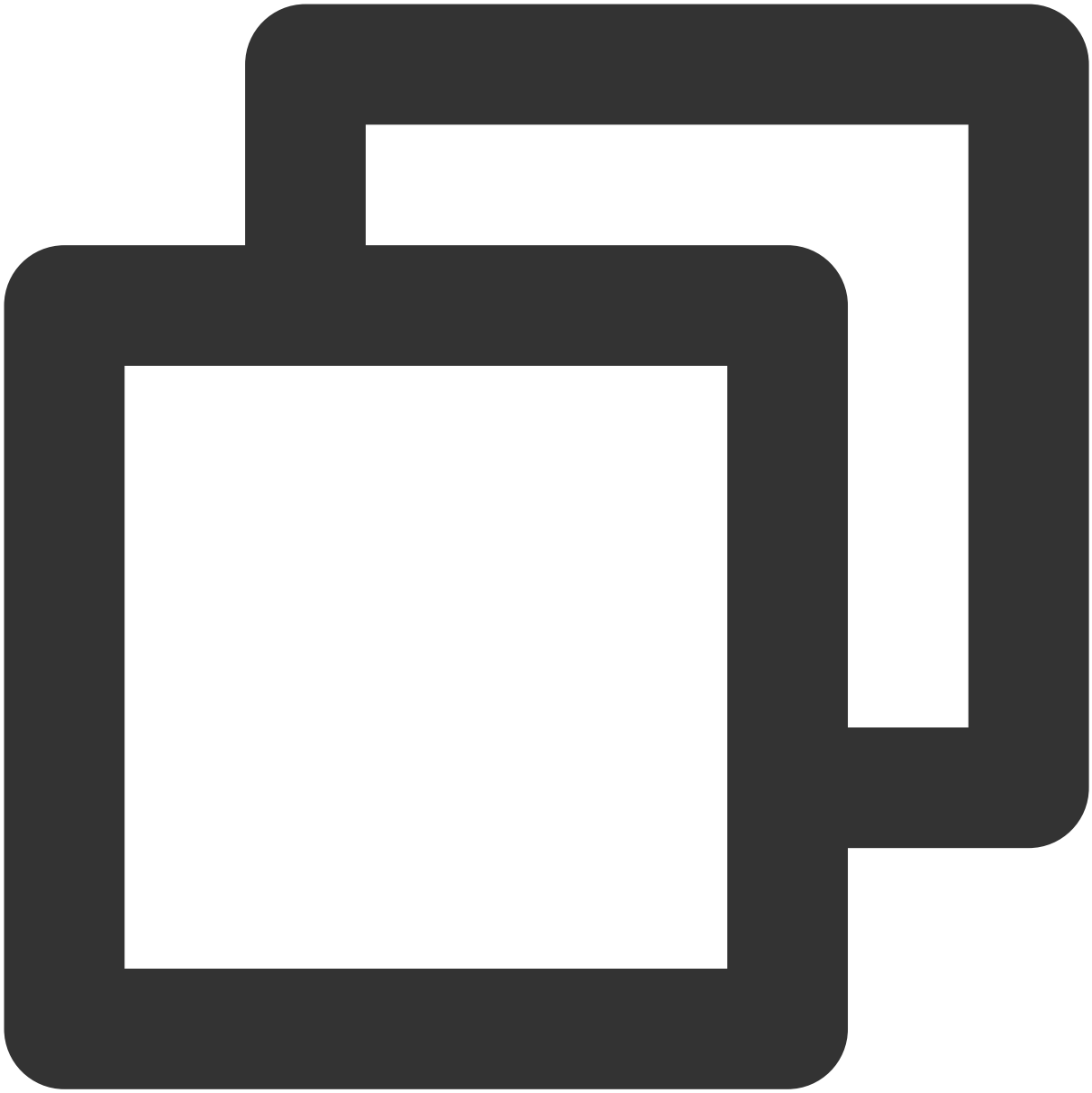
`TemplateId` is used first. If `TemplateId` is unavailable, the corresponding job type parameter is used.

`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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2N2E4NTRfNzgwYzAJODIAUSIODUAU3ZQ==
    [ContentType] => application/xml
    [ContentLength] => 795
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/pic_jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-26T16:07:48+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => test01.png
                            [Region] => ap-guangzhou
                        )

                    [JobId] => cf62e1d50c5sa98d09a8d0a6cf06
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => picprocess.jpg
                                    [Region] => ap-guangzhou
                                )

                            [TemplateId] => t1648745f76asd70as8d90as8d0aa8a09
                            [TemplateName] => PicProcess-1
                            [UserData] => xxx
                            [UserData] => 0
                        )

                    [QueueId] => pcf4d6d9e5e734d0b82eas90d8a90sdd0
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => PicProcess
                )
```

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```
            )

)
```

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Remuxing Job APIs

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for remuxing.

API	Description
Submitting a remuxing job	Submits a remuxing job

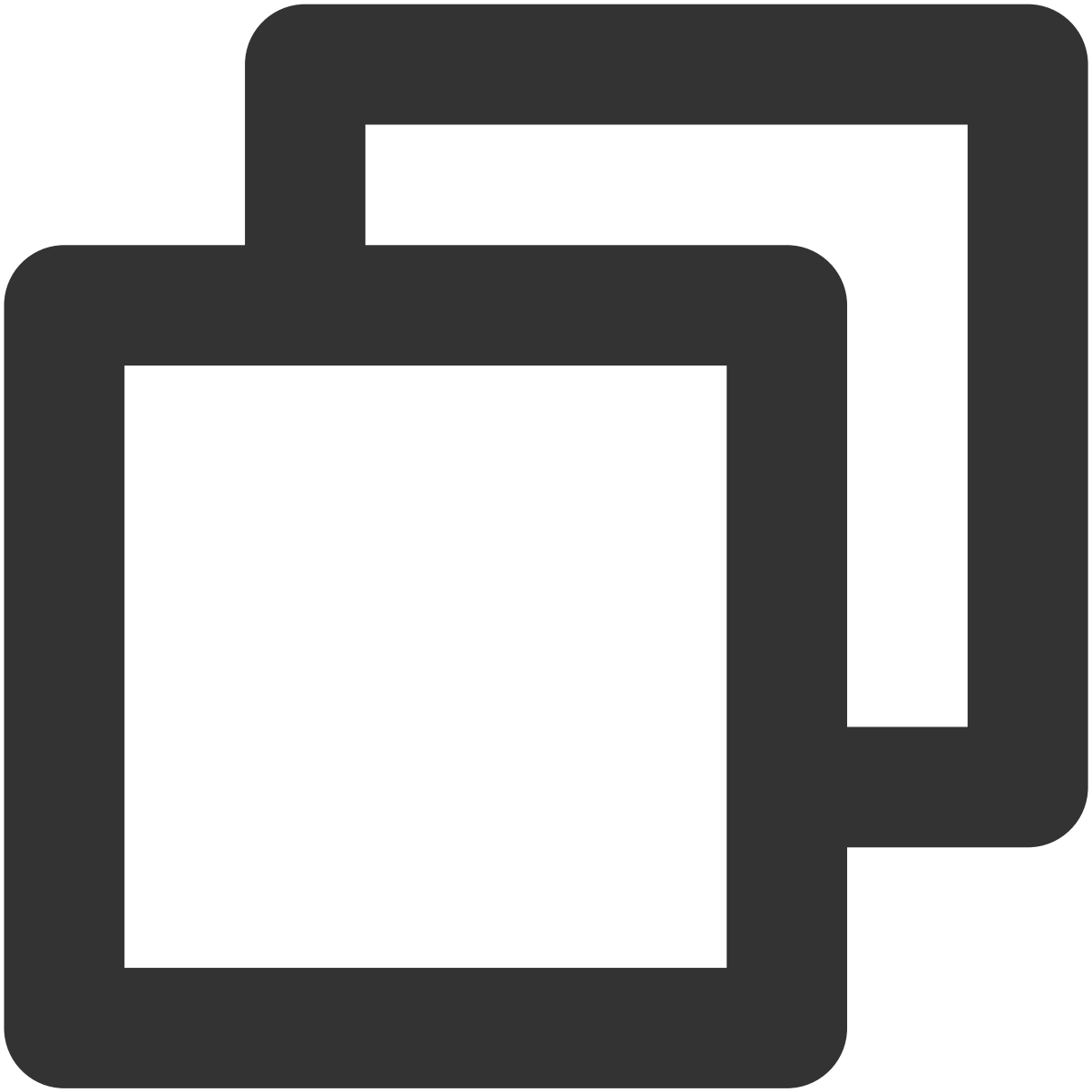
Submitting Remuxing Job

Feature description

Submitting Remuxing Job

Method prototype

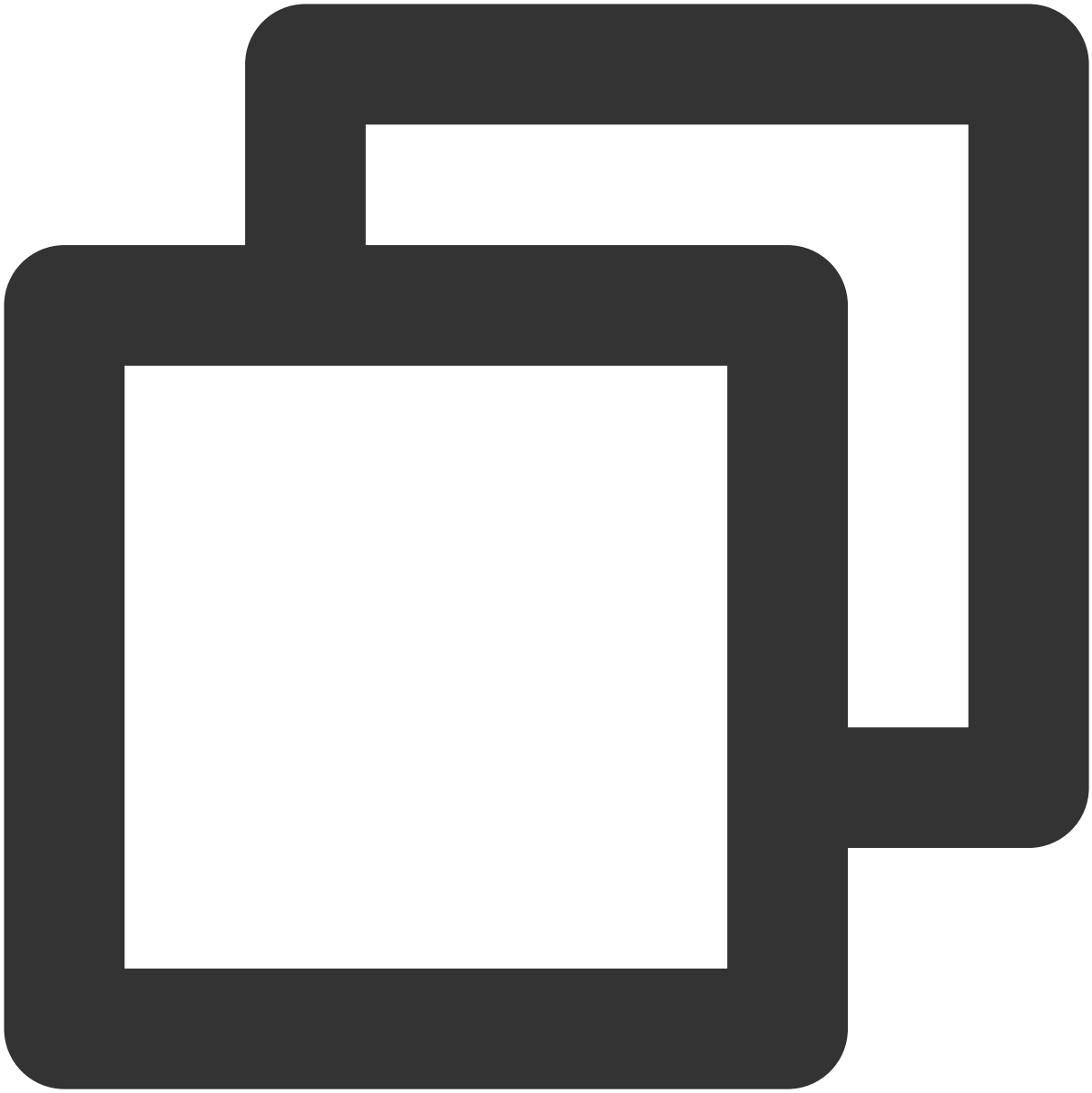
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```
public Guzzle\\Service\\Resource\\Model createMediaSegmentJobs(array $args = array(
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Submit a remuxing job. For more information, visit https://intl.cloud.tencen
    $result = $cosClient->createMediaSegmentJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'Segment',
        'QueueId' => 'p81e648af2aee496885707ca0xxxxxxxxx',
        'Input' => array(
            'Object' => 'video01.mp4'
        ),
        'Operation' => array(
            'Segment' => array(
                'Format' => 'mkv',
                'Duration' => '5',
                'HlsEncrypt' => array(
                    'IsHlsEncrypt' => 'false',
                    'UriKey' => '',
                ),
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000',
                'Object' => 'Segment-trans${Number}.mkv',
            ),
//            'UserData' => 'xxx', // The user information passed through.
//            'JobLevel' => '0', // Job priority. The greater the value, the higher
        ),
        'CallBack' => '',
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Task type: Segment	String	Yes

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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	Callback address	String	No

`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
Segment	Request.Operation	Remuxing parameter	Container	Yes
Output	Request.Operation	Result output address	Container	Yes

`Segment` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required	Constraints
Format	Request.Operation.Segment	Container format	String	Yes	aac, mp3, flac, mp4, ts, mkv, avi, hls, m3u8
Duration	Request.Operation.Segment	Remuxing duration in seconds	String	No	The value must be an integer not less than 5.
HlsEncrypt	Request.Operation.Segment	HLS encryption configuration	Container	No	None. This parameter takes effect only when the container format is `hls`.

`HlsEncrypt` has the following sub-nodes:

Node Name	Parent Node	Description	Type	Required	Default	C

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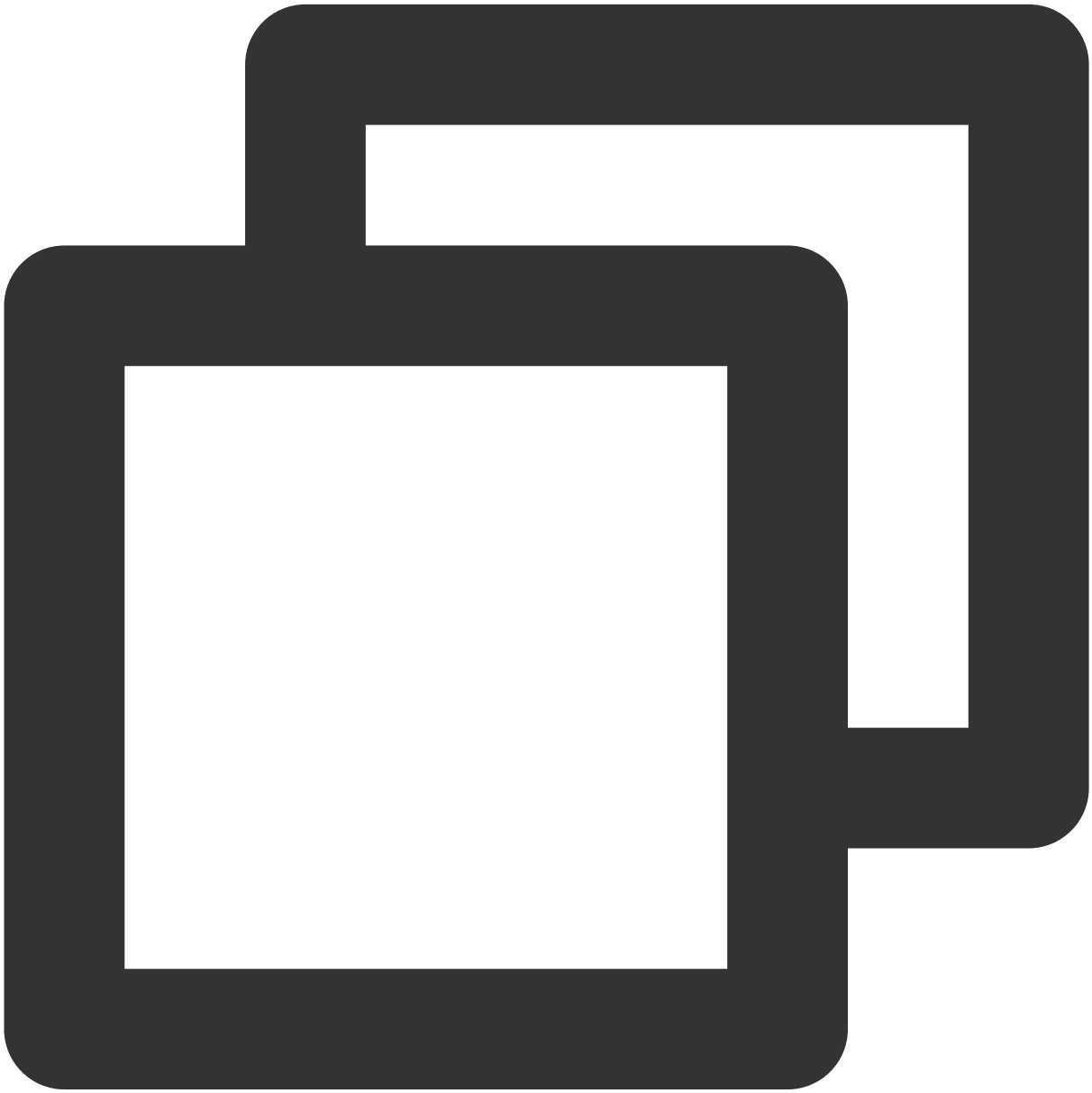
(Keyword)					Value	
IsHlsEncrypt	Request.Operation.Segment.HlsEncrypt	Whether to enable HLS encryption	String	No	false	1. 2. su is
UriKey	Request.Operation.Segment.HlsEncrypt	HLS encryption key	String	No	None	T va

`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 result filename. If `Duration` is configured and `Format` is not HLS or m3u8, the `${Number}` parameter must be included in the filename and used as the output sequence number of each audio/video segment after custom remuxing.	String	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [Body] => GuzzleHttp\\Psr7\\Stream Object
        (
            [stream:GuzzleHttp\\Psr7\\Stream:private] => Resource id #88
            [size:GuzzleHttp\\Psr7\\Stream:private] =>
            [seekable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [readable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [writable:GuzzleHttp\\Psr7\\Stream:private] => 1
            [uri:GuzzleHttp\\Psr7\\Stream:private] => php://temp
            [customMetadata:GuzzleHttp\\Psr7\\Stream:private] => Array
```

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```
                (
                )

        )

    [RequestId] => NjI2YTA2MzZfZAODIJAIODJAIODZF8xNjc2YTA=
    [ContentType] => application/xml
    [ContentLength] => 866
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/jobs
    [Response] => Array
        (
            [JobsDetail] => Array
                (
                    [Code] => Success
                    [CreationTime] => 2022-04-28T11:12:54+0800
                    [EndTime] => -
                    [Input] => Array
                        (
                            [BucketId] => examplebucket-1250000000
                            [Object] => video01.mp4
                            [Region] => ap-guangzhou
                        )

                    [JobId] => j184996a2c6a111ec954767a8248f19aa
                    [Message] =>
                    [Operation] => Array
                        (
                            [Output] => Array
                                (
                                    [Bucket] => examplebucket-1250000000
                                    [Object] => Segment-trans${Number}.mkv
                                    [Region] => ap-guangzhou
                                )

                            [Segment] => Array
                                (
                                    [Duration] => 10
                                    [Format] => mkv
                                    [HlsEncrypt] => Array
                                        (
                                            [IsHlsEncrypt] => false
                                            [UriKey] =>
                                        )

                                )
                            [UserData] => xxx
```

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```
                            [JobLevel] => 0
                        )

                    [QueueId] => p81e648af2az8x7ca0898s0dasbe086
                    [StartTime] => -
                    [State] => Submitted
                    [Tag] => Segment
                )

        )

)
```

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Template APIs
Template Search API

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for template search.

API	Description
Searching for animated image templates	Searches for animated image templates.
Searching for screenshot templates	Searches for screenshot templates.
Searching for watermark templates	Searches for watermark templates.
Searching for transcoding templates	Searches for transcoding templates.
Searching for splicing templates	Searches for splicing templates.
Searching for top speed codec transcoding templates	Searches for top speed codec transcoding templates.
Searching for video montage templates	Searches for video montage templates.
Searching for voice/sound separation templates	Searches for voice/sound separation templates.
Searching for video enhancement templates	Searches for video enhancement templates.
Searching for image processing templates	Searches for image processing templates.
Searching for super resolution templates	Searches for super resolution templates.

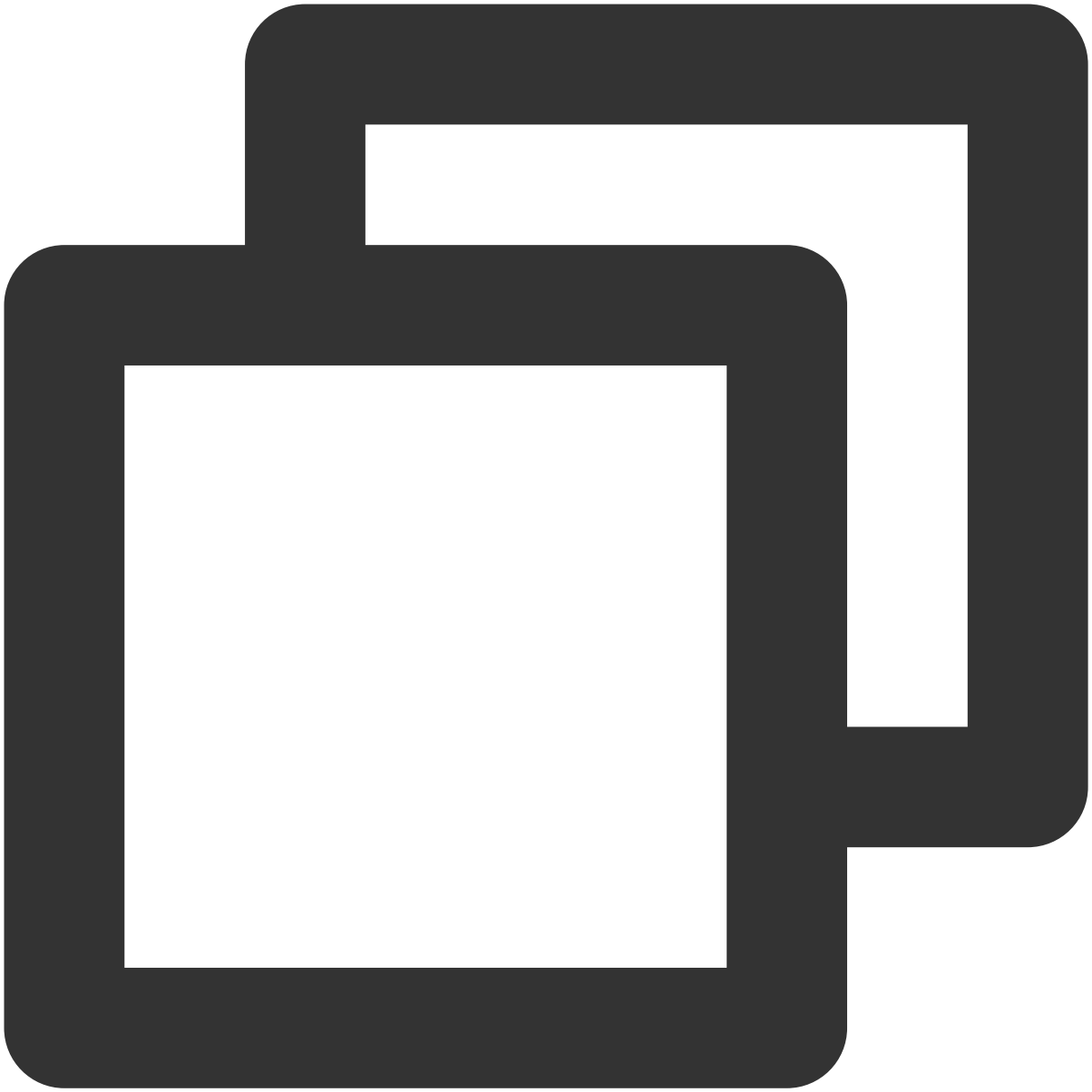
Searching for Template

Feature description

This API is used to search for templates of diverse types, such as Animation, Snapshot, Watermark, Transcode, Concat, HighSpeedHd, VideoMontage, VoiceSeparate, VideoProcess, PicProcess, and SuperResolution.

Method prototype

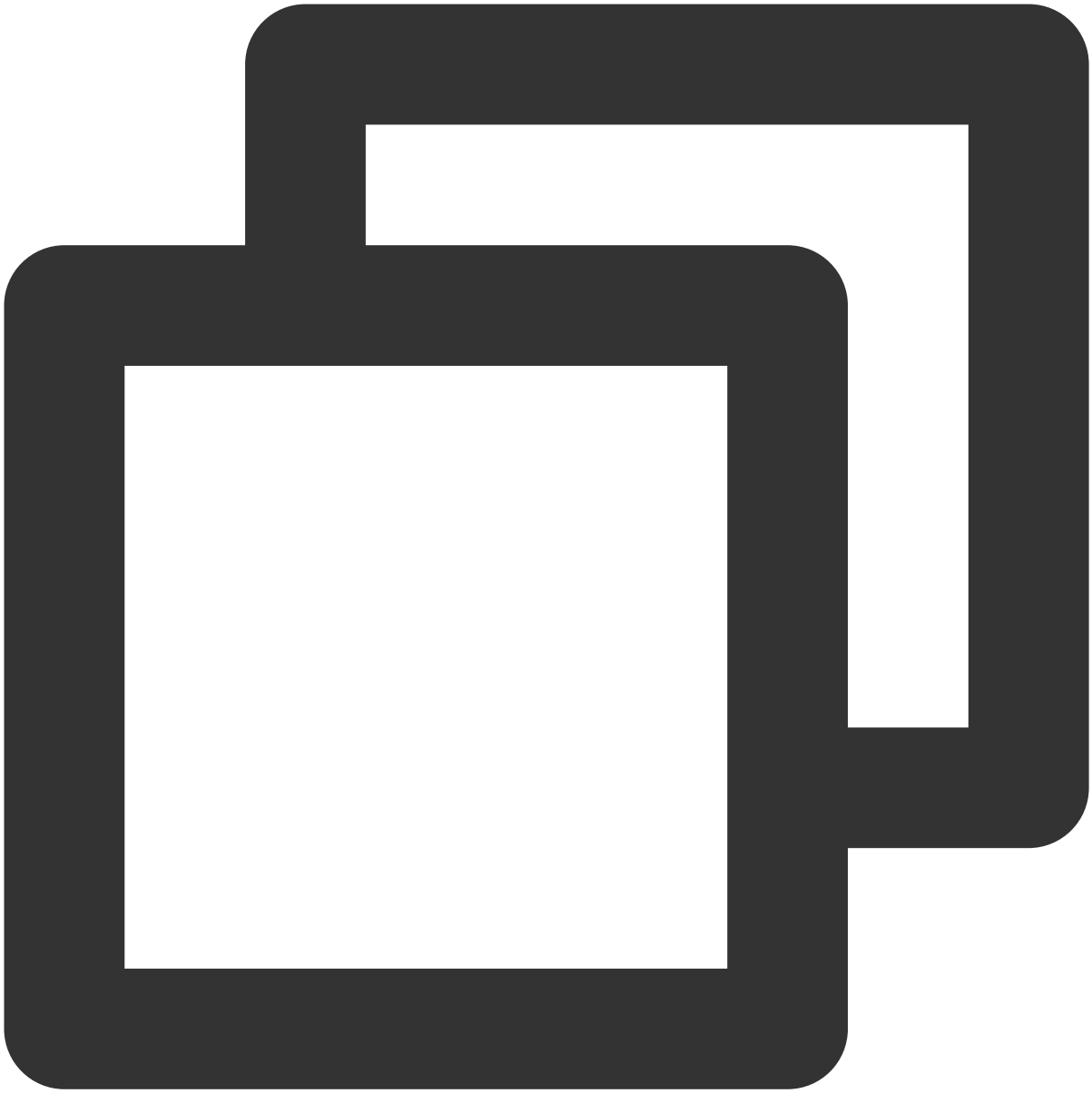
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```
public Guzzle\\Service\\Resource\\Model describeMediaTemplates(array $args = array(
```

Sample request

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```
<?php

require dirname(__FILE__) . '/../vendor/autoload.php';

$secretId = "SECRETID"; // Replace it with your actual `secretId`, which can be vie
$secretKey = "SECRETKEY"; // Replace it with your actual `secretKey`, which can be
$region = "ap-beijing"; // Replace it with the actual region, which can be viewed i
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol header, which is `http` by default.
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // Query the template list
    $result = $cosClient->describeMediaTemplates(array(
        'Bucket' => 'examplebucket-125000000', // Bucket name in the format of `Buc
        'Tag' => '', // Template type. Valid values: `Animation`, `Snapshot`, `Wate
        'Category' => 'Custom',
        'Ids' => '',
        'Name' => '',
        'PageNumber' => '',
        'PageSize' => '',
    ));
    // The request succeeded.
    print_r($result);
} catch (\\Exception $e) {
    // The request failed.
    echo($e);
}
```

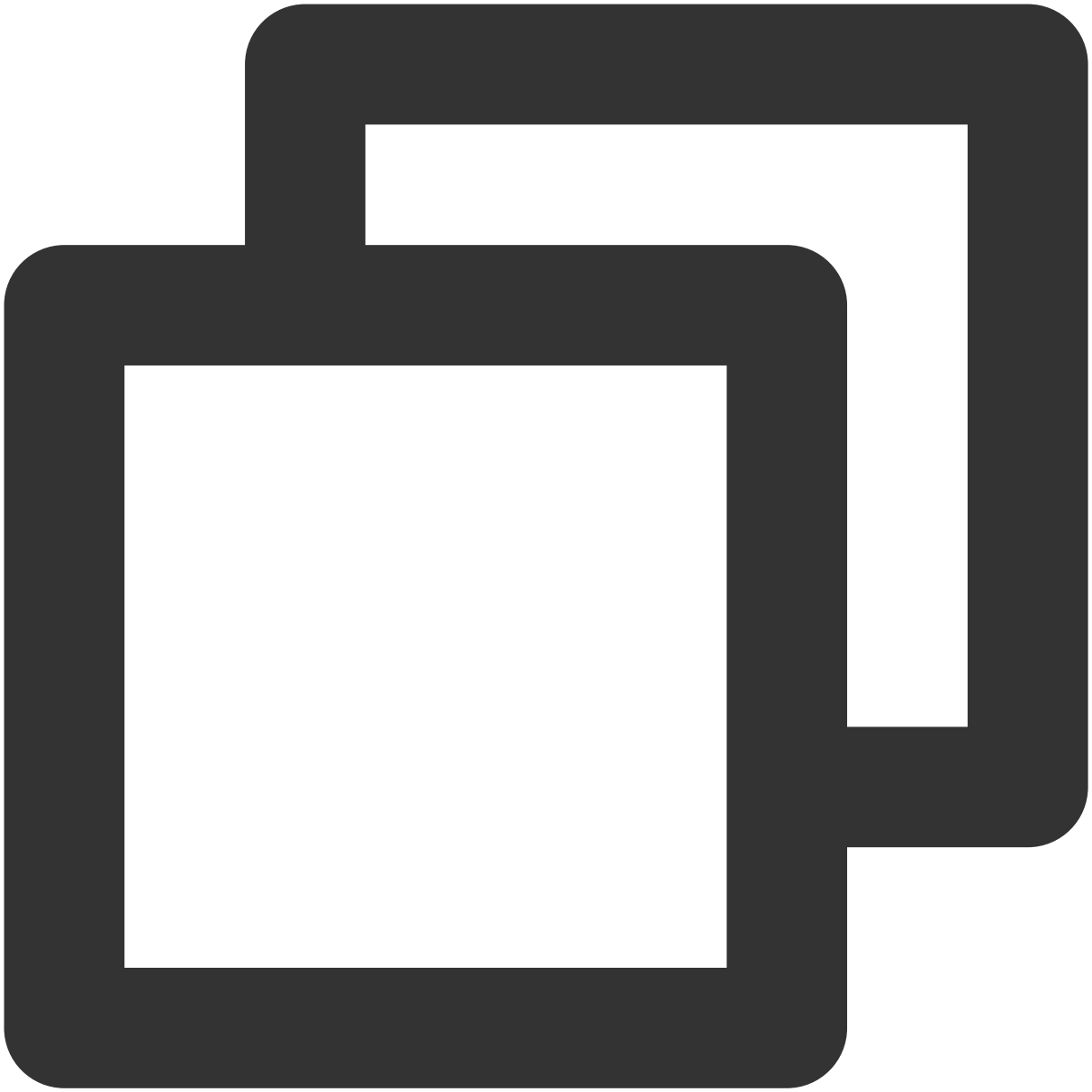
Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	None	Template type	String	Yes
Category	None	Template category: `Custom` or `Official`. 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	Integer	No
PageSize	None	Number of entries per page	Integer	No

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjJhOTRlZDFfNzgwYzdkAOIUDOAIUDTA4ZWE=
    [ContentType] => application/xml
    [ContentLength] => 782
    [TotalCount] => 1
    [PageNumber] => 1
    [PageSize] => 10
    [TemplateList] => Array
        (
            [0] => Array
```

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```
                (
                    [TemplateId] => t1456ea89fcbdf45basd7fa98sd97a5
                    [Name] => VoiceSeparate-Name
                    [State] => Normal
                    [Tag] => VoiceSeparate
                    [CreateTime] => 2021-12-27T22:19:15+0800
                    [UpdateTime] => 2021-12-27T22:19:15+0800
                    [BucketId] => examplebucket-125000000
                    [Category] => Custom
                    [VoiceSeparate] => Array
                        (
                            [AudioMode] => AudioAndBackground
                            [AudioConfig] => Array
                                (
                                    [Codec] => mp3
                                    [Samplerate] => 44100
                                    [Bitrate] => 128
                                    [Channels] => 2
                                )

                        )

                )

        )

    [Bucket] => examplebucket-125000000
    [Location] => examplebucket-125000000.ci.ap-guangzhou.myqcloud.com/template
)
```

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File Processing
Multi-File Zipping

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for multi-file zipping.

API	Description
Submitting a multi-file zipping job	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.
Querying the multi-file zipping result	This API is used to query the result of a specified multi-file zipping job.

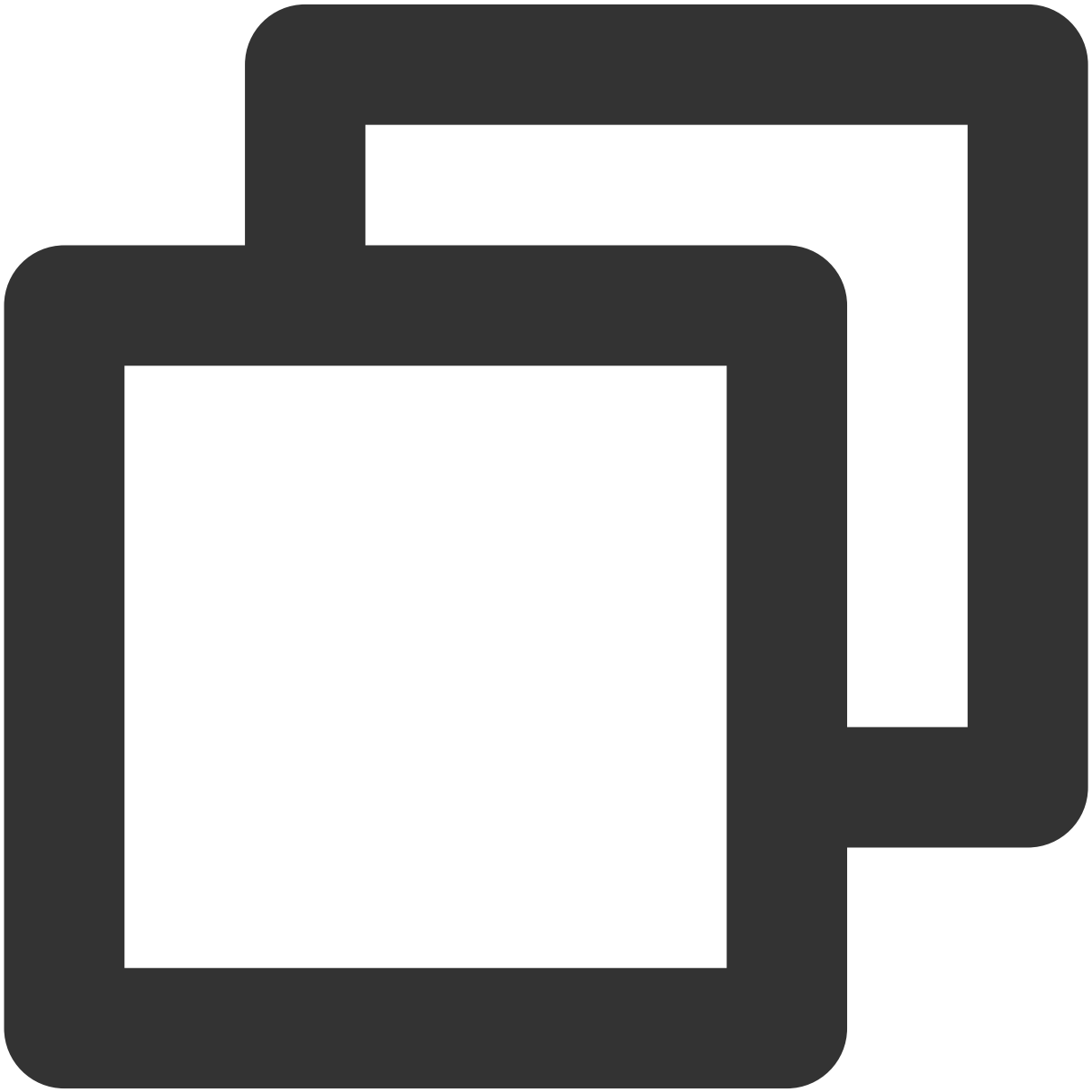
Submitting a Multi-File Zipping Job

Feature description

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.

Method prototype

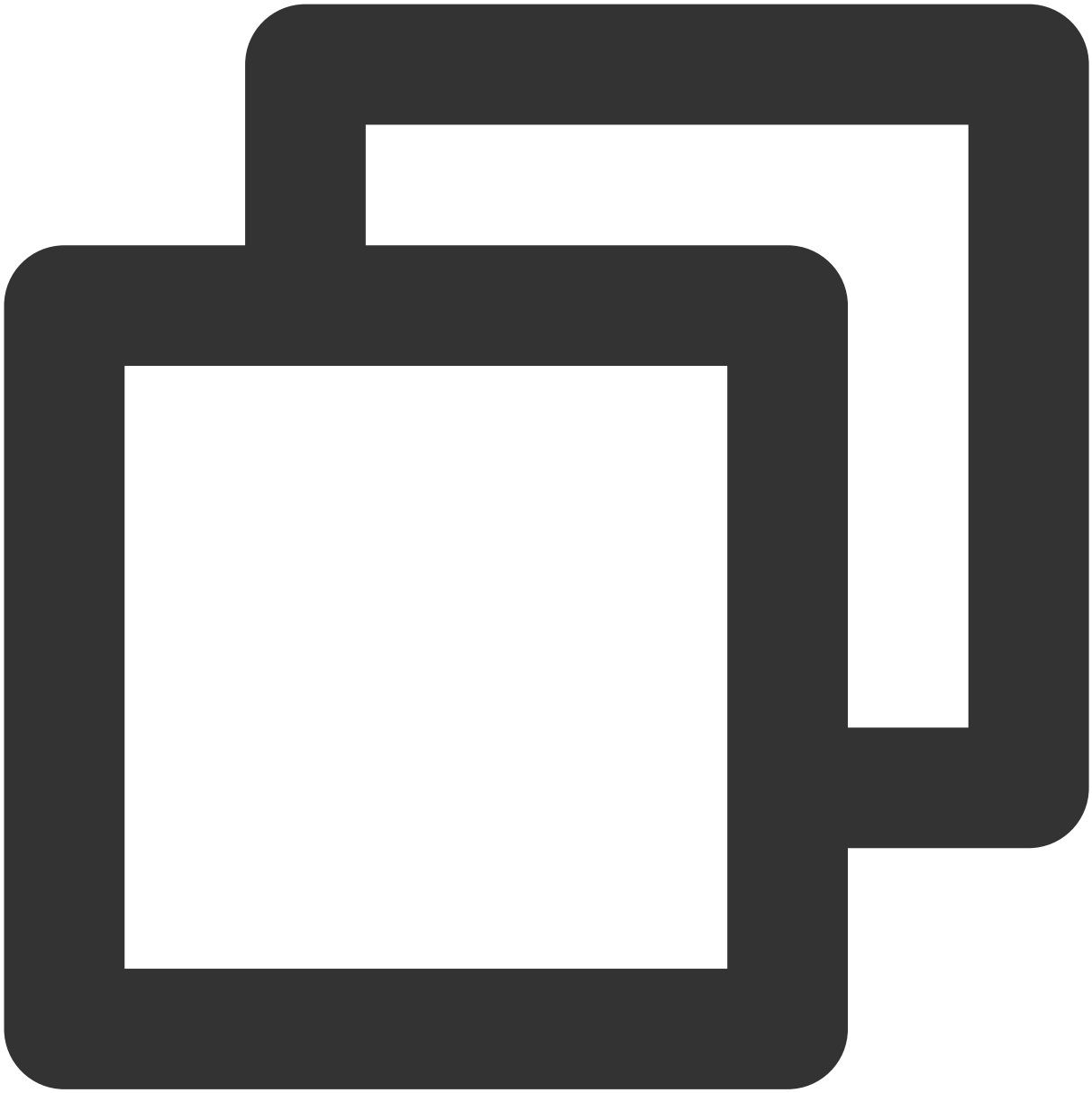
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```
public Guzzle\\Service\\Resource\\Model createFileCompressJobs(array $args = array(
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // https://intl.cloud.tencent.com/document/product/436/53995: Submitting a Mult
    $result = $cosClient->createFileCompressJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'FileCompress',
//        'QueueId' => 'pcc3ae89sa9d807fs89dg789sdg',
        'Operation' => array(
            'UserData' => 'xxx',
            'FileCompressConfig' => array(
                'Flatten' => '0',
                'Format' => 'zip',
//                'UrlList' => 'test/index.csv',
//                'Prefix' => 'test/',
                'Keys' => array(
                    'object1', // File in the bucket to be zipped
                    'object2', // File in the bucket to be zipped
                    'object3', // File in the bucket to be zipped
                ),
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
                'Object' => 'output/test.zip',
            ),
        ),
//        'CallBackFormat' => '',
//        'CallBackType' => '',
//        'CallBack' => '',
//        'CallBackMqConfig' => array(
//            'MqRegion' => '',
//            'MqMode' => '',
//            'MqName' => '',
//        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

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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
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
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure, 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

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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
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 CSV 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

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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:

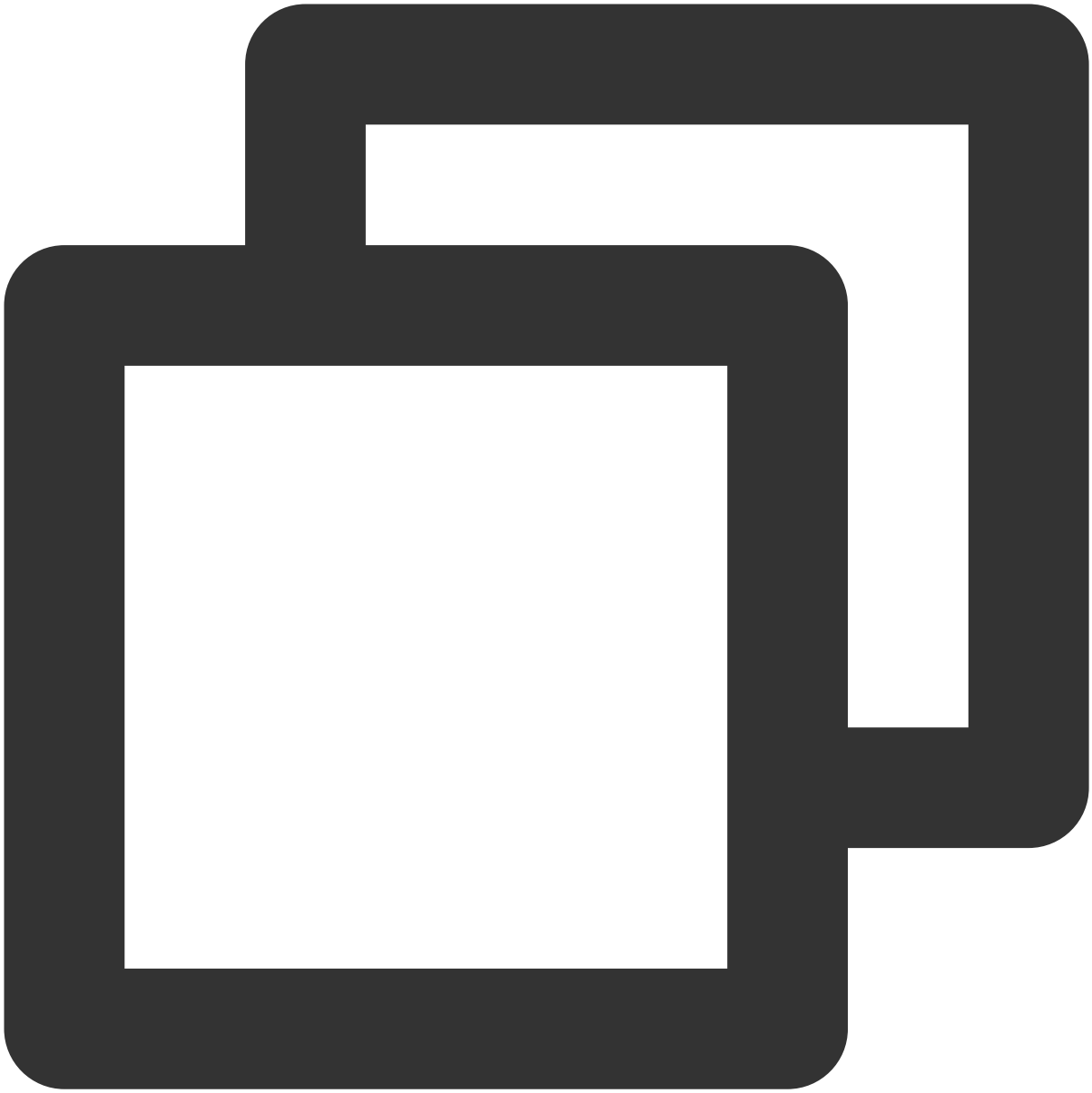
Only one of UrlList, Prefix, and Key can be selected. They cannot all be empty or do not take effect at the same time. If multiple parameters are specified, the parameter with the highest priority prevails according to the priority UrlList > Prefix > Key.

`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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
    [ContentType] => application/xml
    [ContentLength] => 827
    [JobsDetail] => Array
        (
            [Progress] => 0
            [Code] => Success
            [Message] =>
            [JobId] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
```

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```
            [Tag] => FileCompress
            [State] => Submitted
            [CreationTime] => 2023-01-31T16:17:21+0800
            [StartTime] => -
            [EndTime] => -
            [QueueId] => pcc3ae89sa9d807fs89dg789sdg
            [Operation] => Array
                (
                    [JobLevel] => 0
                    [UserData] => xxx
                    [Output] => Array
                        (
                            [Region] => ap-guangzhou
                            [Bucket] => examplebucket-1250000000
                            [Object] => tmp/test.zip
                        )

                    [FileCompressConfig] => Array
                        (
                            [Flatten] => 0
                            [Format] => zip
                            [UrlList] =>
                            [Prefix] =>
                            [Key] => Array
                                (
                                    [0] => test1.png
                                    [1] => test2.jpeg
                                )

                        )

                )

        )

    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/file_jobs
)
```

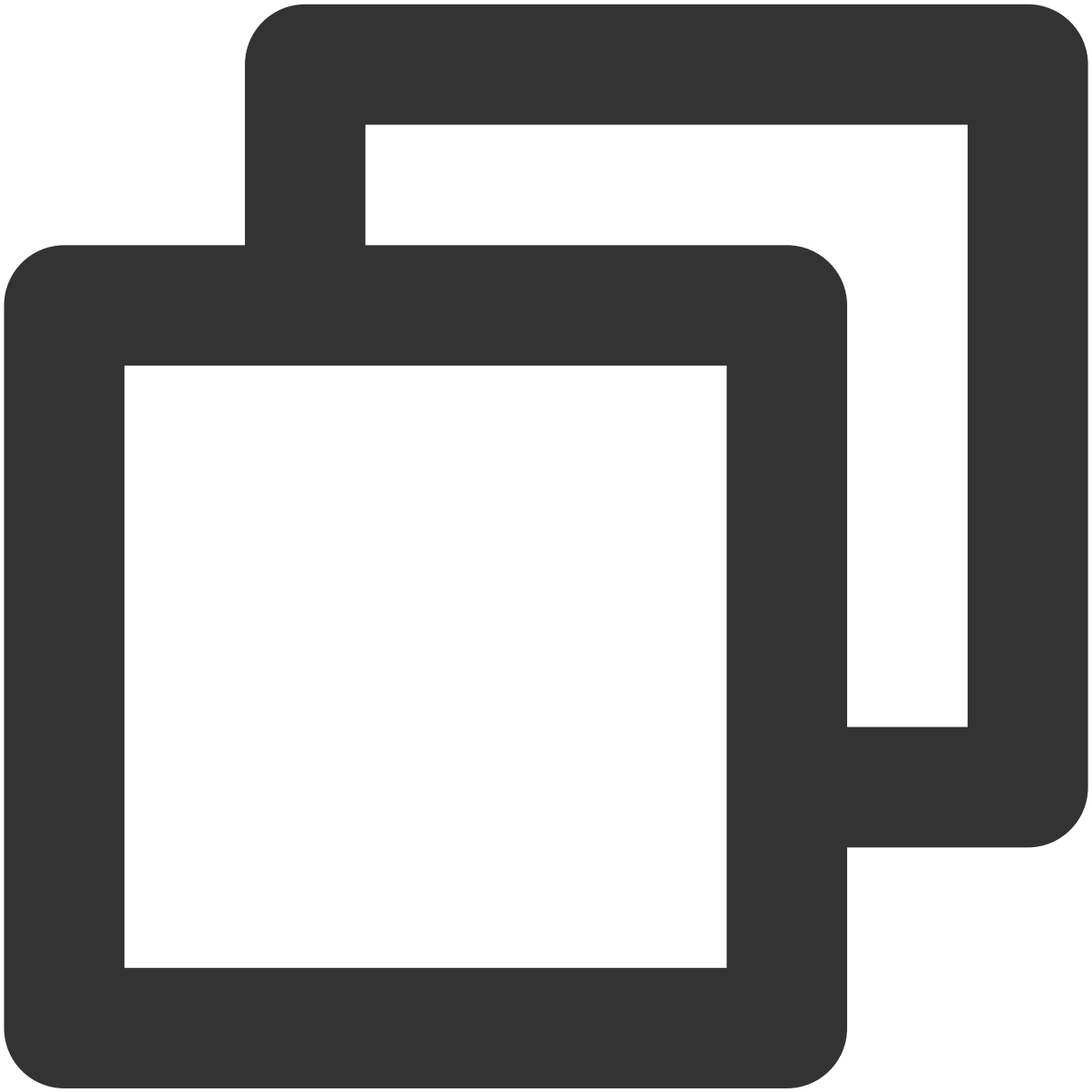
Querying Multi-File Zipping Result

Feature description

This API is used to query the result of a specified multi-file zipping job.

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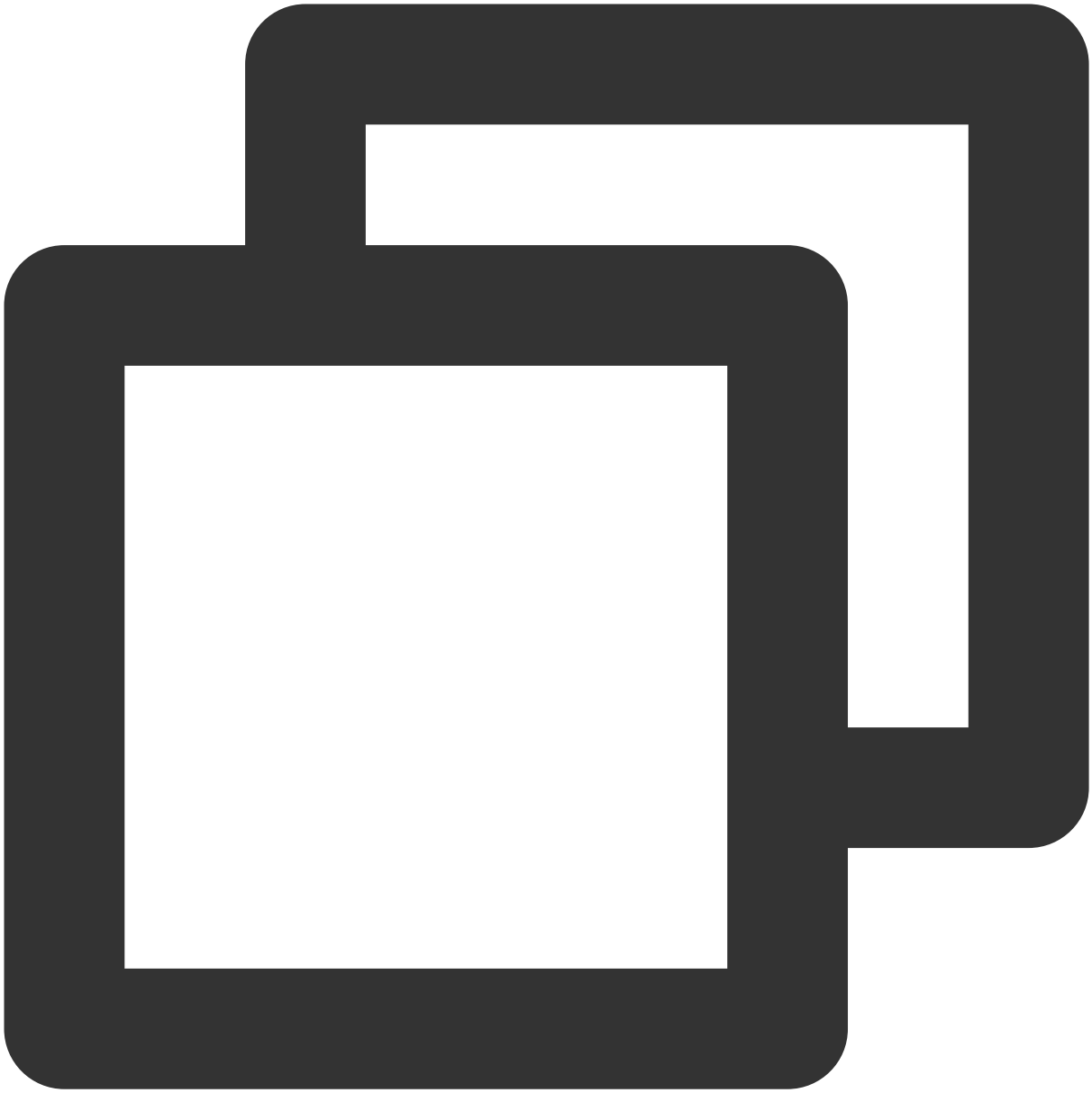
Method prototype



```
public Guzzle\\Service\\Resource\\Model getFileCompressResult(array $args = array()
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // https://intl.cloud.tencent.com/document/product/436/53996: Querying Multi-Fi
    $result = $cosClient->getFileCompressResult(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => '', // jobId
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

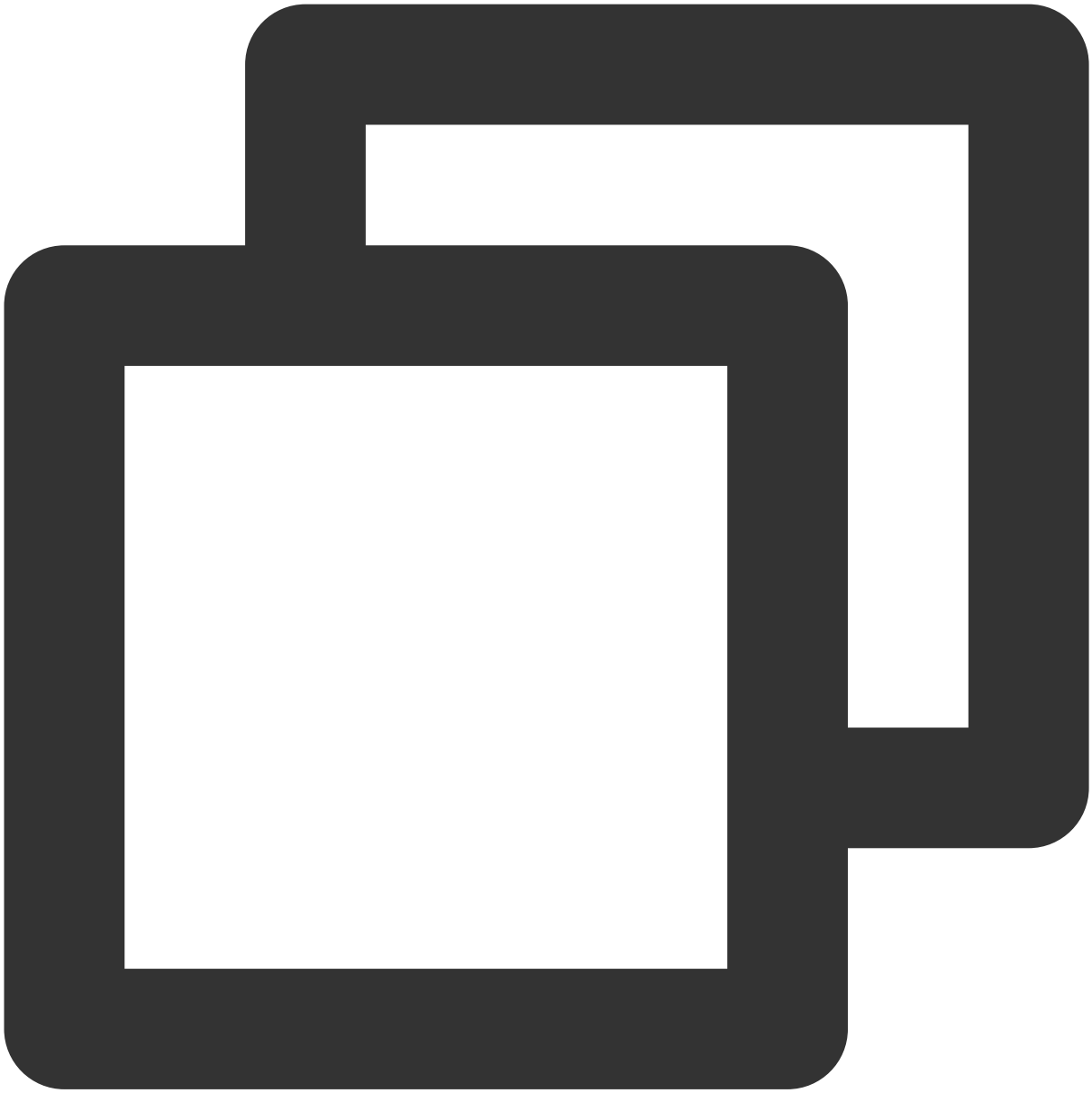
Parameter description

`Request` has the following sub-nodes:

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID` .	Yes
Key	String	jobId	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
    [ContentType] => application/xml
    [ContentLength] => 1093
    [JobsDetail] => Array
        (
            [Progress] => 100
            [Code] => Success
            [Message] => success
            [JobId] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
```

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```
            [Tag] => FileCompress
            [State] => Success
            [CreationTime] => 2023-01-31T16:17:21+0800
            [StartTime] => 2023-01-31T16:17:21+0800
            [EndTime] => 2023-01-31T16:17:22+0800
            [QueueId] => pcc3ae89sa9d807fs89dg789sdg
            [Operation] => Array
                (
                    [JobLevel] => 0
                    [UserData] => xxx
                    [Output] => Array
                        (
                            [Region] => ap-guangzhou
                            [Bucket] => examplebucket-1250000000
                            [Object] => tmp/test.zip
                        )

                    [FileCompressConfig] => Array
                        (
                            [Flatten] => 0
                            [Format] => zip
                            [UrlList] =>
                            [Prefix] =>
                            [Key] => Array
                                (
                                    [0] => test1.png
                                    [1] => test2.jpeg
                                )

                        )

                    [FileCompressResult] => Array
                        (
                            [CompressFileCount] => 2
                            [Region] => ap-guangzhou
                            [Bucket] => examplebucket-1250000000
                            [Object] => tmp/test.zip
                        )

                )

        )

    [Key] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/file_jobs/f
)
```

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Hash Calculation

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for hash calculation.

API	Description
Submitting a sync request for hash calculation	Uses a sync GET request to perform hash calculation and return a calculated hash value in real time.
Submitting a hash calculation job	Adopts a POST request method. You can submit a job to perform hash calculation and asynchronously return a calculated hash value.
Querying the hash calculation result	Queries the result of a specified hash calculation job.

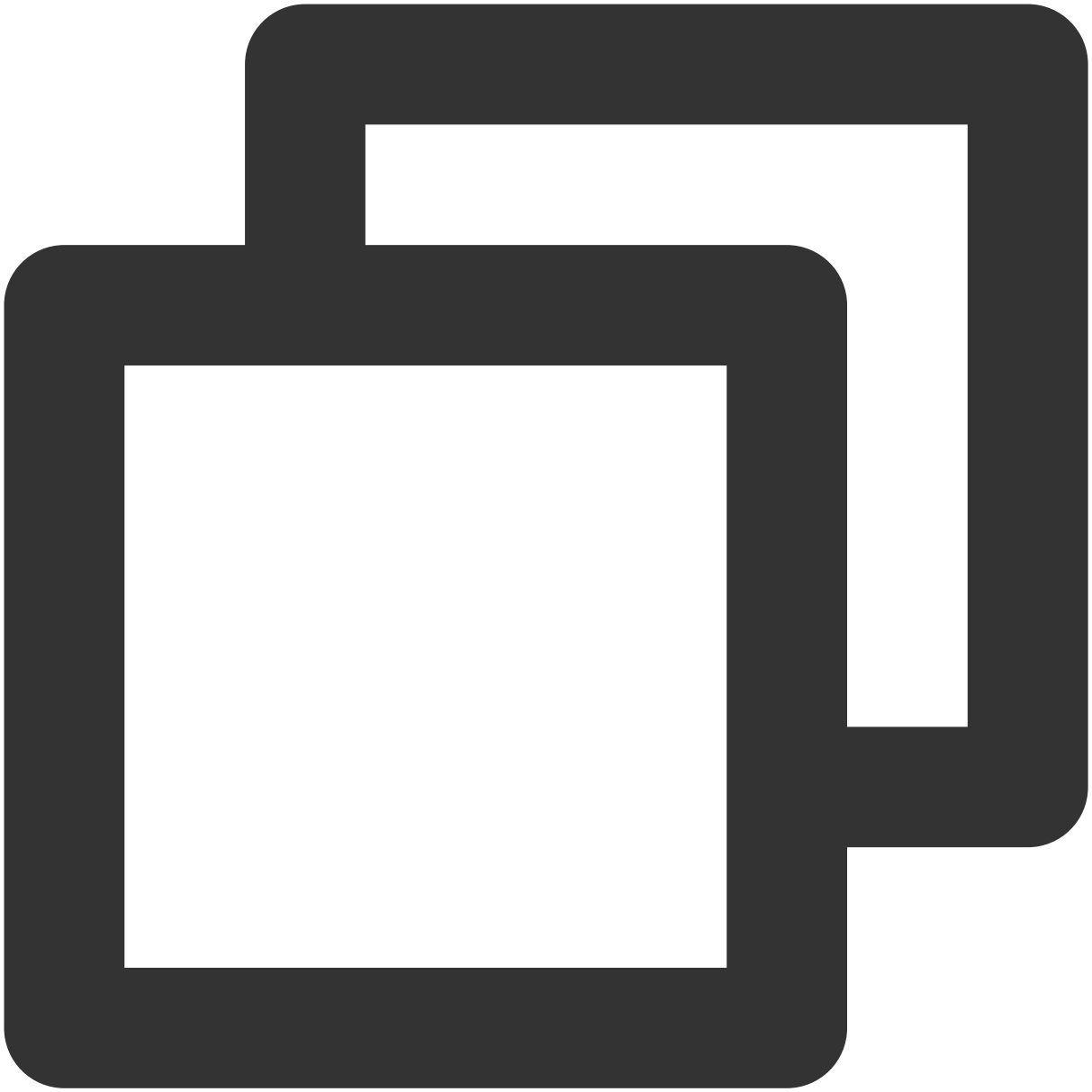
Sync Request for Hash Calculation

Feature description

This API uses a sync GET request to perform hash calculation and return a calculated hash value in real time.

Method prototype

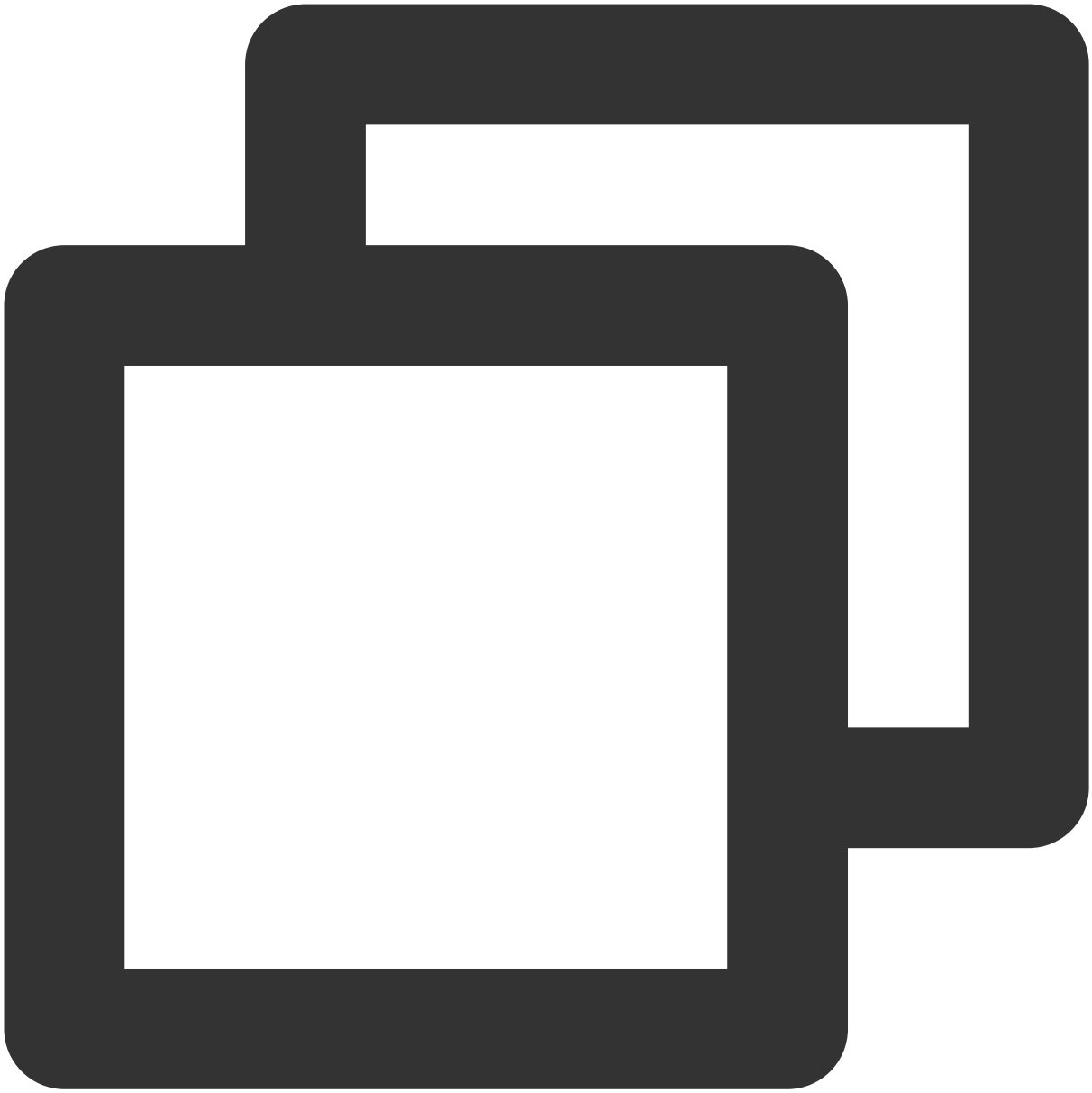
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```
public Guzzle\\Service\\Resource\\Model FileJobs4Hash(array $args = array());
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // https://intl.cloud.tencent.com/document/product/436/53990: Sync Request for
    $result = $cosClient->FileJobs4Hash(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => 'for-test.mp4', // File in the bucket
        'Type' => 'md5', // Supported hash algorithm. Valid values: `md5`, `sha1`,
//        'AddToHeader' => 'true', // Whether to automatically add the calculated h
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
    /**
     * Possible exceptions
     * 1. Error Message: file processing is not active yet, please apply for file p
     *    Solution: Activate the file processing service.
     */
}
```

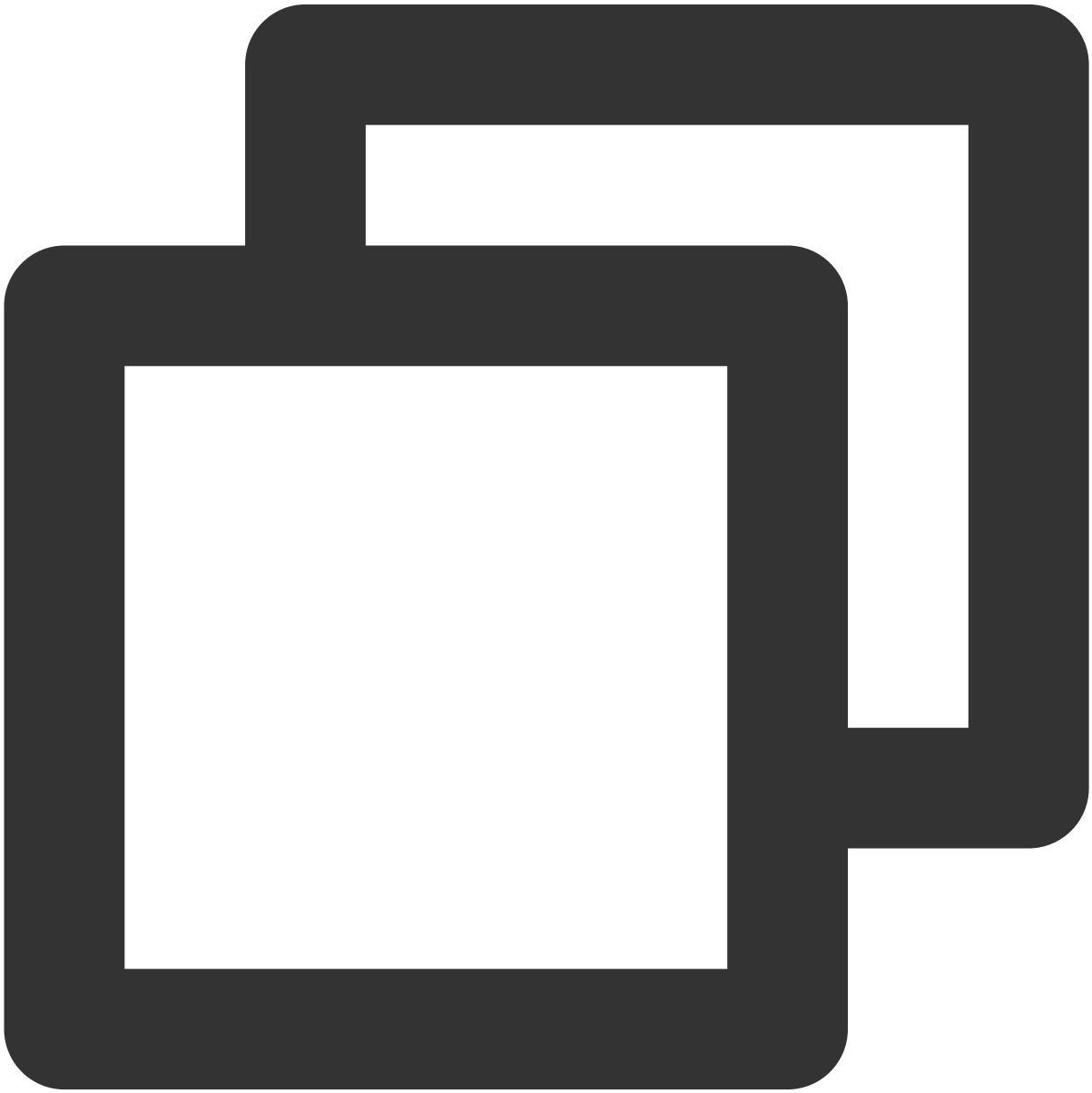
Parameter description

`Request` has the following sub-nodes:

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID` .	Yes
Key	String	File in the bucket	Yes
Type	String	Supported hash algorithm. Valid values: `md5` , `sha1` , `sha256` .	Yes
AddToHeader	String	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.	No

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI
    [ContentType] => application/xml
    [ContentLength] => 421
    [FileHashCodeResult] => Array
        (
            [Etag] => "1f3ede740849eaa2e79e9b269ea3db2a"
            [LastModified] => 2023-01-29T11:31:02+0000
            [MD5] => 1f3ede740849eaa2e79e9b269ea3db2a
            [FileSize] => 42120
```

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```
        )

    [Input] => Array
        (
            [Region] => ap-guangzhou
            [Bucket] => examplebucket-1250000000
            [Object] => sound01.mp3
        )

    [Key] => sound01.mp3
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/sound01.mp
)
```

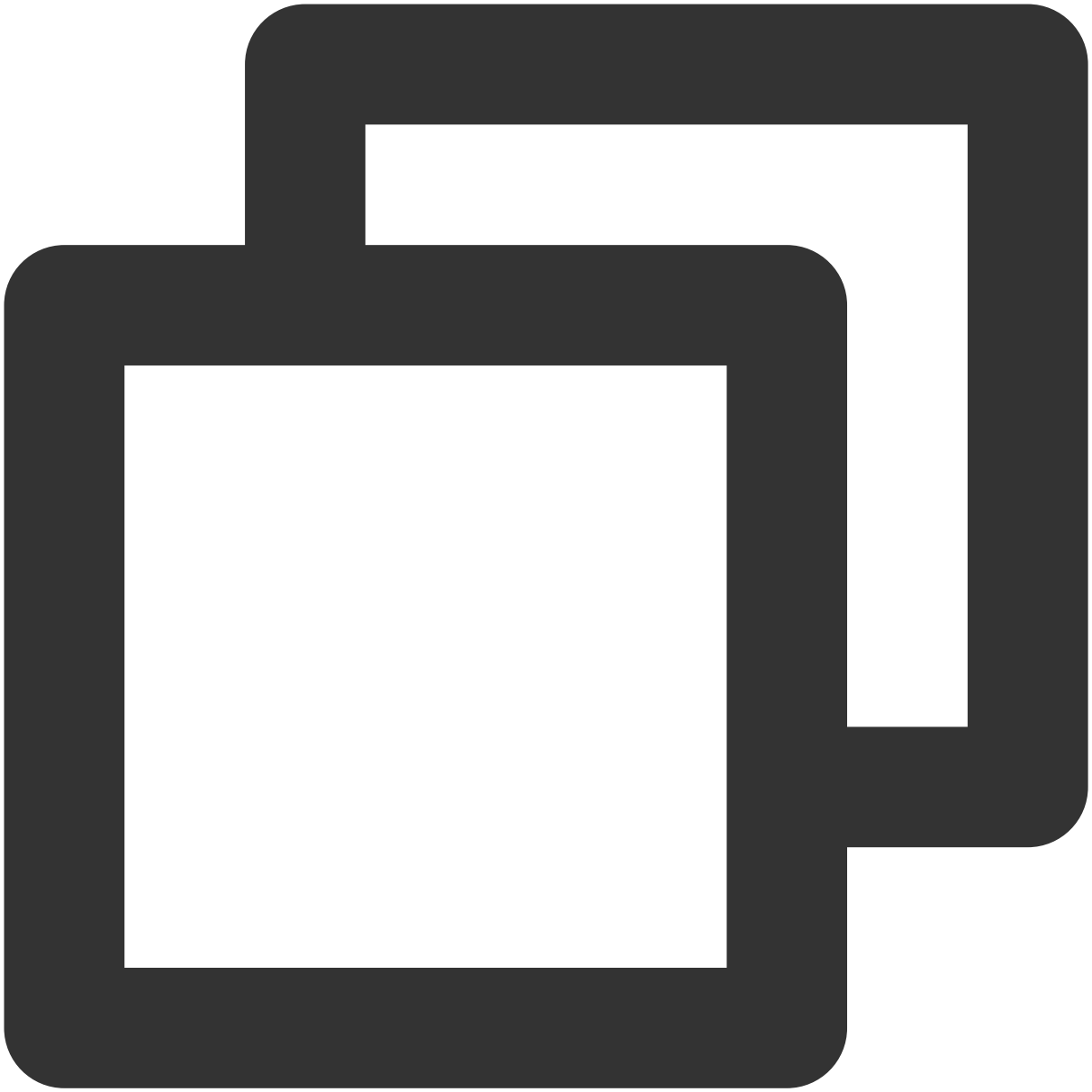
Submitting a Hash Calculation Job

Feature description

This API adopts a POST request method. You can submit a job to perform hash calculation and asynchronously return a calculated hash value.

Method prototype

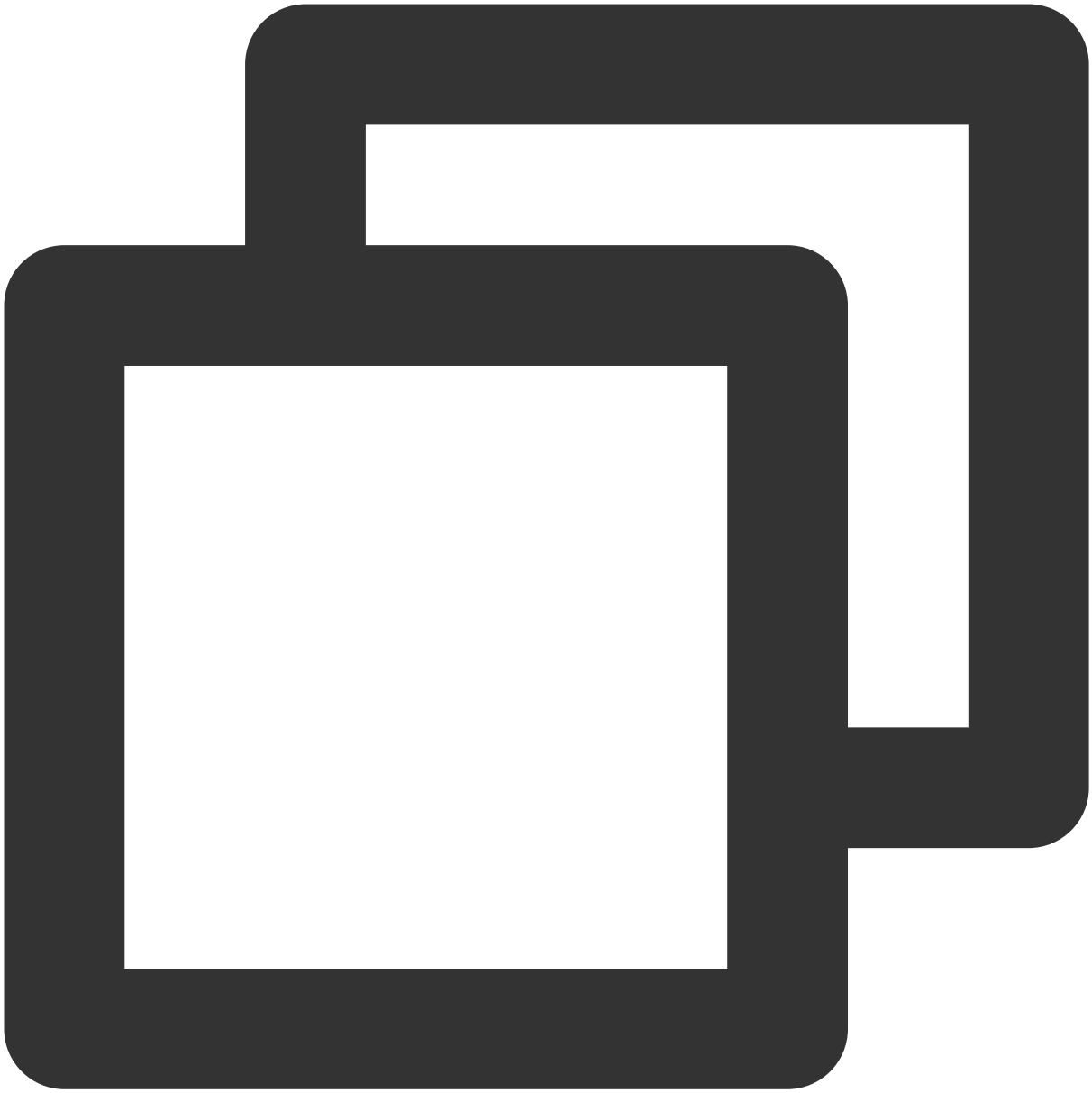
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```
public Guzzle\\Service\\Resource\\Model createFileHashCodeJobs(array $args = array(
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // https://intl.cloud.tencent.com/document/product/436/53991: Submitting a Hash
    $result = $cosClient->createFileHashCodeJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'FileHashCode',
//        'QueueId' => 'pcc3ae89sa9d807fs89dg789sdg',
        'Input' => array(
            'Object' => 'test.mp4',
        ),
        'Operation' => array(
            'UserData' => 'xxx',
            'FileHashCodeConfig' => array(
                'Type' => 'MD5',
                'AddToHeader' => 'true',
            ),
        ),
//        'CallBackFormat' => '',
//        'CallBackType' => '',
//        'CallBack' => '',
//        'CallBackMqConfig' => array(
//            'MqRegion' => '',
//            'MqMode' => '',
//            'MqName' => '',
//        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`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

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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
CallBackMqConfig	Request	TDMQ configuration for job callback as described in Structure, 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:

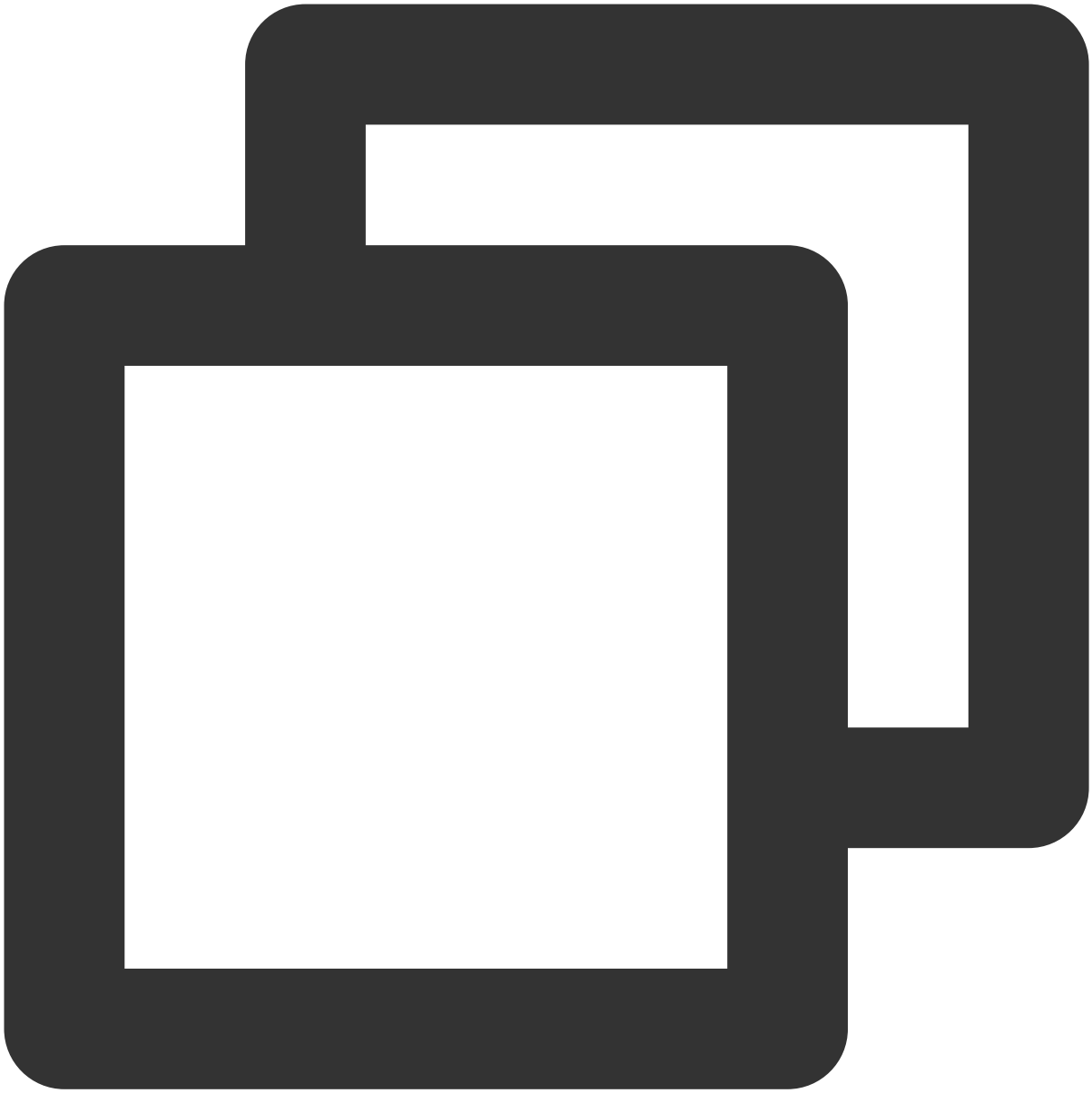
Node Name (Keyword)	Parent Node	Description	Type	Required
Type	Request.Operation.FileHashCodeConfig	Hash algorithm. Valid values: `MD5`, `SHA1`, `SHA256`.	String	Yes

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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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
    [ContentType] => application/xml
    [ContentLength] => 738
    [JobsDetail] => Array
        (
            [Progress] => 0
            [Code] => Success
            [Message] =>
            [JobId] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
```

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```
            [Tag] => FileHashCode
            [State] => Submitted
            [CreationTime] => 2023-01-31T15:49:33+0800
            [StartTime] => -
            [EndTime] => -
            [QueueId] => pcc3ae89sa9d807fs89dg789sdg
            [Input] => Array
                (
                    [BucketId] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [Object] => sound01.mp3
                )

            [Operation] => Array
                (
                    [JobLevel] => 0
                    [UserData] => xxx
                    [FileHashCodeConfig] => Array
                        (
                            [Type] => MD5
                            [AddToHeader] => true
                        )

                )

        )

    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/file_jobs
)
```

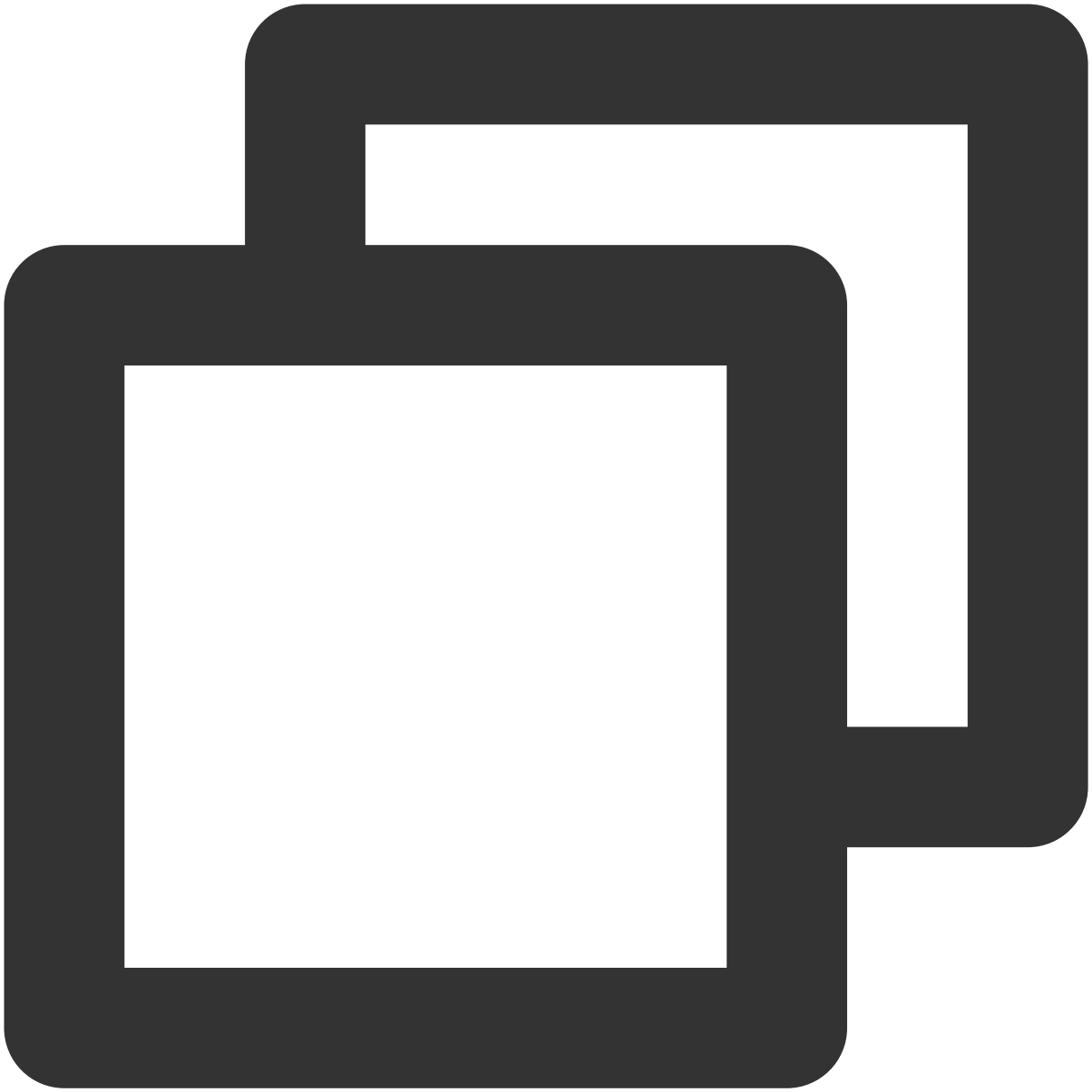
Querying Hash Calculation Result

Feature description

This API is used to query the result of a specified hash calculation job.

Method prototype

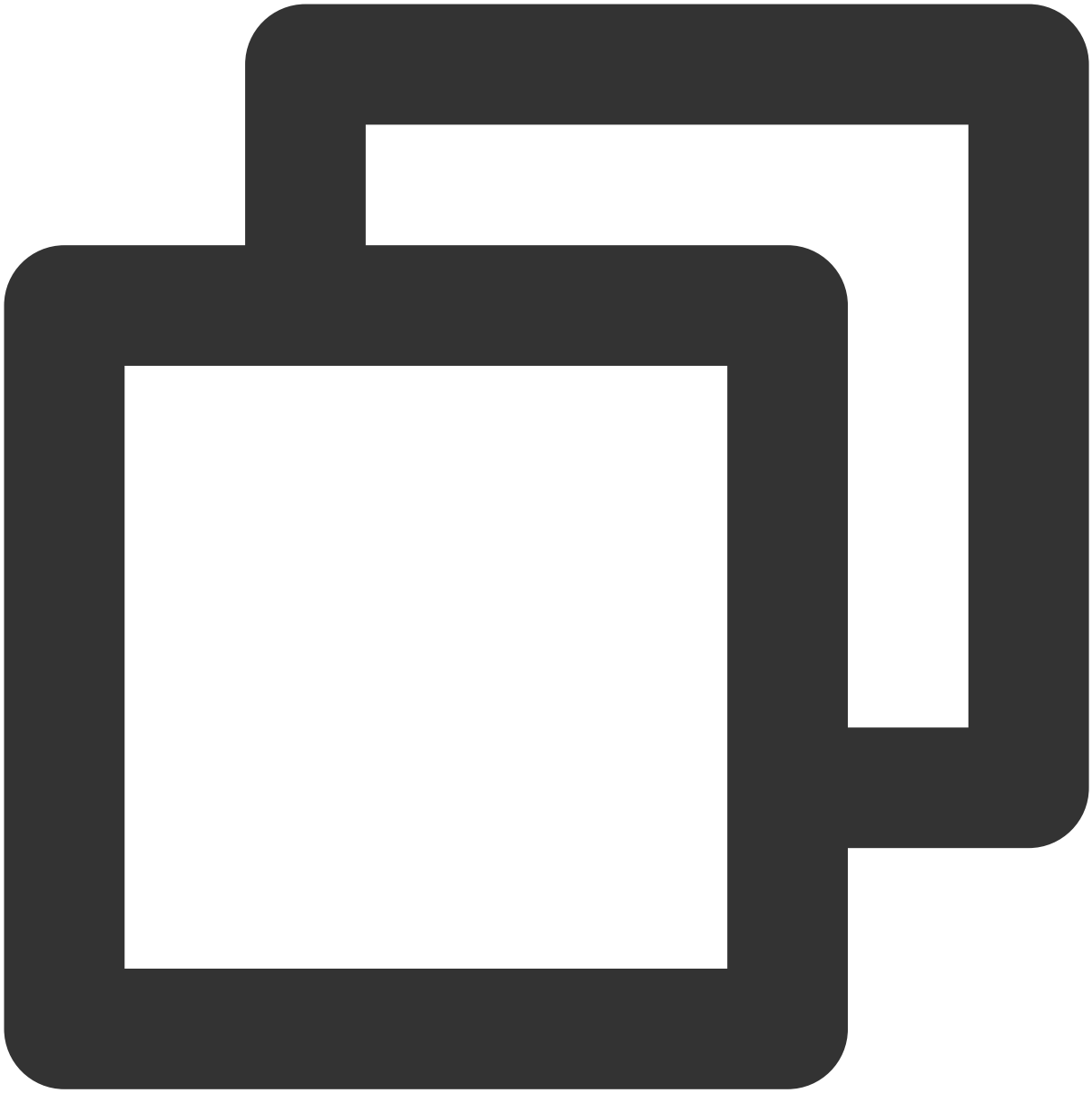
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```
public Guzzle\\Service\\Resource\\Model getFileHashCodeResult(array $args = array()
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // https://intl.cloud.tencent.com/document/product/436/53992: Querying Hash Cal
    $result = $cosClient->getFileHashCodeResult(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => '', // jobId
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

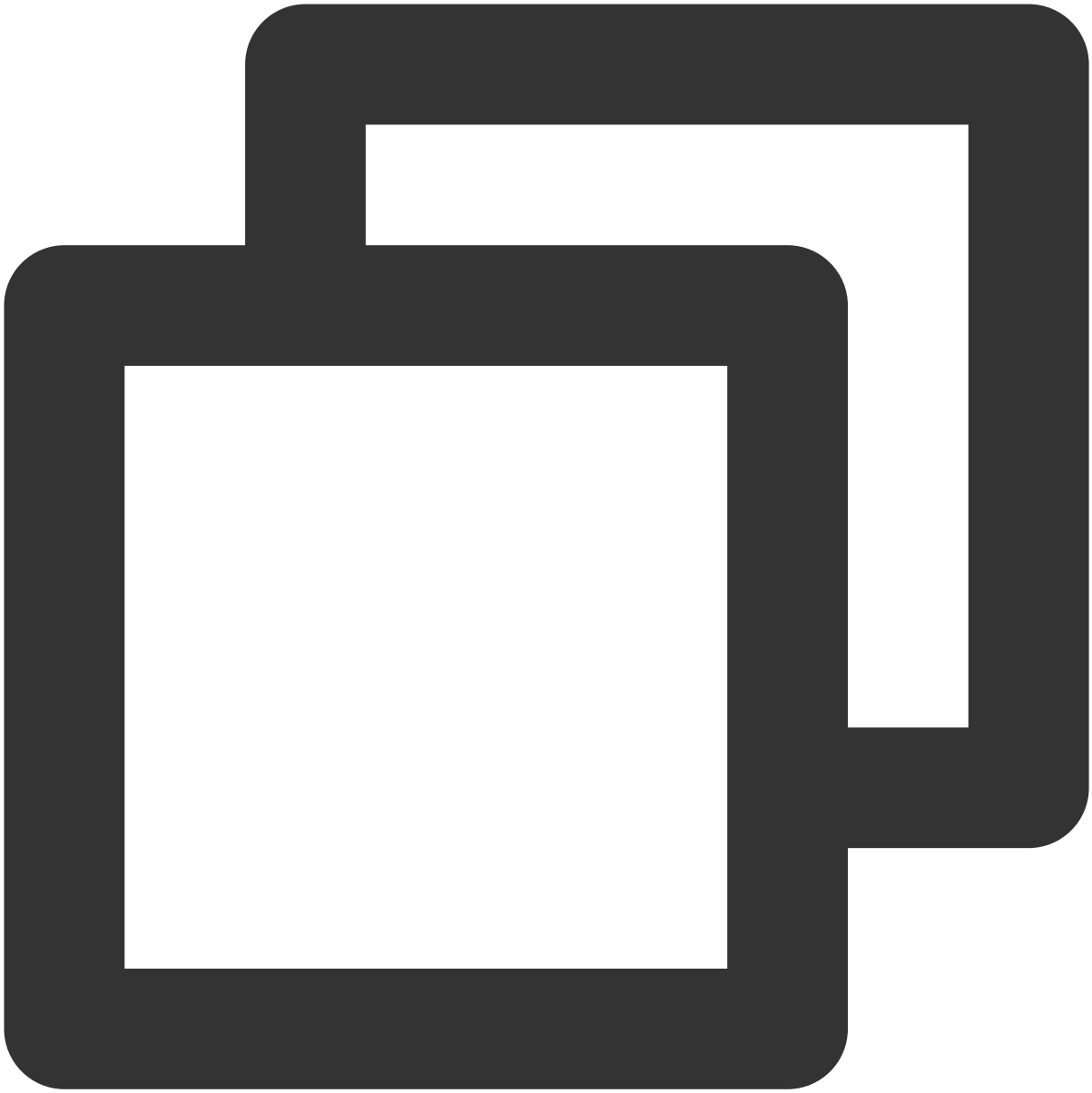
Parameter description

`Request` has the following sub-nodes:

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID` .	Yes
Key	String	jobId	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
    [ContentType] => application/xml
    [ContentLength] => 1048
    [JobsDetail] => Array
        (
            [Progress] => 100
            [Code] => Success
            [Message] => success
            [JobId] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
```

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```
            [Tag] => FileHashCode
            [State] => Success
            [CreationTime] => 2023-01-31T15:49:33+0800
            [StartTime] => 2023-01-31T15:49:33+0800
            [EndTime] => 2023-01-31T15:49:34+0800
            [QueueId] => pcc3ae89sa9d807fs89dg789sdg
            [Input] => Array
                (
                    [BucketId] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [Object] => sound01.mp3
                )

            [Operation] => Array
                (
                    [JobLevel] => 0
                    [UserData] => xxx
                    [FileHashCodeConfig] => Array
                        (
                            [Type] => MD5
                            [AddToHeader] => true
                        )

                    [FileHashCodeResult] => Array
                        (
                            [MD5] => 1f3ede740849eaa2e79e9b269ea3db2a
                            [LastModified] => 2023-01-29T11:31:02+0000
                            [Etag] => "1f3ede740849eaa2e79e9b269ea3db2a"
                            [FileSize] => 42120
                        )

                )

        )

    [Key] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/file_jobs/f
)
```

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File Decompression

Last updated：2024-03-01 14:43:58

Overview

This document provides an overview of APIs and SDK code samples for file decompression.

API	Description
Submitting a file decompression job	Adopts a POST request method. You can submit a job to perform file decompression and asynchronously return decompressed files.
Querying the file decompression result	Queries the result of a specified file decompression job.

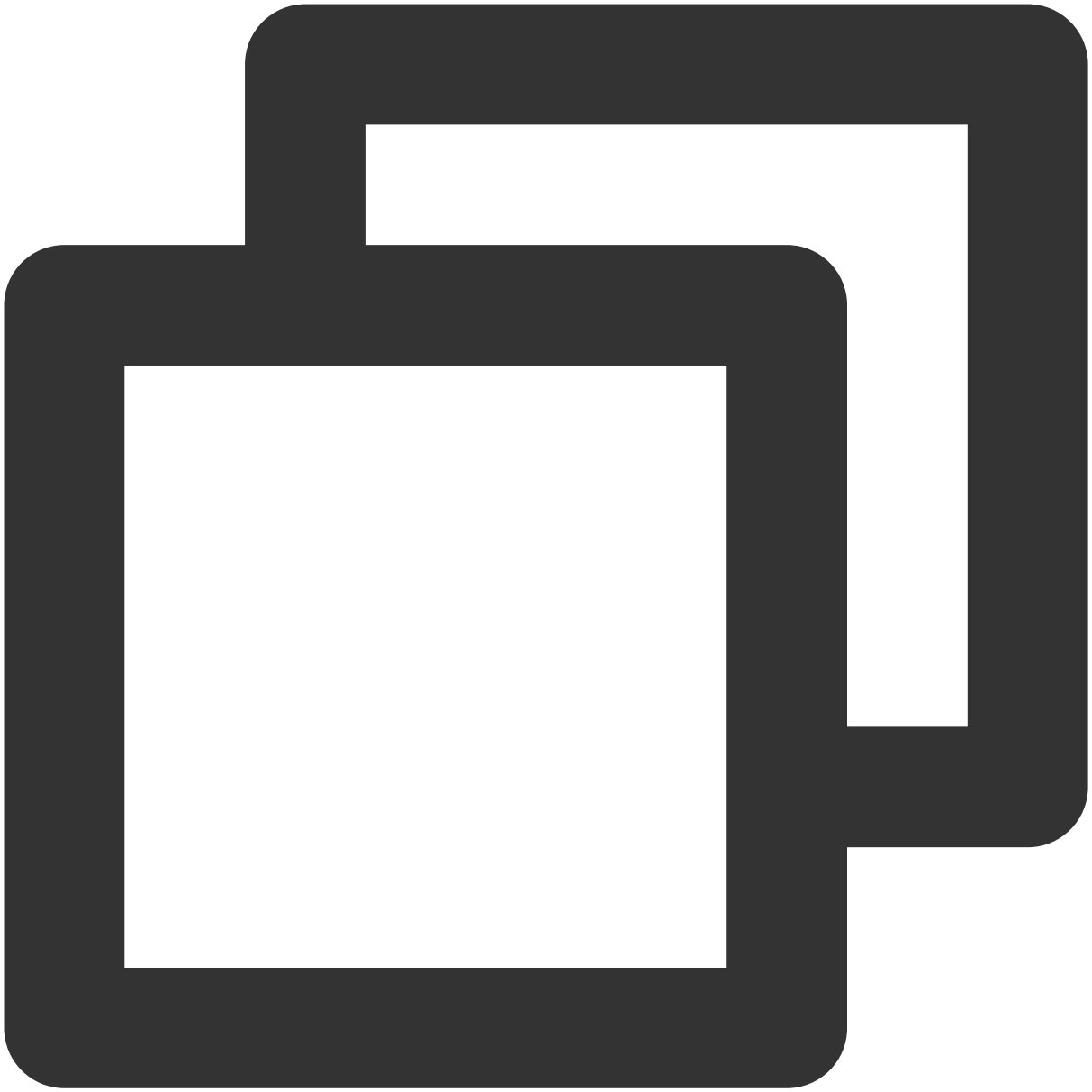
Submitting a File Decompression Job

Feature description

This API adopts a POST request method. You can submit a job to perform file decompression and asynchronously return decompressed files.

Method prototype

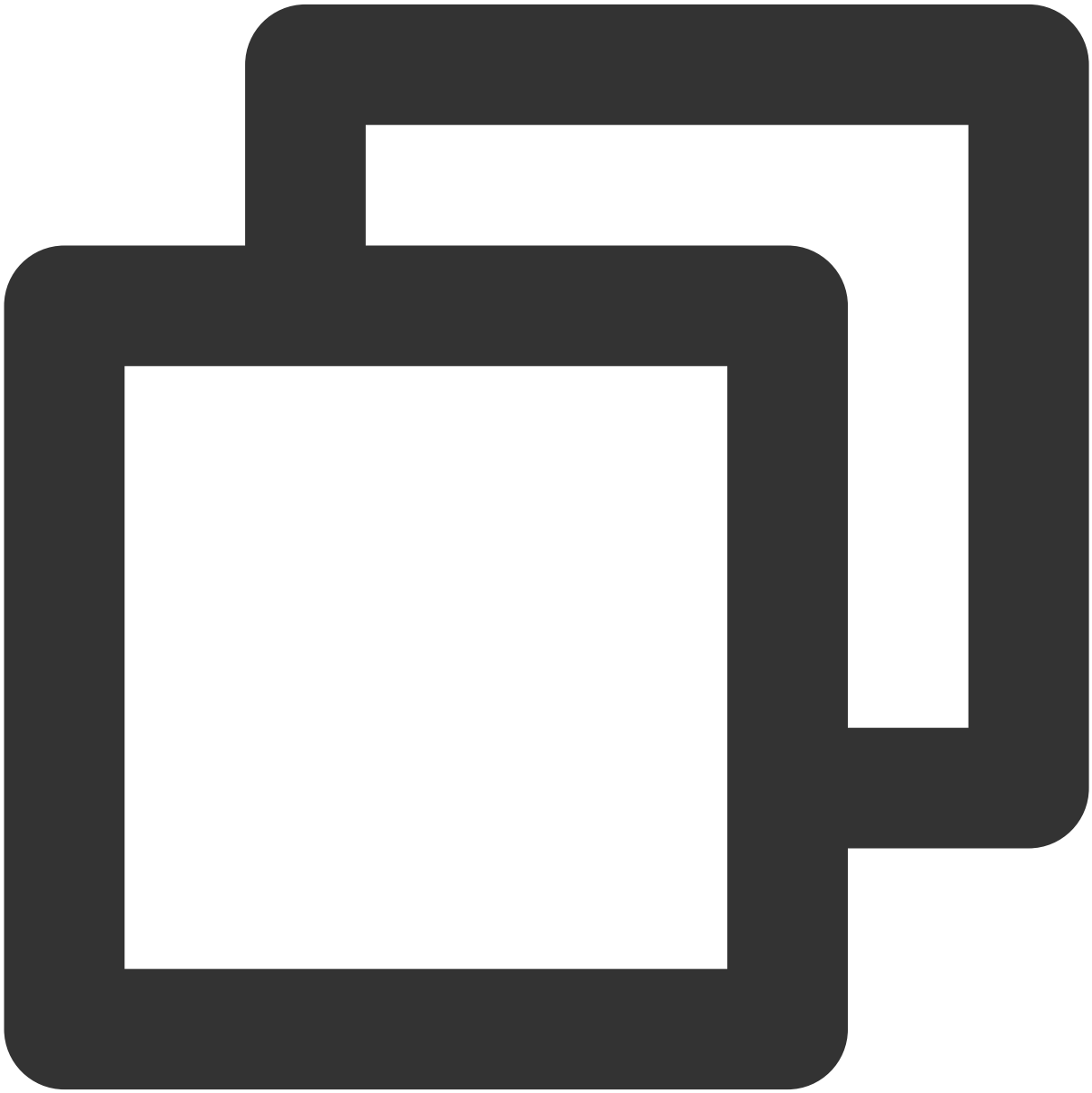
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```
public Guzzle\\Service\\Resource\\Model createFileUncompressJobs(array $args = arra
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', //Protocol, which is http by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // https://intl.cloud.tencent.com/document/product/436/53993: Submitting a File
    $result = $cosClient->createFileUncompressJobs(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Tag' => 'FileUncompress',
//        'QueueId' => 'pcc3ae89sa9d807fs89dg789sdg',
        'Input' => array(
            'Object' => 'test.zip',
        ),
        'Operation' => array(
            'UserData' => 'xxx',
            'FileUncompressConfig' => array(
                'Prefix' => 'prefix',
                'PrefixReplaced' => '1',
            ),
            'Output' => array(
                'Region' => $region,
                'Bucket' => 'examplebucket-1250000000', // Bucket name in the forma
            ),
        ),
//        'CallBackFormat' => '',
//        'CallBackType' => '',
//        'CallBack' => '',
//        'CallBackMqConfig' => array(
//            'MqRegion' => '',
//            'MqMode' => '',
//            'MqName' => '',
//        ),
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

Parameter description

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Tag	Request	Job type. It is `FileUncompress` for file	String	Yes

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		decompression by default.		
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 queue.	String	No
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, 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
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

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`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
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	String	No

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		decompressed to the current directory (including the name of the compressed package) of the compressed package. Default value: `0` .		

Notes:

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` .

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` .

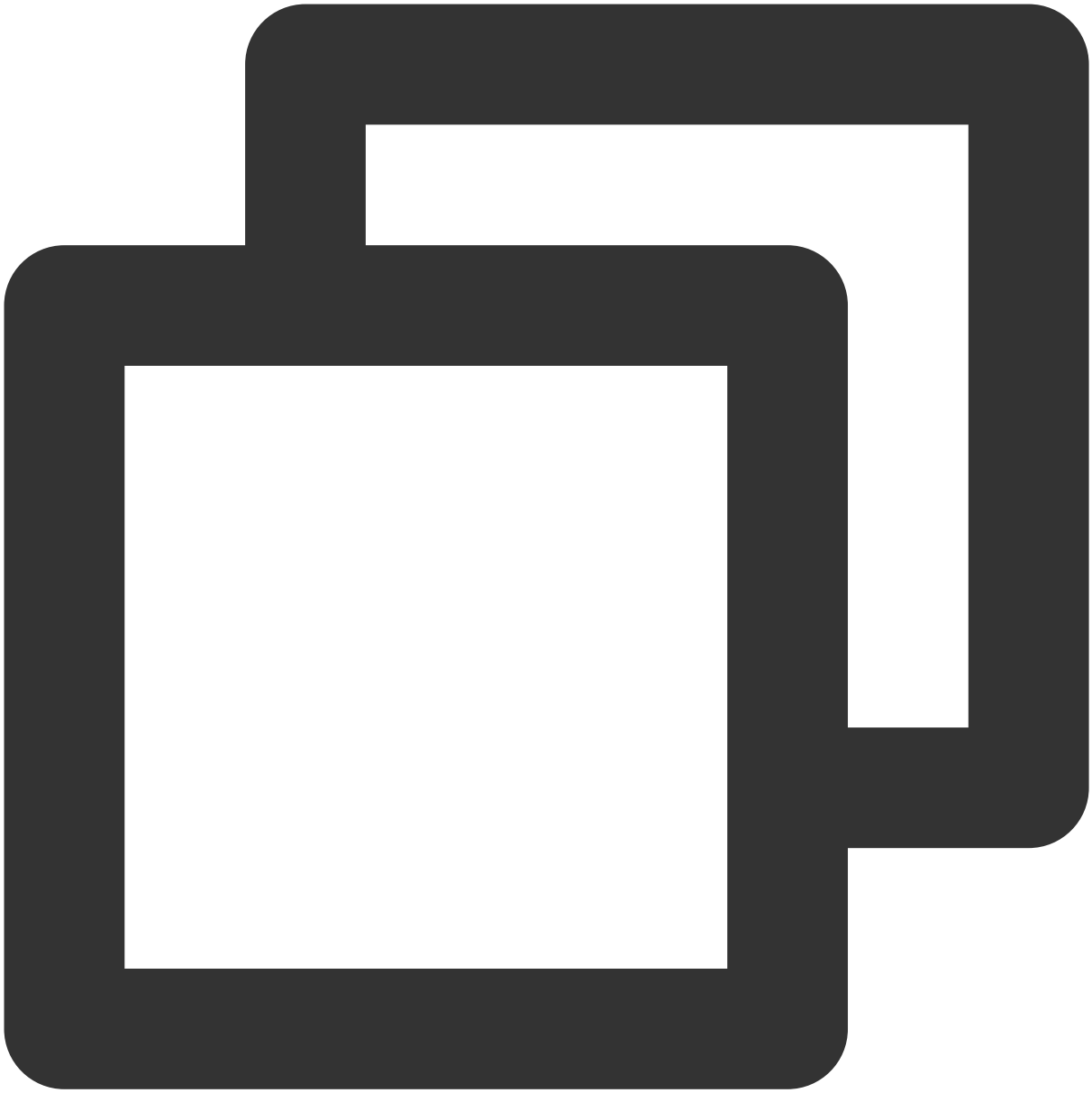
`2` : The `image.jpg` file is stored in the `456` directory with prefix `123/test` and its full directory is `456/123/test/image.jpg` .

`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

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
    [ContentType] => application/xml
    [ContentLength] => 872
    [JobsDetail] => Array
        (
            [Progress] => 0
            [Code] => Success
            [Message] =>
            [JobId] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
```

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```
            [Tag] => FileUncompress
            [State] => Submitted
            [CreationTime] => 2023-01-31T16:05:31+0800
            [StartTime] => -
            [EndTime] => -
            [QueueId] => pcc3ae89sa9d807fs89dg789sdg
            [Input] => Array
                (
                    [BucketId] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [Object] => test.zip
                )

            [Operation] => Array
                (
                    [JobLevel] => 0
                    [UserData] => xxx
                    [Output] => Array
                        (
                            [Region] => ap-guangzhou
                            [Bucket] => examplebucket-1250000000
                        )

                    [FileUncompressConfig] => Array
                        (
                            [Prefix] => prefix
                            [PrefixReplaced] => 1
                        )

                )

        )

    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/file_jobs
)
```

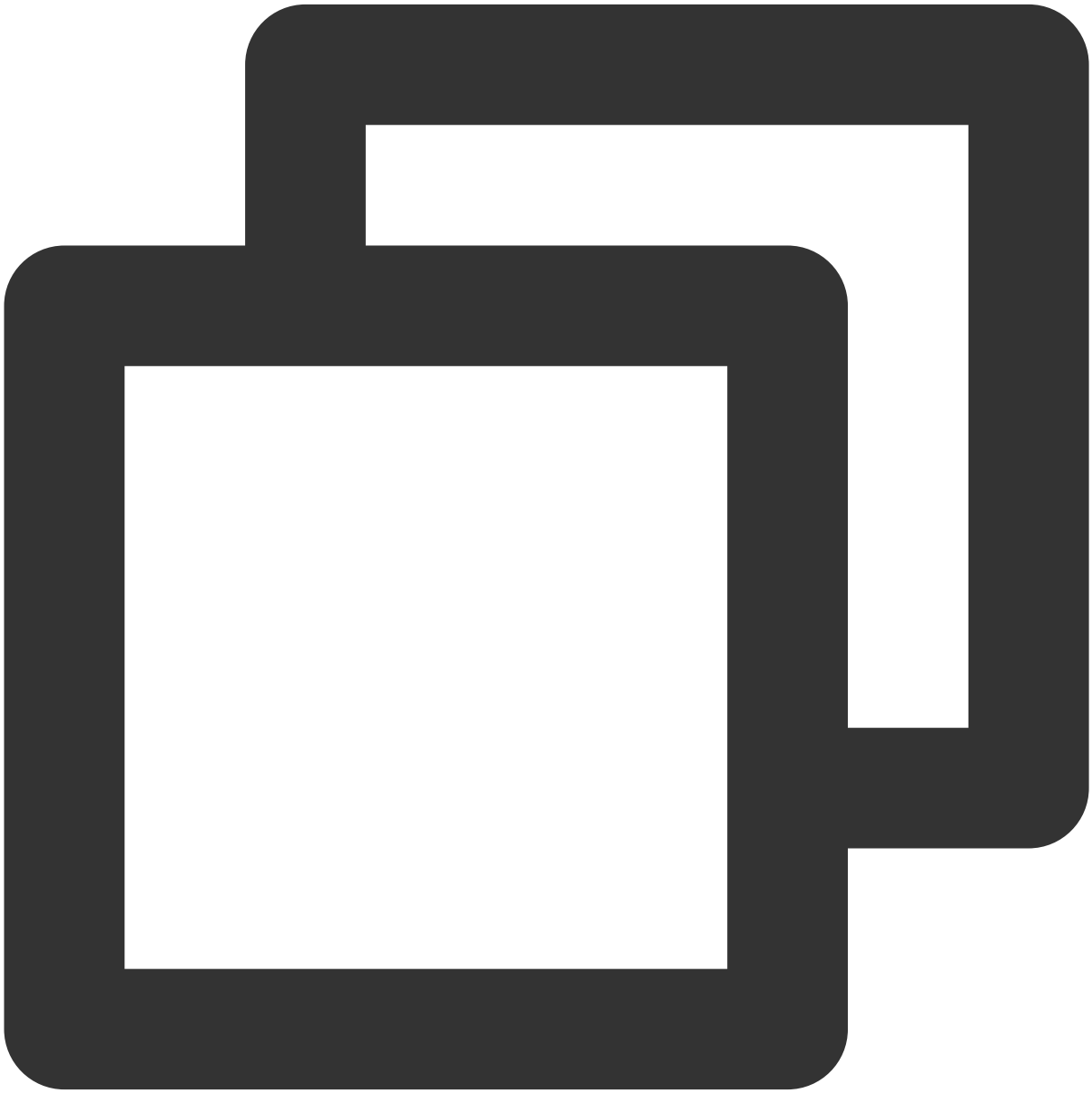
Querying File Decompression Result

Feature description

This API is used to query the result of a specified file decompression job.

Method prototype

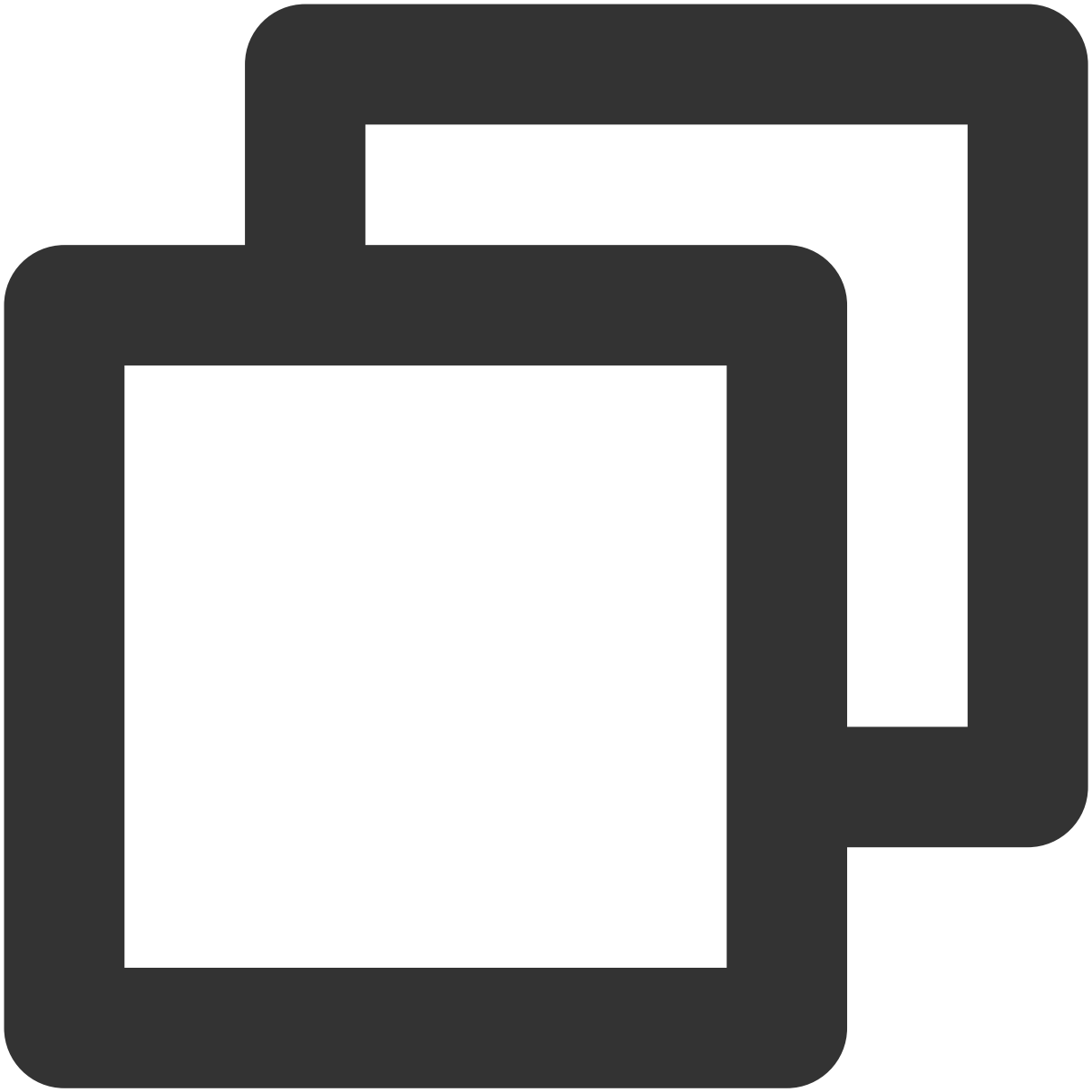
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```
public Guzzle\\Service\\Resource\\Model getFileUncompressResult(array $args = array
```

Sample request

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```
<?php

require dirname(__FILE__, 2) . '/vendor/autoload.php';

$secretId = "SECRETID"; //Replace it with the actual `SecretId`, which can be viewe
$secretKey = "SECRETKEY"; //Replace it with the actual `SecretKey`, which can be vi
$region = "ap-beijing"; //Replace it with the actual `region`, which can be viewed
$cosClient = new Qcloud\\Cos\\Client(
    array(
        'region' => $region,
        'schema' => 'https', // Protocol, which is `http` by default
```

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```
        'credentials'=> array(
            'secretId'  => $secretId ,
            'secretKey' => $secretKey)));
try {
    // https://intl.cloud.tencent.com/document/product/436/53994: Querying File Dec
    $result = $cosClient->getFileUncompressResult(array(
        'Bucket' => 'examplebucket-1250000000', // Bucket name in the format of `Bu
        'Key' => '', // jobId
    ));
    // Request succeeded
    print_r($result);
} catch (\\Exception $e) {
    // Request failed
    echo($e);
}
```

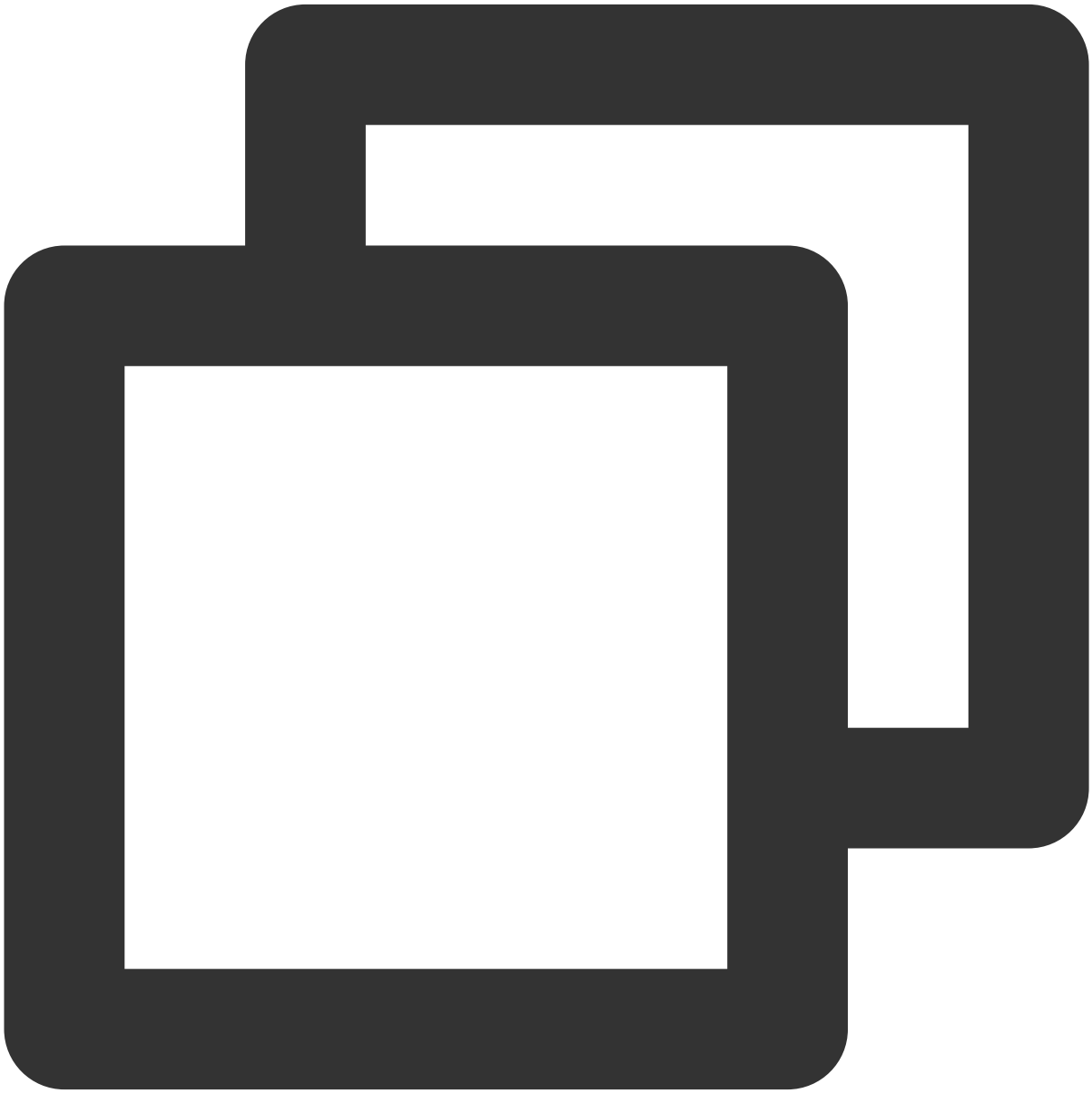
Parameter description

`Request` has the following sub-nodes:

Parameter	Type	Description	Required
Bucket	String	Bucket name in the format of `BucketName-APPID` .	Yes
Key	String	jobId	Yes

Sample response

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```
GuzzleHttp\\Command\\Result Object
(
    [RequestId] => NjNkOGM2NmVfZTYxNmY5MSAASJPOJCIANSIDNAI=
    [ContentType] => application/xml
    [ContentLength] => 1092
    [JobsDetail] => Array
        (
            [Progress] => 100
            [Code] => Success
            [Message] => success
            [JobId] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
```

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```
            [Tag] => FileUncompress
            [State] => Success
            [CreationTime] => 2023-01-31T16:05:31+0800
            [StartTime] => 2023-01-31T16:05:31+0800
            [EndTime] => 2023-01-31T16:05:31+0800
            [QueueId] => pcc3ae89sa9d807fs89dg789sdg
            [Input] => Array
                (
                    [BucketId] => examplebucket-1250000000
                    [Region] => ap-guangzhou
                    [Object] => test.zip
                )

            [Operation] => Array
                (
                    [JobLevel] => 0
                    [UserData] => xxx
                    [Output] => Array
                        (
                            [Region] => ap-guangzhou
                            [Bucket] => examplebucket-1250000000
                        )

                    [FileUncompressConfig] => Array
                        (
                            [Prefix] => prefix
                            [PrefixReplaced] => 1
                        )

                    [FileUncompressResult] => Array
                        (
                            [Region] => ap-guangzhou
                            [Bucket] => examplebucket-1250000000
                            [FileCount] => 6
                        )

                )

        )

    [Key] => fcd32dbdaa13b11esa9ds8g0d98gd0h85
    [Bucket] => examplebucket-1250000000
    [Location] => examplebucket-1250000000.ci.ap-guangzhou.myqcloud.com/file_jobs/f
)
```

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Python SDK
Getting Started

Last updated：2024-03-01 14:57:12

Download and Installation

Relevant resources

Download the source code of COS's XML Python SDK.

Download the XML Python SDK.

Download the XML Python Demo.

For the complete sample code, see SDK Sample Code.

For the SDK changelog, see Changelog.

For SDK FAQs, see Python SDK FAQs.

Note

If you encounter errors such as non-existent functions or methods when using the XML version of the SDK, please update the SDK to the latest version and try again.

Environmental dependencies

Currently, COS’s XML Python SDK supports Python 2.7, Python 3.4, and later.

Note

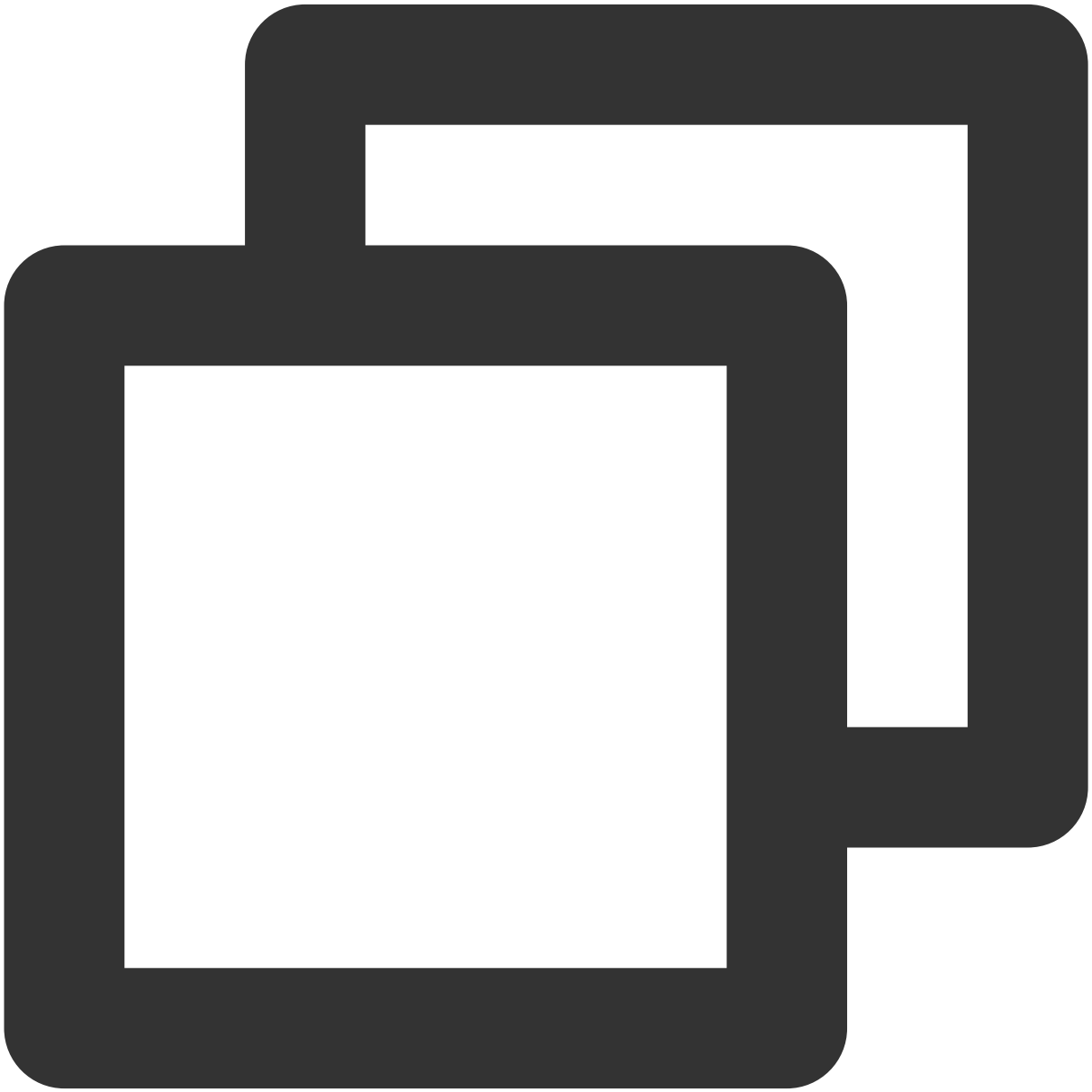
For the definitions of parameters such as SecretId, SecretKey, Bucket, and Region, see COS’s Glossary.

Installing SDK

You can install the SDK in three ways: installation via pip, manual installation, and offline installation.

Installing via pip (recommended)

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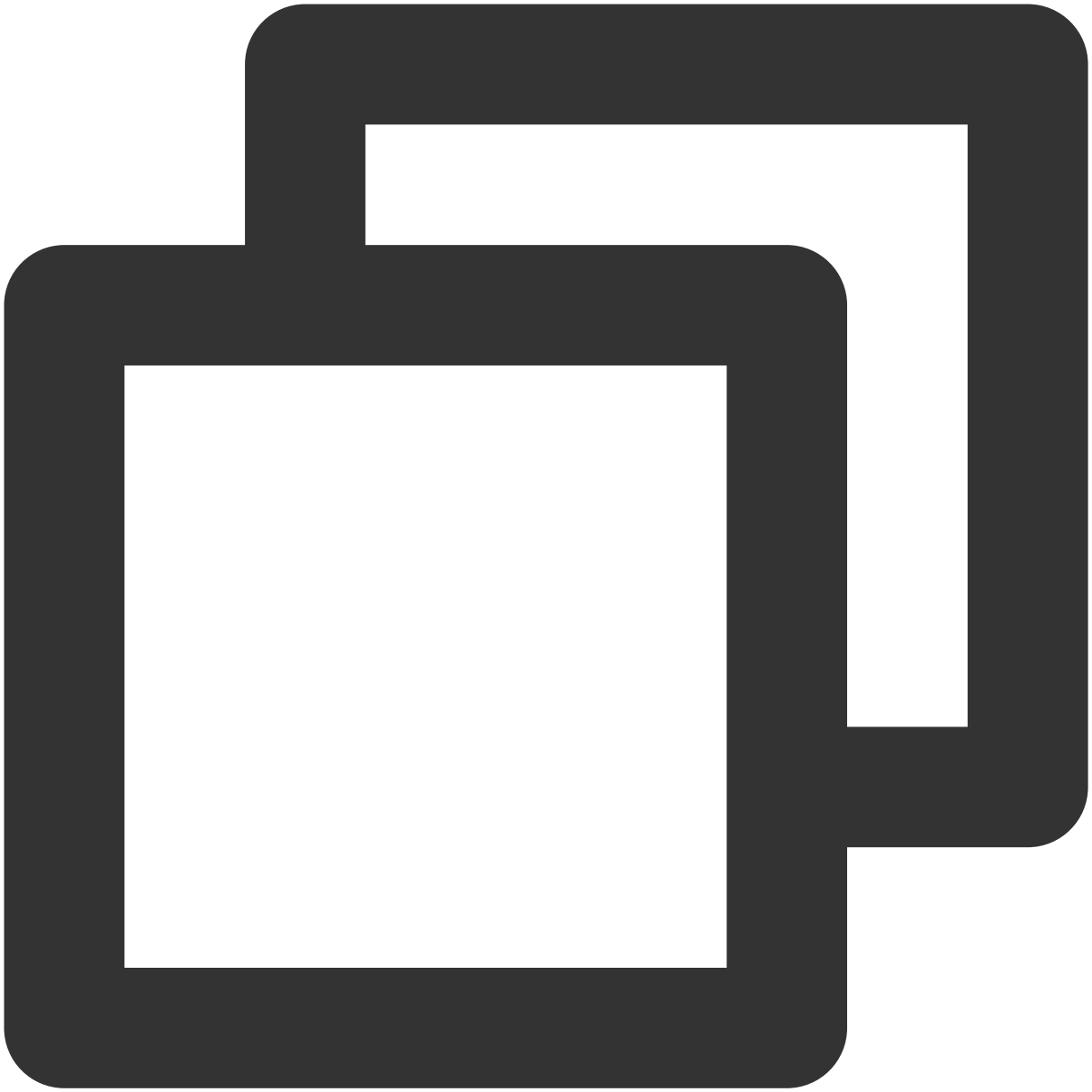


```
pip install -U cos-python-sdk-v5
```

Manual installation

Download the source code here and install the SDK manually via setup by running the following command:

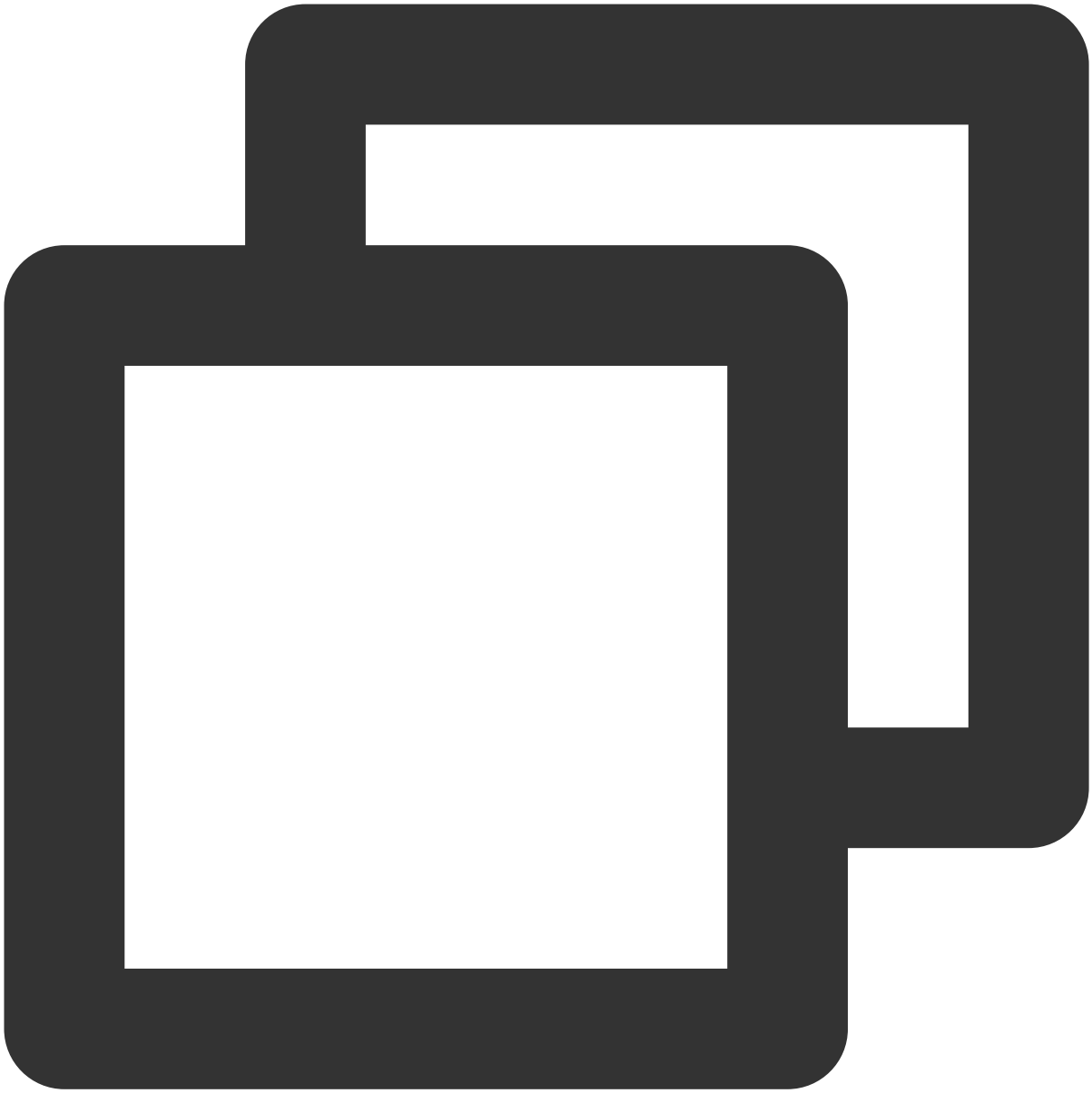
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```
python setup.py install
```

Offline installation

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```
# Run the following commands on a device that is connected to the Internet
mkdir cos-python-sdk-packages
pip download cos-python-sdk-v5 -d cos-python-sdk-packages
tar -czvf cos-python-sdk-packages.tar.gz cos-python-sdk-packages
# Copy the installation package to a device that is not connected to the Internet a
# Please make sure that the version of Python on the two computers is the same; oth
tar -xzvf cos-python-sdk-packages.tar.gz
pip install cos-python-sdk-v5 --no-index -f cos-python-sdk-packages
```

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Directions

The section below describes how to use the COS SDK for Python to perform basic operations, such as initializing a client, creating a bucket, querying the bucket list, uploading an object, querying the object list, downloading an object, and deleting an object.

Initialization

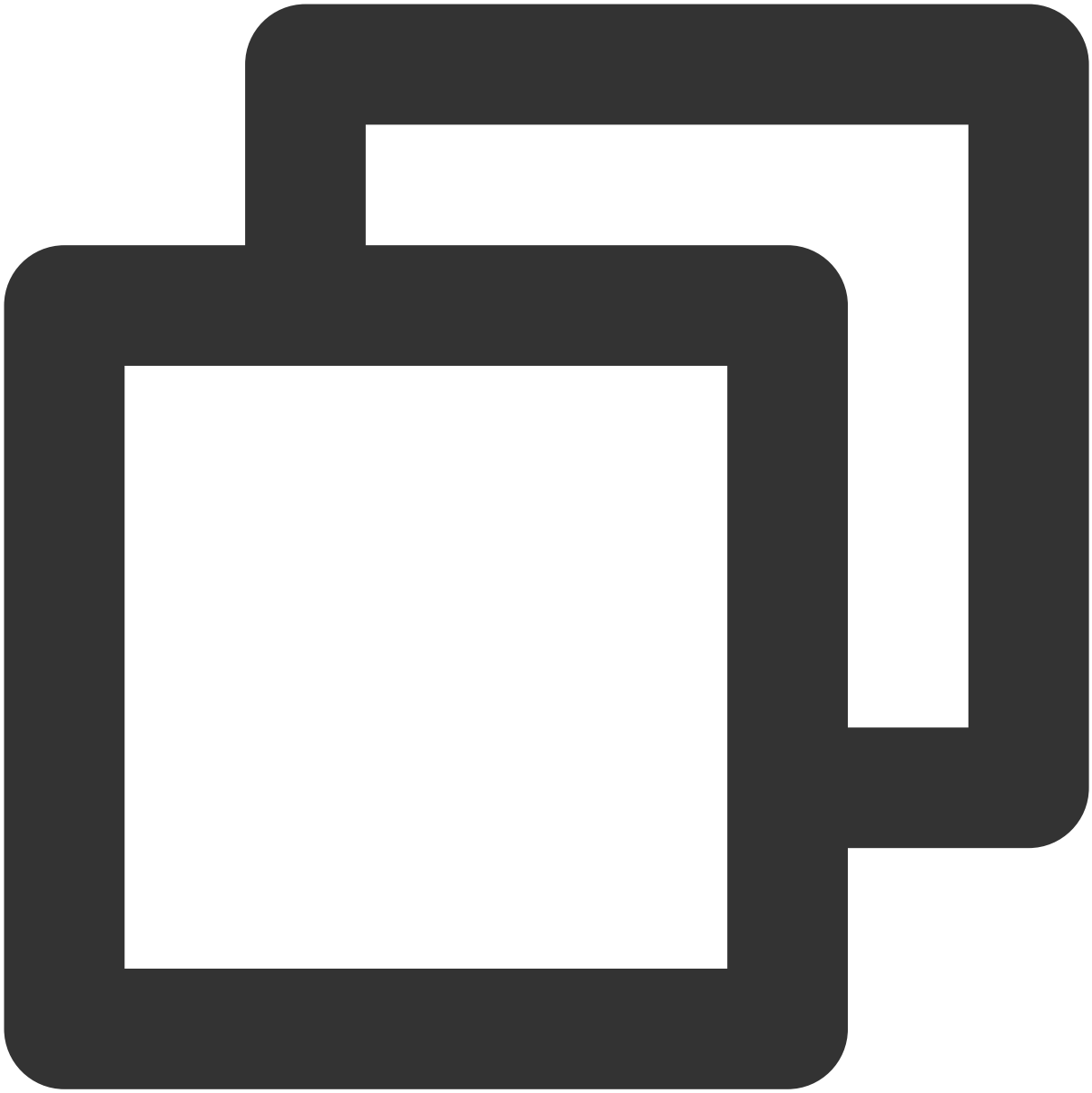
Notes

We recommend you use a temporary key as instructed in Generating and Using Temporary Keys to call the SDK for security purposes. When you apply for a temporary key, follow the Notes on Principle of Least Privilege to avoid leaking resources besides your buckets and objects.
If you must use a permanent key, we recommend you follow the Notes on Principle of Least Privilege to limit the scope of permission on the permanent key.
You can initialize the Python SDK Client in the following ways as needed:

Initializing with the COS default domain (default)

If you use the COS default domain to access COS, the SDK will access COS using a domain name formatted as **{bucket-appid}.cos.{region}.myqcloud.com**.

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)
```

Notes

Usually, you only need to generate one CosS3Client instance for a region, and can upload/download objects repeatedly. Do not generate a CosS3Client instance for every access. Otherwise, the Python process will occupy too many connections and threads.

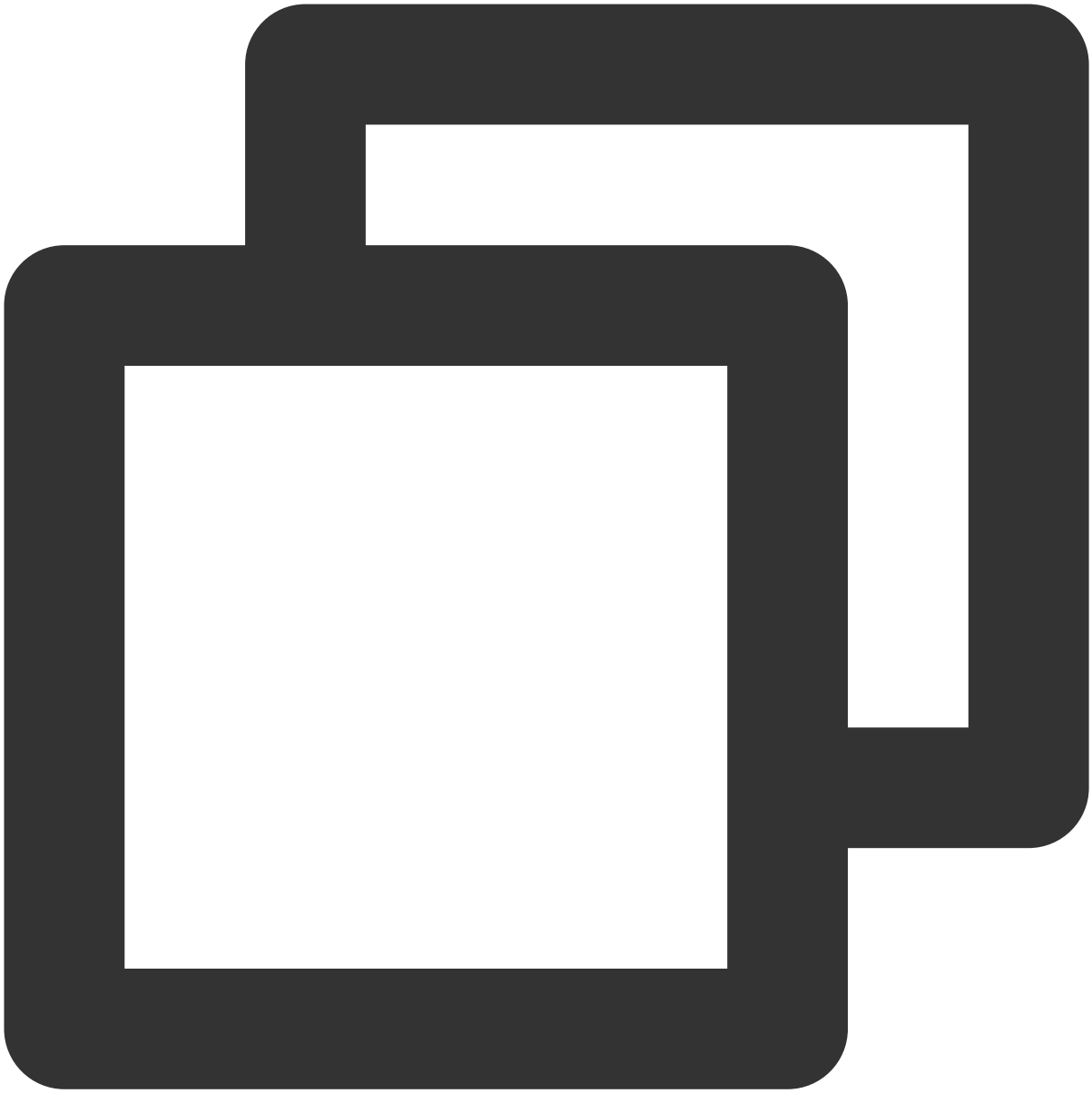
Note

For more information on how to generate and use a temporary key, see Generating and Using Temporary Keys.

Initializing with the COS default domain and proxy

Configure this part when you need to access COS with a proxy. Otherwise, skip this part.

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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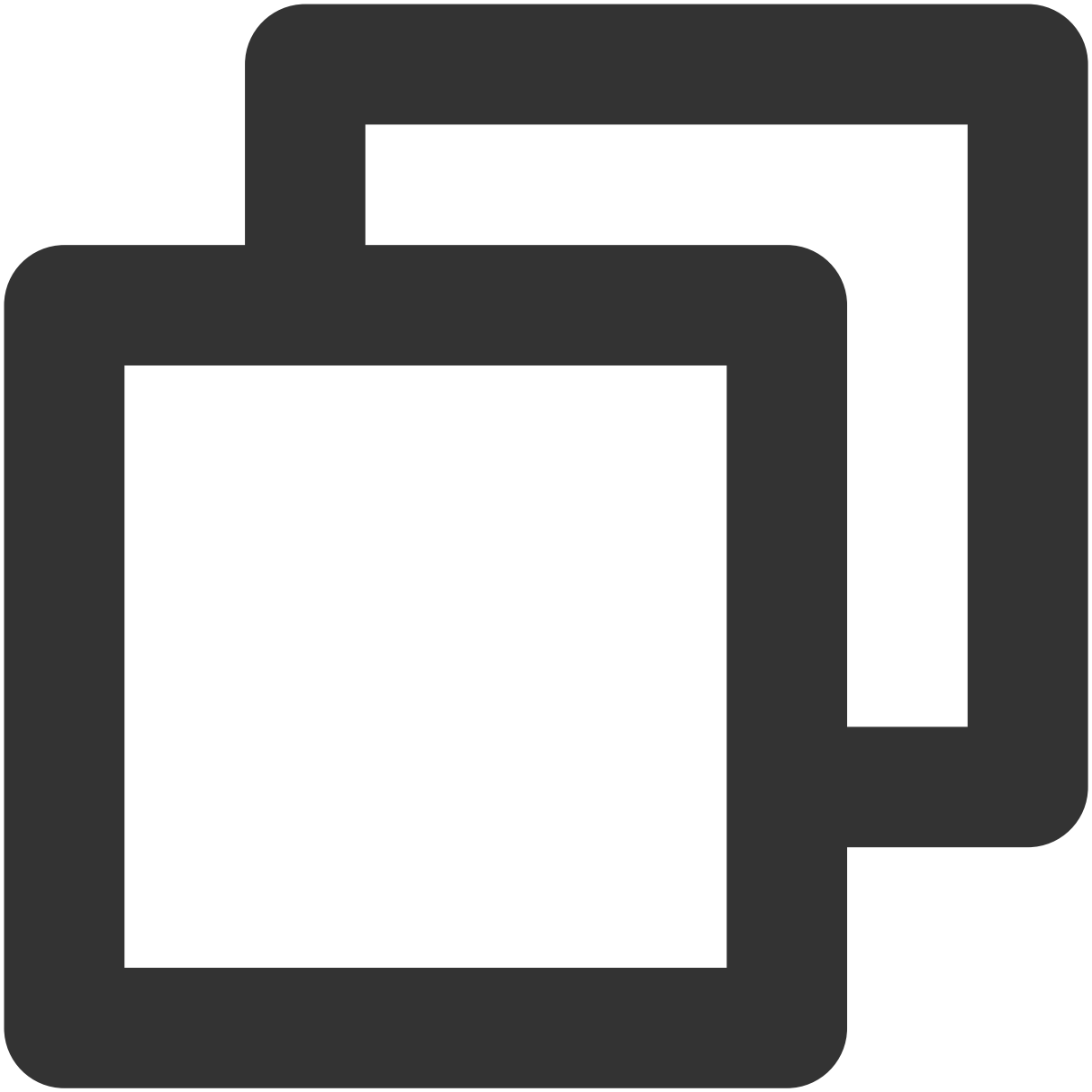
```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
proxies = {
    'http': '127.0.0.1:80',  # Replace it with your HTTP Proxy IP.
    'https': '127.0.0.1:443' # Replace it with your HTTPS Proxy IP.
}

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)
```

Initializing with the COS acceleration domain

If you use the COS global acceleration domain to access COS, the SDK will access COS using a domain name formatted as `{bucket-appid}.cos.accelerate.myqcloud.com`. `region` will not appear in the domain name.

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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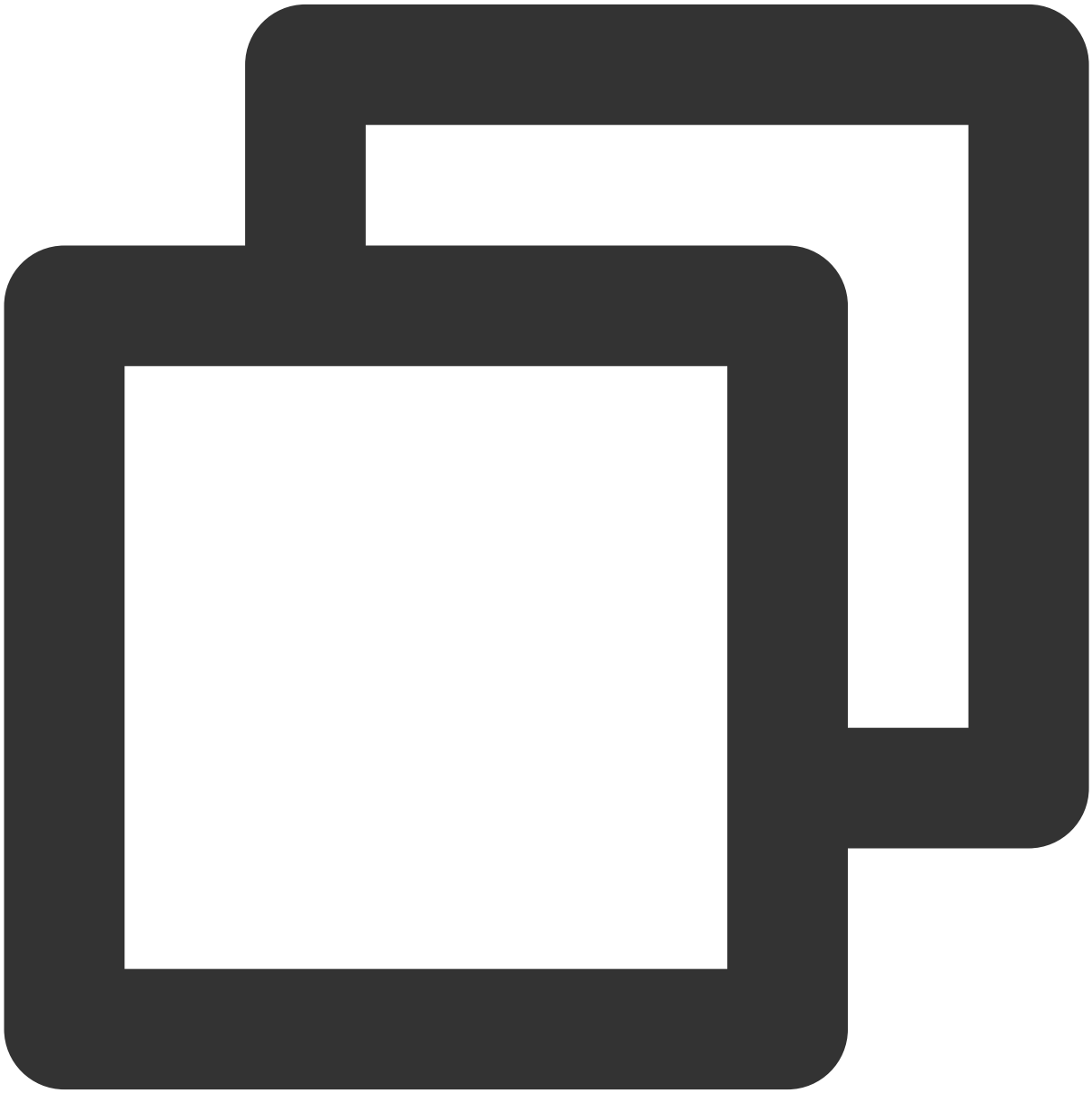
```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = None              # "region" does not need to be specified if you initiali
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

endpoint = 'cos.accelerate.myqcloud.com' # Replace it with your endpoint or the COS
config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)
```

Initializing with a custom domain

If you use a custom domain to access COS, the SDK will directly access COS using the **user domain** configured. Neither `bucket` nor `region` will appear in the domain name.

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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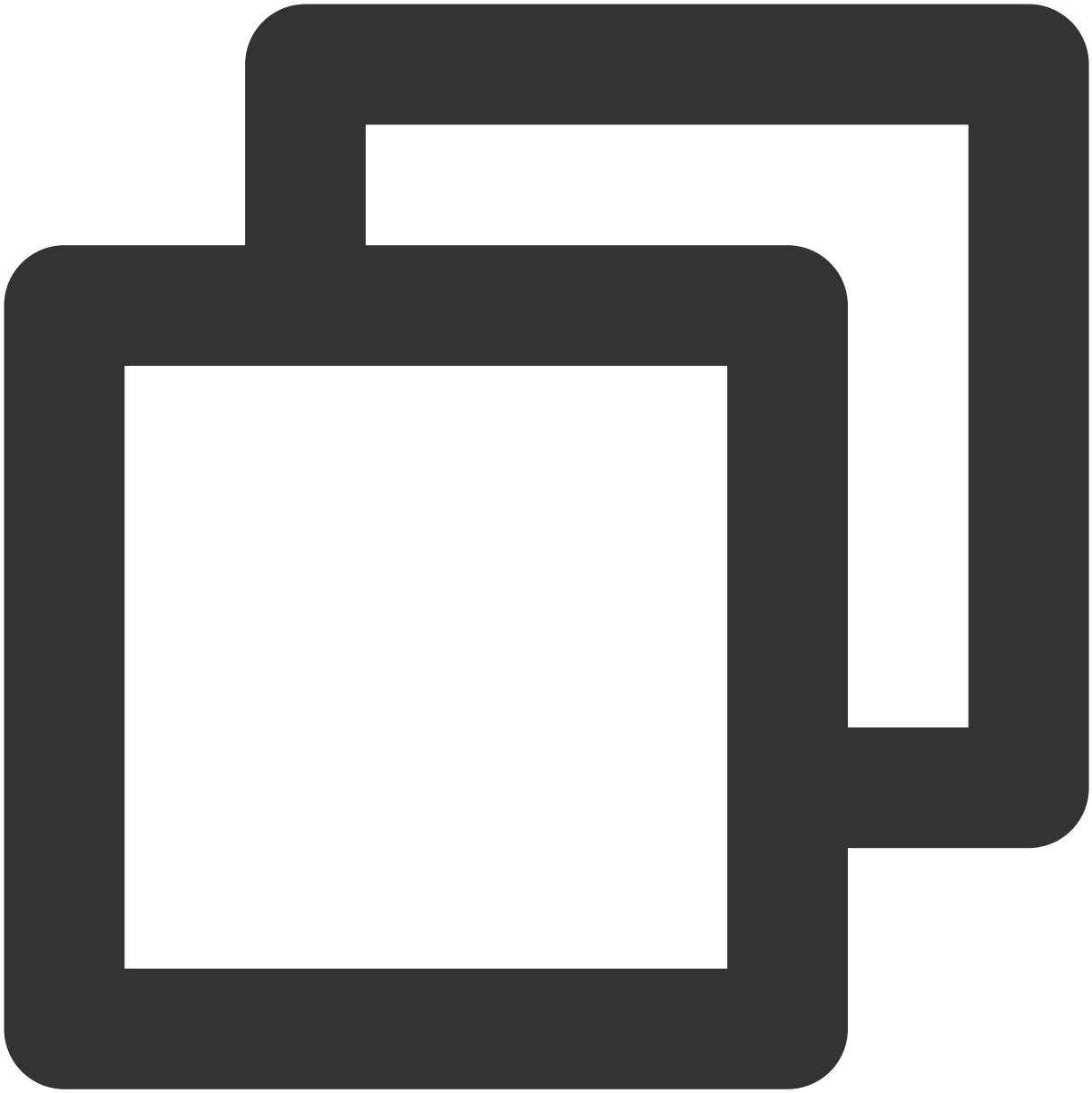
```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = None              # "region" does not need to be specified if you initiali
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

domain = 'user-define.example.com' # Your custom domain. You need to enable the cus
config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)
```

Initializing with the CDN default domain

If you use the CDN default domain to access COS, the SDK will access **CDN** using a domain formatted as **{bucket-appid}.file.mycloud.com** and then access COS via the CDN origin server.

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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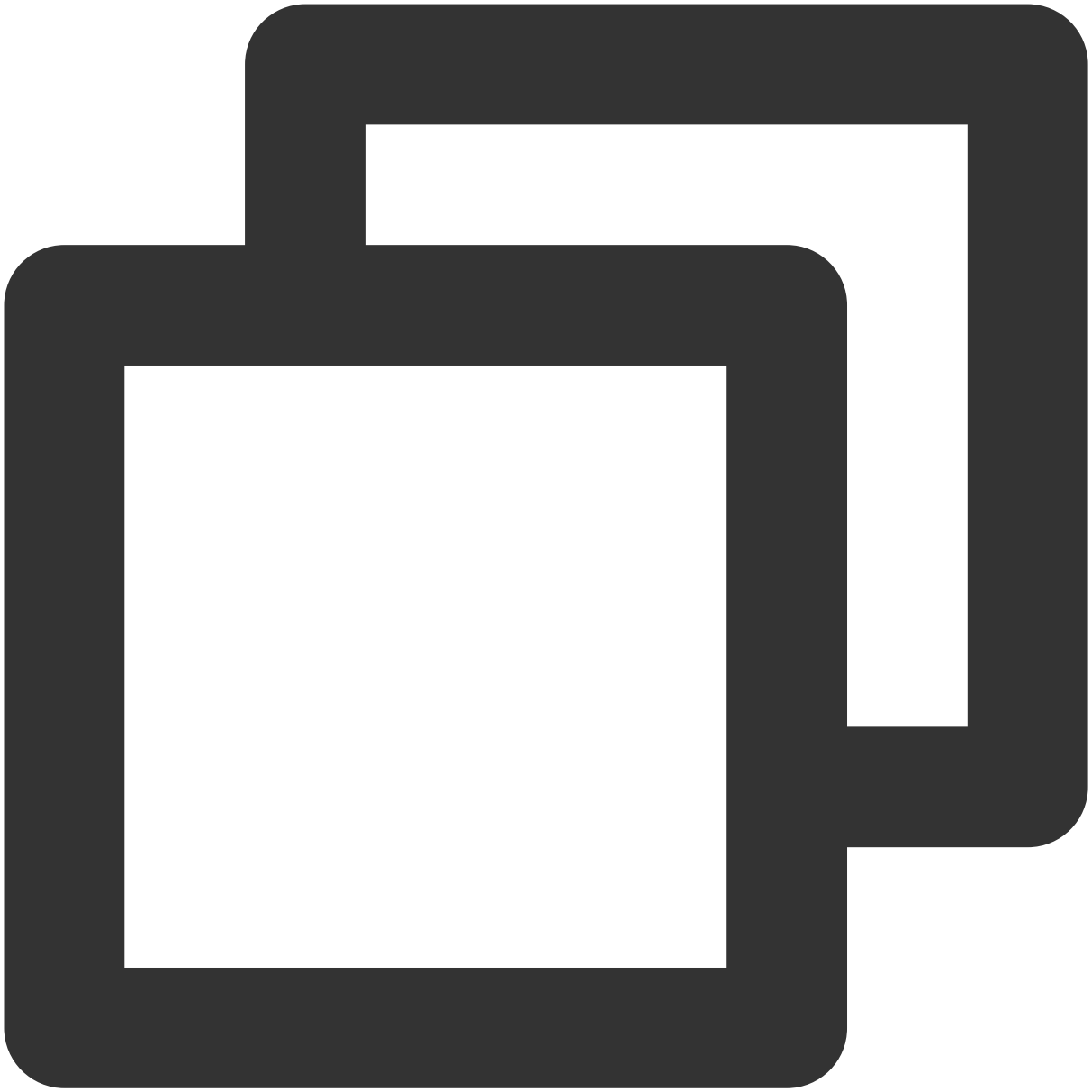
```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = None              # "region" does not need to be specified if you initiali
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

endpoint = 'file.mycloud.com' # Replace it with your default CDN acceleration domai
config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)
```

Initializing with a CDN custom domain

If you use a CDN custom domain to access COS, the SDK will directly access **CDN** using the **user domain** configured (neither `bucket` nor `region` will appear in the domain name) and then access COS via CDN origin server.

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

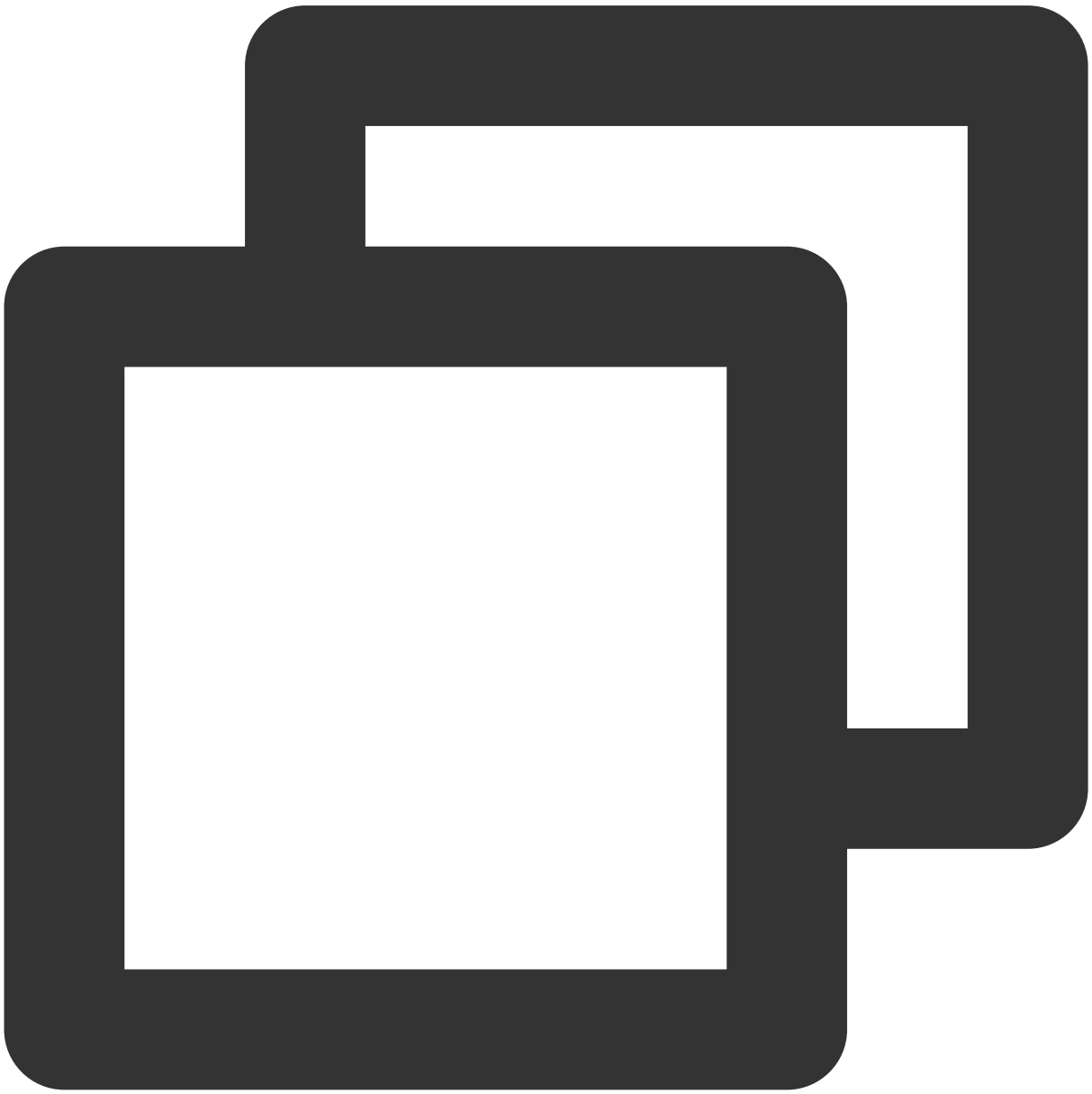
# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = None               # "region" does not need to be specified if you initiali
token = None                # Token is required for temporary keys but not permanent
scheme = 'https'            # Specify whether to use HTTP or HTTPS protocol to acces

domain = 'user-define.example-cdn.com' # Your CDN custom domain. You need to enable
config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)
```

Creating a bucket



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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

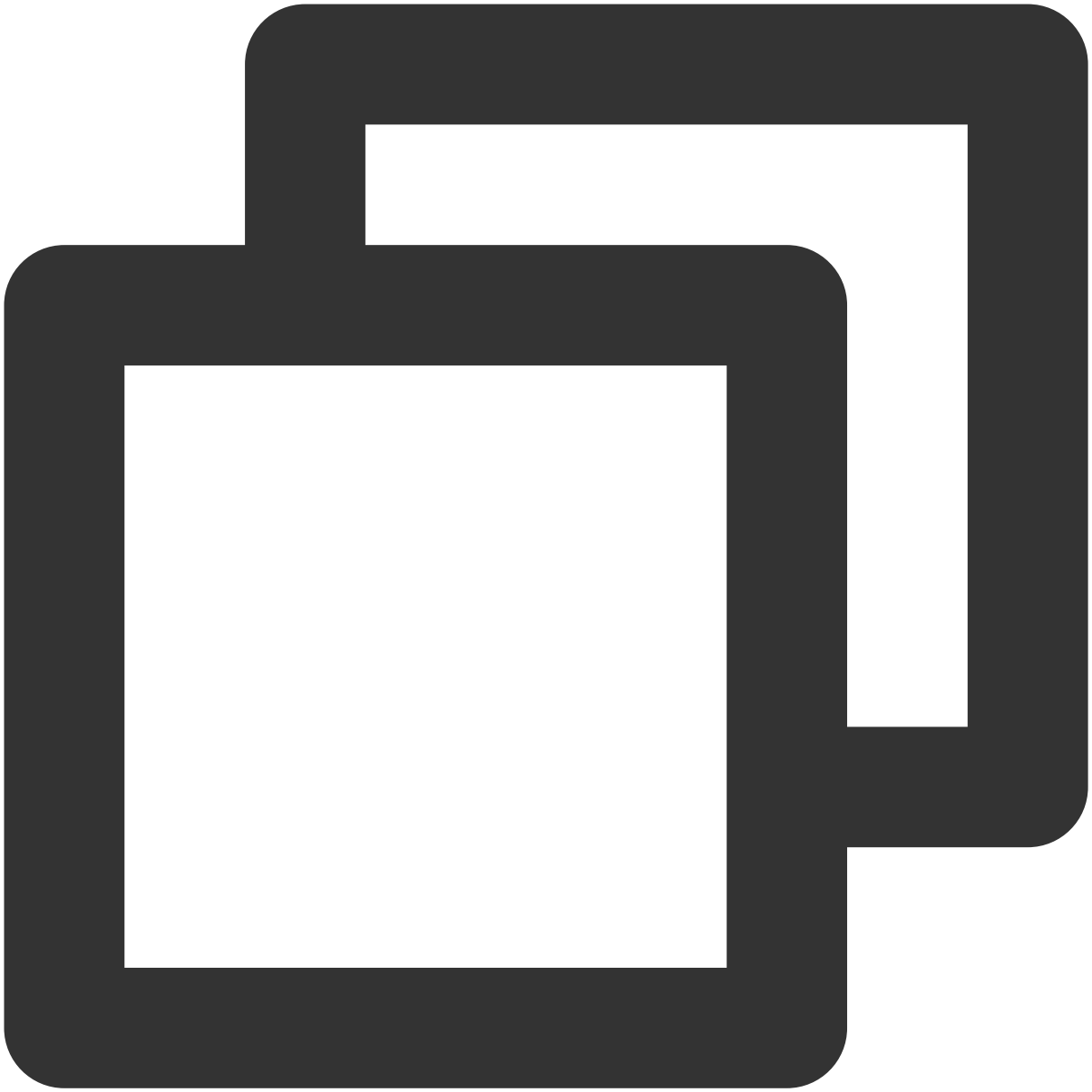
# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)

response = client.create_bucket(
    Bucket='examplebucket-1250000000'
)
```

Querying the bucket list

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)

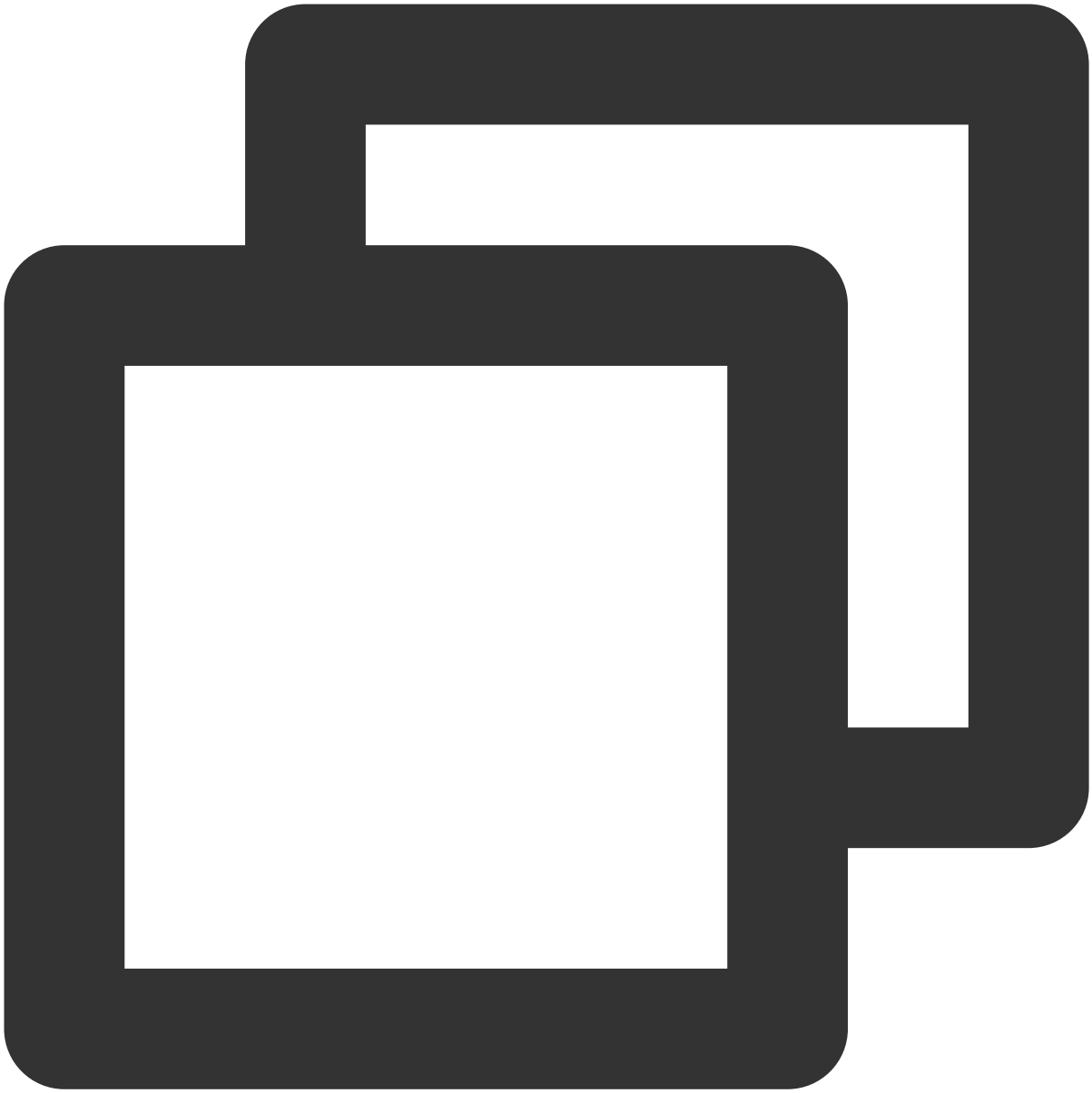
response = client.list_buckets(
)
```

Uploading an object

Note

Simple upload cannot be used to upload files larger than 5 GB. You can use the advanced upload API to upload large files. For more information about the related parameters, see Object Operations.

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)

#### Upload a file stream with simple upload (which cannot be used to upload files
# It is strongly recommended to open the file in binary mode; otherwise, an error m
with open('picture.jpg', 'rb') as fp:
    response = client.put_object(
        Bucket='examplebucket-1250000000',
        Body=fp,
        Key='picture.jpg',
        StorageClass='STANDARD',
        EnableMD5=False
    )
print(response['ETag'])

#### Upload a byte stream with simple upload
response = client.put_object(
    Bucket='examplebucket-1250000000',
    Body=b'bytes',
    Key='picture.jpg',
    EnableMD5=False
)
print(response['ETag'])


#### Simple chunk upload
import requests
stream = requests.get('https://cloud.tencent.com/document/product/436/7778')

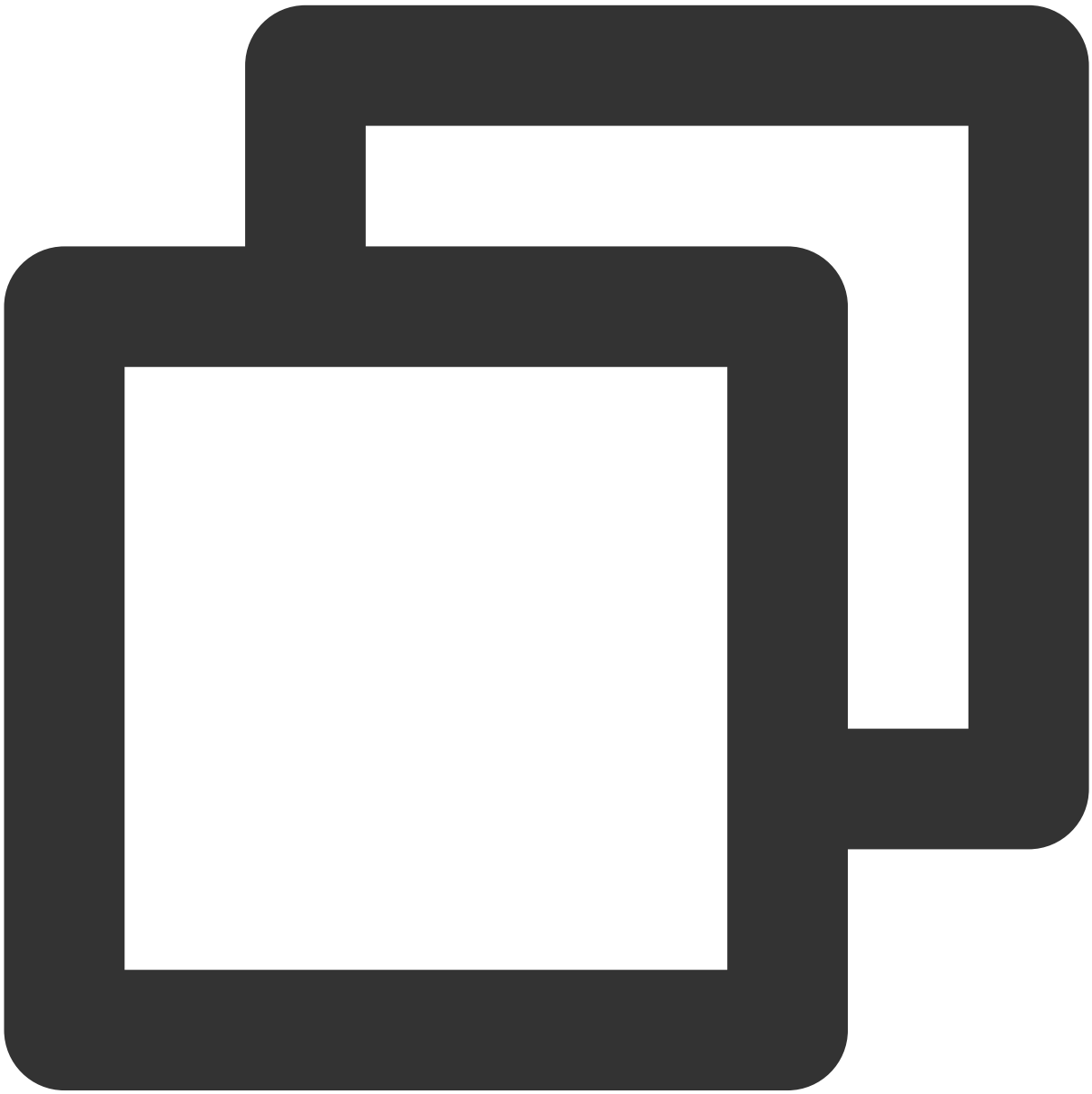
# Online streams will be transferred to COS in the Transfer-Encoding:chunked manner
response = client.put_object(
    Bucket='examplebucket-1250000000',
    Body=stream,
    Key='picture.jpg'
)
print(response['ETag'])

#### Advanced upload API (recommended)
# This API can automatically select between simple upload and multipart upload base
response = client.upload_file(
    Bucket='examplebucket-1250000000',
```

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```
    LocalFilePath='local.txt',
    Key='picture.jpg',
    PartSize=1,
    MAXThread=10,
    EnableMD5=False
)
print(response['ETag'])
```

Querying objects



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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

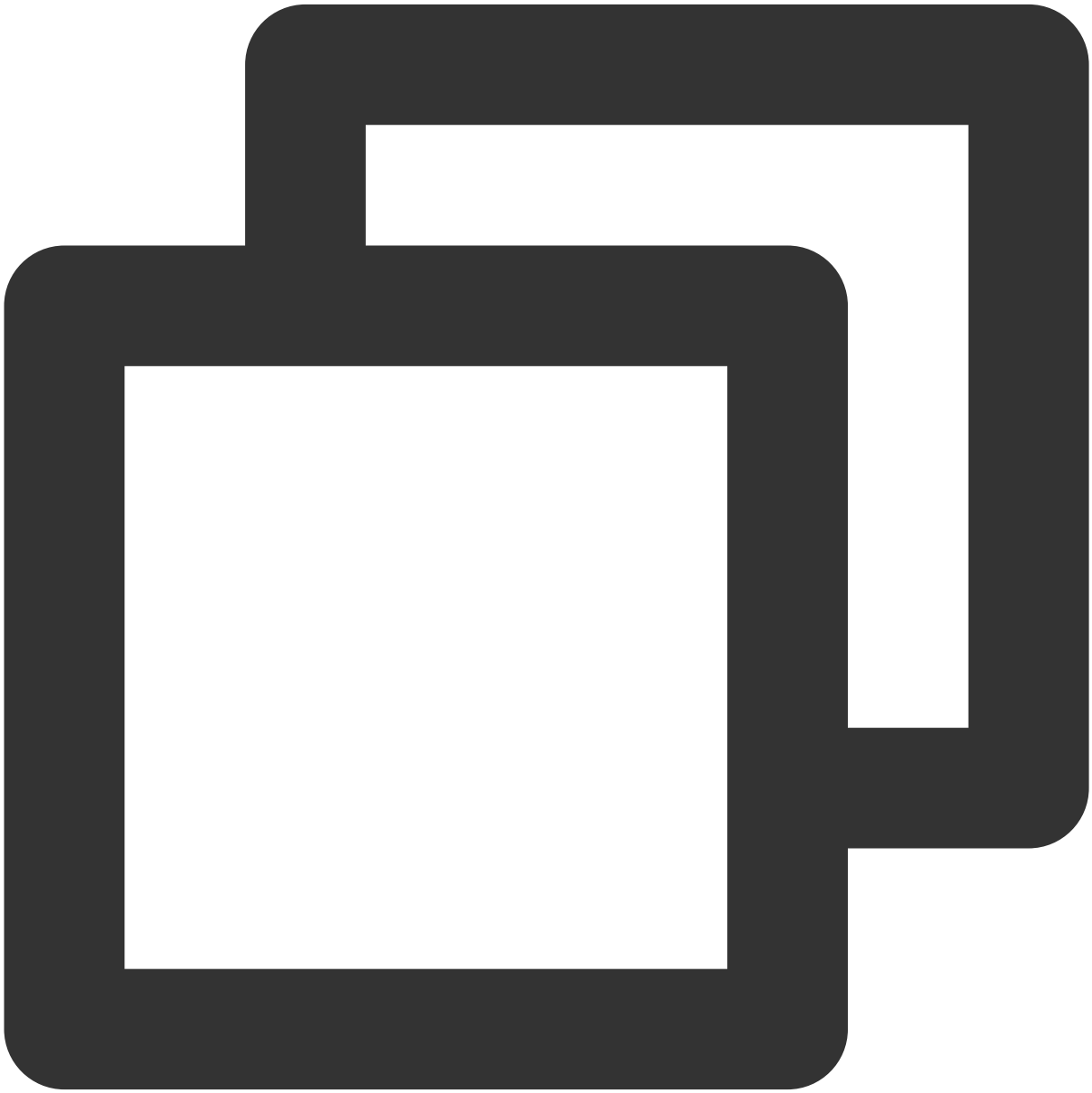
# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)

response = client.list_objects(
    Bucket='examplebucket-1250000000',
    Prefix='folder1'
)
```

A single call to the `list_objects` API can query up to 1,000 objects. If you want to query all objects, you need to call it repeatedly.

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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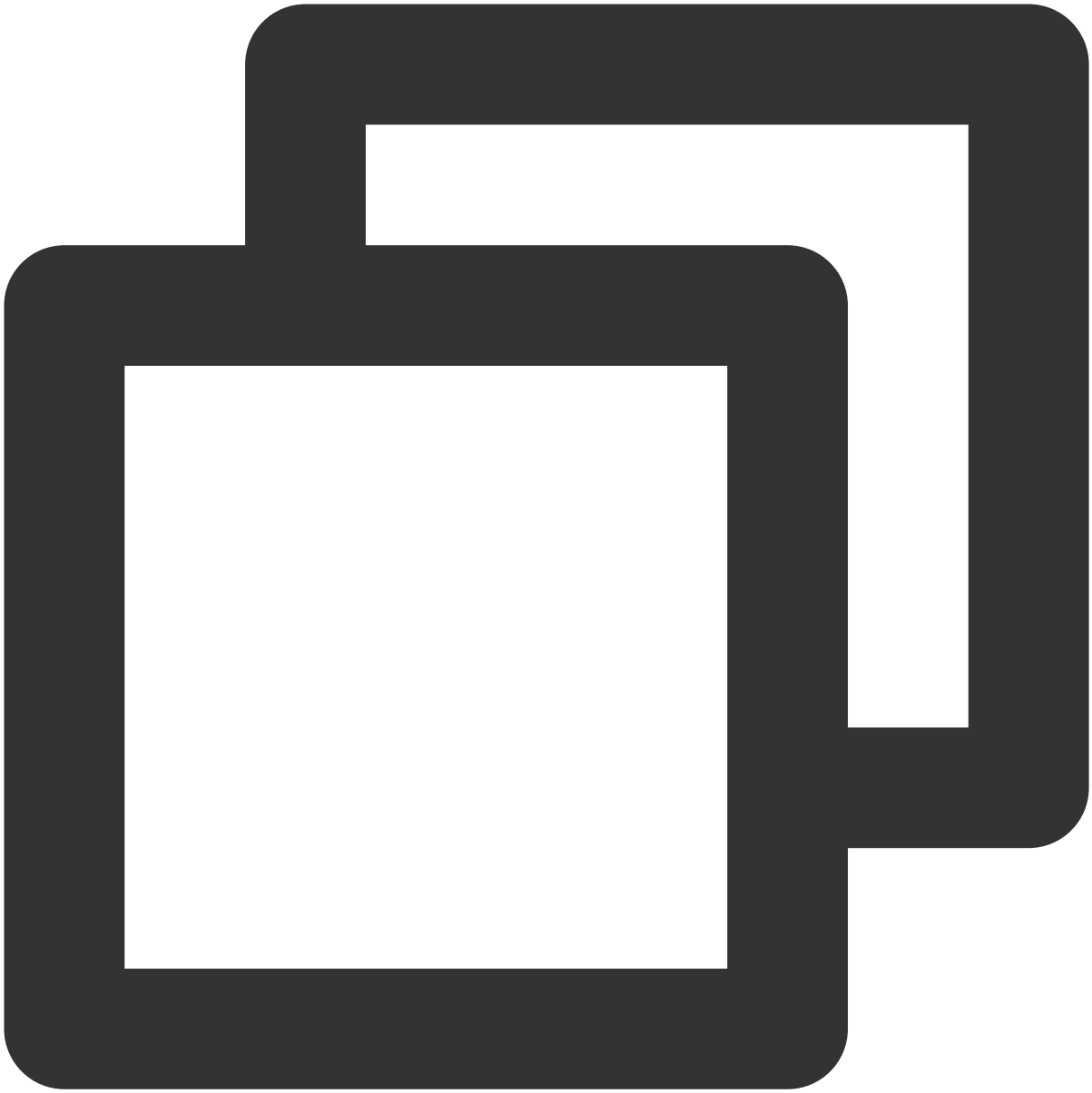
```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)

marker = ""
while True:
    response = client.list_objects(
        Bucket='examplebucket-1250000000',
        Prefix='folder1',
        Marker=marker
    )
    print(response['Contents'])
    if response['IsTruncated'] == 'false':
        break
    marker = response['NextMarker']
```

Downloading an object

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)

#### Download an object to the local file system
response = client.get_object(
    Bucket='examplebucket-1250000000',
    Key='picture.jpg',
)
response['Body'].get_stream_to_file('output.txt')

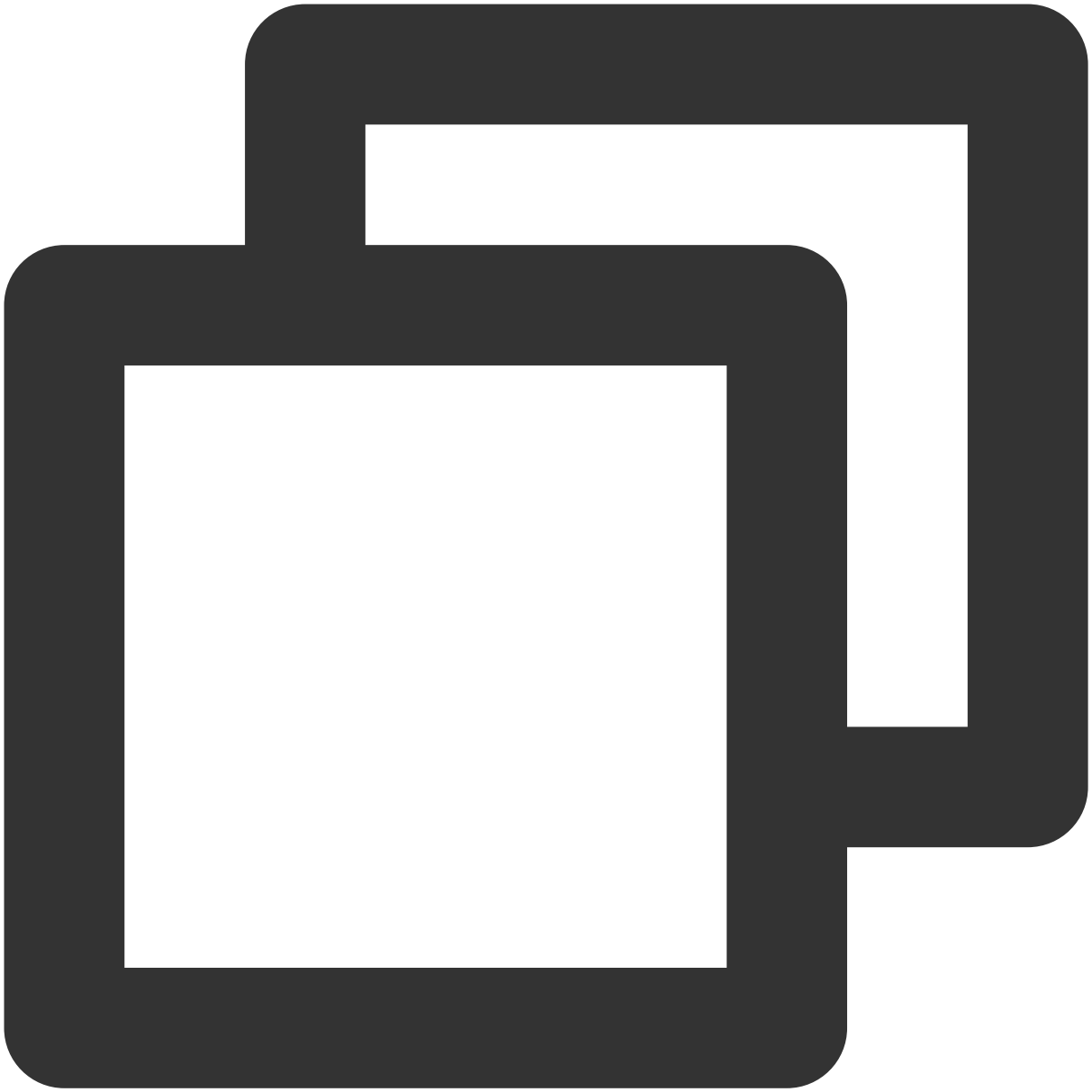
#### Download a file stream
response = client.get_object(
    Bucket='examplebucket-1250000000',
    Key='picture.jpg',
)
fp = response['Body'].get_raw_stream()
print(fp.read(2))

#### Set the response HTTP headers
response = client.get_object(
    Bucket='examplebucket-1250000000',
    Key='picture.jpg',
    ResponseContentType='text/html; charset=utf-8'
)
print(response['Content-Type'])
fp = response['Body'].get_raw_stream()
print(fp.read(2))

#### Specify the download range
response = client.get_object(
    Bucket='examplebucket-1250000000',
    Key='picture.jpg',
    Range='bytes=0-10'
)
fp = response['Body'].get_raw_stream()
print(fp.read())
```

Deleting an object

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```
# -*- coding=utf-8
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
import sys
import logging

# In most cases, set the log level to INFO. If you need to debug, you can set it to
logging.basicConfig(level=logging.INFO, stream=sys.stdout)

# 1. Set user attributes such as secret_id, secret_key, and region. Appid has been
secret_id = 'SecretId'     # Replace it with the actual SecretId, which can be view
```

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```
secret_key = 'SecretKey'     # Replace it with the actual SecretKey, which can be v
region = 'ap-beijing'      # Replace it with the actual region, which can be viewed
                           # For the list of regions supported by COS, see https://
token = None               # Token is required for temporary keys but not permanent
scheme = 'https'           # Specify whether to use HTTP or HTTPS protocol to acces

config = CosConfig(Region=region, SecretId=secret_id, SecretKey=secret_key, Token=t
client = CosS3Client(config)

# Delete an object
## deleteObject
response = client.delete_object(
    Bucket='examplebucket-1250000000',
    Key='exampleobject'
)

# Delete multiple objects
## deleteObjects
response = client.delete_objects(
    Bucket='examplebucket-1250000000',
    Delete={
        'Object': [
            {
                'Key': 'exampleobject1',
            },
            {
                'Key': 'exampleobject2',
            },
        ],
        'Quiet': 'true'|'false'
    }
)
```

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Image Processing
Persistent Image Processing

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples related to persistent image processing.

API	Description
Persistent image processing	Processes an image during upload, or processes an image stored in COS and saves the processing result to COS. Images within 32 MB can be processed.

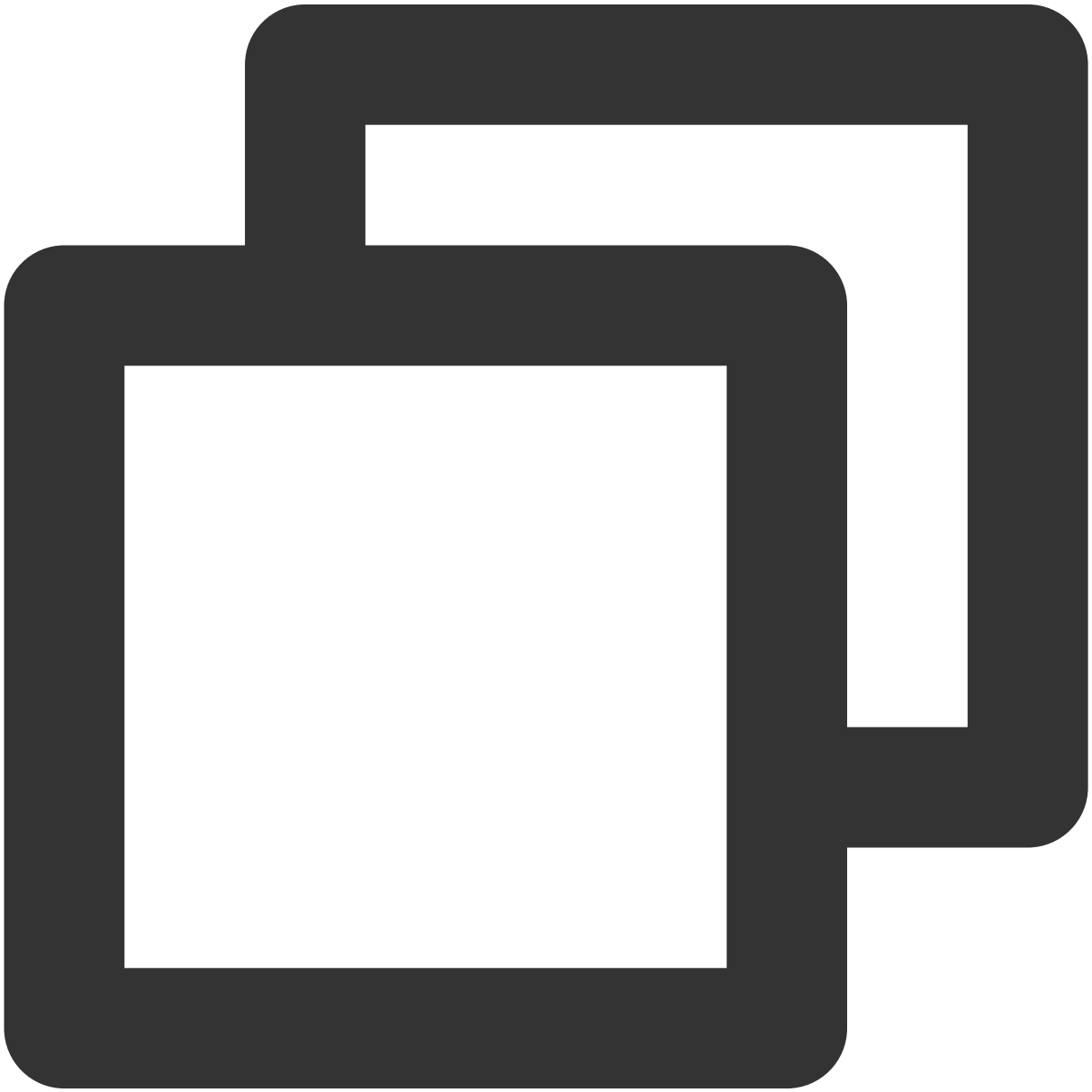
Processing upon Upload

Feature description

CI allows you to process images during upload. To enable this, add `Pic-Operations` to the request header and set relevant parameters. You can also save the input images and processing results to COS.

Method prototype

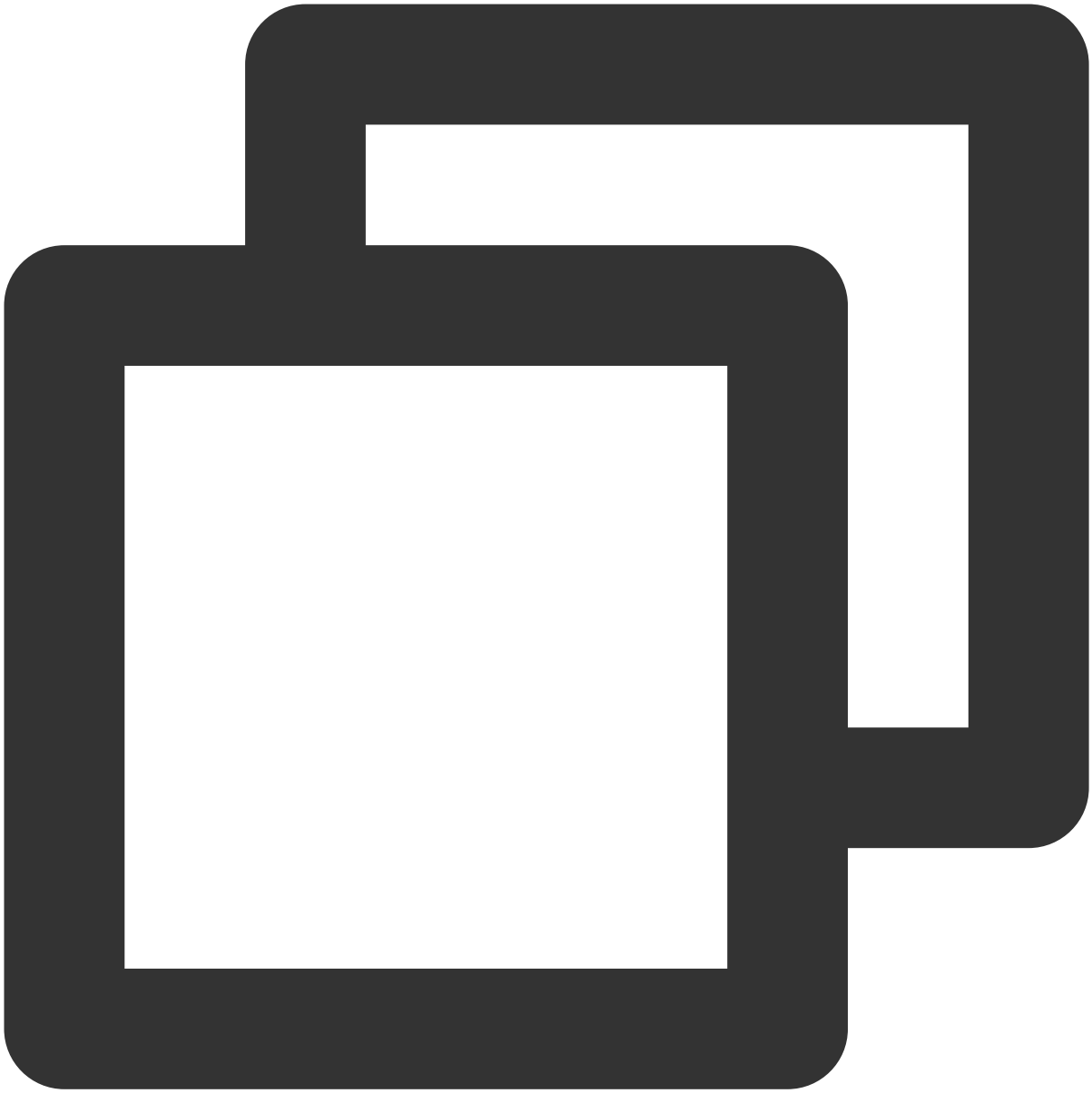
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```
ci_put_object(self, Bucket, Body, Key, EnableMD5=False, **kwargs)
```

Sample request

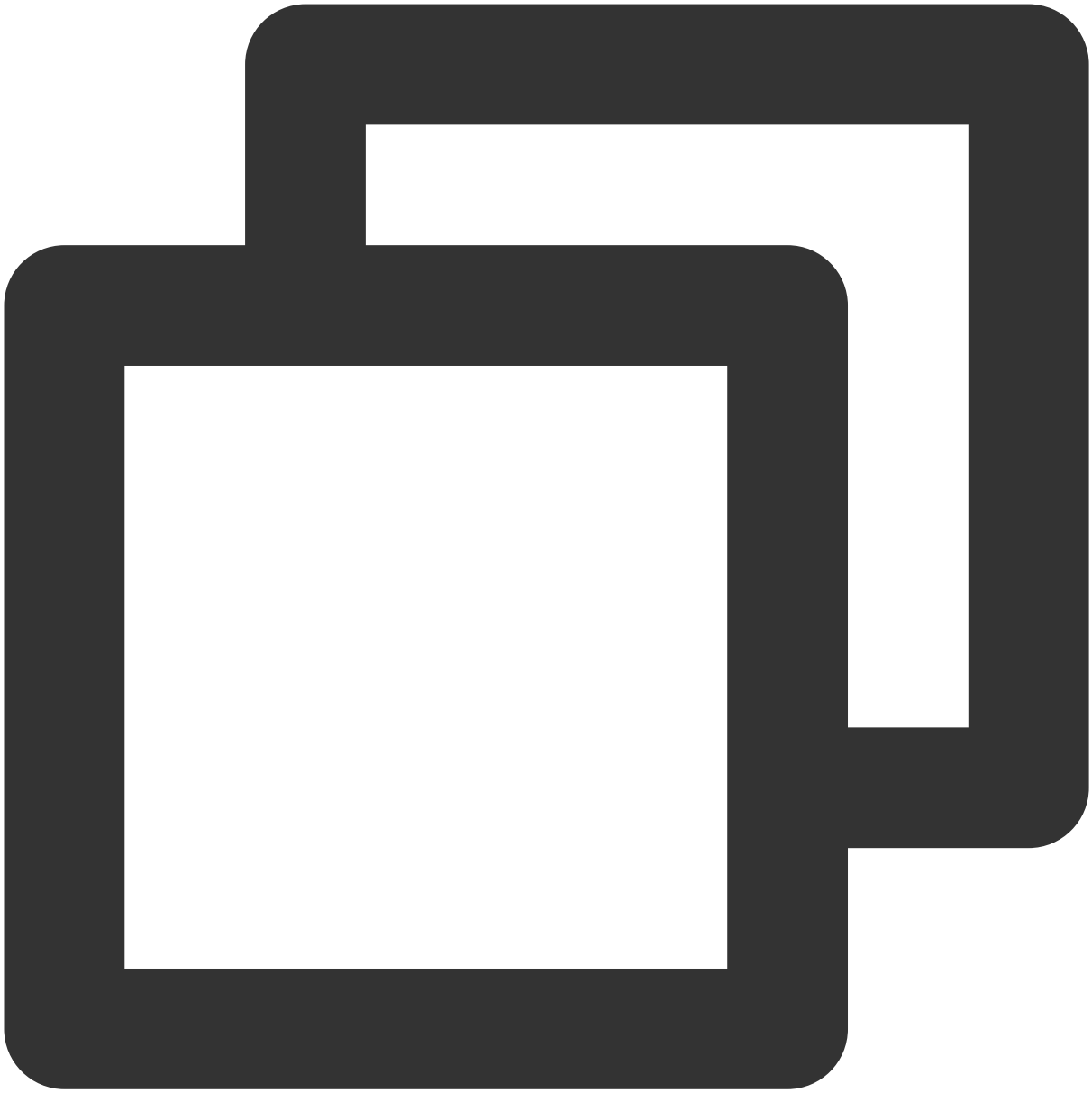
©2013-2022 Tencent Cloud. All rights reserved.



```
with open('local.jpg', 'rb') as fp:
    response, data = client.ci_put_object(
        Bucket='examplebucket-1250000000',
        Body=fp,
        Key=ci_file_name,
        # pic operation json struct
        PicOperations='{"is_pic_info":1,"rules":[{"fileid":"format.png","rule":"ima
```

Sample request with all parameters

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```
response = client.ci_put_object(
    Bucket='examplebucket-1250000000',
    Body=b'bytes'|file,
    Key='exampleobject',
    EnableMD5=False|True,
    ACL='private'|'public-read', # Please note that the maximum number (1000) of AC
    GrantFullControl='string',
    GrantRead='string',
    StorageClass='STANDARD'|'STANDARD_IA'|'ARCHIVE',
    Expires='string',
    CacheControl='string',
```

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```
    ContentType='string',
    ContentDisposition='string',
    ContentEncoding='string',
    ContentLanguage='string',
    ContentLength='123',
    ContentMD5='string',
    Metadata={
        'x-cos-meta-key1': 'value1',
        'x-cos-meta-key2': 'value2'
    },
    TrafficLimit='1048576'
    PicOperations='{"is_pic_info":1,"rules":[{"fileid":"format.png","rule":"imageVi
)
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID`.	String	Yes
Body	Content of the uploaded object, which can be a file stream or a byte stream.	file/bytes	Yes
Key	Object key, which uniquely identifies an object in a bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	String	Yes
PicOperations	CI image processing parameter. For more information, see Persistent Image Processing.	String	Yes
EnableMD5	Whether the SDK needs to calculate the `Content-MD5` checksum. It is disabled by default. The upload will take longer if it is enabled.	Bool	No
ACL	Sets the object ACL, such as `private` or `public-read`.	String	No
GrantFullControl	Grants full permission in the format of `id="OwnerUin"`.	String	No
GrantRead	Grants read permission in the format of `id="OwnerUin"`.	String	No
StorageClass	Sets the storage class of the object, such as `STANDARD` (default), `STANDARD_IA`, and `ARCHIVE`. For more information, see Storage Class Overview.	String	No

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Expires	Sets `Expires` .	String	No
CacheControl	Cache policy. Sets `Cache-Control` .	String	No
ContentType	Content type. Sets `Content-Type` .	String	No
ContentDisposition	Object name. Sets `Content-Disposition` .	String	No
ContentEncoding	Encoding format. Sets `Content-Encoding` .	String	No
ContentLanguage	Language type. Sets `Content-Language` .	String	No
ContentLength	Sets the length of the request content.	String	No
ContentMD5	Sets the MD5 checksum of the uploaded object for verification.	String	No
Metadata	User-defined object metadata. It must start with `x-cos-meta` ; otherwise, it will be ignored.	Dict	No
TrafficLimit	Bandwidth limit for a single request in bit/s. Value range: 819200-838860800, i.e., 100 KB/s-100 MB/s.	String	No

`PicOperations` is a JSON string. Its parameters are as follows:

Parameter	Description	Type	Required
is_pic_info	Whether to return the input image information. Valid values: `0` (no), `1` (yes). Default value: `0` .	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:

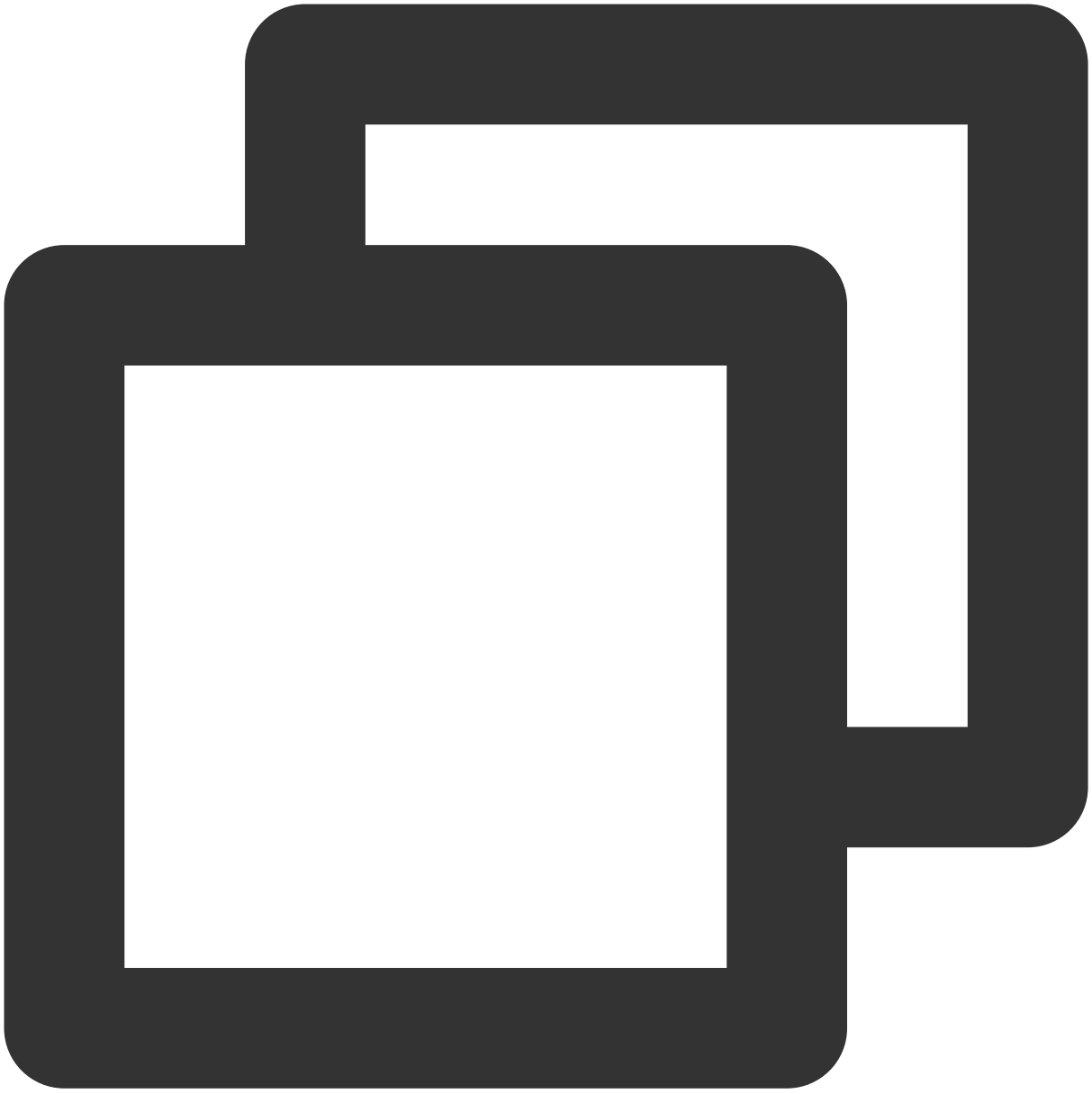
Parameter	Description	Type	Required
bucket	Name of the destination bucket to store the results in the format of `BucketName-APPID` . If this parameter is not specified, the results will be stored in the current bucket by default.	String	No
fileid	Path of the processing result file. If the path starts with `/` , the result file will be stored in the specified folder; otherwise, it will be stored in the same directory as the input image file.	String	Yes
rule	Processing parameters. For more information, see CI's image	String	Yes

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	processing API. To process an image by 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 description

The response contains the original image and processing information in dict format:



```
{
    'OriginalInfo': {
```

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```
            'Key': 'local.jpg',
            'Location': 'examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/local.j
            'ETag': '"aff1b996bcc63a0f0259df0de2fa989f38c5ce7e"',
            'ImageInfo': {
                'Format': 'JPEG',
                'Width': '300',
                'Height': '168',
                'Quality': '74',
                'Ave': '0x1a3451',
                'Orientation': '0'
                'FrameCount': '1'
            }
        },
        'ProcessResults': {
            'Object': {
                'Key': 'format.png',
                'Location': 'examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/for
                'Format': 'png',
                'Width': '300',
                'Height': '168',
                'Size': '77063',
                'Quality': '74',
                'ETag': '"a07dc5bcfa238e7d23d2d5884da4ac328aaaa9c6"'
                'FrameCount': '1'
            }
        }
    }
```

Parameters in the response body are as follows:

Parameter	Type	Description
UploadResult	Container	Input image information

Content of `UploadResult`:

Parameter	Type	Description
OriginalInfo	Container	Input image information
ProcessResults	Container	Image processing result

Content of `OriginalInfo`:

Node Name	Type	Description
Key	String	Input image name

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Location	String	Image path
ImageInfo	Container	Input image information
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`:

Node Name	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
FrameCount	Int	Number of frames of the image, which is 1 for static images by default.

Content of `ProcessResults`:

Node Name	Type	Description
Object	Container	Processing result of each image

Content of `Object`:

Node Name	Type	Description
Key	String	File name
Location	String	Image path
Format	String	Image format
Width	Int	Image width
Height	Int	Image height
Size	Int	Image size

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Quality	Int	Image quality
ETag	String	`ETag` of the processing result image
FrameCount	Int	Number of frames of the image, which is 1 for static images by default.

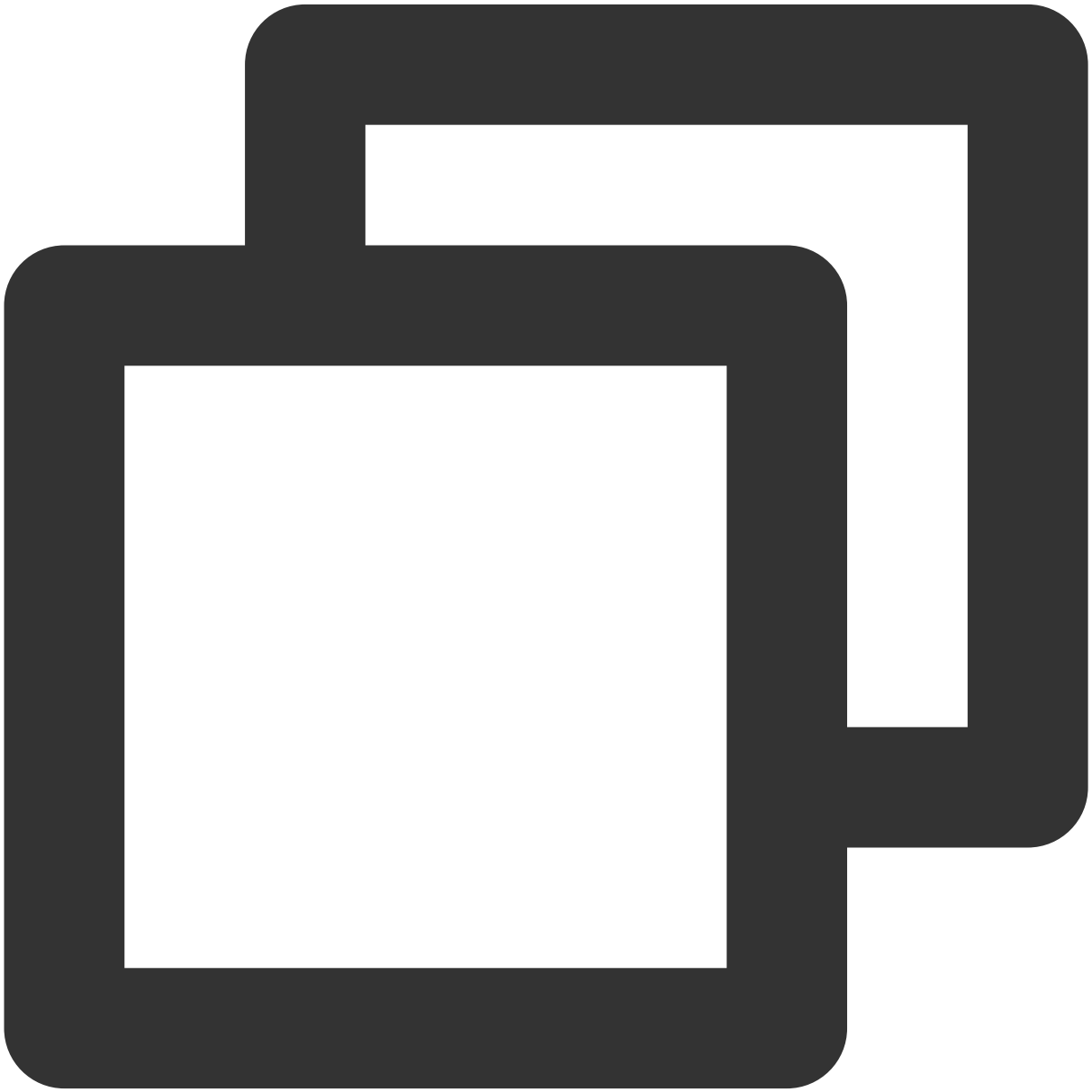
Processing In-Cloud Data

Feature description

The persistent image processing API can process an in-cloud image and save the processing result to COS.

Method prototype

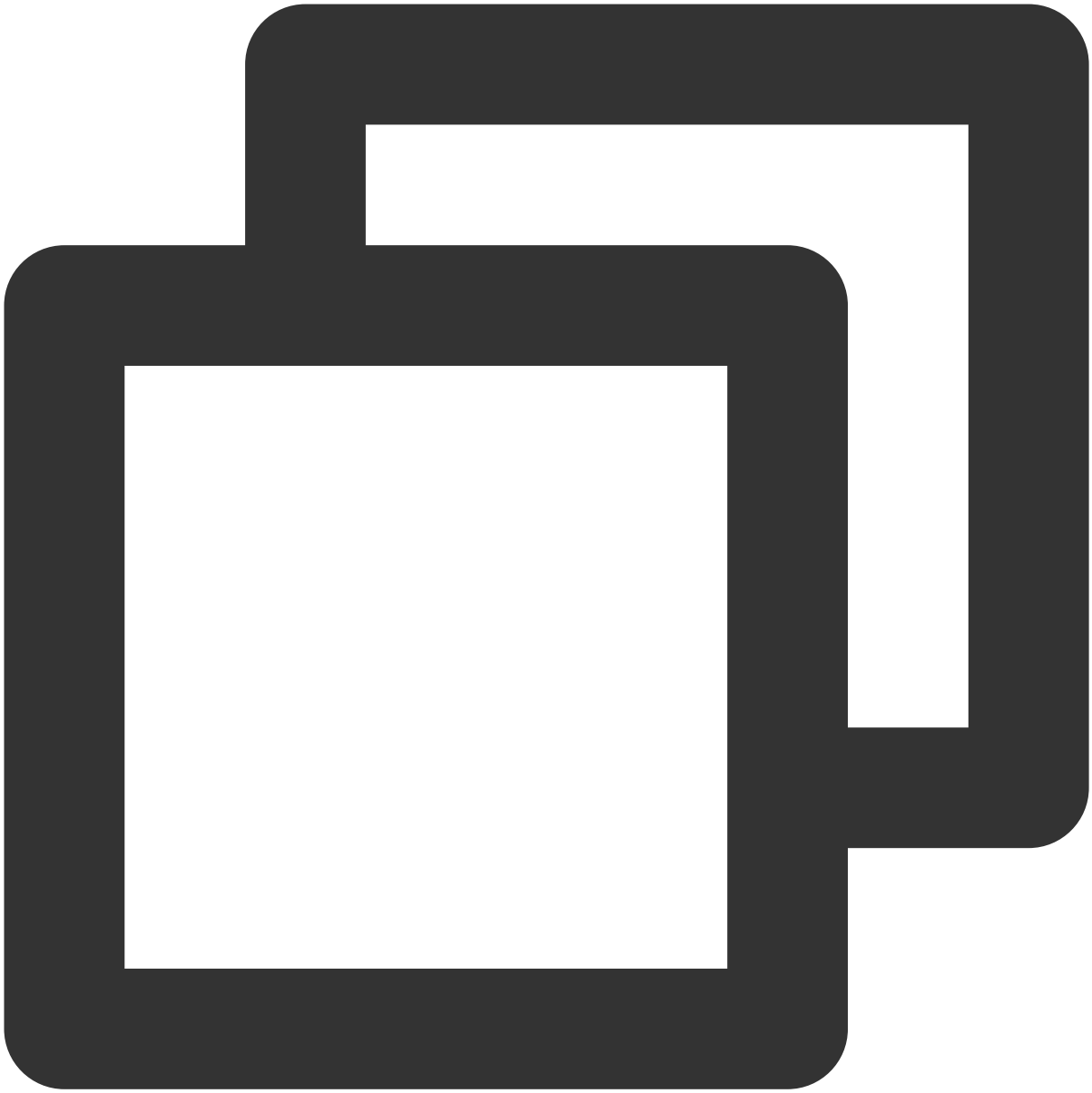
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```
ci_image_process(self, Bucket, Key, **kwargs)
```

Sample request

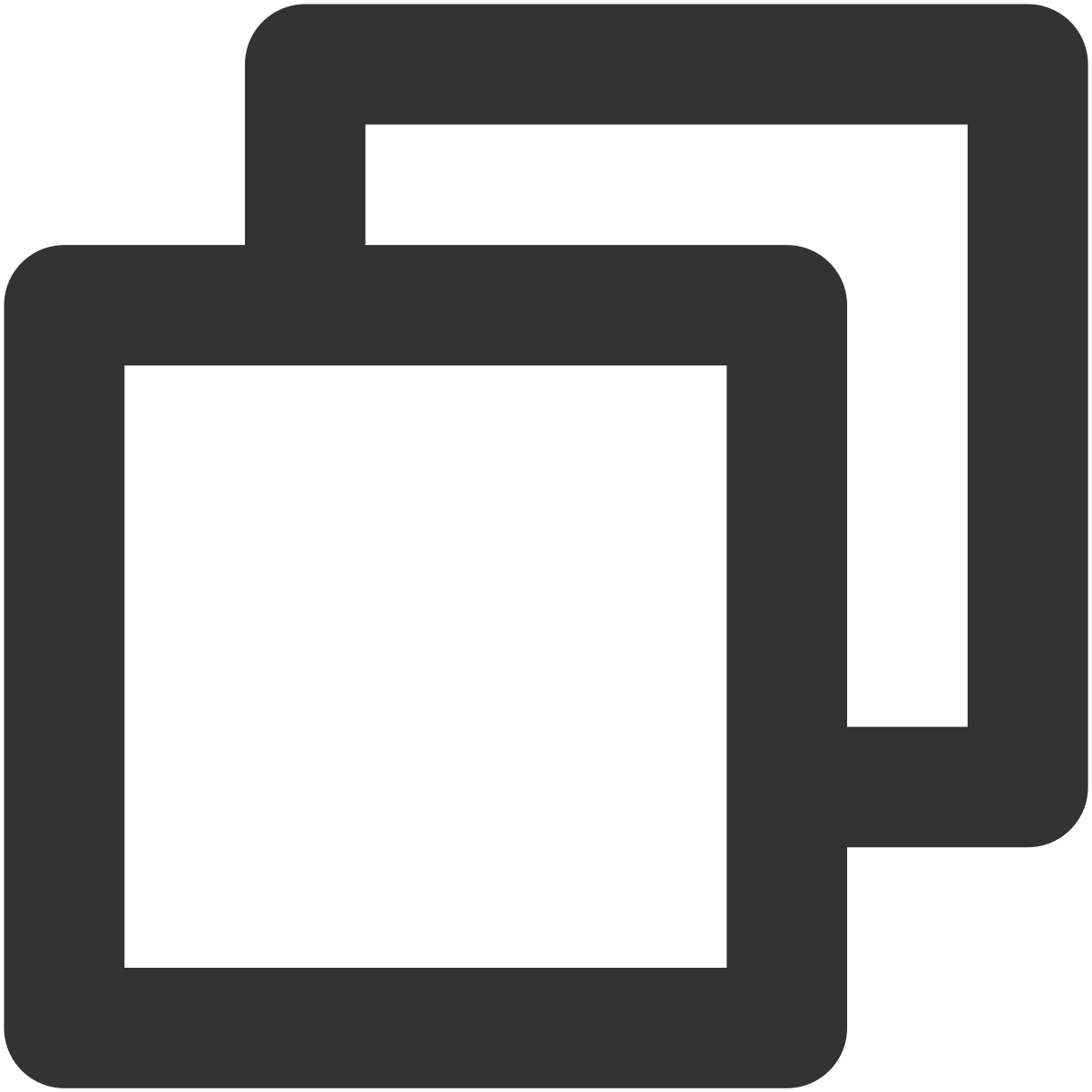
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```
response, data = client.ci_image_process(
    Bucket='examplebucket-1250000000',
     Key=ci_file_name,
    # pic operation json struct
    PicOperations='{"is_pic_info":1,"rules":[{"fileid":"format.png","rule":"imageVi
```

Sample request with all parameters

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```
response, data = client.ci_image_process(
    Bucket='examplebucket-1250000000',
    Key=ci_file_name,
    # pic operation json struct
    PicOperations='{"is_pic_info":1,"rules":[{"fileid":"format.png","rule":"imageVi
```

Parameter description

Parameter	Description	Type	Required

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Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Key	Object key, which uniquely identifies an object in a bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg` , its key is `doc/pic.jpg` .	String	Yes
PicOperations	CI image processing parameters. For more information, see Persistent Image Processing.	String	Yes

`PicOperations` is a JSON string. Its parameters are as follows:

Parameter	Description	Type	Required
is_pic_info	Whether to return the input image information. Valid values: `0` (no), `1` (yes). Default value: `0` .	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

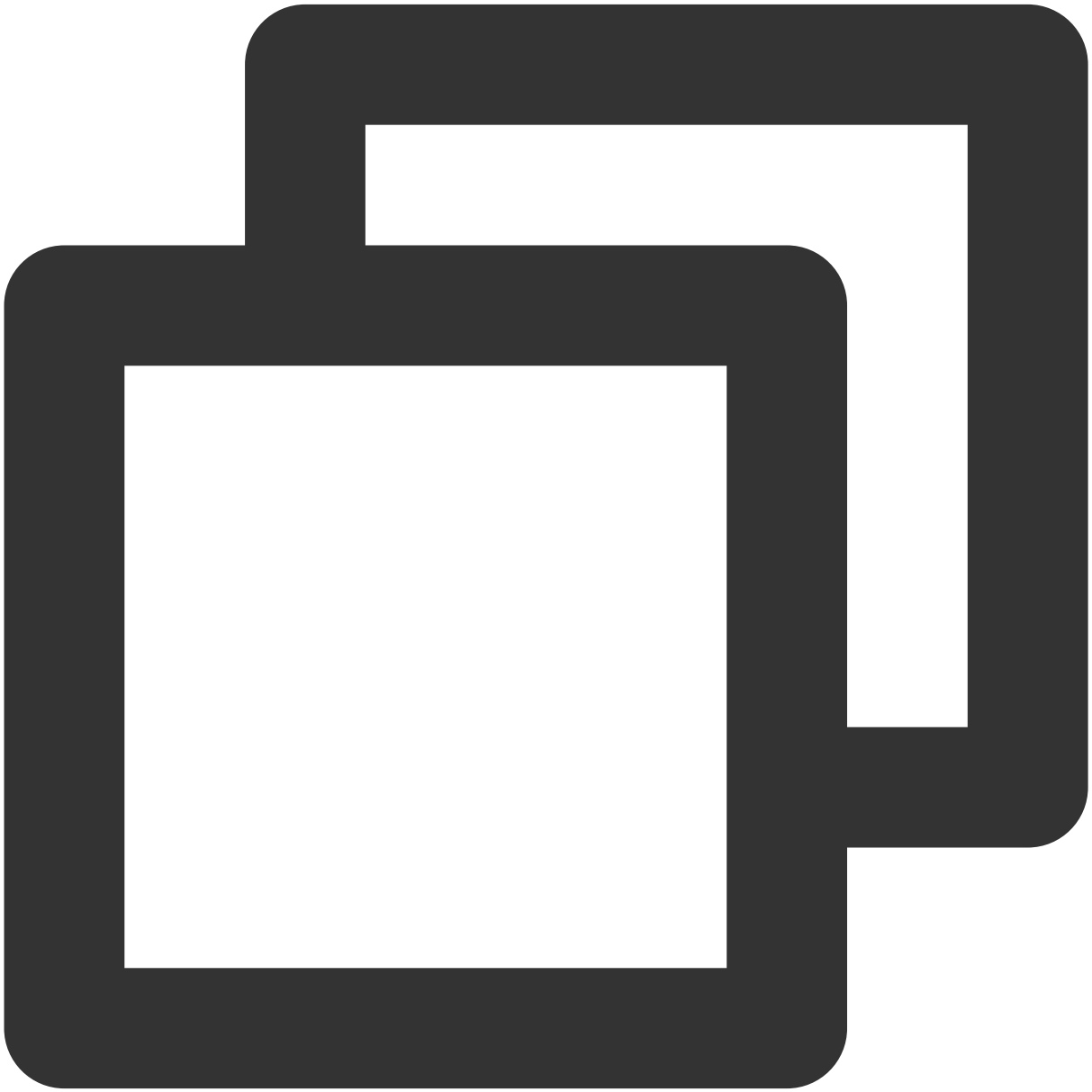
Parameters of `rules` (a JSON array) are as follows:

Parameter	Description	Type	Required
bucket	Name of the destination bucket to store the results in the format of `BucketName-APPID` . If this parameter is not specified, the results will be stored in the current bucket by default.	String	No
fileid	Path of the processing result file. If the path starts with `/` , the result file will be stored in the specified folder; otherwise, it will be stored in the same directory as the input image file.	String	Yes
rule	Processing parameters. For more information, see the image processing API. To process an image by 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

Response description

The response contains object metadata in dict format:

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```
{
    'OriginalInfo': {
        'Key': 'local.jpg',
        'Location': 'examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/local.j
        'ETag': '"aff1b996bcc63a0f0259df0de2fa989f38c5ce7e"',
        'ImageInfo': {
            'Format': 'JPEG',
            'Width': '300',
            'Height': '168',
            'Quality': '74',
            'Ave': '0x1a3451',
```

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```
            'Orientation': '0'
            'FrameCount': '1'
        }
    },
    'ProcessResults': {
        'Object': {
            'Key': 'format.png',
            'Location': 'examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/for
            'Format': 'png',
            'Width': '300',
            'Height': '168',
            'Size': '77063',
            'Quality': '74',
            'ETag': '"a07dc5bcfa238e7d23d2d5884da4ac328aaaa9c6"'
            'FrameCount': '1'
        }
    }
}
```

Parameters in the response body are as follows:

Parameter	Type	Description
UploadResult	Container	Input image information

Content of `UploadResult`:

Parameter	Type	Description
OriginalInfo	Container	Input image information
ProcessResults	Container	Image processing result

Content of `OriginalInfo`:

Node Name	Type	Description
Key	String	Input image name
Location	String	Image path
ImageInfo	Container	Input image information
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.

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Content of `ImageInfo` :

Node Name	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
FrameCount	Int	Number of frames of the image, which is 1 for static images by default.

Content of `ProcessResults` :

Node Name	Type	Description
Object	Container	Processing result of each image

Content of `Object` :

Node Name	Type	Description
Key	String	File name
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 processing result image
FrameCount	Int	Number of frames of the image, which is 1 for static images by default.

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Image Advanced Compression

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for image advanced compression.

API	Description
Image advanced compression	Compresses an image in a specified bucket.

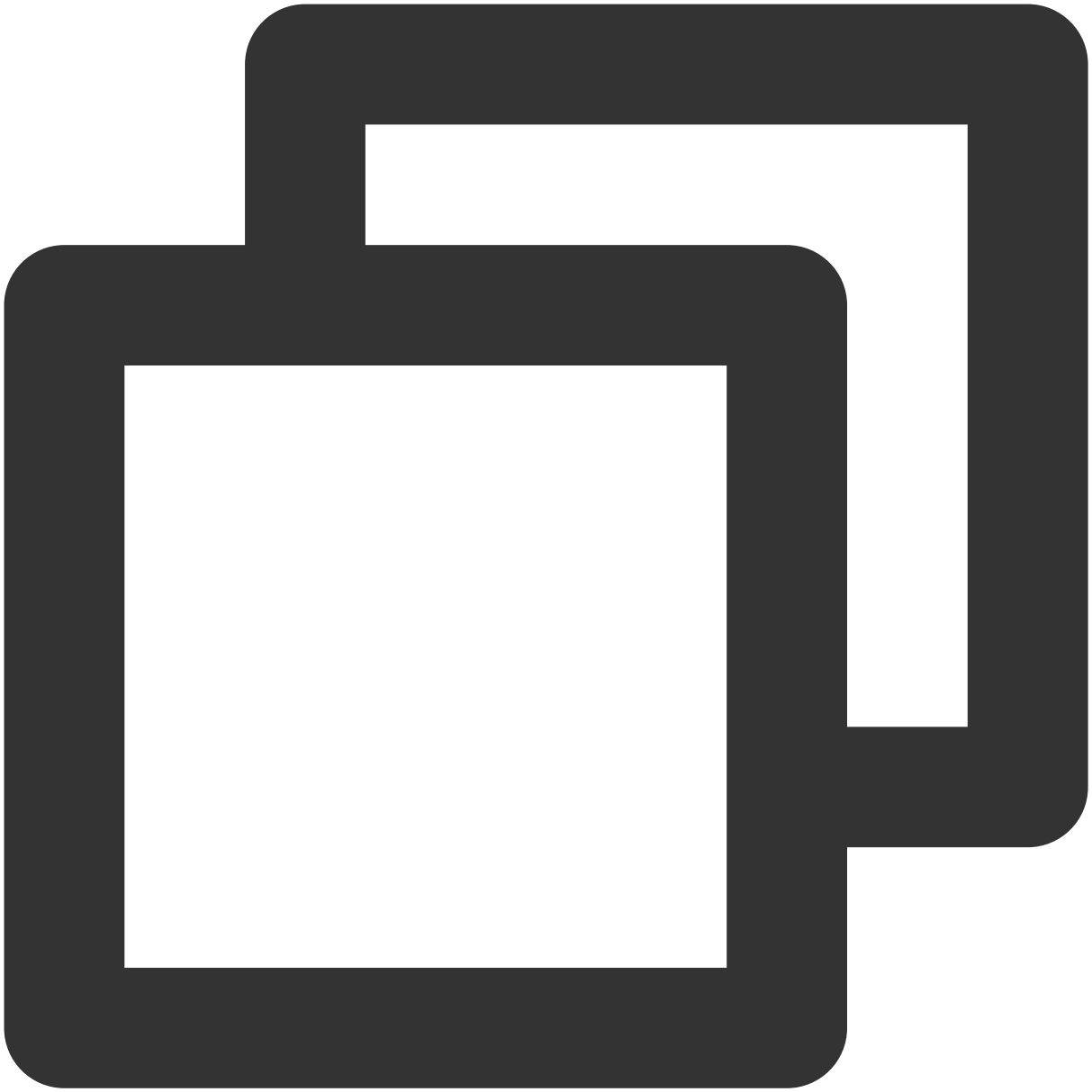
Image Advanced Compression

Feature description

CI uses the `imageMogr2` API to provide the image advanced compression feature.

Method prototype

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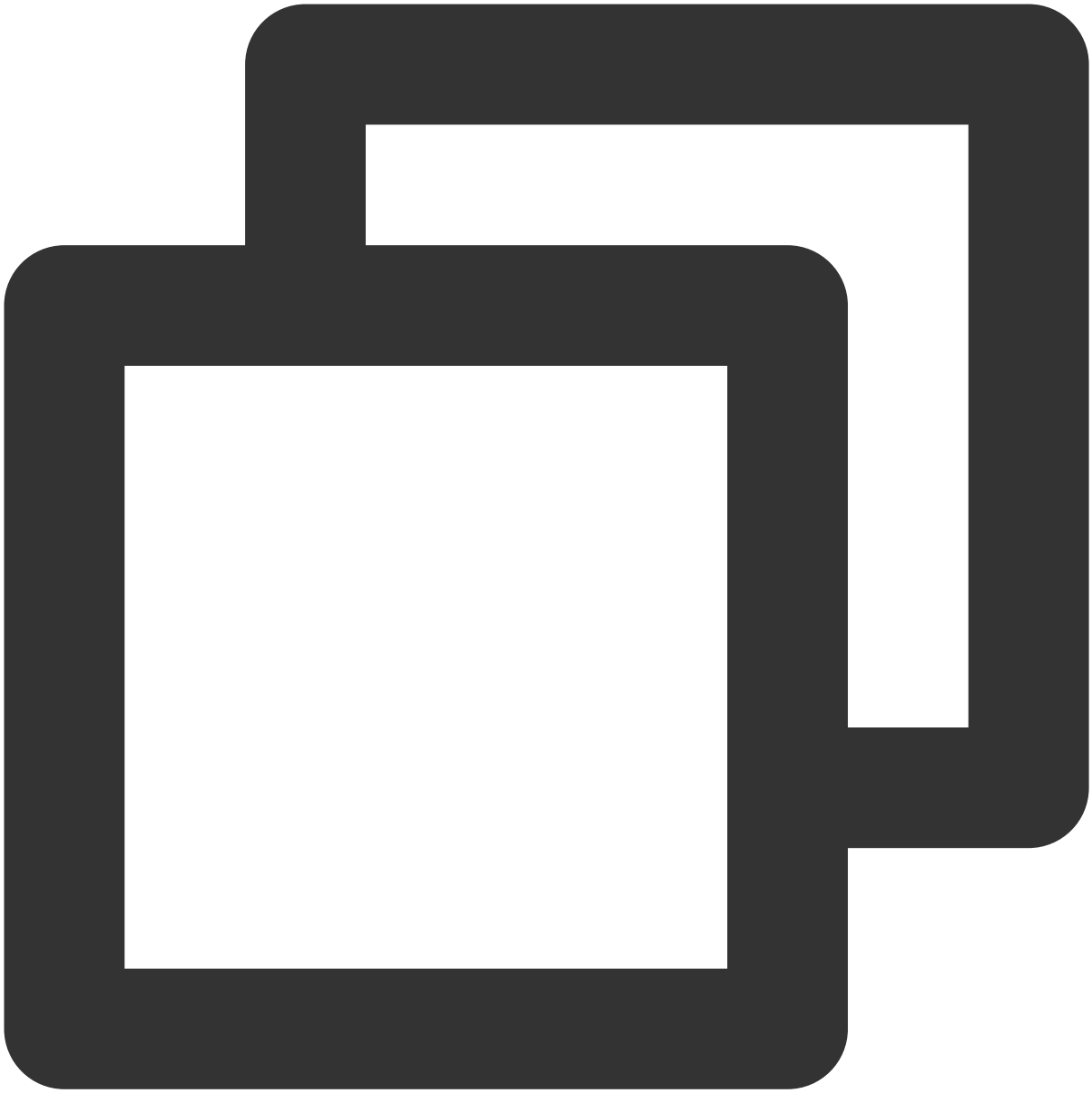


```
ci_download_compress_image(self, Bucket, Key, DestImagePath, CompressType, **kwargs
```

Sample request

[//]: # ".cssg-snippet-ci-download-compress-image"

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```
# TPG compression
response = client.ci_download_compress_image(
    Bucket='examplebucket-1250000000',
    Key='sample.png',
    DestImagePath='sample.tpg',
    CompressType='tpg'
)

# HEIF compression
response = client.ci_download_compress_image(
    Bucket='examplebucket-1250000000',
```

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```
    Key='sample.png',
    DestImagePath='sample.heif',
    CompressType='heif'
)
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
Key	Object key. It can contain up to 128 bytes of letters, digits, spaces, plus signs, minus signs, underscores, equal signs, dots, colons, and slashes.	String	Yes
DestImagePath	Local path to save the compressed image	String	Yes
CompressType	Compression format, which can be TPG or HEIF.	String	Yes

Response description

This API returns the response header.

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Blind Watermark

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.

API	Description
Blind watermarking	Adds blind watermark to or extracts blind watermark from local image and uploads it to bucket

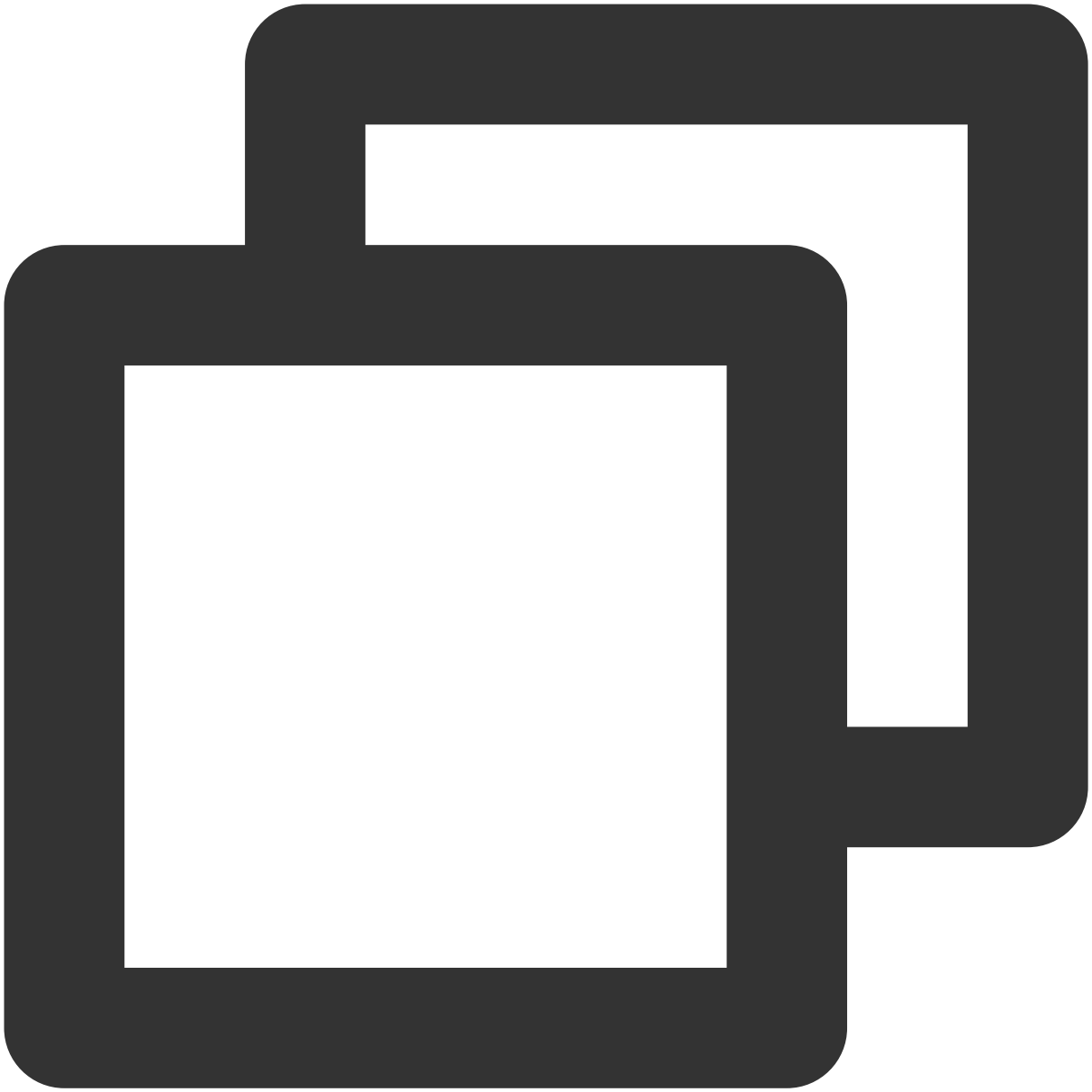
Blind Watermark

Feature description

Blind watermark is a new type of watermark based on CI.

Method prototype

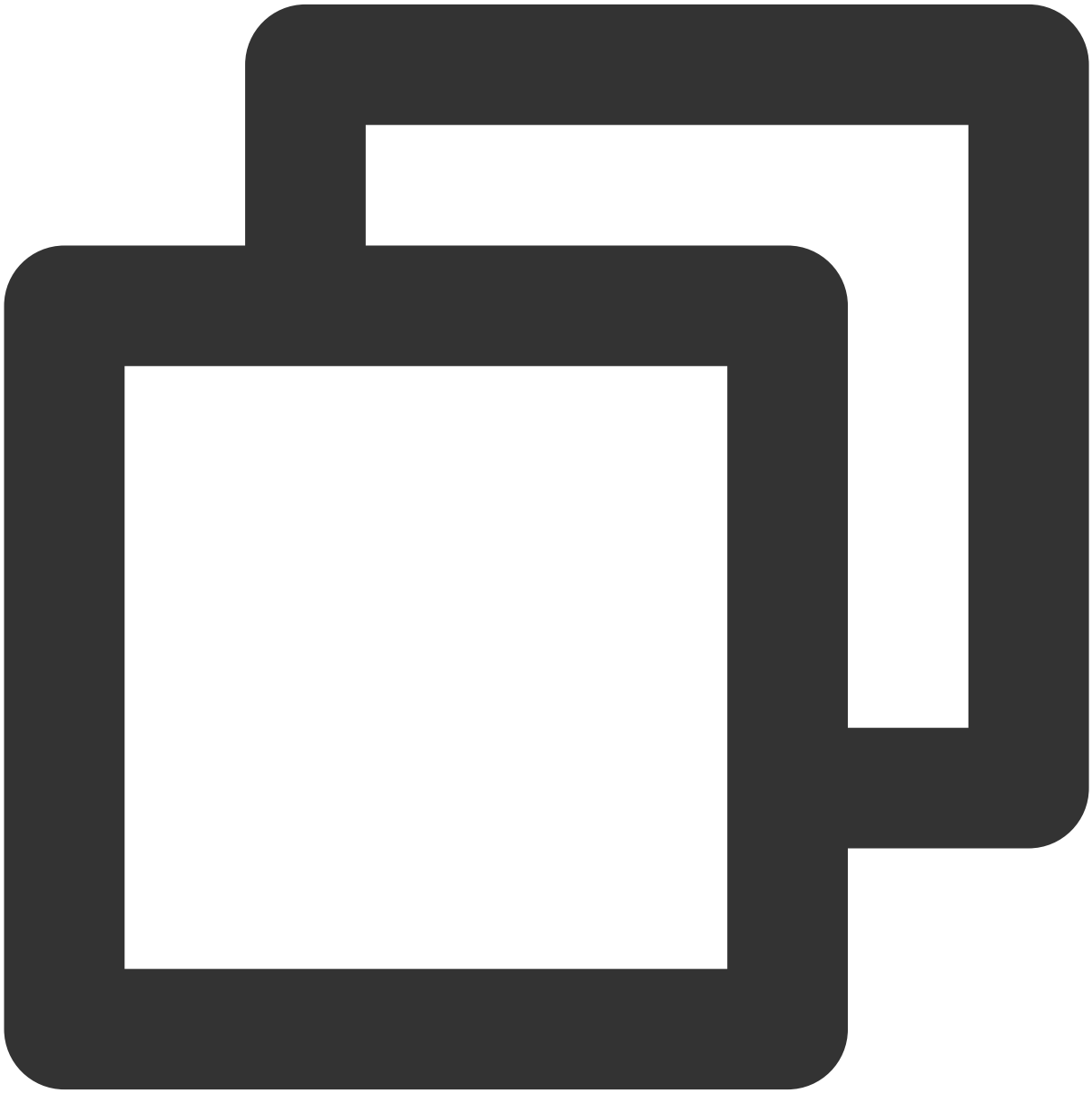
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```
def ci_put_object_from_local_file(self, Bucket, LocalFilePath, Key, EnableMD5=False
```

Sample request

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```
# Add a blind watermark
watermark_url = 'http://{bucket}.cos.{region}.myqcloud.com/watermark.png'.format(bu
watermark_url_base64 = bytes.decode(base64.b64encode(str.encode(watermark_url)))
print(watermark_url_base64)
response, data = client.ci_put_object_from_local_file(
    Bucket='examplebucket-1250000000',
    LocalFilePath='sample.png',
    Key="sample.png",
    # pic operation json struct
    PicOperations='{"is_pic_info":1,"rules":[{"fileid": "format.png","rule": "water
                watermark_url_base64 + '" }]}'
```

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```
)

# Extract a blind watermark
sample_url = 'http://{bucket}.cos.{region}.myqcloud.com/sample.png'.format(bucket='
sample_url_base64 = bytes.decode(base64.b64encode(str.encode(sample_url)))
response, data = client.ci_put_object_from_local_file(
    Bucket='examplebucket-1250000000',
    LocalFilePath='format.png',
    Key="format.png",
    # pic operation json struct
    PicOperations='{"is_pic_info":1,"rules":[{"fileid": "watermark.png","rule": "wa
                  sample_url_base64 + '" }]}'
)
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
LocalFilePath	Path of the local image to be processed	String	Yes
Key	Object key. It can contain up to 128 bytes of letters, digits, spaces, plus signs, minus signs, underscores, equal signs, dots, colons, and slashes.	String	Yes
EnableMD5	Enables MD5 check for uploaded objects	Bool	No

Response description

This API returns the response header and body.

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Media Processing
Media Information APIs

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for media information.

Note:

The COS Python SDK version must be at least v5.1.9.11.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported. For more information, see Enabling Media Processing.

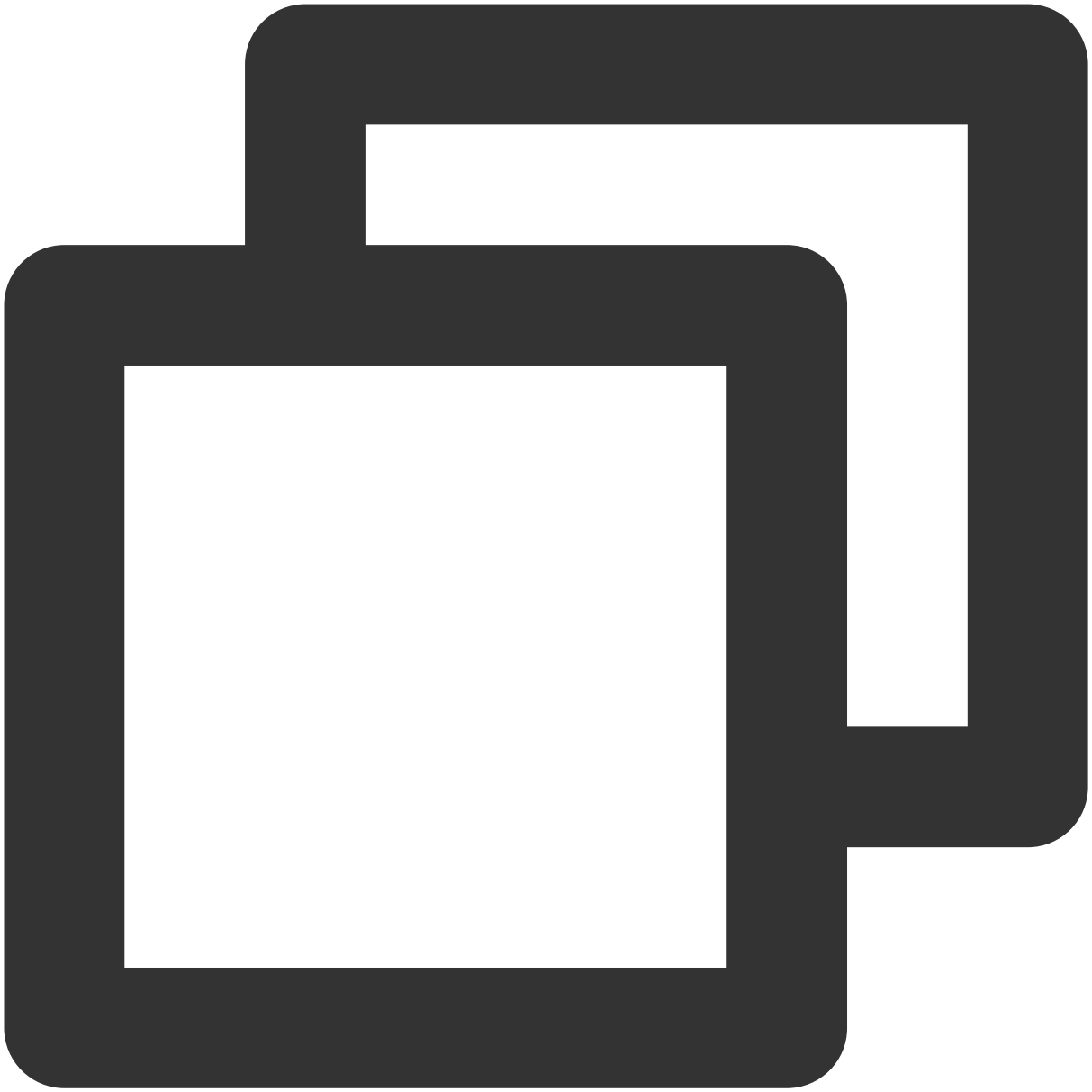
Querying File Information

Feature description

This API is used to query the information of a media file.

Method prototype

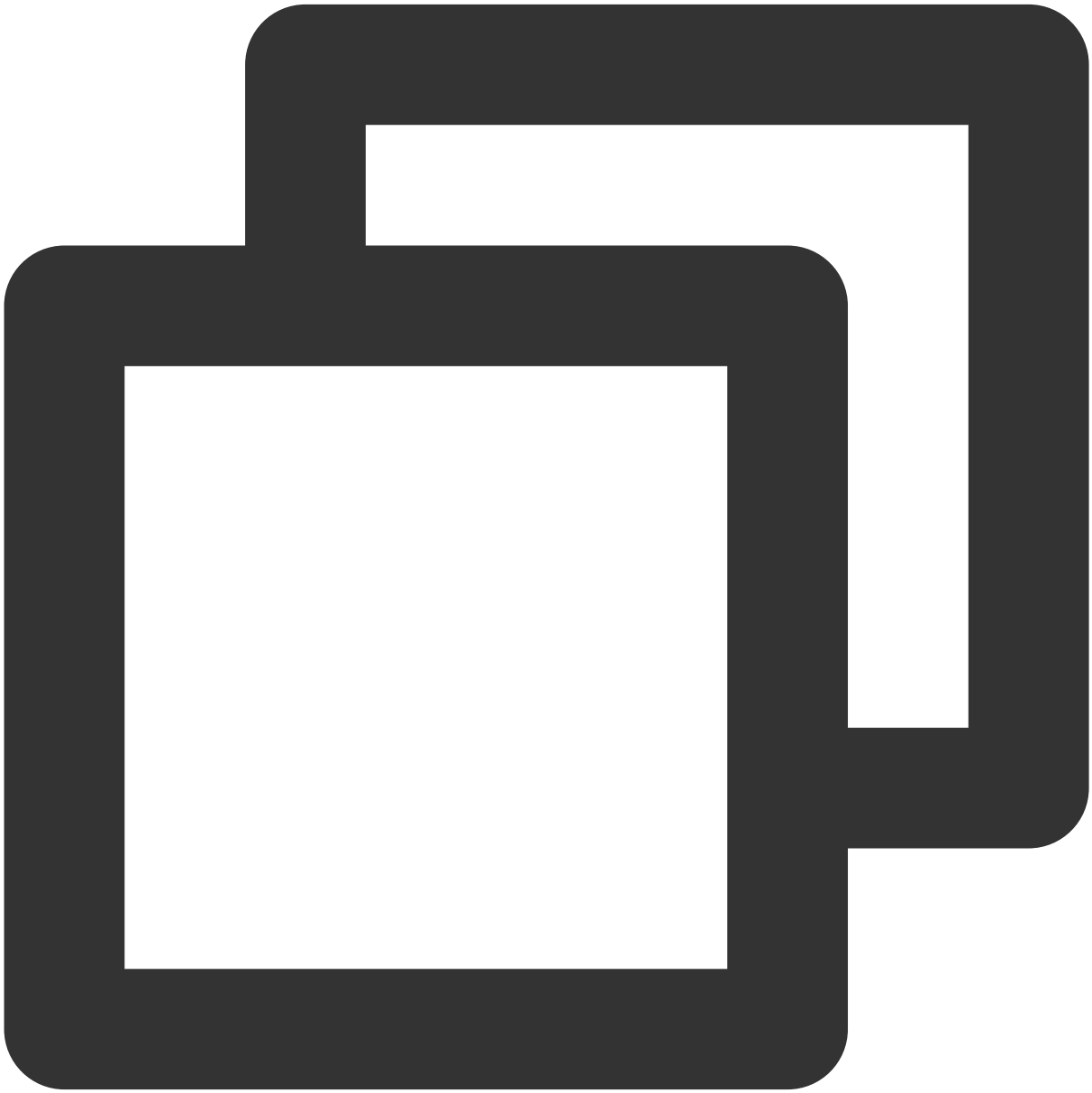
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```
def get_media_info(Bucket, Key, **kwargs)
```

Sample request

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```
response = client.get_media_info(
    Bucket=bucket_name,
    Key='demo.mp4'
)
print(response)
```

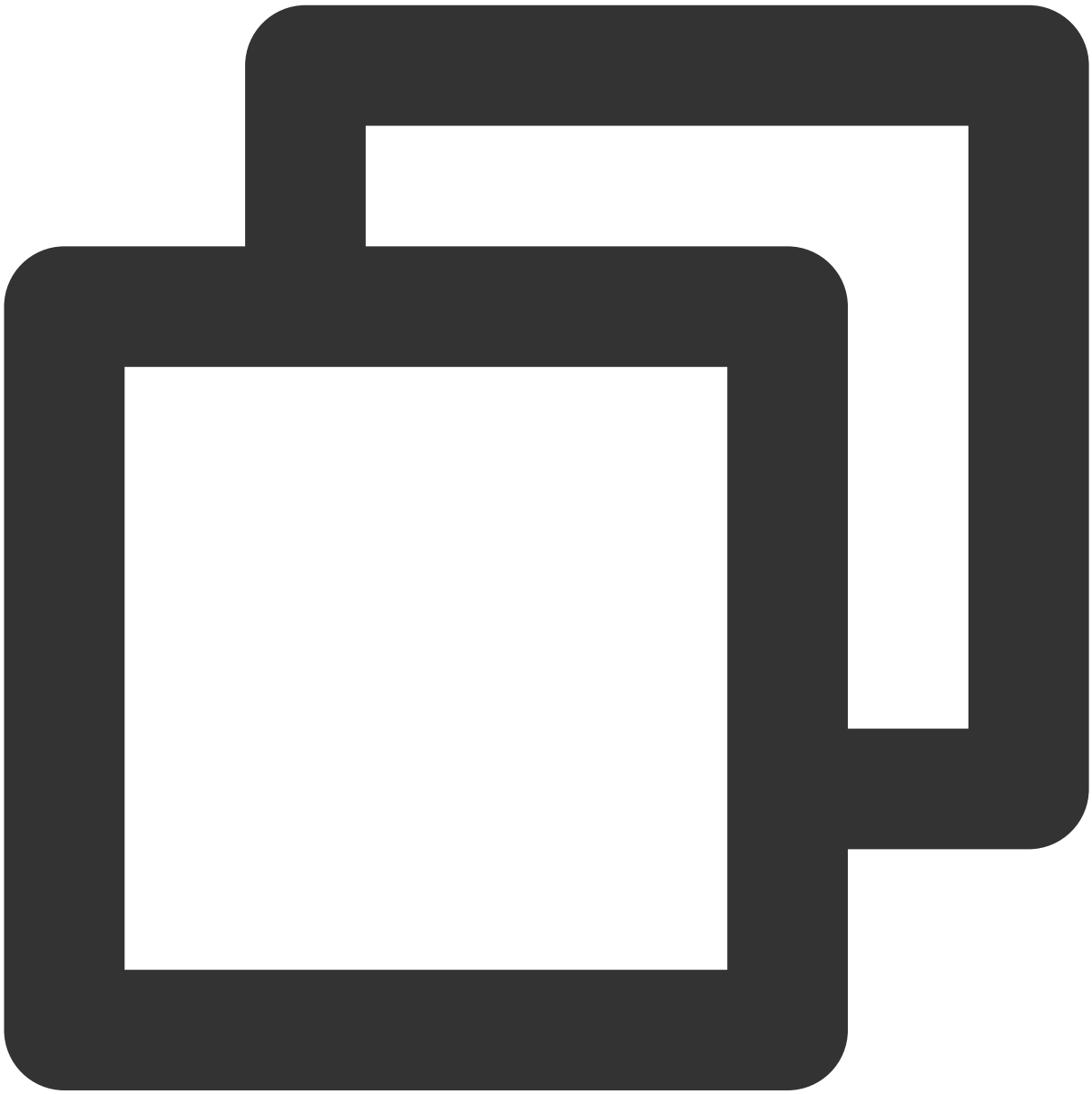
Parameter description

Parameter	Description	Required	Type

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Bucket	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	Yes	String
Key	Object key, which is the unique identifier of the object in the bucket.	Yes	String

Response description



```
{
    'MediaInfo': [{
        'Format': {
            'Bitrate': '16869.432000',
```

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```
            'Duration': '129.200000',
            'FormatLongName': 'QuickTime / MOV',
            'FormatName': 'mov,mp4,m4a,3gp,3g2,mj2',
            'NumProgram': '0',
            'NumStream': '2',
            'Size': '272441346',
            'StartTime': '0.000000'
        },
        'Stream': {
            'Audio': {
                'Bitrate': '125.712000',
                'Channel': '2',
                'ChannelLayout': 'stereo',
                'CodecLongName': 'AAC (Advanced Audio Coding)',
                'CodecName': 'aac',
                'CodecTag': '0x6134706d',
                'CodecTagString': 'mp4a',
                'CodecTimeBase': '1/44100',
                'Duration': '129.160998',
                'Index': '0',
                'Language': 'und',
                'SampleFmt': 'fltp',
                'SampleRate': '44100',
                'StartTime': '0.000000',
                'Timebase': '1/44100'
            },
            'Subtitle': None,
            'Video': {
                'AvgFps': '30/1',
                'Bitrate': '16738.543000',
                'CodecLongName': 'H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10',
                'CodecName': 'h264',
                'CodecTag': '0x31637661',
                'CodecTagString': 'avc1',
                'CodecTimeBase': '1/600',
                'Duration': '129.200000',
                'Fps': '30.500000',
                'HasBFrame': '1',
                'Height': '1920',
                'Index': '1',
                'Language': 'und',
                'Level': '40',
                'NumFrames': '3876',
                'PixFormat': 'yuvj420p',
                'Profile': 'High',
                'RefFrames': '1',
                'Rotation': '0.000000',
```


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```
                'StartTime': '0.000000',
                'Timebase': '1/600',
                'Width': '1080'
            }
        }
    }]
}
```

The nodes are as described below:

`MediaInfo` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Stream	MediaInfo	Stream information.	dict
Format	MediaInfo	Format information.	dict

`Stream` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Video	MediaInfo.Stream	Video information.	dict
Audio	MediaInfo.Stream	Audio information.	dict
Subtitle	MediaInfo.Stream	Subtitles information.	dict

`Format` has the following sub-nodes (certain nodes may not be returned during video information query):

Node Name (Keyword)	Parent Node	Description	Type
NumStream	MediaInfo.Format	Number of streams (including videos, audios, and subtitles).	String
NumProgram	MediaInfo.Format	Number of programs.	String
FormatName	MediaInfo.Format	Container format name.	String
FormatLongName	MediaInfo.Format	Detailed name of the container format.	String
StartTime	MediaInfo.Format	Start time in seconds.	String
Duration	MediaInfo.Format	Duration in seconds.	String
Bitrate	MediaInfo.Format	Bitrate in Kbps.	String

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Size	MediaInfo.Format	Size in bytes.	String

`Video` has the following sub-nodes (certain nodes may not be returned during video information query):

Node Name (Keyword)	Parent Node	Description	Type
Index	MediaInfo.Stream.Video	Stream number.	String
CodecName	MediaInfo.Stream.Video	Codec format name.	String
CodecLongName	MediaInfo.Stream.Video	Detailed name of the codec format.	String
CodecTimeBase	MediaInfo.Stream.Video	Codec timebase.	String
CodecTagString	MediaInfo.Stream.Video	Codec tag name.	String
CodecTag	MediaInfo.Stream.Video	Codec tag.	String
Profile	MediaInfo.Stream.Video	Video codec profile.	String
Height	MediaInfo.Stream.Video	Video height in px.	String
Width	MediaInfo.Stream.Video	Video width in px.	String
HasBFrame	MediaInfo.Stream.Video	Whether B-frames exist. 1: yes; 0: no.	String
RefFrames	MediaInfo.Stream.Video	Number of reference frames for video codec.	String
Sar	MediaInfo.Stream.Video	Sample aspect ratio.	String
Dar	MediaInfo.Stream.Video	Display aspect ratio.	String
PixFormat	MediaInfo.Stream.Video	Pixel format.	String
FieldOrder	MediaInfo.Stream.Video	Field order.	String
Level	MediaInfo.Stream.Video	Video codec level.	String
Fps	MediaInfo.Stream.Video	Video frame rate.	String
AvgFps	MediaInfo.Stream.Video	Average frame rate.	String
Timebase	MediaInfo.Stream.Video	Timebase.	String
StartTime	MediaInfo.Stream.Video	Video start time in seconds.	String
Duration	MediaInfo.Stream.Video	Video duration in seconds.	String
Bitrate	MediaInfo.Stream.Video	Bitrate in Kbps.	String

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NumFrames	MediaInfo.Stream.Video	Total number of frames.	String
Language	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	MediaInfo.Stream.Audio	Stream number.	String
CodecName	MediaInfo.Stream.Audio	Codec format name.	String
CodecLongName	MediaInfo.Stream.Audio	Detailed name of the codec format.	String
CodecTimeBase	MediaInfo.Stream.Audio	Codec timebase.	String
CodecTagString	MediaInfo.Stream.Audio	Codec tag name.	String
CodecTag	MediaInfo.Stream.Audio	Codec tag.	String
SampleFmt	MediaInfo.Stream.Audio	Sample format.	String
SampleRate	MediaInfo.Stream.Audio	Sample rate.	String
Channel	MediaInfo.Stream.Audio	Number of channels.	String
ChannelLayout	MediaInfo.Stream.Audio	Channel layout.	String
Timebase	MediaInfo.Stream.Audio	Timebase.	String
StartTime	MediaInfo.Stream.Audio	Audio start time in seconds.	String
Duration	MediaInfo.Stream.Audio	Audio duration in seconds.	String
Bitrate	MediaInfo.Stream.Audio	Bitrate in Kbps.	String
Language	MediaInfo.Stream.Audio	Language.	String

`Subtitle` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type
Index	MediaInfo.Stream.Subtitle	Stream number.	String
Language	MediaInfo.Stream.Subtitle	Language. `und` indicates no query result.	String

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Media Screenshot APIs

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for media screenshot.

Note:

The COS Python SDK version must be at least v5.1.9.11.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported. For more information, see Enabling Media Processing.

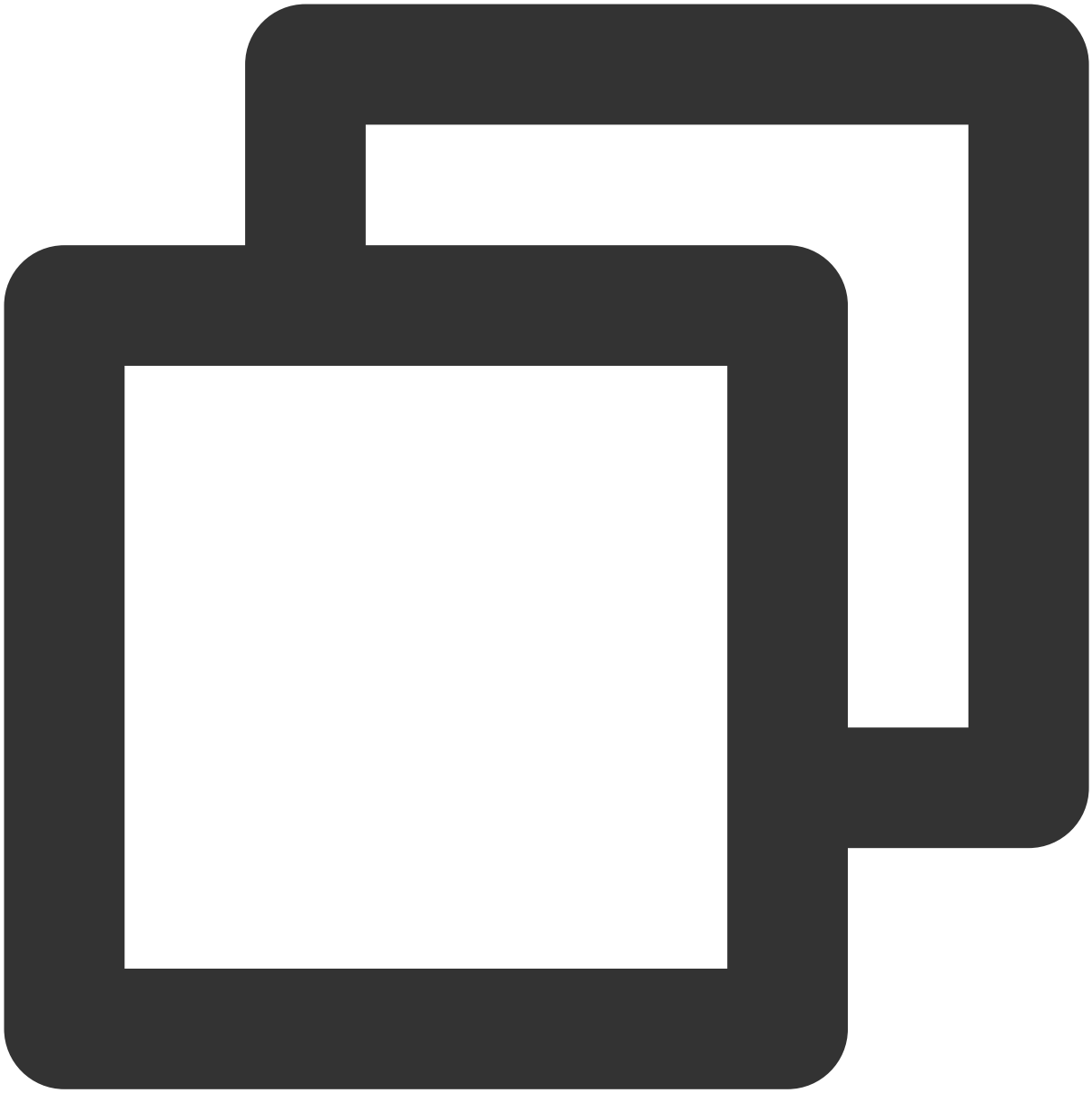
Querying Screenshot

Feature description

This API is used to query the screenshot of a media file at some time point.

Method prototype

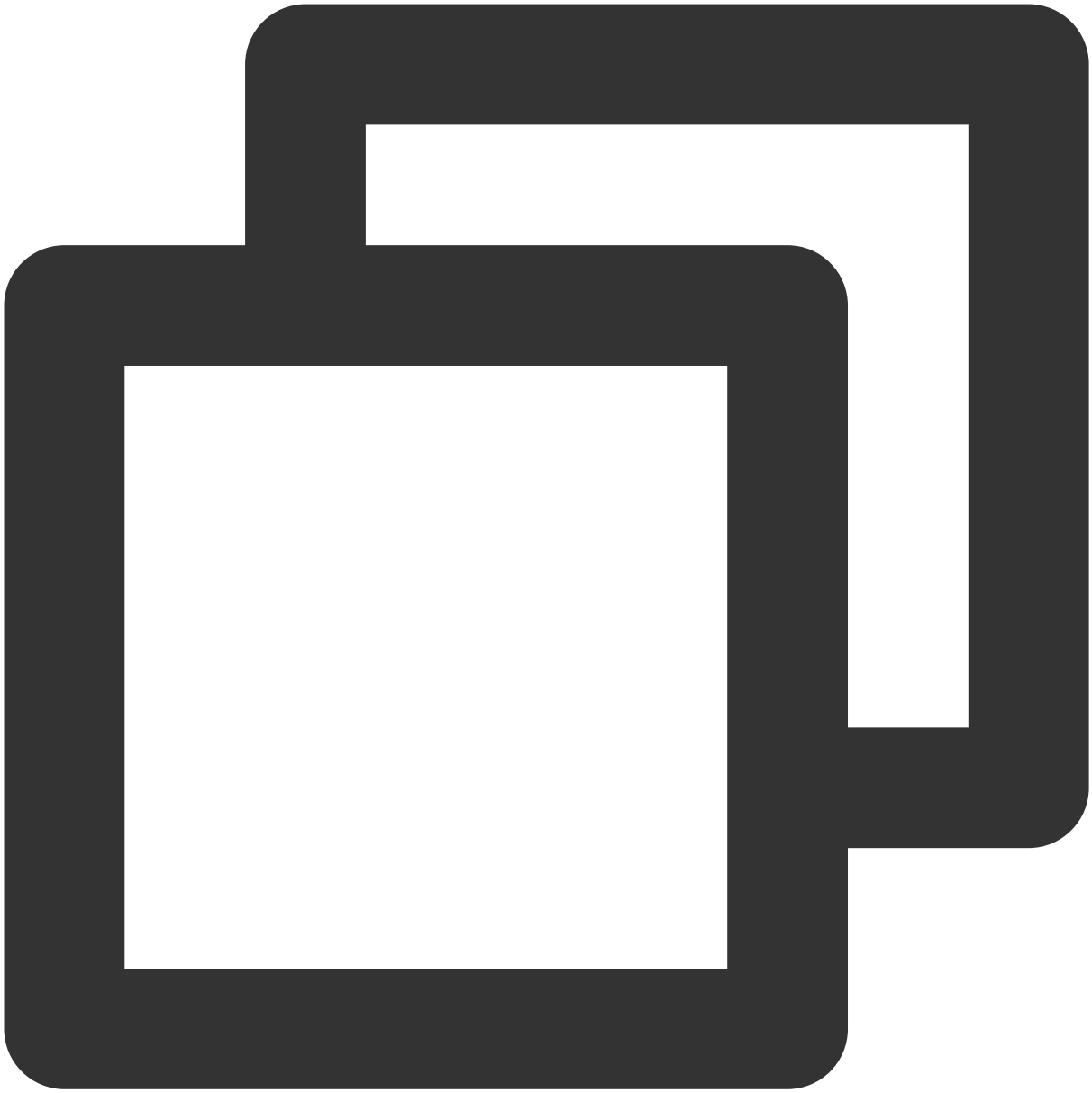
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```
def get_snapshot(Bucket, Key, Time, Width=None, Height=None, Format='jpg', Rotate='
```

Sample request

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```
response = client.get_snapshot(
    Bucket='examplebucket-1250000000',
    Key='demo.mp4',
    Time='1.5',
    Width='480',
    Format='png'
)
print(response)
response['Body'].get_stream_to_file('snapshot.jpg')
```

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Parameter description

Parameter	Description	Required	Type
Bucket	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	Yes	String
Key	Object key, which is the unique identifier of the object in the bucket.	Yes	String
Time	Screenshot time point in seconds, which can contain a decimal point.	Yes	String
Width	Screenshot width. Default value: 0.	No	String
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.	No	String
Format	Screenshot format. Valid values: jpg, png. Default value: jpg.	No	String
Rotate	Image rotation method. auto: Rotate automatically according to the video rotation information. off: Do not rotate. Default value: auto.	No	String
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.	No	String

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Content Moderation
Image Moderation

Last updated：2024-03-01 14:57:12

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for image moderation.

API	Description
Single image moderation	The existing data scan feature of image moderation leverages CI's persistent processing API to scan existing data stored in COS for pornographic, illegal, and advertising images. Content moderation requests are `GET` requests.
Batch image moderation	The batch image moderation API adopts a sync POST request method. You can use this API to perform content moderation on multiple image files.

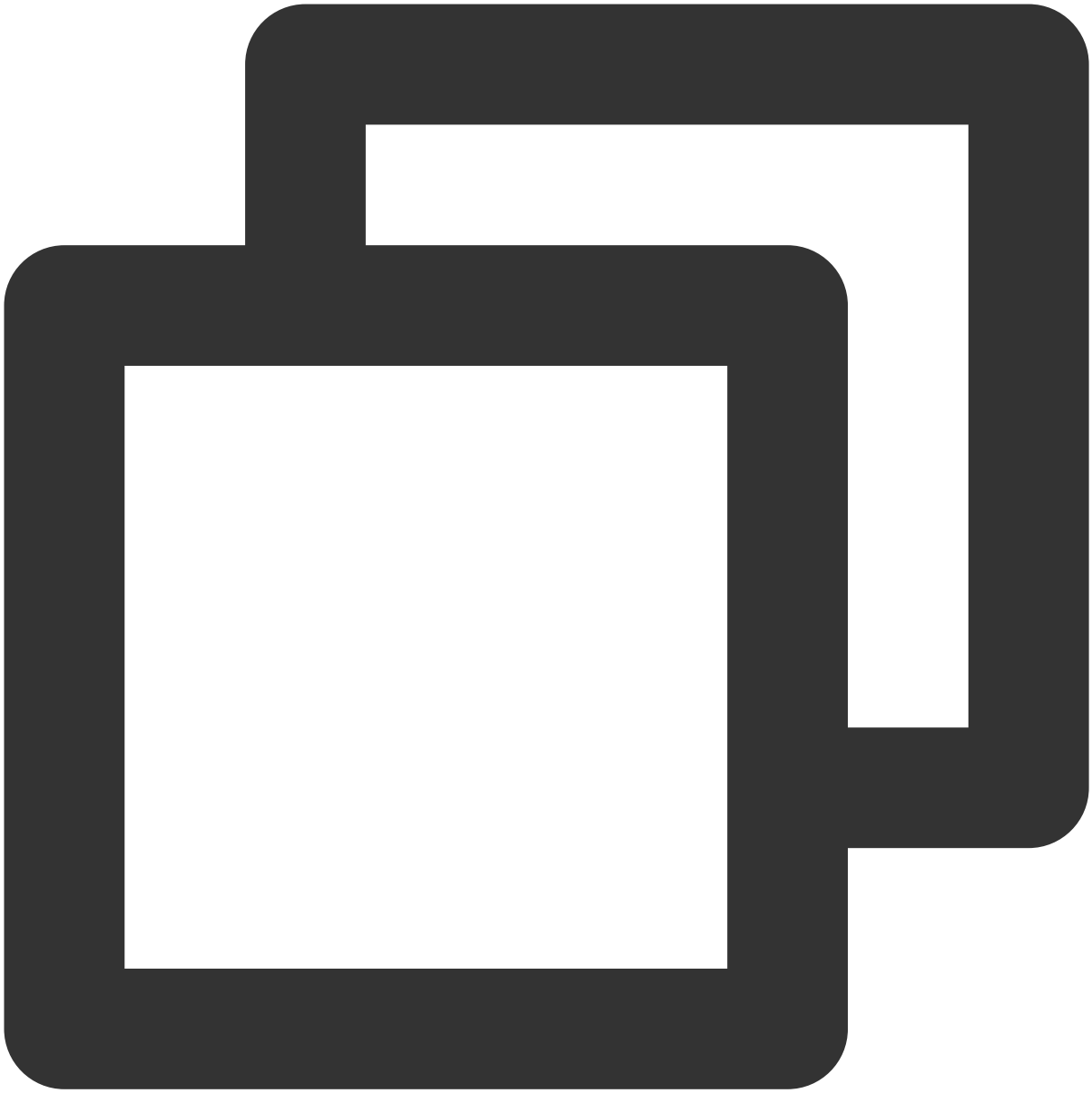
Single Image Moderation

Feature description

This API is used to moderate images in COS, including pornographic, illegal, and advertising images.

Sample code

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```
"""Test the CI's API for moderating content in a single image"""
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
from qcloud_cos.cos_comm import CiDetectType
# Create a COS client
response = client.get_object_sensitive_content_recognition(
    Bucket=test_bucket,
    Key=test_object,
    DetectUrl='https://examplebucket-1250000000.cos.ap-chongqing.myqcloud.com/t
    DetectType=(CiDetectType.PORN | CiDetectType.ADS)
)
```

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```
    print(response)
```

Parameter description

The `get_object_sensitive_content_recognition` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Key	Object name, such as `picture.jpg` .	String	Yes
BizType	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 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
DetectType	Moderation type. Valid values: `CiDetectType.PORN` (pornography), `CiDetectType.ADS` (advertising). You can select multiple types. For example, `CiDetectType.PORN | CiDetectType.ADS` indicates to moderate the image for pornographic and advertising information. If you need more moderation scenes, use the `BizType` parameter.	enum	No
Interval	Frame capturing frequency, which takes effect for GIF/long images only. The default value is `0` , indicating to detect only the first frame of the GIF/long image.	Int	No
MaxFrames	The maximum number of frames to be captured, which takes effect for GIF/long images only. The default value is `1` , indicating to capture only the first frame of the GIF image for moderation, or that the long image will not be split.	Int	No
DetectUrl	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

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LargeImageDetect	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
dataid	Image ID. This field will return the original content in the result, which can contain up to 512 bytes.	String	No

Response parameters

Calling the `get_object_sensitive_content_recognition` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Single Image Moderation.

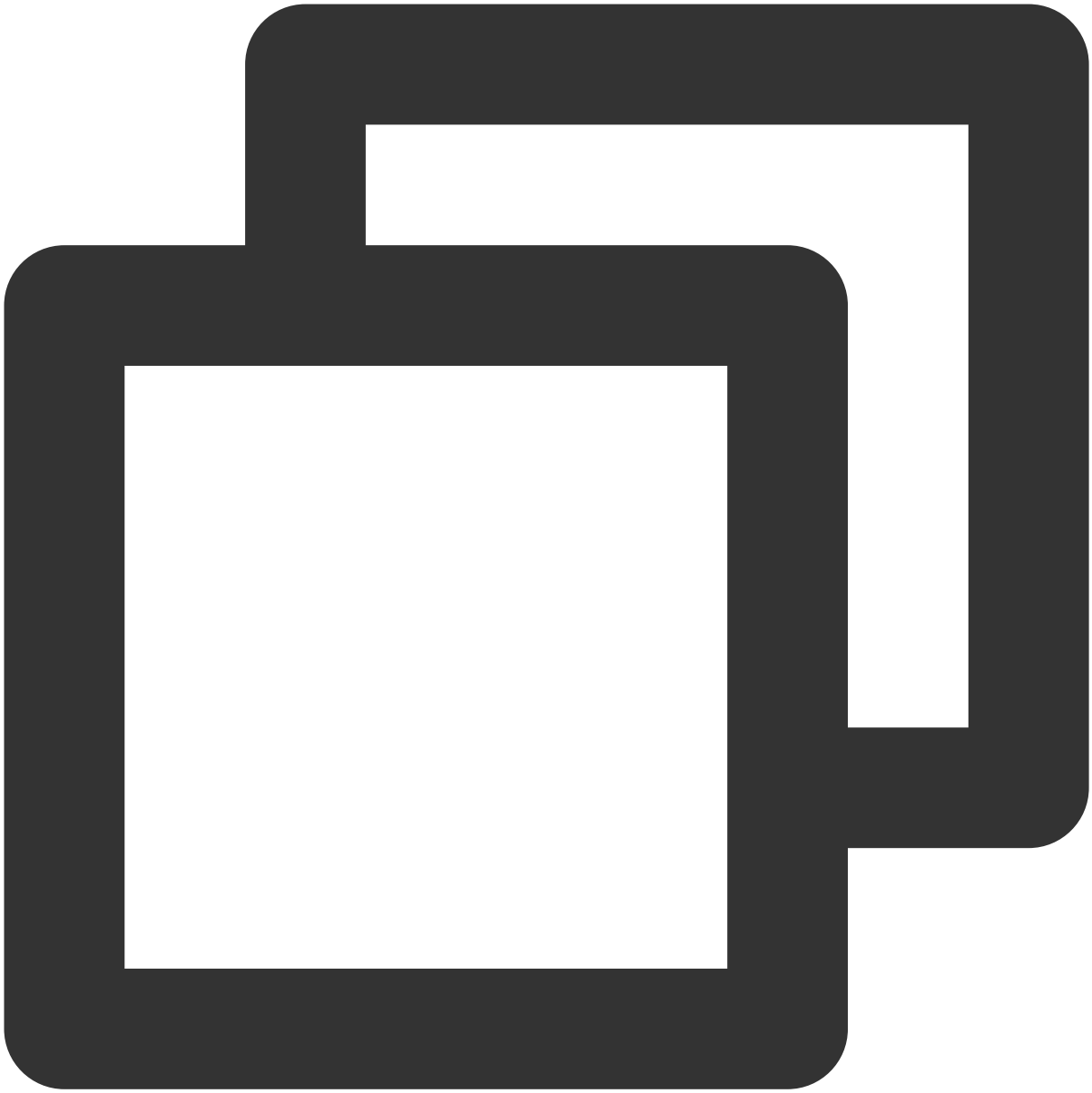
Batch Image Moderation

Feature description

This API is used to moderate multiple images in COS, including pornographic, illegal, and advertising images.

Sample code

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```
"""Test the CI's API for batch moderating content in images"""
from qcloud_cos import CosConfig
from qcloud_cos import CosS3Client
from qcloud_cos.cos_comm import CiDetectType
# Create a COS client
response = client.ci_auditing_image_batch(
    Bucket=bucket_name,
    DetectType=CiDetectType.PORN,
    Input=[{
        'Url':'https://examplebucket-1250000000.cos.ap-chongqing.myqcloud.com/p
        'DataId': 'testdataid-111111',
```

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```
            'UserInfo':{
            'TokenId': 'token',
            'Nickname': 'test',
            'DeviceId': 'DeviceId-test',
            'AppId': 'AppId-test',
            'Room': 'Room-test',
            'IP': 'IP-test',
            'Type': 'Type-test',
        },
        },{
            'Object':'test-0.jpg',
            'LargeImageDetect' :1,
        },{
            'Url':'https://examplebucket-1250000000.cos.ap-chongqing.myqcloud.com/p
        }]
    )
    print(response)
```

Parameter description

The `ci_auditing_image_batch` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
BizType	Unique identifier of the moderation policy. It is automatically generated by the backend and corresponds to the `Biztype` value in the console.	String	No
DetectType	Moderation type. Valid values: `CiDetectType.PORN` (pornography), `CiDetectType.ADS` (advertising). You can select multiple types. For example, `CiDetectType.PORN | CiDetectType.ADS` indicates to moderate the image for pornographic and advertising information. If you need more moderation scenes, use the `BizType` parameter.	enum	No
Input	Information of the image to be moderated. Each array element is of the dict type. The following parameters are supported: **Object**: Name of the image file stored in the COS bucket. For example, if the file is `image.jpg` in the `test` directory, the file name is `test/image.jpg`. Either `Object` or `Url` can be selected at a time. `Url`: URL of the image file, for example, `http://a-1250000.cos.ap-shanghai.tencentcos.cn/image.jpg`. Either `Object` or `Url` can be selected at a time.	Array	No

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	`Interval` : 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). `MaxFrames` : 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. `DataId` : Image identifier. This field will return the original content in the result, which can contain up to 512 bytes. `LargeImageDetect` : 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. `UserInfo` : Business field.		

Response parameters

Calling the `ci_auditing_image_batch` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Batch Image Moderation.

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Video Moderation

Last updated：2024-03-01 14:57:12

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for video moderation.

Note:

COS Python SDK v5.1.9.10 or later is required. Earlier versions may contain bugs and need to be upgraded to the latest version when being used.

API	Description
Submitting video moderation job	Submits a video moderation job.
Querying video moderation job result	Queries the result of a specified video moderation job.

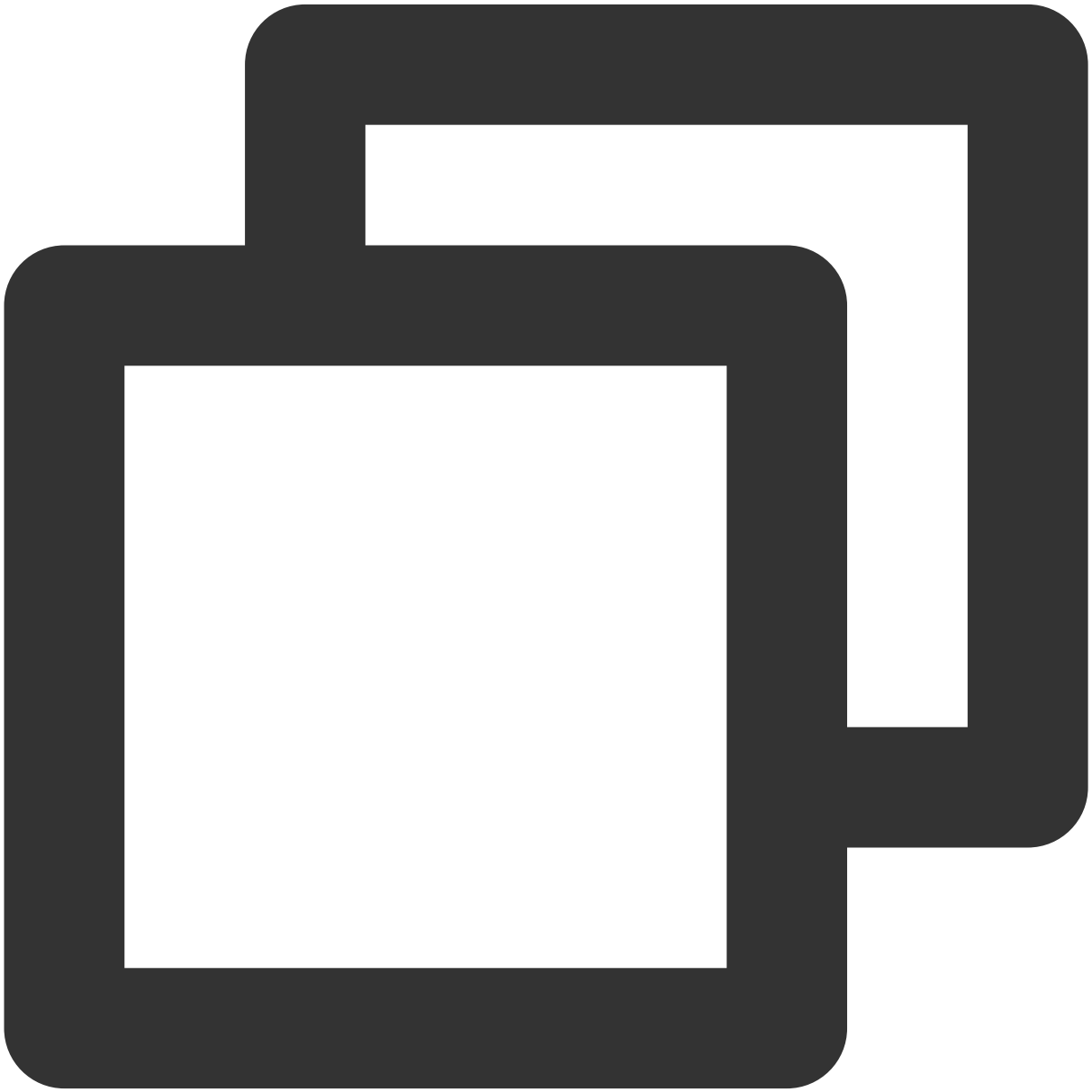
Submitting a Video Moderation Job

Feature description

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 to query the moderation results.

Sample code

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```
"""Test the CI's API for moderating video file content"""
# Create a COS client
# Recognize a video in COS
response = client.ci_auditing_video_submit(
    Bucket='bucket',
    DetectType=CiDetectType.PORN | CiDetectType.ADS,
    Key='test.mp4'
)
print response
```

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Parameter description

The `ci_auditing_video_submit` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
Key	Object name, such as `picture.jpg`.	String	Yes
BizType	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 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
DetectType	Moderation type. Valid values: `CiDetectType.PORN` (pornography), `CiDetectType.ADS` (advertising). You can select multiple types. For example, `CiDetectType.PORN | CiDetectType.ADS` indicates to moderate the video for pornographic and advertising information. If you need more moderation scenes, use the `BizType` parameter.	enum	No
Url	A video URL that is not in COS can be directly used for moderation.	String	No
Callback	Callback address, which must start with `http://` or `https://`.	String	No
CallbackVersion	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
Mode	Frame capturing mode. Valid values: `Interval` (interval mode), `Average` (average mode), `Fps` (fixed frame rate mode). `Interval` mode: The `TimeInterval` and `Count` parameters take effect. If `Count` is set but `TimeInterval` is not, all frames will be captured to generate a total of `Count` images.	String	No

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	`Average` mode: The `Count` parameter takes effect, indicating to capture a total of `Count` images at an average interval in the entire video. `Fps` mode: `TimeInterval` indicates how many frames to capture per second, and `Count` indicates how many frames to capture in total.		
Count	Number of captured frames. Value range: (0, 10000].	String	No
TimeInterval	Video frame capturing frequency. Value range: (0, 60] seconds. The value supports the float format, accurate to the millisecond.	String	No
UserInfo	Business field. For details on parameters that can be passed in, see the `UserInfo` field in Submitting Video Moderation Job.	Dict	No
DataId	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

Response parameters

Calling the `ci_auditing_video_submit` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Submitting Video Moderation Job.

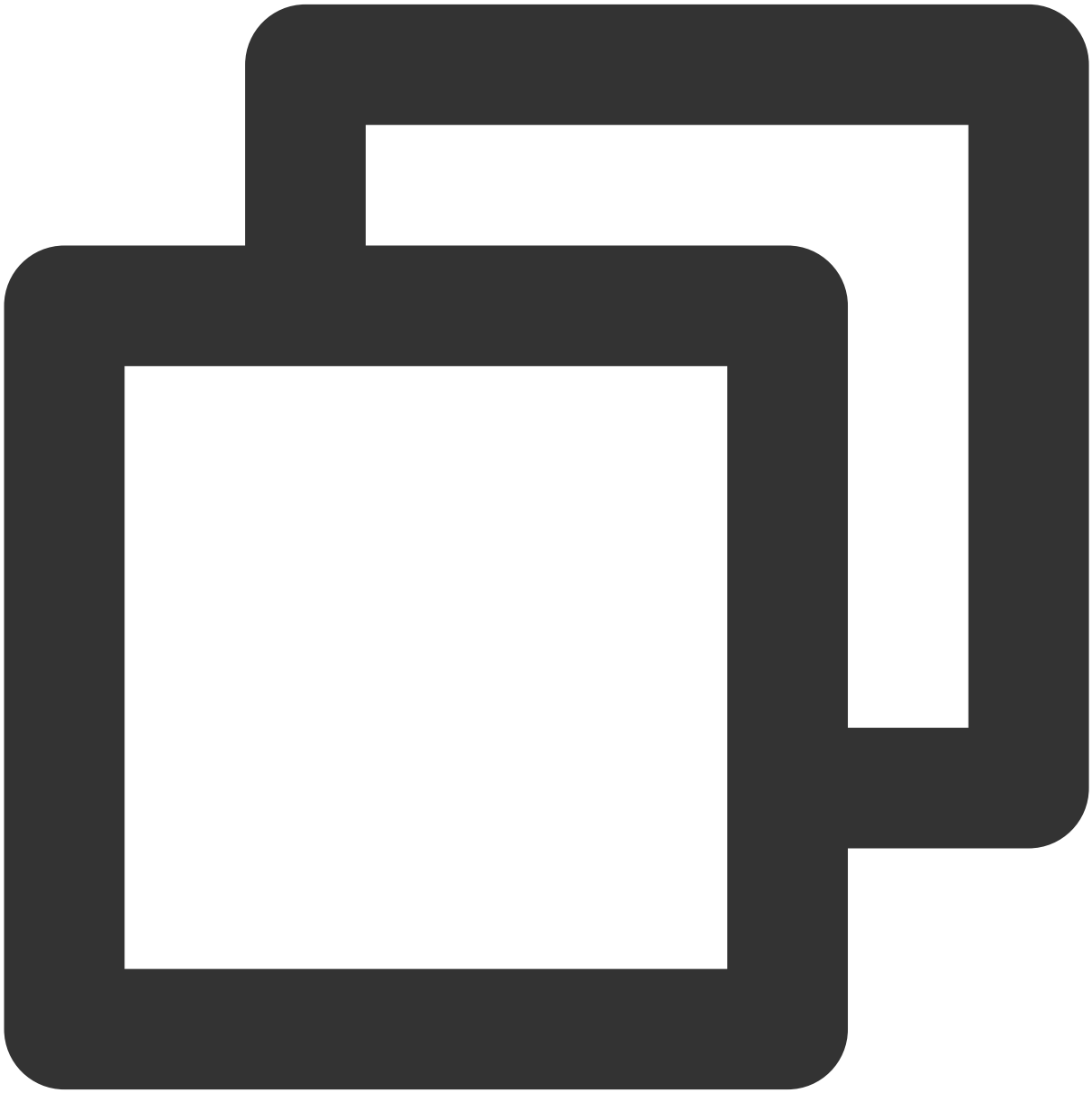
Querying Video Moderation Job Result

Feature description

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.

Sample code

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```
    """Test the CI's API for querying moderation job result"""
    # Create a COS client
    # Query the moderation result
    response = client.ci_auditing_video_query(
        Bucket='bucket',
        JobID='v11122zxxxazzz'
    )
    print response
```

Parameter description

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The `ci_auditing_video_query` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
JobID	Moderation job ID.	String	Yes

Response parameters

Calling the `ci_auditing_video_query` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Querying Video Moderation Job Result.

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Audio Moderation

Last updated：2024-03-01 14:57:12

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for audio moderation.

Note:

COS Python SDK v5.1.9.10 or later is required. Earlier versions may contain bugs and need to be upgraded to the latest version when being used.

API	Description
Submitting audio moderation job	Submits an audio moderation job.
Querying audio moderation job result	Queries the result of a specified audio moderation job.

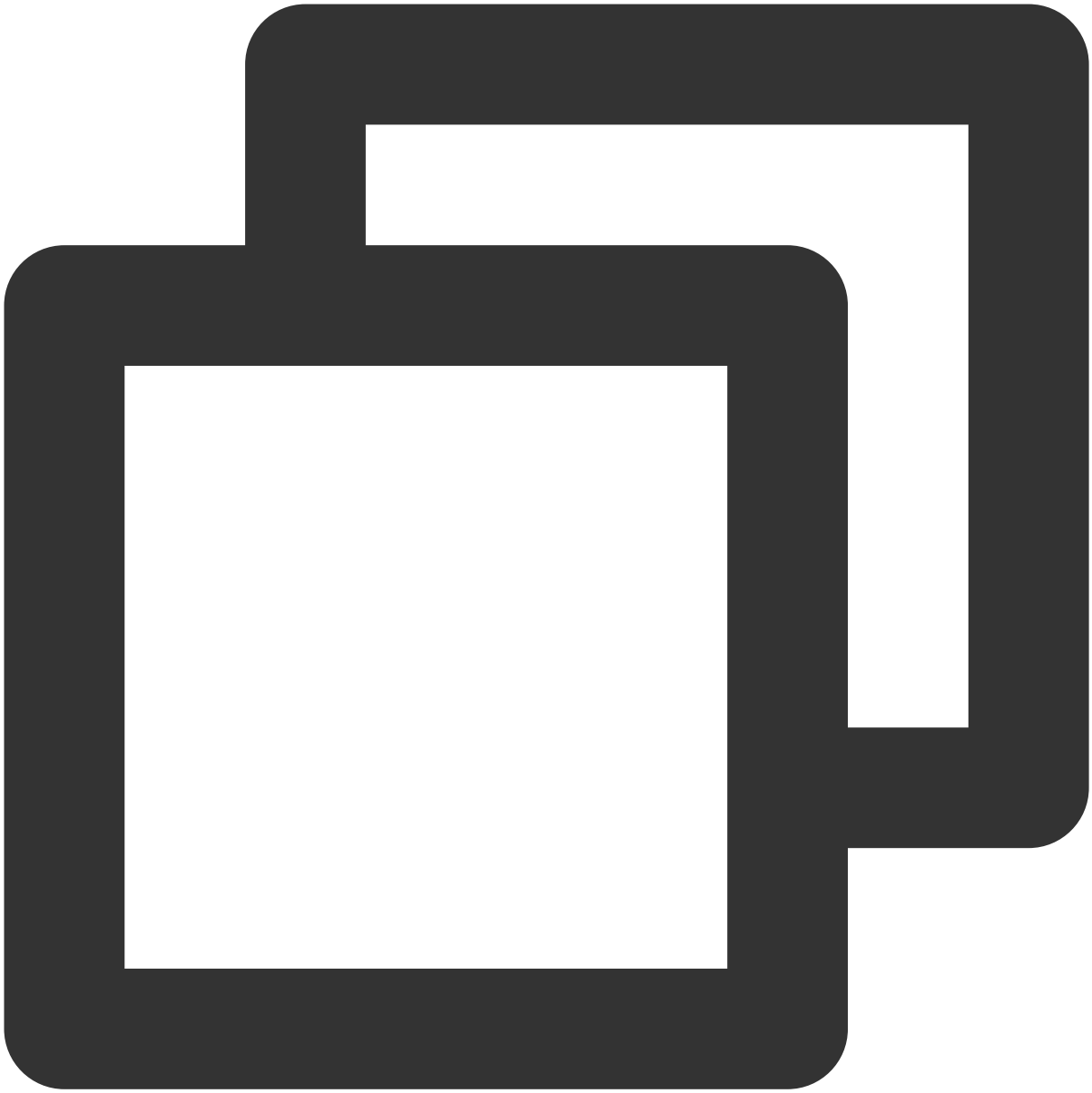
Submitting an Audio Moderation Job

Feature description

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 to query the moderation results.

Sample code

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```
"""Test the CI's API for moderating audio file content"""
# Create a COS client
# Recognize an audio in COS
response= client.ci_auditing_audio_submit(
    Bucket='bucket',
    DetectType=CiDetectType.PORN | CiDetectType.ADS,
    Key='test.mp3'
)
print response
```

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Parameter description

The `ci_auditing_audio_submit` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
Key	Object name, such as `picture.jpg`.	String	Yes
BizType	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 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
DetectType	Moderation type. Valid values: `CiDetectType.PORN` (pornography), `CiDetectType.ADS` (advertising). You can select multiple types. For example, `CiDetectType.PORN | CiDetectType.ADS` indicates to moderate the audio for pornographic and advertising information. If you need more moderation scenes, use the `BizType` parameter.	enum	No
Url	An audio URL that is not in COS can be directly used for moderation.	String	No
Callback	Callback address, which must start with `http://` or `https://`.	String	No
CallbackVersion	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
UserInfo	Business field. For details on parameters that can be passed in, see the `UserInfo` field in Submitting Audio Moderation Job.	Dict	No
DataId	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

Response parameters

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Calling the `ci_auditing_audio_submit` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Submitting Audio Moderation Job.

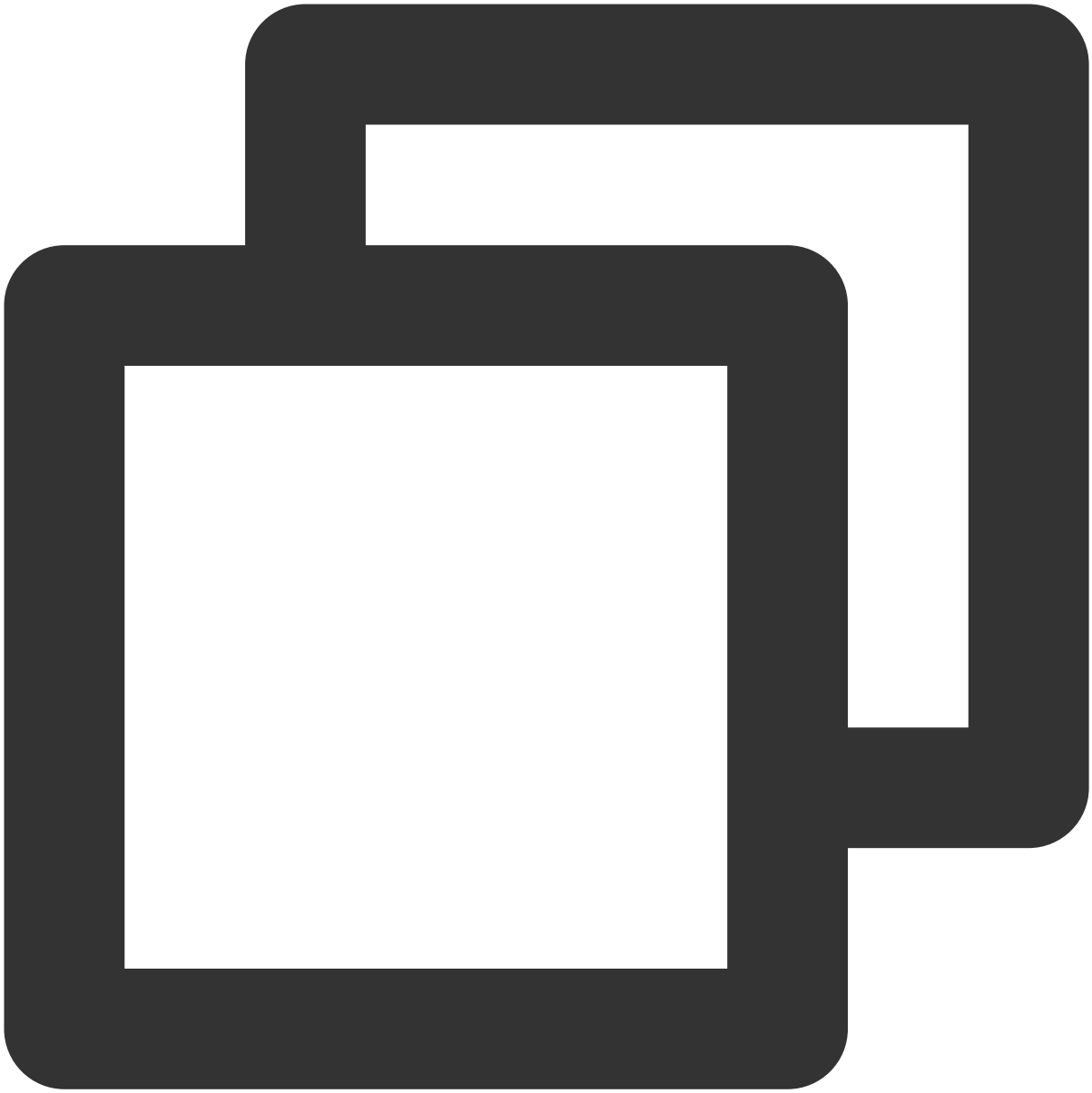
Querying Audio Moderation Job Result

Feature description

This API is used to query the result of a specified 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 to query the moderation results.

Sample code

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```
    """Test the CI's API for querying moderation job result"""
    # Create a COS client
    # Query the moderation result
    response = client.ci_auditing_audio_query(
        Bucket='bucket',
        JobID='v11122zxxxazzz'
    )
    print response
```

Parameter description

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The `ci_auditing_audio_query` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
JobID	Moderation job ID.	String	Yes

Response parameters

Calling the `ci_auditing_audio_query` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Querying Audio Moderation Job Result.

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Text Moderation

Last updated：2024-03-01 14:57:12

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for text moderation.

Note:

COS Python SDK v5.1.9.10 or later is required. Earlier versions may contain bugs and need to be upgraded to the latest version when being used.

API	Description
Submitting text moderation job	Submits a text moderation job.
Querying text moderation job result	Queries the result of a specified text moderation job.

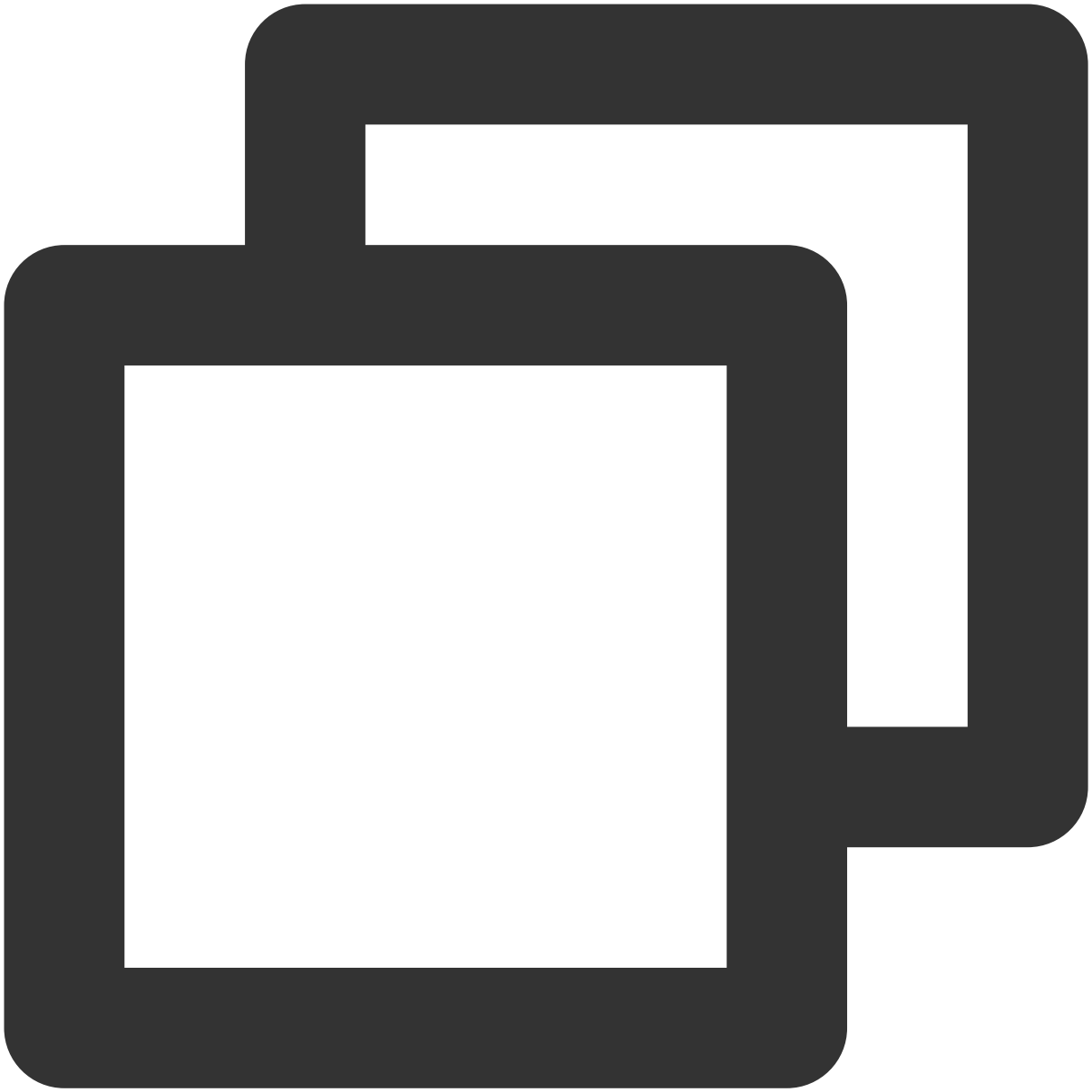
Submitting a Text Moderation Job

Feature description

This API is used to submit a text moderation job. The text moderation feature is async. You can submit a job to moderate your text files, and then use the API for querying text moderation job result to query the moderation results.

Sample code

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```
    """Test the CI's API for moderating text file content"""
    # Create a COS client
    # Recognize a text in COS
    response= client.ci_auditing_text_submit(
        Bucket='bucket',
        DetectType=CiDetectType.PORN | CiDetectType.ADS,
        Key='test.txt'
    )
    print response
```

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Parameter description

The `ci_auditing_text_submit` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
Key	Object name, such as `picture.jpg`.	String	No
BizType	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 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
DetectType	Moderation type. Valid values: `CiDetectType.PORN` (pornography), `CiDetectType.ADS` (advertising). You can select multiple types. For example, `CiDetectType.PORN | CiDetectType.ADS` indicates to moderate the text for pornographic and advertising information. If you need more moderation scenes, use the `BizType` parameter.	enum	No
Content	When the input content is plain text, the length of the original text cannot exceed 10,000 UTF-8 characters. If the length limit is exceeded, the API will report an error.	String	No
Callback	Callback address, which must start with `http://` or `https://`.	String	No
UserInfo	Business field. For details on parameters that can be passed in, see the `UserInfo` field in Submitting Text Moderation Job.	Dict	No
DataId	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

Response parameters

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Calling the `ci_auditing_text_submit` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Submitting Text Moderation Job.

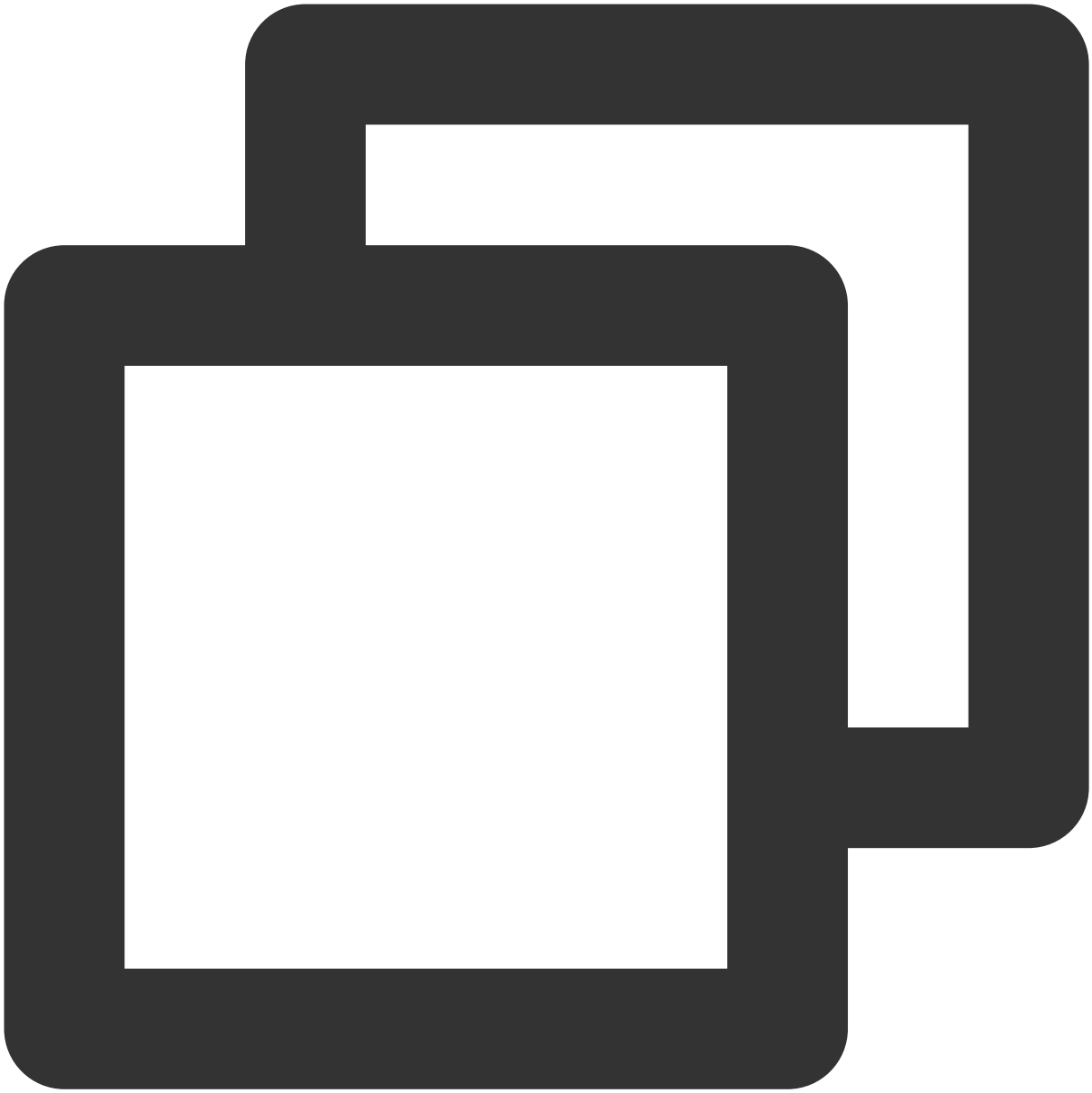
Querying Text Moderation Job Result

Feature description

This API is used to query the result of a specified text moderation job. The text moderation feature is async. You can submit a job to moderate your text files, and then use the API for querying text moderation job result to query the moderation results.

Sample code

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```
    """Test the CI's API for querying moderation job result"""
    # Create a COS client
    # Query the moderation result
    response = client.ci_auditing_text_query(
        Bucket='bucket',
        JobID='v11122zxxxazzz'
    )
    print response
```

Parameter description

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The `ci_auditing_text_query` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
JobID	Moderation job ID.	String	Yes

Response parameters

Calling the `ci_auditing_text_query` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Querying Text Moderation Job Result.

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File Moderation

Last updated：2024-03-01 14:57:12

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for file moderation.

Note:

COS Python SDK v5.1.9.10 or later is required. Earlier versions may contain bugs and need to be upgraded to the latest version when being used.

API	Description
Submitting file moderation job	Submits a file moderation job.
Querying file moderation job result	Queries the result of a specified file moderation job.

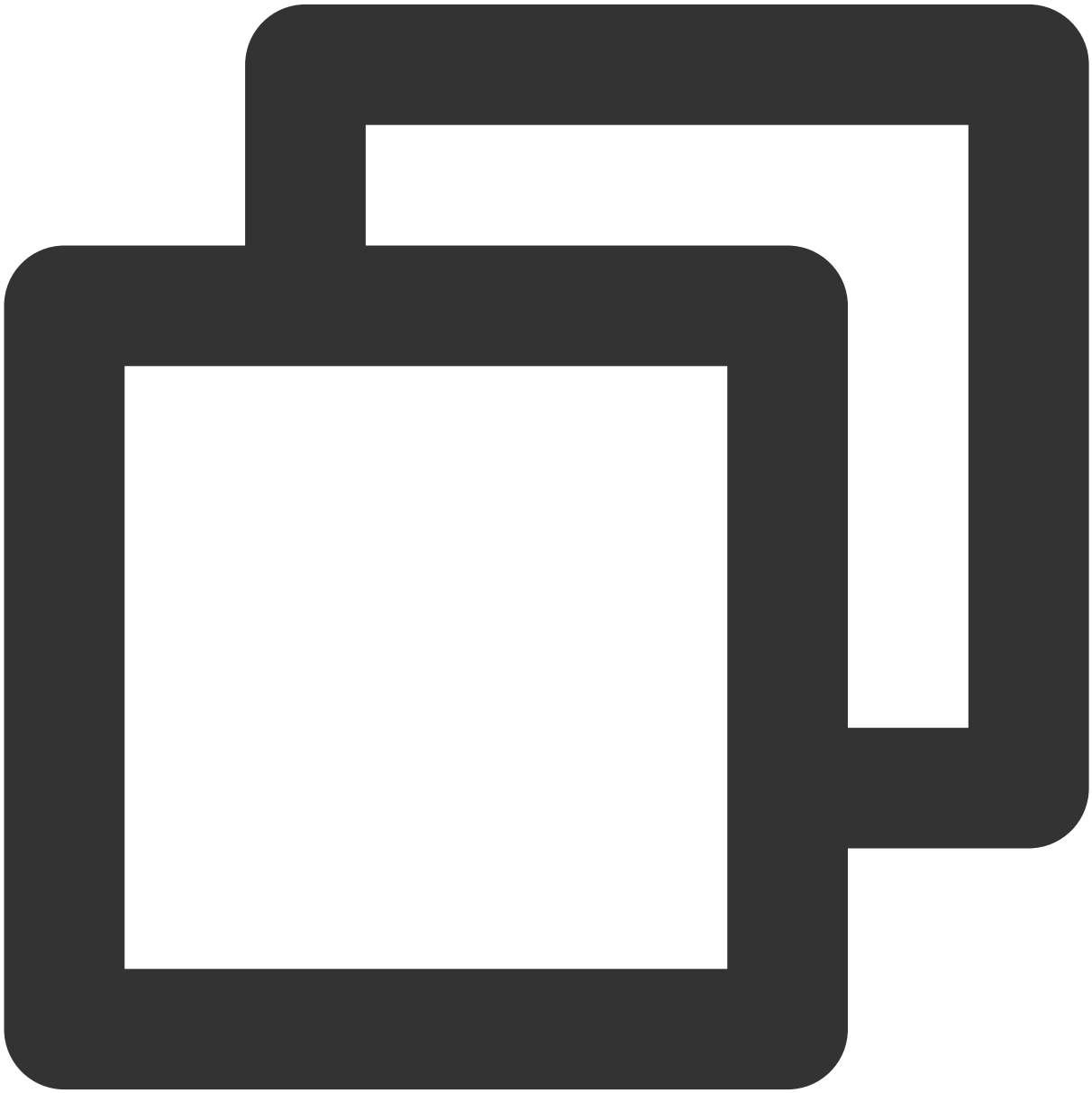
Submitting a File Moderation Job

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 API for querying file moderation job result to query the moderation results.

Sample code

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```
    """Test the CI's API for moderating file content"""
    # Create a COS client
    # Recognize a file in COS
    response = client.ci_auditing_document_submit(
        Bucket=bucket_name,
        DetectType=CiDetectType.PORN | CiDetectType.ADS,
        Url='https://www.test.com/sss.docx',
        Type='docx',
    )
    print response
```

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Parameter description

The `ci_auditing_document_submit` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
Key	Object name, such as `picture.jpg` .	String	No
DetectType	Moderation type. Valid values: `CiDetectType.PORN` (pornography), `CiDetectType.ADS` (advertising). You can select multiple types. For example, `CiDetectType.PORN | CiDetectType.ADS` indicates to moderate the file for pornographic and advertising information. If you need more moderation scenes, use the `BizType` parameter.	enum	Yes
Url	A file URL that is not in COS can be directly used for moderation.	String	No
Type	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
Callback	Callback address, which must start with `http://` or `https://` .	String	No
BizType	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 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
UserInfo	Business field. For details on parameters that can be passed in, see the `UserInfo` field in Submitting File Moderation Job.	Dict	No
DataId	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

Response parameters

Calling the `ci_auditing_document_submit` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Submitting File Moderation Job.

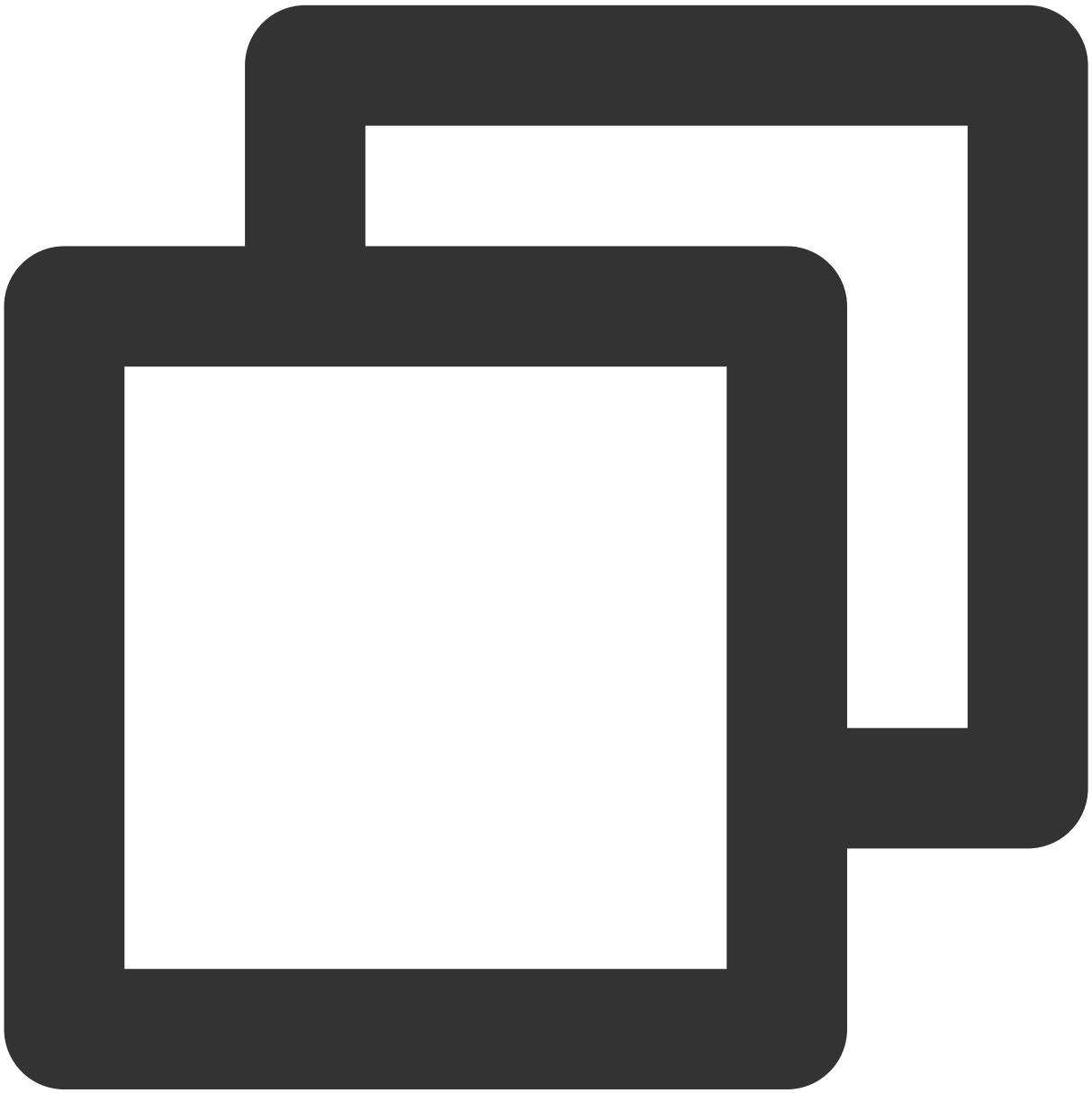
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Querying File Moderation Job Result

Feature description

This API is used to query the result of a specified file moderation job. The file moderation feature is async. You can submit a job to moderate your files, and then use the API for querying file moderation job result to query the moderation results.

Sample code



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```
    """Test the CI's API for querying moderation job result"""
    # Create a COS client
    # Query the moderation result
    response = client.ci_auditing_document_query(
        Bucket='bucket',
        JobID='v11122zxxxazzz'
    )
    print response
```

Parameter description

The `ci_auditing_document_query` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
JobID	Moderation job ID.	String	Yes

Response parameters

Calling the `ci_auditing_document_query` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Querying File Moderation Job Result.

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Webpage Moderation

Last updated：2024-03-01 14:57:12

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note:

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for webpage moderation.

Note:

COS Python SDK v5.1.9.18 or later is required. Earlier versions may contain bugs and need to be upgraded to the latest version when being used.

API	Description
Submitting webpage moderation job	Submits a webpage moderation job.
Querying webpage moderation job result	Queries the result of a specified webpage moderation job.

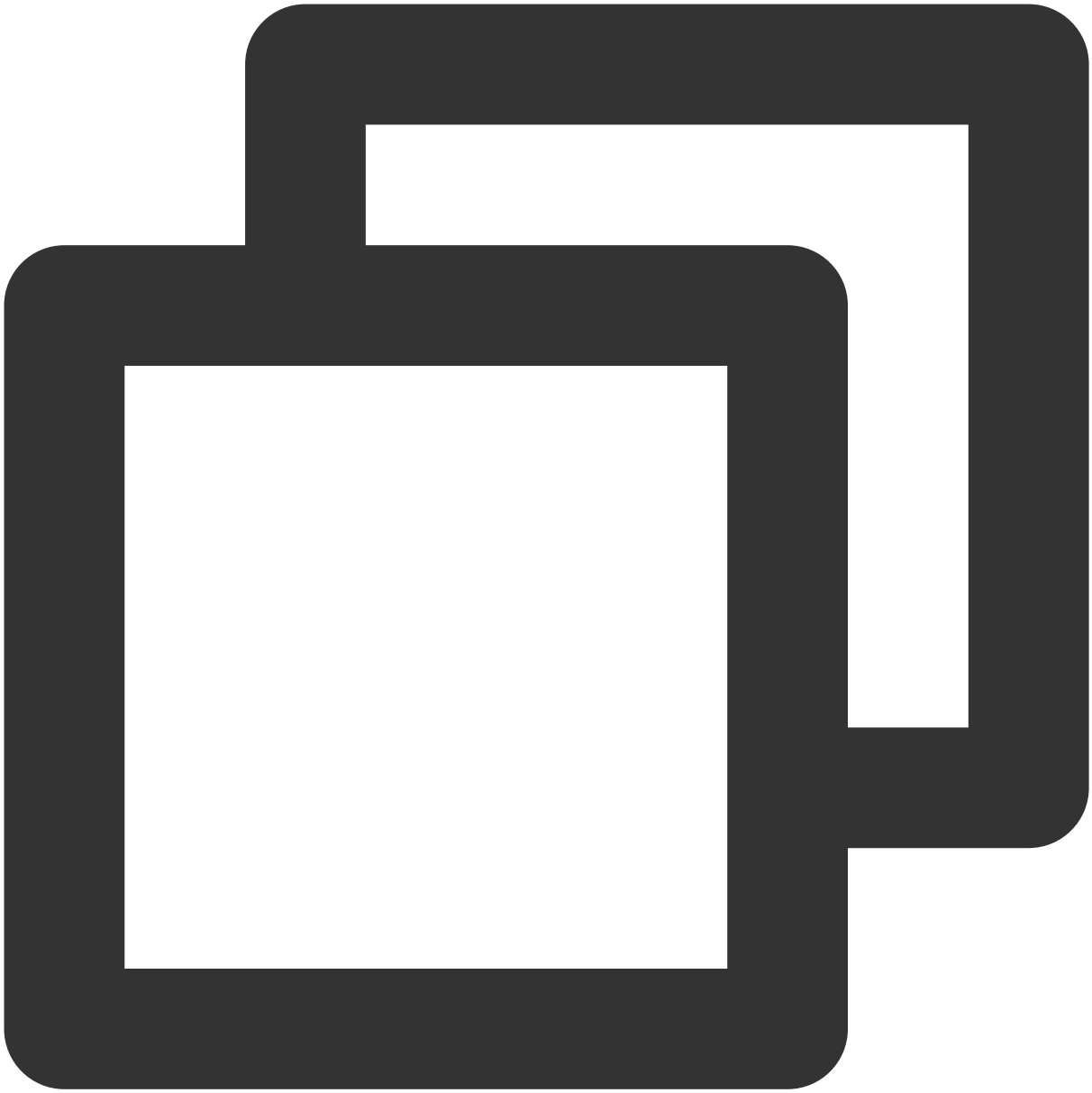
Submitting a Webpage Moderation Job

Feature description

This API is used to submit a webpage moderation job. The webpage moderation feature is async. You can submit a job to moderate your webpage files, and then use the API for querying webpage moderation job result to query the moderation results.

Sample code

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```
"""Test the CI's API for moderating webpage file content"""
# Create a COS client
# Recognize a webpage in COS
response= client.ci_auditing_html_submit(
    Bucket='bucket',
    DetectType=CiDetectType.PORN | CiDetectType.ADS,
    Url='http://example.com'
)
print response
```

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Parameter description

The `ci_auditing_html_submit` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
Url	Webpage URL.	String	Yes
BizType	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 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
DetectType	Moderation type. Valid values: `CiDetectType.PORN` (pornography), `CiDetectType.ADS` (advertising). You can select multiple types. For example, `CiDetectType.PORN | CiDetectType.ADS` indicates to moderate the webpage for pornographic and advertising information. If you need more moderation scenes, use the `BizType` parameter.	enum	No
Url	A webpage URL that is not in COS can be directly used for moderation.	String	No
Callback	Callback address, which must start with `http://` or `https://` .	String	No
ReturnHighlightHtml	This parameter specifies whether to highlight the non-compliant text on the webpage. When the result is queried or called back, this parameter decides whether to return the highlighted HTML content. Valid values: `true` , `false` . Default value: `false` .	Bool	No
UserInfo	Business field. For details on parameters that can be passed in, see the `UserInfo` field in Submitting Webpage Moderation Job.	Dict	No
DataId	This field will return the original content in the moderation result, which can contain up to 512 bytes. You can use this	String	No

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	field to uniquely identify the data to be moderated in your business.		

Response parameters

Calling the `ci_auditing_html_submit` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Submitting Webpage Moderation Job.

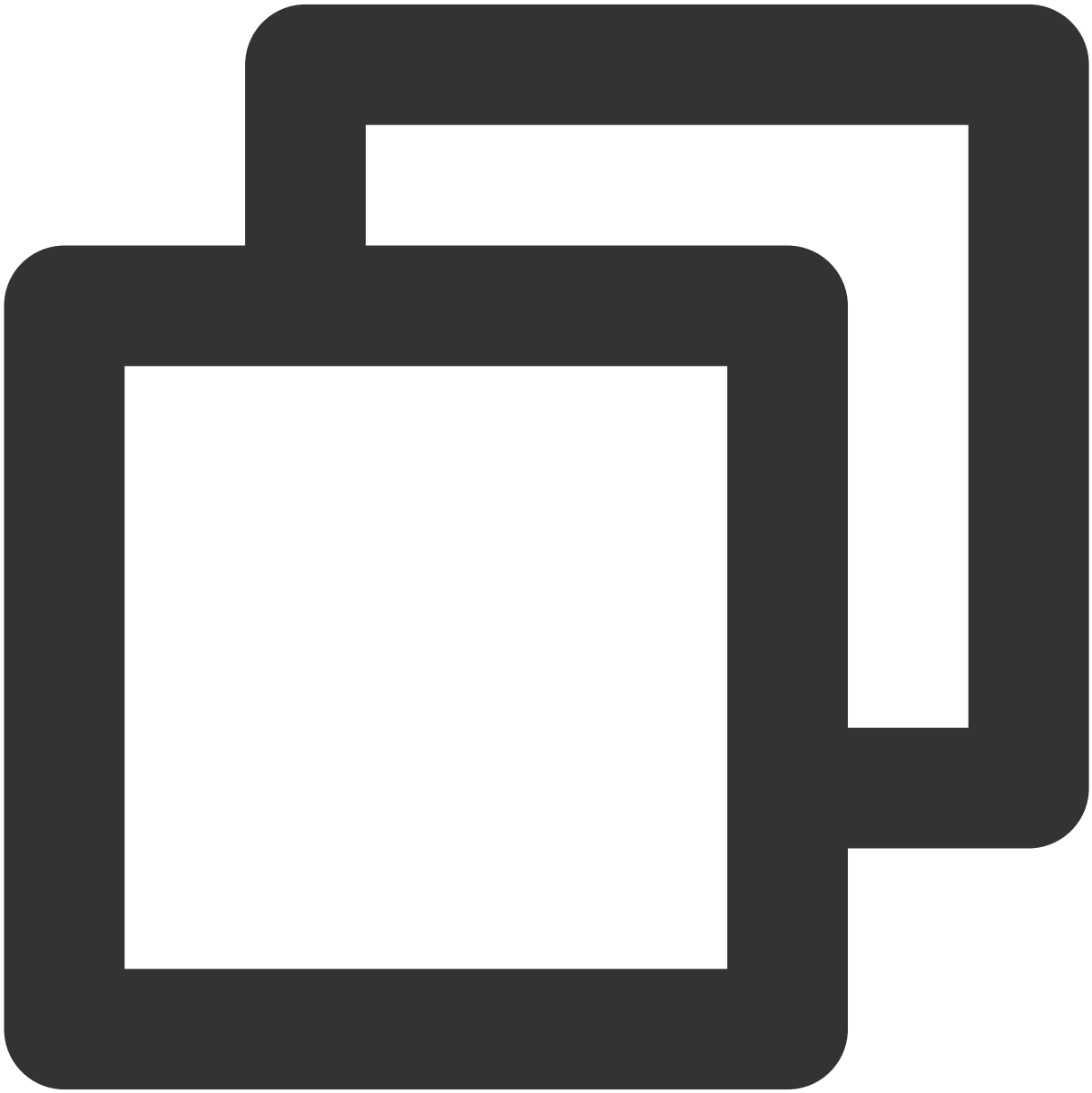
Querying Webpage Moderation Job Result

Feature description

This API is used to query the result of a specified webpage moderation job. The webpage moderation feature is async. You can submit a job to moderate your webpage files, and then use the API for querying webpage moderation job result to query the moderation results.

Sample code

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```
    """Test the CI's API for querying moderation job result"""
    # Create a COS client
    # Query the moderation result
    response = client.ci_auditing_html_query(
        Bucket='bucket',
        JobID='v11122zxxxazzz'
    )
    print response
```

Parameter description

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The `ci_auditing_html_query` function is called. Specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
JobID	Moderation job ID.	String	Yes

Response parameters

Calling the `ci_auditing_html_query` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Querying Webpage Moderation Job Result.

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Content Recognition
Speech Recognition
Job APIs

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for speech recognition jobs.

API	Operation	Description
Submitting a speech recognition job	Submits a speech recognition job	Submiting a speech recognition job.
Querying the specified speech recognition job	Queries the specified speech recognition job	Querying the specified speech recognition job.
Pulling eligible speech recognition jobs	Pulls eligible speech recognition jobs	Pulling speech recognition jobs that meet specified conditions.

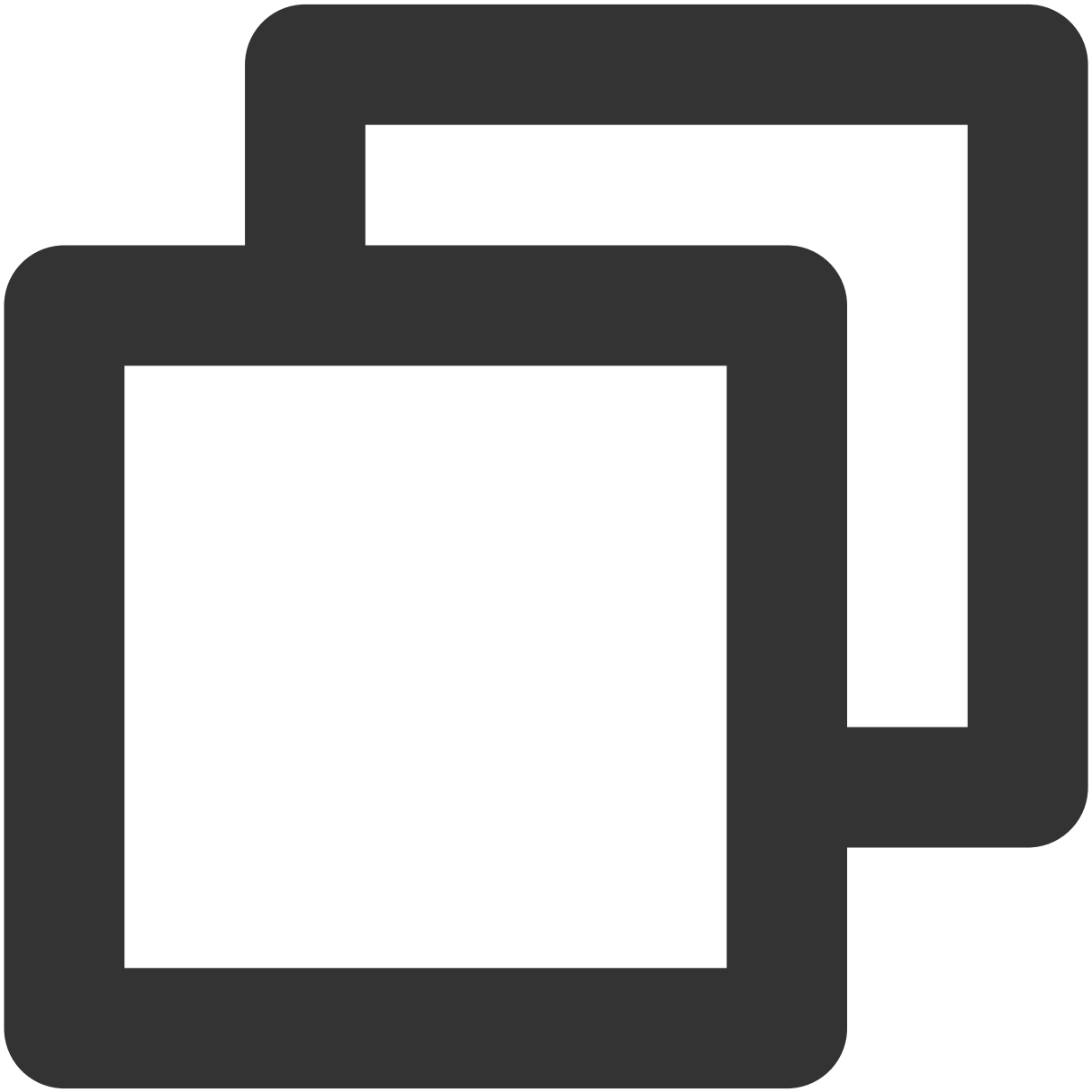
Submitting Speech Recognition Job

Feature description

This API (`ci_create_asr_job`) is used to submit a speech recognition job.

Method prototype

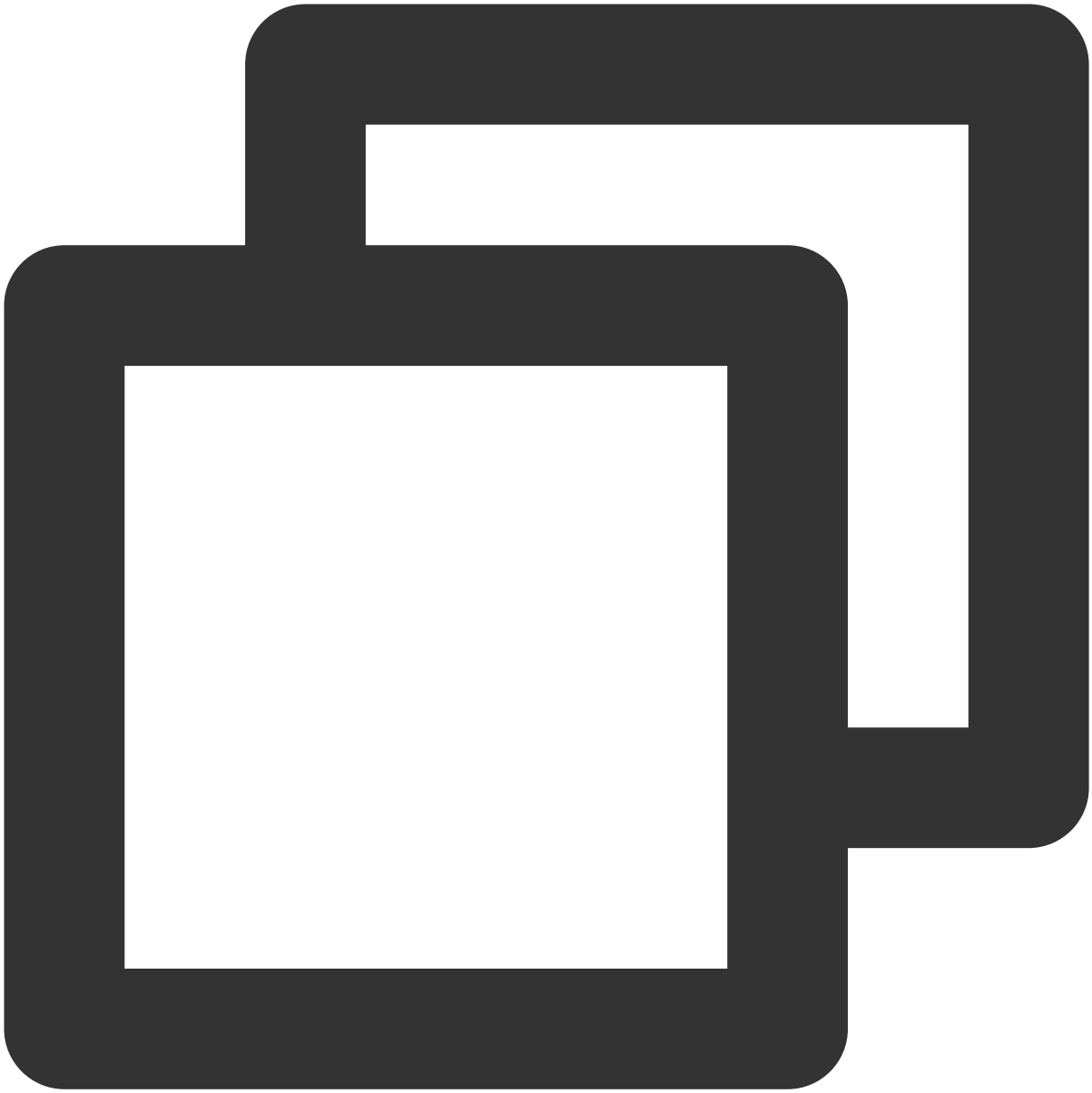
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```
def ci_create_asr_job(self, Bucket, QueueId, InputObject, OutputBucket, OutputRegio
                      SpeechRecognition=None, CallBack=None, CallBackFormat=None, C
```

Sample request

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```
def ci_create_asr_jobs():
    # Create an async speech recognition job (with a template)
    response = client.ci_create_asr_job(
        Bucket=bucket_name,
        QueueId='s0980xxxxxxxxxxxxxxff12',
        TemplateId='t1ada6f282d29742dxxxxxxxxxxxx',
        InputObject='normal.mp4',
        OutputBucket=bucket_name,
        OutputRegion='ap-chongqing',
        OutputObject='result.txt',
    )
```

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```
    print(response)
    return response

def ci_create_asr_jobs():
    # Create an async speech recognition job (with parameters)
    body = {
        'EngineModelType': '16k_zh',
        'ChannelNum': '1',
        'ResTextFormat': '1',
    }
    response = client.ci_create_asr_job(
        Bucket=bucket_name,
        QueueId='s0980xxxxxxxxxxxxxxff12',
        InputObject='normal.mp4',
        OutputBucket=bucket_name,
        OutputRegion='ap-chongqing',
        OutputObject='result.txt',
        SpeechRecognition=body
    )
    print(response)
    return response
```

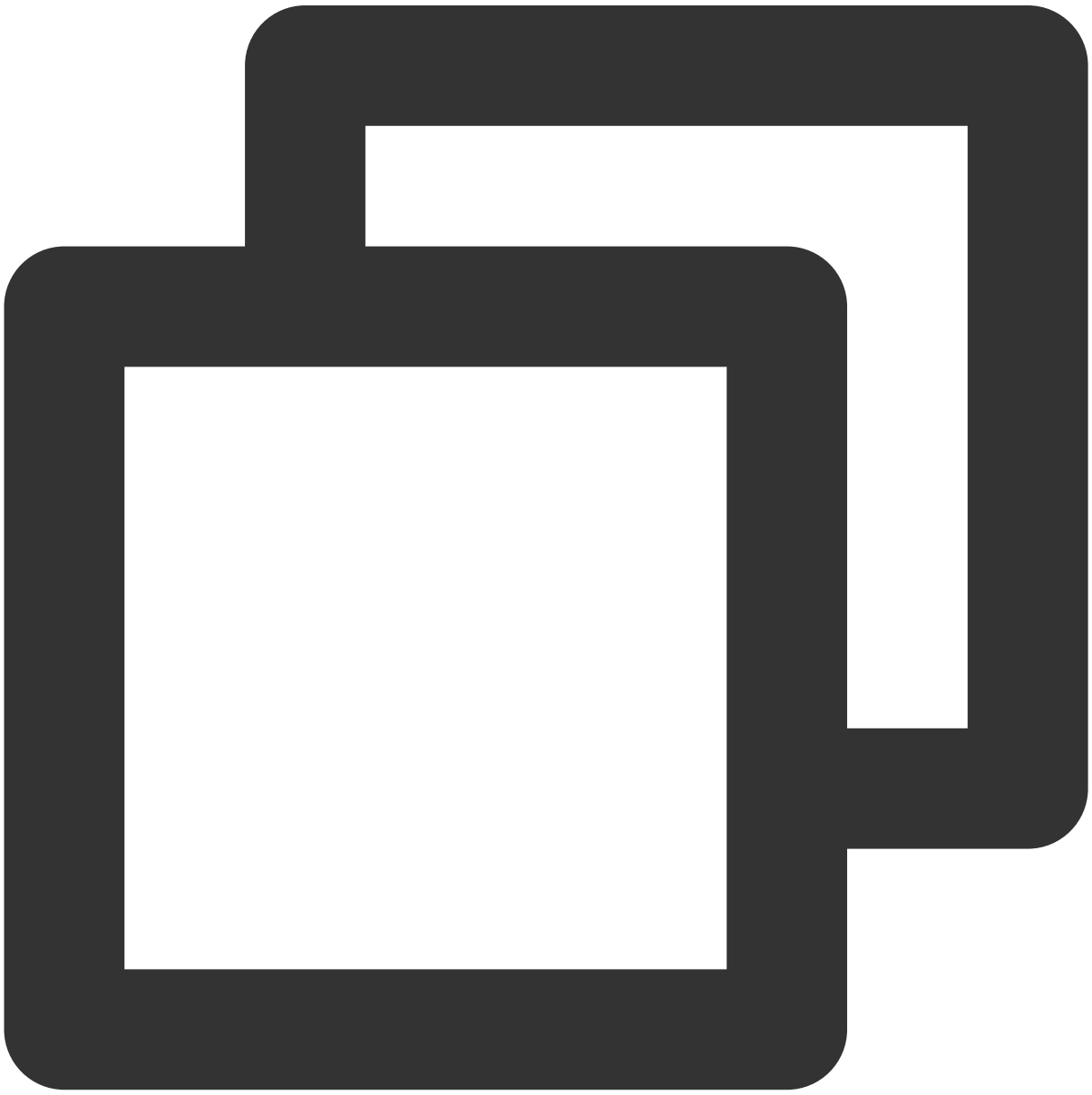
Parameter description

Parameter	Description	Type
Bucket	Bucket of the object	String
QueueId	ID of the queue which the job is in	String
InputObject	The object to be processed	Container
OutputRegion	Bucket region	String
OutputBucket	Result storage bucket	String
OutputObject	Output file path	String
TemplateId	Template ID	String
SpeechRecognition	Speech recognition parameter. For more information, see `SpeechRecognition` in Submitting Speech Recognition Job.	dict
CallBack	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

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CallBackFormat	Job callback format, which can be `JSON` or `XML` (default). It has a higher priority than that of the queue.	string
CallBackType	Job callback type, which can be `Url` (default) or `TDMQ`. It has a higher priority than that of the queue.	string
CallBackMqConfig	TDMQ configuration for job callback as described in Structure, which is required if `CallBackType` is `TDMQ`.	dict

Response description



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```
{
    'JobsDetail': {
        'Code': 'Success',
        'CreationTime': '2022-09-14T22:31:38+0800',
        'EndTime': '-',
        'Input': {'BucketId': 'test-12539xxxxx', 'Object': 'normal.mp4', 'Region':
        'JobId': 'sf1398ed0343911eda6d733209028ff12',
        'Message': None,
        'Operation': {
            'JobLevel': '0',
            'Output': {'Bucket': 'test-12539xxxxx', 'Object': 'result.txt', 'Region
            'TemplateId': 't1ada6f282d29742db83244e085exxxxxx',
            'TemplateName': 'name'
        },
        'QueueId': 'p7369ebcf8f93414c8250c966xxxxxxxx',
        'StartTime': '-',
        'State': 'Submitted',
        'Tag': 'SpeechRecognition'
    }
}
```

Parameter	Description	Type
JobsDetail	Job details	Container
Code	Error code, which will be returned only if `State` is `Failed`.	String
Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Job ID	String
Tag	Job tag: DocProcess	String
State	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Job creation time	String
QueueId	ID of the queue which the job is in	String
Input	Input file path of the job	Container
Operation	Operation rule	Container

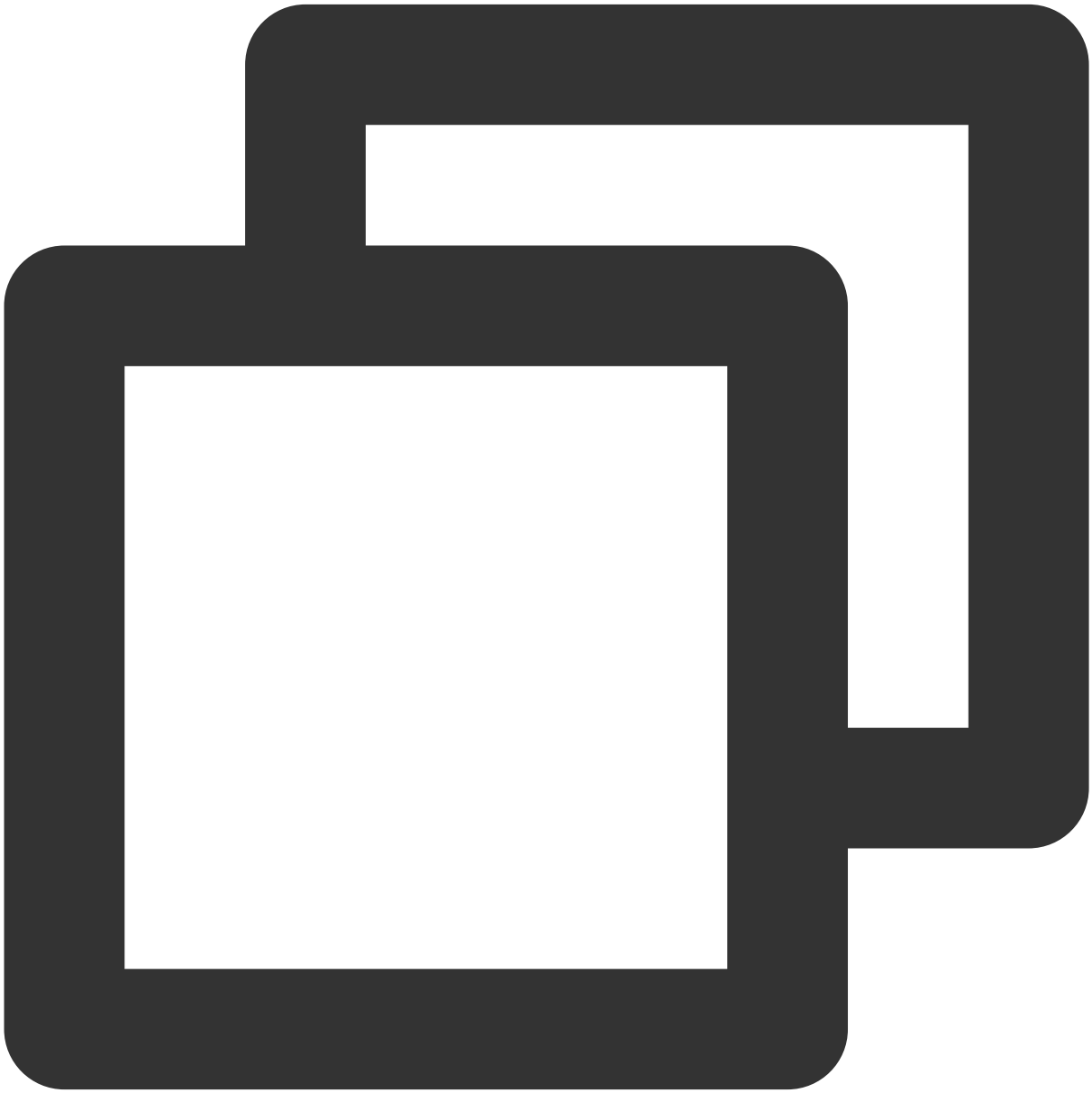
Querying Speech Recognition Job

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Feature description

This API (`ci_get_asr_job`) is used to query a specified speech recognition job.

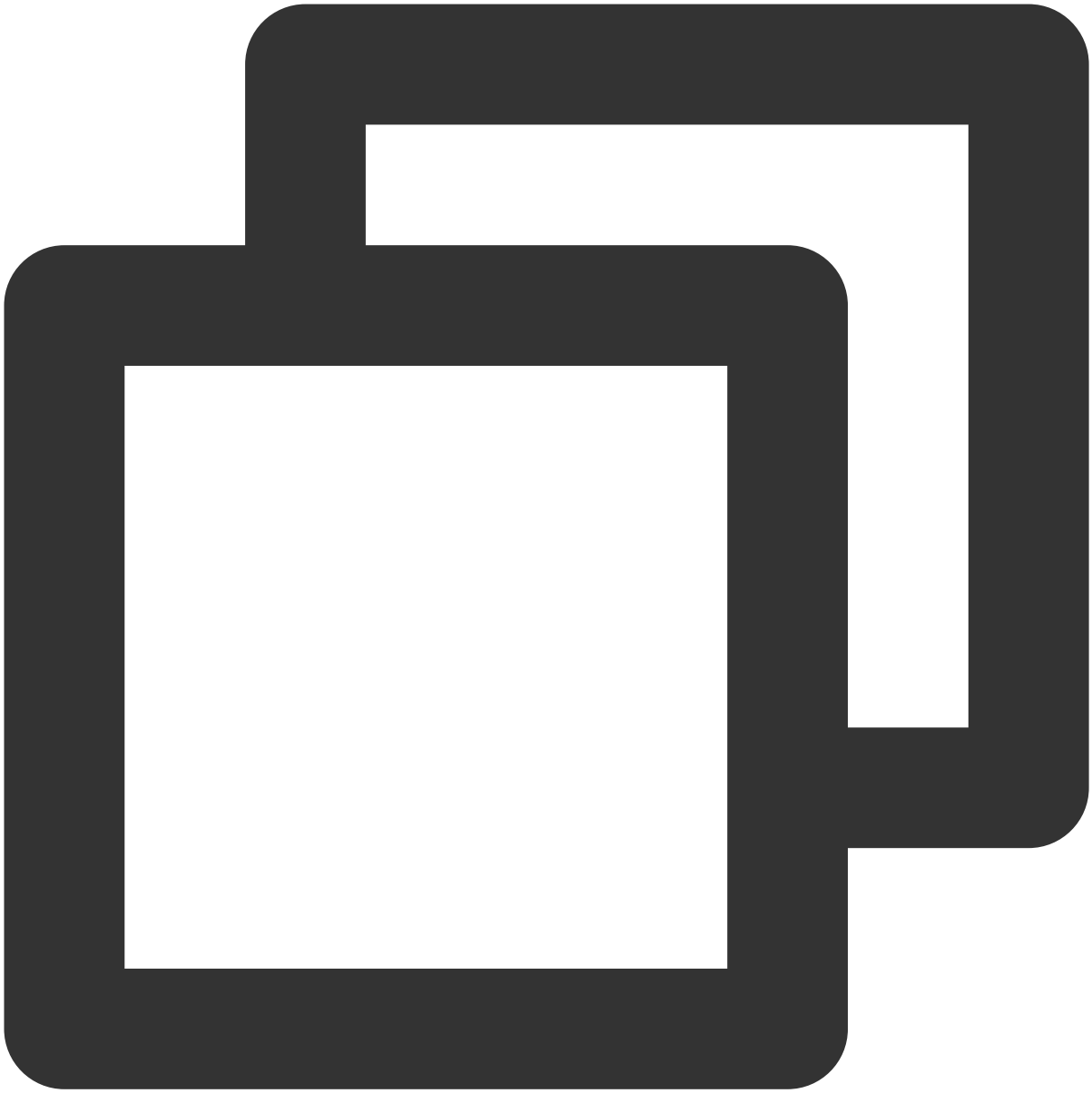
Method prototype



```
def ci_get_asr_job(self, Bucket, JobID, **kwargs):
```

Sample request

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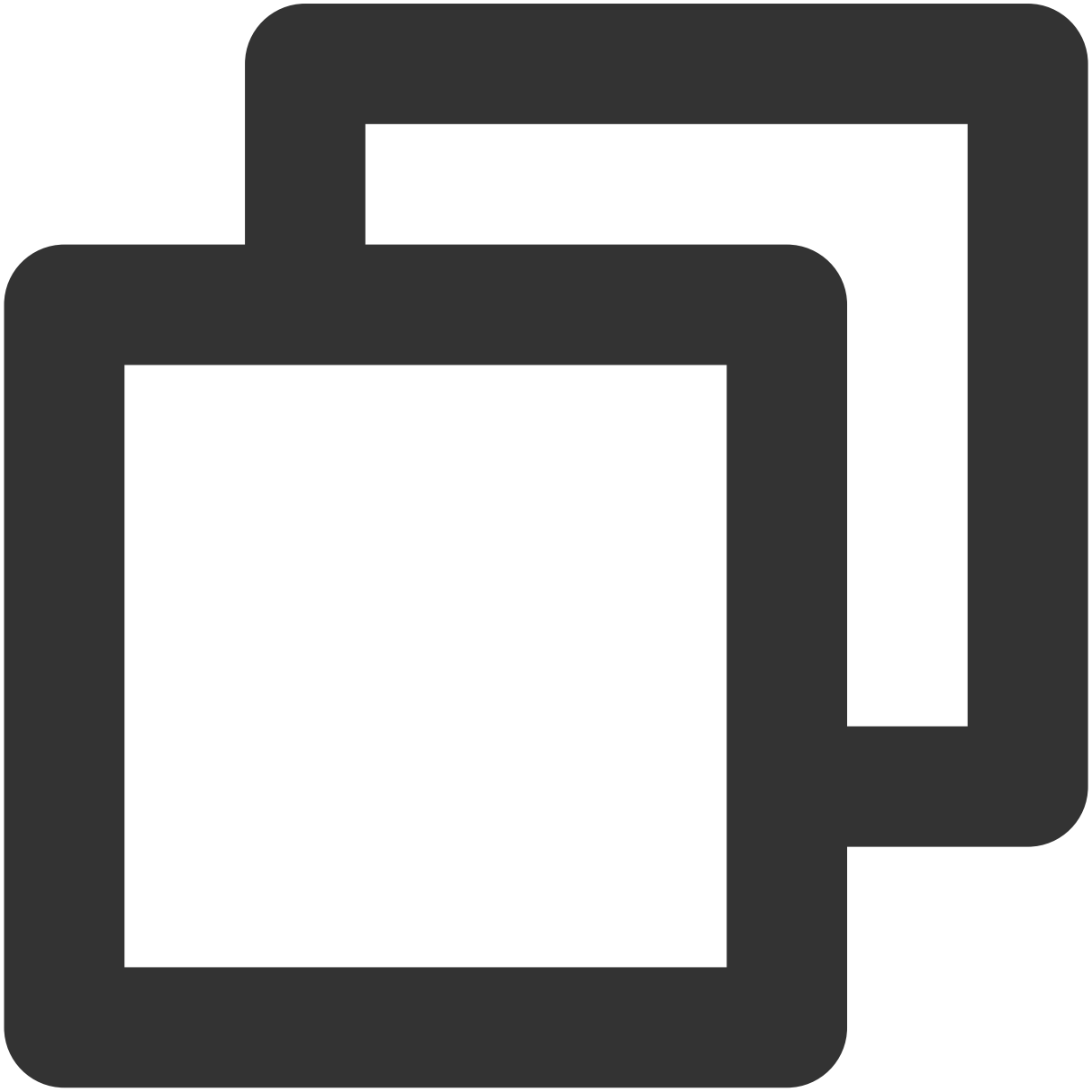
```
def ci_get_asr_jobs():
    # Get the information of a speech recognition job
    response = client.ci_get_asr_job(
        Bucket=bucket_name,
        JobID='s18a9xxxxxxxxxxxxxxxxxxff1aa',
    )
    print(response)
    return response
```

Parameter description

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Parameter	Description	Type
Bucket	Bucket of the object	String
JobID	Speech recognition job ID	String

Response description



```
{
    'JobsDetail': [{
```

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```
        'Code': 'Success',
        'CreationTime': '2022-09-14T22:36:51+0800',
        'EndTime': '2022-09-14T22:37:01+0800',
        'Input': {'BucketId': 'testpic-1253960454', 'Object': 'gaobai.mp4', 'Region
        'JobId': 'sabfb88d6343a11ed8c375fe3d77ef1d7',
        'Message': None,
        'Operation': {
            'JobLevel': '0',
            'Output': {'Bucket': 'testpic-1253960454', 'Object': 'result.txt', 'Reg
            'SpeechRecognitionResult': {
                'AudioTime': '215.637',
                'ObjectName': 'result.txt',
                'Result': '[0:0.160,1:0.640]  Test test\\n', 'ResultDetail': None
            },
            'TemplateId': 't1ada6f282d29742db83244e085e920b08',
            'TemplateName': 'name'
        },
        'QueueId': 'p7369ebcf8f93414c8250c9663e1dff5a',
        'StartTime': '2022-09-14T22:36:53+0800',
        'State': 'Success',
        'Tag': 'SpeechRecognition'
    }]
}
```


Parameter	Description	Type
JobsDetail	Job details, which is the same as `Response.JobsDetail` in the `CreateSpeechRecognitionJobs` API.	Container
NonExistJobIds	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String

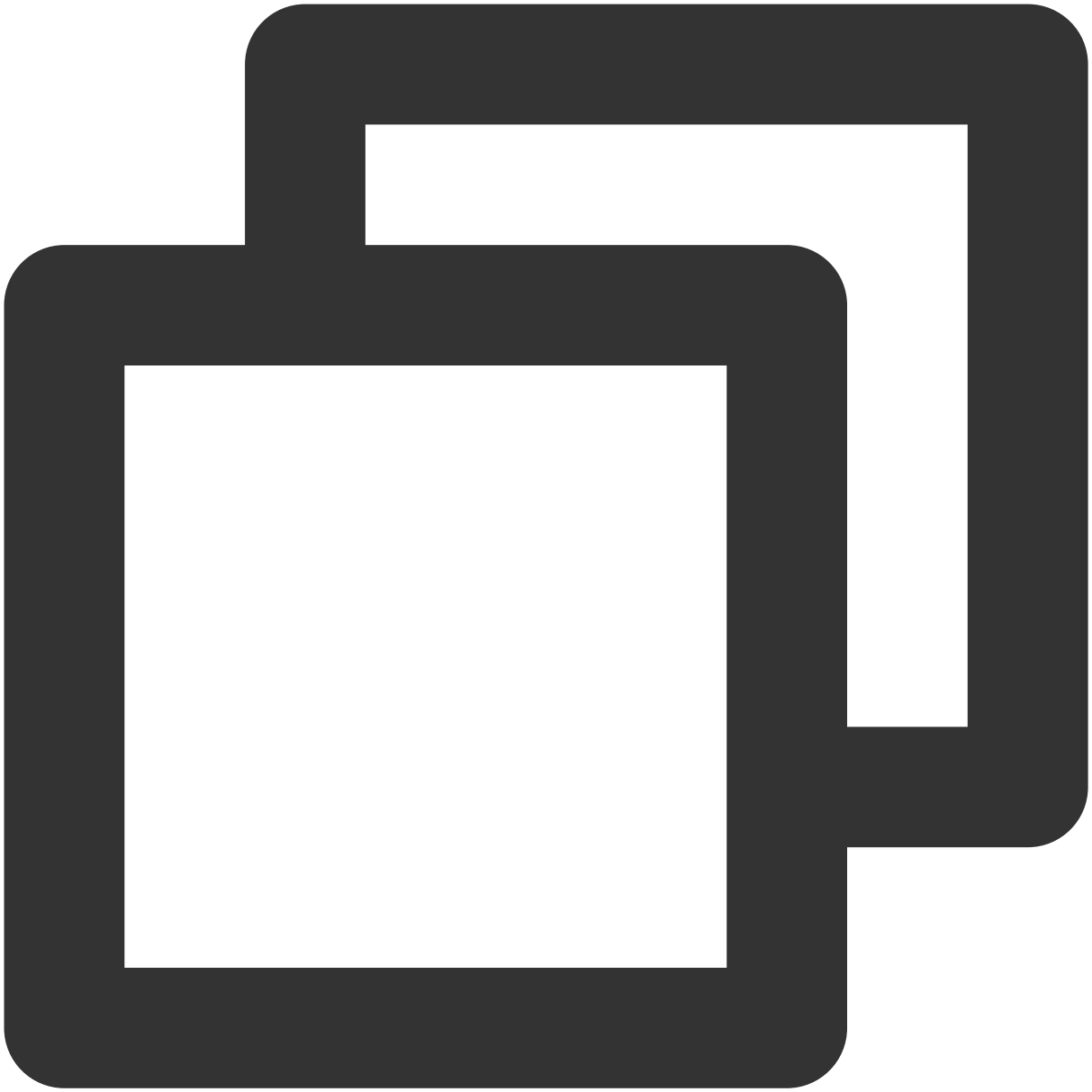
Pulling Eligible Speech Recognition Jobs

Feature description

The API (`ci_list_doc_jobs`) is used to pull speech recognition jobs that meet specified conditions.

Method prototype

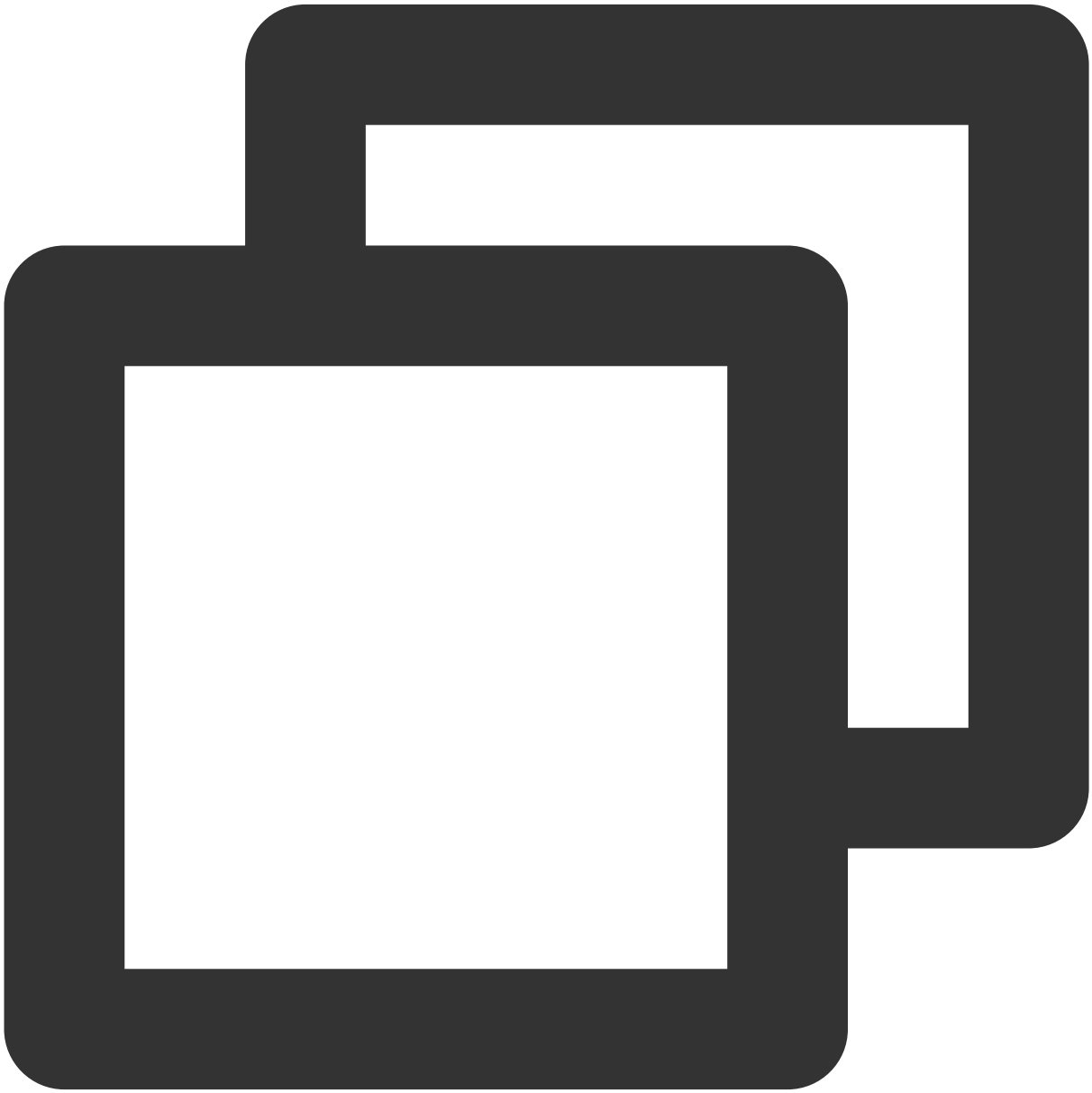
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```
def ci_list_asr_jobs(self, Bucket, QueueId, StartCreationTime=None, EndCreationTime
```

Sample request

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```
def ci_list_asr_jobs():
    # Get the list of speech recognition jobs
    response = client.ci_list_asr_jobs(
        Bucket=bucket_name,
        QueueId='p4bdxxxxxxxxxxxxxxxxxxx57f1',
        Size=10,
    )
    print(response)
    return response
```

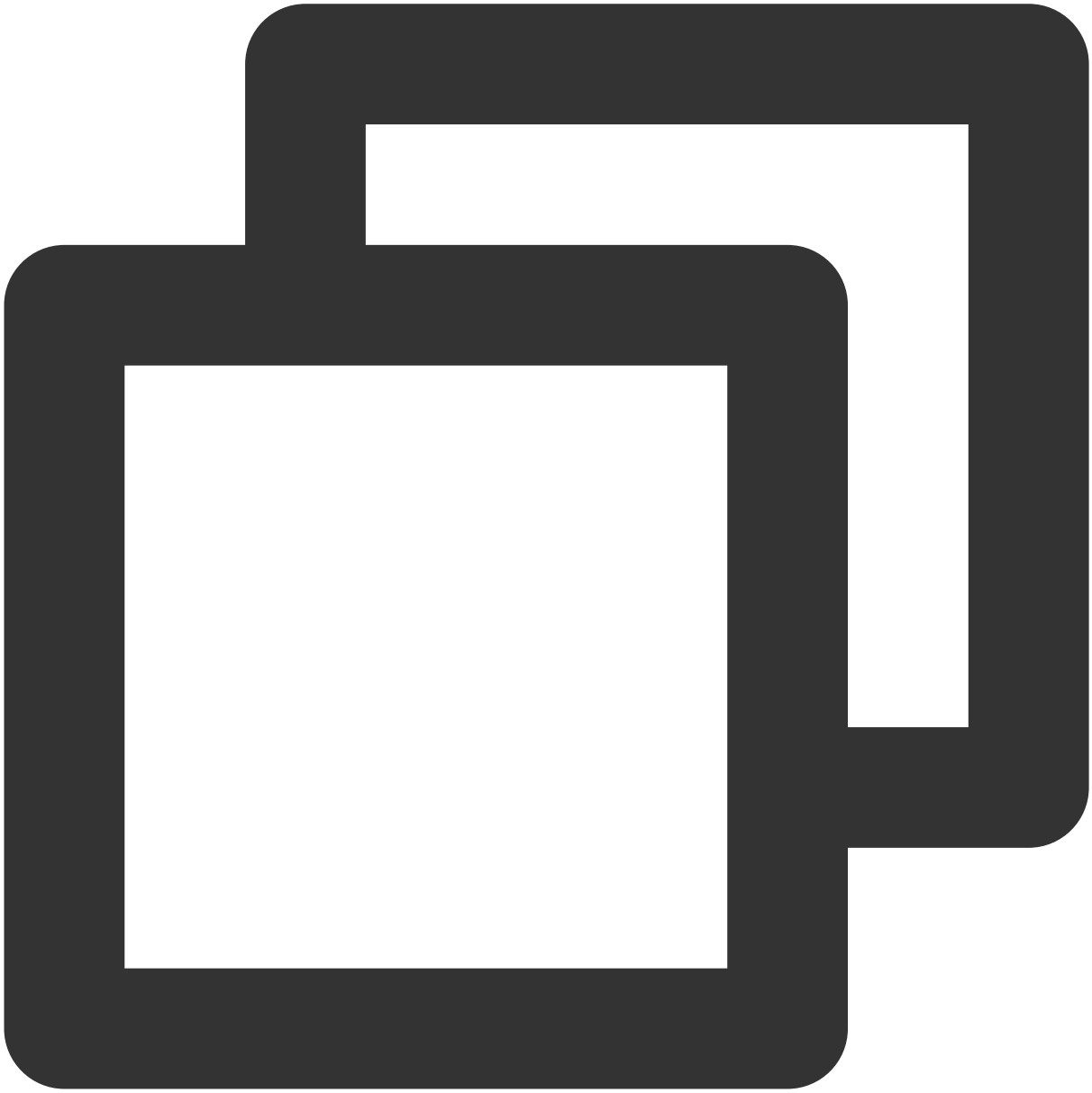
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Parameter description

Parameter	Description	Type
Bucket	Bucket of the job	String
QueueId	ID of the queue from which jobs are pulled	String
OrderByTime	`Desc` (default) or `Asc`	String
NextToken	Context token for pagination	String
Size	Maximum number of jobs that can be pulled. The default value is `10`. The maximum value is `100`.	Int
States	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
StartCreationTime	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String
EndCreationTime	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String

Response description

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```
{
    'JobsDetail': [{
        'Code': 'Success',
        'CreationTime': '2022-09-14T22:36:51+0800',
        'EndTime': '2022-09-14T22:37:01+0800',
        'Input': {'BucketId': 'test-125396xxxx', 'Object': 'gaobai.mp4', 'Region':
        'JobId': 'sabfb88d6343a11ed8c375fe3dxxxxxxx',
        'Message': None,
        'Operation': {
            'JobLevel': '0',
            'Output': {'Bucket': 'test-125396xxxx', 'Object': 'result.txt', 'Region
```

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```
            'SpeechRecognitionResult': {
                'AudioTime': '215.637',
                'ObjectName': 'result.txt',
                'Result': '[0:0.160,1:0.640]  Test test.\\n',
                'ResultDetail': None
            },
            'TemplateId': 't1ada6f282d29742db83244e085xxxxxx',
            'TemplateName': 'name'
        },
        'QueueId': 'p7369ebcf8f93414c8250c966xxxxxxx',
        'StartTime': '2022-09-14T22:36:53+0800',
        'State': 'Success',
        'Tag': 'SpeechRecognition'
    }],
    'NextToken': '15966'
}
```


Parameter	Description	Type
JobsDetail	Job details, which is the same as `Response.JobsDetail` in the `CreateSpeechRecognitionJobs` API.	Container
NextToken	Context token for pagination	String

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Speech Recognition Bucket APIs

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for querying the enablement status of speech recognition.

API	Description
Querying the enablement status of speech recognition	Queries whether the speech recognition feature has been enabled for a bucket.

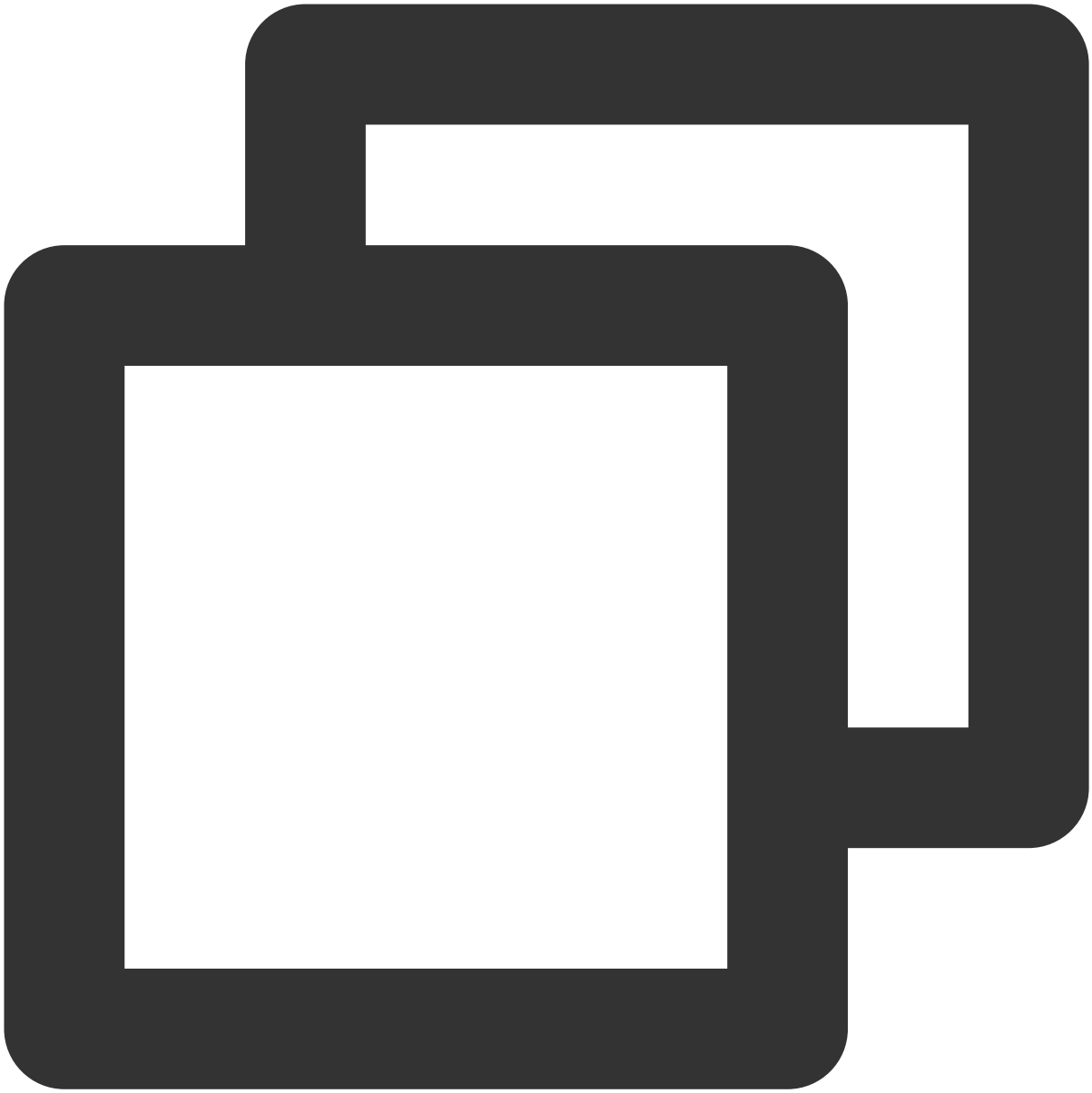
Querying the Enablement Status of Speech Recognition

Feature description

This API (`ci_get_asr_bucket`) is used to query whether the speech recognition feature has been enabled for a bucket.

Method prototype

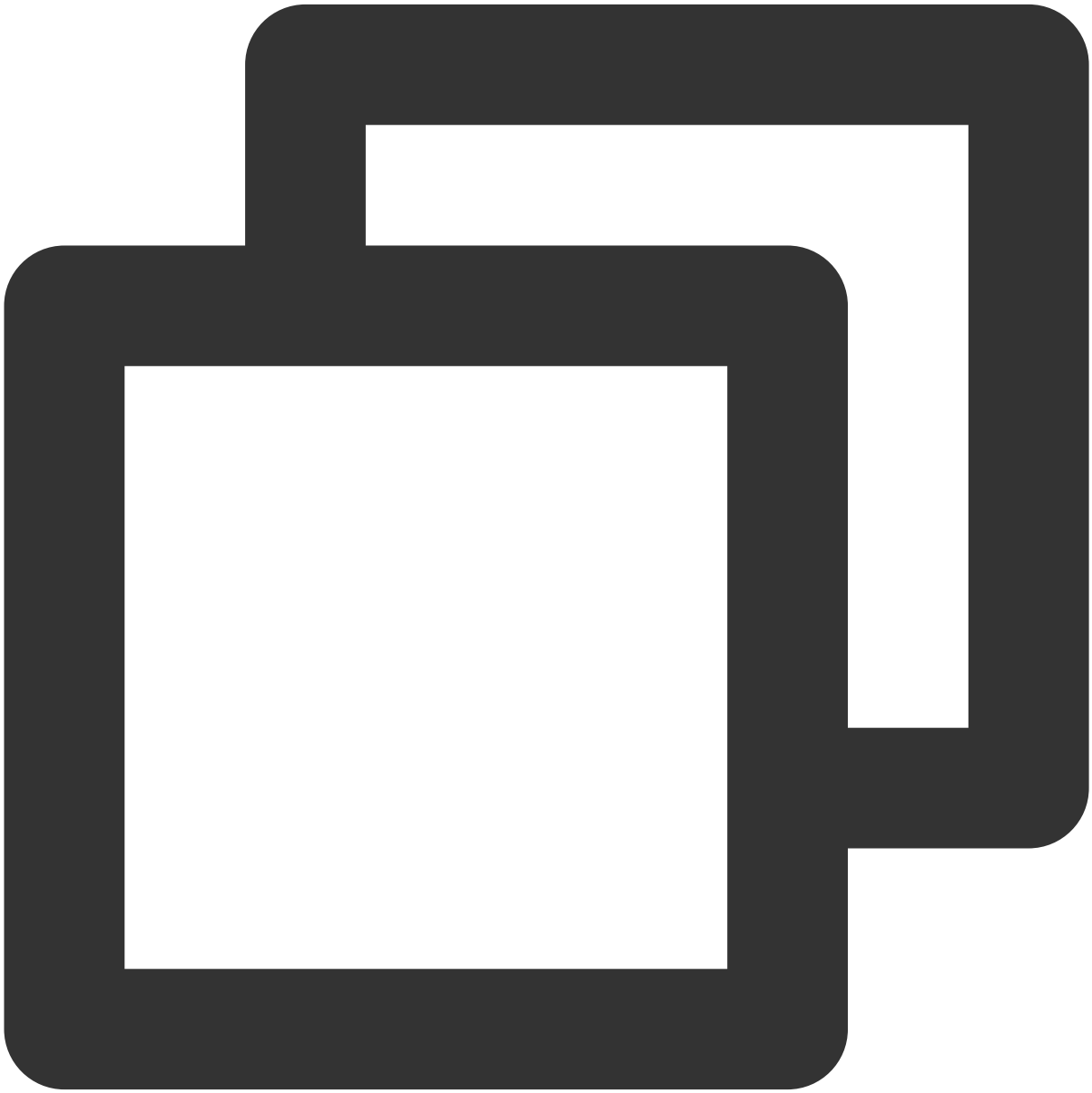
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```
def ci_get_asr_bucket(self, Regions='', BucketName='', BucketNames='', PageNumber='
```

Sample request

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```
def ci_get_asr_bucket():
    # Query the enablement status of speech recognition
    response = client.ci_get_asr_bucket(
        Regions=region,
        # BucketName='demo',
        BucketNames=bucket_name,
        PageSize=1,
        PageNumber=1
    )
    print(response)
    return response
```

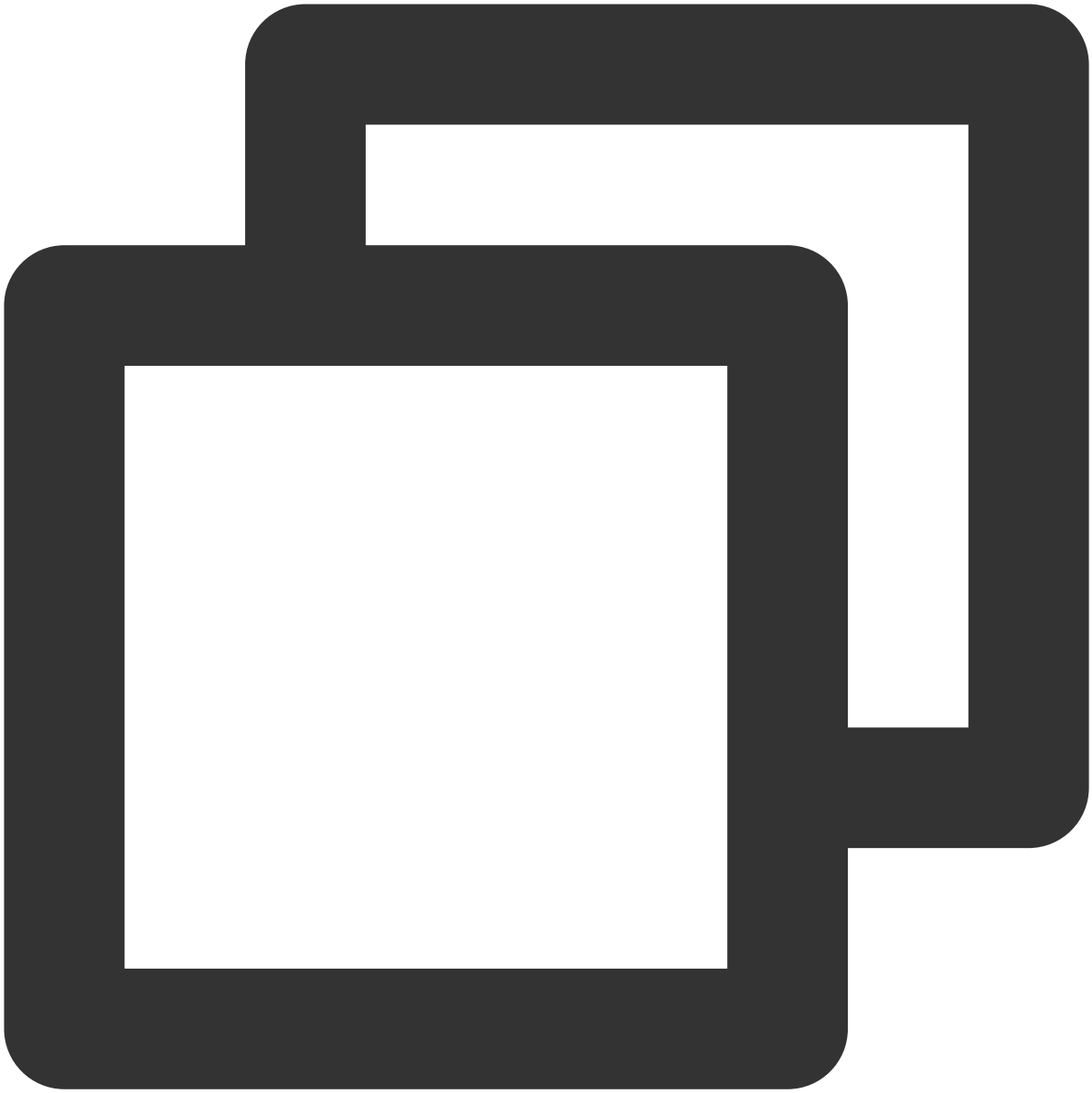
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Parameter description

Parameter	Description	Type
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
BucketNames	Bucket name. Separate multiple bucket names by comma. Exact search is supported.	string
BucketName	Bucket name prefix. Prefix search is supported.	string
PageNumber	Page number.	int
pageSize	Number of entries per page.	int

Response description

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```
{
    'TotalCount': '1',
    'RequestId': 'NjMyMWE2ZjZfZWM0YTYyNjRxxxxxxxxxxxx',
    'PageNumber': '1',
    'PageSize': '1',
    'AsrBucketList': [{
        'Name': 'test-125xxxxxxx',
        'CreateTime': '2022-08-11T00:00:00+0800',
        'Region': 'ap-chongqing',
        'AliasBucketId': None,
        'BucketId': 'test-125xxxxxxxx'
```

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```
    }]
}
```

Parameter	Description	Type
RequestId	Unique ID of the request	string
TotalCount	Total number of buckets with speech recognition enabled	int
PageNumber	Current page number, which is the same as `pageNumber` in the request.	int
PageSize	Number of entries per page, which is the same as `pageSize` in the request.	int
AsrBucketList	List of buckets with speech recognition enabled	Container
BucketId	Bucket ID	string
Name	Bucket name, which is the same as `BucketId` .	string
Region	Region	string
CreateTime	Creation time	string
AliasBucketId	Bucket alias	string

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Queue APIs

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for speech recognition queues.

API	Operation	Description
Querying a speech recognition queue	Queries a speech recognition queue	Querying a speech recognition queue
Updating a speech recognition queue	Updates a speech recognition queue	Updating a speech recognition queue

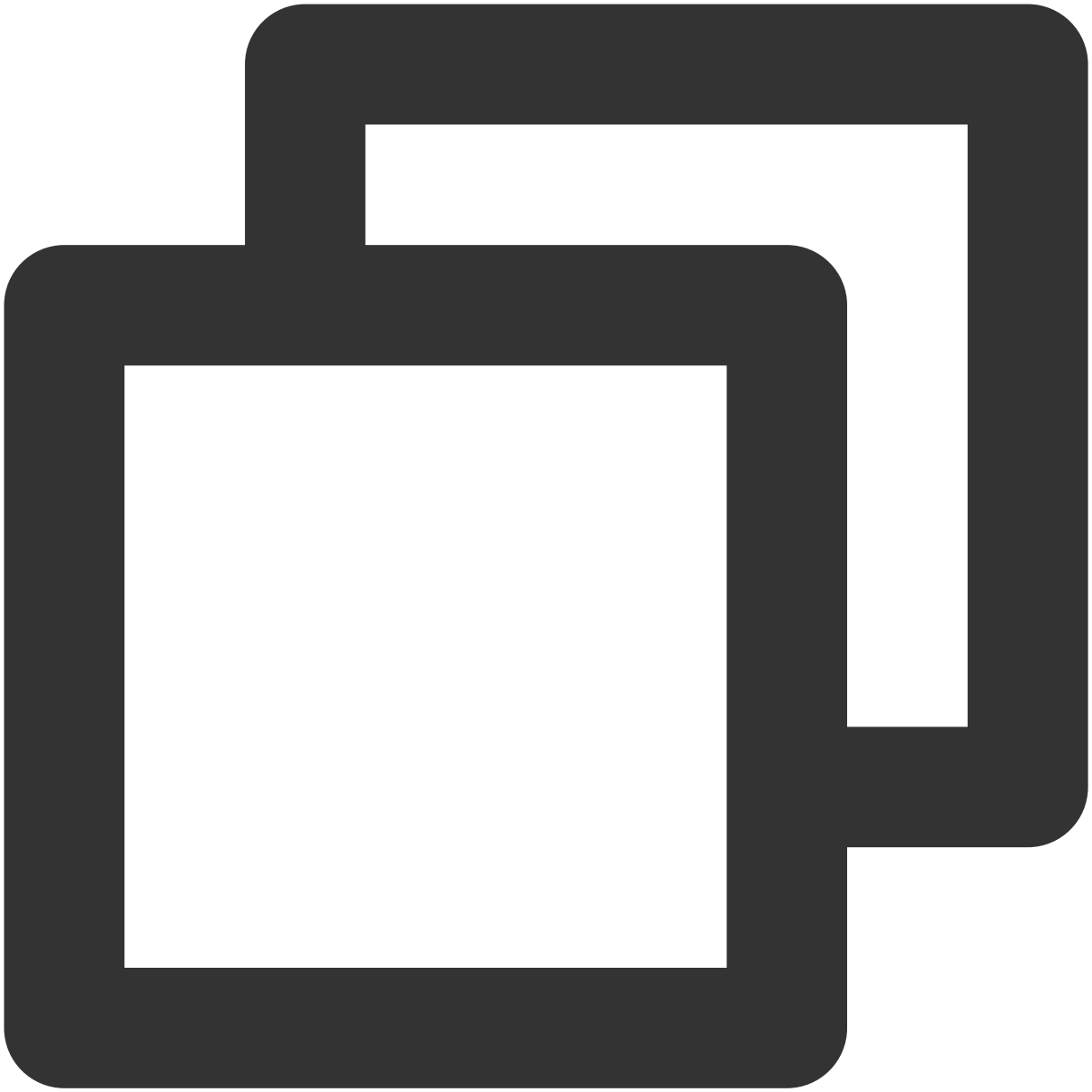
Querying Speech Recognition Queue

Feature description

This API (`ci_get_asr_queue`) is used to query a speech recognition queue.

Method prototype

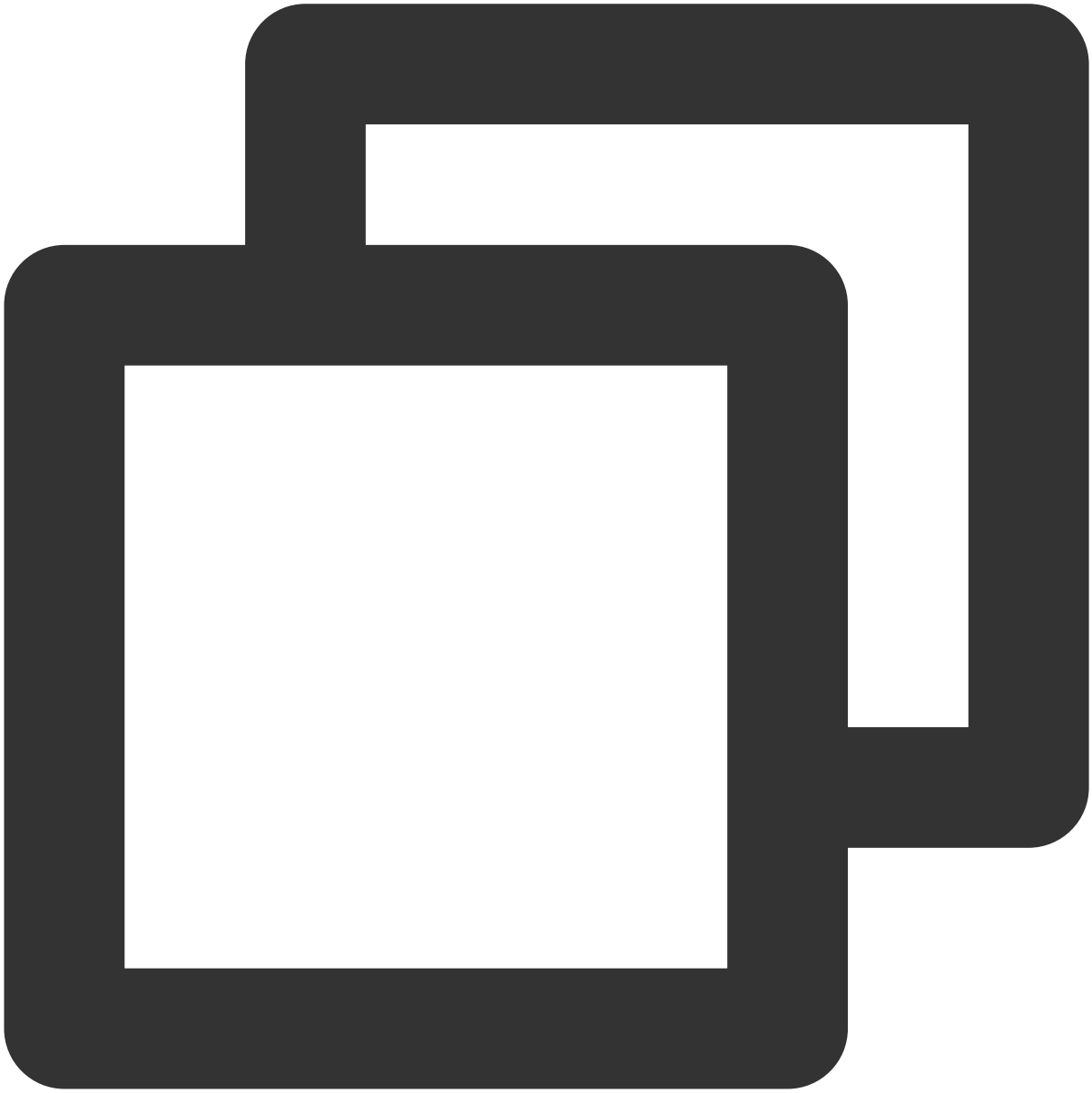
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```
def ci_get_asr_queue(self, Bucket, State='All', QueueIds='', PageNumber='', PageSiz
```

Sample request

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```
def ci_get_asr_queue():
    # Query a speech recognition queue
    response = client.ci_get_asr_queue(
        Bucket=bucket_name,
        PageNumber=1,
        PageSize=1,
    )
    print(response)
    return response
```

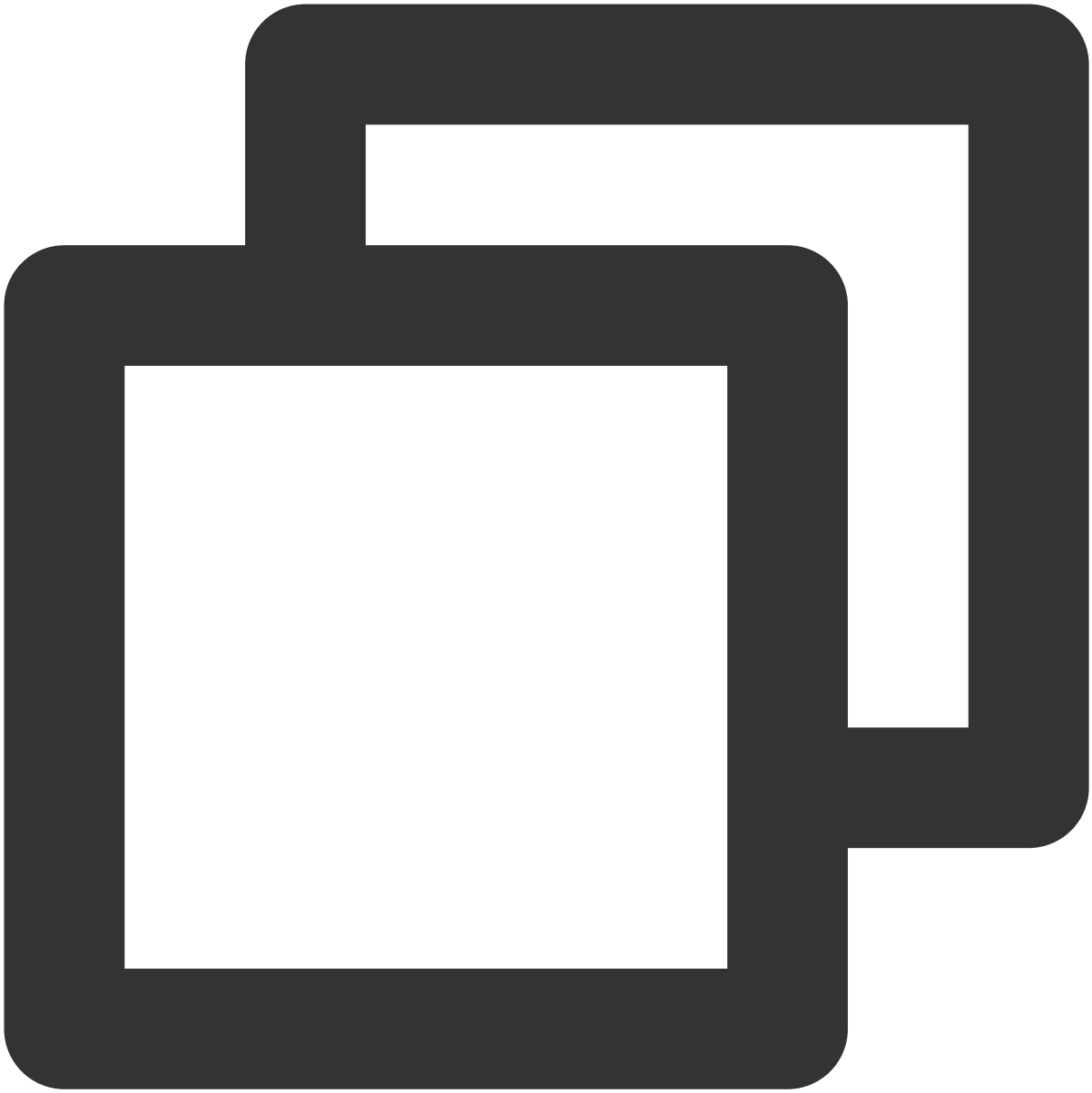
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Parameter description

Parameter	Description	Type
Bucket	Bucket of the queue.	String
QueueIds	Queue ID. If you enter multiple IDs, separate them by comma.	String
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
PageNumber	Page number.	int
PageSize	Number of entries per page.	int

Response description

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```
{
    'TotalCount': '1',
    'RequestId': 'NjMyMWExY2RfMTIwNjxxxxxxxxxxxxxxxxxx',
    'PageNumber': '1',
    'PageSize': '1',
    'QueueList': [{
        'QueueId': 'p4bdf22746bxxxxxxxxxxxxxxxxxxxxx',
        'Name': 'speech-queue',
        'State': 'Active',
        'NotifyConfig': {
            'Url': 'http://www.demo.callback.com',
```

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```
            'Event': 'TaskFinish',
            'Type': 'Url',
            'State': 'On',
            'ResultFormat': 'JSON',
            'MqMode': None,
            'MqName': None,
            'MqRegion': None
        },
        'MaxSize': '10000',
        'MaxConcurrent': '10',
        'CreateTime': '2022-08-11T14:42:01+0800',
        'UpdateTime': '2022-09-14T11:18:08+0800',
        'BucketId': 'test-125xxxxxxxxx',
        'Category': 'Speeching'
    }]
}
```

Parameter	Description	Type
RequestId	Unique ID of the request	String
TotalCount	Total number of queues	Int
PageNumber	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Number of entries per page, which is the same as `pageSize` in the request.	Int
QueueList	Queue array	Container
NonExistPIDs	List of IDs of non-existent queues	String array
QueueId	Queue ID	String
Name	Queue name	String
State	Current status: `Active` or `Paused`.	String
NotifyConfig	Callback configuration	Container
MaxSize	Maximum length of the queue	Int
MaxConcurrent	Maximum number of concurrent jobs in the current queue	Int
UpdateTime	Update time	String
CreateTime	Creation time	String

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Url	Callback address	String
State	Switch status: `On` or `Off`.	String
Type	Callback type: `Url`.	String
Event	The event that triggers the callback	String

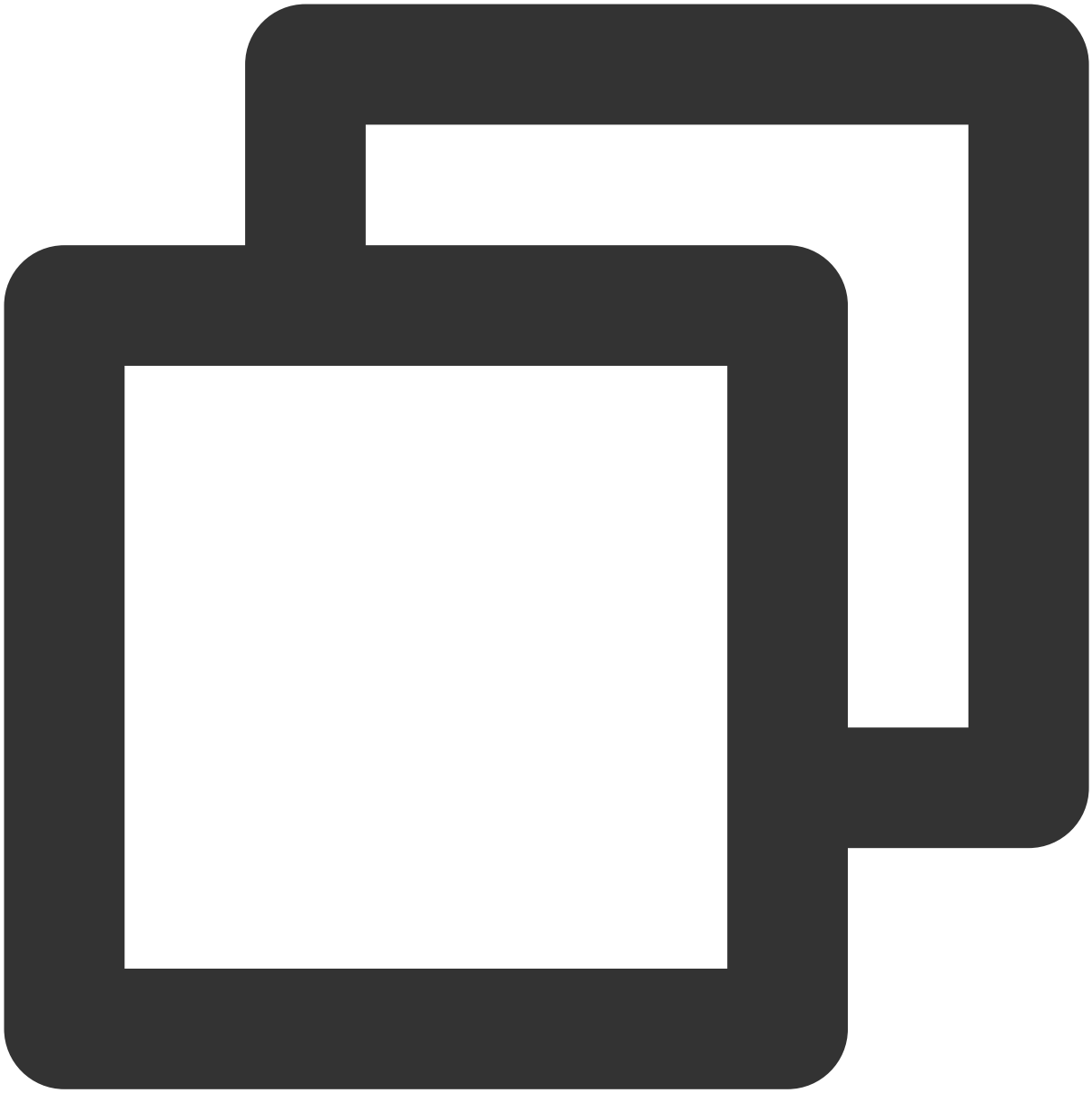
Updating Speech Recognition Queue

Feature description

This API (`ci_update_asr_queue`) is used to update a speech recognition queue.

Method prototype

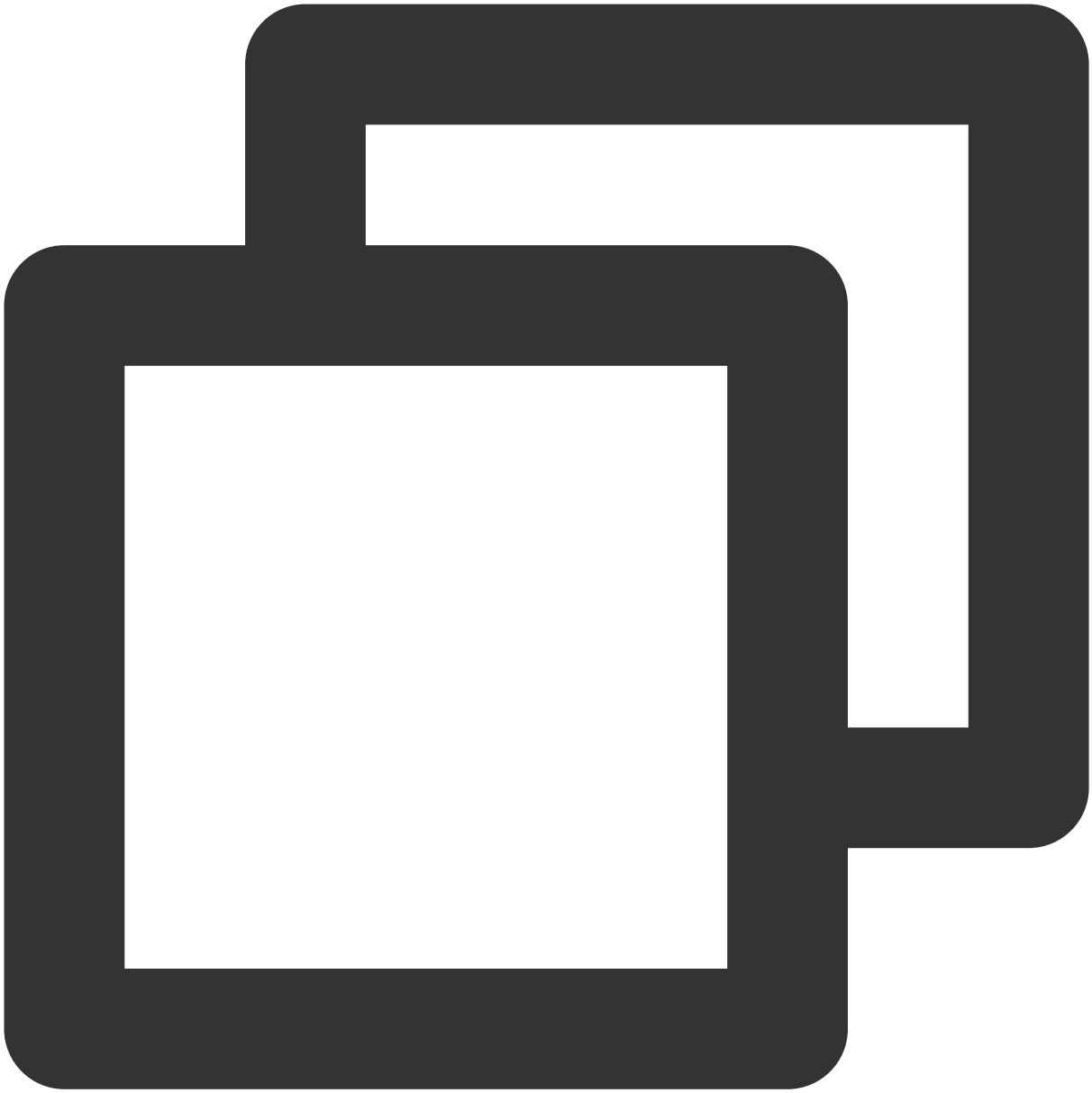
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```
def ci_update_asr_queue(self, Bucket, QueueId, Request={}, **kwargs):
```

Sample request

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```
def ci_put_asr_queue():
    # Update a speech recognition queue
    body = {
        'Name': 'speech-queue',
        'QueueID': 'p4bdf22xxxxxxxxxxxxxxxxxxxxxxxxf1',
        'State': 'Active',
        'NotifyConfig': {
            'Type': 'Url',
            'Url': 'http://www.demo.callback.com',
            'Event': 'TaskFinish',
            'State': 'On',
```

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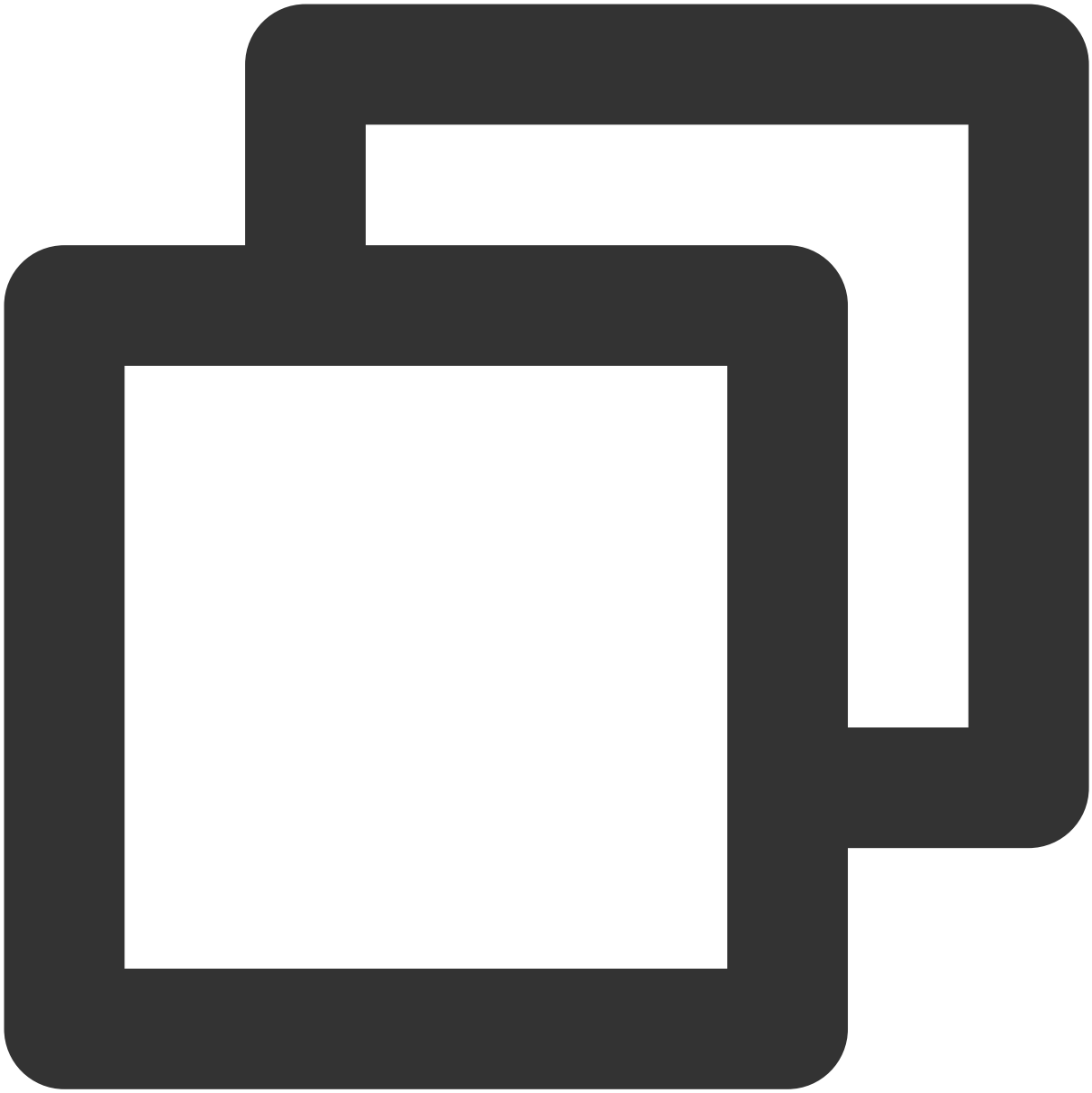
```
            'ResultFormat': 'JSON'
        }
    }
    response = client.ci_update_asr_queue(
        Bucket=bucket_name,
        QueueId='p4bdf22xxxxxxxxxxxxxxxxxxxxxxxf1',
        Request=body,
        ContentType='application/xml'
    )
    print(response)
    return response
```

Parameter description

Parameter	Description	Type
Bucket	Bucket name	String
Name	Queue name	String
QueueID	Queue ID	String
Request	Request body of the updated queue configuration	String

Response description

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```
{
    'RequestId': 'NjMyMWEzMTFfZWMxxxxxxxxxxxxxxxxxxxx',
    'Queue': [{
        'QueueId': 'p4bdf22746b0xxxxxxxxxxxxxxxxx',
        'Name': 'speech-queue',
        'State': 'Active',
        'NotifyConfig': {
            'Url': 'http://www.demo.callback.com',
            'Event': 'TaskFinish',
            'Type': 'Url',
            'State': 'On',
```

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```
            'ResultFormat':
            'JSON',
            'MqMode': None,
            'MqName': None,
            'MqRegion': None
        },
        'MaxSize': '10000',
        'MaxConcurrent': '10',
        'CreateTime': '2022-08-11T14:42:01+0800',
        'UpdateTime': '2022-09-14T11:18:08+0800',
        'BucketId': 'test-125xxxxxxxxxx',
        'Category': 'Speeching'
    }]
}
```

Parameter	Description	Type
RequestId	Unique ID of the request	dict
Queue	Queue information. For more information, see `QueueList` in Querying Speech Recognition Queue.	dict

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Image QR Code

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for image QR codes.

API	Description
QR code recognition	Recognizes the location and content of valid QR codes in an image, outputs the text information (URL or text) contained in the QR codes, and pixelates the recognized QR codes.

QR Code Recognition

The QR code recognition feature recognizes the location and content of valid QR codes in an image, outputs the text information (URL or text) contained in the QR codes, and pixelates the recognized QR codes.

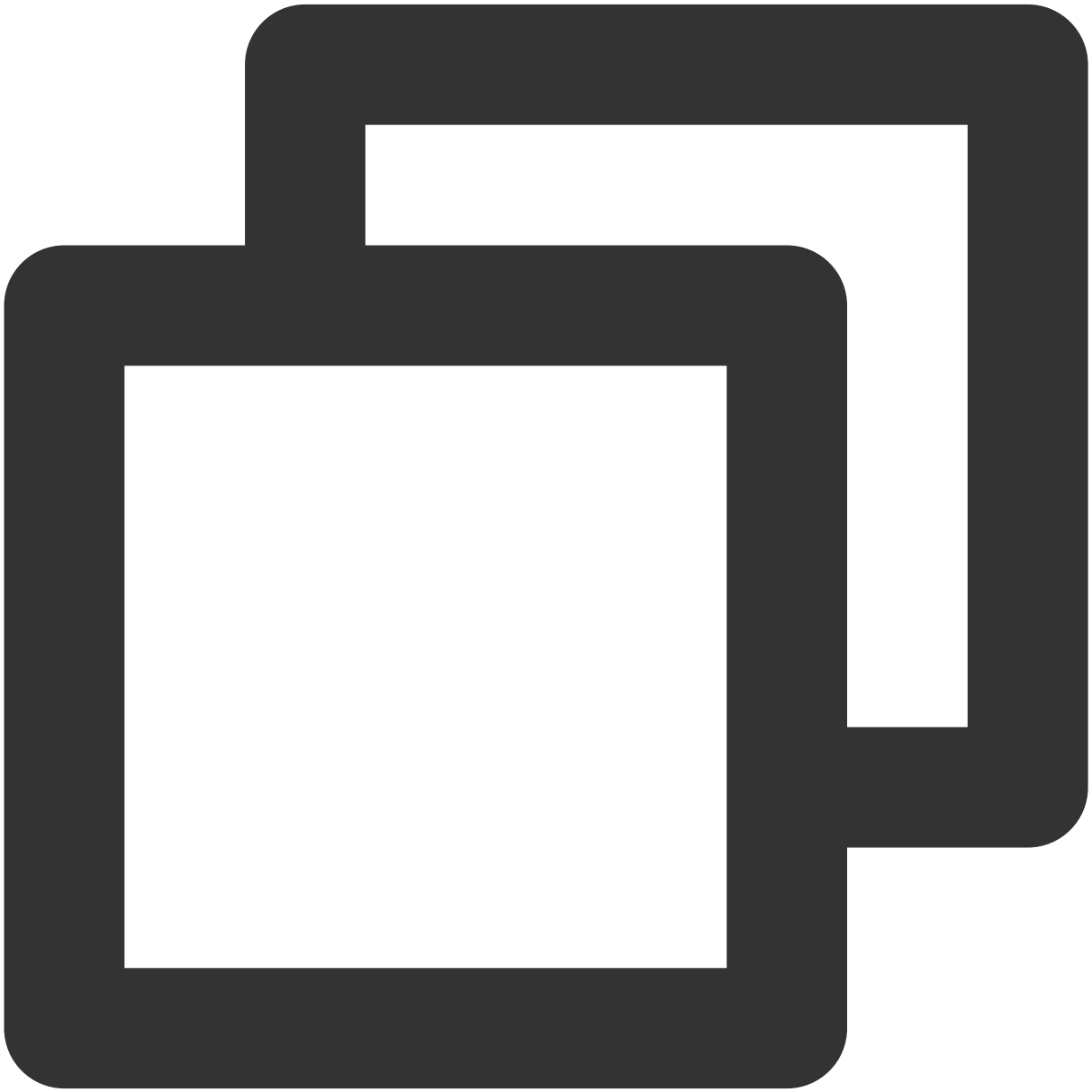
Recognizing QR code during upload

Feature description

The request for recognizing QR codes during image upload is the same as that used to simply upload a file to COS, except that you need to add the image processing parameter `Pic-Operations` to the request header.

Sample code

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```
# Create a COS client
example_object = 'example_object.jpg'
with open(example_object, 'rb') as fp:
    opts = '{"is_pic_info":1,"rules":[{"fileid":"format.jpg","rule":"QRcode/cov
    response,data = client.ci_put_object_from_local_file_and_get_qrcode(
        Bucket='example-bucket-123456789',
        LocalFilePath=example_object,
        Key='example_key',
        EnableMD5=False,
        PicOperations=opts
    )
```

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```
        # View the response information and read the specified data as needed
        print(response,data)
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID`	String	Yes
LocalFilePath	Image path	String	Yes
Key	Unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	String	Yes
EnableMD5	Specifies whether the SDK needs to calculate the `Content-MD5` checksum. It is disabled by default. The upload will take longer if it is enabled.	Bool	No
PicOperations	CI image processing parameters. For more information, see QR Code Recognition.	String	Yes

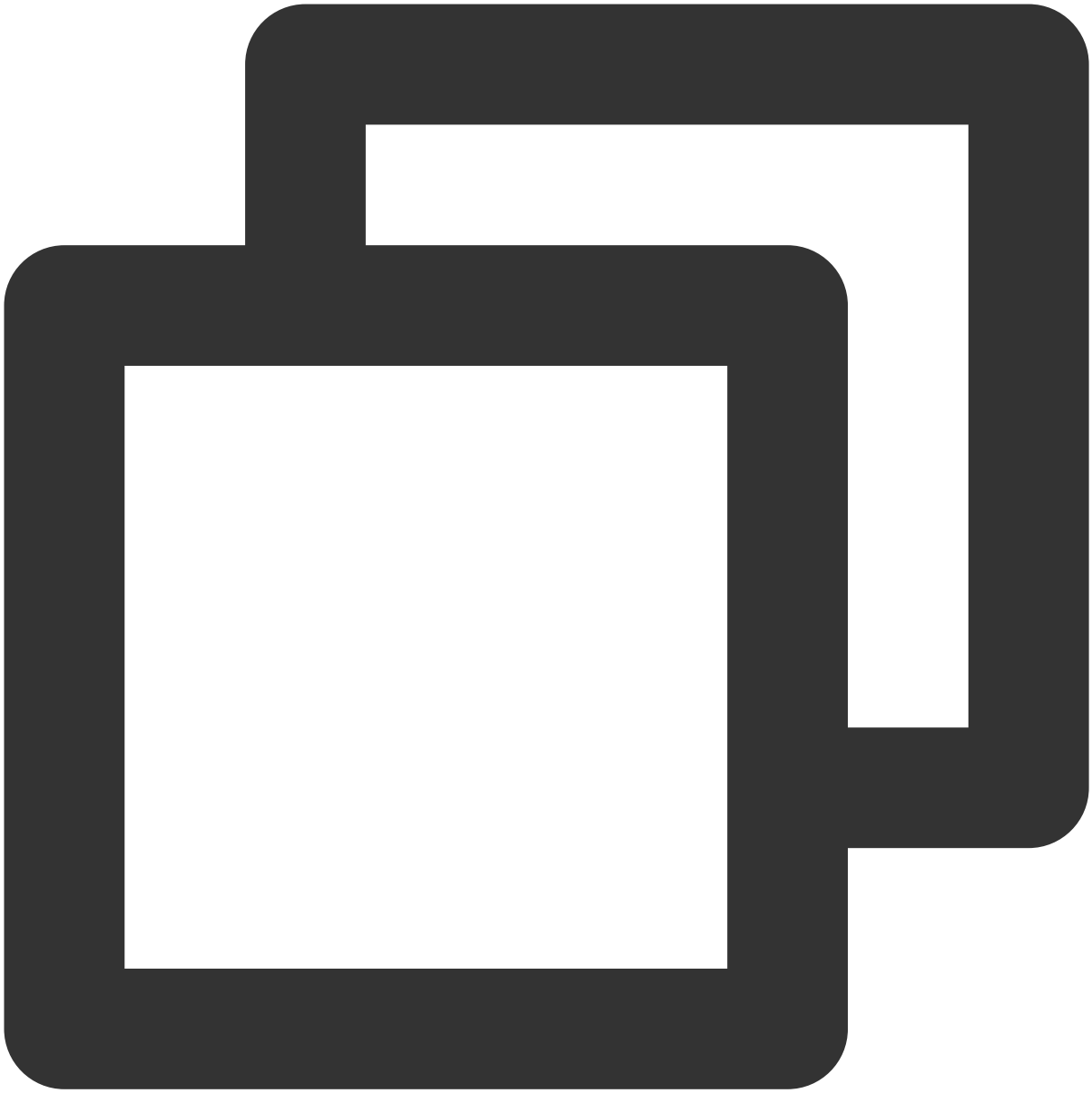
Recognizing QR code in the cloud

Feature description

This feature recognizes QR codes in an image stored in the cloud and returns the recognition result.

Sample code

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```
# Create a COS client
response,data = client.ci_get_object_qrcode(
    Bucket='example_bucket-123456789',
    Key='example_object',
    Cover=0
)
# View the response information and read the specified data as needed
print(response,data)
```

Parameter description

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Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID`	String	Yes
Key	Unique identifier of the object in the bucket. For example, if an object's access endpoint is `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com/doc/pic.jpg`, its key is `doc/pic.jpg`.	String	Yes
Cover	Whether to pixelate QR codes. For more information, see QR Code Recognition.	Int	Yes

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File Processing
File Transcoding

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for file preview.

API	Operation	Description
CreateDocProcessJobs	Submitting file preview job	Submits file preview job.
DescribeDocProcessJob	Querying file preview job	Queries specified file preview job.
DescribeDocProcessJobs	Pulling file preview jobs	Pulls eligible file preview jobs.

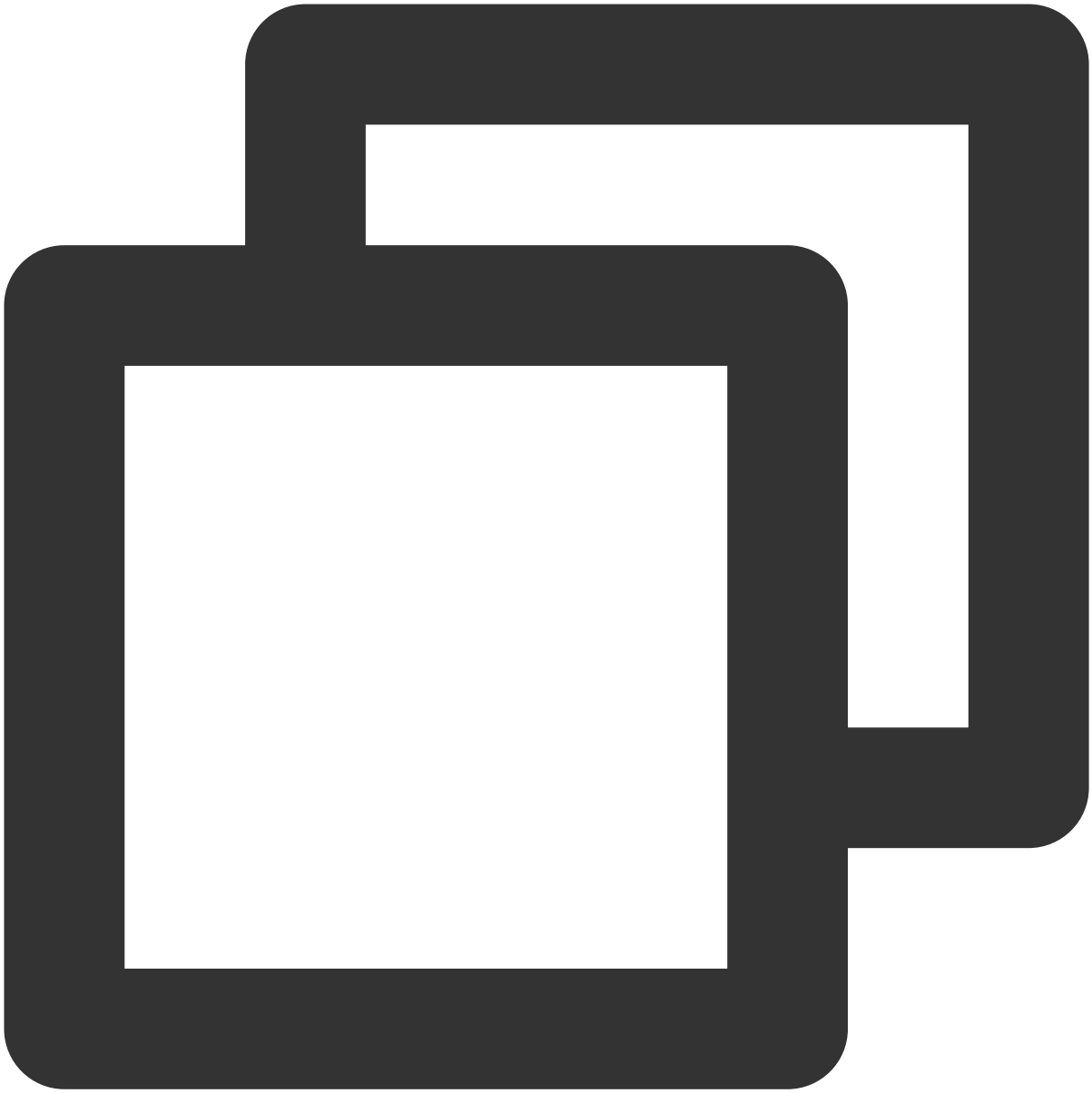
Submitting File Preview Job

Feature description

This API (`ci_create_doc_job`) is used to submit a file preview job.

Sample code

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```
    response = client.ci_create_doc_job(
                    Bucket="examplebucket-1250000000",
                    QueueId='pbbbcc56b344e422da78c984be45*****',
                    InputObject='normal.pptx',
                    OutputBucket="examplebucket-1250000000",
                    OutputRegion='ap-chongqing',
                    OutputObject='/test_doc/normal/abc_${Number}.jpg',
                )
     print(response)
     return response
```

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Parameter description

To call the `ci_create_doc_job` function, the specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
QueueId	Queue ID of the job.	String	Yes
InputObject	File URL in COS.	String	Yes
OutputBucket	Result storage bucket.	String	Yes
OutputRegion	Result storage bucket region.	String	Yes
OutputObject	Output file path. **For non-spreadsheet files, the output file name must include the `${Number}` or `${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.	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
TgtType	Type of the output target file. Valid values: png, jpg, 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	Starts conversion from page X. A spreadsheet file may be split into	Int	No

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	multiple pages, with multiple images generated, and `StartPage` indicates to start the conversion from page X of the specified `SheetId`. Default value: 1.		
EndPage	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
SheetId	Sheet parameter, indicating to convert the xth sheet. Default value: 0 (converting all sheets).	Int	No
PaperDirection	Paper orientation of the spreadsheet. 0: vertical; other values: horizontal. Default value: 0.	Int	No
PaperSize	Page (canvas) size. Valid values: 0 (A4), 1 (A2), 2 (A0). Default value: 0.	Int	No
DocPassword	Password to open the Office file. If you need to convert a password-protected file, set this field.	String	No
Comments	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
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
Zoom	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 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	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,	Int	No

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	indicating to output images by page. This parameter will take effect only if `TgtType` is `png` or `jpg`.		

Response parameter description

Calling the `ci_create_doc_jobs` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Submitting File Preview Job.

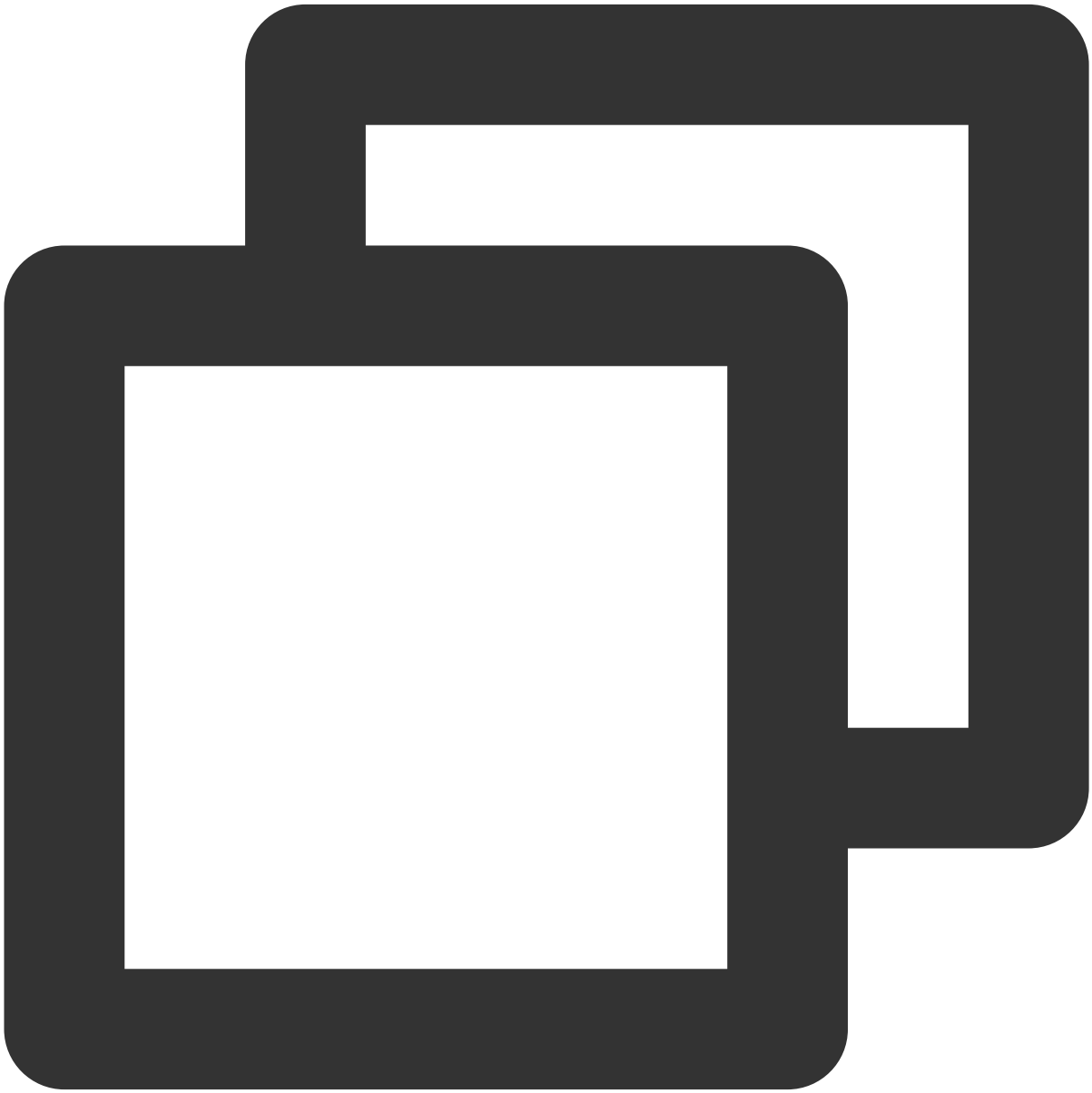
Querying Specified File Preview Job

Feature description

This API (`ci_get_doc_job`) is used to query a specified file preview job.

Sample code

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```
    response = client.ci_get_doc_job(
                    Bucket="examplebucket-1250000000",
                    JobID='d31d414c8c07811ec894cd30d17*****',
                )
    print(response)
    return response
```

Parameter description

To call the `ci_get_doc_job` function, the specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
JobID	Job ID.	String	Yes

Response parameter description

Calling the `ci_get_doc_job` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Querying File Preview Job.

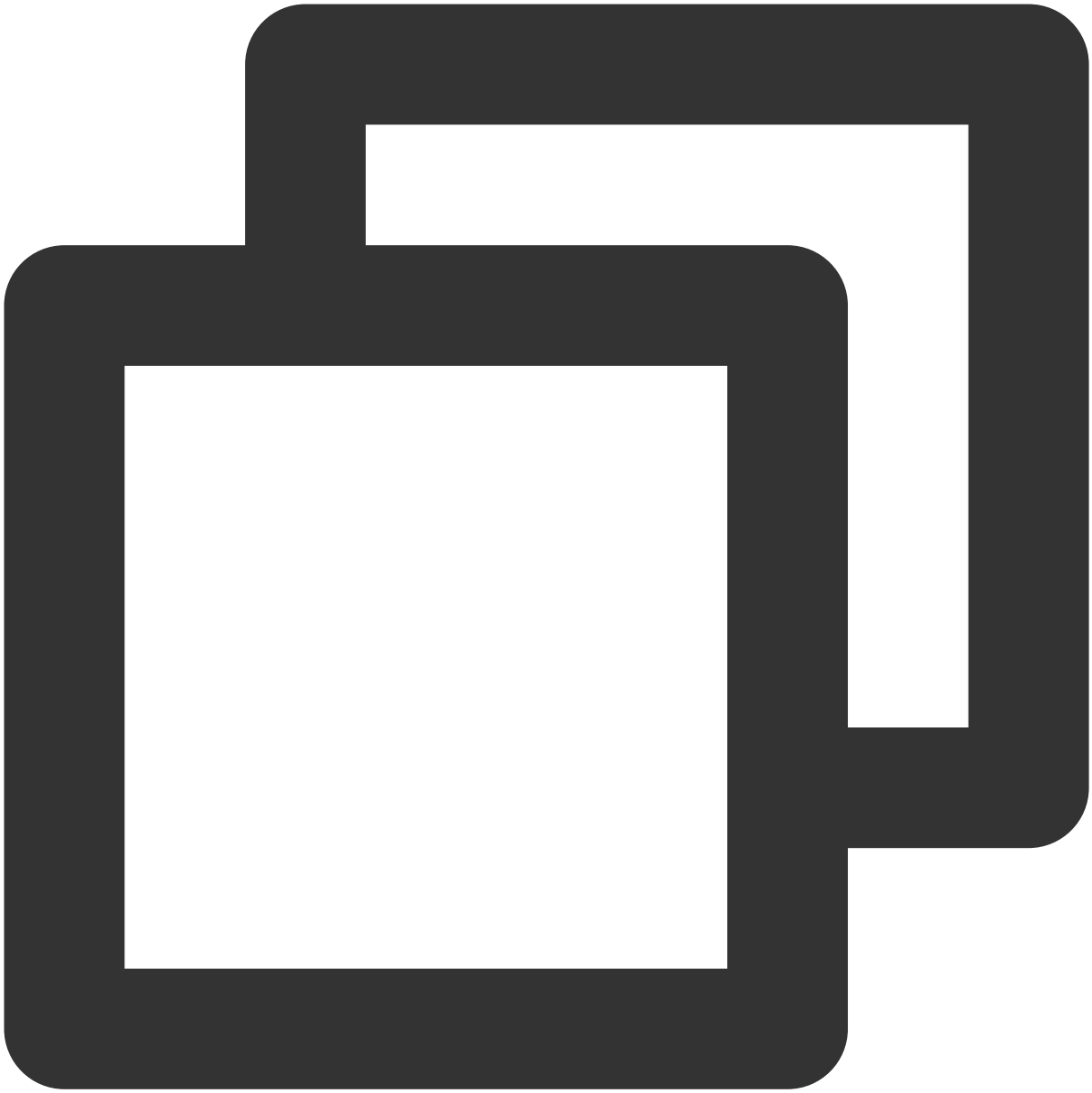
Querying All File Preview Jobs

Feature description

This API (`ci_list_doc_jobs`) is used to query a specified file preview job.

Sample code

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```
    response = client.ci_list_doc_jobs(
                    Bucket="examplebucket-1250000000",
                    QueueId='pbbbcc56b344e422da78c984be45*****',
                )
    print(response)
    return response
```

Parameter description

To call the `ci_list_doc_jobs` function, the specific request parameters are as follows:

Parameter	Description	Type	Required
Bucket	Bucket name.	String	Yes
QueueId	Queue ID of the job.	String	Yes
StartCreationTime	Start time.	String	No
EndCreationTime	End time.	String	No
OrderByTime	Sorting order. Valid values: Desc, Asc. Default value: Desc.	String	No
States	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
Size	Maximum number of jobs that can be pulled. Default value: 10. Maximum value: 100.	String	No
NextToken	Context token for pagination.	String	No

Response parameter description

Calling the `ci_list_doc_jobs` function will convert the XML returned in the API into a `dict` value. For specific response parameters, see Pulling File Preview Job.

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Sync Request API

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for sync requests for file preview.

API	Description
Sync request API	Synchronously requests for file preview.

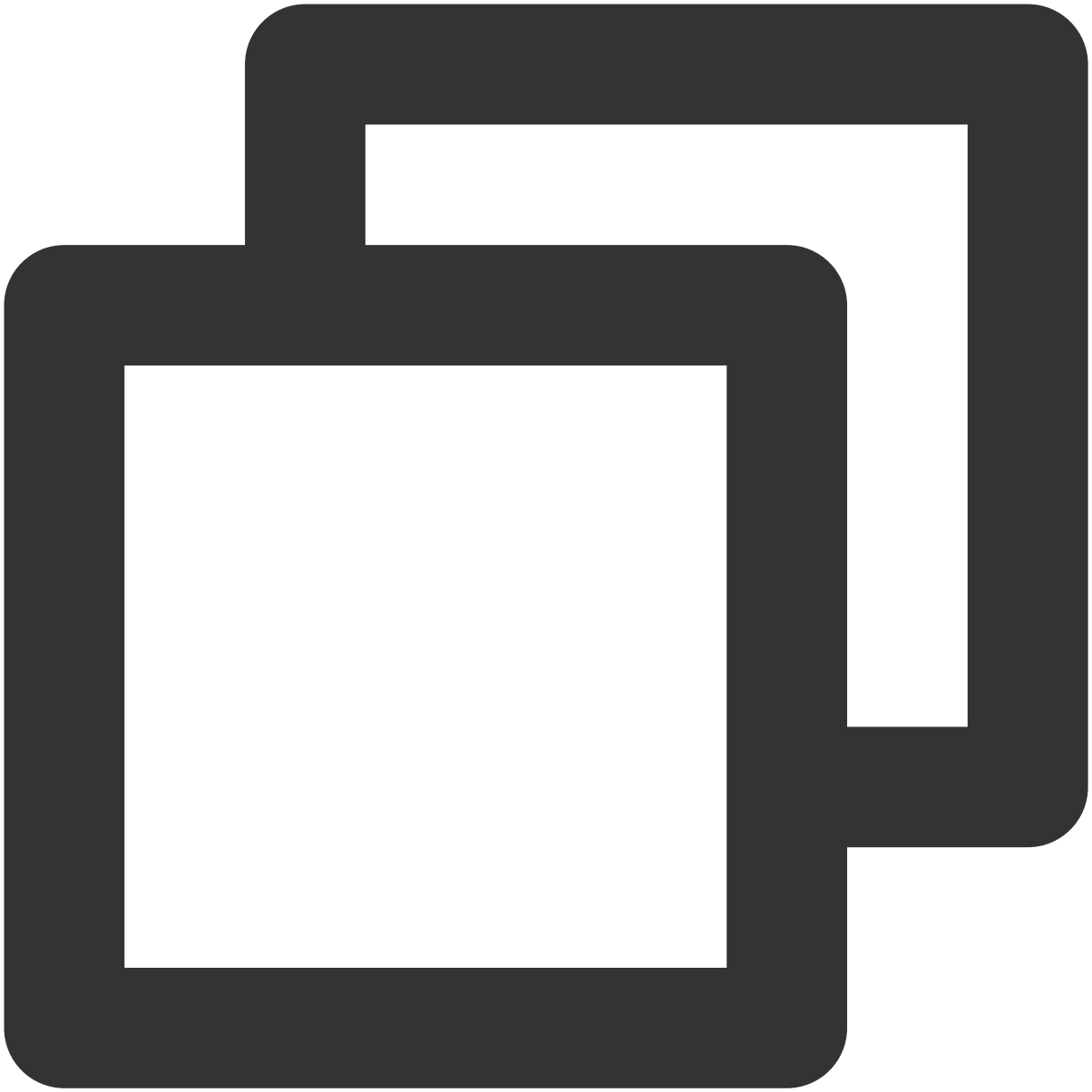
Sync Request API

Feature description

This API is used to synchronously request for file preview.

Method prototype

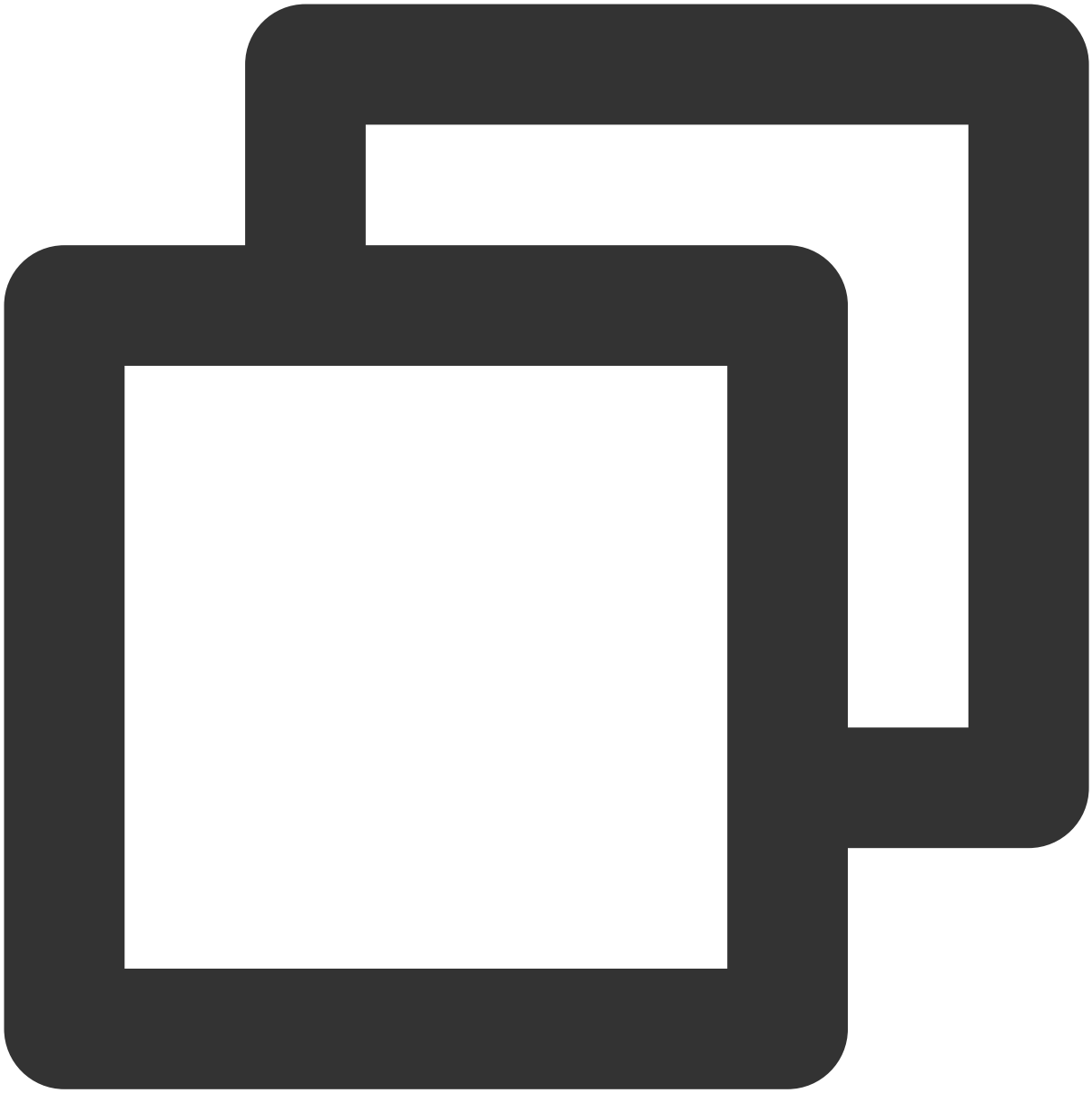
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```
def ci_doc_preview_process(self, Bucket, Key, SrcType=None, Page=None, DstType=
                           ExcelPaperDirection=0, ExcelRow=0, ExcelCol=0, Excel
                           ImageParams=None, Quality=100, Scale=100, ImageDpi=9
```

Sample request

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```
def ci_doc_preview_process():
    # Sync file preview API
    response = client.ci_doc_preview_process(
        Bucket=bucket_name,
        Key='1.txt',
    )
    print(response)
    response['Body'].get_stream_to_file('result.png')
```

Parameter description

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Parameter	Description	Type
Bucket	Bucket of the object	String
Key	Object name, such as `folder/document.pdf` .	String
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
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
DstType	Type of the output target image file. Valid values: `png` , `jpg` , `pdf` . If the input file format cannot be recognized, the `jpg` format will be used by default.	String
Password	Password to open the Office file. If you need to convert a password-protected file, set this field.	String
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
Sheet	Sheet parameter, indicating to convert the xth sheet. Default value: `1` .	int
ExcelPaperDirection	Paper orientation of the spreadsheet. `0` : vertical; other values: horizontal. Default value: `0` .	int
ExcelRow	The value `1` indicates that all rows will be formatted on one page. Default value: `0` .	int
ExcelCol	The value `1` indicates that all columns will be formatted on one page. Default value: `0` .	int
ExcelPaperSize	Page (canvas) size. Valid values: `0` (A4), `1` (A2), `2` (A0). Default value: `0` . This parameter needs to be used together with `excelRow` or `excelCol` .	int
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

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ImageParams	Processing parameters for the output image. All parameters of basic image processing are supported. To specify multiple parameters, separate them with pipeline operators. In this way, the image can be processed by multiple parameters in sequence in the same request.	String
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
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
ImageDpi	Renders the image according to 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

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Async Processing Job APIs

Last updated：2024-03-05 14:18:53

Overview

This document provides an overview of APIs and SDK code samples for file preview jobs.

API	Operation	Description
CreateDocProcessJobs	Submitting file preview job	Submits file preview job.
DescribeDocProcessJob	Querying file preview job	Queries specified file preview job.
DescribeDocProcessJobs	Pulling file preview jobs	Pulls eligible file preview jobs.

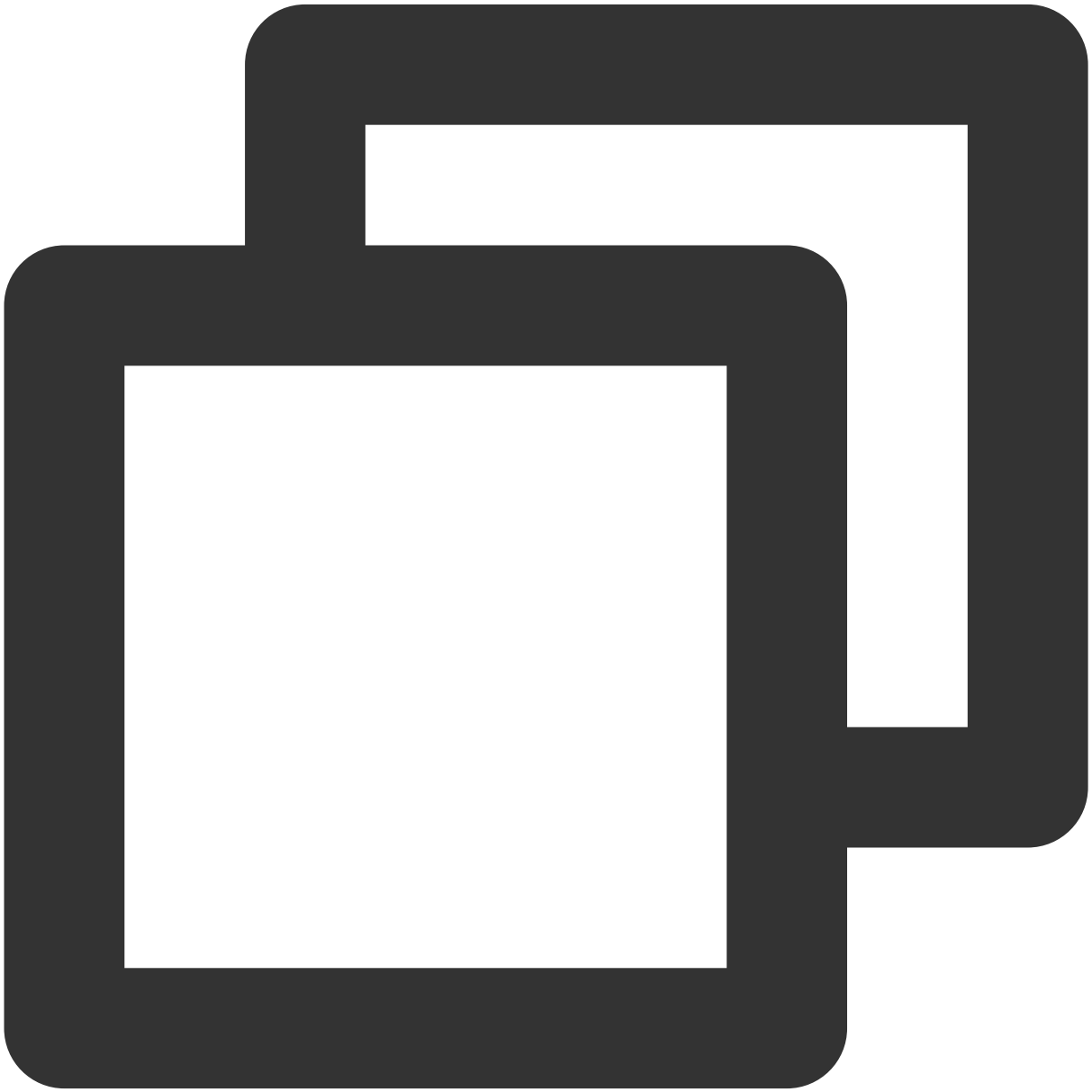
Submitting File Preview Job

Feature description

This API (`ci_create_doc_job`) is used to submit a file preview job.

Method prototype

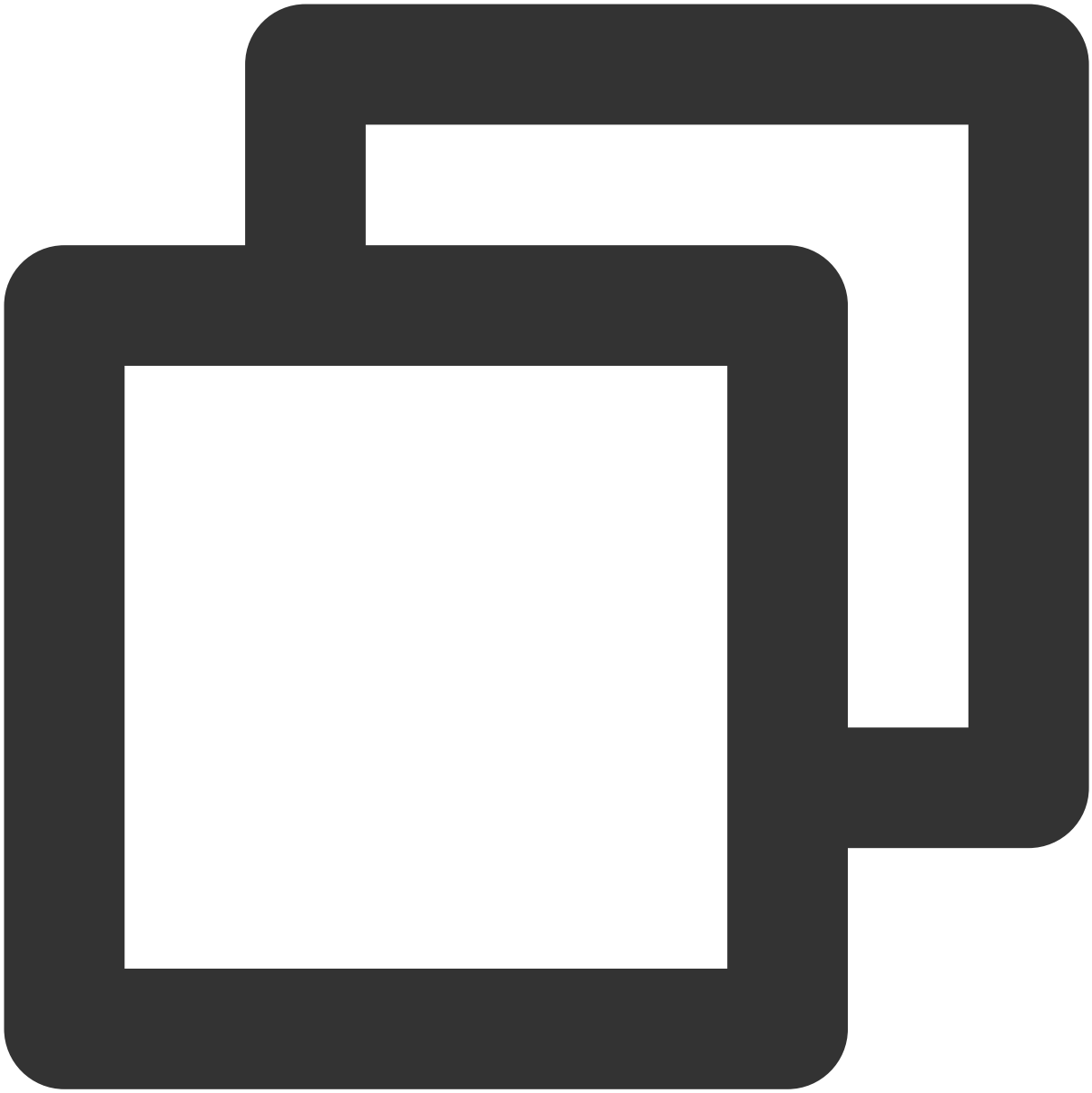
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```
def ci_create_doc_job(self, Bucket, QueueId, InputObject, OutputBucket, OutputRegio
                      StartPage=None, EndPage=-1, SheetId=0, PaperDirection=0,
```

Sample request

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```
def ci_create_doc_jobs():
    # Create an async file preview job
    response = client.ci_create_doc_job(
        Bucket=bucket_name,
        QueueId='p4bdf22xxxxxxxxxxxxxxxxxxxxxxxf1',
        InputObject='normal.pptx',
        OutputBucket=bucket_name,
        OutputRegion='ap-chongqing',
        OutputObject='/test_doc/normal/abc_${Number}.jpg',
        # DocPassword='123',
        Quality=109,
```

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```
        PageRanges='1,3',
    )
    print(response)
    return response
```

Parameter description

Parameter	Description	Type
Bucket	Bucket of the object	String
QueueId	ID of the queue which the job is in	String
InputObject	The object to be processed	Container
OutputRegion	Bucket region	String
OutputBucket	Result storage bucket	String
OutputObject	Output file path. **For non-spreadsheet files, the output file name must include the `${Number}` or `${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 based on the number of Excel sheets to be converted, and then the corresponding number of image files will be generated in these folders.	String
SrcType	Source data type. Currently, the file conversion feature determines the source data type based on the file extension of the COS object. If the object has no extension, you can set this value.	String
TgtType	Type of the output target image file. Valid values: `png`, `jpg`, `pdf`. If the input file format cannot be recognized, the `jpg` format will be used by default.	String

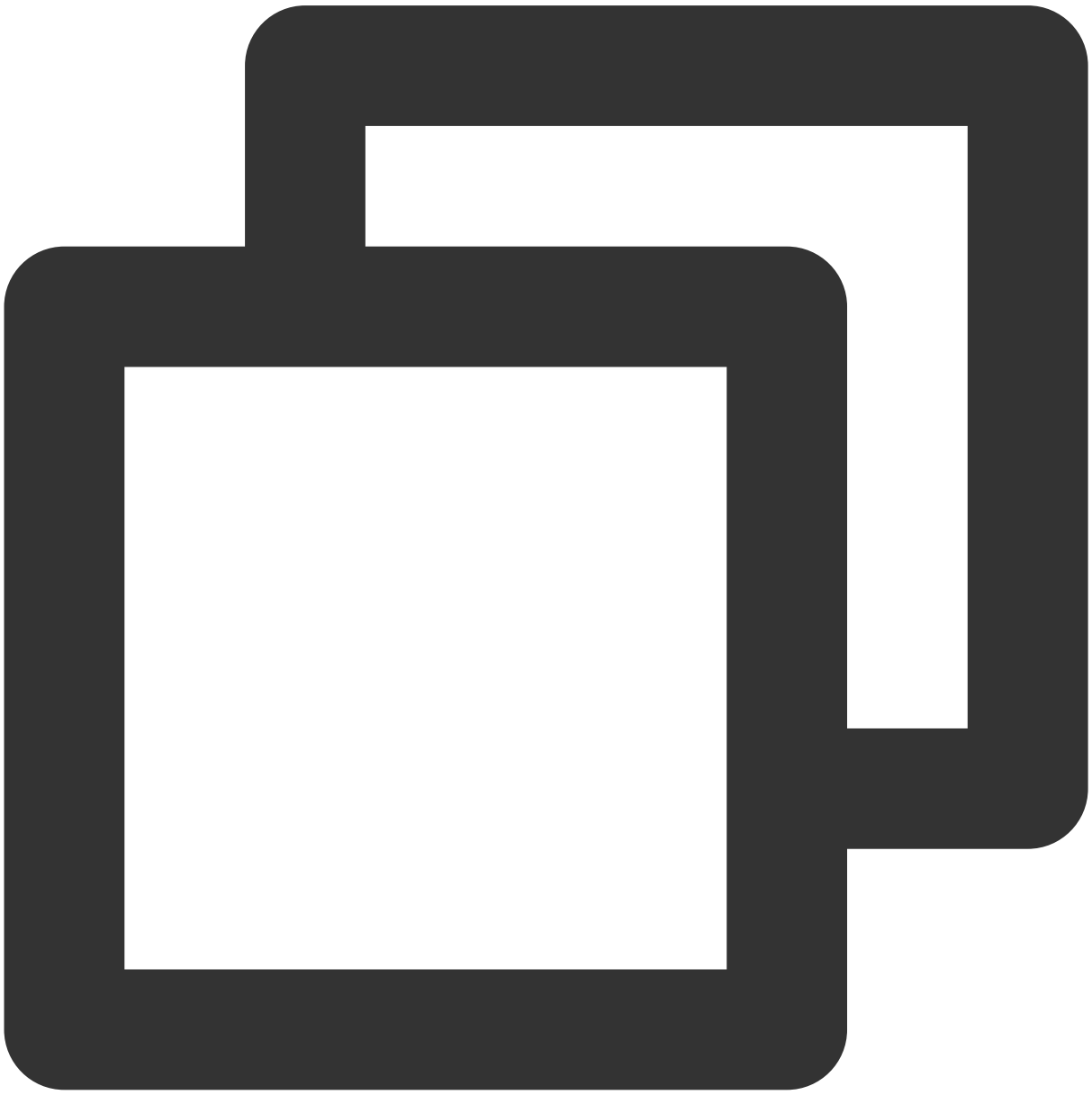
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StartPage	Starts conversion from page X. A spreadsheet file may be split into multiple pages, with multiple images generated, and `StartPage` indicates to start the conversion from page X of the specified `SheetId`. Default value: `1`.	Int
EndPage	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
SheetId	Sheet parameter, indicating to convert the xth sheet. Default value: `1`. If this value is set to `0`, all sheets will be converted.	Int
PaperDirection	Paper orientation of the spreadsheet. `0`: Vertical; other values: Horizontal. Default value: `0`.	Int
PaperSize	Page (canvas) size. Valid values: `0` (A4), `1` (A2), `2` (A0). Default value: `0`.	Int
DocPassword	Password to open the Office file. If you need to convert a password-protected file, set this field.	String
Comments	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
PageRanges	Range of pages to be converted; for example, "1,2-4,7" means to convert pages 1, 2, 3, 4, and 7 in the file.	String
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
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
Zoom	Zooming parameter of the preview image. Value range: [10-200]. Default value: `100`. For example, if the value is 200, the image will be zoomed in (enlarged) by 200%.	Int
ImageDpi	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
PicPagination	Whether to convert to a single long image. When this parameter is set to	Int

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	`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` .	

Response description



```
{
    'JobsDetail': {
```

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```
        'Code': 'Success',
        'CreationTime': '2022-09-14T00:00:00+0800',
        'EndTime': '-',
        'Input': {
            'BucketId': 'test-125xxxxxxxxxx',
            'Object': '1.txt',
            'Region': 'ap-chongqing'
        },
        'JobId': 'dcf48xxxxxxxxxxxxxxxxxxxxxxxxc523',
        'Message': None,
        'Operation': {
            'DocProcess': {
                'Comments': '1',
                'DocPassword': None,
                'EndPage': '-1',
                'ImageDpi': '96',
                'ImageParams': None,
                'PageRanges': '1,3',
                'PaperDirection': '0',
                'PaperSize': '0',
                'PicPagination': '0',
                'Quality': '109',
                'SheetId': '0',
                'SrcType': None,
                'StartPage': '0',
                'TgtType': None,
                'Zoom': '100'
            },
            'JobLevel': '0',
            'Output': {
                'Bucket': 'test-125xxxxxxxxxx',
                'Object': '/test_doc/normal/abc_${Number}.jpg',
                'Region': 'ap-chongqing'
            }
        },
        'QueueId': 'p4bxxxxxxxxxxxxxxxxxxxxxxxxxxxx57f1',
        'StartTime': '-',
        'State': 'Submitted',
        'Tag': 'DocProcess'
    }
}
```

Parameter	Description	Type
JobsDetail	Job details	Container
Code	Error code, which will be returned only if `State` is `Failed`.	String

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Message	Error message, which will be returned only if `State` is `Failed`.	String
JobId	Job ID	String
Tag	Job tag: DocProcess	String
State	Job status. Valid values: `Submitted`, `Running`, `Success`, `Failed`, `Pause`, `Cancel`.	String
CreationTime	Job creation time	String
QueueId	ID of the queue which the job is in	String
Input	Input file path of the job	Container
Operation	Operation rule	Container

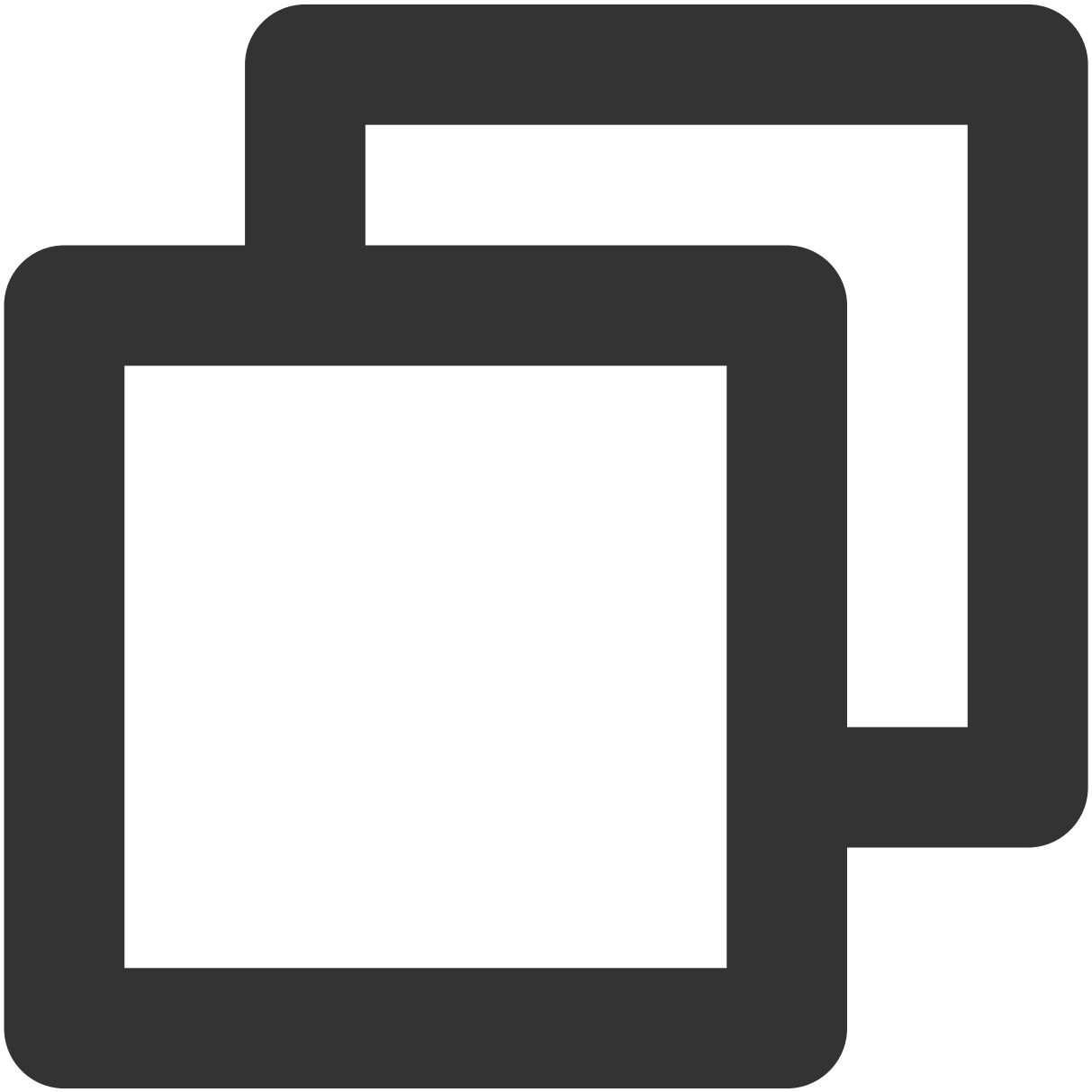
Querying Specified File Preview Job

Feature description

This API (`ci_get_doc_job`) is used to query a specified file preview job.

Method prototype

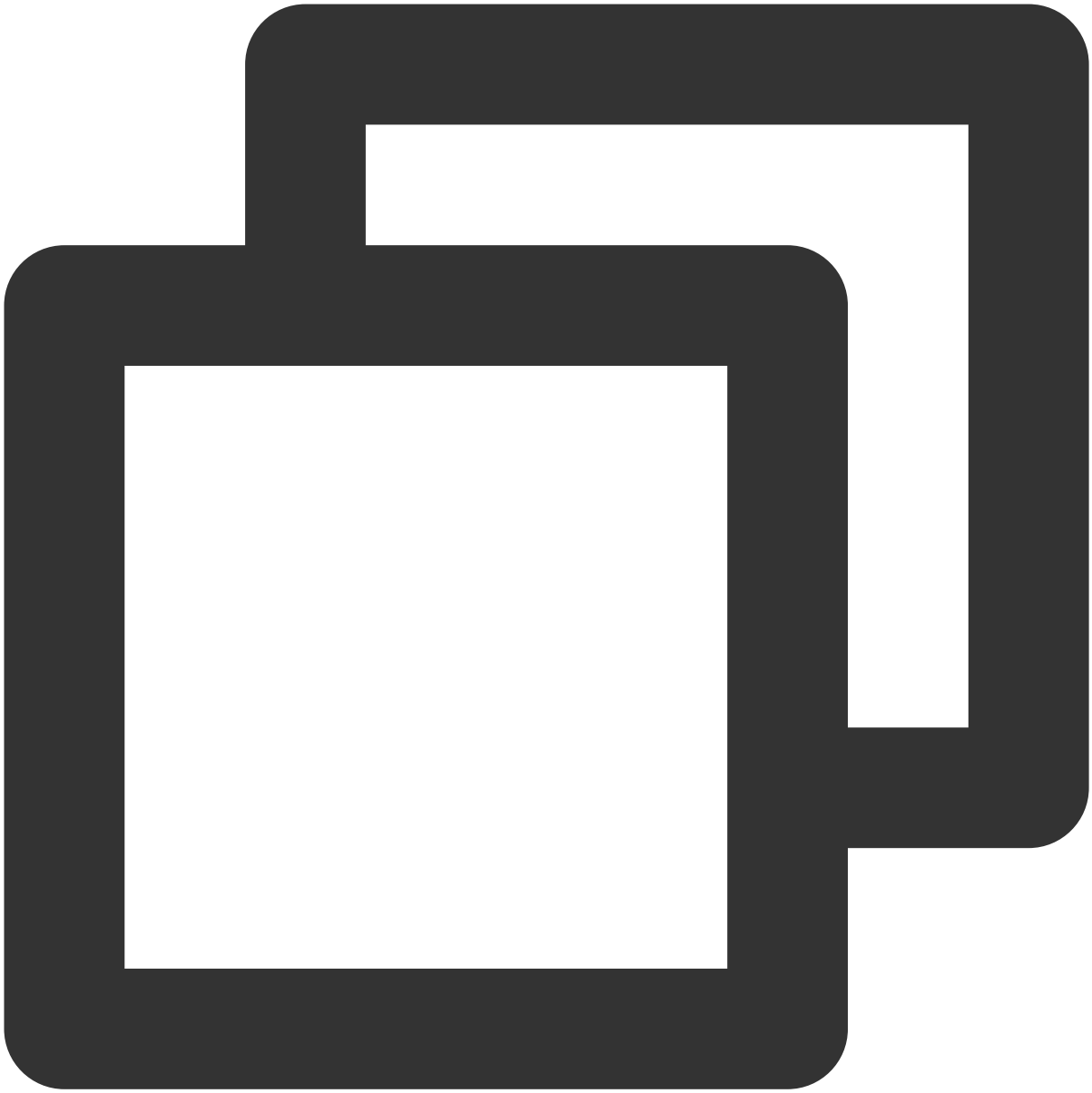
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```
def ci_get_doc_job(self, Bucket, JobID, **kwargs):
```

Sample request

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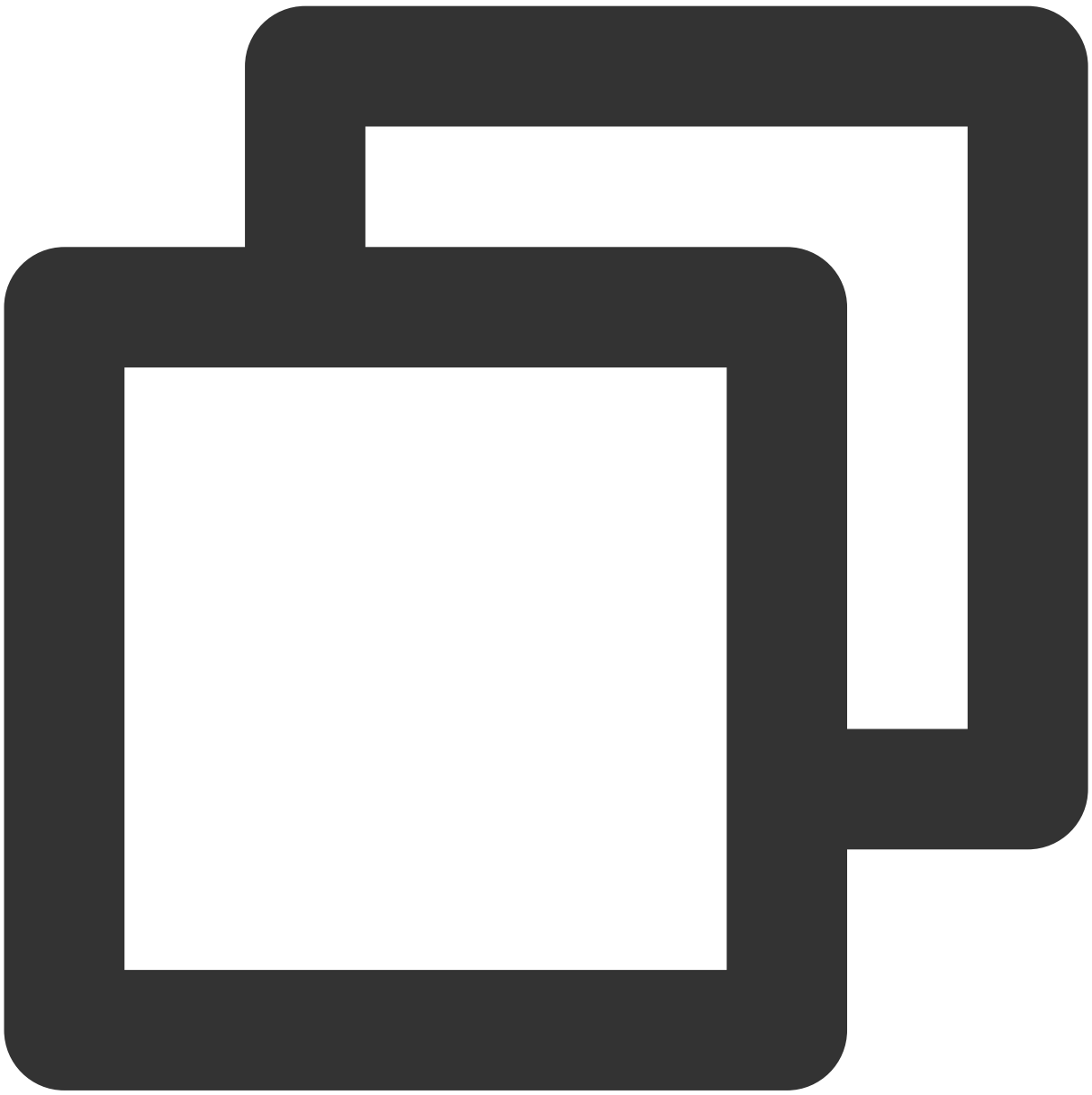
```
def ci_get_doc_jobs():
    # Get the information of the specified async file preview job
    response = client.ci_get_doc_job(
        Bucket=bucket_name,
        JobID='d18a9xxxxxxxxxxxxxxxxxxff1aa',
    )
    print(response)
    return response
```

Parameter description

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Parameter	Description	Type
Bucket	Bucket of the object	String
JobID	File preview job ID	String

Response description



```
{
    'JobsDetail':
```

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```
    [{
        'Code': 'Success',
        'CreationTime': '2022-09-14T17:15:43+0800',
        'EndTime': '2022-09-14T17:15:45+0800',
        'Input': {'BucketId': 'testpic-1253960454', 'Object': '1.txt', 'Region': 'a
        'JobId': 'dcf488492340d11edb2a0e3aa2e38c523',
        'Message': None,
        'Operation': {
            'DocProcess': {'Comments': '1',
                'DocPassword': None,
                'EndPage': '-1',
                'ImageDpi': '96',
                'ImageParams': None,
                'PageRanges': '1,3',
                'PaperDirection': '0',
                'PaperSize': '0',
                'PicPagination': '0',
                'Quality': '109',
                'SheetId': '0',
                'SrcType': None,
                'StartPage': '0',
                'TgtType': None,
                'Zoom': '100'
            },
            'DocProcessResult': {
                'FailPageCount': '0',
                'PageInfo': [{'PageNo': '1', 'TgtUri': '/test_doc/normal/abc_1.jpg'
                'SuccPageCount': '2',
                'TaskId': None,
                'TgtType': None,
                'TotalPageCount': '7'
            },
            'JobLevel': '0',
            'Output': {'Bucket': 'testpic-1253960454', 'Object': '/test_doc/normal/
        },
        'QueueId': 'p4bdf22746b014a22a5a097b1f1d057f1',
        'StartTime': '2022-09-14T17:15:44+0800',
        'State': 'Success',
        'Tag': 'DocProcess'
    }]
}
```

Parameter	Description	Type
JobsDetail	Job details, which is the same as `Response.JobsDetail` in the CreateDocProcessJobs API.	Container

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NonExistJobIds	List of non-existing job IDs queried. If all jobs exist, this node will not be returned.	String

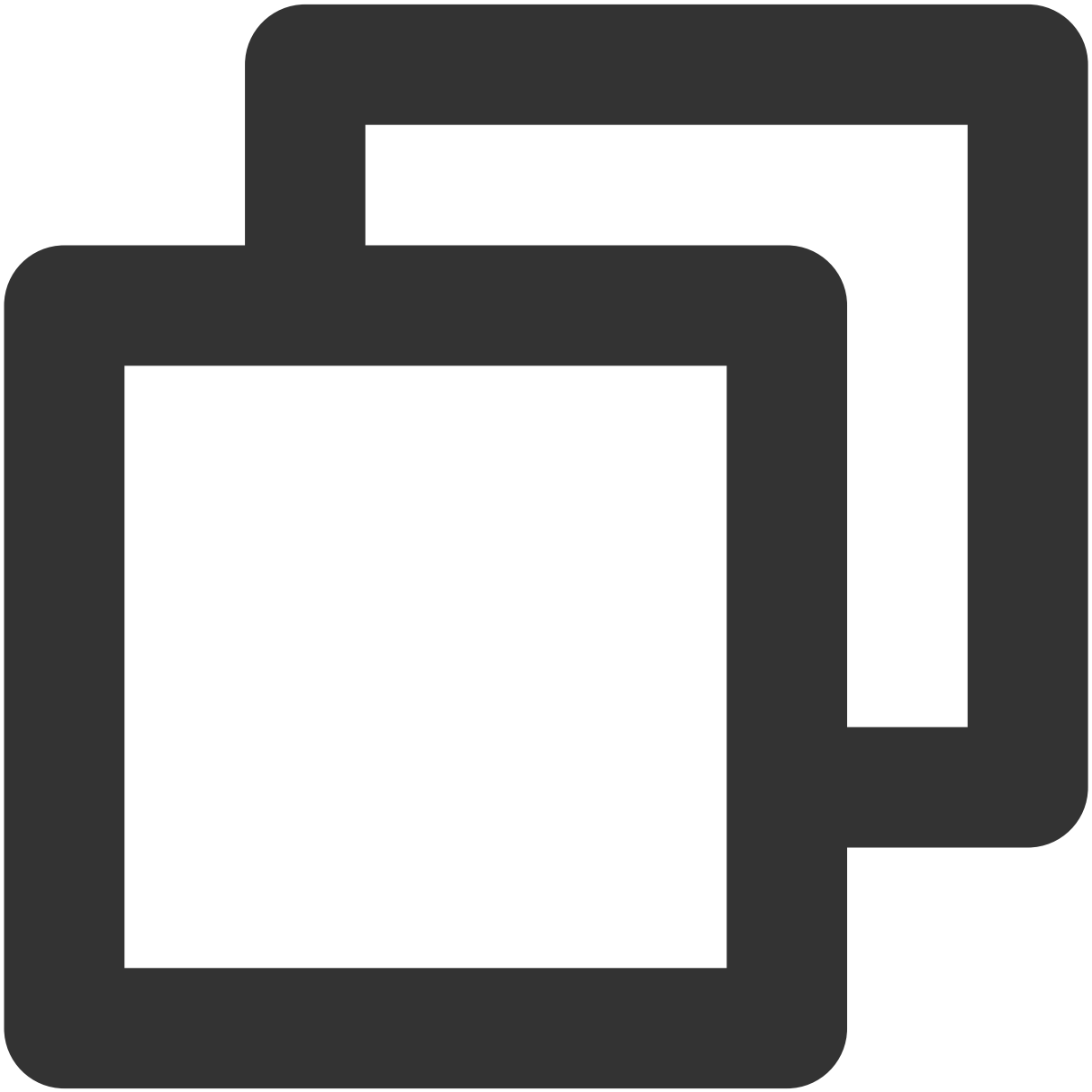
Pulling Eligible File Preview Jobs

Feature description

The API (`ci_list_doc_jobs`) is used to pull file preview jobs that meet specified conditions.

Method prototype

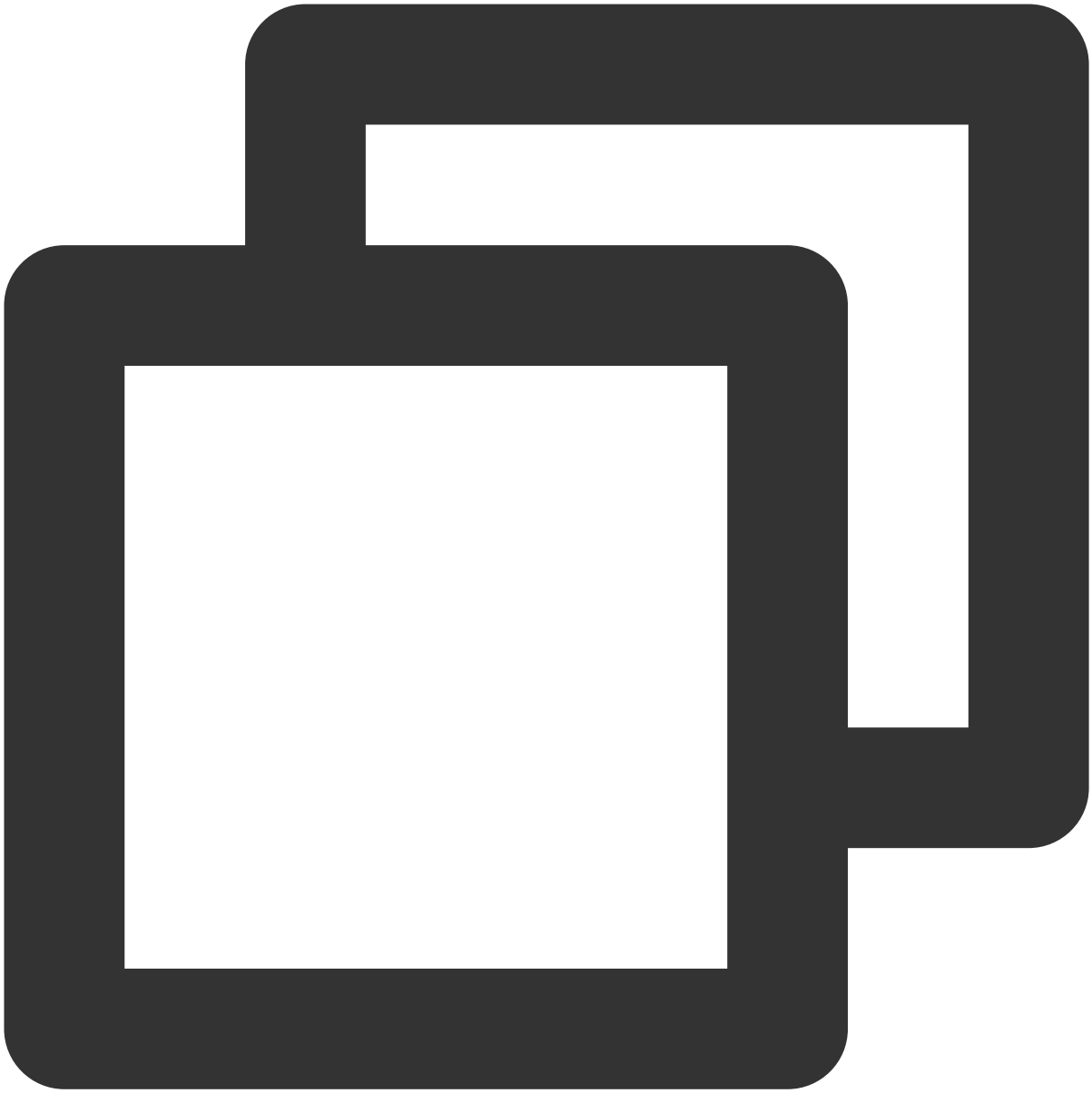
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```
def ci_list_doc_jobs(self, Bucket, QueueId, StartCreationTime=None, EndCreationTime
```

Sample request

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```
def ci_list_doc_jobs():
    # Get the list of async file preview jobs
    response = client.ci_list_doc_jobs(
        Bucket=bucket_name,
        QueueId='p4bdxxxxxxxxxxxxxxxxxxx57f1',
        Size=10,
    )
    print(response)
    return response
```

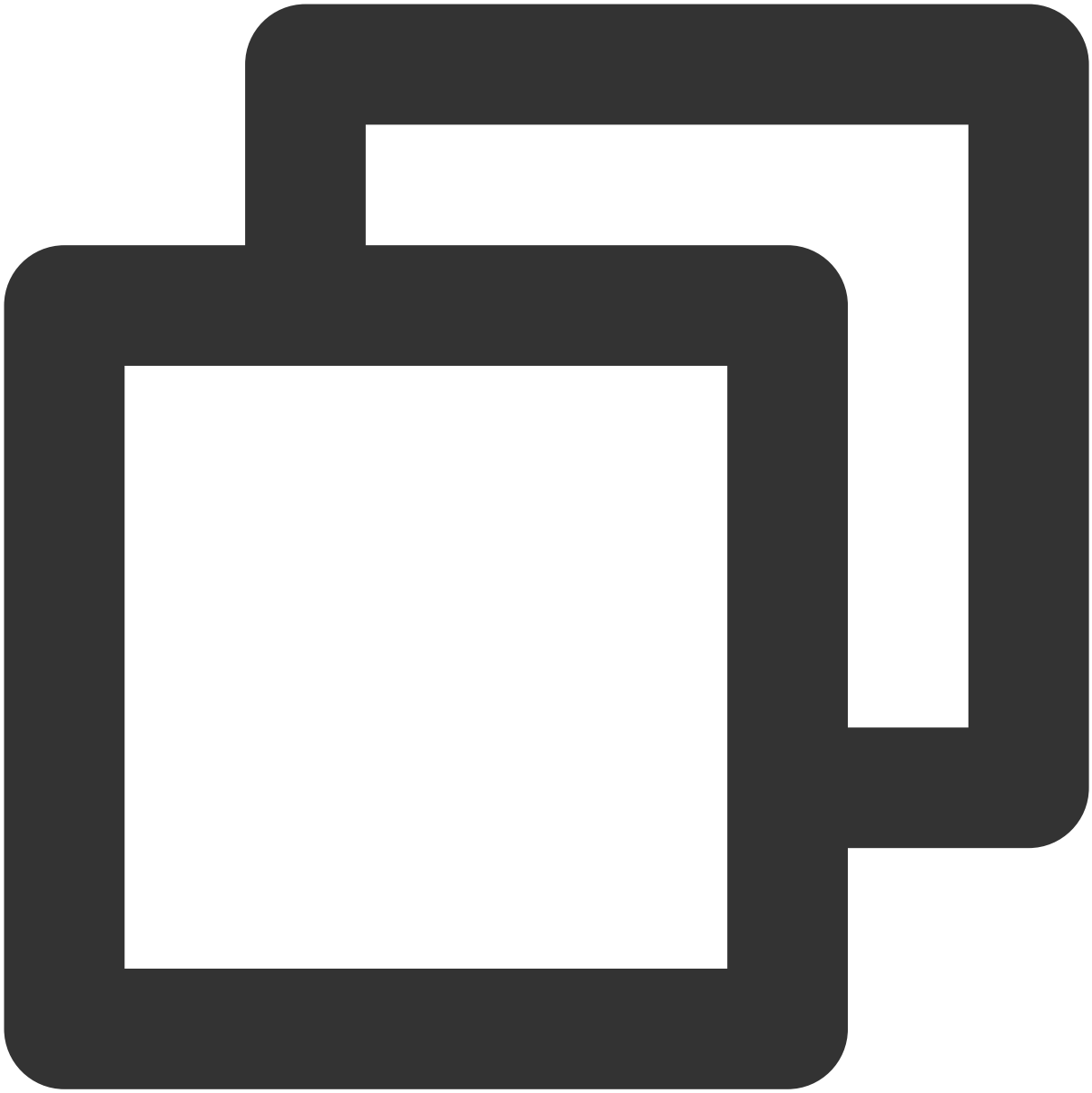
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Parameter description

Parameter	Description	Type
Bucket	Bucket of the job.	String
QueueId	ID of the queue from which jobs are pulled.	String
OrderByTime	Valid values: `Desc` (default) or `Asc`.	String
NextToken	Context token for pagination.	String
Size	Maximum number of jobs that can be pulled. The default value is `10`. The maximum value is `100`.	Int
States	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
StartCreationTime	Start time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String
EndCreationTime	End time of the time range for job pulling in the format of `%Y-%m-%dT%H:%m:%S%z`.	String

Response description

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```
{
    'JobsDetail': [{
        'Code': 'Success',
        'CreationTime': '2022-09-14T17:15:43+0800',
        'EndTime': '2022-09-14T17:15:45+0800',
        'Input': {'BucketId': 'testpic-1253960454', 'Object': '1.txt', 'Region': 'a
        'JobId': 'dcf488492340d11edb2a0e3aa2e38c523',
        'Message': None,
        'Operation': {
            'DocProcess': {
                'Comments': '1',
```

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```
                'DocPassword': None,
                'EndPage': '-1',
                'ImageDpi': '96',
                'ImageParams': None,
                'PageRanges': '1,3',
                'PaperDirection': '0',
                'PaperSize': '0',
                'PicPagination': '0',
                'Quality': '109',
                'SheetId': '0',
                'SrcType': None,
                'StartPage': '0',
                'TgtType': None,
                'Zoom': '100'
            },
            'DocProcessResult': {
                'FailPageCount': '0',
                'PageInfo': [{'PageNo': '1', 'TgtUri': '/test_doc/normal/abc_1.jpg'
                'SuccPageCount': '2',
                'TaskId': None,
                'TgtType': None,
                'TotalPageCount': '7'
            },
            'JobLevel': '0',
            'Output': {'Bucket': 'testpic-1253960454', 'Object': '/test_doc/normal/
        },
        'QueueId': 'p4bdf22746b014a22a5a097b1f1d057f1',
        'StartTime': '2022-09-14T17:15:44+0800',
        'State': 'Success',
        'Tag': 'DocProcess'
    }],
    'NextToken': '75789'
}
```


Parameter	Description	Type
JobsDetail	Job details, which is the same as `Response.JobsDetail` in the CreateDocProcessJobs API.	Container
NextToken	Context token for pagination.	String

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Async Processing Queue APIs

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for file preview queues.

API	Operation	Description
DescribeDocProcessQueues	Querying file preview queues	Queries specified file preview queues.
UpdateDocProcessQueue	Updating file preview queue	Updates specified file preview queue.

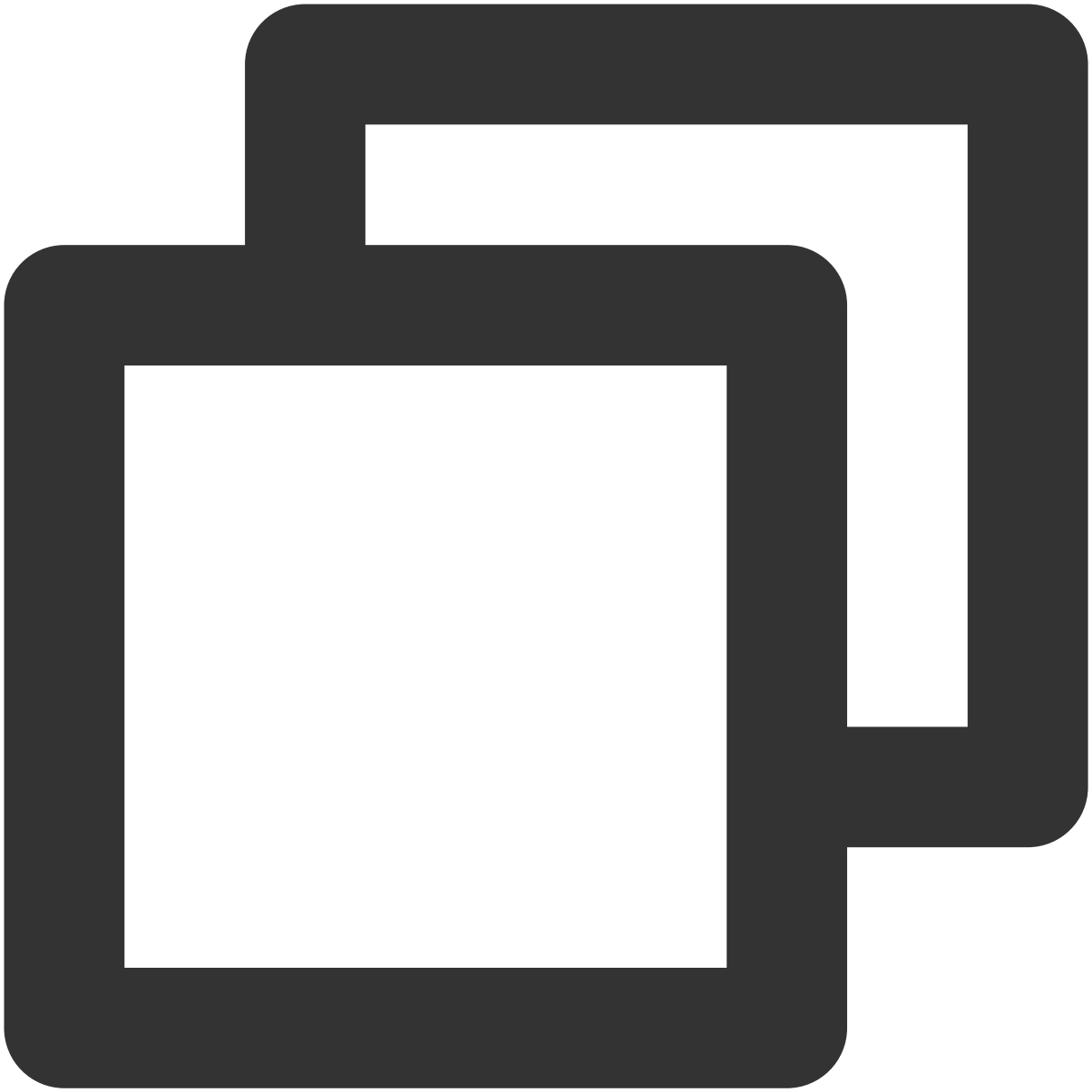
Querying File Preview Queue

Feature description

This API (`ci_get_doc_queue`) is used to query file preview queues.

Method prototype

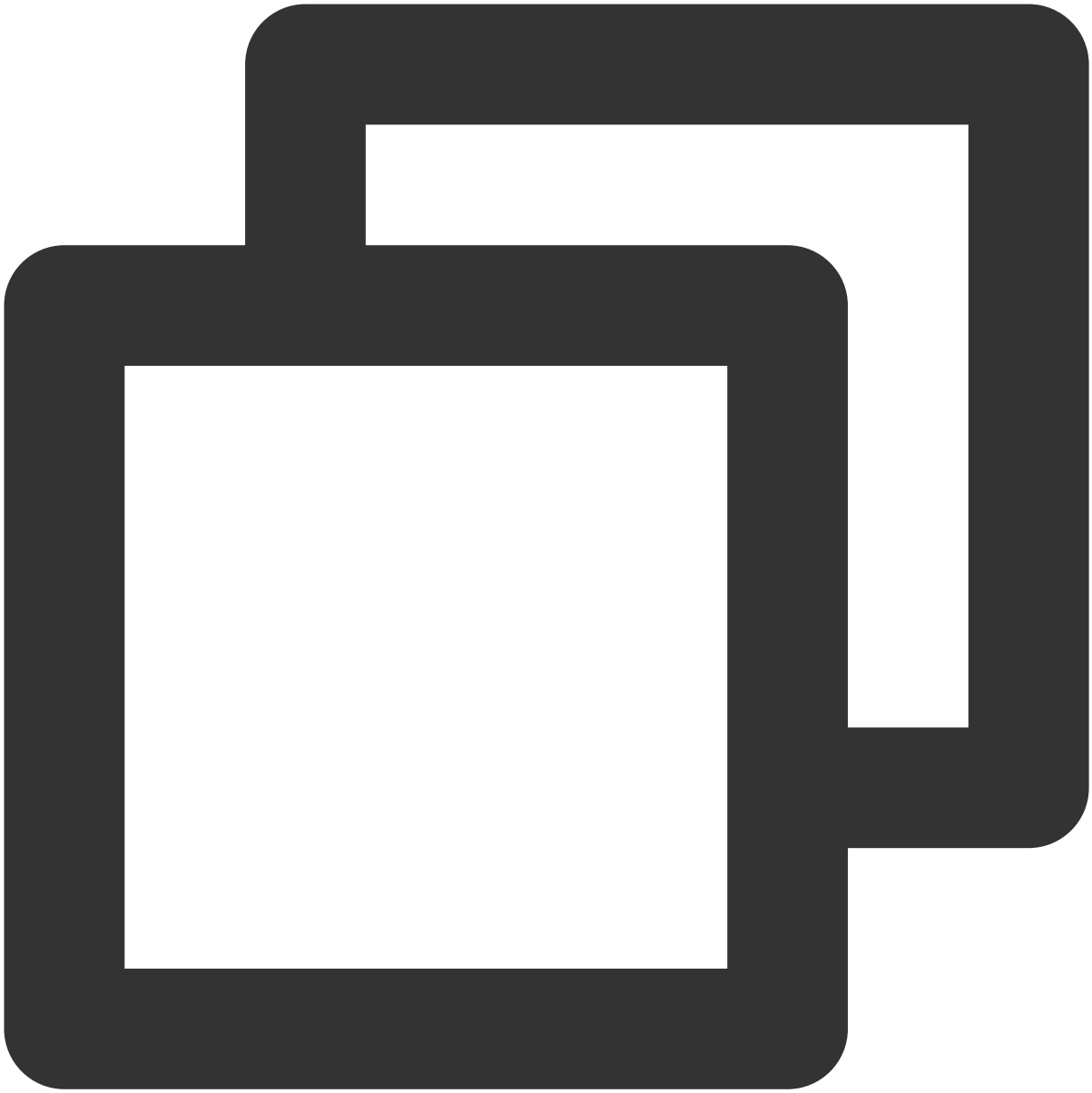
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```
def ci_get_doc_queue(self, Bucket, State='All', QueueIds='', PageNumber='', PageSiz
```

Sample request

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```
def ci_get_doc_queue():
    # Query a file preview queue
    response = client.ci_get_doc_queue(
        Bucket=bucket_name,
        PageNumber=1,
        PageSize=1,
    )
    print(response)
    return response
```

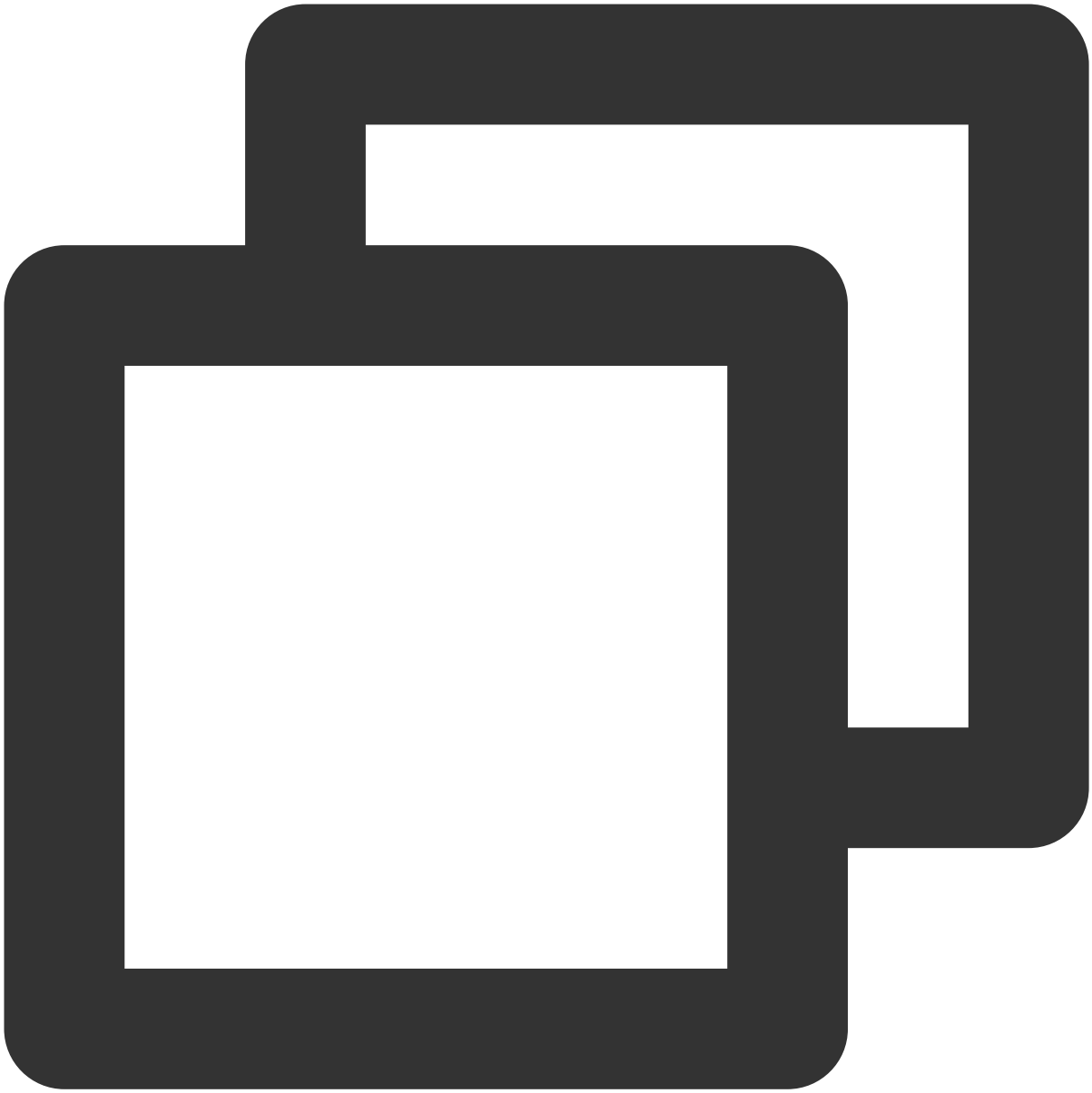
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Parameter description

Parameter	Description	Type
Bucket	Bucket of the queue.	String
QueueIds	Queue ID. If you enter multiple IDs, separate them by comma.	String
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
PageNumber	Page number.	int
PageSize	Number of entries per page.	int

Response description

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```
{
    'TotalCount': '1',
    'RequestId': 'NjMyMWExY2RfMTIwNjxxxxxxxxxxxxxxxxxx',
    'PageNumber': '1',
    'PageSize': '1',
    'QueueList': [{
        'QueueId': 'p4bdf22746bxxxxxxxxxxxxxxxxxxxxx',
        'Name': 'doc-queue',
        'State': 'Active',
        'NotifyConfig': {
            'Url': 'http://www.demo.callback.com',
```

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```
            'Event': 'TaskFinish',
            'Type': 'Url',
            'State': 'On',
            'ResultFormat': 'JSON',
            'MqMode': None,
            'MqName': None,
            'MqRegion': None
        },
        'MaxSize': '10000',
        'MaxConcurrent': '10',
        'CreateTime': '2022-08-11T14:42:01+0800',
        'UpdateTime': '2022-09-14T11:18:08+0800',
        'BucketId': 'test-125xxxxxxxxx',
        'Category': 'DocProcessing'
    }]
}
```

Parameter	Description	Type
RequestId	Unique ID of the request	String
TotalCount	Total number of queues	Int
PageNumber	Current page number, which is the same as `pageNumber` in the request.	Int
PageSize	Number of entries per page, which is the same as `pageSize` in the request.	Int
QueueList	Queue array	Container
NonExistPIDs	List of IDs of non-existent queues	String array
QueueId	Queue ID	String
Name	Queue name	String
State	Current status: `Active` or `Paused`.	String
NotifyConfig	Callback configuration	Container
MaxSize	Maximum length of the queue	Int
MaxConcurrent	Maximum number of concurrent jobs in the current queue	Int
UpdateTime	Update time	String

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CreateTime	Creation time	String
Url	Callback address	String
State	Switch status: `On` or `Off`.	String
Type	Callback type: `Url`.	String
Event	The event that triggers the callback	String

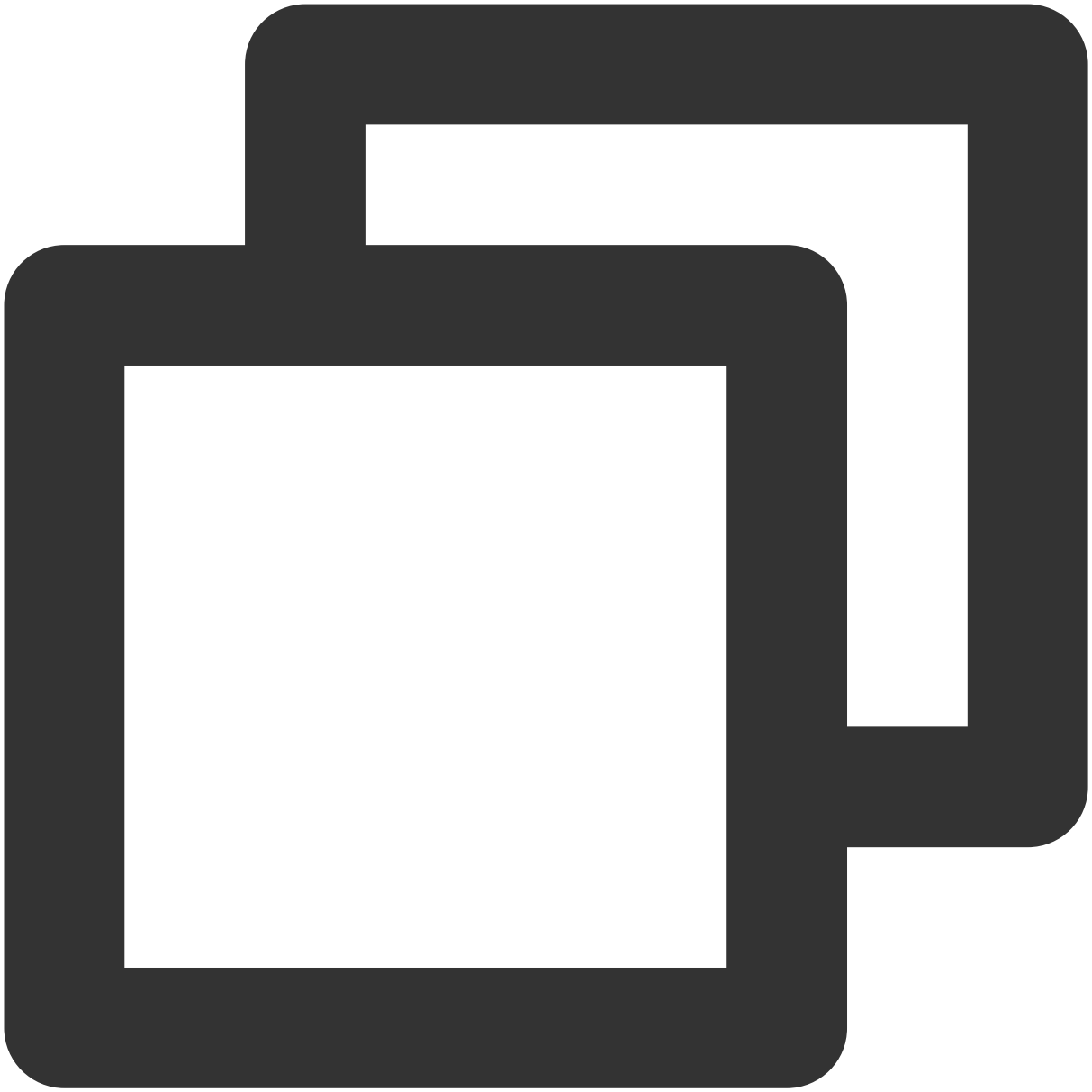
Updating File Preview Queue

Feature description

This API (`ci_update_doc_queue`) is used to update a file preview queue.

Method prototype

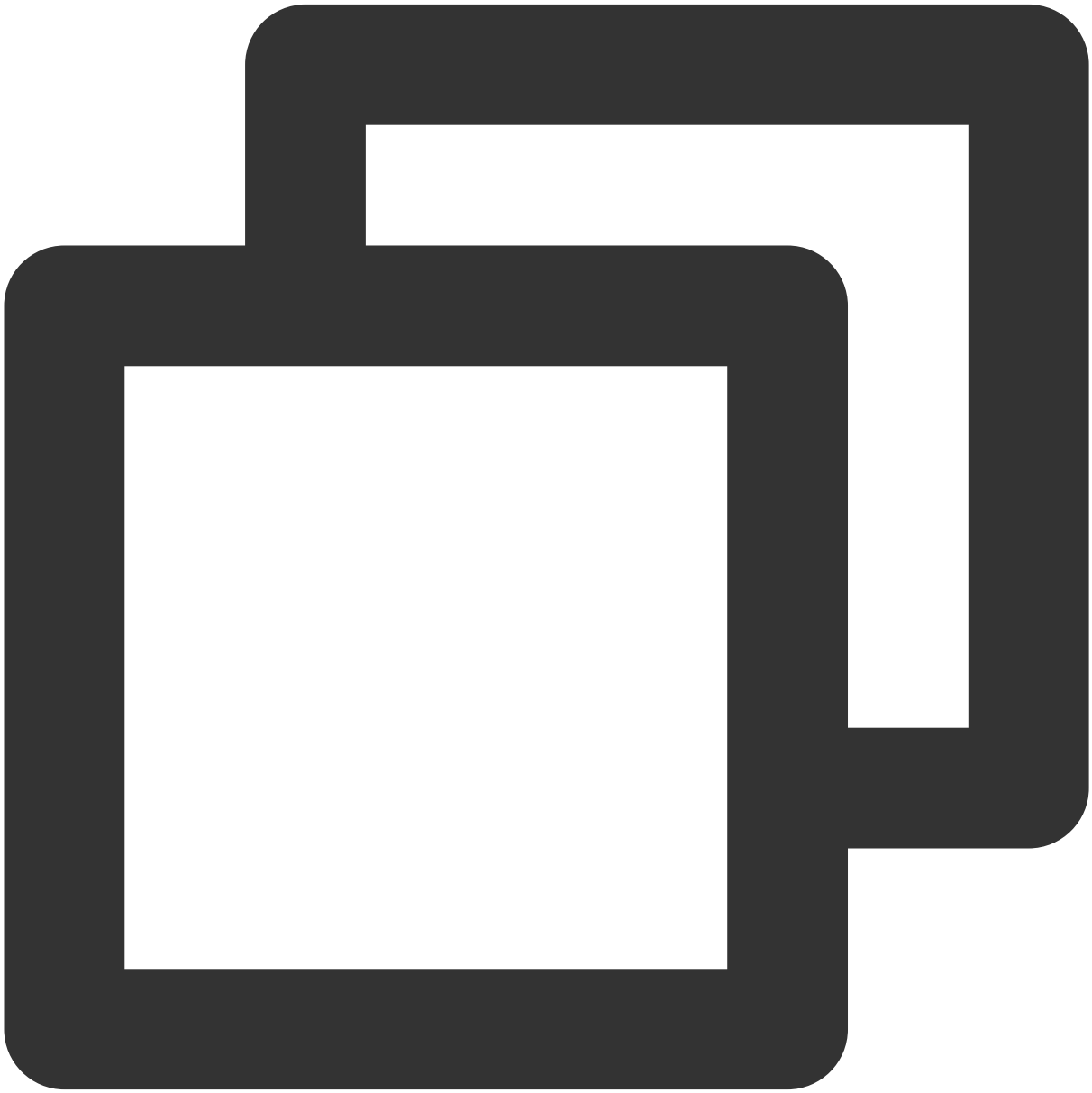
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```
def ci_update_doc_queue(self, Bucket, QueueId, Request={}, **kwargs):
```

Sample request

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```
def ci_put_doc_queue():
    # Update a file preview queue
    body = {
        'Name': 'doc-queue',
        'QueueID': 'p4bdf22xxxxxxxxxxxxxxxxxxxxxxxxf1',
        'State': 'Active',
        'NotifyConfig': {
            'Type': 'Url',
            'Url': 'http://www.demo.callback.com',
            'Event': 'TaskFinish',
            'State': 'On',
```

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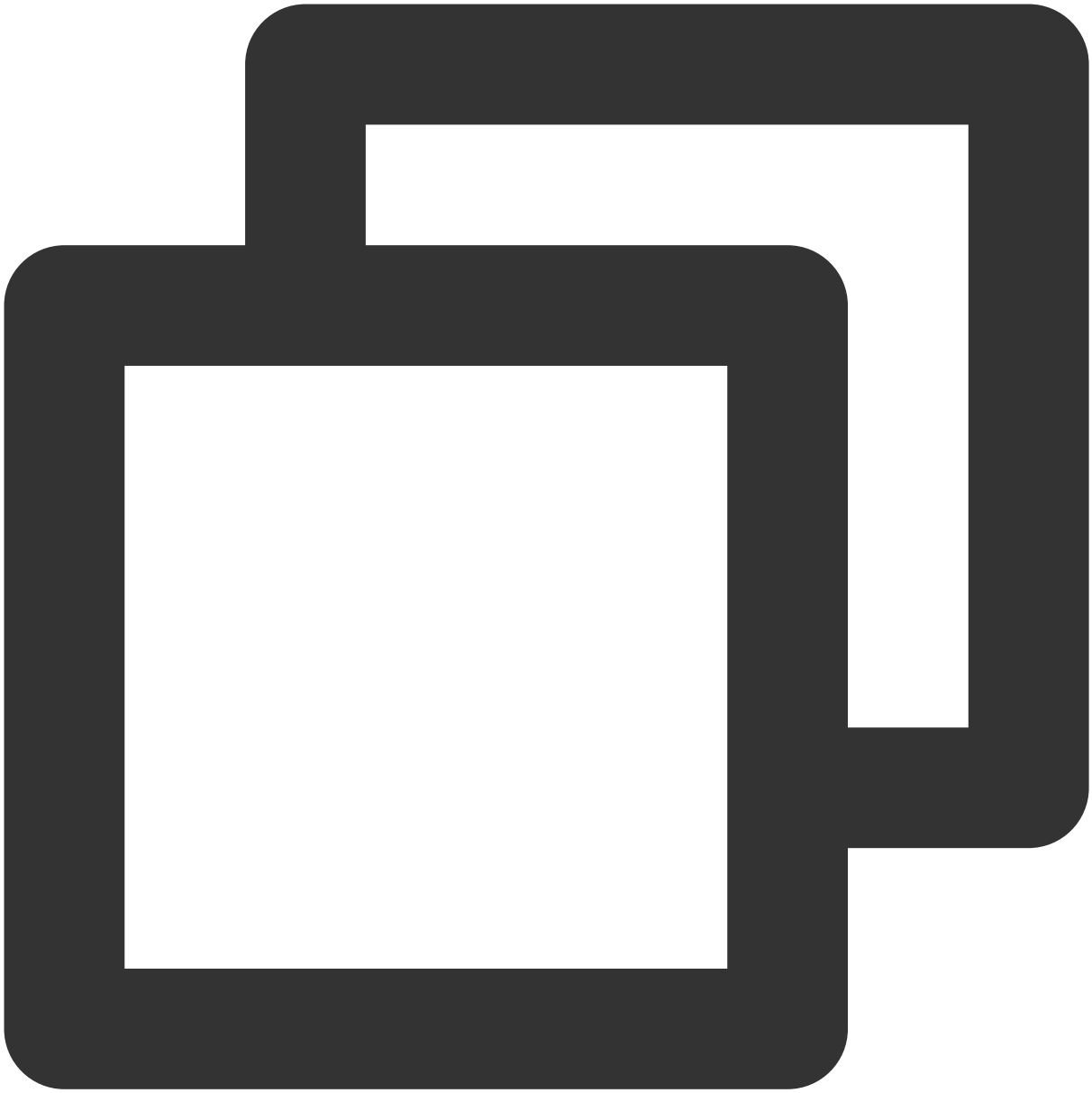
```
            'ResultFormat': 'JSON'
        }
    }
    response = client.ci_update_doc_queue(
        Bucket=bucket_name,
        QueueId='p4bdf22xxxxxxxxxxxxxxxxxxxxxxxf1',
        Request=body,
        ContentType='application/xml'
    )
    print(response)
    return response
```

Parameter description

Parameter	Description	Type
Bucket	Bucket name	String
Name	Queue name	String
QueueID	Queue ID	String
Request	Request body of the updated queue configuration	String

Response description

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```
{
    'RequestId': 'NjMyMWEzMTFfZWMxxxxxxxxxxxxxxxxxxxx',
    'Queue': [{
        'QueueId': 'p4bdf22746b0xxxxxxxxxxxxxxxxx',
        'Name': 'doc-queue',
        'State': 'Active',
        'NotifyConfig': {
            'Url': 'http://www.demo.callback.com',
            'Event': 'TaskFinish',
            'Type': 'Url',
            'State': 'On',
```

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```
            'ResultFormat':
            'JSON',
            'MqMode': None,
            'MqName': None,
            'MqRegion': None
        },
        'MaxSize': '10000',
        'MaxConcurrent': '10',
        'CreateTime': '2022-08-11T14:42:01+0800',
        'UpdateTime': '2022-09-14T11:18:08+0800',
        'BucketId': 'test-125xxxxxxxxxx',
        'Category': 'DocProcessing'
    }]
}
```

Parameter	Description	Type
RequestId	Unique ID of the request	dict
Queue	Queue information. For more information, see `QueueList` in the response in Querying File Transcoding Queue.	dict

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File-to-HTML Conversion

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for sync requests for file preview.

API	Description
File-to-HTML conversion	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.

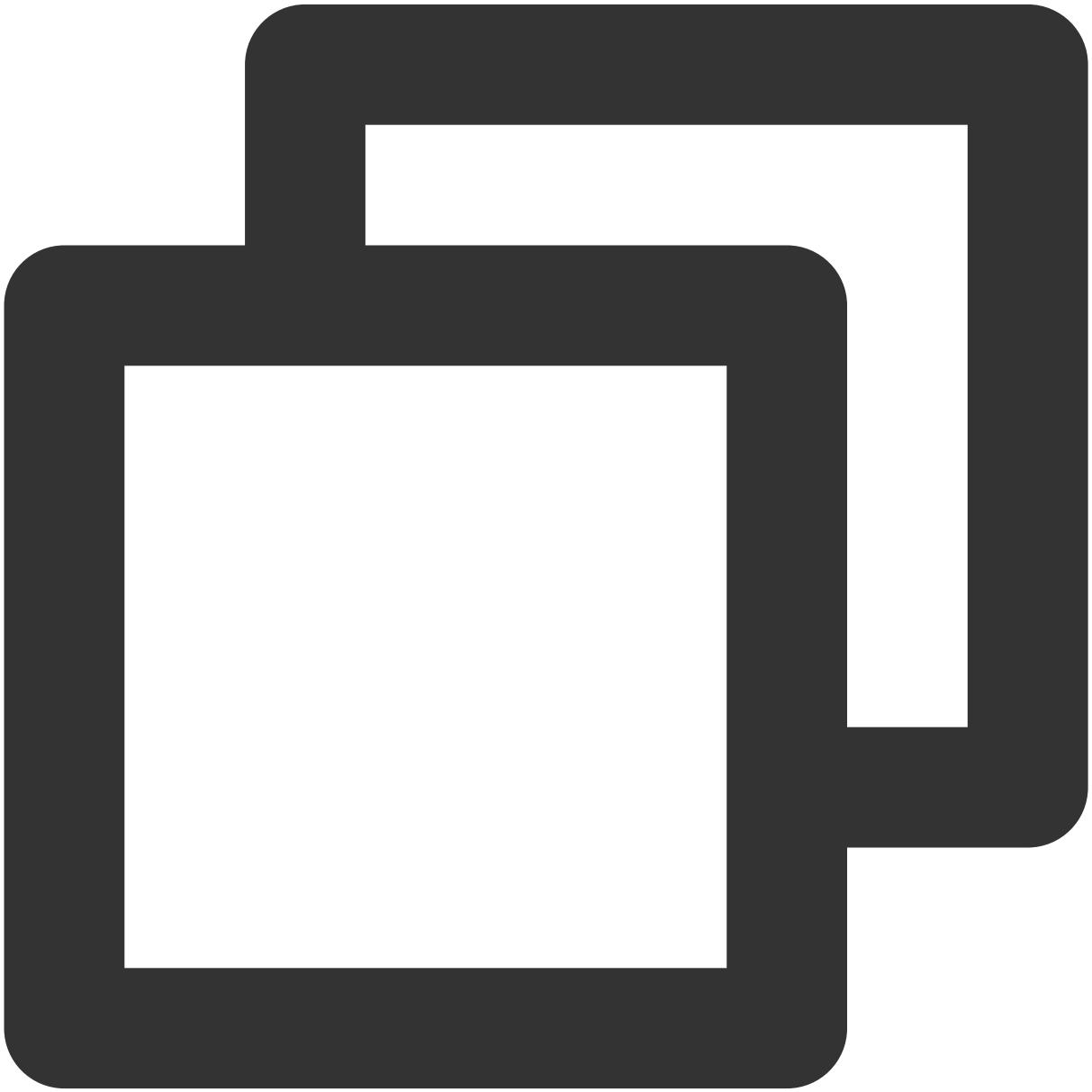
File-to-HTML Conversion

Feature description

This API is used to covert files in various formats to HTML for preview.

Method prototype

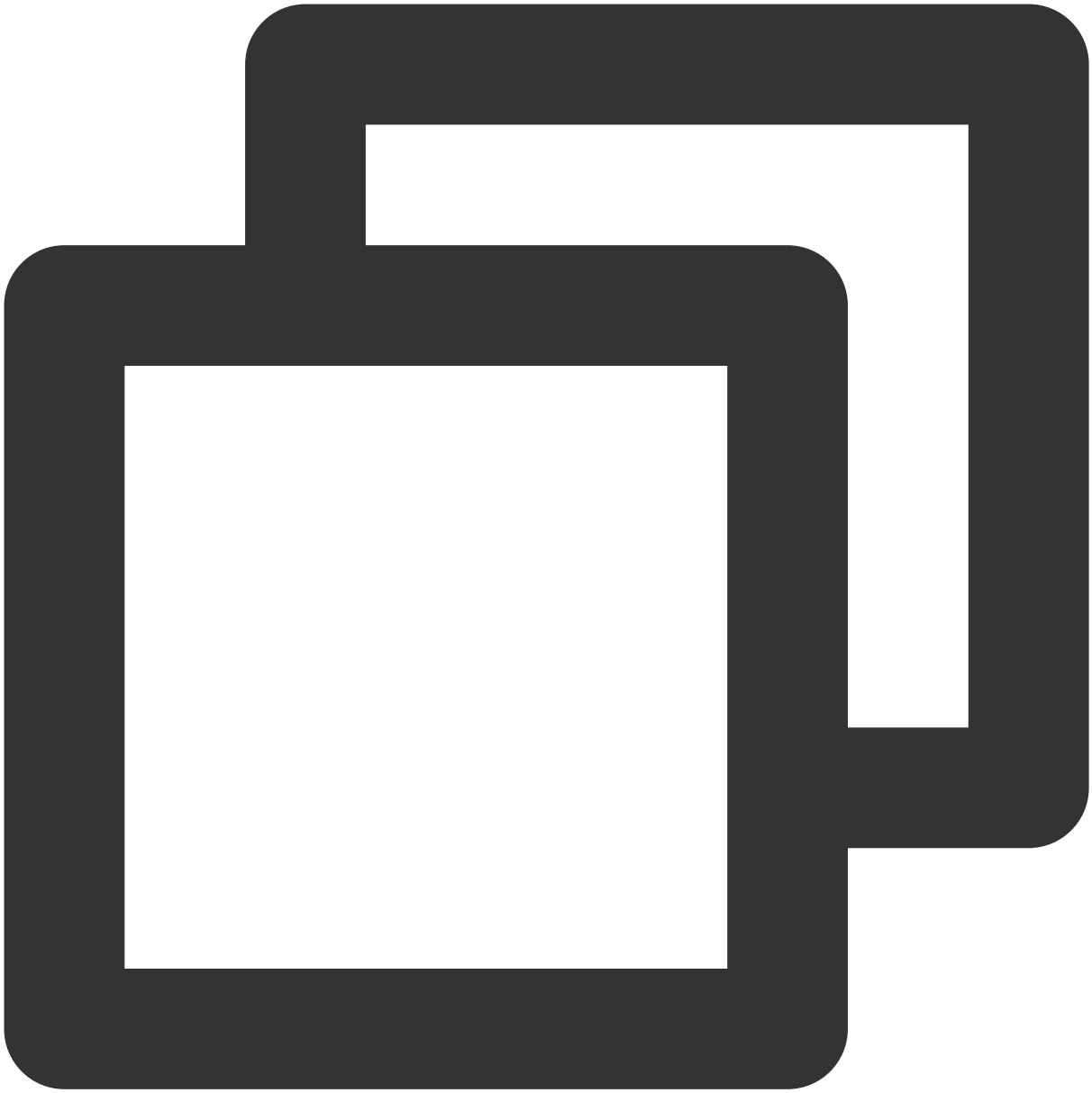
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```
def ci_doc_preview_html_process(self, Bucket, Key, SrcType=None, Copyable='1', DstT
                                HtmlFront=None, HtmlRotate=None, HtmlHorizontal
```

Sample request

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```
def ci_doc_preview_to_html_process():
    # Sync file preview API (generating HTML)
    response = client.ci_doc_preview_html_process(
        Bucket=bucket_name,
        Key='1.txt',
    )
    print(response)
    response['Body'].get_stream_to_file('result.html')
```

Parameter description

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Parameter	Description	Type	Required
Bucket	Bucket of the object	String	Yes
Key	Object name	String	Yes
SrcType	Source file type as listed in Getting Started.	String	No
Copyable	Whether the file content is copyable. Valid values: `1` (yes), `0` (no).	String	No
DstType	Output target file type, which is fixed at `html` for HTML preview.	String	Yes
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

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Querying File Preview Feature Status

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for querying the file preview feature status.

API	Description
Querying file preview feature status	Queries whether the file preview feature is enabled for a bucket.

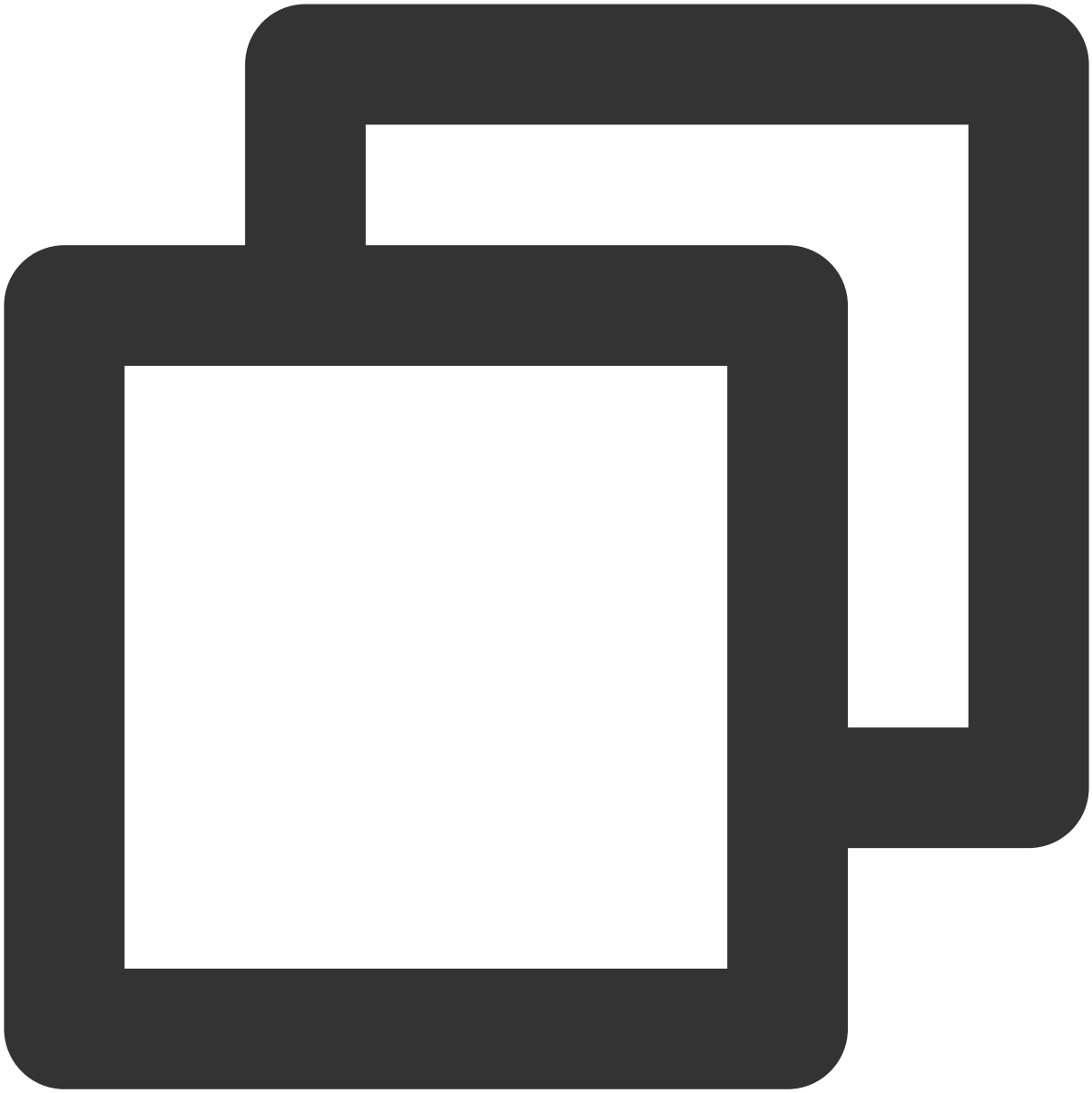
Querying File Preview Feature Status

Feature description

This API (`ci_get_doc_bucket`) is used to query whether the file preview feature is enabled for a bucket.

Method prototype

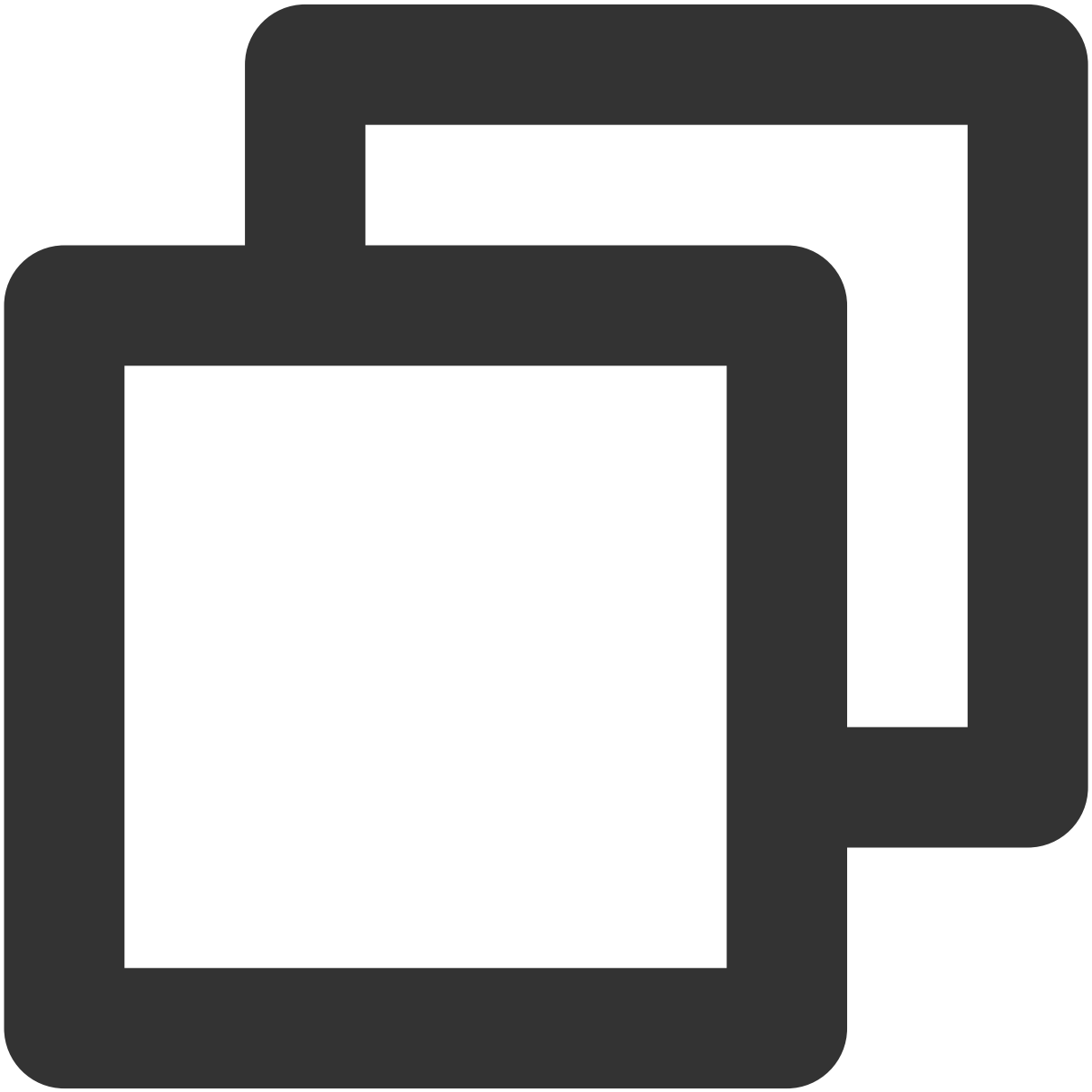
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```
def ci_get_doc_bucket(self, Regions='', BucketName='', BucketNames='', PageNumber='
```

Sample request

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```
def ci_get_doc_bucket():
    # Query the file preview feature status
    response = client.ci_get_doc_bucket(
        Regions=region,
        # BucketName='demo',
        BucketNames=bucket_name,
        PageSize=1,
        PageNumber=1
    )
    print(response)
    return response
```

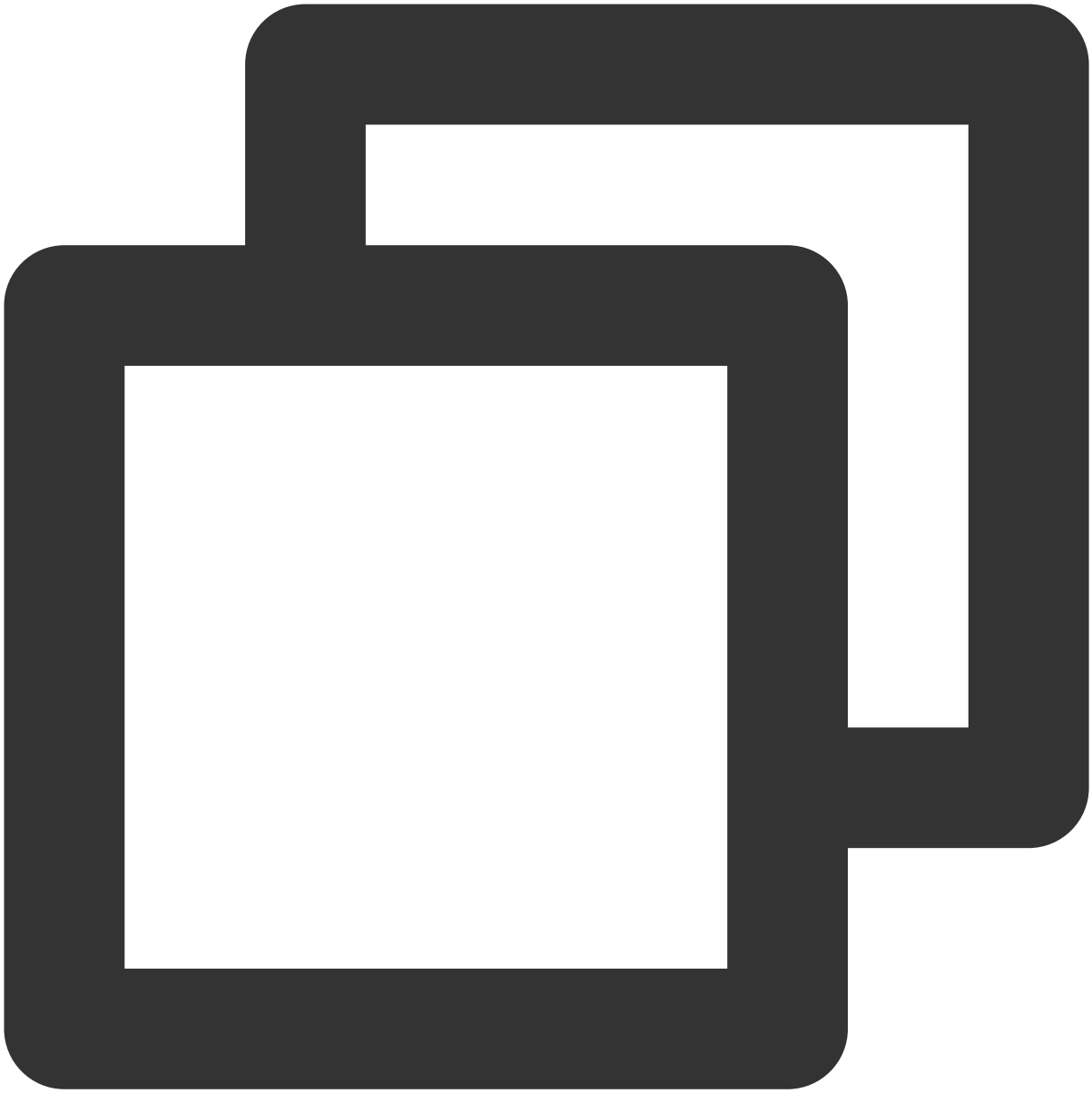
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Parameter description

Parameter	Description	Type
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
BucketNames	Bucket name. Separate multiple bucket names by comma. Exact search is supported.	string
BucketName	Bucket name prefix. Prefix search is supported.	string
PageNumber	Page number.	int
pageSize	Number of entries per page.	int

Response description

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```
{
    'TotalCount': '1',
    'RequestId': 'NjMyMWE2ZjZfZWM0YTYyNjRxxxxxxxxxxxx',
    'PageNumber': '1', 'PageSize': '1',
    'DocBucketList': [{
        'Name': 'testpic-125xxxxxxx',
        'CreateTime': '2022-08-11T00:00:00+0800',
        'Region': 'ap-chongqing',
        'AliasBucketId': None,
        'BucketId': 'test-125xxxxxxxx'
    }]
```

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```
}
```

Parameter	Description	Type
RequestId	Unique ID of the request.	string
TotalCount	Total number of buckets with file preview enabled.	int
PageNumber	Current page number, which is the same as `pageNumber` in the request.	int
PageSize	Number of entries per page, which is the same as `pageSize` in the request.	int
DocBucketList	List of buckets with file preview enabled.	Container
BucketId	Bucket ID.	string
Name	Bucket name, which is the same as `BucketId` .	string
Region	Region.	string
CreateTime	Creation time.	string
AliasBucketId	Bucket alias.	string

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Template APIs
Speech Recognition

Last updated：2024-03-01 14:57:12

Overview

This document describes how to use CI's speech recognition template SDK.

API	Operation	Description
Creating automatic speech recognition template	Creates a template	Creating a template
Deleting automatic speech recognition template	Deletes a template	Deleting a template
DescribeTemplates	Queries templates	Querying the list of templates.
Updating automatic speech recognition template	Modifies a template	Modifying a template

Basic Operations

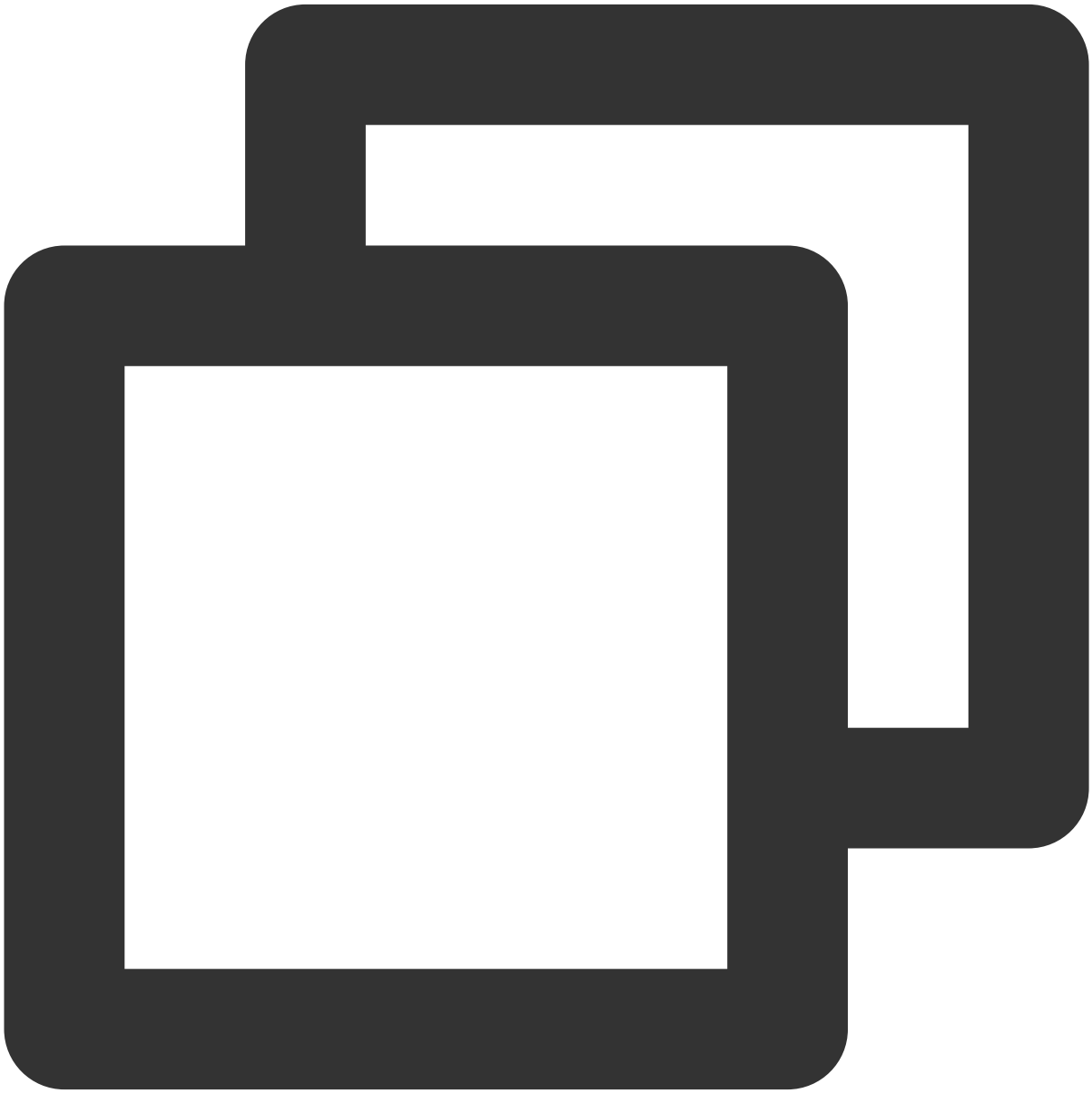
Creating template

Feature description

This API is used to create a template.

Method prototype

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```
def ci_create_asr_template(self, Bucket, Name, EngineModelType, ChannelNum,
                           ResTextFormat, FilterDirty=0, FilterModal=0, ConvertNumM
                           SpeakerNumber=0, FilterPunc=0, OutputFileType='txt', **k
```

Parameter description

`Request` has the following sub-nodes:

Request has the following sub-nodes:

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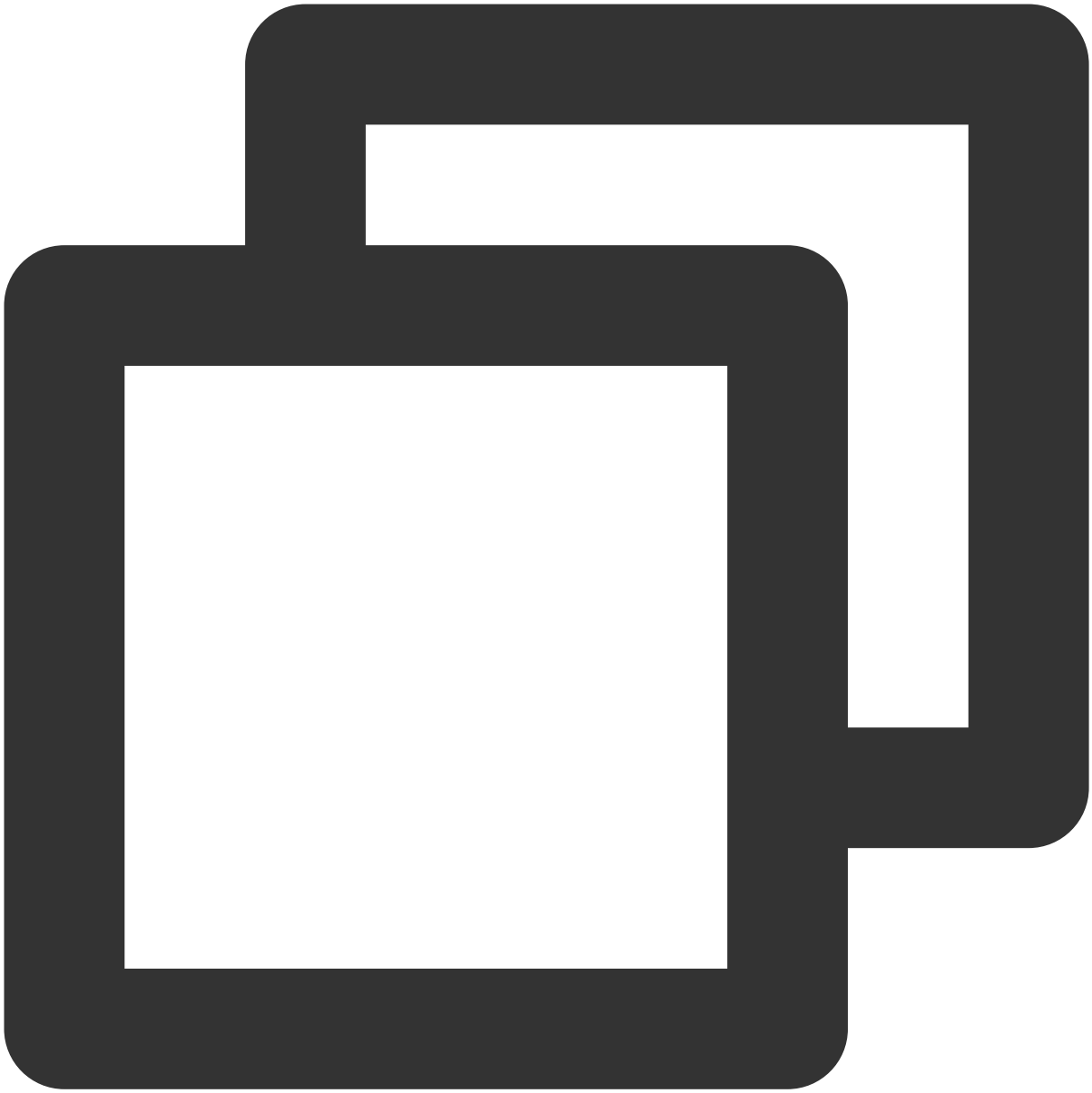
Node Name (Keyword)	Description	Type	Required
Bucket	Bucket name	String	Yes
Name	Template name, which can contain letters, digits, underscores (_), hyphens (-), and asterisks (*).	String	Yes
EngineModelType	Engine model type, divided into phone call and non-phone call scenarios. Phone call scenarios: 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.	String	Yes
ChannelNum	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).	int	No
ResTextFormat	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 speech speed value.	int	Yes
FilterDirty	Whether to filter restricted words (for the Mandarin engine only). 0: Does not filter.	int	No

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	1: Filters. 2: Replaces restricted words with *. Default value: 0.		
FilterModal	Whether to filter modal particles (for the Mandarin engine only). 0: Does not filter. 1: Filters partially. 2: Filters strictly. Default value: 0.	int	No
ConvertNumMode	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.	int	No
SpeakerDiarization	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.	int	No
SpeakerNumber	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.	int	No
FilterPunc	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.	int	No
OutputFileType	Output file type. Valid values: txt (default), srt.	String	No

Sample request

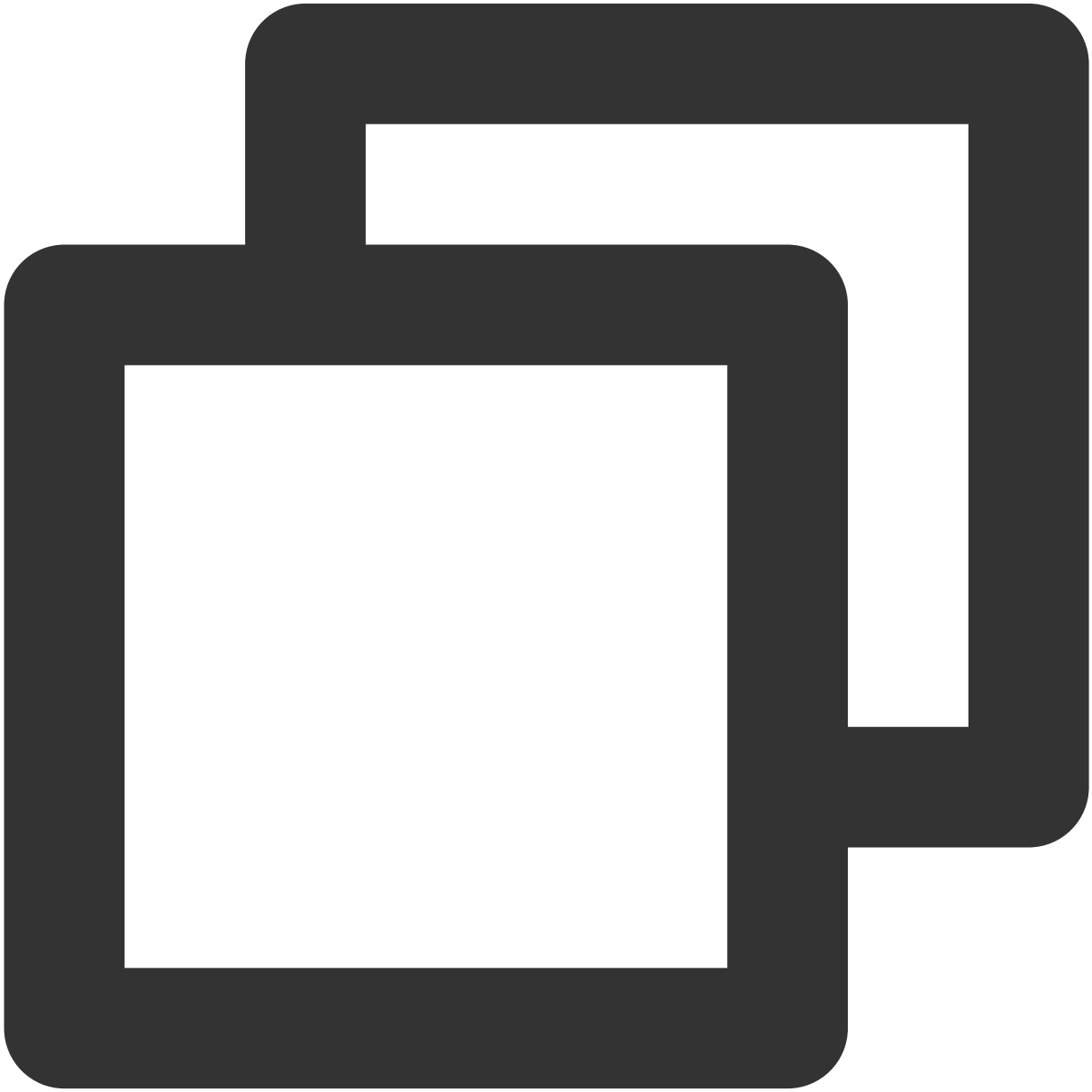
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```
def ci_create_asr_template():
    # Create a speech recognition template
    response = client.ci_create_asr_template(
        Bucket=bucket_name,
        Name='templateName',
        EngineModelType='16k_zh',
        ChannelNum=1,
        ResTextFormat=2,
    )
    print(response)
    return response
```

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Response description



```
{
    'RequestId': 'NjMyMjliMWZfZWM0YTYyNjRfNWNmNF8xMDBh',
    'Template': {
        'TemplateId': 't1c1287c04c147443da0b2cc7b8fbabf32',
        'Name': 'templateName',
        'State': 'Normal',
        'Tag': 'SpeechRecognition',
        'CreateTime': '2022-09-15T11:25:19+0800',
```

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```
            'UpdateTime': '2022-09-15T11:25:19+0800',
            'BucketId': 'testpic-1253960454',
            'Category': 'Custom',
            'SpeechRecognition': {
                'EngineModelType': '16k_zh',
                'ChannelNum': '1',
                'ResTextFormat': '2',
                'FilterDirty': '0',
                'FilterModal': '0',
                'ConvertNumMode': '0',
                'SpeakerDiarization': '0',
                'SpeakerNumber': '0',
                'FilterPunc': '0',
                'OutputFileType': 'txt'
            }
        }
    }
```

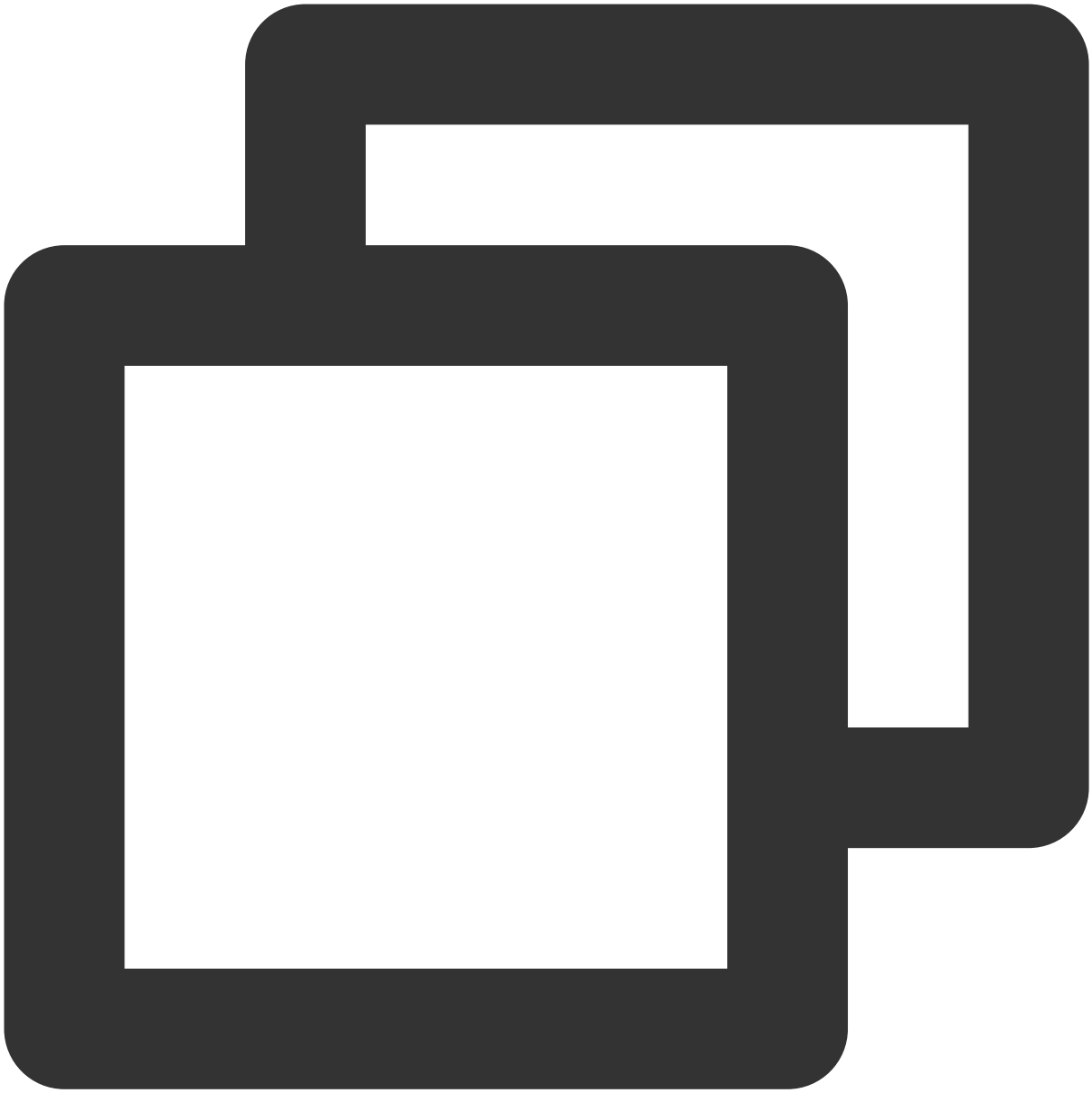
For more information on response fields, see the response in Creating Speech Recognition Template.

Deleting template

Feature description

This API is used to delete a template.

Method prototype



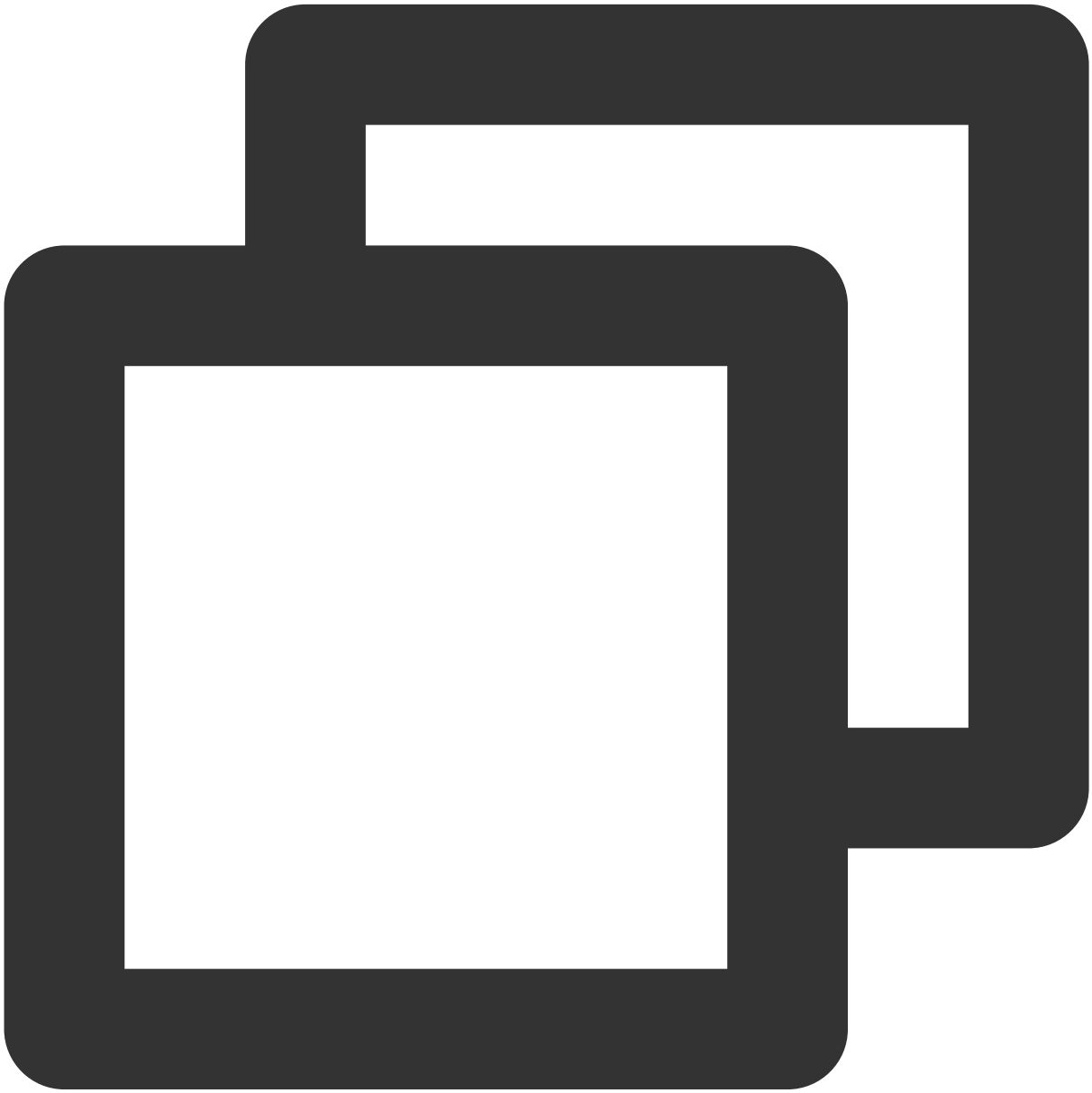
```
def ci_delete_asr_template(self, Bucket, TemplateId, **kwargs)
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
TemplateId	ID of the template to be canceled	String	Yes

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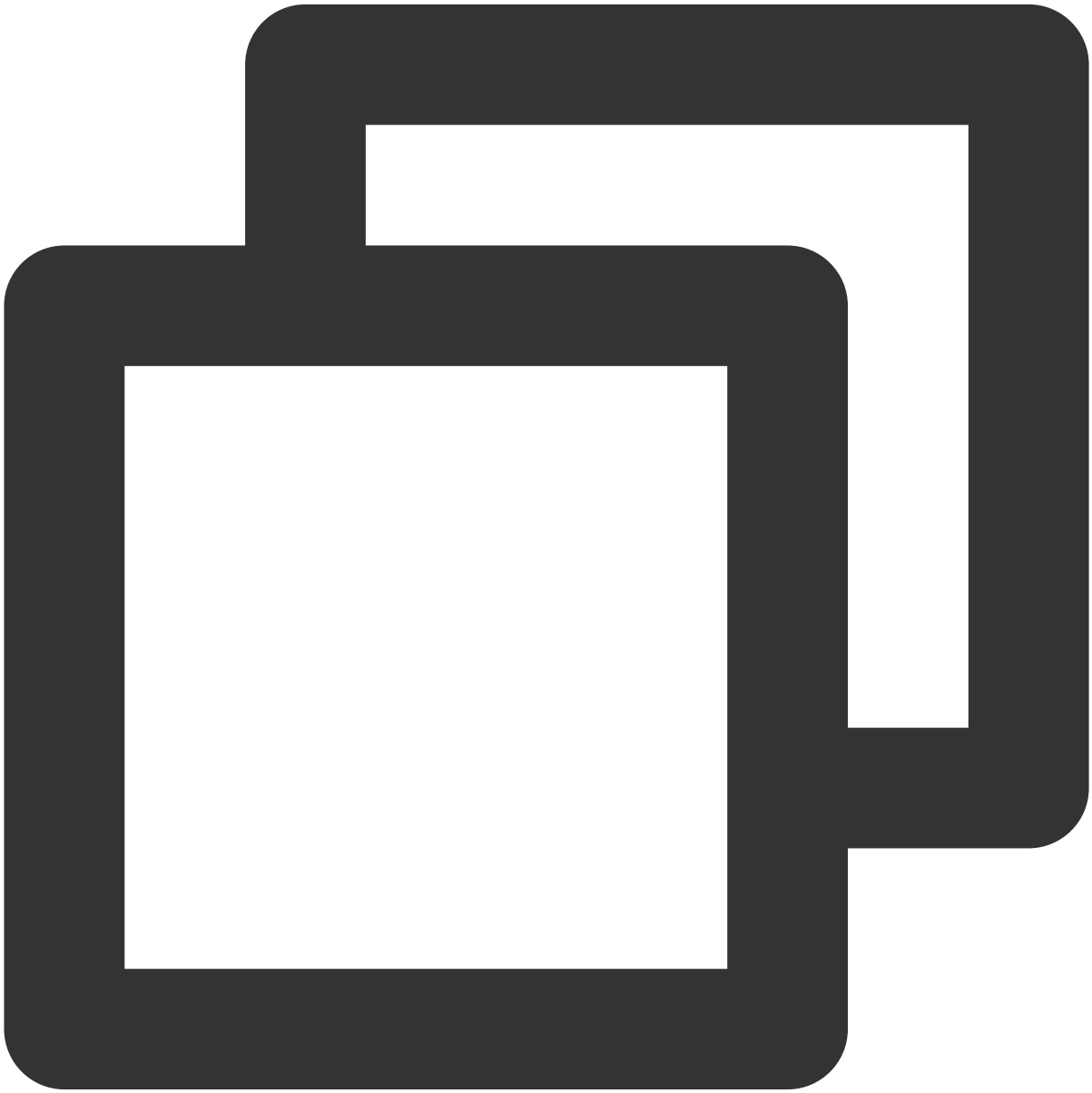
Sample request



```
def ci_delete_asr_template():
    # Delete the specified speech recognition template
    response = client.ci_delete_asr_template(
        Bucket=bucket_name,
        TemplateId='t1bdxxxxxxxxxxxxxxxx94a9',
    )
    print(response)
    return response
```

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Response description



```
{
    'RequestId': 'NjMyMjlkZmRfZWM0YTYyNjRfNWNmNF8xMDBi',
    'TemplateId': 't1c1287c04c147443da0b2cc7b8fbabf32'
}
```

For more information on response fields, see the response in DeleteTemplate.

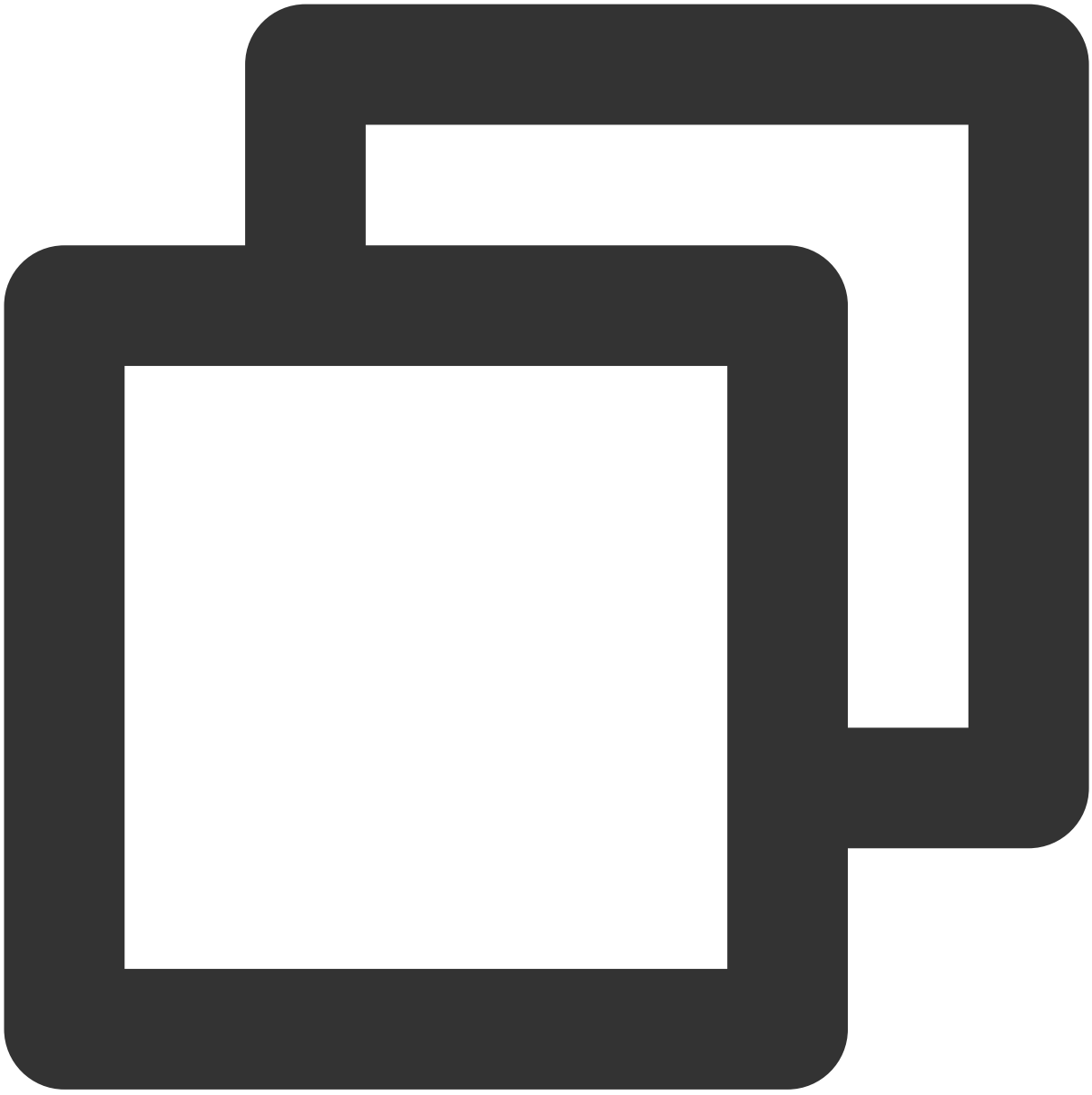
Querying template list

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Feature description

This API is used to query the template list.

Method prototype



```
def ci_get_asr_template(self, Bucket, Category='Custom', Ids='', Name='', PageNumbe
```

Parameter description

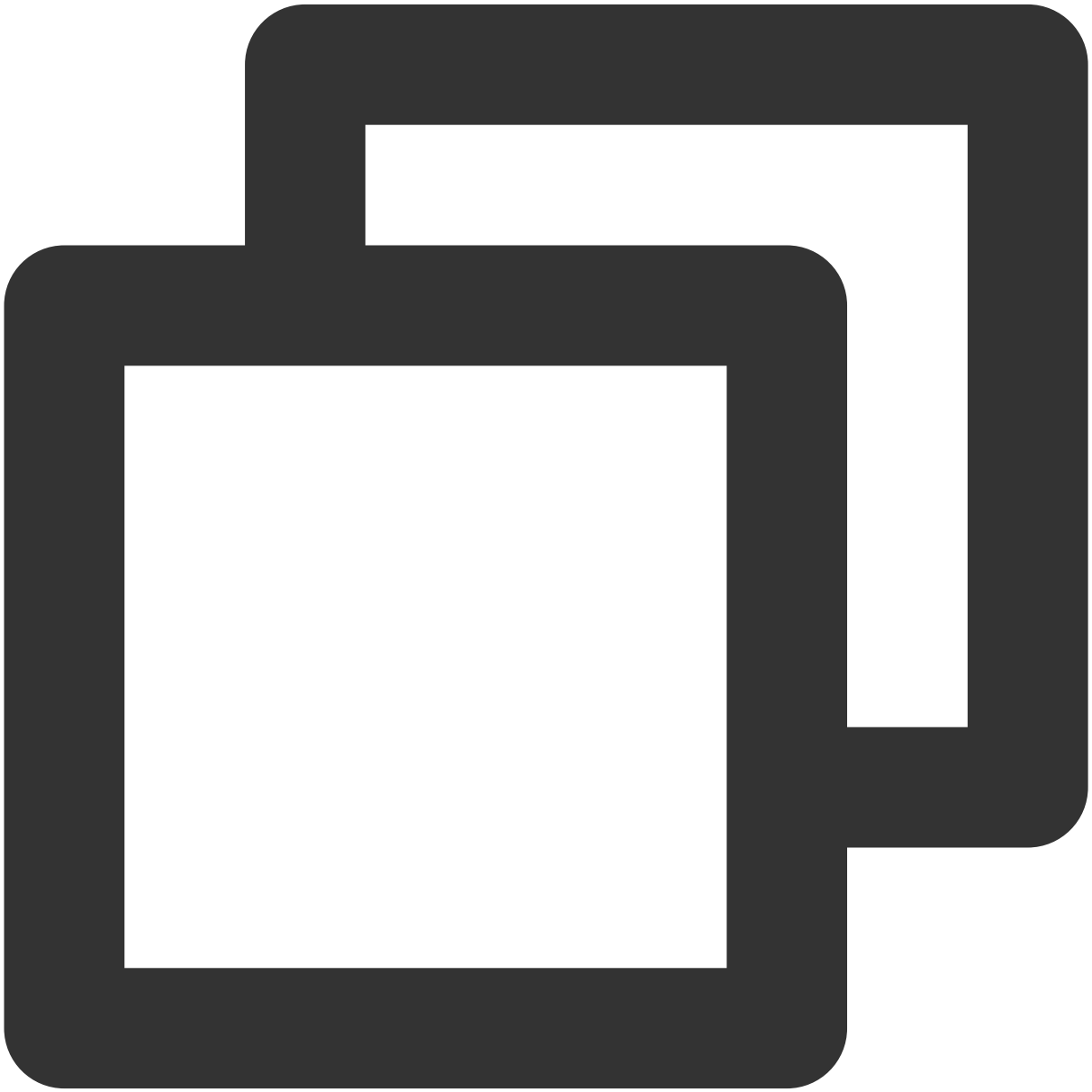
Parameter	Description	Type	Required

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Bucket	Bucket name in the format of `BucketName-APPID`. For more information, see Bucket Overview.	String	Yes
Category	Template category: `Custom` or `Official`. Default value: `Custom`.	String	No
Ids	Template ID. If you enter multiple IDs, separate them by comma.	String	No
Name	Template name prefix	String	No
PageNumber	Page number	Integer	No
PageSize	Number of entries per page	Integer	No

Sample request

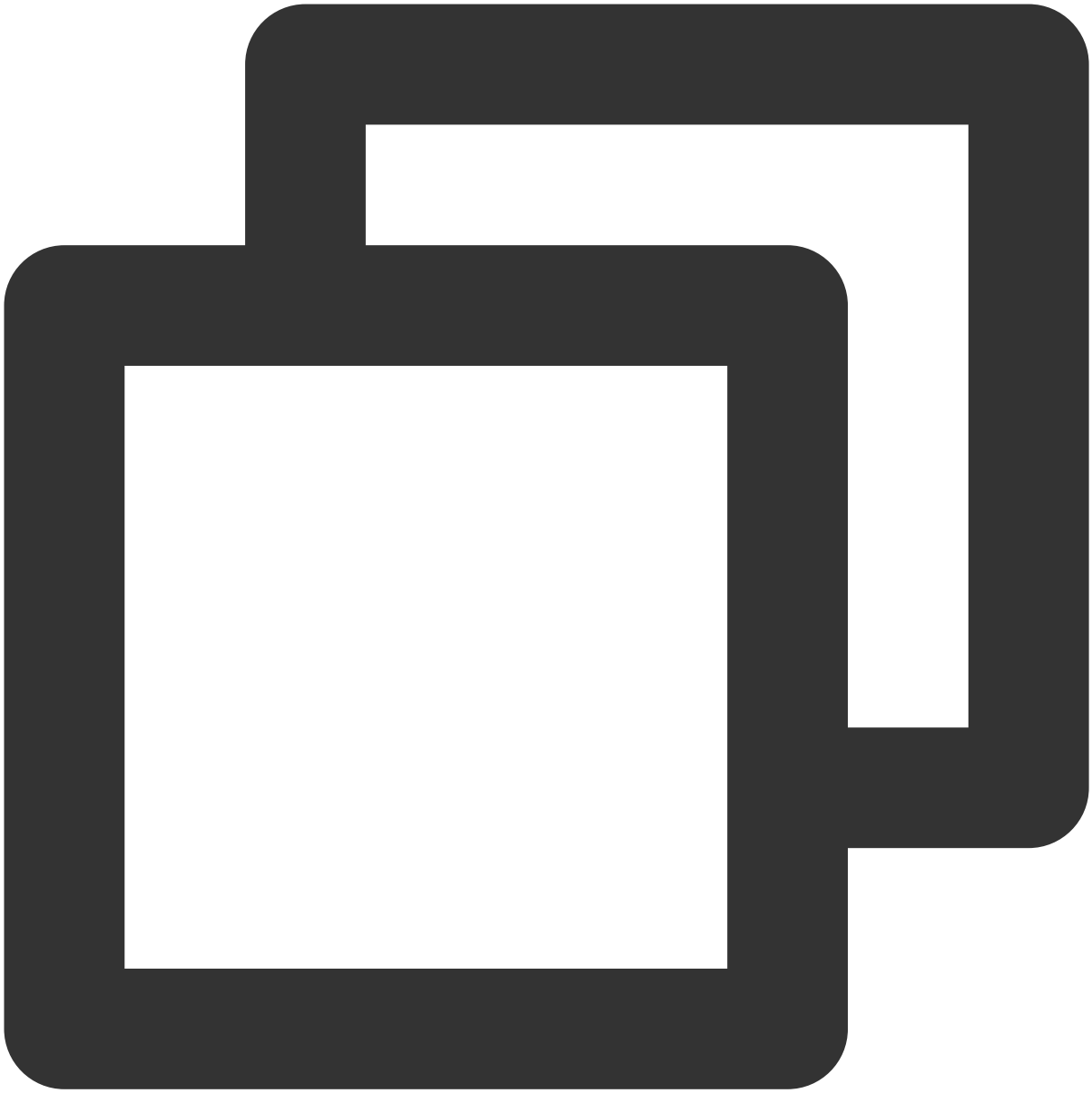
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```
def ci_get_asr_template():
    # Get the information of speech recognition templates
    response = client.ci_get_asr_template(
        Bucket=bucket_name,
    )
    print(response)
    return response
```

Response description

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```
{
    'TotalCount': '1',
    'RequestId': 'NjMyMjljNTlfMTIwNjUzMDlfMmUzYV8xMWNh',
    'PageNumber': '1',
    'PageSize': '10',
    'TemplateList': [
        {
            'TemplateId': 't1c1287c04c147443da0b2cc7b8fbabf32',
            'Name': 'templateName',
            'State': 'Normal',
            'Tag': 'SpeechRecognition',
```

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```
            'CreateTime': '2022-09-15T11:25:19+0800',
            'UpdateTime': '2022-09-15T11:25:19+0800',
            'BucketId': 'testpic-1253960454',
            'Category': 'Custom',
            'SpeechRecognition': {
                'EngineModelType': '16k_zh',
                'ChannelNum': '1',
                'ResTextFormat': '2',
                'FilterDirty': '0',
                'FilterModal': '0',
                'ConvertNumMode': '0',
                'SpeakerDiarization': '0',
                'SpeakerNumber': '0',
                'FilterPunc': '0',
                'OutputFileType': 'txt'
            }
        }
    ]
}
```

For more information on response fields, see the response in DescribeTemplates.

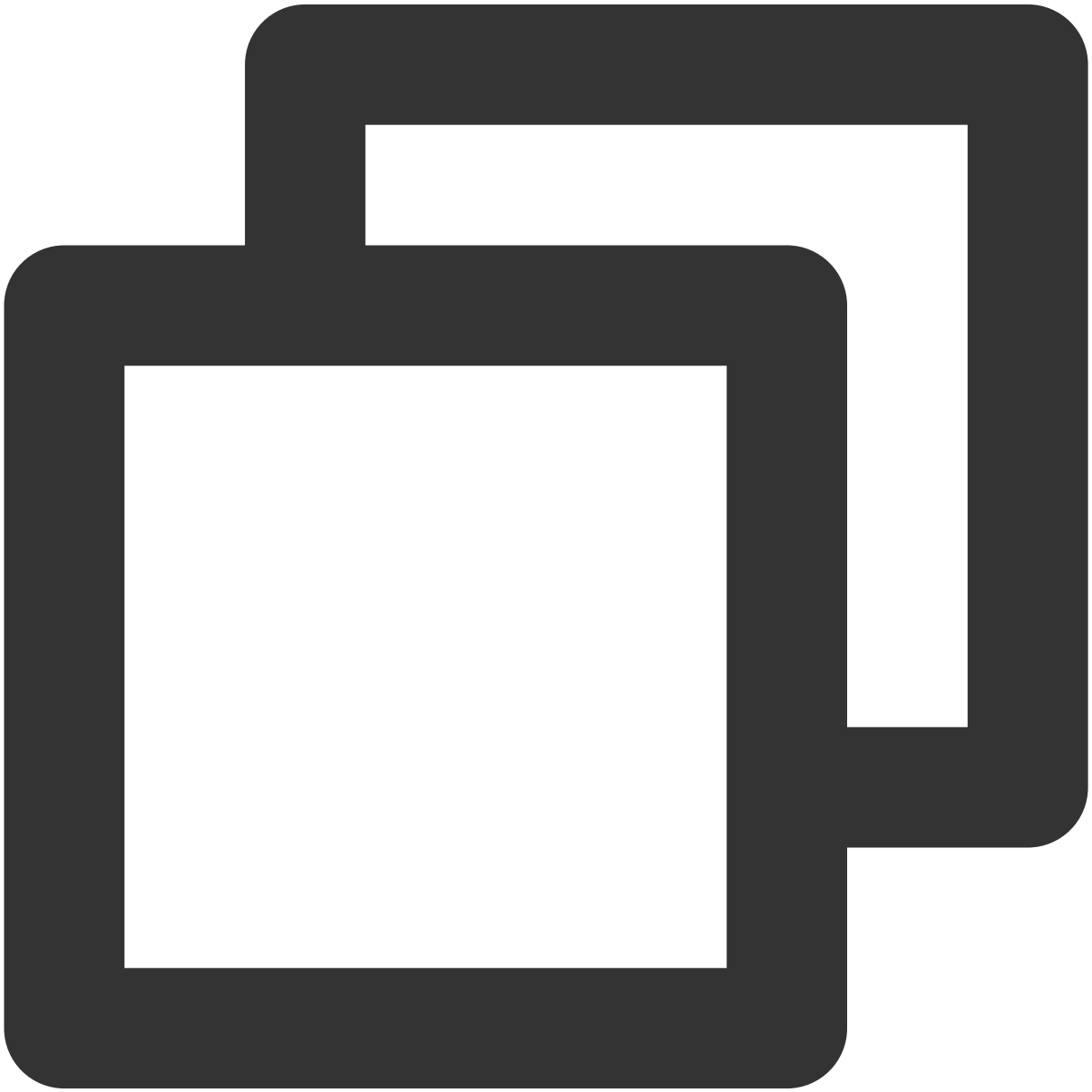
Modifying template

Feature description

This API is used to modify a template.

Method prototype

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```
def ci_update_asr_template(self, Bucket, TemplateId, Name, EngineModelType, Channel
                           ResTextFormat, FilterDirty=0, FilterModal=0, ConvertNumM
                           SpeakerNumber=0, FilterPunc=0, OutputFileType='txt', **k
```

Parameter description

Node Name (Keyword)	Description	Type	Required
bucketName	Bucket name in the format of `BucketName-APPID` . For more	String	Yes

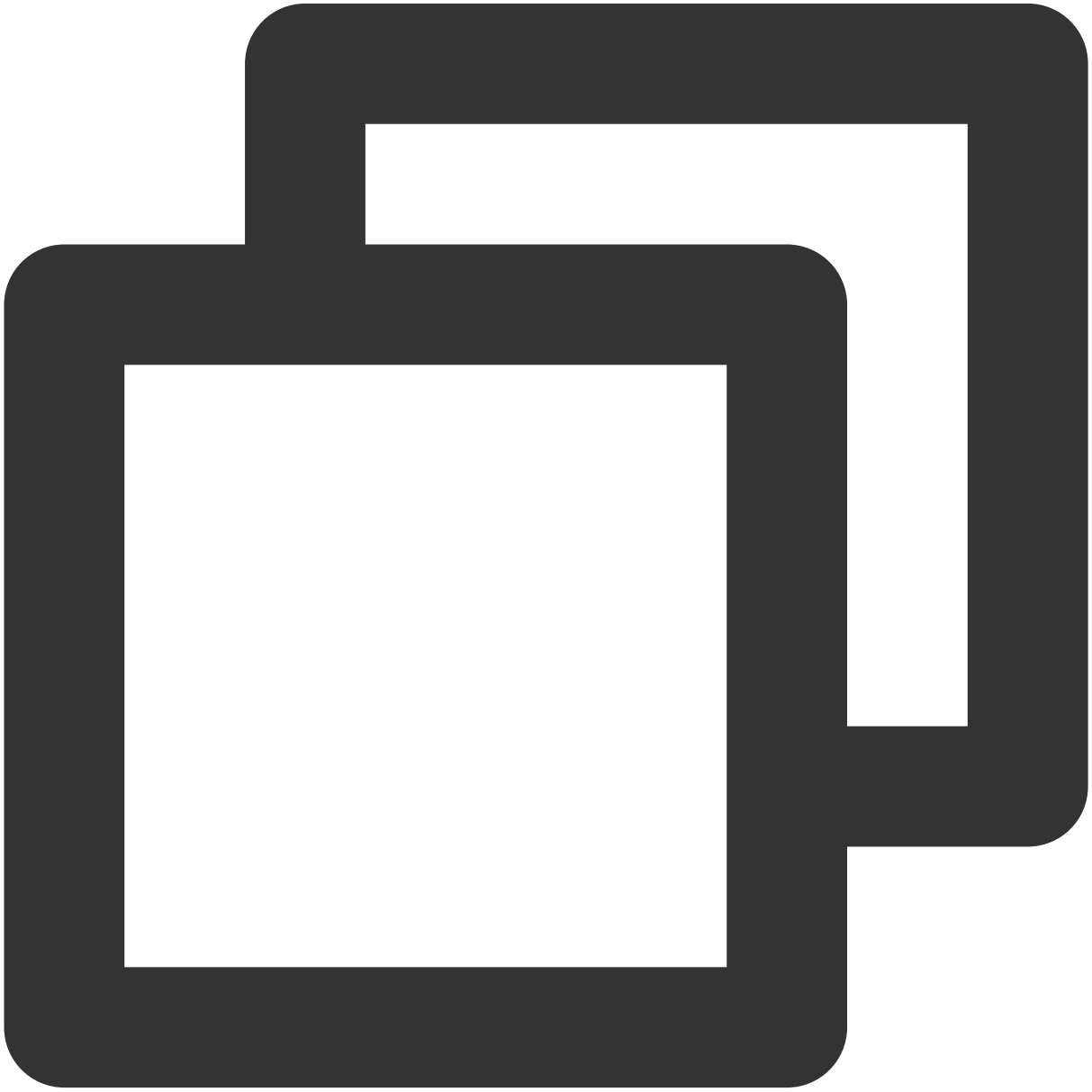
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	information, see Bucket Overview.		
templateId	ID of the template to be modified	String	Yes

Note:

Other parameters are the same as those of the template creation API as described in Creating Speech Recognition Template.

Sample request

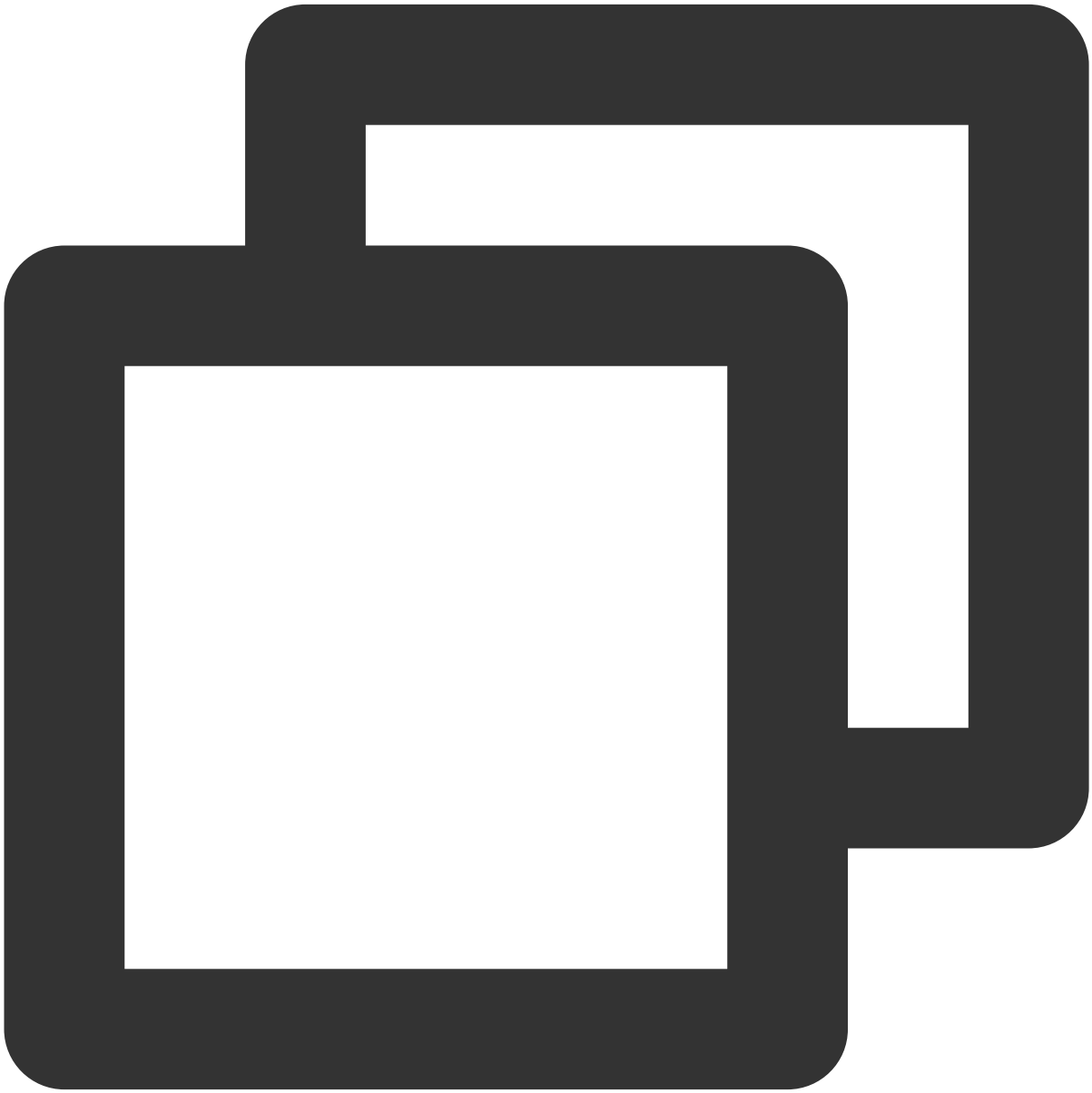


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```
def ci_update_asr_template():
    # Modify a speech recognition template
    response = client.ci_update_asr_template(
        Bucket=bucket_name,
        TemplateId='t1bdxxxxxxxxxxxxxxx94a9',
        Name='QueueId1',
        EngineModelType='16k_zh',
        ChannelNum=1,
        ResTextFormat=1,
    )
    print(response)
    return response
```

Response description

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```
{
    'RequestId': 'NjMyMjlkNzhfMTIwNjUzMDlfMmUxZF8xMGM4',
    'Template': {
        'TemplateId': 't1c1287c04c147443da0b2cc7b8fbabf32',
        'Name': 'QueueId1',
        'State': 'Normal',
        'Tag': 'SpeechRecognition',
        'CreateTime': '2022-09-15T11:25:19+0800',
        'UpdateTime': '2022-09-15T11:35:20+0800',
        'BucketId': 'testpic-1253960454',
        'Category': 'Custom',
```


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```
        'SpeechRecognition': {
            'EngineModelType': '16k_zh',
            'ChannelNum': '1',
            'ResTextFormat': '1',
            'FilterDirty': '0',
            'FilterModal': '0',
            'ConvertNumMode': '0',
            'SpeakerDiarization': '0',
            'SpeakerNumber': '0',
            'FilterPunc': '0',
            'OutputFileType': 'txt'
        }
    }
}
```

For more information on response fields, see the response in Updating Speech Recognition Template.

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File Processing
File Decompression
Querying File Decompression Result

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for querying the file decompression result.

API	Description
Querying the file decompression result	Queries the file decompression result asynchronously.

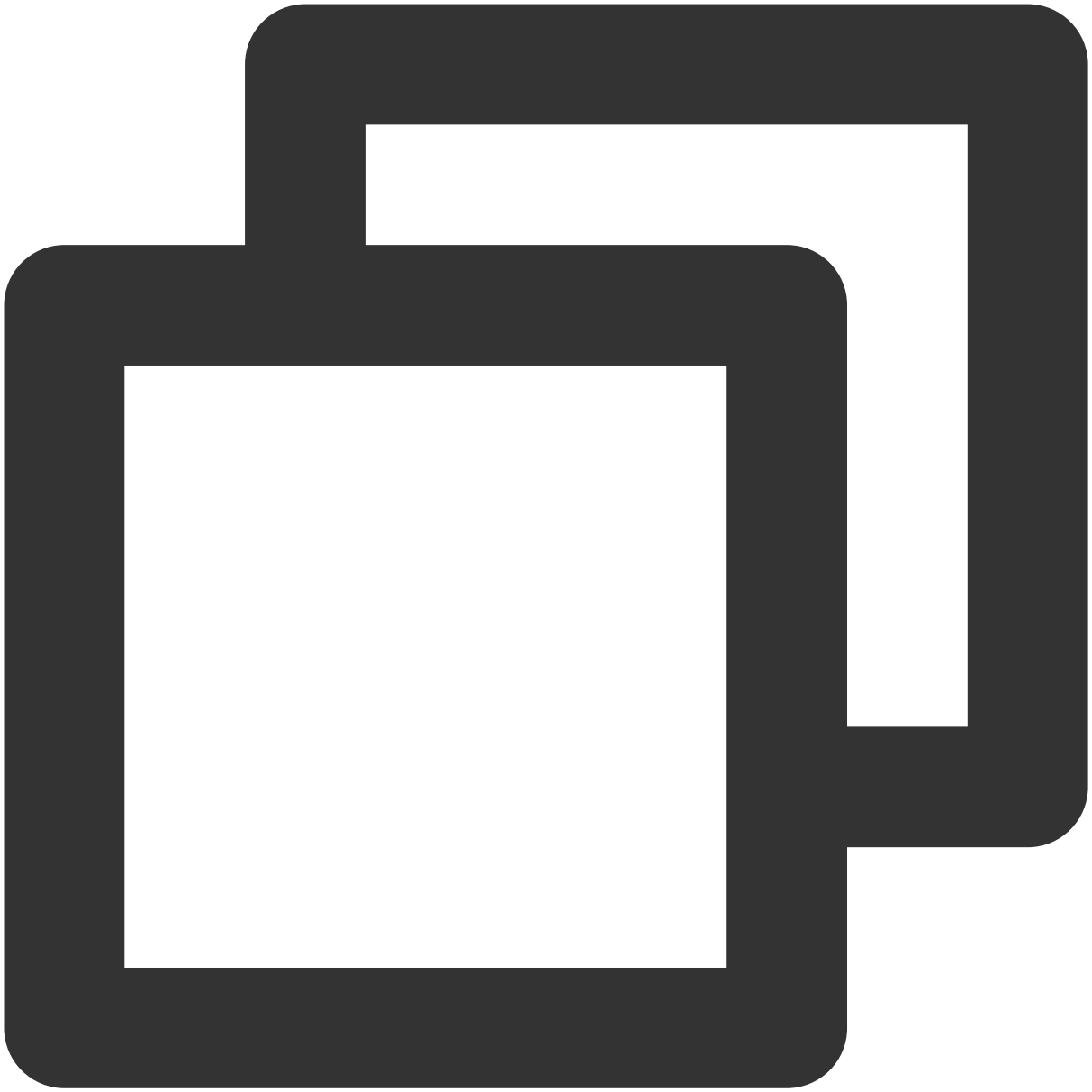
Async Request API

Feature description

This API is used to query the file decompression result asynchronously.

Method prototype

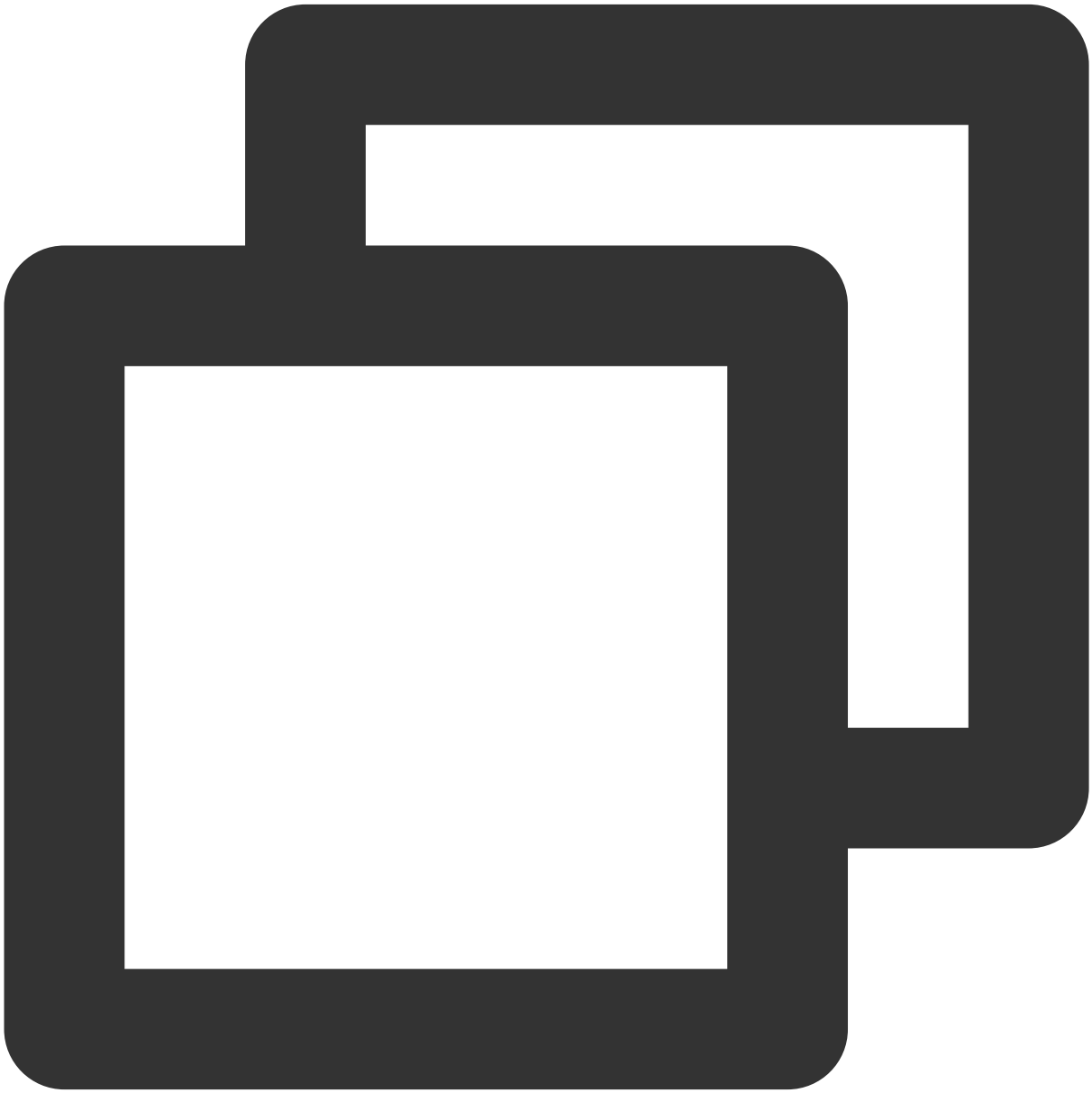
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```
def ci_get_file_process_jobs(self, Bucket, JobIDs, **kwargs)
```

Sample request

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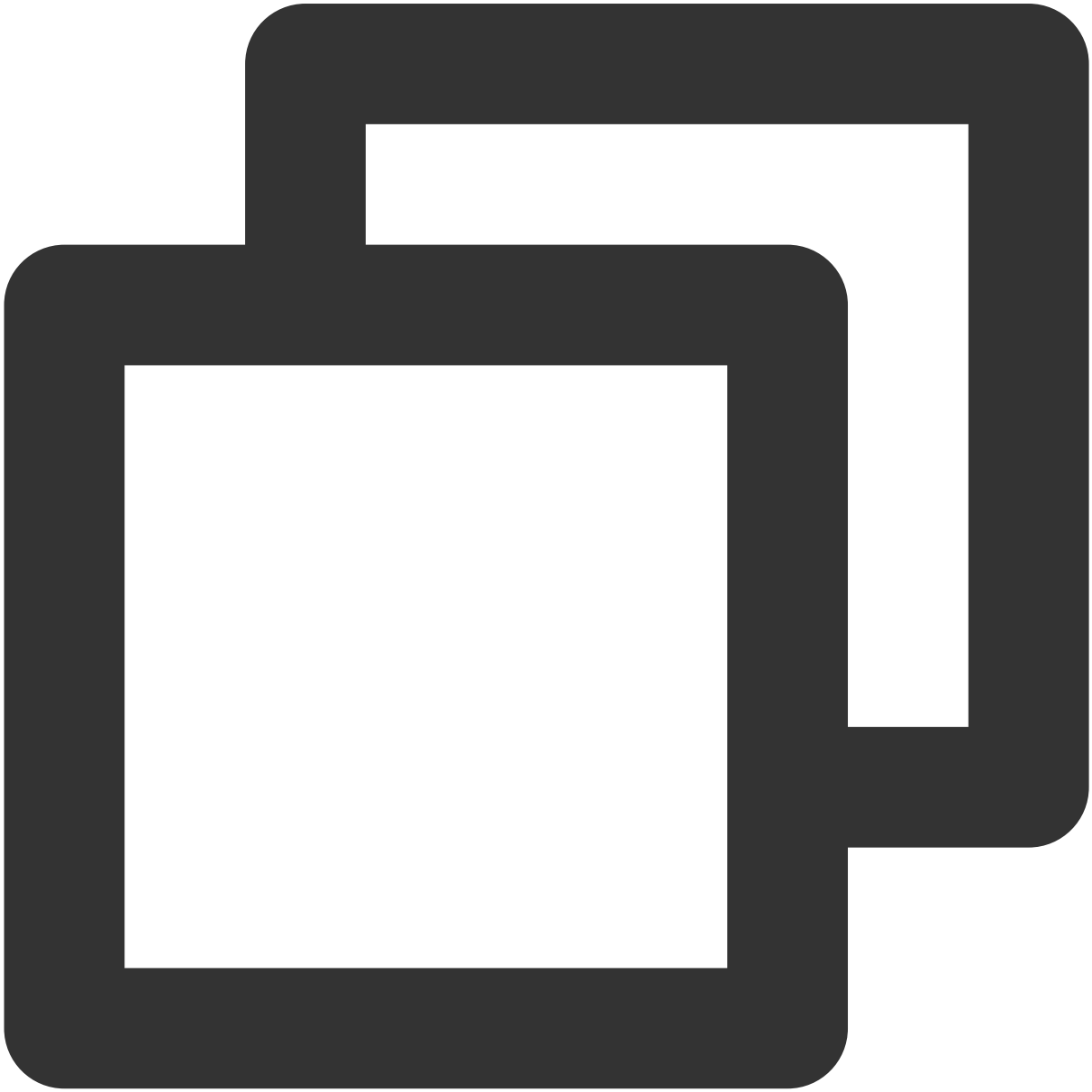
```
def ci_get_file_process_jobs():
    response = client.ci_get_file_process_jobs(
        Bucket=bucket_name,
        JobIDs='fcb9a9f90e57611ed9************',
    )
    print(response)
    return response
```

Parameter description

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Parameter	Description	Type
Bucket	Bucket of the object	String
JobIDs	Job ID. To specify multiple job IDs, separate them with commas (,).	String

Response description



```
{
    "Response": {
```

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```
        "JobsDetail": {
        "Code": "Success",
        "Message": "",
        "JobId": "f93984788066911ed89ed352d4d9d2084",
        "State": "Submitted",
        "CreationTime": "2022-07-18T15:4:43 PM+0800",
        "EndTime": "-",
        "StartTime": "-",
        "QueueId": "p2911917386e148639319e13c285cc774",
        "Tag": "FileUncompress",
        "Input": {
            "BucketId": "test-1234567890",
            "Object": "input/test.zip",
            "Region": "ap-chongqing"
        },
        "Operation": {
            "FileUncompressConfig": {
                "Prefix": "output/",
                "PrefixReplaced": 1
            },
            "Output": {
                "Region": "ap-chongqing",
                "Bucket": "test-1234567890"
            },
            "UserData": "This is my data."
        }
        }
    }
}
```


Parameter	Description	Type
Response	Response details. For more information, see "Response" in Querying File Decompression Result.	dict

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Submitting File Decompression Job

Last updated：2024-03-01 14:57:12

Overview

This document provides an overview of APIs and SDK code samples for async file decompression requests.

API	Description
Submitting a file decompression job	Submits a file decompression job asynchronously.

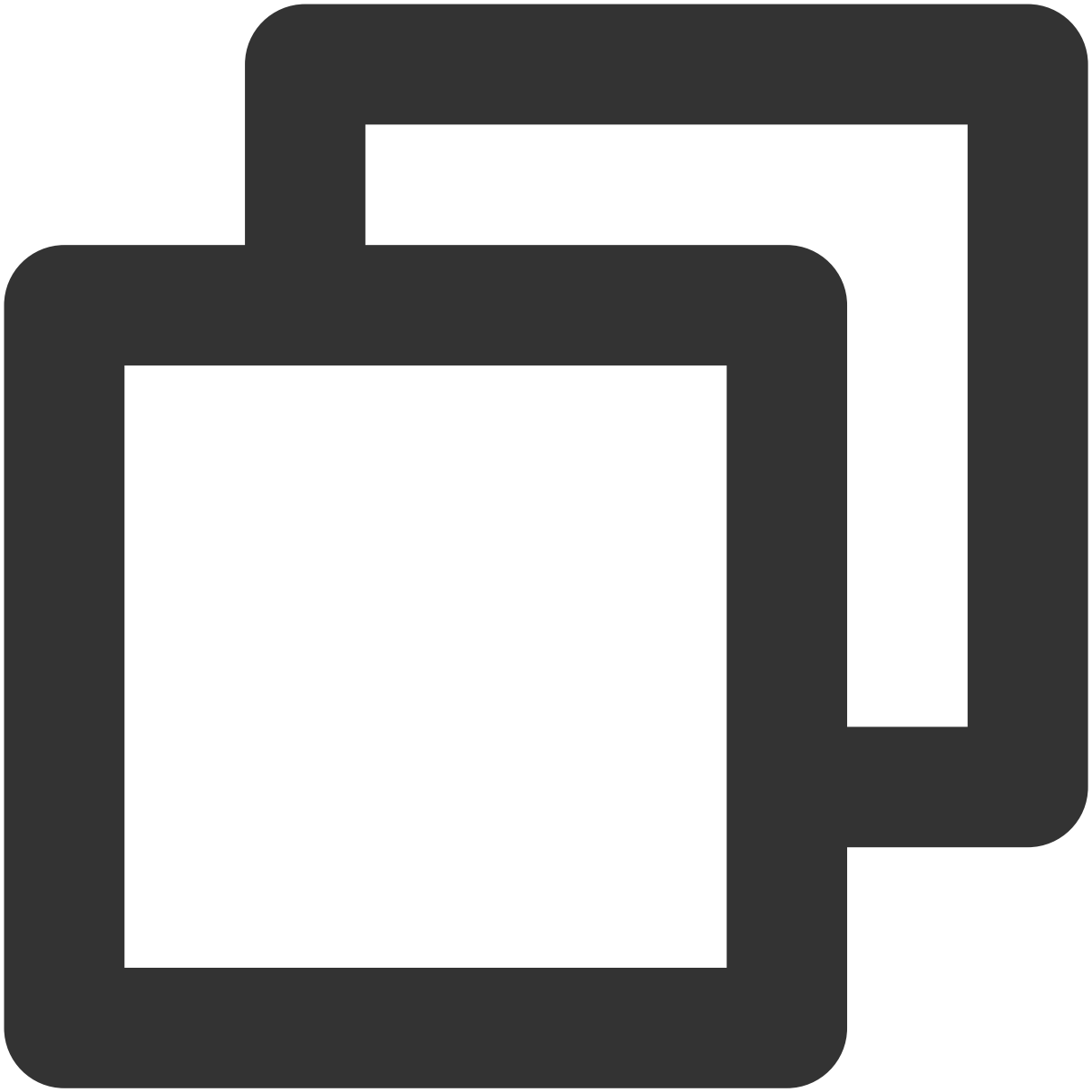
Async Request API

Feature description

This API is used to submit an async file decompression request.

Method prototype

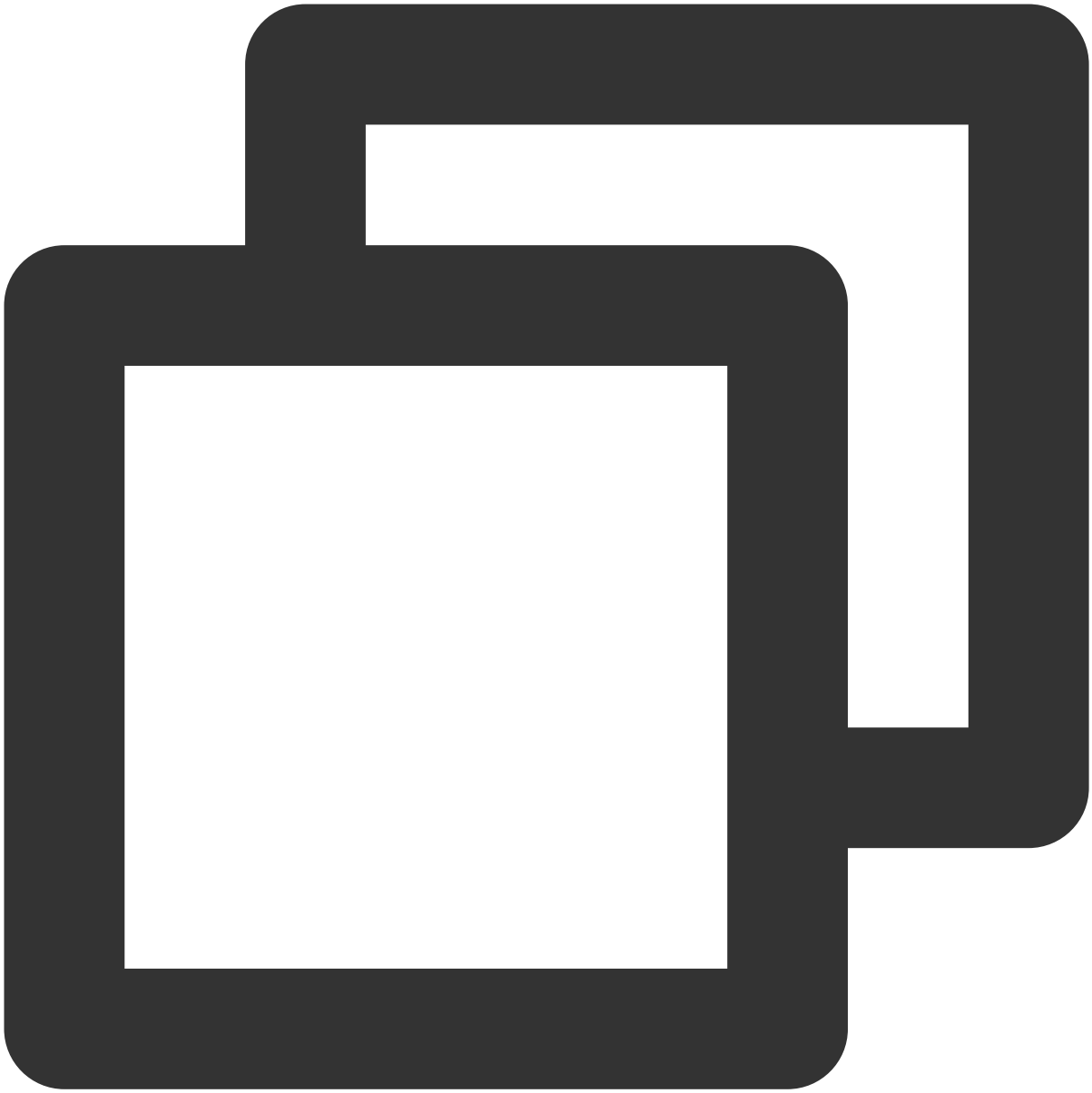
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```
def ci_create_file_uncompress_job(self, Bucket, InputObject,
    FileUncompressConfig, QueueId=None, CallBack=None, CallBackFormat=None,
    CallBackType=None, CallBackMqConfig=None, UserData=None, **kwargs)
```

Sample request

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```
def ci_create_file_uncompress_job():
    body = {
        'Prefix': 'output/',
    }
    response = client.ci_create_file_uncompress_job(
        Bucket=bucket_name,
        InputObject='test.zip',
        FileUncompressConfig=body
    )
    print(response)
    return response
```

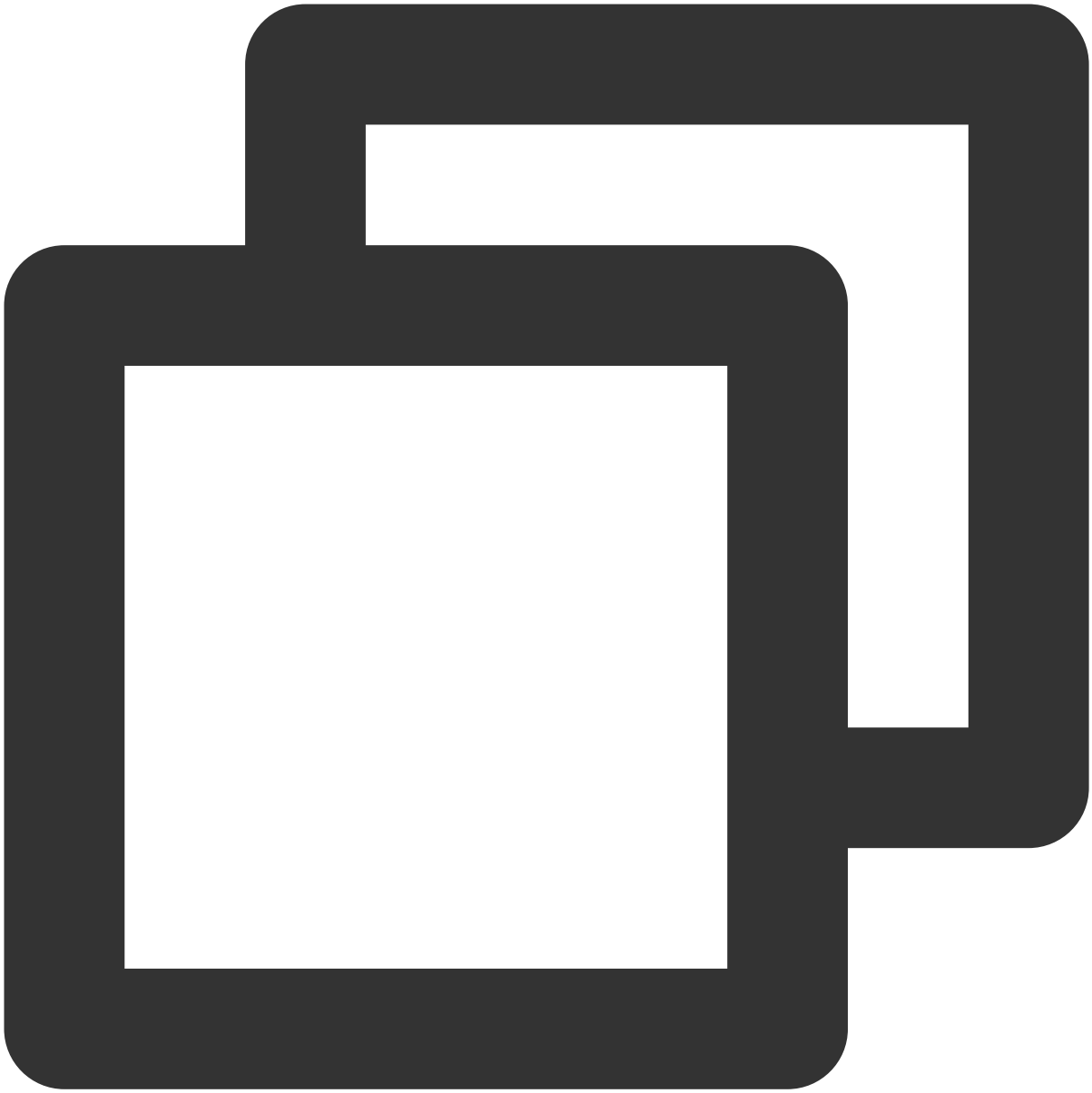
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Parameter description

Parameter	Description	Type
Bucket	Bucket of the object	String
InputObject	Object name, such as `folder/document.pdf`	String
FileUncompressConfig	File decompression rule. For more information, see "FileUncompressConfig" in Submitting File Decompression Job.	dict
QueueId	ID of the queue where the job is in	String
CallBack	Job callback address, which takes priority over that of the queue. If it is set to `no`, no callbacks will be generated at the callback address of the queue.	string
CallBackFormat	Job callback format, which can be `JSON` or `XML` (default). It takes priority over that of the queue.	string
CallBackType	Job callback type, which can be `Url` (default) or `TDMQ`. It takes priority over that of the queue.	string
CallBackMqConfig	TDMQ configuration for job callback. This parameter is required if `CallBackType` is `TDMQ`. For more information, see "CallBackMqConfig" in Structure.	dict
UserData	The user information passed through, which is printable ASCII codes of up to 1,024 in length.	String

Response description

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```
{
    "Response": {
        "JobsDetail": {
        "Code": "Success",
        "Message": "",
        "JobId": "f93984788066911ed89ed352d4d9d2084",
        "State": "Submitted",
        "CreationTime": "2022-07-18T15:4:43 PM+0800",
        "EndTime": "-",
        "StartTime": "-",
        "QueueId": "p2911917386e148639319e13c285cc774",
```


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```
        "Tag": "FileUncompress",
        "Input": {
            "BucketId": "test-1234567890",
            "Object": "input/test.zip",
            "Region": "ap-chongqing"
        },
        "Operation": {
            "FileUncompressConfig": {
                "Prefix": "output/",
                "PrefixReplaced": 1
            },
            "Output": {
                "Region": "ap-chongqing",
                "Bucket": "test-1234567890"
            },
            "UserData": "This is my data."
        }
        }
    }
}
```

Parameter	Description	Type
Response	Response details. For more information, see "Response" in Submitting File Decompression Job.	dict

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Mini Program SDK
Getting Started

Last updated：2024-03-01 15:15:09

Download and Installation

Relevant resources

Download COS XML SDK source code for Weixin Mini Programs source code here XML SDK for Weixin Mini Program.

Download the XML mini program SDK here.

Download the demo here XML SDK for Weixin Mini Program Demo.

For the complete sample code, see SDK Sample Code.

For the SDK changelog, see Changelog.

For SDK FAQs, see Mini Program SDK FAQs.

Note:

If you encounter errors such as non-existent functions or methods when using the SDK, you can update the SDK to the latest version and try again.

Environmental dependencies

1. This SDK is only applicable to WeChat Mini Programs.
2. Log in to the COS console, create a bucket, and get the bucket name and region information.
3. Log in to the CAM console and get your project's `SecretId` and `SecretKey`.

Note:

For the definition of parameters such as `SecretId`, `SecretKey`, and `Bucket`, see COS's Glossary.

If you are using cross platform framework such as uni-app, and encounter problems when packaging the app (such as iOS or Android app), use the iOS SDK or Android SDK.

SDKs on versions earlier than v1.2.0 support the `XCosSecurityToken` field only. For later SDKs, use `SecurityToken` instead.

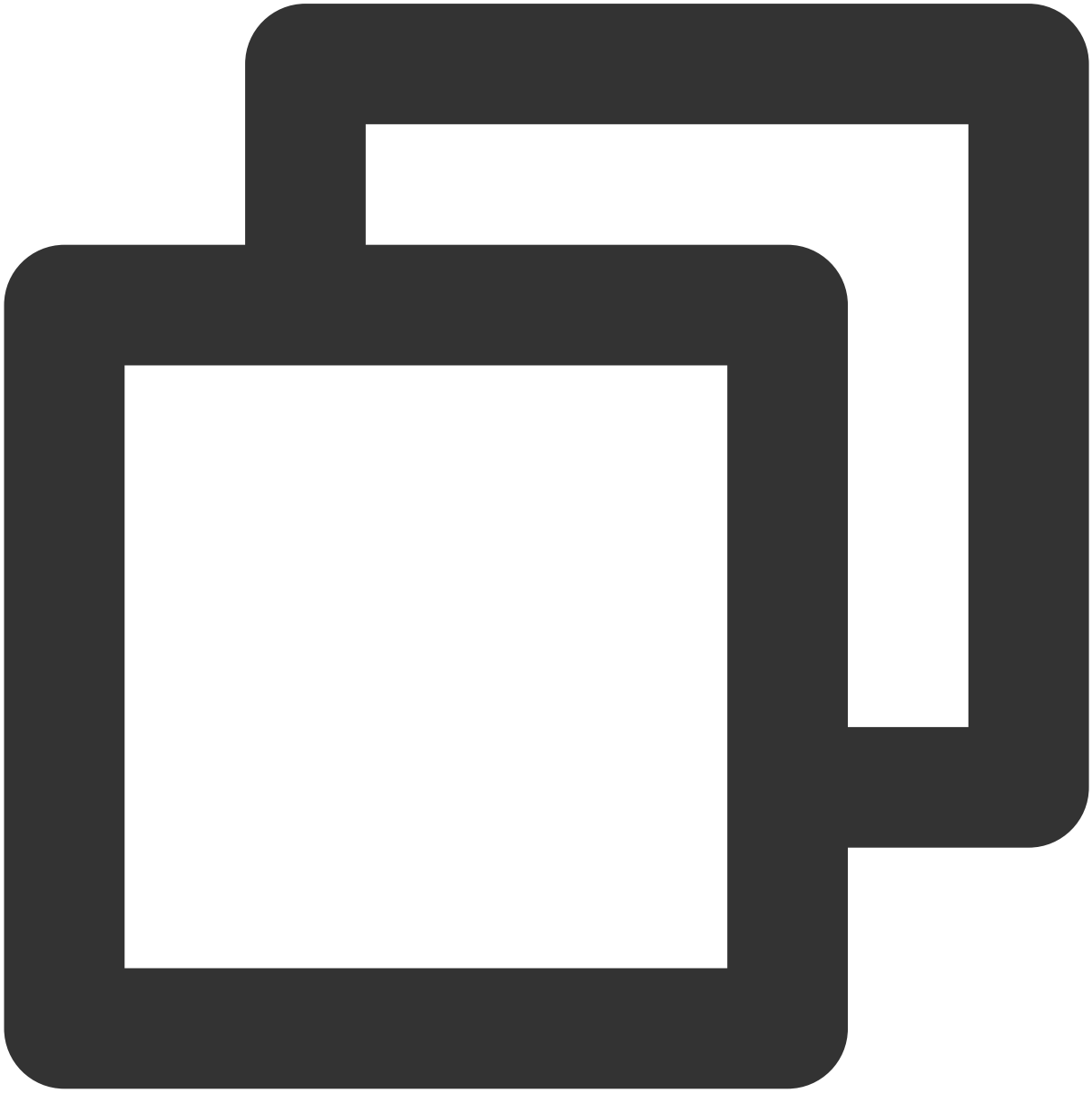
Installing SDK

There are two ways to install the SDK for WeChat Mini Programs: manual installation and installation through npm as detailed below.

Installing manually

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Copy the cos-wx-sdk-v5.js file in the source code directory to any path in the root directory of your WeChat Mini Program code and reference it using a relative path:

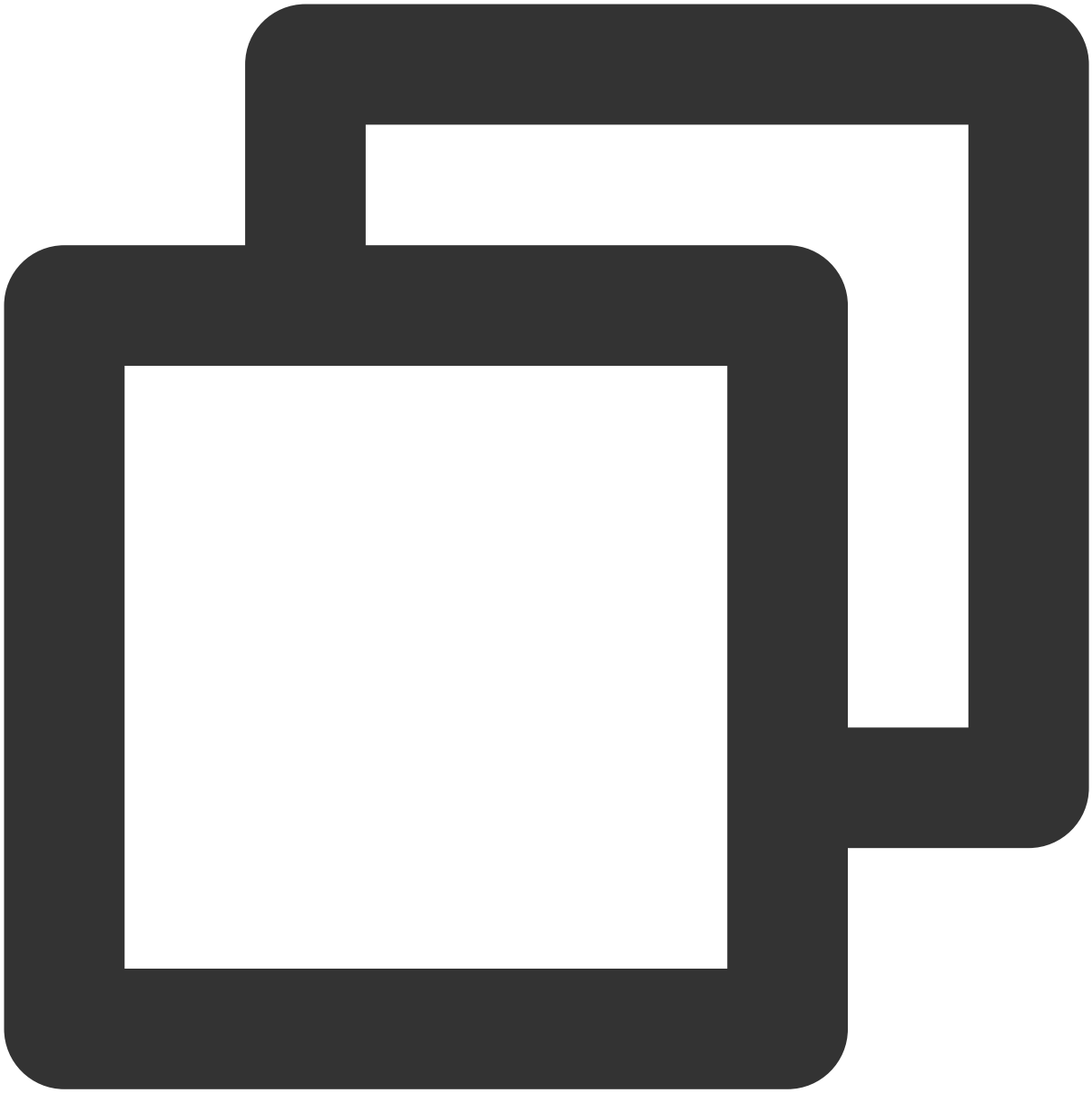


```
var COS = require('./lib/cos-wx-sdk-v5.js')
```

Installing through npm

If the code of your WeChat Mini Program is packaged using webpack, install the dependencies via npm:

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```
npm install cos-wx-sdk-v5
```

Here, the program code is referenced by using `var COS = require('cos-wx-sdk-v5');` . For more information, see Support for npm.

Getting Started

Configuring domain name allowlist for Weixin Mini Programs

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To request COS in your WeChat Mini Program, you need to log in to the WeChat Official Accounts Platform and configure the domain name allowlist in **Development** > **Development Settings** > **Server Domain Name**. The SDK uses the following two APIs:

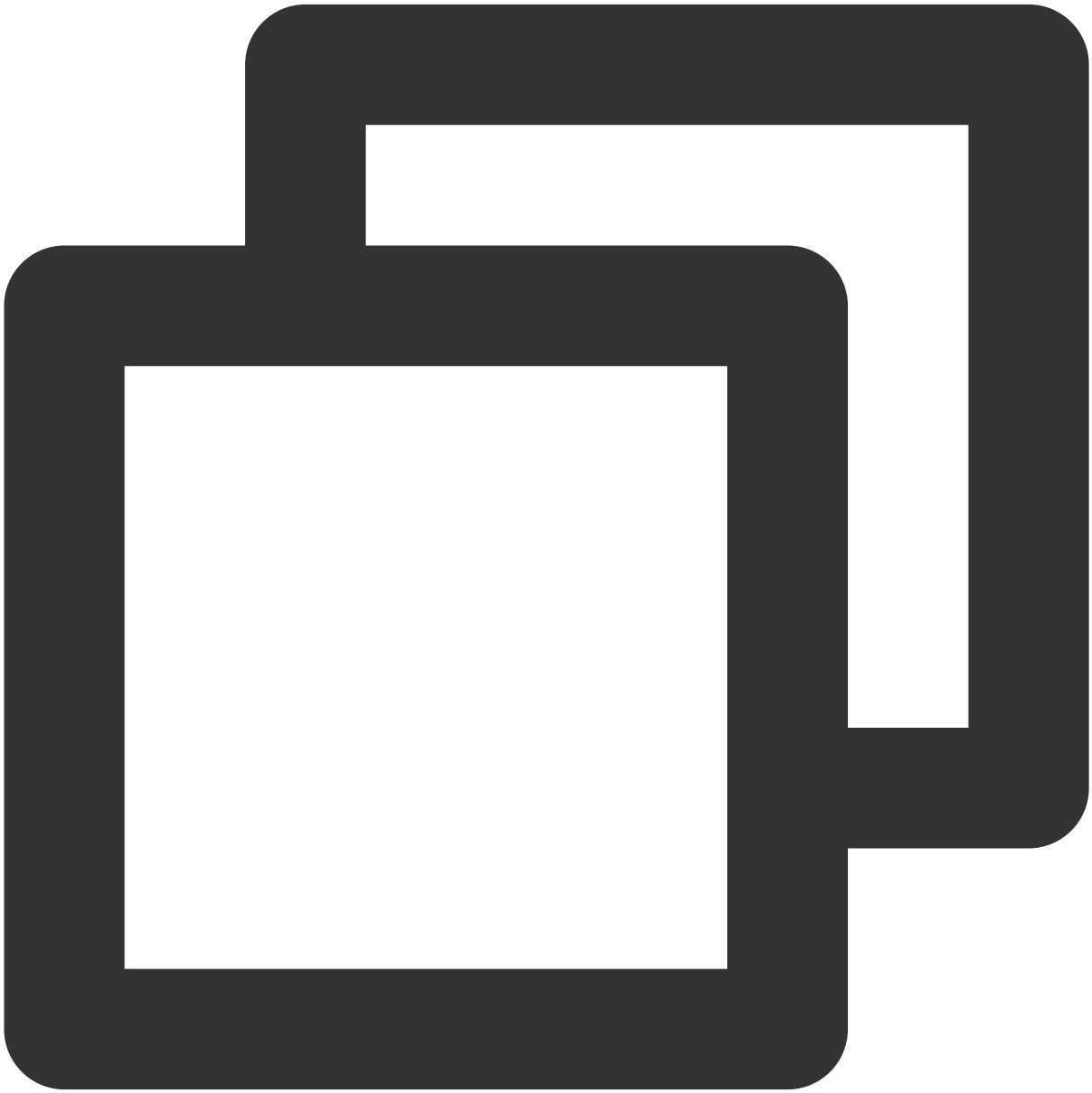
1. For cos.postObject, use the wx.uploadFile API.
2. For other methods, use the wx.request API.

For both methods, you need to configure the COS domain name. There are two forms of domain name allowlists.

1. For standard requests, you can configure the bucket domain name as the allowed domain name, for example: `examplebucket-1250000000.cos.ap-guangzhou.myqcloud.com`
2. If multiple buckets are used in your WeChat Mini Program, you can choose to use suffixed COS requests by passing in `ForcePathStyle: true` when instantiating the SDK. In this case, you need to configure the region domain name as the allowed domain name, such as `cos.ap-guangzhou.myqcloud.com` .

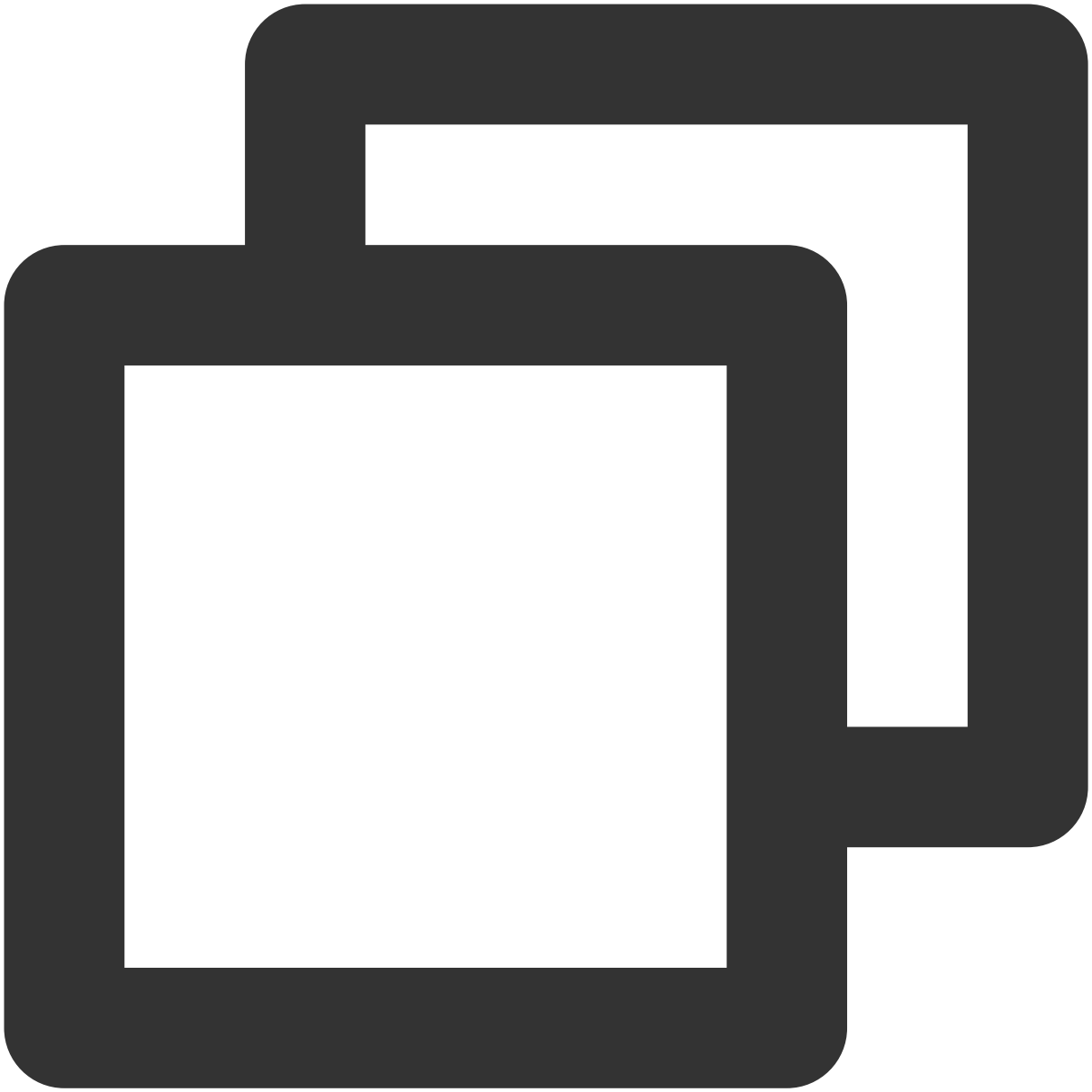
Initialization

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```
var COS = require('./lib/cos-wx-sdk-v5.js')
```

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```
var cos = new COS({
    // ForcePathStyle: true, // If multiple buckets are used, you can use suffixed
    SimpleUploadMethod: 'putObject', // We strongly recommend you use `putObject` w
    getAuthorization: function (options, callback) {
        // It will not be called during initialization and will be entered only whe
        // Get a temporary key asynchronously.
        wx.request({
            url: 'https://example.com/server/sts.php',
            data: {
                bucket: options.Bucket,
                region: options.Region,
```

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```
            },
            dataType: 'json',
            success: function (result) {
                var data = result.data;
                var credentials = data && data.credentials;
                if (!data || !credentials) return console.error('credentials invali
                callback({
                    TmpSecretId: credentials.tmpSecretId,
                    TmpSecretKey: credentials.tmpSecretKey,
                    // For SDKs on versions earlier than v1.2.0, use `XCosSecurityT
                    SecurityToken: credentials.sessionToken,
                    // We recommend that you use the server time as the signature s
                    StartTime: data.startTime, // Timestamp in seconds, such as 158
                    ExpiredTime: data.expiredTime, // Timestamp in seconds, such as
                });
            }
        });
    }
});

// The COS instance can then be used to call a COS request.
// TODO
```

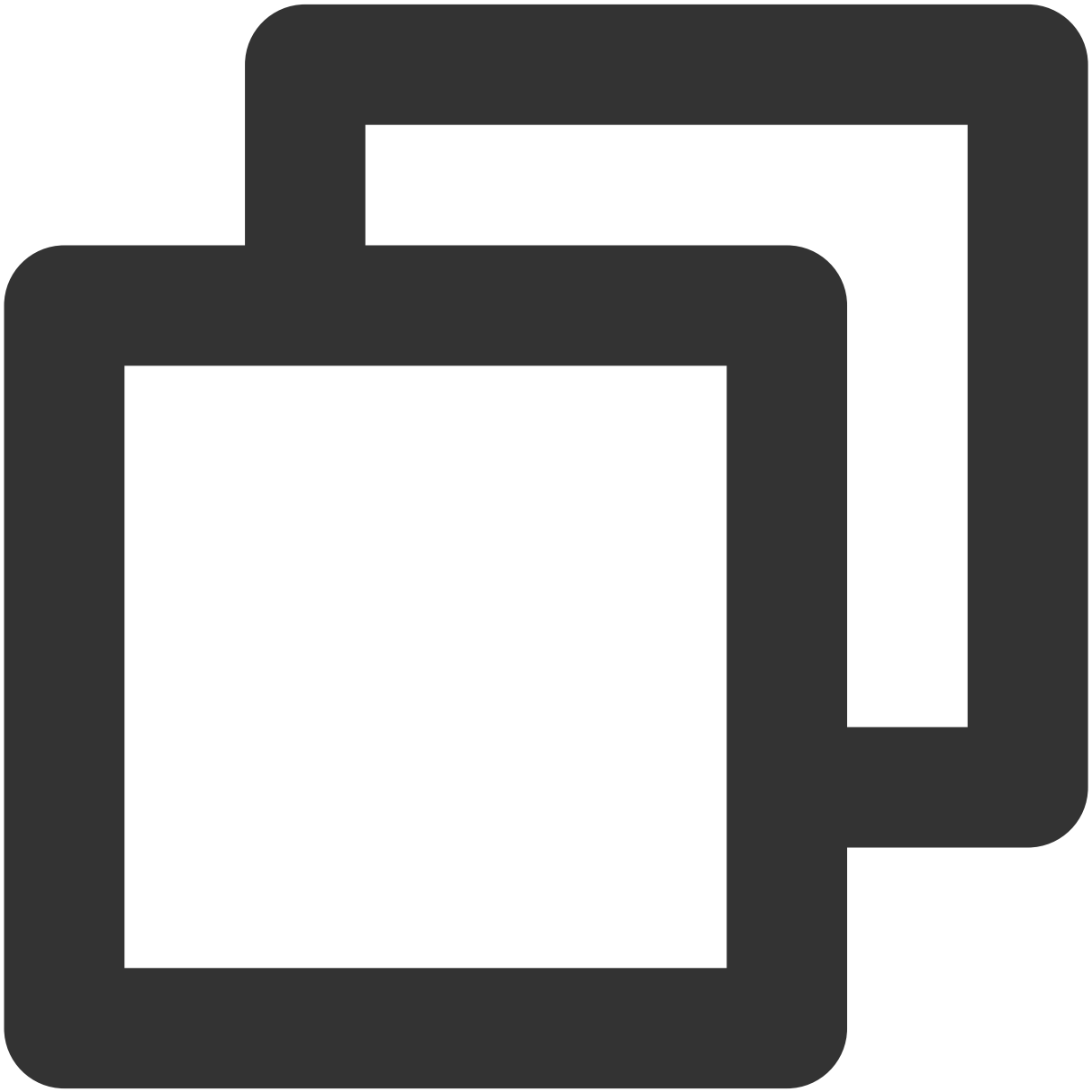
Configuration item

Sample code

Create a COS SDK instance in the following methods:

Method 1 (recommended): The backend gets a temporary key and sends it to the frontend for signature calculation.

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```
var cos = new COS({
    SimpleUploadMethod: 'putObject', // We strongly recommend you use `putObject` w
    // Required parameter
    getAuthorization: function (options, callback) {
        // Server examples for JS and PHP: https://github.com/tencentyun/cos-js-sdk
        // For server-side examples for other programming languages, see the COS SD
        // For the STS documentation, visit https://intl.cloud.tencent.com/document
        wx.request({
            url: 'https://example.com/server/sts.php',
            data: {
                // The required parameters can be obtained from options.
```

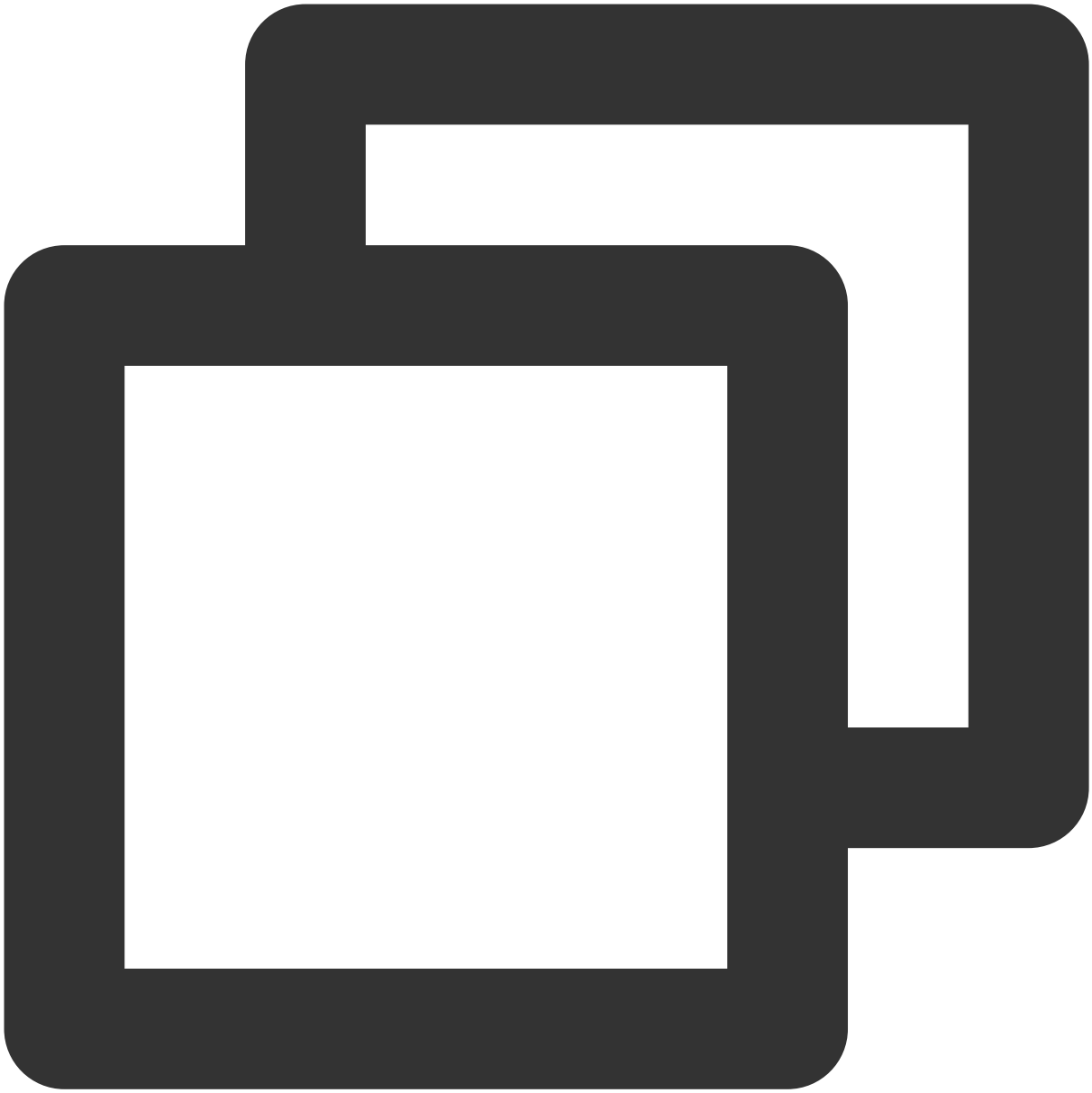
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```
            },
            success: function (result) {
                var data = result.data;
                var credentials = data && data.credentials;
                if (!data || !credentials) return console.error('credentials invali
                callback({
                    TmpSecretId: credentials.tmpSecretId,
                    TmpSecretKey: credentials.tmpSecretKey,
                    // For SDKs on versions earlier than v1.2.0, use `XCosSecurityT
                    SecurityToken: credentials.sessionToken,
                    // We recommend that you use the server time as the signature s
                    StartTime: data.startTime, // Timestamp in seconds, such as 158
                    ExpiredTime: data.expiredTime, // Timestamp in seconds, such as
                });
            }
        });
    }
});
```

Note:

For more information about how to generate and use a temporary key, see Generating and Using Temporary Keys.
Method 2 (recommended): Permissions are controlled in a more refined manner. The backend gets a temporary key and sends it to the frontend. The frontend reuses the key only for the same request, and the backend can granularly manage permissions through Scope.

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```
var cos = new COS({
    SimpleUploadMethod: 'putObject', // We strongly recommend you use `putObject` w
    // Required parameter
    getAuthorization: function (options, callback) {
        // Server example: https://github.com/tencentyun/qcloud-cos-sts-sdk/edit/ma
        wx.request({
            url: 'https://example.com/server/sts-scope.php',
            data: JSON.stringify(options.Scope),
            success: function (result) {
                var data = result.data;
                var credentials = data && data.credentials;
```

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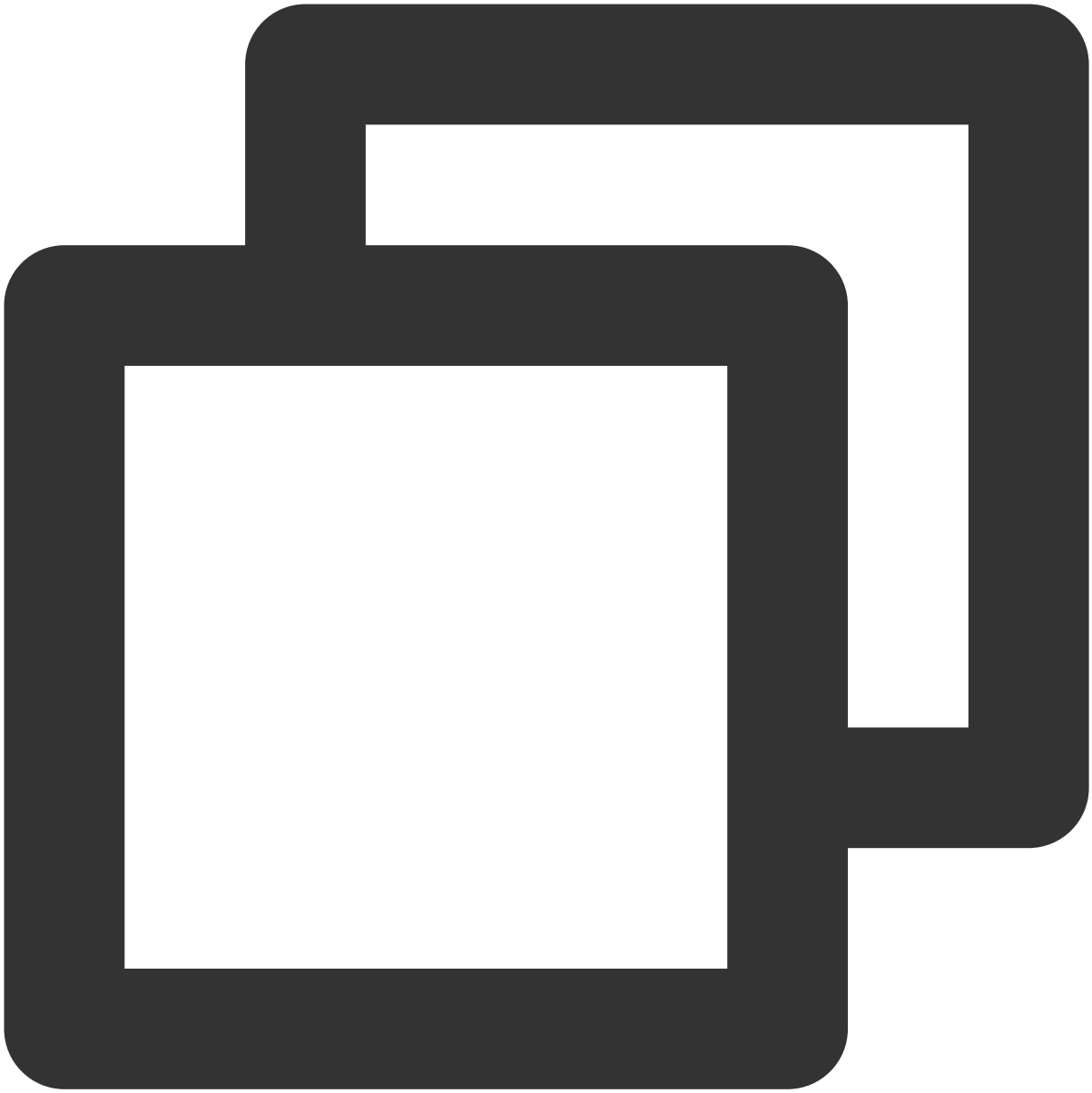
```
                if (!data || !credentials) return console.error('credentials invali
                callback({
                    TmpSecretId: credentials.tmpSecretId,
                    TmpSecretKey: credentials.tmpSecretKey,
                    // For SDKs on versions earlier than v1.2.0, use `XCosSecurityT
                    SecurityToken: credentials.sessionToken,
                    // We recommend that you use the server time as the signature s
                    StartTime: data.startTime, // Timestamp in seconds, such as 158
                    ExpiredTime: data.expiredTime, // Timestamp in seconds, such as
                    ScopeLimit: true, // Refined permission control needs to be set
                });
            }
        });
    }
});
```

Note:

For more information about how to generate and use a temporary key, see Generating and Using Temporary Keys.

Method 3 (not recommended). The frontend needs to get a signature through `getAuthorization` before each request, and the backend uses a fixed or temporary key to calculate the signature and returns it to the frontend. This method makes it difficult to control permissions for multipart upload and thus is not recommended.

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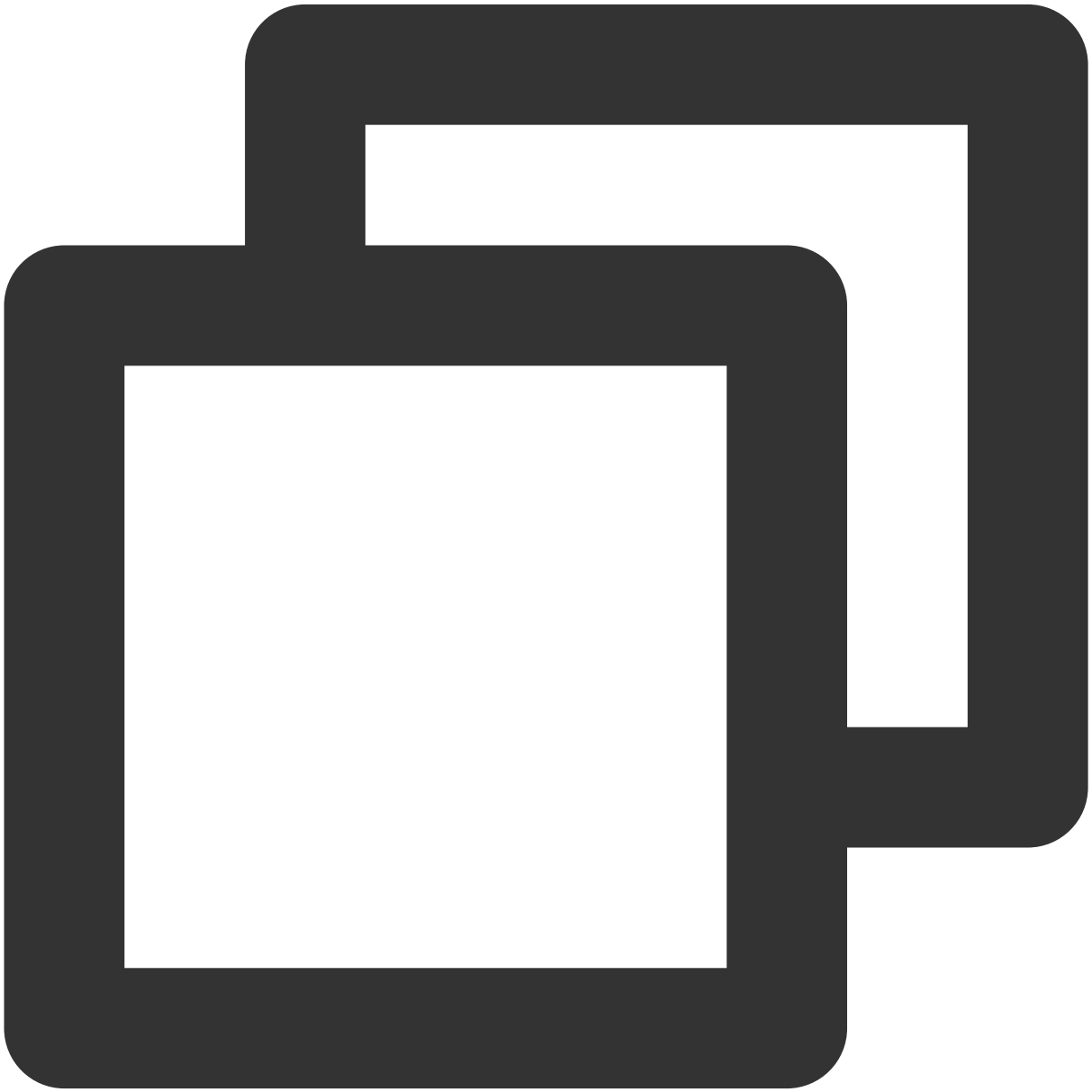
```
var cos = new COS({
    SimpleUploadMethod: 'putObject', // We strongly recommend you use `putObject` w
    // Required parameter
    getAuthorization: function (options, callback) {
        // The server obtains a signature. For more information, see the COS SDK fo
        // Note: There may be a security risk associated with this method. The back
        wx.request({
            url: 'https://example.com/server/auth.php',
            data: JSON.stringify(options.Scope),
            success: function (result) {
                var data = result.data;
```

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```
                if (!data || !data.authorization) return console.error('authorizati
                callback({
                    Authorization: data.authorization,
                    // For SDKs on versions earlier than v1.2.0, use `XCosSecurityT
                    // SecurityToken: data.sessionToken, // If a temporary key is u
                });
            }
        });
    },
});
```

Method 4 (not recommended): The frontend uses a permanent key to calculate the signature. This method can be used for frontend debugging. If you use this method, be sure to avoid key disclosure.

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```
// Log in to https://console.intl.cloud.tencent.com/cam/capi to check and manage th
var cos = new COS({
    SecretId: 'SECRETID',
    SecretKey: 'SECRETKEY',
    SimpleUploadMethod: 'putObject', // We strongly recommend you use `putObject` w
});
```

Constructor parameters

Parameter	Description	Type	Required

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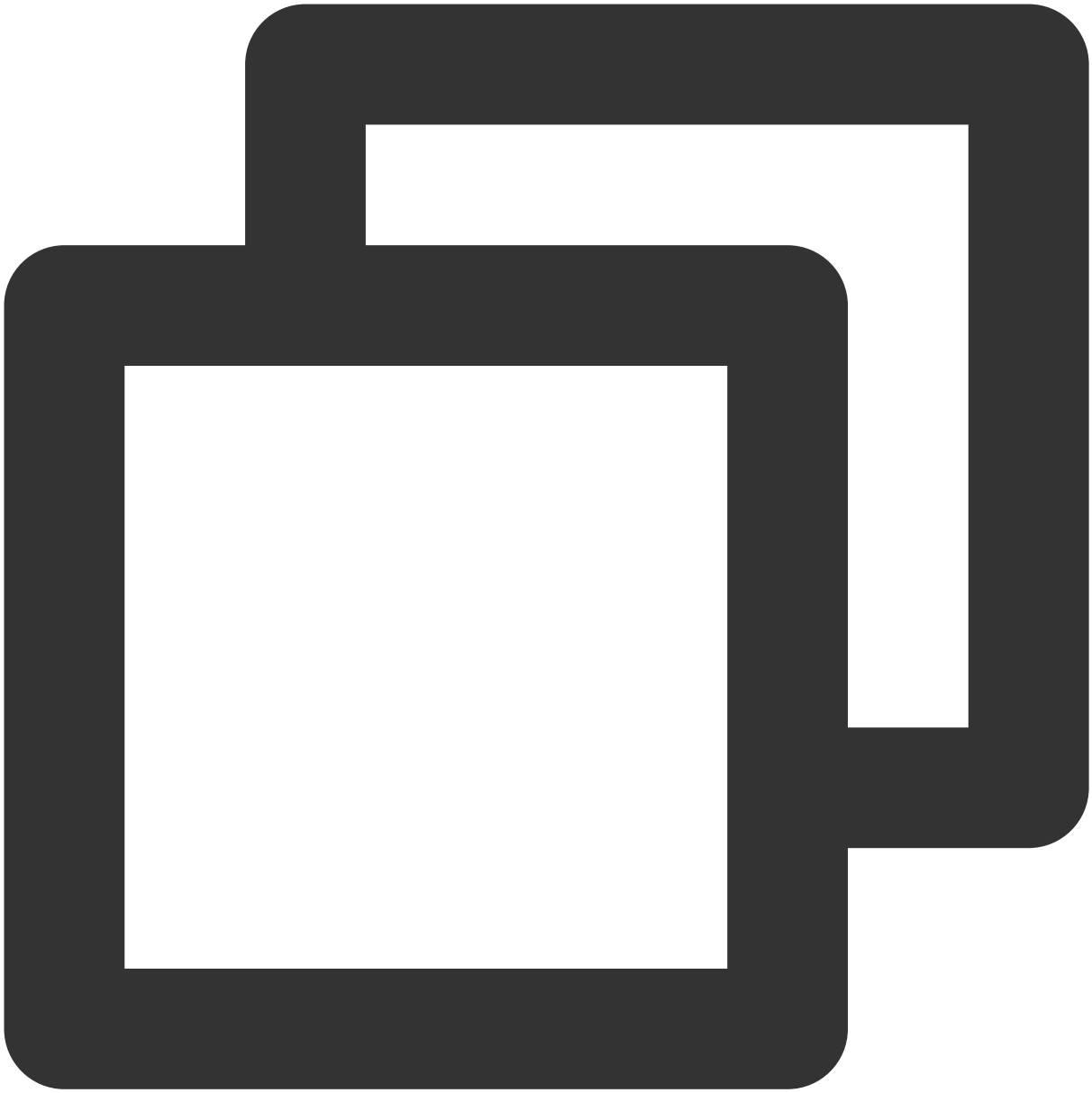
SecretId	User SecretId	String	No
SecretKey	User's `SecretKey`, which we recommend to be used only for frontend debugging and should not be disclosed	String	No
FileParallelLimit	Number of concurrent file uploads in the same instance. Default value: `3`	Number	No
ChunkParallelLimit	Number of concurrent part uploads for the same uploaded file. Default value: `3`	Number	No
ChunkRetryTimes	Number of retries upon multipart upload failure. Default value: `2` (a request will be made 3 times in total, including the initial one)	Number	No
ChunkSize	Part size in the multipart upload in bytes. Default value: `1048576` (1 MB)	Number	No
SliceSize	When files are uploaded in batches using uploadFiles, if the file size is greater than the value of this parameter, multipart upload (sliceUploadFile) is used; otherwise, simple upload (putObject) is used. Default value: `1048576` (1 MB)	Number	No
CopyChunkParallelLimit	Number of concurrent part uploads for the same multipart copy operation. Default value: `20`	Number	No
CopyChunkSize	Number of bytes in each part during a multipart copy operation with `sliceCopyFile`. Default value: `10485760` (10 MB)	Number	No
CopySliceSize	When a file is copied using sliceCopyFile, if the file size is greater than the value of this parameter, multipart copy (sliceCopyFile) is used; otherwise, simple copy (putObjectCopy) is used. Default value: `10485760` (10 MB)	Number	No
ProgressInterval	Callback frequency of the upload progress callback method `onProgress` in milliseconds. Default value: `1000`	Number	No
Protocol	Protocol used when the request is made. Valid values: `https:`, `http:`. By default, `http:` is used when the current page is determined to be in `http:` format; otherwise, `https:` is used	String	No

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ServiceDomain	The request domain name when `getService` is called, such as `service.cos.myqcloud.com`	String	No
Domain	The custom request domain name used to call a bucket or object API. You can use a template, such as `"{Bucket}.cos.{Region}.myqcloud.com"` which will use the bucket and region passed in the replacement parameters when an API is called.	String	No
UploadQueueSize	The maximum size of the upload queue. Excess tasks will be cleared if their status is not waiting, checking, or uploading. Default value: `10000`	Number	No
ForcePathStyle	Forces the use of a suffix when sending requests. The suffixed bucket will be placed in the pathname after the domain name, and the bucket will be added to the signature pathname for calculation. Default value: `false`	Boolean	No
UploadCheckContentMd5	Forces the verification of Content-MD5 for file uploads, which calculates the MD5 checksum of the file request body and places it in the Content-MD5 field of the header. Default value: `false`	Boolean	No
getAuthorization	Callback method for getting the signature. If there is no `SecretId` or `SecretKey`, this parameter is required. **Note: This callback method is passed in during instance initialization, and is only executed to obtain the signature when the instance calls APIs.**	Function	No
UseAccelerate	Whether to enable a global acceleration endpoint. Default value: `false`. If you set the value to `true`, you need to enable global acceleration for the bucket. For more information, see Enabling Global Acceleration.	Boolean	No
SimpleUploadMethod	The name of the method for simply uploading small files during advanced upload and batch upload. Valid values: `postObject`, `putObject`. Default value: `postObject`. This parameter is supported starting from v1.3.0.	String	No

getAuthorization Callback function description (Format 1)

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```
getAuthorization: function(options, callback) { ... }
```

getAuthorization callback parameter descriptions:

Parameter	Description	Type
options	Required for getting the signature	Object
- Bucket	Bucket name in the format of `BucketName-APPID`. The bucket name entered here must be in this format	String

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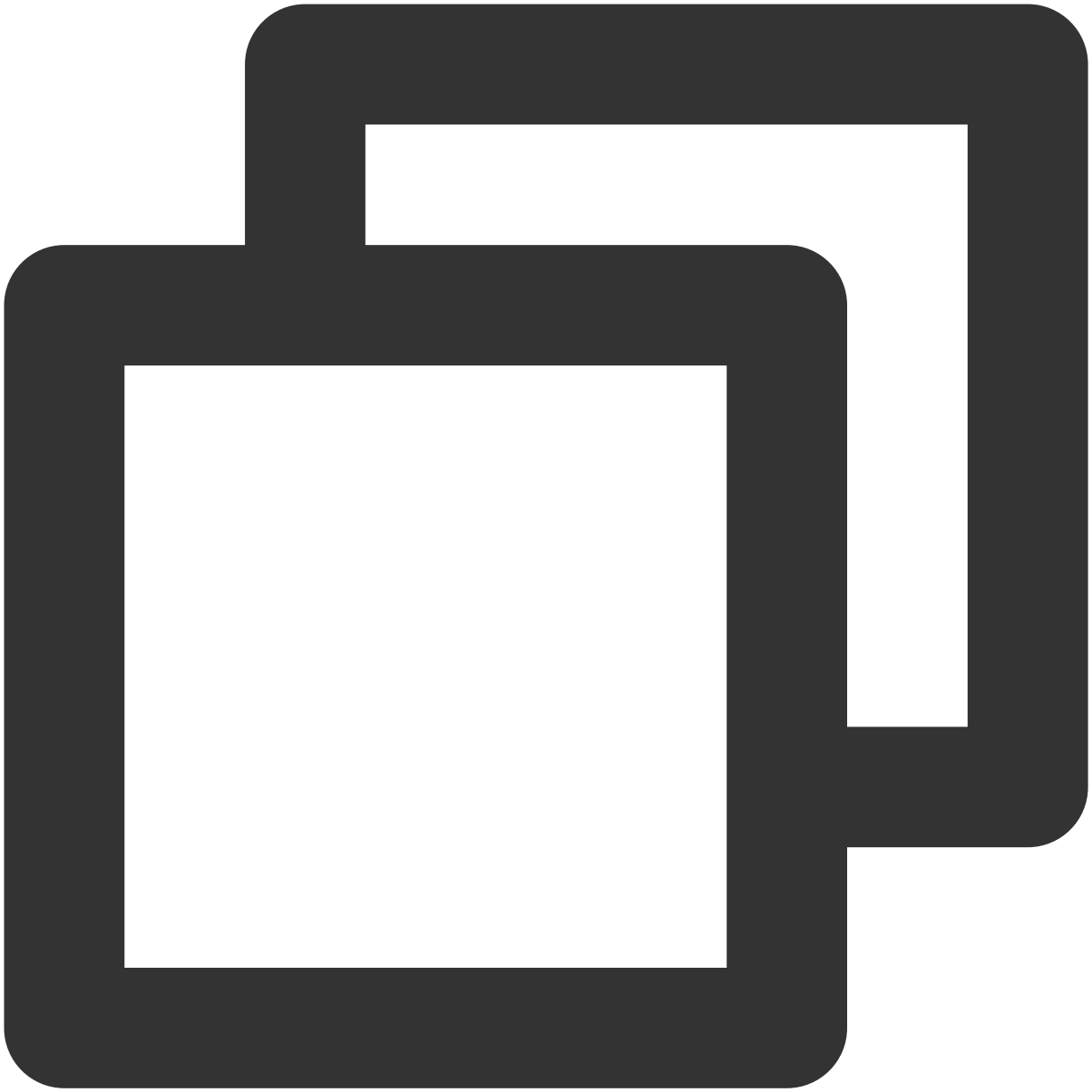
- Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String
callback	Callback method after the temporary key is obtained	Function

After the temporary key is obtained, the callback returns an object. The attributes of the returned object are as listed below:

Attribute	Description	Type	Required
TmpSecretId	`tmpSecretId` of the obtained temporary key	String	Yes
TmpSecretKey	`tmpSecretKey` of the obtained temporary key	String	Yes
SecurityToken	`sessionToken` of the obtained temporary key, which corresponds to the `x-cos-security-token` field in the header. Use `XCosSecurityToken` instead of `SecurityToken` for SDKs on versions earlier than v1.2.0.	String	Yes
StartTime	The timestamp in seconds of when you obtained the key, such as `1580000000`. Passing in this parameter as the signature start time can avoid signature expiration issues due to time deviation on the frontend.	String	No
ExpiredTime	`expiredTime` of the obtained temporary key measured in seconds, i.e., the timeout timestamp, such as 1580000900	String	Yes

getAuthorization Callback function description (Format 2)

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```
getAuthorization: function(options, callback) { ... }
```

getAuthorization function callback parameter descriptions:

Parameter	Description	Type
options	Parameter object for getting the signature	Object
- Method	Method of the current request	Object
- Pathname	Request path used for signature calculation	String

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- Key	An object key (object name), the unique identifier of an object in a bucket. For more information, see Object Overview. **Note: This parameter is empty if the API that uses the instance is not an object-operation API.**	String
- Query	Query parameter in the current request. Format: {key: 'val'}	Object
- Headers	Headers in the current request. Format: {key: 'val'}	Object
callback	Callback after the temporary key is obtained	Function

Once the getAuthorization callback function is finished, it returns one of the following:

An Authorization string.

An object whose attributes are listed as follows:

Attribute	Description	Type	Required
Authorization	Calculated signature string	String	Yes
SecurityToken	`sessionToken` of the obtained temporary key, which corresponds to the `x-cos-security-token` field in the header. Use `XCosSecurityToken` instead of `SecurityToken` for SDKs on versions earlier than v1.2.0.	String	No

Getting an authentication credential

There are three ways to get the authentication credentials for your instance by passing in different parameters during instantiation:

1. During instantiation, pass in your `SecretId` and `SecretKey`. Each time a signature is required, it will be internally calculated by the instance.
2. During instantiation, pass in the `getAuthorization` callback function. Each time a signature is required, it will be calculated and returned to the instance through this callback.
3. During instantiation, pass in the `getSTS` callback. Each time a temporary key is required, it will be returned to the instance for signature calculation within the instance during each request.

Enabling DataInsight

We have introduced the Tencent Beacon into the SDK to track down and optimize the SDK quality for a better user experience.

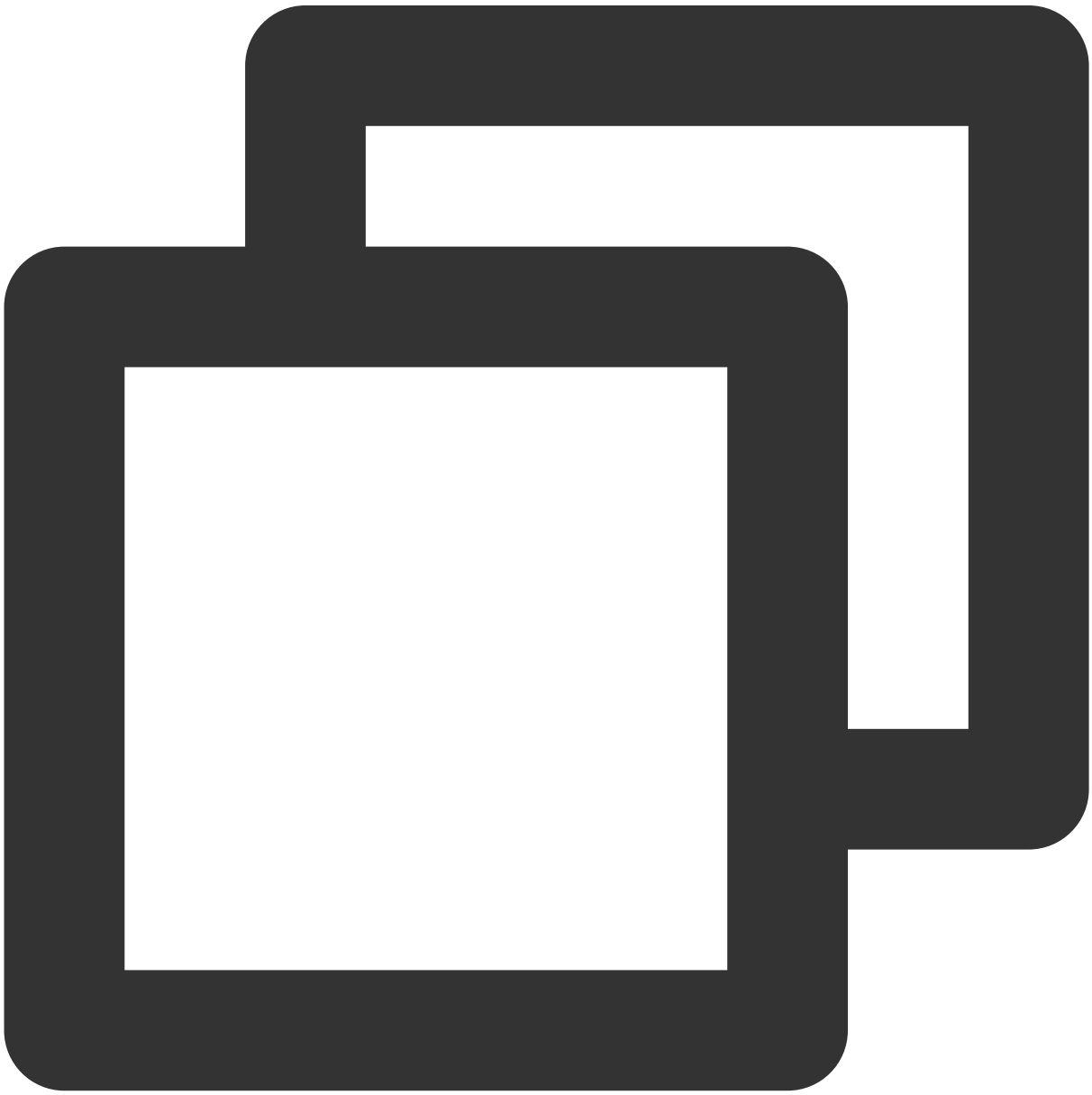
Note:

DataInsight only monitors the COS request performance and doesn't report any business data.

To enable this feature, make sure that the SDK version is 1.4.0 or later and specify `EnableTracker` as `true` during initialization.

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Then, add the following to the valid request domain name allowlist of the mini program:
`https://h.trace.qq.com;https://oth.str.beacon.qq.com;https://otheve.beacon.qq.com;` .



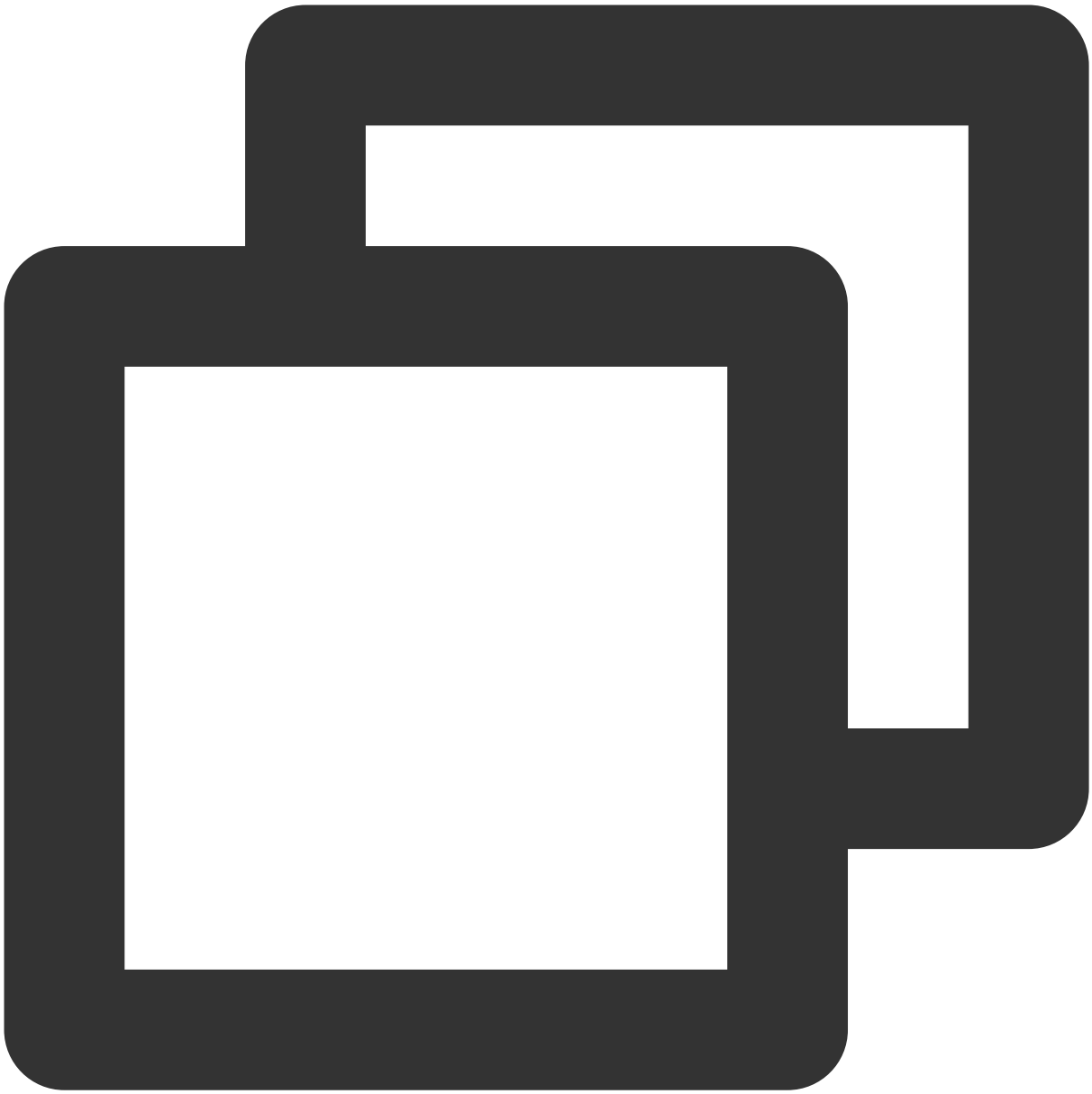
```
new COS({
  EnableTracker: true,
})
```

How to use

Callback method

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The callback method is used by default in the documentation. Below is the sample code:

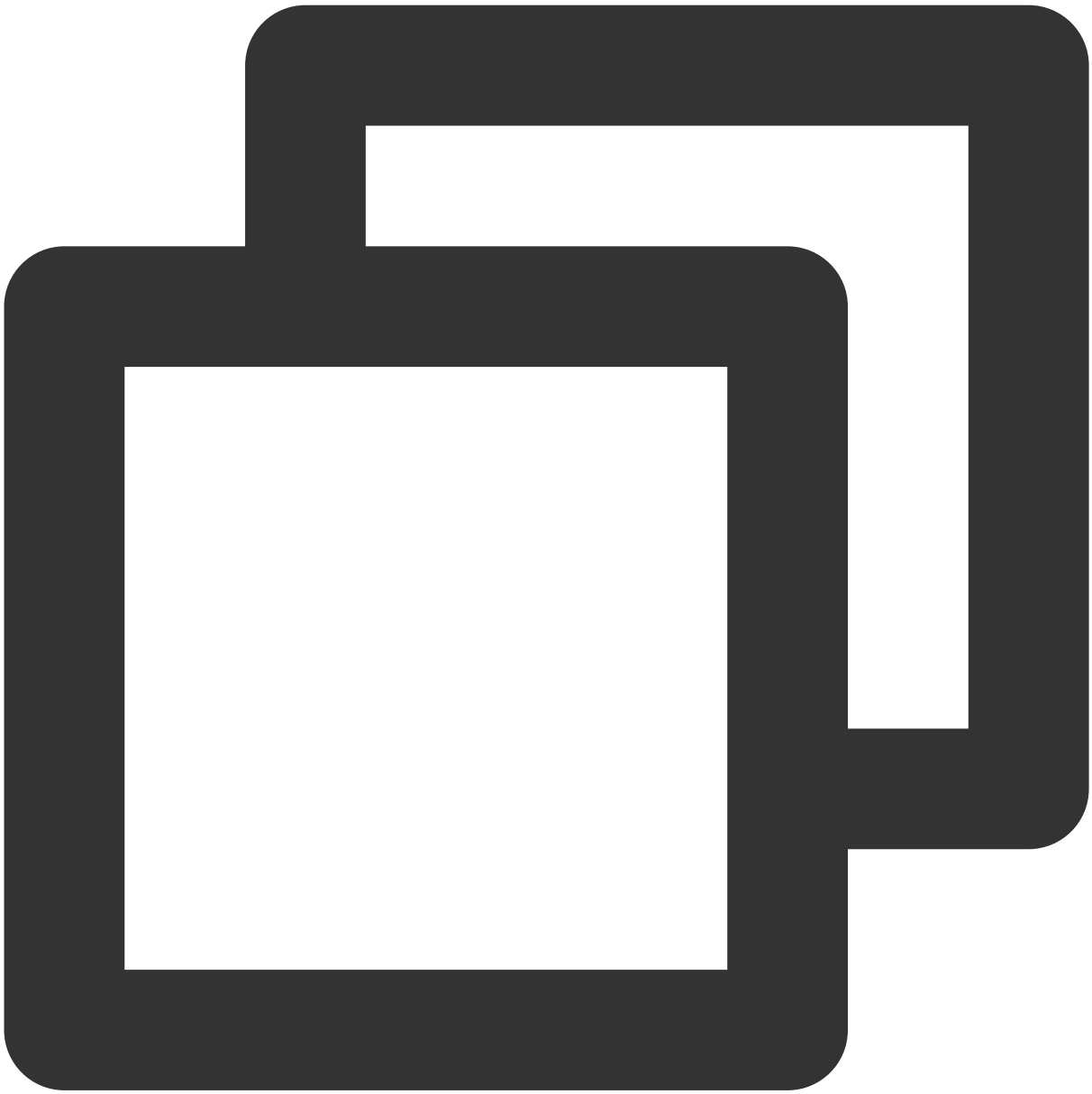


```
// The initialization process and upload parameters are omitted here.
var cos = new COS({ ... });
cos.uploadFile({ ... }, function(err, data) {
  if (err) {
    console.log('Upload failed', err);
  } else {
    console.log('Uploaded successfully', data);
  }
});
```

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Promise

The SDK also supports calling through the promise method. For example, the code of the callback method above is equivalent to the following code:

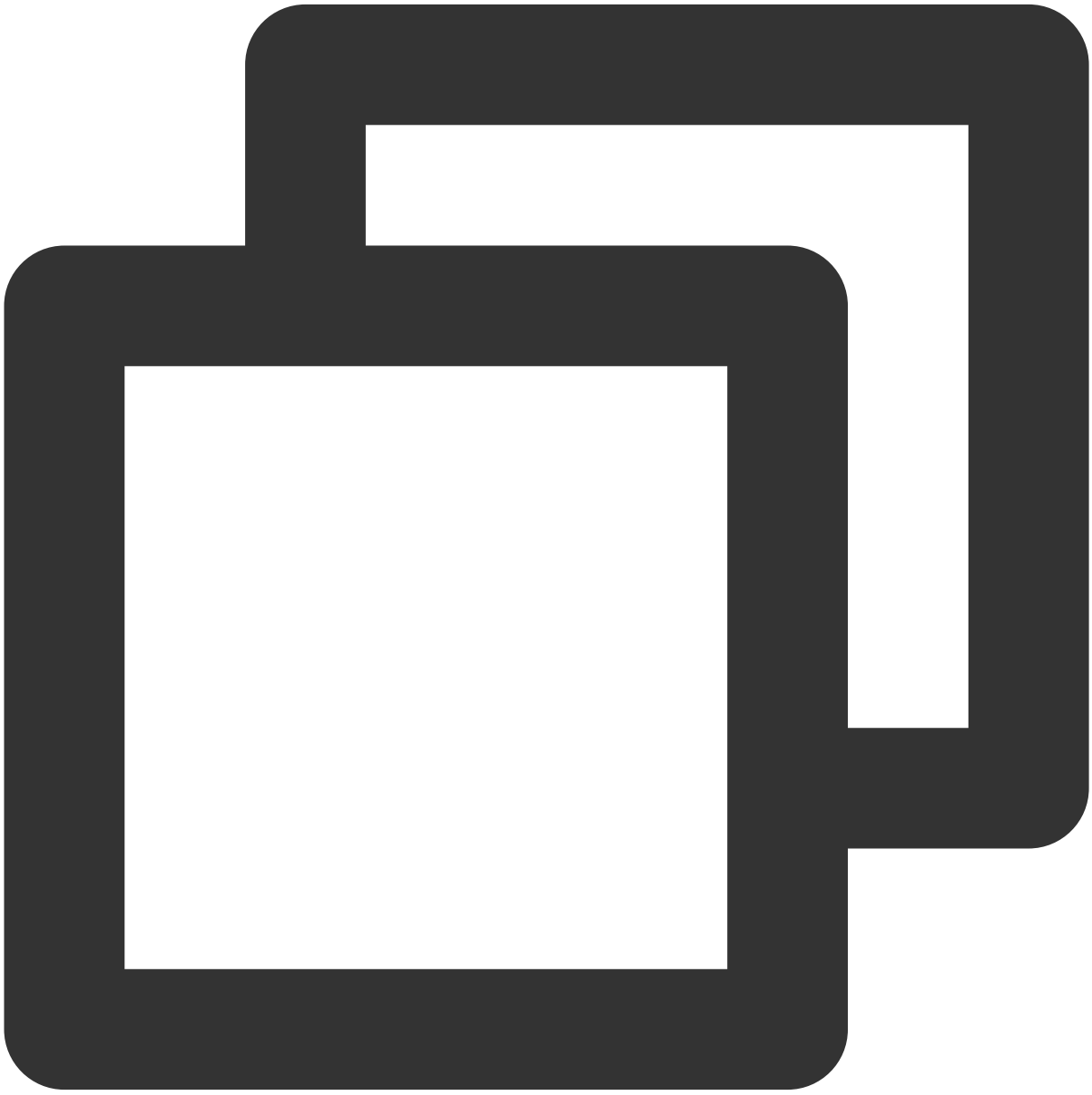


```
// The initialization process and upload parameters are omitted here.
var cos = new COS({ ... });
cos.uploadFile({ ... }).then(data => {
  console.log('Uploaded successfully', data);
}).catch(err => {
  console.log('Upload failed', err);
});
```

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Sync method

The sync method is based on JavaScript's async and await. The code of the callback method above is equivalent to the following code:



```
async function upload() {
  // The initialization process and upload parameters are omitted here.
  var cos = new COS({ ... });
  try {
    var data = await cos.uploadFile({ ... });
```

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```
    return { err: null, data: data }
  } catch (err) {
    return { err: err, data: null };
  }
}
// The returned value of the request can be obtained synchronously. Here is only an
var uploadResult = await upload();
if (uploadResult.err) {
  console.log('Upload failed', uploadResult.err);
} else {
  console.log('Uploaded successfully', uploadResult.data);
}
```

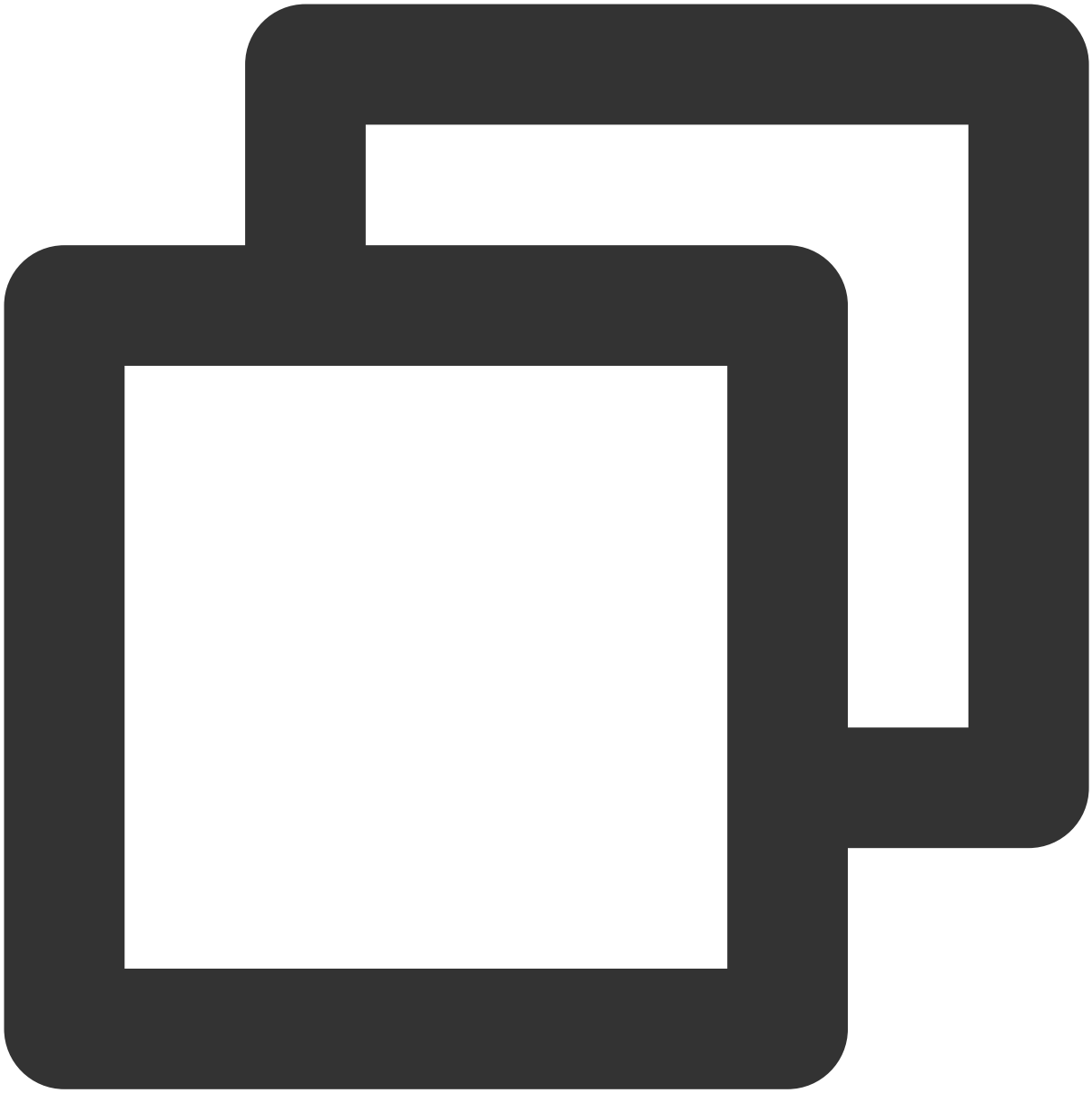
Note:

`cos.getObjectUrl` currently only supports the callback method.

Tips

In most cases, you only need to create a COS SDK instance, and use it directly where SDK methods need to be called.

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```
var cos = new COS({
  ....
});

/* Self-encapsulated upload method */
function myUpload() {
  // COS SDK instances do not need to be created in each method
  // var cos = new COS({
  //   ...
  // });
  cos.putObject({
```

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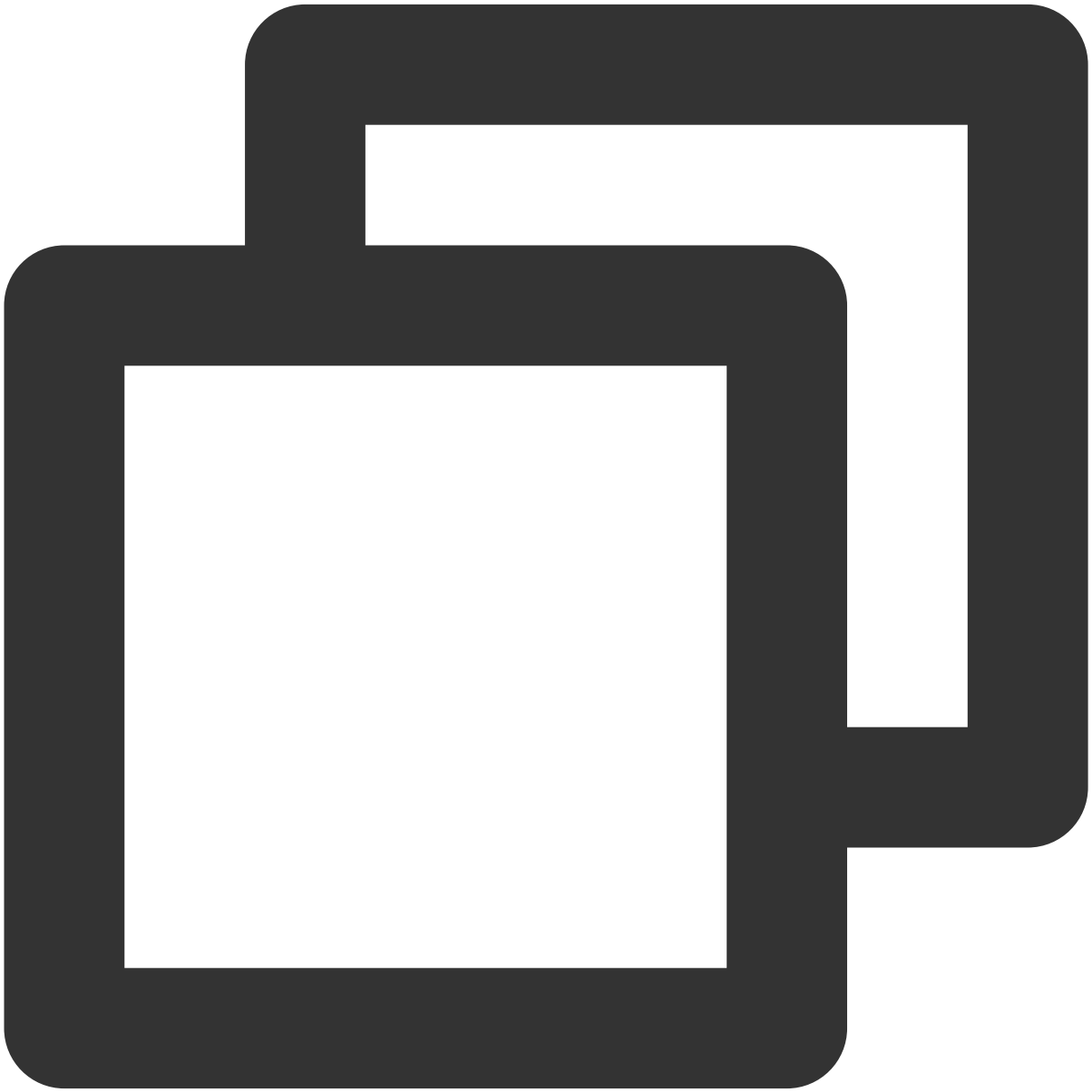
```
    ....
  });
}

/* Self-encapsulated deletion method */
function myDelete() {
  // COS SDK instances do not need to be created in each method
  // var cos = new COS({
  //   ...
  // });
  cos.deleteObject({
    ....
  });
}
```

Below are some examples of common APIs. For more detailed initialization methods, see the examples in the demo.

Creating a bucket

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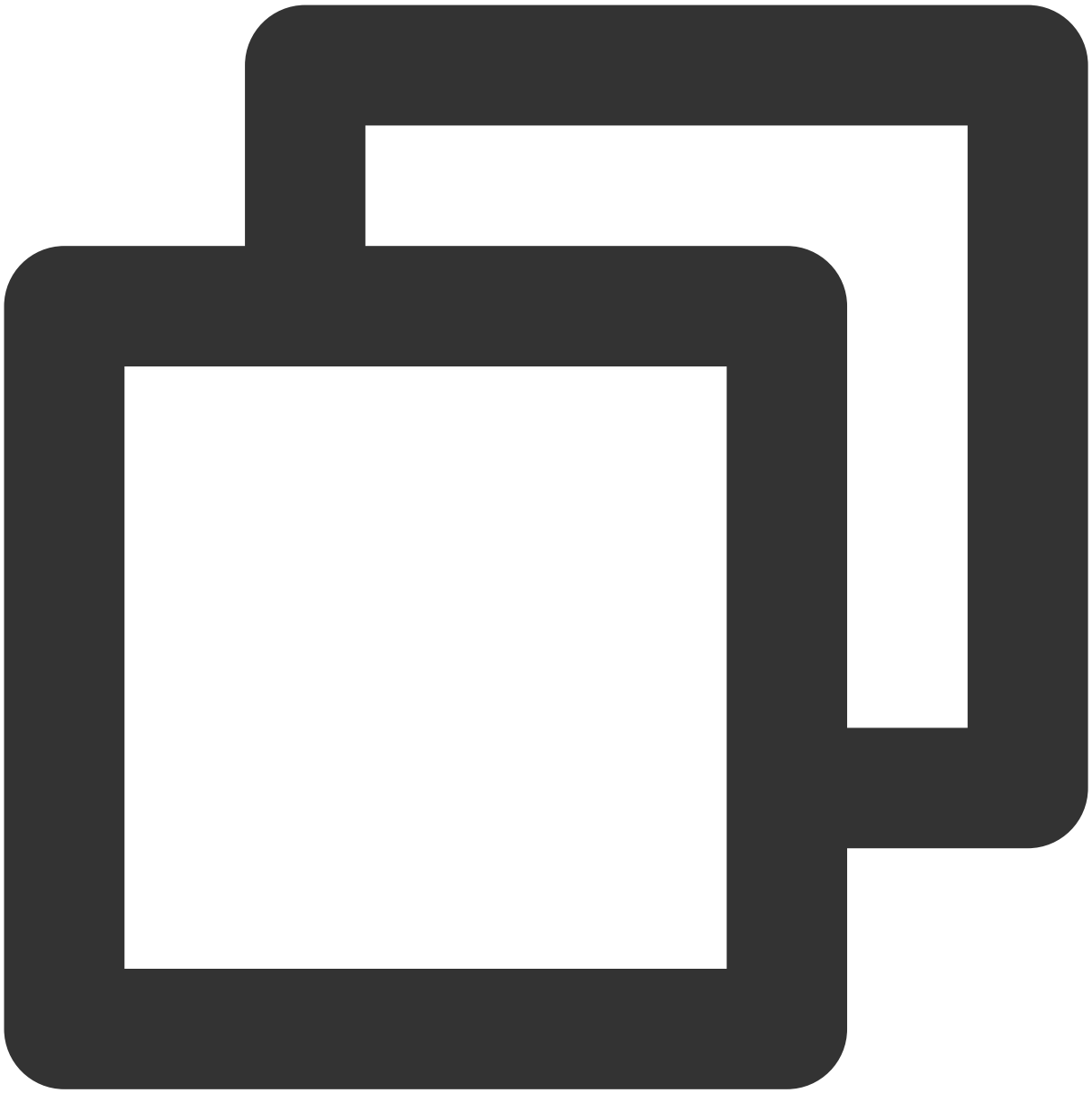
```
cos.putBucket({
    Bucket: 'examplebucket-1250000000',
    Region: 'ap-beijing',
}, function (err, data) {
    console.log(err || data);
});
```

Note:

If you need to create a bucket via the Weixin Mini Program, but the bucket name is unknown, you cannot configure the bucket name as an allowed domain name. Instead, you can use suffixed calls. For more information, see FAQs.

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Querying the bucket list



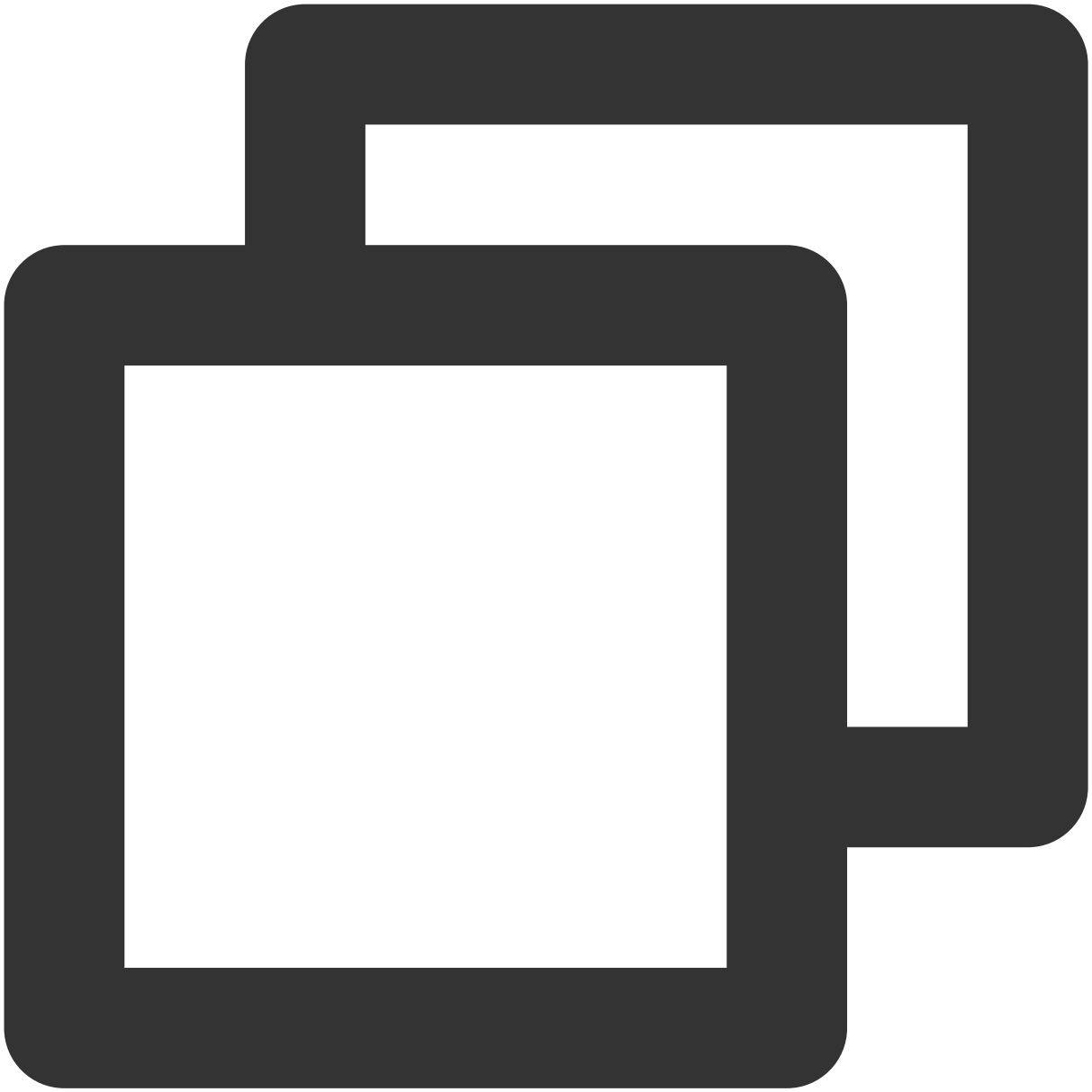
```
cos.getService(function (err, data) {
    console.log(data && data.Buckets);
});
```

Uploading an object

We strongly recommend you use the advanced upload API `uploadFile`, which automatically uses simple upload for small files and multipart upload for large files for a better performance. For more information, see Uploading Object.

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If you use the temporary key method, you need to grant the permissions of both simple upload and multipart upload as instructed in Working with COS API Authorization Policies.
For SDK FAQs, see FAQs.



```
/* Initialize COS */
var cos = new COS({
  // getAuthorization: funciton() {}, // See above for initialization.
  SimpleUploadMethod: 'putObject', // We strongly recommend you use `putObject` whe
});

function handleFileInUploading(fileName, filePath) {
```

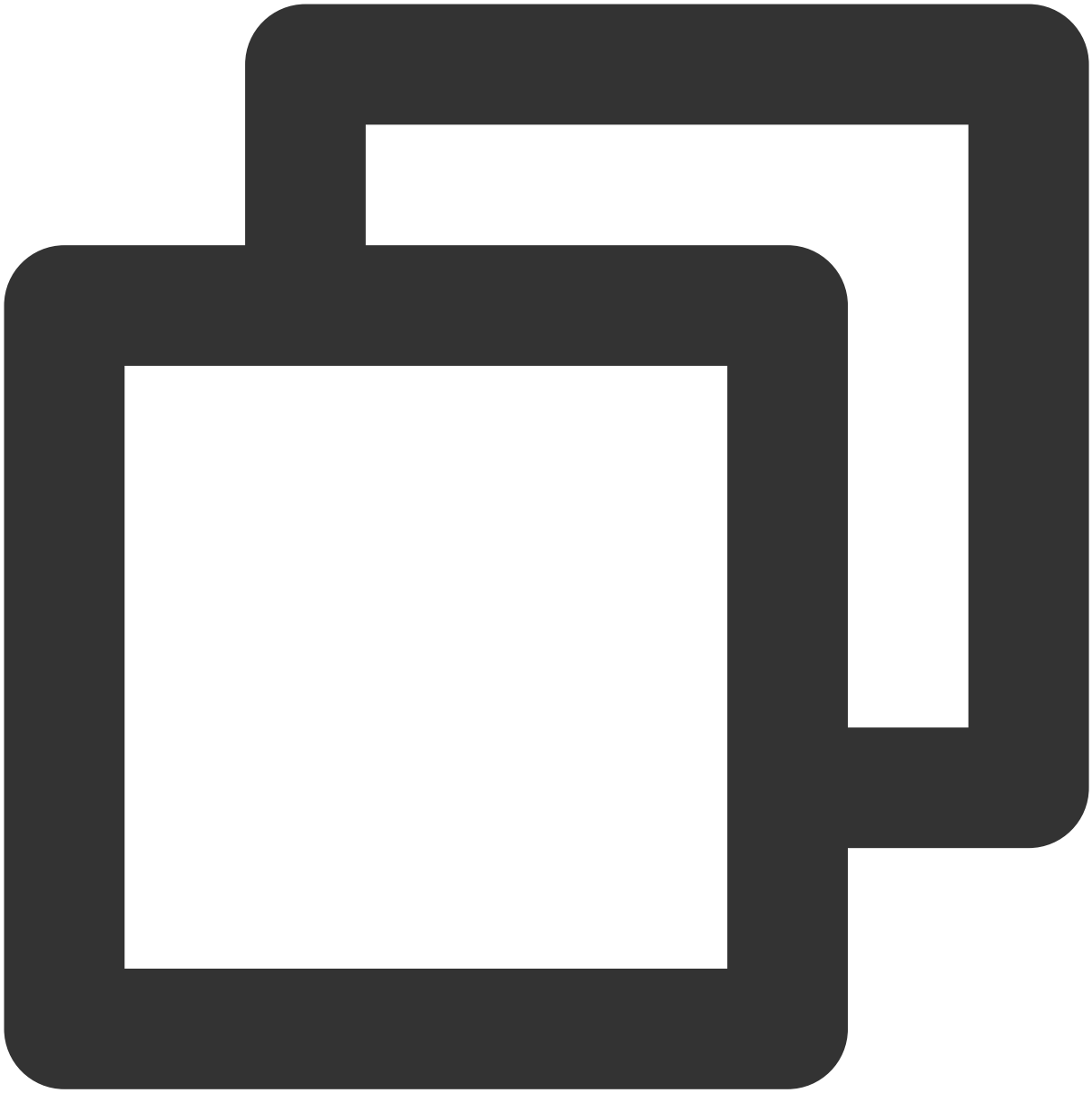
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```
  cos.uploadFile({
      Bucket: 'examplebucket-1250000000', /* Your bucket name. Required. */
      Region: 'COS_REGION',     /* Bucket region. Required */
      Key: fileName,              /* Object key stored in the bucket (required), su
      FilePath: filePath, /* Path of the file to be uploaded (required) */
      SliceSize: 1024 * 1024 * 5,     /* Threshold (5 MB in this example) to trigge
      onProgress: function(progressData) {
          console.log(JSON.stringify(progressData));
      }
  }, function(err, data) {
      if (err) {
        console.log('Upload failed', err);
      } else {
        console.log('Uploaded successfully');
      }
  });
}

/* Select a file to get the temporary path (with an image as an example here). For
wx.chooseImage({
    count: 1, // Default value: `9`
    sizeType: ['original'], // You can specify whether to use the original or compr
    sourceType: ['album', 'camera'], // You can specify whether the source is an al
    success: function (res) {
        var filePath = res.tempFiles[0].path;
        var fileName = filePath.substr(filePath.lastIndexOf('/') + 1);
        handleFileInUploading(fileName, filePath);
    }
});
```

Querying objects

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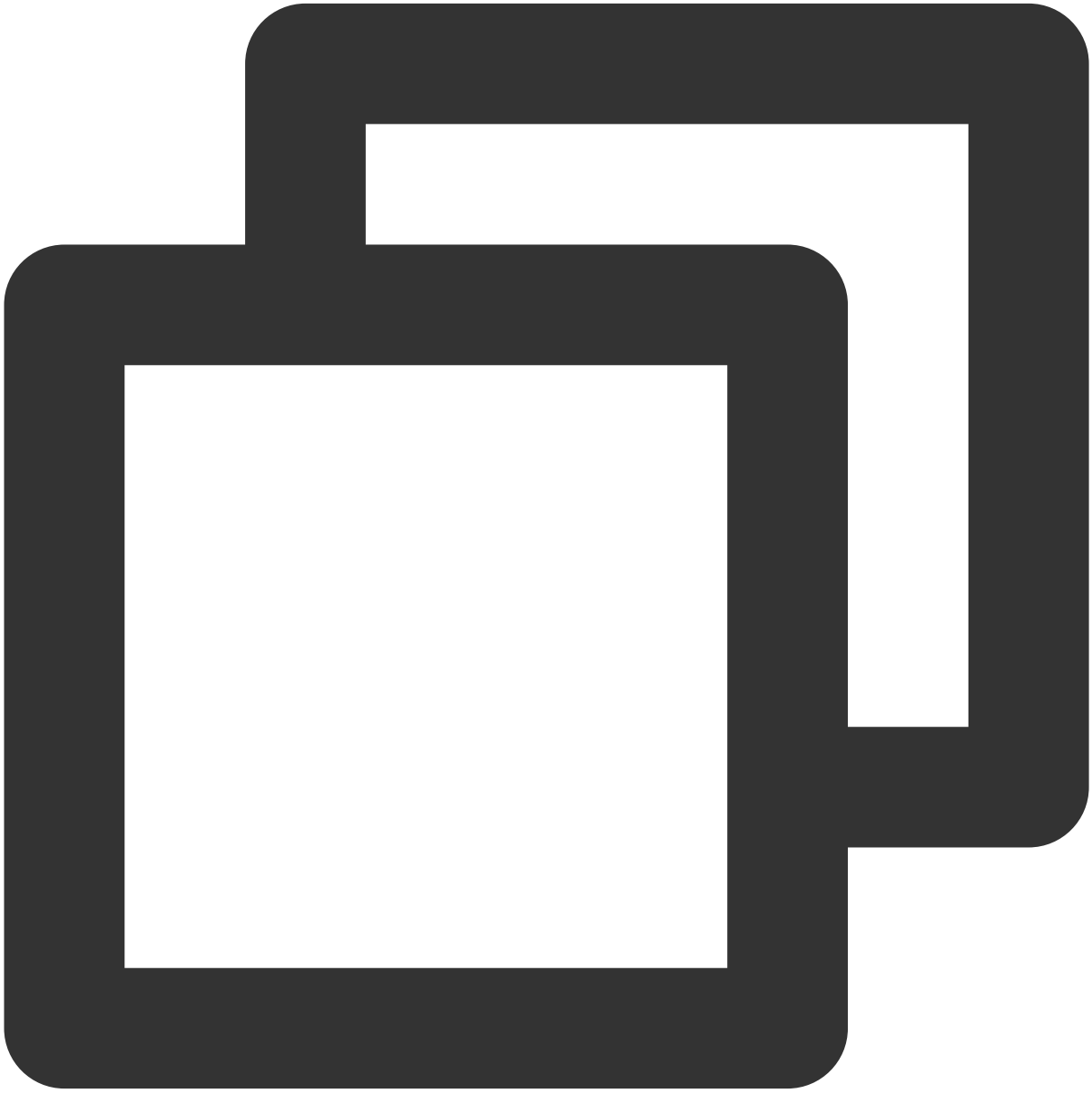
```
cos.getBucket({
    Bucket: 'examplebucket-1250000000',
    Region: 'ap-beijing',
    Prefix: 'exampledir/', // Pass in the file prefixes to be listed here
}, function (err, data) {
    console.log(err || data.Contents);
});
```

Downloading an object

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Note:

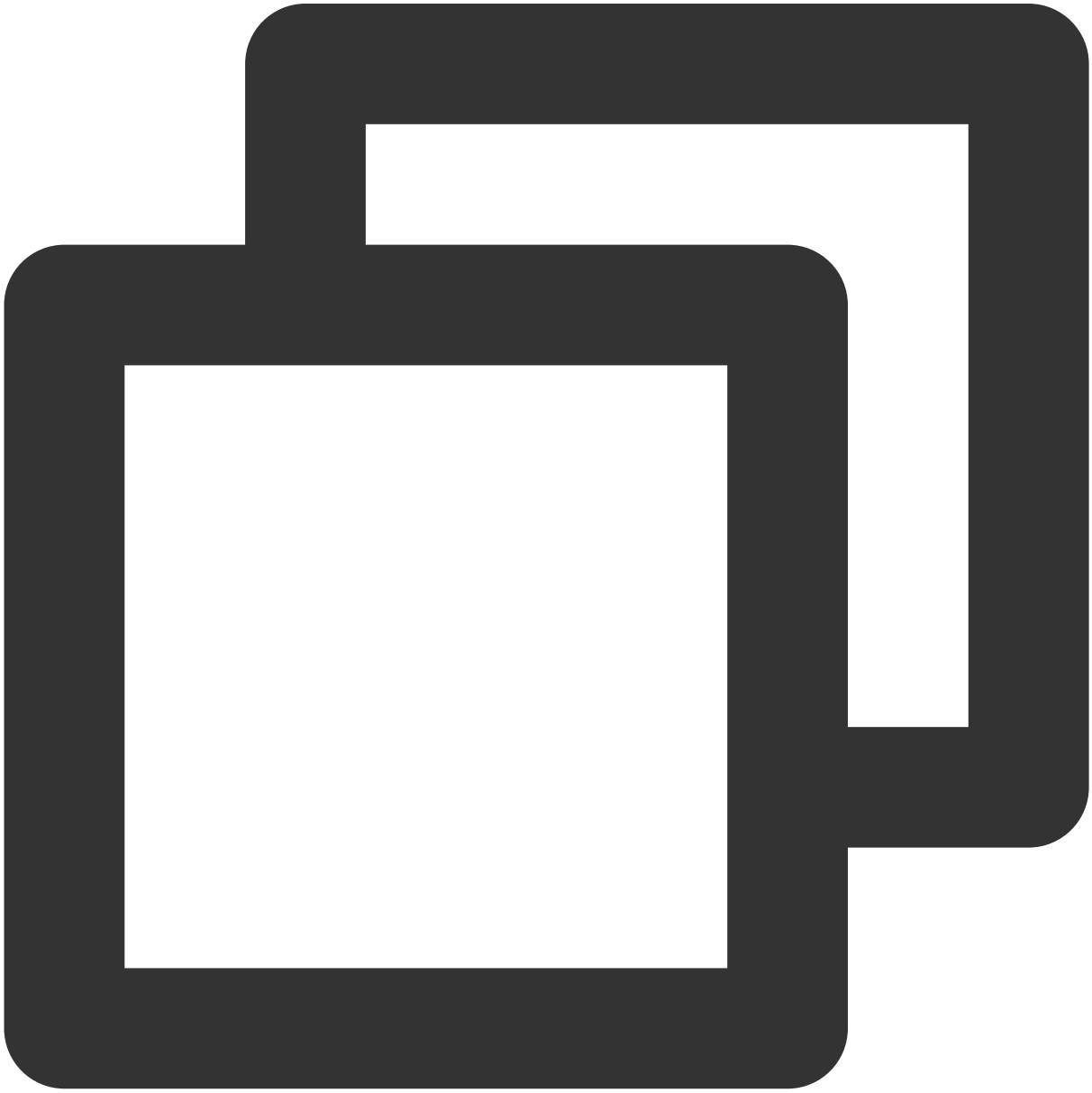
This API is used to read object content. To download a file using your browser, you should first get a download URL through the `cos.getObjectUrl` method. For more information, see Pre-signed URLs.



```
cos.getObject({
    Bucket: 'examplebucket-1250000000',
    Region: 'ap-beijing',
    Key: 'exampleobject.txt',
}, function (err, data) {
    console.log(err || data.Body);
});
```

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Deleting an object



```
cos.deleteObject({
    Bucket: 'examplebucket-1250000000',
    Region: 'ap-beijing',
    Key: 'picture.jpg',
}, function (err, data) {
    console.log(err || data);
});
```

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Image Processing
Basic Image Processing

Last updated：2024-03-01 15:15:09

Overview

This document provides an overview of APIs and SDK code samples for basic image processing.

Service	Feature	Description
Basic image processing	Scaling	Proportional scaling, scaling image to target width and height
	Cropping	Regular cropping, cropping and scaling, cropping to circle, smart face cropping
	Rotation	Adaptive rotation, regular rotation
	Format conversion	Format conversion, GIF format optimization, progressive display
	Quality change	Quality change for JPG and WebP images
	Gaussian blurring	Image blurring
	Sharpening	Image sharpening
	Watermarking	Image watermark, text watermark
	Image information acquisition	Basic information, EXIF information, average hue
	Metadata removal	Including EXIF information
	Quick thumbnail template	Quick image format conversion, scaling, and cropping for thumbnail generation

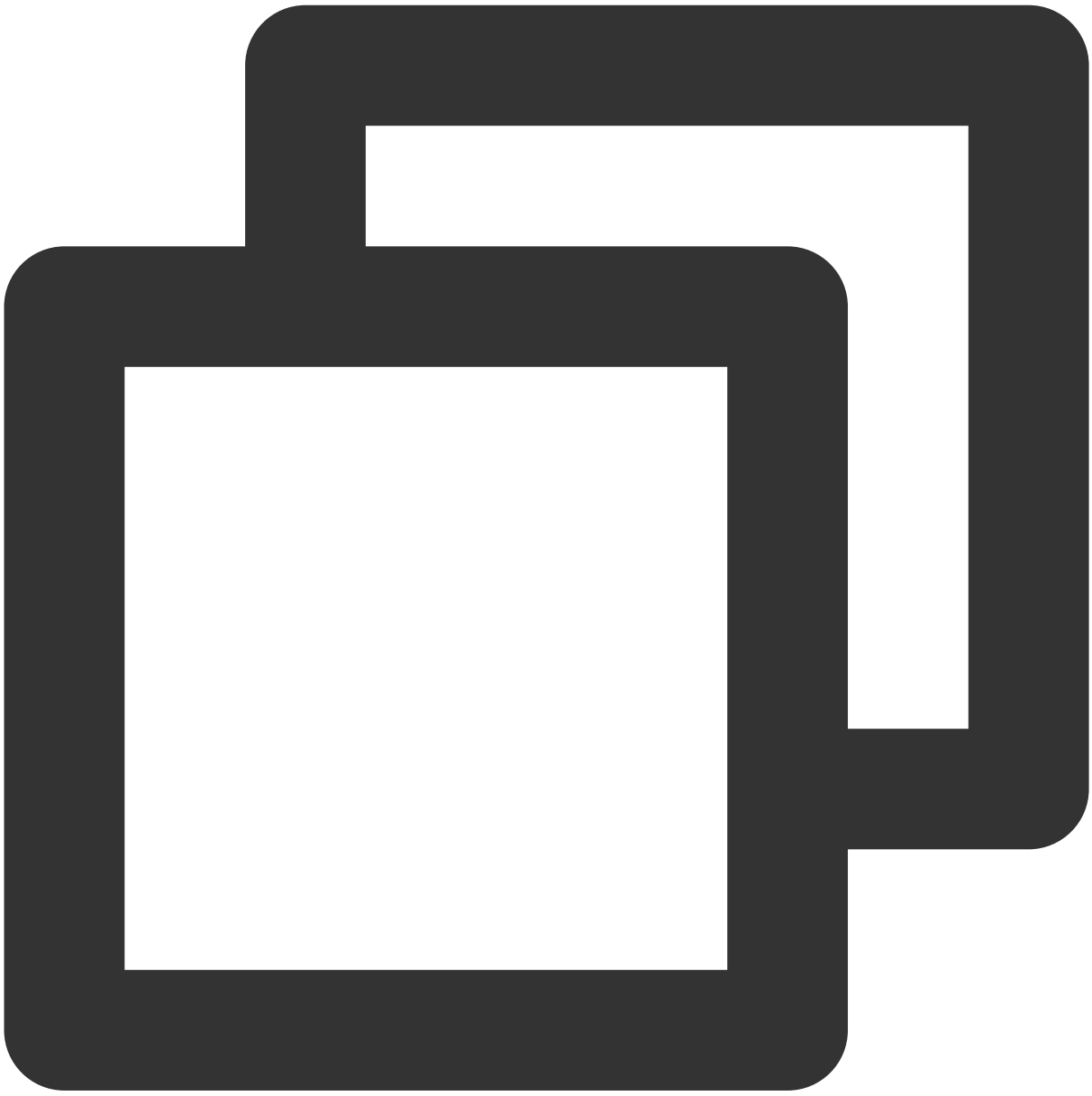
Processing Image During Upload

The following example shows how to automatically process an image when you upload it to COS.

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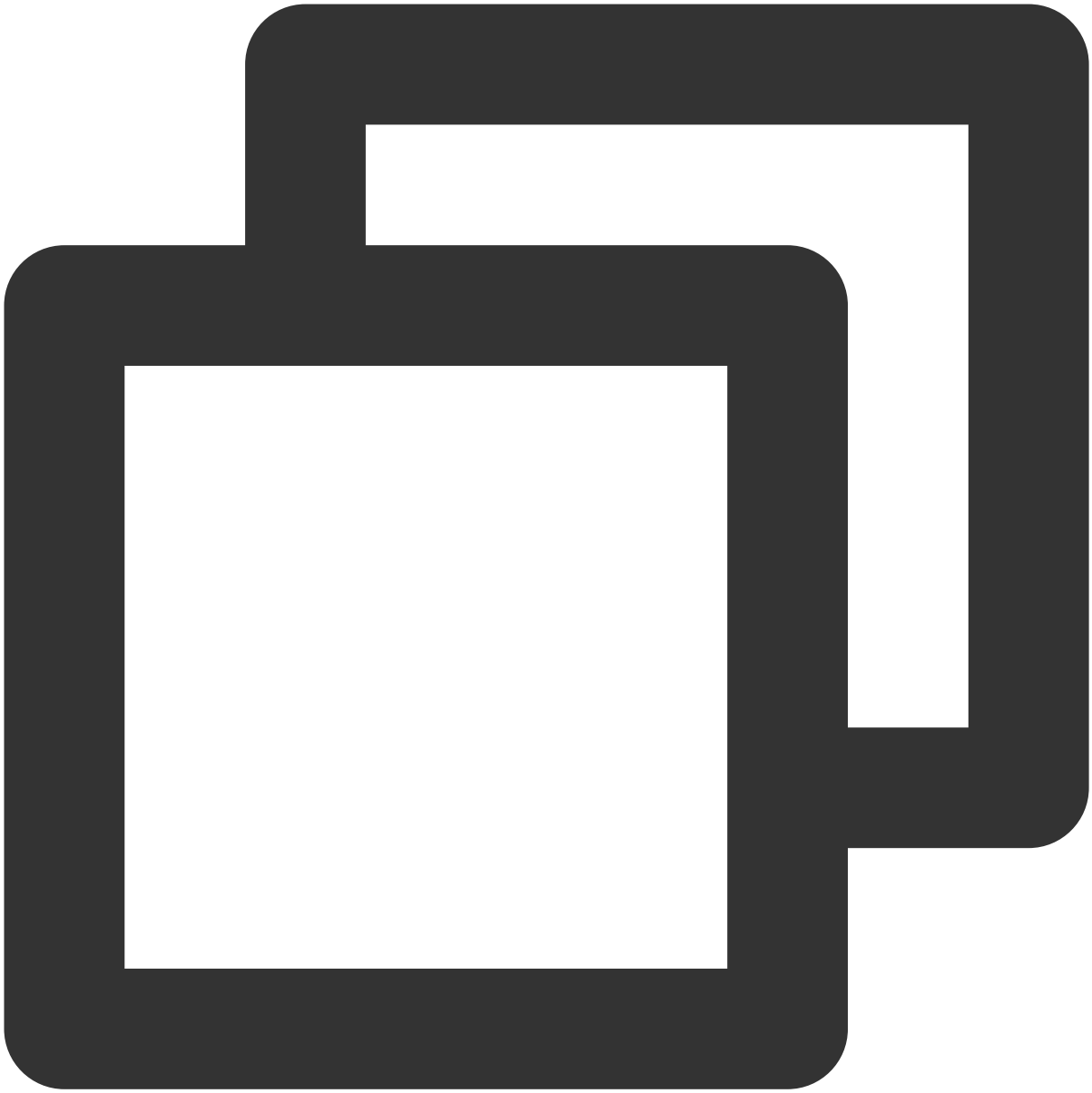
When the image is uploaded successfully, COS will save both the original and the processed images. You can later obtain the processing results by using a general download request.

Sample code



```
<view>
  <button type="primary" bindtap="button">Process an image during upload</button>
</view>
```

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```
Page({
  button: function () {
    wx.chooseMessageFile({
      count: 10,
      type: 'all',
      success: function (res) {
        var file = res.tempFiles[0];
        wxfs.readFile({
          filePath: file.path,
          success: function (res) {
            cos.putObject(
```

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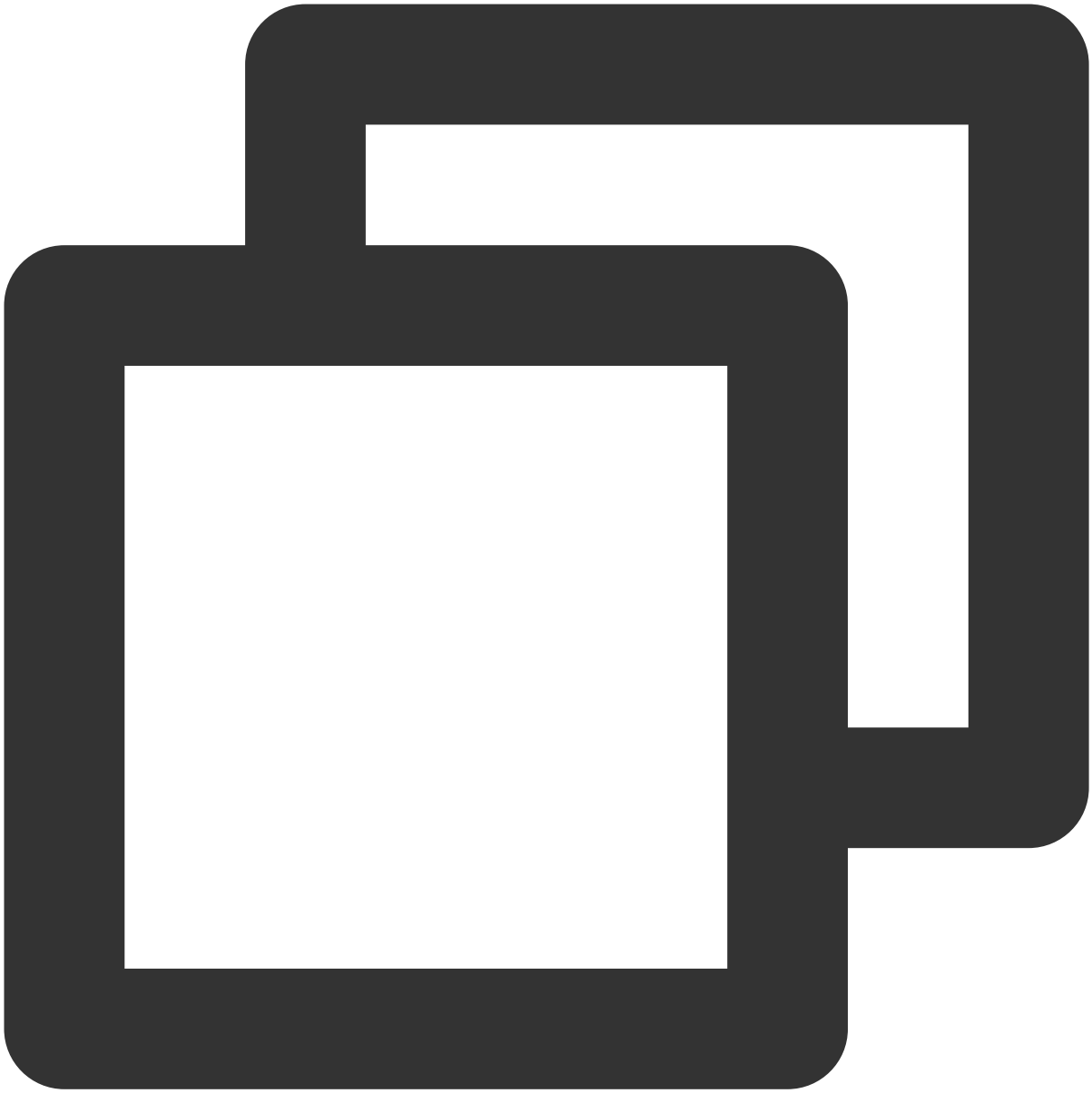
```
              {
                Bucket: 'examplebucket-1250000000',
                Region: 'COS_REGION',
                Key: file.name,
                Body: res.data,
                Headers: {
                  // Use the `imageMogr2` API to scale the image (by specifying the
                  'Pic-Operations':
                    '{"is_pic_info": 1, "rules": [{"fileid": "desample_photo.jpg",
                },
              },
              (err, data) => {
                console.log(err || data);
              },
            );
          },
          fail: (err) => console.error(err),
        });
      },
      fail: (err) => console.error(err),
    });
  },
});
```

Processing In-Cloud Image

The following example shows how to process an image stored in COS and save the processing result to COS.

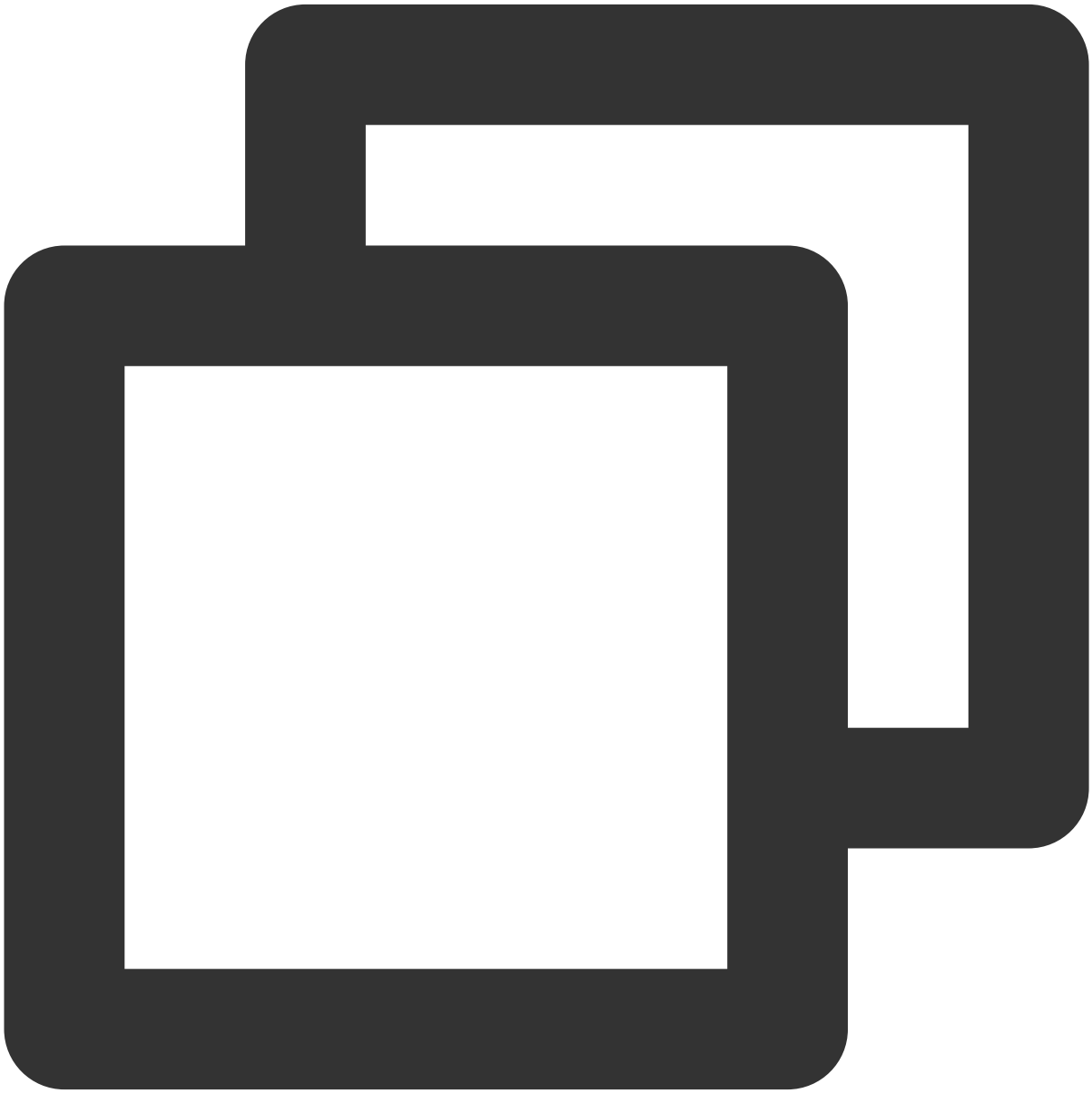
Sample code

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```
<view>
  <button type="primary" bindtap="button">Process an in-cloud image</button>
</view>
```

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```
Page({
  button: function () {
    cos.request(
      {
        Bucket: 'examplebucket-1250000000',
        Region: 'COS_REGION',
        Key: 'exampleImage',
        Method: 'POST',
        Action: 'image_process',
        Headers: {
          // Use the `imageMogr2` API to scale the image (by specifying the width o
```

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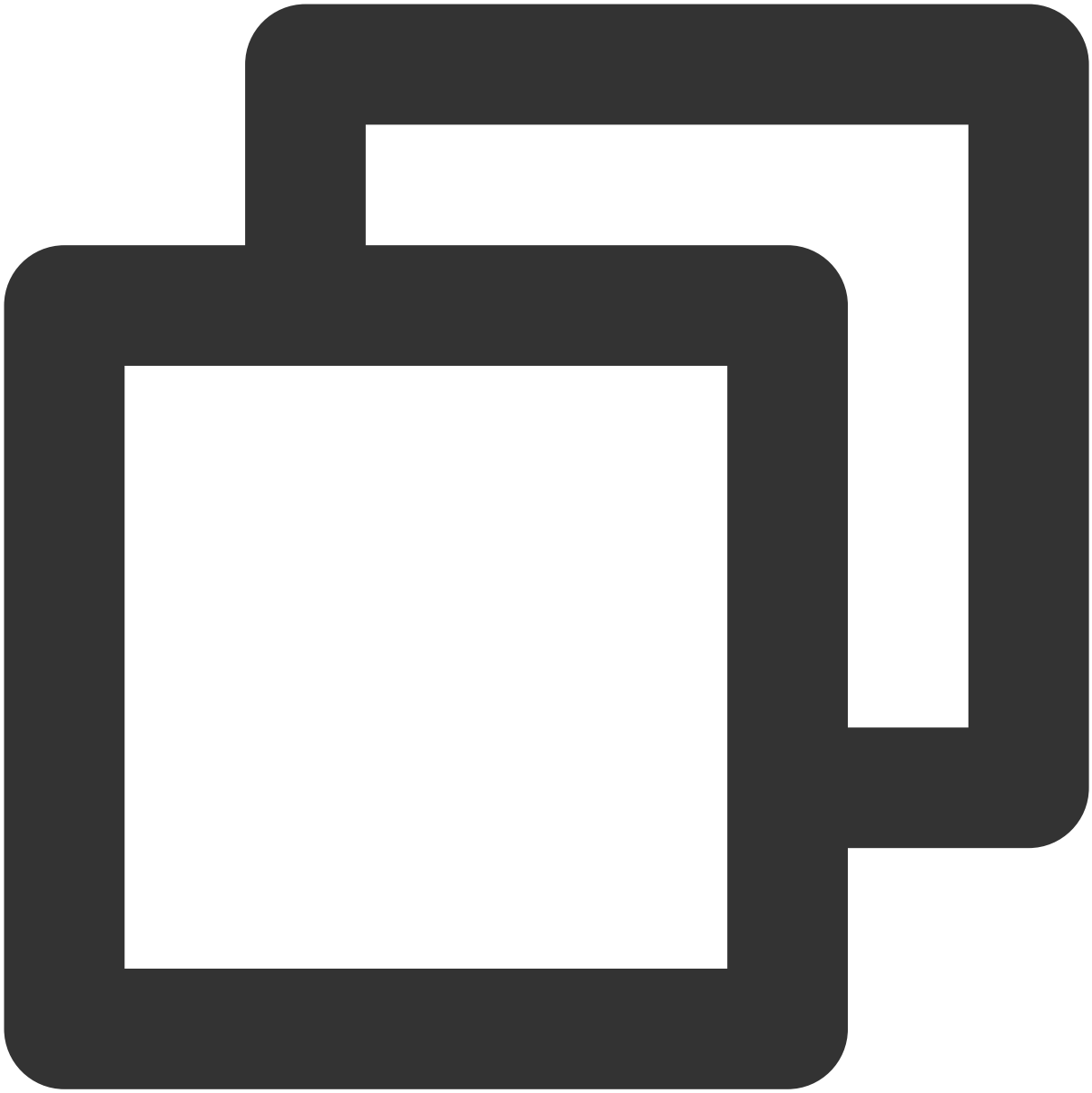
```
            'Pic-Operations':
              '{"is_pic_info": 1, "rules": [{"fileid": "desample_photo.jpg", "rule":
          },
        },
        (err, data) => {
          console.log(err || data);
        },
      );
    },
  });
```

Processing Image During Download

The following example shows how to process an image during download.

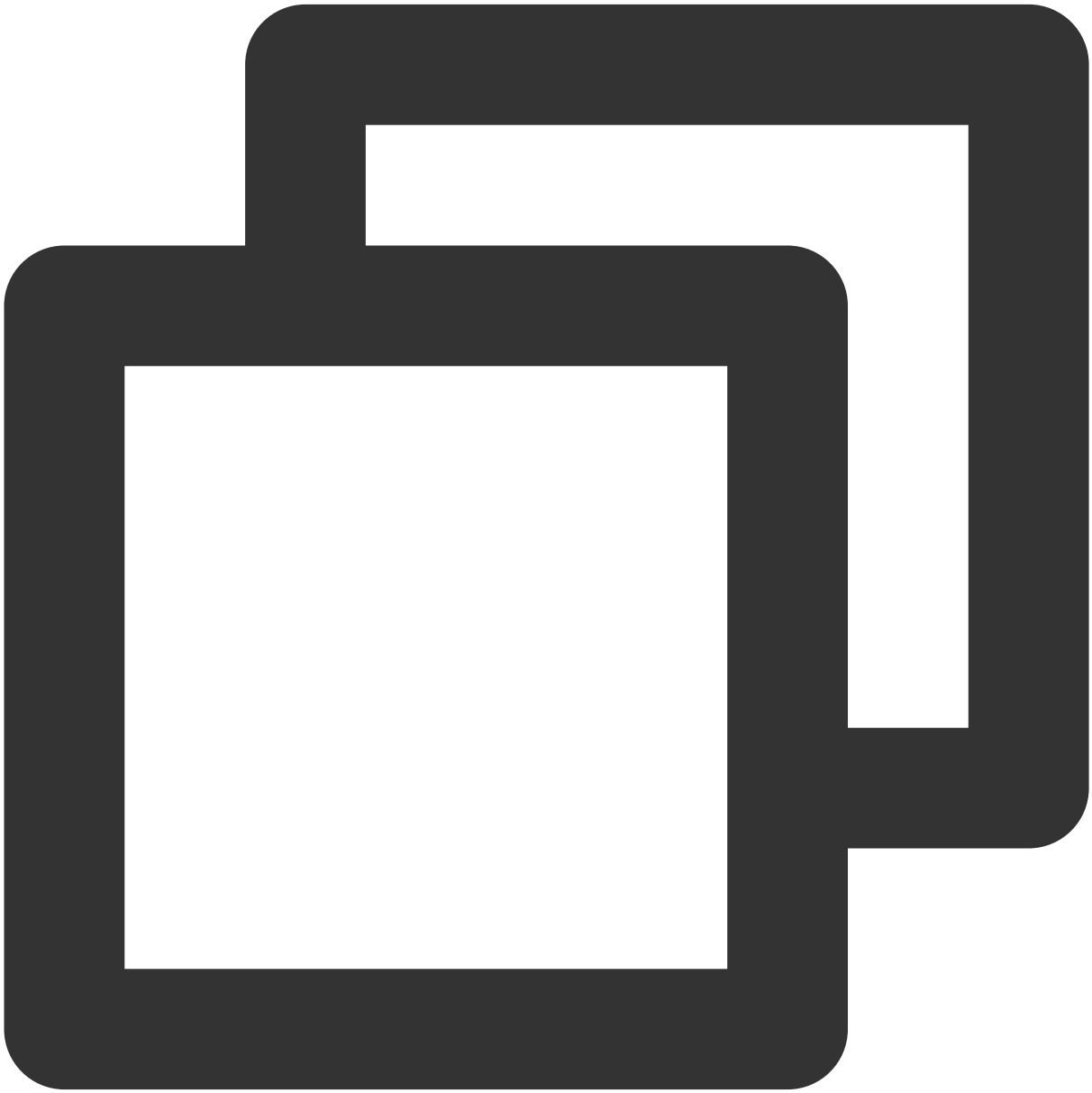
Sample code

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```
<view>
  <button type="primary" bindtap="button">Process an image during download</button>
</view>
```

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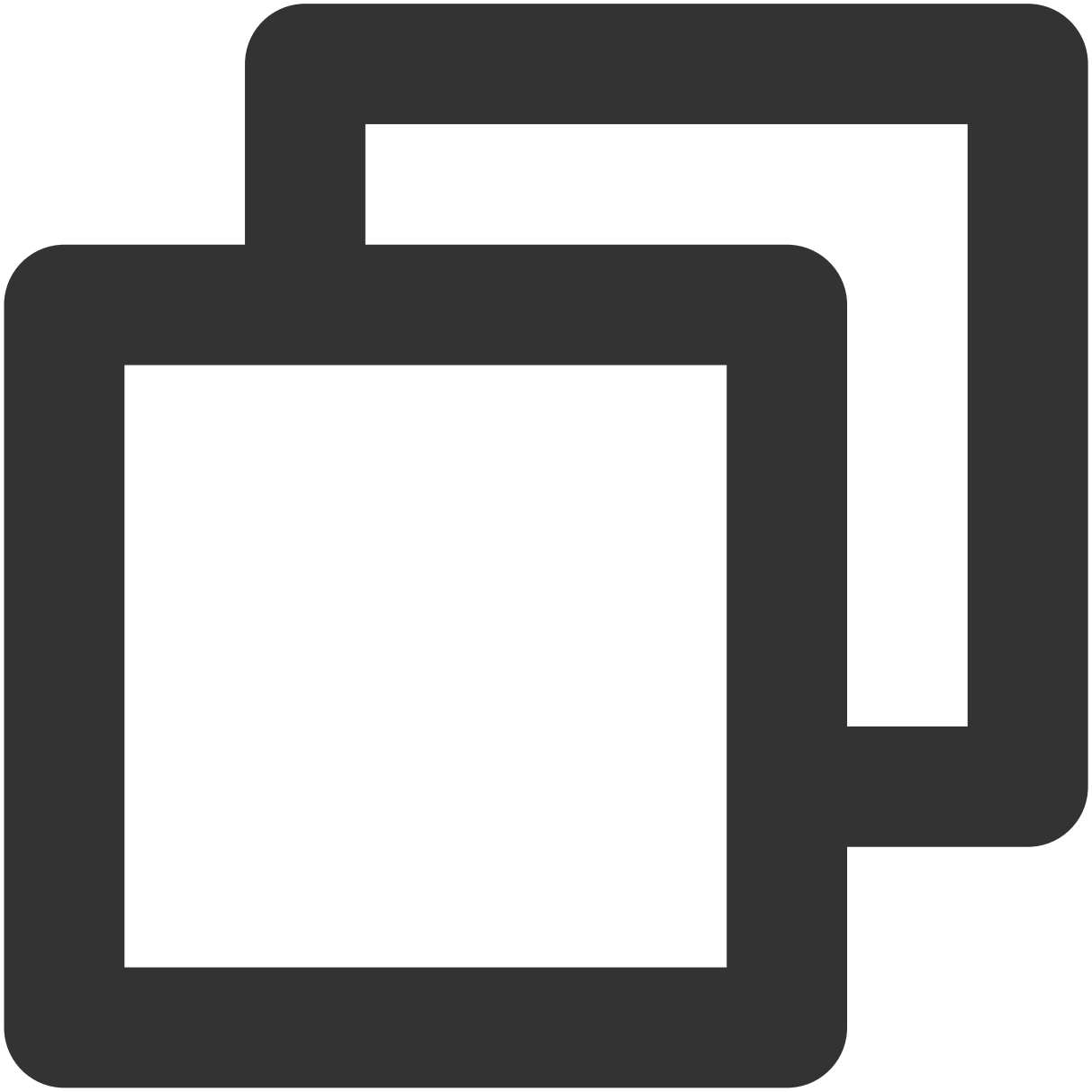
```
Page({
  button: function () {
    cos.getObject(
      {
        Bucket: 'examplebucket-1250000000',
        Region: 'COS_REGION',
        Key: 'exampleImage',
        QueryString: `imageMogr2/thumbnail/200x/`,
      },
      (err, data) => {
        console.log(err || data);
```

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```
        },
      );
    },
  });
```

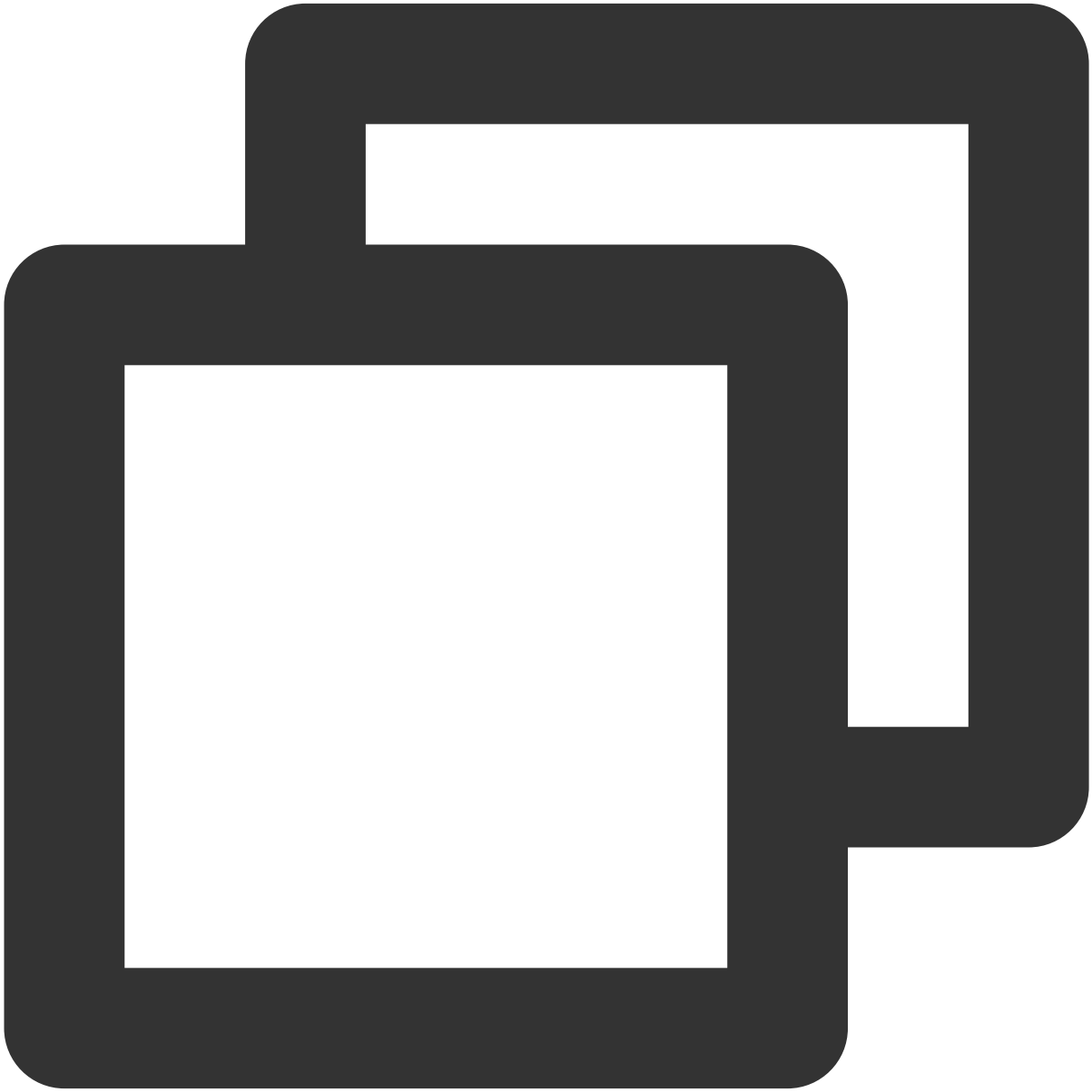
Generating Signed URL with Image Processing Parameters

Sample code



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```
<view>
  <button type="primary" bindtap="sign">Generate a signed URL with image processing
  <button type="primary" bindtap="unsign">Generate an unsigned URL with image proce
</view>
```



```
Page({
  sign: function () {
    // Generate a signed URL (valid for 30 minutes) with image processing parameter
    cos.getObjectUrl(
      {
```

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```
        Bucket: 'examplebucket-1250000000',
        Region: 'COS_REGION',
        Key: 'exampleobject',
        Query: {
          `imageMogr2/thumbnail/200x/`: ''
        },
        Expires: 1800,
        Sign: true,
      },
      (err, data) => {
        if (data) {
          console.log(data.URL);
        }
      },
    );
  },
  unsign: function () {
    // Generate an unsigned URL with image processing parameters.
    cos.getObjectUrl(
      {
        Bucket: 'examplebucket-1250000000',
        Region: 'COS_REGION',
        Key: 'exampleobject',
        Query: {
          `imageMogr2/thumbnail/200x/`: ''
        },
        Sign: false,
      },
      (err, data) => {
        if (data) {
          console.log(data.URL);
        }
      },
    );
  },
});
```

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Blind Watermark

Last updated：2024-03-01 15:15:09

Overview

This document provides an overview of APIs and SDK code samples for blind watermarking.
For blind watermark APIs, see Blind Watermark.

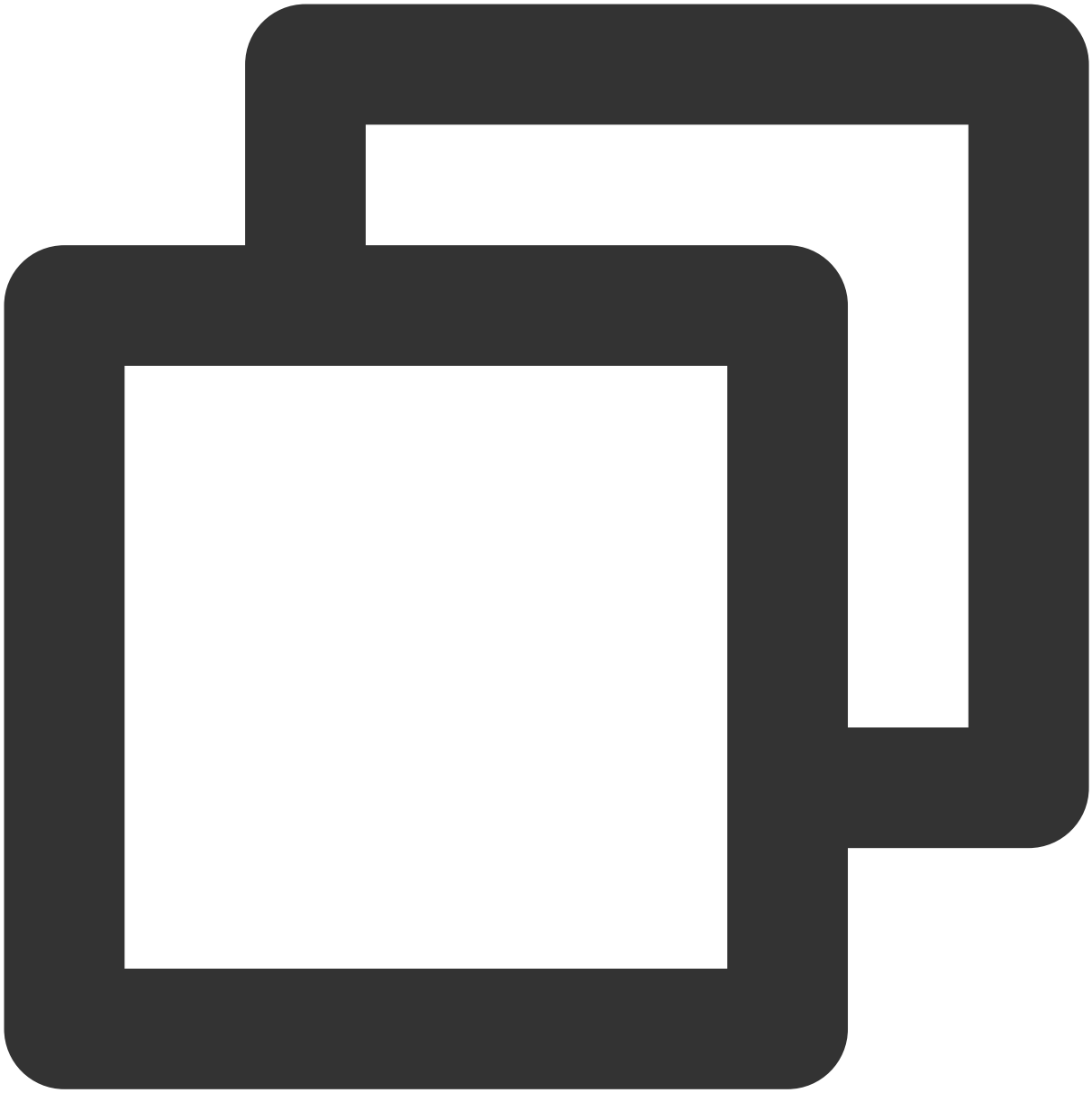
Adding Blind Watermark

Feature description

You can add a blind watermark when uploading or downloading an object.

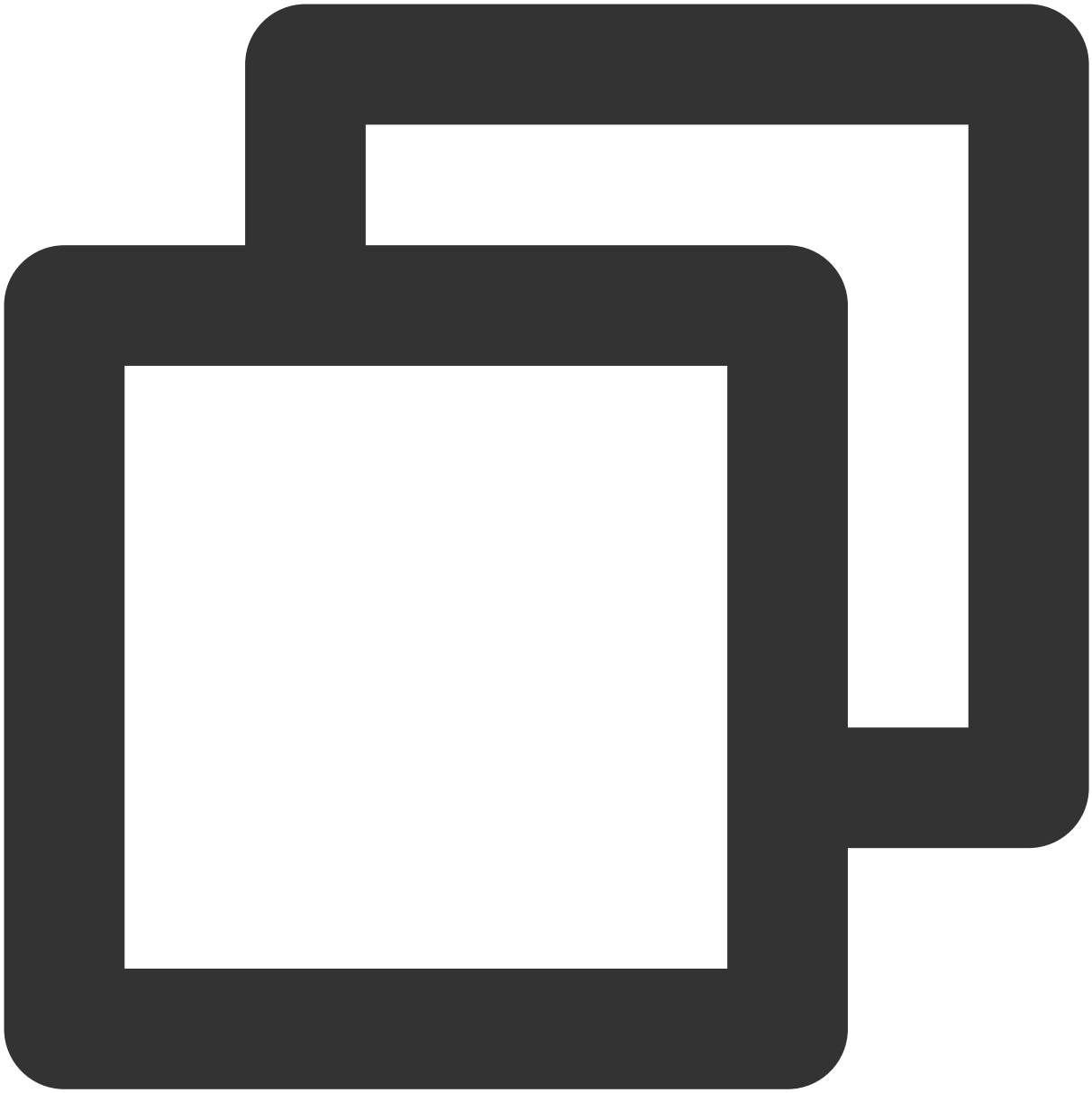
Sample 1: Adding a blind watermark during upload

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```
<view>
  <button type="primary" bindtap="button">Add a blind watermark during upload</butt
</view>
```

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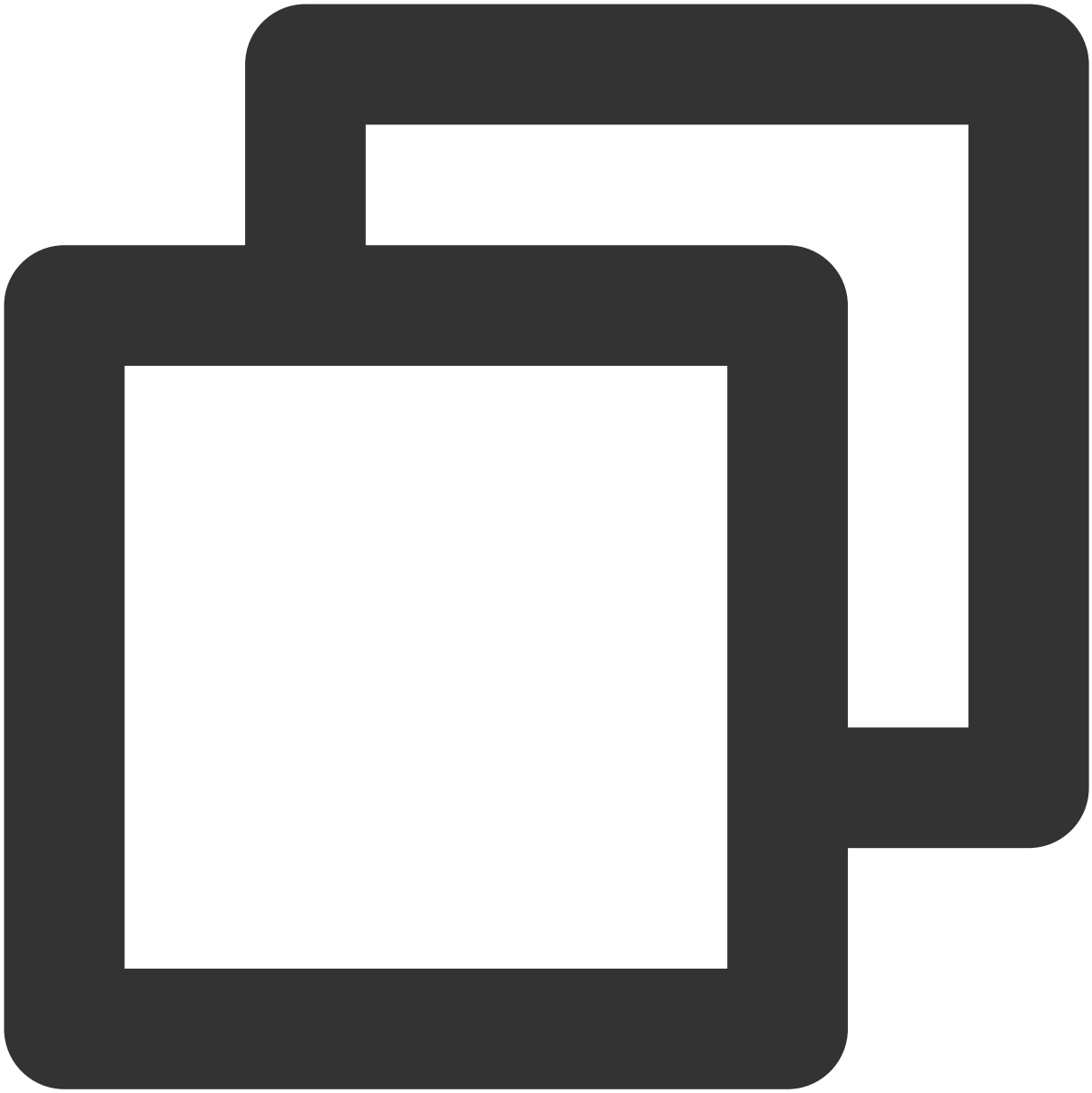
```
Page({
  button: function () {
    wx.chooseMessageFile({
      count: 10,
      type: 'all',
      success: function (res) {
        var file = res.tempFiles[0];
        wxfs.readFile({
          filePath: file.path,
          success: function (res) {
            cos.putObject(
```

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```
                {
                  Bucket: 'examplebucket-1250000000',
                  Region: 'COS_REGION',
                  Key: file.name,
                  Body: res.data,
                  Headers: {
                    // CI's persistent processing API during upload
                    'Pic-Operations': '{"is_pic_info": 1, "rules": [{"fileid": "desam
                  },
                },
                (err, data) => {
                  console.log(err || data);
                },
              );
            },
            fail: (err) => console.error(err),
          });
        },
        fail: (err) => console.error(err),
      });
    },
});
```

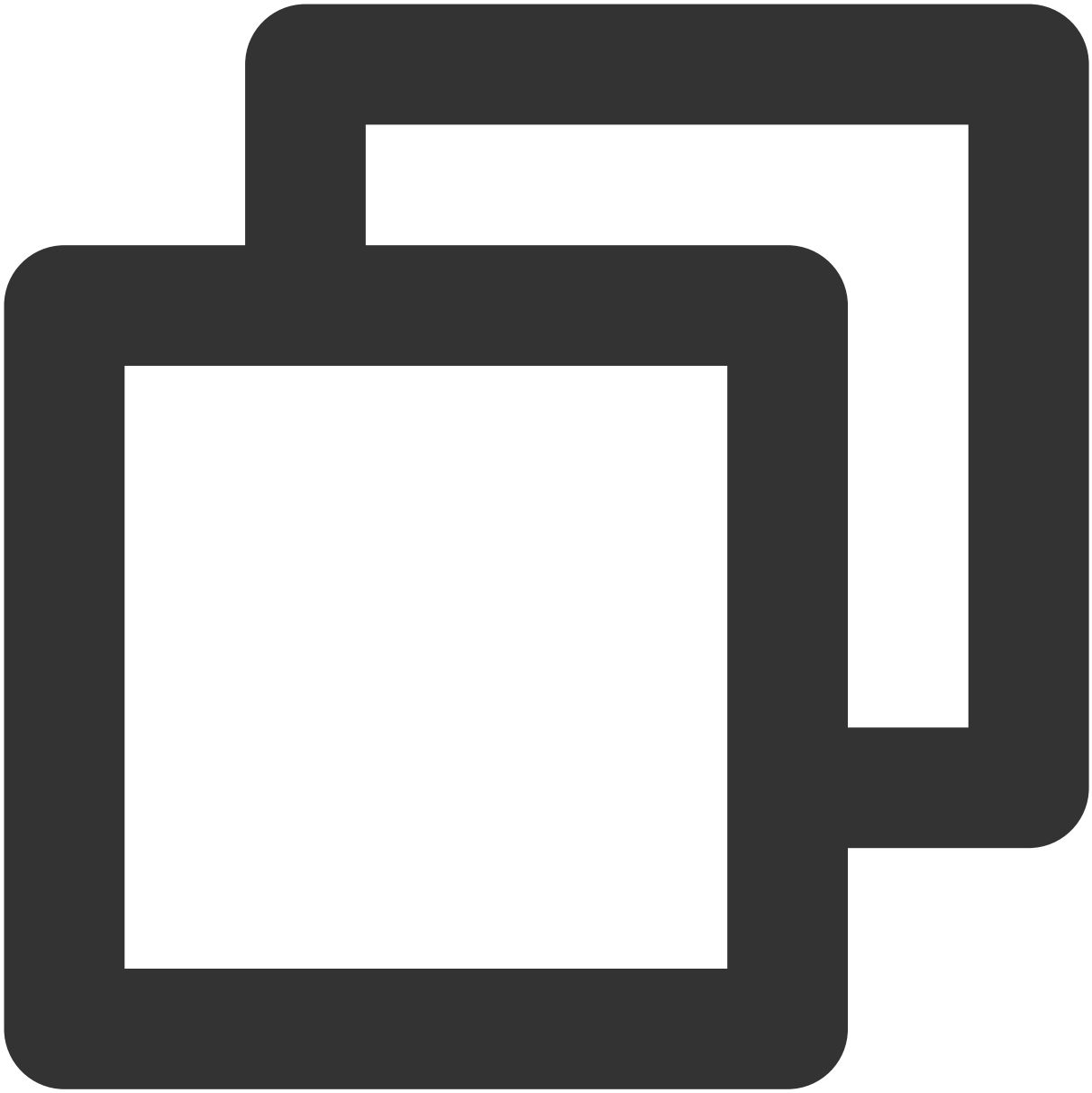
Sample 2: Adding a blind watermark during download

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```
<view>
  <button type="primary" bindtap="button">Add a blind watermark during download</bu
</view>
```

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```
Page({
  button: function () {
    cos.getObject(
      {
        Bucket: 'examplebucket-1250000000',
        Region: 'COS_REGION',
        Key: 'exampleImage',
        QueryString: `watermark/3/type/1/image/aHR0cDovL2V4YW1wbGVzLTEyNTEwMDAwMDQu
      },
      (err, data) => {
        console.log(err || data);
```

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```
        },
      );
    },
  });
```

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Media Processing
Media Bucket APIs

Last updated：2024-03-01 15:15:09

Overview

This document provides an overview of APIs and SDK code samples for media buckets.

API	Operation	Description
DescribeMediaBuckets	Querying media processing activation status	Queries buckets with media processing enabled

Querying Media Processing Activation Status

Feature description

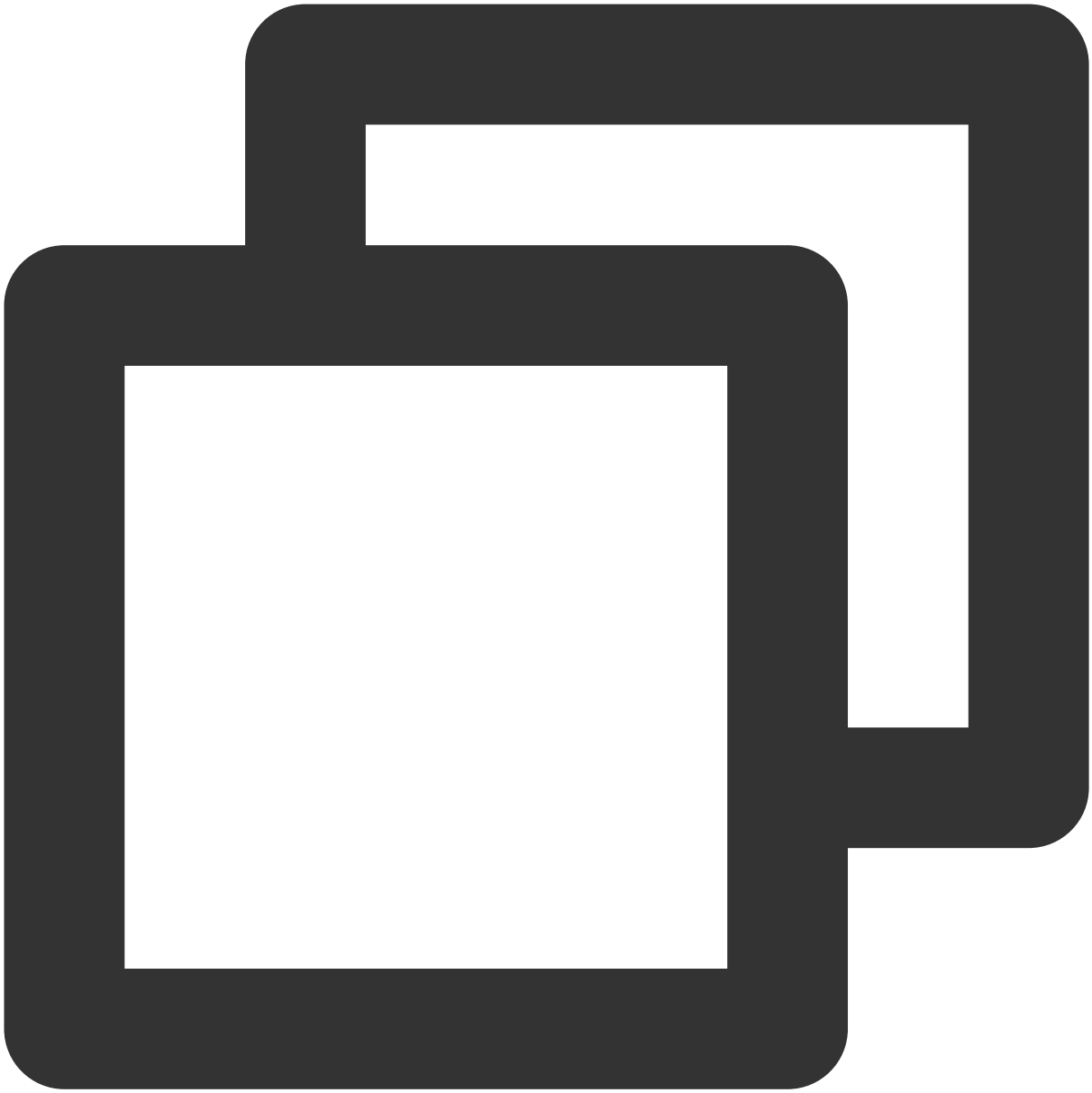
This API is used to query buckets with media processing enabled.

Note:

The COS Mini Program SDK version must be at least v1.1.1.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
var host = 'ci.' + config.Region + '.myqcloud.com';
var url = 'https://' + host + '/mediabucket';
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
```

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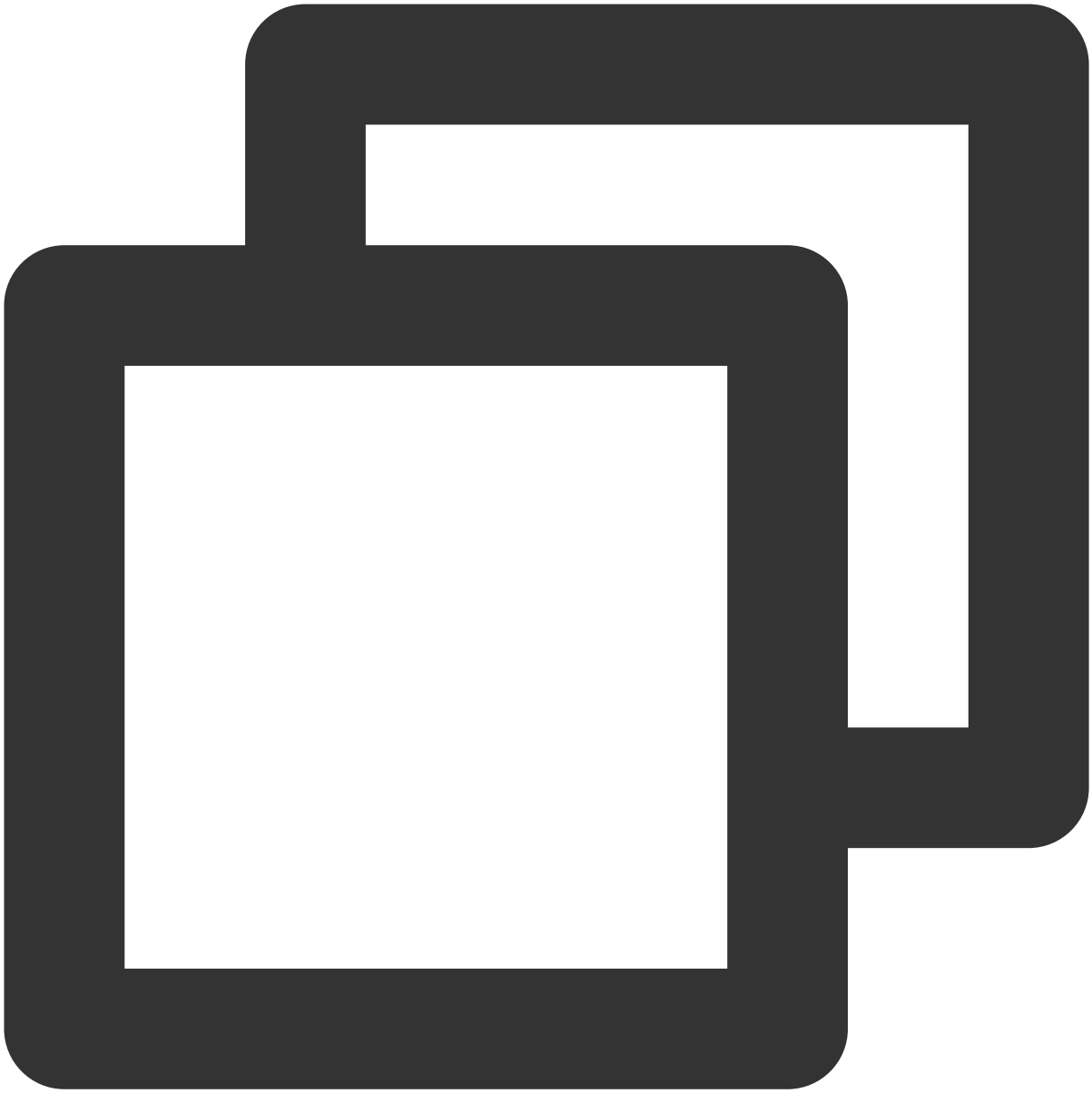
```
    Key: 'mediabucket', /** Fixed value (required) */
    Url: url,
    Query: {
        pageNumber: '1', /** Page number (optional) */
        pageSize: '10', /** Number of entries per page (optional) */
        // regions: 'ap-chengdu', /** Region (optional), such as 'ap-beijing'. To s
        // bucketNames: 'test-1250000000', /** Bucket name (optional), such as 'tes
        // bucketName: 'test', /** Bucket name prefix for prefix search (optional),
    }
}, function (err, data) {
    console.log(err || data);
});
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID`.	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Fixed value: mediabucket.	String	Yes
PageNumber	Page number.	String	No
PageSize	Number of entries per page.	String	No
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

Callback function description

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```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object

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data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object
- Response	Response result.	Object
- - RequestId	Unique ID of the request.	String
- - TotalCount	Total number of media buckets.	String
- - PageNumber	Current page number, which is the same as `pageNumber` in the request.	String
- - PageSize	Number of entries per page, which is the same as `pageSize` in the request.	String
- - MediaBucketList	Media bucket list.	Object
- - - BucketId	Bucket ID.	String
- - - Name	Bucket name, which is the same as `BucketId` .	String
- - - Region	Region.	String
- - - CreateTime	Creation time.	String

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Media Information APIs

Last updated：2024-03-01 15:15:09

Overview

This document provides an overview of APIs and SDK code samples for media information.

Note:

The COS Mini Program SDK version must be at least v1.1.1.

API	Operation	Description
GetMediaInfo	Querying file information	Queries media file information

Querying File Information

Feature description

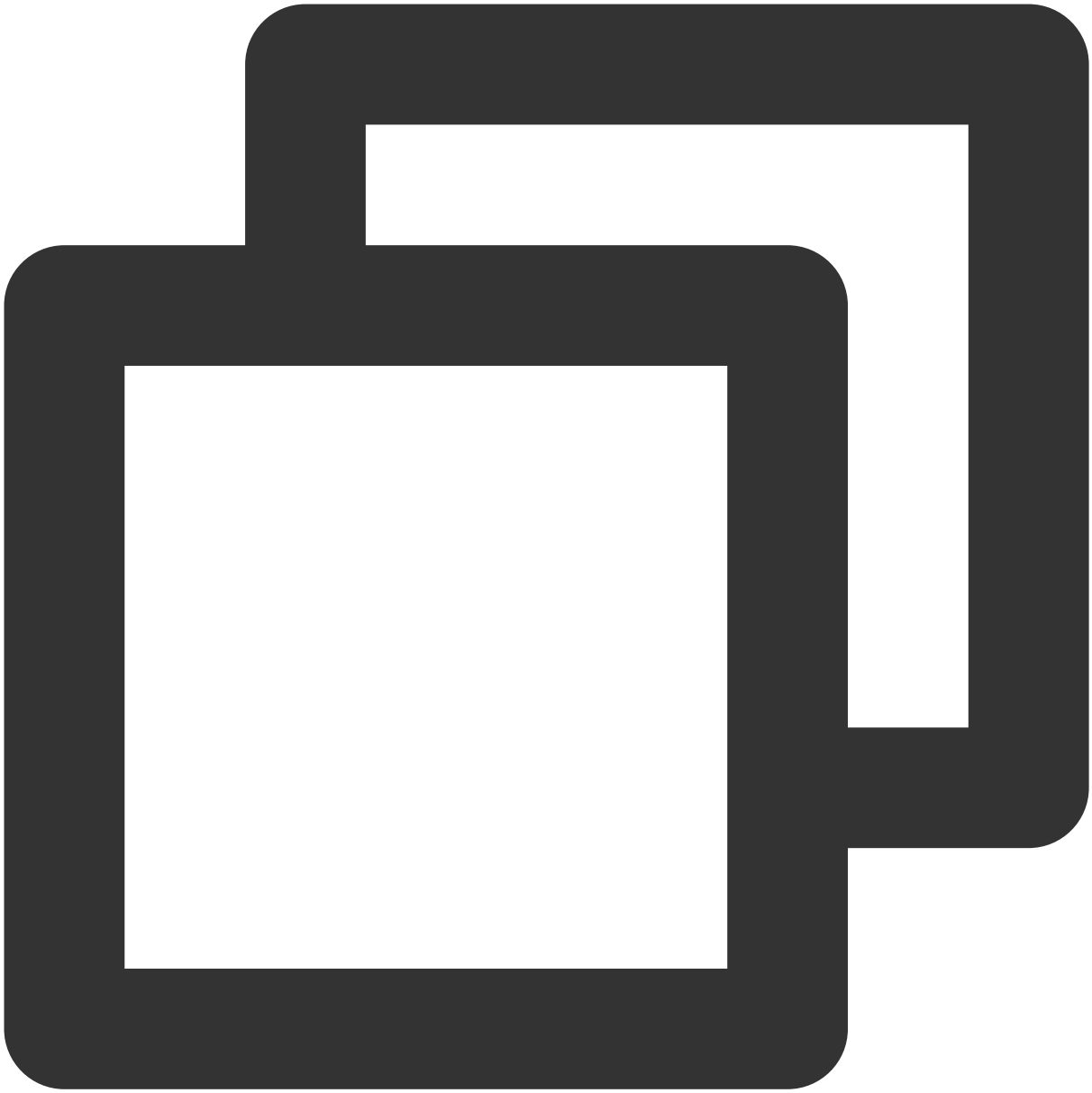
This API is used to query the information of a media file.

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
    Key: 'test.mp4',  /* Media file in bucket (required) */
    Query: {
```

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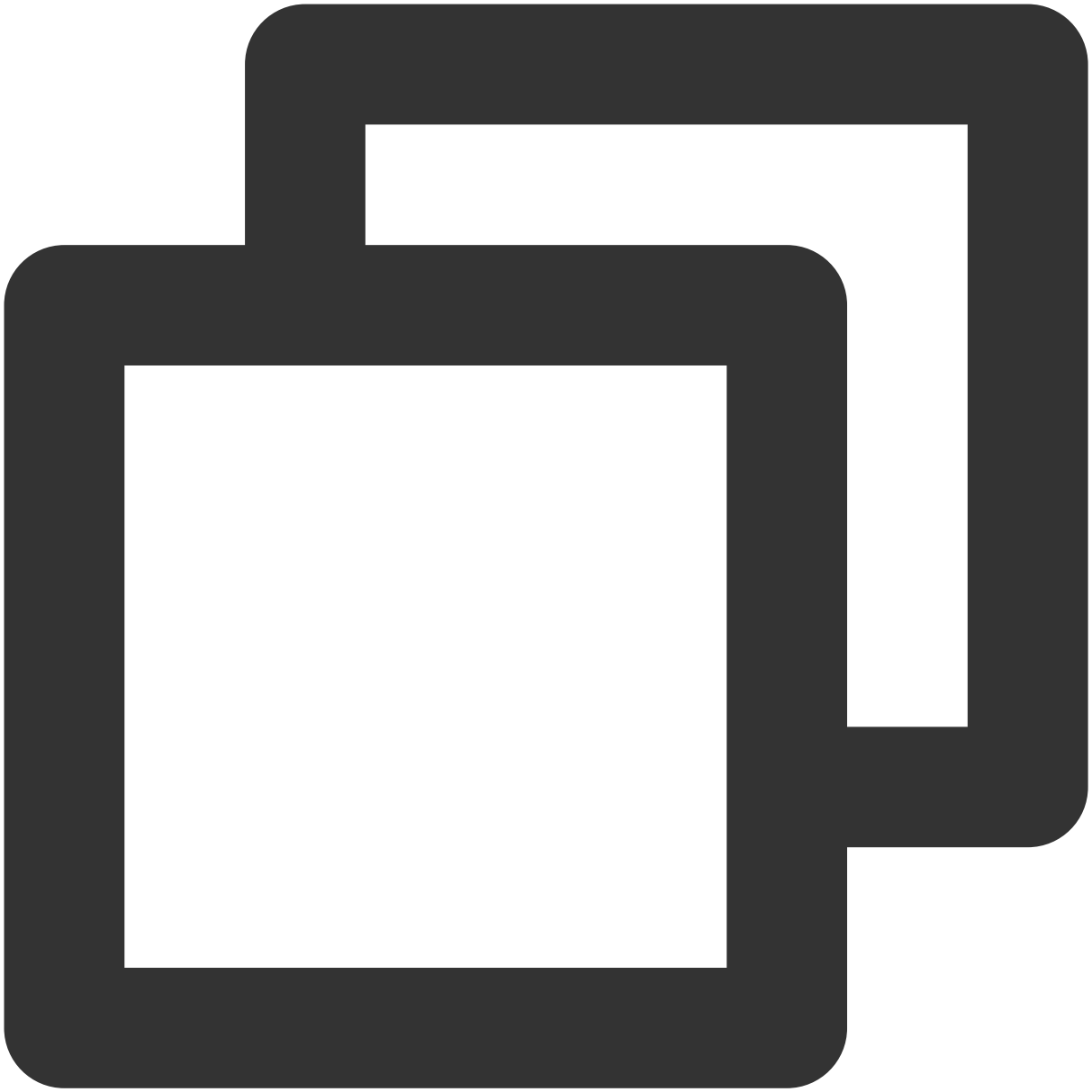
```
        'ci-process': 'videoinfo' /** Fixed value (required) */
    }
}, function (err, data) {
    console.log(err || data);
});
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Fixed value: mediabucket.	String	Yes
ci-process	Operation type, which is fixed at `videoinfo` .	String	Yes

Callback function description

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```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object

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data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200`, `403`, and `404`.	Number
- headers	Returned headers.	Object
- RequestId	Unique ID of the request.	String
- Response	Response result.	Object
- - MediaInfo	Media details.	Object
- - - Stream	Stream information.	Object
- - - - Video	Video information.	Container
- - - - - Index	Stream number.	Number
- - - - - CodecName	Codec format name.	String
- - - - - CodecLongName	Detailed name of the codec format	String
- - - - - CodecTimeBase	Codec timebase.	String
- - - - - CodecTagString	Codec tag name.	String
- - - - - CodecTag	Codec tag.	String
- - - - - Profile	Video codec profile.	String
- - - - - Height	Video height in px.	Number
- - - - - Width	Video width in px.	Number
- - - - - HasBFrame	Whether B-frames exist. 1: yes; 0: no.	Number
- - - - - RefFrames	Number of reference frames for video codec.	Number
- - - - - Sar	Sample aspect ratio.	String
- - - - - Dar	Display aspect ratio.	String
- - - - - PixFormat	Pixel format.	String
- - - - - FieldOrder	Field order.	String

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- - - - - Level	Video codec level.	Number
- - - - - Fps	Video frame rate.	Number
- - - - - AvgFps	Average frame rate.	String
- - - - - Timebase	Timebase.	String
- - - - - StartTime	Video start time in seconds.	Number
- - - - - Duration	Video duration in seconds.	Number
- - - - - Bitrate	Bitrate in Kbps.	Number
- - - - - NumFrames	Total number of frames.	Number
- - - - - Language	Language.	String
- - - - Audio	Audio information.	Container
- - - - - Index	Stream number.	Number
- - - - - CodecName	Codec format name.	String
- - - - - CodecLongName	Detailed name of the codec format.	String
- - - - - CodecTimeBase	Codec timebase.	String
- - - - - CodecTagString	Codec tag name.	String
- - - - - CodecTag	Codec tag.	String
- - - - - SampleFmt	Sample format.	String
- - - - - SampleRate	Sample rate.	Number
- - - - - Channel	Number of channels.	Number
- - - - - ChannelLayout	Channel layout.	String
- - - - - Timebase	Timebase.	String
- - - - - StartTime	Audio start time in seconds.	Number
- - - - - Duration	Audio duration in seconds.	Number

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- - - - - Bitrate	Bitrate in Kbps.	Number
- - - - - Language	Language.	String
- - - - Subtitle	Subtitles information.	Container
- - - - - Index	Stream number.	Number
- - - - - Language	Language. `und` indicates no query result.	String
- - - Format	Format information.	Object
- - - - NumStream	Number of streams (including videos, audios, and subtitles).	Number
- - - - NumProgram	Number of programs.	Number
- - - - FormatName	Container format name.	String
- - - - FormatLongName	Detailed name of the container format.	String
- - - - StartTime	Start time in seconds.	Number
- - - - Duration	Duration in seconds.	Number
- - - - Bitrate	Bitrate in Kbps.	Number
- - - - Size	Size in bytes.	Number

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Media Screenshot APIs

Last updated：2024-03-01 15:15:09

Overview

This document provides an overview of APIs and SDK code samples for media screenshot.

Note:

The COS Mini Program SDK version must be at least v1.1.1.

API	Operation	Description
GetSnapshot	Querying screenshot	Query the screenshot of media file at some time point

Querying Screenshot

Feature description

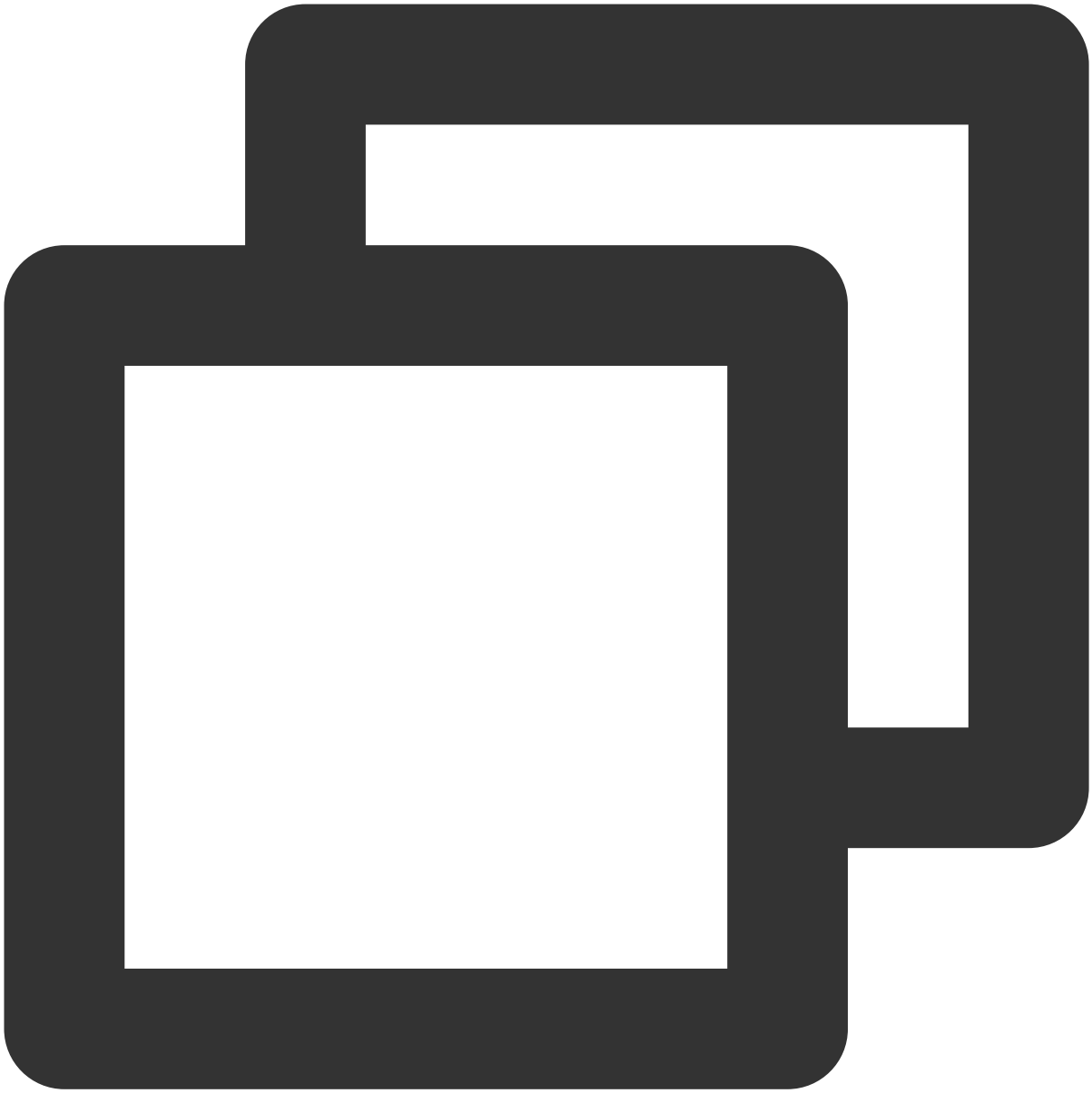
This API is used to query the screenshot of a media file at some time point.

Note:

Before using this API, make sure that the media processing feature has been enabled in the data processing section in the console; otherwise, the error `media bucket unbinded, bucket's host is unavailable` will be reported.

Sample code

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```
var config = {
  // Replace with your own bucket information
  Bucket: 'examplebucket-1250000000', /* Bucket (required) */
  Region: 'COS_REGION', /* Bucket region (required) */
};
cos.request({
    Bucket: config.Bucket,
    Region: config.Region,
    Method: 'GET',
    Key: 'test.mp4',  /* Media file in bucket (required) */
    Query: {
```

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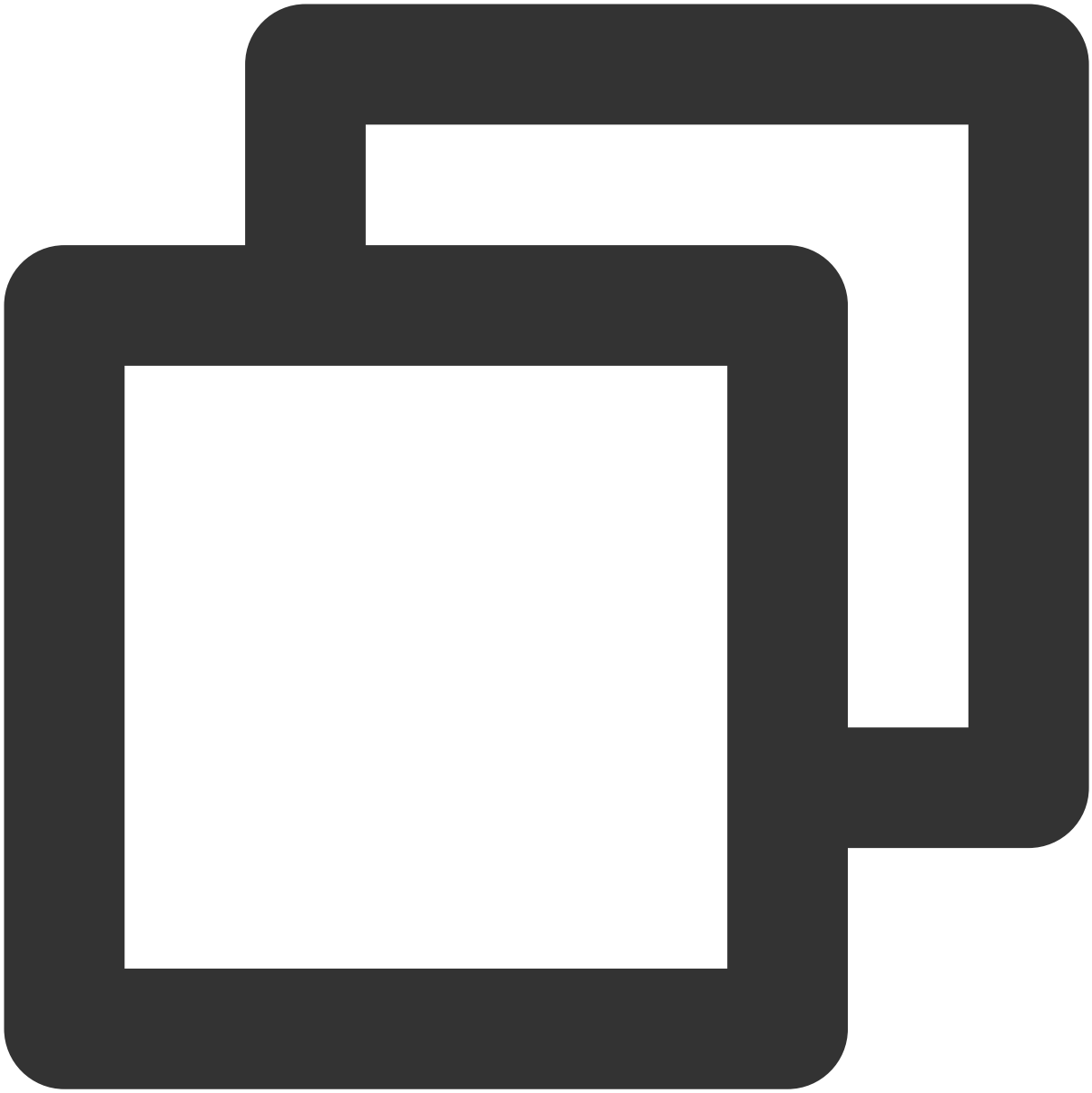
```
            'ci-process': 'snapshot', /** Fixed value (required) */
            time: 1, /** Screenshot time point in seconds (required) */
            // width: 0, /** Screenshot width (optional) */
            // height: 0, /** Screenshot height (optional) */
            // format: 'jpg', /** Screenshot format (optional). Valid values: jpg; png.
            // rotate: 'auto', /** Image rotation method (optional). Default value: aut
            // mode: 'exactframe', /** Frame capturing method (optional). Default value
        },
        RawBody: true,
    },
    function(err, data){
        console.log(err || data);
    });
```

Parameter description

Parameter	Description	Type	Required
Bucket	Bucket name in the format of `BucketName-APPID` .	String	Yes
Region	Bucket region. For the enumerated values, see Regions and Access Endpoints.	String	Yes
Key	Object key (object name), which is the unique identifier of the object in the bucket. For more information, see Object Overview.	String	Yes
ci-process	Operation type, which is fixed at `snapshot` .	String	Yes
time	Screenshot time point in seconds.	Number	Yes
width	Screenshot width. Default value: 0.	Number	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.	Number	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

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Callback function description



```
function(err, data) { ... }
```

Parameter	Description	Type
err	The object returned when an error (network error or service error) occurs. If the request is successful, this parameter is empty. For more information, see Error Codes.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number

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- headers	Returned headers.	Object
data	The object returned when the request is successful. If an error occurs with the request, this parameter is empty.	Object
- statusCode	Returned HTTP status code, such as `200` , `403` , and `404` .	Number
- headers	Returned headers.	Object
- RequestId	Unique ID of the request.	String
- Body	Returned file content, which is in string format by default.	String

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Content Moderation
Live Stream Moderation

Last updated：2024-03-01 15:15:09

Overview

This document describes how to use the content moderation feature provided by Cloud Infinite (CI). CI fully integrates the processing capabilities with the COS SDK.

Note

To use the content moderation service, you need to have the permission to use CI:

For root accounts, click here for role authorization.

For sub-accounts, see Authorizing Sub-Accounts to Access CI Services.

This document provides an overview of APIs and SDK code samples for live stream moderation.

Note

The COS Mini Program SDK version must be v1.1.1 or later.

API	Description
Submitting a live stream moderation job	Submits a live stream moderation job.
Querying live stream moderation job result	Queries the result of a specified live stream moderation job.

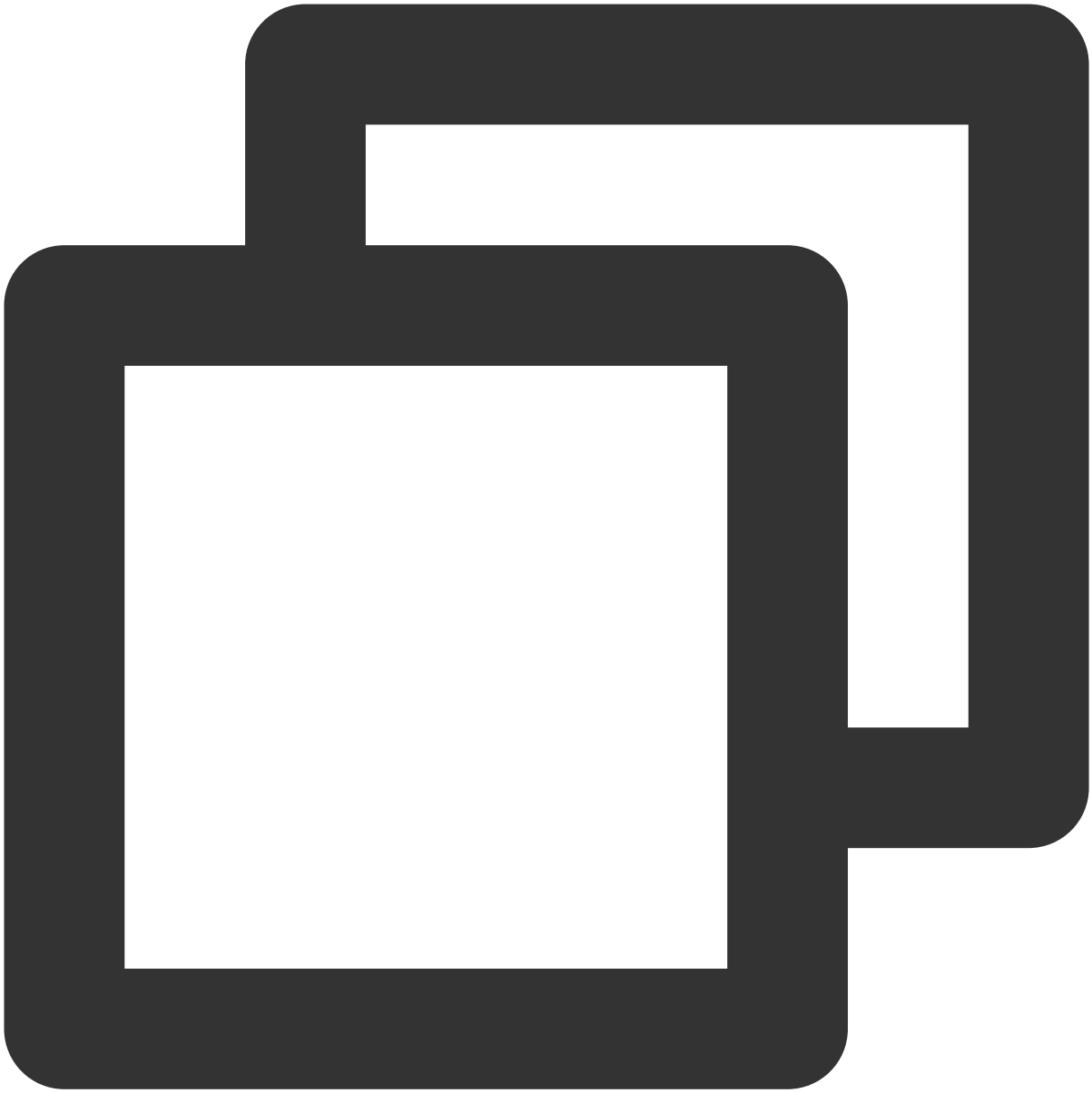
Submitting Live Stream Moderation Job

Feature description

This API is used to submit a live stream moderation job.

Sample request

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```
function postLiveAuditing() {
  var config = {
    // Replace with your own bucket information
    Bucket: 'examplebucket-1250000000', /* Bucket. Required */
    Region: 'COS_REGION', /* Bucket region. Required */
  };
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/video/auditing';
  var body = COS.util.json2xml({
    Request: {
      Type: 'live_video',
```

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```
        Input: {
          Url: 'rtmp://example.com/live/123', // The URL of the live stream to be mod
          // DataId: '',
          // UserInfo: {},
        },
        Conf: {
          BizType: '766d07a7af937c26216c51db29793ea6', // BizType can be obtained aft
          // Callback: 'https://callback.com', // Callback address. Optional
          // CallbackType: 1, // Callback segment type. Optional
        }
      }
    });
    cos.request({
        Bucket: config.Bucket,
        Region: config.Region,
        Method: 'POST',
        Url: url,
        Key: '/video/auditing',
        ContentType: 'application/xml',
        Body: body
    },
    function(err, data){
        console.log(err || data);
    });
}
postLiveAuditing();
```

Parameter description

Node Name (Keyword)	Parent Node	Description	Type	Required
Request	-	The configuration items for live stream moderation.	Container	Yes

`Request` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Type	Request	Moderation job type, which is fixed at `live_video` for live stream moderation.	String	Yes
Input	Request	The information of the live stream to be moderated.	Container	Yes
Conf	Request	The configuration information of the moderation rule.	Container	Yes

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StorageConf	Request	The configuration information of live stream storage.	Container	No

`Input` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Url	Request.Input	The URL of the live stream to be moderated, such as `rtmp://example.com/live/123`.	String	Yes
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	Custom field, which can be used to assist in behavioral data analysis.	Container	No

`UserInfo` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
TokenId	Request.Input.UserInfo	Account information, which can contain up to 128 bytes.	String	No
Nickname	Request.Input.UserInfo	Nickname information, which can contain up to 128 bytes.	String	No
DeviceId	Request.Input.UserInfo	Device information, which can contain up to 128 bytes.	String	No
AppId	Request.Input.UserInfo	Unique app ID, which can contain up to 128 bytes.	String	No
Room	Request.Input.UserInfo	Room ID information, which can contain up to 128 bytes.	String	No
IP	Request.Input.UserInfo	IP address information, 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	User account to receive messages, which can contain up to 128 bytes.	String	No

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Gender	Request.Input.UserInfo	Gender information, which can contain up to 128 bytes.	String	No
Level	Request.Input.UserInfo	Level information, which can contain up to 128 bytes.	String	No
Role	Request.Input.UserInfo	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 configure the scenes you want to moderate on the moderation policy page in the console, such as pornographic, advertising, and illegal information. For configuration instructions, 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.	String	Yes
Callback	Request.Conf	Callback address, which must start with `http://` or `https://`.	String	No
CallbackType	Request.Conf	Callback segment type. Valid values: `1` (calls back all captured frames and audio segments); `2` (calls back only non-compliant captured frames and audio segments). Default value: `1`.	Integer	No

`StorageConf` has the following sub-nodes:

Node Name (Keyword)	Parent Node	Description	Type	Required
Path	Request.StorageConf	The path where to dump the live stream. The TS and M3U8 files of the live stream will be saved in this directory of the bucket. The M3U8 file will be named `Path/{$JobId}.m3u8`, and the TS file will be named `Path/{$JobId}-`	String	No

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		`{$Realtime}.ts`, where `Realtime` is the 17-digit time of `year, month, day, hour, minute, second, and millisecond`.		

Response description

For more information, see Submitting Live Stream Moderation Job.

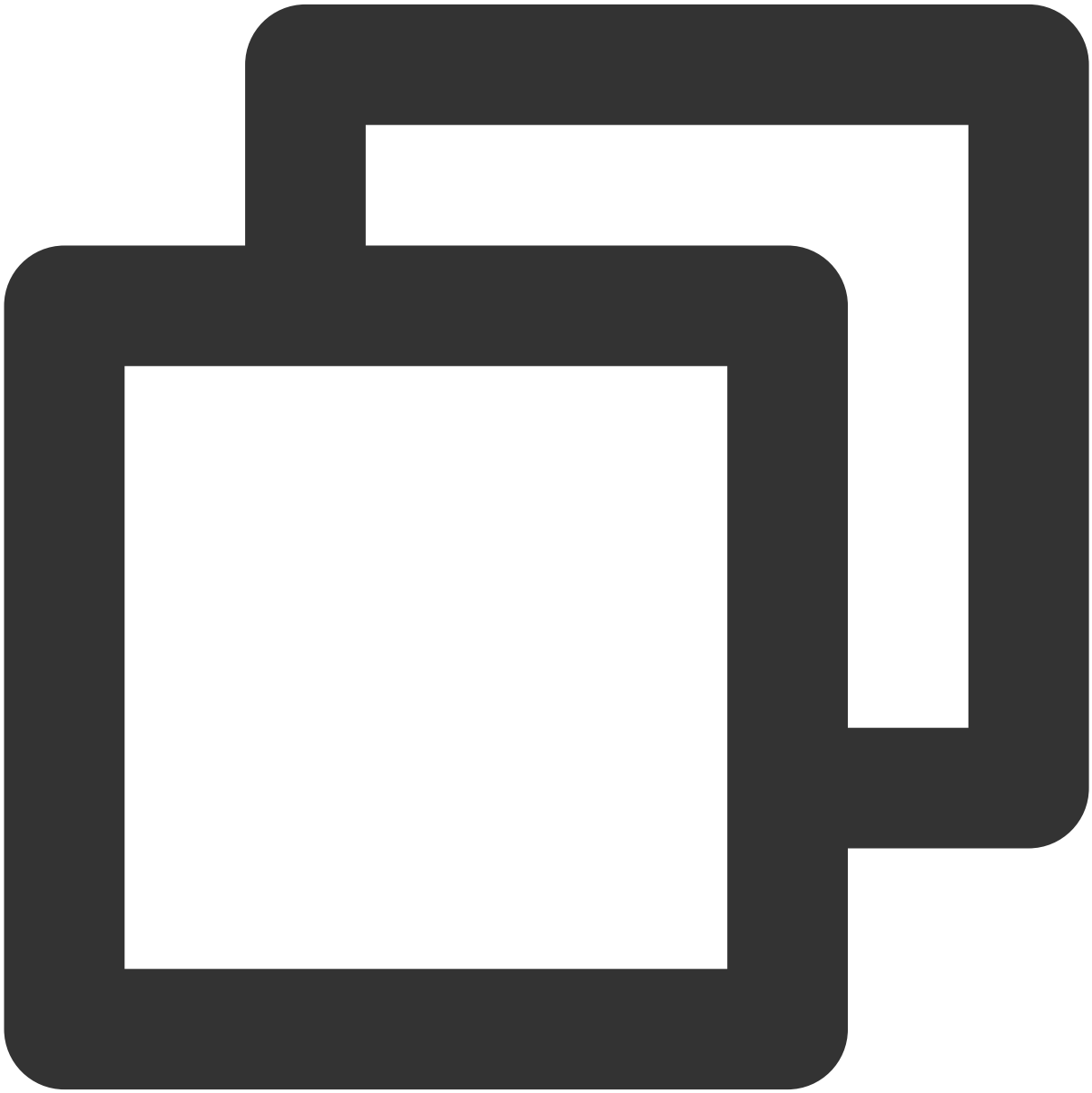
Querying Live Stream Moderation Job Result

Feature description

This API is used to query the status and result of a live stream moderation job.

Sample request

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```
function getLiveAuditingResult() {
  var config = {
    // Replace with your own bucket information
    Bucket: 'examplebucket-1250000000', /* Bucket. Required */
    Region: 'COS_REGION', /* Bucket region. Required */
  };
  var jobId = 'av0ca69557bd6111ed904c5254009411xx'; // `jobId`, which is returned a
  var host = config.Bucket + '.ci.' + config.Region + '.myqcloud.com';
  var url = 'https://' + host + '/video/auditing/' + jobId;
  cos.request({
      Bucket: config.Bucket,
```

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```
        Region: config.Region,
        Method: 'GET',
        Key: '/video/auditing/' + jobId,
        Url: url,
    },
    function(err, data){
        console.log(err || data);
    });
}
getLiveAuditingResult();
```

Parameter description

Parameter	Description	Type	Required
jobId	ID of the job to be queried.	String	Yes

Response description

For more information, see Querying Live Stream Moderation Job Result.

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Personal Information Protection Policy for SDK
Personal Information Protection Policy for CI SDK

Last updated：2024-03-01 15:15:09

Introduction

The CI SDK (the "SDK Product") is developed by Tencent Cloud Computing (Beijing) Co., Ltd. ("we", "us", or "our") with the registered address at 309, 3/F (West), No. 49, Zhichun Road, Haidian District, Beijing, China.
This Personal Information Protection Policy for CI SDK ("Policy") is intended to inform developers and end users of the collection, use, and processing of end users' personal information by the SDK Product as necessary to implement its features.
Please read this Policy carefully. If you are a developer, please acknowledge that you fully understand and agree to this Policy before integrating the SDK Product. If you do not consent to this Policy or agree to fulfill your obligations to protect end users' personal information in accordance with this Policy, you must immediately stop connecting to and using the SDK Product. You shall integrate the SDK Product and process end users' personal information only after obtaining their consent.

Notes

If you are a developer,
1. **You shall comply with applicable laws and regulations in connection with your collection, use, and processing of end users' personal information, including but not limited to developing and publishing a privacy policy governing personal information protection.**
2. **Before integrating the SDK Product, you shall inform end users of the collection, use, and processing of their personal information by the SDK Product and legally obtain their consent.**
3. **Unless otherwise required by laws and regulations, you shall not collect end users' personal information before obtaining their consent.**
4. **You shall provide an easy-to-use, legally compliant mechanism that allows end users to exercise their rights and explain to them how to query, copy, modify, delete, restrict the processing of, transfer, or get a copy of their personal information, withdraw their consent, and cancel their account.**
5. **You shall comply with the requirements specified in this Policy.**

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If you have any questions or comments about the content of this Policy, feel free to contact us through the channels as provided in Article 7 of this Policy.

1. Information We Collect and How We Use It

1.1 Personal information required to implement the features of the SDK Product

The implementation of the features of the SDK Product does not require collecting any personal information of end users.

1.2 Permissions required to implement the features of the SDK Product

To implement the features of the SDK Product, we will request the required permissions through the application.

OS	Permission	Purpose	Required
iOS	Network permission	To allow the network access	Applied for by the application and not involved in the SDK

Note that the permission display and disablement methods may vary by device and system and are subject to the used device and as further described in the operating system developers' instructions. By disabling a permission, end users deny the permission. In this case, we and developers will no longer collect and use the personal information corresponding to the permission and thus will not be able to provide the features that can be provided only if end users enable the permission.

1.3 Exceptions to requiring user consent under laws and regulations

1. As necessary for the conclusion or performance of the contract with end users.
2. As necessary to fulfill our legal obligations.
3. As necessary to cope with public health emergencies or protect the health or property safety of end users in an emergency.
4. The reasonable processing of end users' personal information for news coverage or public opinion supervision in line with the public interest.
5. The reasonable processing of end users' personal information made public by themselves or otherwise legally made public in accordance with this Policy.
6. Other circumstances stipulated by laws and regulations.

Note: Any information collected by us that cannot identify end users alone or in combination with other information is not personal information within the meaning of the law.

2. How End Users Manage Their Own Information

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We attach great importance to end users' right to manage their personal information and endeavor to help them do so, including querying, copying, and deleting their personal information, canceling their account, and configuring the privacy feature, to safeguard their rights. If you are a developer, you must provide methods for end users to query, copy, modify, and delete their personal information, withdraw their consent, and cancel their account.
End users have the right to withdraw their consent to the processing of their personal information based on such consent. We offer developers the capabilities to disable the SDK Product as instructed in Getting Started for Android or Getting Started for iOS. As we cannot interact directly with end users through UIs, end users can directly contact developers and request them to stop using the SDK Product, or contact us through the channels as provided in Article 7 of this Policy. If you are an end user, you understand that specific business features or services can be implemented only if you provide the information required by such features or services. If you withdraw your consent, we will be unable to continue providing the corresponding features or services, nor will we further process your relevant personal information. Your decision to withdraw your consent does not affect our processing of your personal information previously collected based on such consent.

3. Information Storage

3.1 Information storage location

We will store personal information collected and generated in the territory of China in the territory of China in accordance with laws and regulations.

3.2 Information retention period

Generally, we retain end users' personal information only for the minimum period of time necessary to achieve the purposes as described in this Policy, except:
To comply with applicable laws and regulations.
To comply with court decisions, judgments, or other legal proceedings.
To comply with the law enforcement requirements of applicable government authorities.

4. Information Security

We implement appropriate safeguards to protect end users' personal information from loss, improper use, or unauthorized access or disclosure.
We protect end users' personal information in strict accordance with laws and regulations.
We use various safeguards within a reasonable level of security to protect the security of information.
For example, we use encryption, anonymization, and other means to protect end users' personal information.
We have a rigorous management policy, process, and organization in place to guarantee the information security.
For example, we strictly limit the access to information to specific people, request them to comply with their

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confidentiality obligations, and review their compliance.
In the event of a security incident such as personal information leakage, we will launch the contingency plan to prevent the expansion of the incident and notify developers through such means as push notification and notice.

5. Minor Protection

The SDK Product is oriented to adults.
If you are a developer, and end users are minors under the age of 14 ("minors"), you must inform the minors' parents or legal guardians of this Policy and may not process the minors' personal information unless you have obtained the consent of their parents or legal guardians. If we find that you have provided the personal information of minors to us without the consent of their guardians, we will take action to delete such personal information as soon as possible.
If you are the guardian of a minor and have any questions or claims regarding the protection of the minor's personal information, you can contact developers or contact us through the channels as provided in Article 7 of this Policy.

6. Changes

We may revise this Policy from time to time.
If any revisions to this Policy will lead to the substantial derogation of end users' rights under this Policy, we will announce such revisions through website notices or other means before such revisions take effect. If you are a developer, and the updated Policy specifies changes in the processing of end users' personal information, you must update your privacy policy in due course, notify end users in the form of a pop-up window, and obtain their consent. **If end users do not agree to this Policy, you must stop integrating the SDK Product.**

7. Contact Us

We have set up a personal information protection team and a personal information protection officer. If you have any questions, complaints, or comments about this Policy or personal information protection, you can:
Contact us through Tencent Customer Service.
Email your questions to `Dataprivacy@tencent.com` .
Mail to Data Privacy Protection Department, Tencent Binhai Building, No. 33, Haitian 2nd Road, Nanshan District, Shenzhen, Guangdong, China, 518054.
We will review such questions, complaints, or comments and respond within 15 business days or such other period as may be specified by laws and regulations.

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