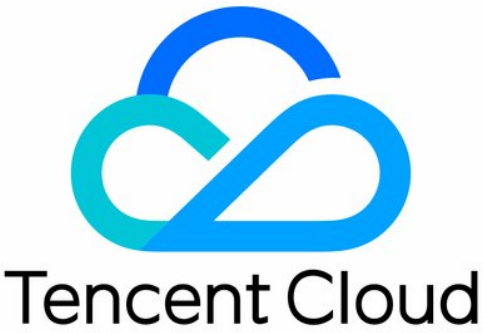
Enterprise Content Delivery Network

API Documentation

Product Documentation



Contents

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New data structures:

- AdvanceHttps

Modified data structures:

- DomainBriefInfo
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- DescribeEcdnDomainStatistics
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- IpStatus
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- AddEcdnDomain
  - New input parameters:Tag, WebSocket

New data structures:

- Tag
- WebSocket

Modified data structures:

- DomainDetailInfo

- New members:Tag, WebSocket

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New APIs:

- DescribeIpStatus

New data structures:

- IpStatus

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Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- AddEcdnDomain
- DeleteEcdnDomain
- DescribeDomains
- DescribeDomainsConfig
- DescribeEcdnDomainLogs
- DescribeEcdnDomainStatistics
- DescribeEcdnStatistics
- DescribePurgeQuota
- DescribePurgeTasks
- PurgePathCache
- PurgeUrlsCache
- StartEcdnDomain
- StopEcdnDomain
- UpdateDomainConfig

Existing data structures:

- Cache
- CacheKey
- CacheRule
- ClientCert
- DetailData
- DomainBriefInfo
- DomainData
- DomainDetailInfo
- DomainFilter
- DomainLogs
- EcdnData
- ForceRedirect
- Hsts
- HttpHeaderPathRule
- Https
- IpFilter
- IpFreqLimit
- Origin
- PurgeTask
- Quota
- ResourceData
- ResponseHeader
- ServerCert
- Sort
- TimestampData

Introduction

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Welcome to Tencent Cloud Enterprise Content Delivery Network (ECDN).

ECDN integrates static edge caching and dynamic origin-pull route optimization to provide a one-stop content delivery acceleration service with high reliability and low latency. It effectively resolves issues such as service instability and high latency caused by cross-border and cross-ISP data transfer.

API Category

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Data Query APIs

API Name	Feature
DescribeEcdnDomainStatistics	Queries domain name statistical metrics
DescribeEcdnStatistics	Queries access data

Content Management APIs

API Name	Feature
DescribePurgeQuota	Queries purge usage quota
DescribePurgeTasks	Queries purge history
PurgePathCache	Purges directories
PurgeUrlsCache	Purges URLs

Domain Name Management APIs

API Name	Feature
AddEcdnDomain	Creates an acceleration domain name
DeleteEcdnDomain	Deletes an acceleration domain name
StartEcdnDomain	Enables an acceleration domain name
StopEcdnDomain	Disables an acceleration domain name

Service Query APIs

API Name	Feature
DescribeIpStatus	Queries ECDN node IPs

Configuration Management APIs

API Name	Feature
DescribeDomains	Queries the basic information of a domain name
DescribeDomainsConfig	Queries the detailed configuration of a domain name
UpdateDomainConfig	Updates domain name configuration

Log Query APIs

API Name	Feature
DescribeEcdnDomainLogs	Queries the log download link of a domain name

Making API Requests
Request Structure

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1. Service Address

The API supports access from either a nearby region (at ecdn.tencentcloudapi.com) or a specified region (at ecdn.ap-guangzhou.tencentcloudapi.com for Guangzhou, for example).

We recommend using the domain name to access the nearest server. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, the result is the same as that of specifying the region in the domain like "ecdn.ap-guangzhou.tencentcloudapi.com".

Note: For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

Hosted region	Domain name
Local access region (recommended, only for non-financial availability zones)	ecdn.tencentcloudapi.com
South China (Guangzhou)	ecdn.ap-guangzhou.tencentcloudapi.com
East China (Shanghai)	ecdn.ap-shanghai.tencentcloudapi.com
North China (Beijing)	ecdn.ap-beijing.tencentcloudapi.com
Southwest China (Chengdu)	ecdn.ap-chengdu.tencentcloudapi.com
Southwest China (Chongqing)	ecdn.ap-chongqing.tencentcloudapi.com
Hong Kong, Macao, Taiwan (Hong Kong, China)	ecdn.ap-hongkong.tencentcloudapi.com
Southeast Asia (Singapore)	ecdn.ap-singapore.tencentcloudapi.com

Southeast Asia (Bangkok)	ecdn.ap-bangkok.tencentcloudapi.com
South Asia (Mumbai)	ecdn.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	ecdn.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	ecdn.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	ecdn.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	ecdn.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	ecdn.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	ecdn.eu-frankfurt.tencentcloudapi.com
Europe (Moscow)	ecdn.eu-moscow.tencentcloudapi.com

2. Communications Protocol

All the Tencent Cloud APIs communicate via HTTPS, providing highly secure communication tunnels.

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

- application/json (recommended). The TC3-HMAC-SHA256 signature algorithm must be used.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature algorithm must be used.
- multipart/form-data (only supported by certain APIs). You must use TC3-HMAC-SHA256 to calculate the signature.

The size of a GET request packet is up to 32 KB. The size of a POST request is up to 1 MB when the HmacSHA1 or HmacSHA256 signature algorithm is used, and up to 10 MB when TC3-HMAC-SHA256 is used.

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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Common parameters are used for all APIs authenticating requestors. Common parameters must be included in all API requests, and they will not be described in individual API documents.

Signature Algorithm v3

When the TC3-HMAC-SHA256 algorithm is used, the common parameters should be uniformly placed in the HTTP request header, as shown below:

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter `Action` in the input parameters in r documentation. For example, the API for querying the CVM instance list i `DescribeInstances` .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data y work with belongs. For values supported for an API, see the description c parameter `Region` in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relate documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request for example, 1529223702. Note: If the difference between the UNIX times server time is greater than 5 minutes, a signature expiration error may oc
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the c parameter `Version` in the API documentation. For example, the versi 2017-03-12.

Parameter Name	Type	Required	Description
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date is UTC time, and this value must match the value of X-TC-Timestamp (a co parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencer refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication informatic type and host are the required headers; - Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a tempora can obtain the temporary key and token by calling a CAM API. No token i a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/20
18-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993
f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

The following example shows you how to structure an HTTP POST (application/json) request:

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
```

```
2d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

{"Offset":0,"Limit":10}
```

Example of an HTTP POST (multipart/form-data) request structure (only supported by specific APIs):

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

--58731222010402
Content-Disposition: form-data; name="Offset"

0
--58731222010402
Content-Disposition: form-data; name="Limit"

10
--58731222010402--
```

Signature Algorithm v1

To adopt the HmacSHA1 and HmacSHA256 signature methods, common parameters must be put into the request string, as shown below:

Parameter Name	Type	Required	Description

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter `Action` in the input parameters in related API documentation. For example, the API for querying the CVM instance list is `DescribeInstances`.
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter `Region` in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.
Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with `Timestamp` to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).
Signature	String	Yes	Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.
Version	String	Yes	API version of the action. For the valid values, see the description of the common input parameter `Version` in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&Sign
atureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb45
9b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId
=AKIDEXAMPLE

Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded
```

Example of an HTTP POST request structure:

```
https://cvm.tencentcloudapi.com/

Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded

Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=
1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the Tencent Cloud Console.
2. Go to the TencentCloud API Key console page.
3. On the TencentCloud API Key page, click **Create** to create a SecretId/SecretKey pair.

Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including Python, Java, PHP, Go, NodeJS and .NET. In addition, it provides API Explorer which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats,

Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information. The POST method is recommended, as there is no difference in the results of both the methods, but the GET method only supports request packets up to 32 KB.

The following uses querying the list of CVM instances in the Guangzhou region as an example to describe the steps of signature splicing. We chose this API because:

1. CVM is activated by default, and this API is often used;
2. It is read-only and does not change the status of existing resources;
3. It covers many types of parameters, which allows it to be used to demonstrate how to use arrays containing data structures.

In the example, we try to choose common parameters and API parameters that are prone to mistakes. When you actually call an API, please use parameters based on the actual conditions. The parameters vary by API. Do not copy the parameters and values in this example.

Assuming that your SecretId and SecretKey are `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******` and `Gu5t9xGARNpq86cd98joQYCN3*******`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3******
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e4
1437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

Concatenate the canonical request string (CanonicalRequest) in the following pseudocode format:

```
CanonicalRequest =
HTTPRequestMethod + '\n' +
CanonicalURI + '\n' +
```

```
CanonicalQueryString + '\n' +
CanonicalHeaders + '\n' +
SignedHeaders + '\n' +
HashedRequestPayload
```

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses `POST` .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty st “” for POST requests, and is the string after the question mark (?) for GET requests. Fo example: Limit=10&Offset=0。 Note: `CanonicalQueryString` must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All speci characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of `host` `content-type` . Custom headers can be added to participate in the signature proce improve the uniqueness and security of the request. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase with the lead and trailing spaces removed, so they are concatenated in the format of key:value\n format; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` . Note: `content-type` must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the sever will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the heac in CanonicalHeaders). `Content-type` and `host` are required headers. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is `content-type;host`
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as `{"Limit": 1, "Filter`

	`[{"Values": ["unnamed"], "Name": "instance-name"}]` in this exampl The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the pay of the HTTP request, performing hexadecimal encoding, and finally converting the enco string to lowercase letters. For GET requests, `RequestPayload` is always an empt string. The calculation result in this example is `99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b49`

According to the rules above, the `CanonicalRequest` string obtained in the example is as follows:

```
POST
/

content-type:application/json; charset=utf-8
host:cvm.tencentcloudapi.com

content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

```
StringToSign =
Algorithm + \n +
RequestTimestamp + \n +
CredentialScope + \n +
HashedCanonicalRequest
```

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always `TC3-HMAC-SHA256`.
RequestTimestamp	Request timestamp, i.e., the value of the common parameter `X-TC-Timestamp` in request header, which is the UNIX timestamp of the current time in seconds, such as `1551113065` in this example.
CredentialScope	Scope of the credential in the format of `Date/service/tc3_request`, including date, requested service and termination string (tc3_request). **`Date` is a date in UT time, whose value should match the UTC date converted by the common parameter `X-TC-Timestamp`**; `service` is the product name, which should m the domain name of the product called. The calculation result in this example is `2019-02-25/cvm/tc3_request`.

HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequ The calculation result in this example is `2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad`

Note:

1. Date has to be calculated from the timestamp "X-TC-Timestamp" and the time zone is UTC+0. If you add the system's local time zone information (such as UTC+8), calls can succeed both day and night but will definitely fail at 00:00. For example, if the timestamp is 1551113065 and the time in UTC+8 is 2019-02-26 00:44:25, the UTC+0 date in the calculated Date value should be 2019-02-25 instead of 2019-02-26.
2. Timestamp must be the same as your current system time, and your system time and standard time must be synced; if the difference between Timestamp and your current system time is larger than five minutes, the request will fail. If your system time is out of sync with the standard time for a while, the request will fail and return a signature expiration error.

According to the preceding rules, the string to be signed obtained in the example is as follows:

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

1) Calculate the derived signature key with the following pseudocode:

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3*******"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

Field Name	Explanation
SecretKey	The original SecretKey, i.e., `Gu5t9xGARNpq86cd98joQYCN3*******` .
Date	The Date field information in `Credential` , such as `2019-02-25` in this example.
Service	Value in the Service field in `Credential` , such as `cvm` in this example.

2) Calculate the signature with the following pseudocode:

```
Signature = HexEncode(HMAC_SHA256(SecretSigning, StringToSign))
```

4. Concatenating the Authorization

The Authorization is concatenated as follows:

```
Authorization =
Algorithm + ' ' +
'Credential=' + SecretId + '/' + CredentialScope + ', ' +
'SignedHeaders=' + SignedHeaders + ', ' +
'Signature=' + Signature
```

Field Name	Explanation
Algorithm	Signature algorithm, which is always `TC3-HMAC-SHA256`.
SecretId	The SecretId in the key pair, i.e., `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`.
CredentialScope	Credential scope (see above). The calculation result in this example is `2019-02-25/cvm/tc3_request`.
SignedHeaders	Header information for signature calculation (see above), such as `content-type;host` in this example.
Signature	Signature value. The calculation result in this example is `c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff`.

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
```

```
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See SDK Center for more information. Currently, the following programming languages are supported:

- Python
- Java
- PHP
- Go
- NodeJS
- .NET

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGeI%3D&Timestamp=1465185768&Version=2017-03-12.

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.security.MessageDigest;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPITC3Demo {
private final static Charset UTF8 = StandardCharsets.UTF_8;
private final static String SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
private final static String CT_JSON = "application/json; charset=utf-8";

public static byte[] hmac256(byte[] key, String msg) throws Exception {
Mac mac = Mac.getInstance("HmacSHA256");
SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
mac.init(secretKeySpec);
return mac.doFinal(msg.getBytes(UTF8));
}

public static String sha256Hex(String s) throws Exception {
MessageDigest md = MessageDigest.getInstance("SHA-256");
byte[] d = md.digest(s.getBytes(UTF8));
return DatatypeConverter.printHexBinary(d).toLowerCase();
}

public static void main(String[] args) throws Exception {
String service = "cvm";
String host = "cvm.tencentcloudapi.com";
String region = "ap-guangzhou";
String action = "DescribeInstances";
String version = "2017-03-12";
String algorithm = "TC3-HMAC-SHA256";
String timestamp = "1551113065";
//String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
// Pay attention to the time zone; otherwise, errors may occur
sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

// ************ Step 1: Concatenate the CanonicalRequest string ************
String httpRequestMethod = "POST";
```

```
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + host + "\n";
String signedHeaders = "content-type;host";

String payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}";
String hashedRequestPayload = sha256Hex(payload);
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canoni
calQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);

// ************* Step 2: Concatenate the string to sign *************
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = sha256Hex(canonicalRequest);
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope +
"\n" + hashedCanonicalRequest;
System.out.println(stringToSign);

// ************* Step 3: Calculate the signature *************
byte[] secretDate = hmac256(("TC3" + SECRET_KEY).getBytes(UTF8), date);
byte[] secretService = hmac256(secretDate, service);
byte[] secretSigning = hmac256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(hmac256(secretSigning, string
ToSign)).toLowerCase();
System.out.println(signature);

// ************* Step 4: Concatenate the Authorization *************
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
System.out.println(authorization);

TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);
headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);

StringBuilder sb = new StringBuilder();
sb.append("curl -X POST https://").append(host)
.append(" -H \"Authorization: ").append(authorization).append("\"")
```

```
.append(" -H \"Content-Type: application/json; charset=utf-8\"")
.append(" -H \"Host: ").append(host).append("\"")
.append(" -H \"X-TC-Action: ").append(action).append("\"")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\"")
.append(" -H \"X-TC-Version: ").append(version).append("\"")
.append(" -H \"X-TC-Region: ").append(region).append("\"")
.append(" -d '").append(payload).append("'");
System.out.println(sb.toString());
}
}
```

Python

```
# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime

# Key Parameters
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Name": "instance-name", "Values": ["unnamed"
]}]}

# ************* Step 1: Concatenate the CanonicalRequest string *************
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +
canonical_querystring + "\n" +
```

```
canonical_headers + "\n" +
signed_headers + "\n" +
hashed_request_payload)
print(canonical_request)

# ************* Step 2: Concatenate the string to sign *************
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).hexd
igest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)


# ************* Step 3: Calculate the Signature *************
# Function for computing signature digest
def sign(key, msg):
return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha2
56).hexdigest()
print(signature)

# ************* Step 4: Concatenate the Authorization *************
authorization = (algorithm + " " +
"Credential=" + secret_id + "/" + credential_scope + ", " +
"SignedHeaders=" + signed_headers + ", " +
"Signature=" + signature)
print(authorization)

print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + host + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + "'")
```

Golang

```
package main

import (
"crypto/hmac"
"crypto/sha256"
"encoding/hex"
"fmt"
"time"
)

func sha256hex(s string) string {
b := sha256.Sum256([]byte(s))
return hex.EncodeToString(b[:])
}

func hmacsha256(s, key string) string {
hashed := hmac.New(sha256.New, []byte(key))
hashed.Write([]byte(s))
return string(hashed.Sum(nil))
}

func main() {
secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
host := "cvm.tencentcloudapi.com"
algorithm := "TC3-HMAC-SHA256"
service := "cvm"
version := "2017-03-12"
action := "DescribeInstances"
region := "ap-guangzhou"
//var timestamp int64 = time.Now().Unix()
var timestamp int64 = 1551113065

// step 1: build canonical request string
httpRequestMethod := "POST"
canonicalURI := "/"
canonicalQueryString := ""
canonicalHeaders := "content-type:application/json; charset=utf-8\n" + "host:" +
host + "\n"
signedHeaders := "content-type;host"
payload := `{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}`
hashedRequestPayload := sha256hex(payload)
canonicalRequest := fmt.Sprintf("%s\n%s\n%s\n%s\n%s\n%s",
httpRequestMethod,
canonicalURI,
```

```
canonicalQueryString,
canonicalHeaders,
signedHeaders,
hashedRequestPayload)
fmt.Println(canonicalRequest)

// step 2: build string to sign
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)
hashedCanonicalRequest := sha256hex(canonicalRequest)
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",
algorithm,
timestamp,
credentialScope,
hashedCanonicalRequest)
fmt.Println(string2sign)

// step 3: sign string
secretDate := hmacsha256(date, "TC3"+secretKey)
secretService := hmacsha256(service, secretDate)
secretSigning := hmacsha256("tc3_request", secretService)
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))
fmt.Println(signature)

// step 4: build authorization
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%
s",
algorithm,
secretId,
credentialScope,
signedHeaders,
signature)
fmt.Println(authorization)

curl := fmt.Sprintf(`curl -X POST https://%s\
-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"\
-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}
```

PHP

```php
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:".$hos
t."\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod."\n"
.$canonicalUri."\n"
.$canonicalQueryString."\n"
.$canonicalHeaders."\n"
.$signedHeaders."\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

// step 2: build string to sign
$date = gmdate("Y-m-d", $timestamp);
$credentialScope = $date."/".$service."/tc3_request";
$hashedCanonicalRequest = hash("SHA256", $canonicalRequest);
$stringToSign = $algorithm."\n"
.$timestamp."\n"
.$credentialScope."\n"
.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;

// step 3: sign string
$secretDate = hash_hmac("SHA256", $date, "TC3".$secretKey, true);
$secretService = hash_hmac("SHA256", $service, $secretDate, true);
$secretSigning = hash_hmac("SHA256", "tc3_request", $secretService, true);
$signature = hash_hmac("SHA256", $stringToSign, $secretSigning);
echo $signature.PHP_EOL;
```

```
// step 4: build authorization
$authorization = $algorithm
." Credential=".$secretId."/".$credentialScope
.", SignedHeaders=content-type;host, Signature=".$signature;
echo $authorization.PHP_EOL;

$curl = "curl -X POST https://".$host
.' -H "Authorization: '.$authorization.'"'
.' -H "Content-Type: application/json; charset=utf-8"'
.' -H "Host: '.$host.'"'
.' -H "X-TC-Action: '.$action.'"'
.' -H "X-TC-Timestamp: '.$timestamp.'"'
.' -H "X-TC-Version: '.$version.'"'
.' -H "X-TC-Region: '.$region.'"'
." -d '".$payload."'";
echo $curl.PHP_EOL;
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'digest'
require 'json'
require 'time'
require 'openssl'

# Key Parameters
secret_id = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*******'

service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host
region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')

# ************* Step 1: Concatenate the CanonicalRequest string *************
http_request_method = 'POST'
canonical_uri = '/'
canonical_querystring = ''
```

```
canonical_headers = "content-type:application/json; charset=utf-8\nhost:#{host}
\n"
signed_headers = 'content-type;host'
# params = { 'Limit' => 1, 'Filters' => [{ 'Name' => 'instance-name', 'Values' =>
['unnamed'] }] }
# payload = JSON.generate(params, { 'ascii_only' => true, 'space' => ' ' })
# json will generate in random order, to get specified result in example, we hard
-code it here.
payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-nam
e"}]}'
hashed_request_payload = Digest::SHA256.hexdigest(payload)
canonical_request = [
http_request_method,
canonical_uri,
canonical_querystring,
canonical_headers,
signed_headers,
hashed_request_payload,
].join("\n")

puts canonical_request

# ************* Step 2: Concatenate the string to sign *************
credential_scope = date + '/' + service + '/' + 'tc3_request'
hashed_request_payload = Digest::SHA256.hexdigest(canonical_request)
string_to_sign = [
algorithm,
timestamp.to_s,
credential_scope,
hashed_request_payload,
].join("\n")
puts string_to_sign

# ************* Step 3: Calculate the Signature *************
digest = OpenSSL::Digest.new('sha256')
secret_date = OpenSSL::HMAC.digest(digest, 'TC3' + secret_key, date)
secret_service = OpenSSL::HMAC.digest(digest, secret_date, service)
secret_signing = OpenSSL::HMAC.digest(digest, secret_service, 'tc3_request')
signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature

# ************* Step 4: Concatenate the Authorization *************
authorization = "#{algorithm} Credential=#{secret_id}/#{credential_scope}, Signed
Headers=#{signed_headers}, Signature=#{signature}"
puts authorization

puts 'curl -X POST ' + endpoint \
```

```
+ ' -H "Authorization: ' + authorization + '"' \
+ ' -H "Content-Type: application/json; charset=utf-8"' \
+ ' -H "Host: ' + host + '"' \
+ ' -H "X-TC-Action: ' + action + '"' \
+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + '"' \
+ ' -H "X-TC-Version: ' + version + '"' \
+ ' -H "X-TC-Region: ' + region + '"' \
+ " -d '" + payload + "'"
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.Text;

public class Application
{
public static string SHA256Hex(string s)
{
using (SHA256 algo = SHA256.Create())
{
byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
StringBuilder builder = new StringBuilder();
for (int i = 0; i < hashbytes.Length; ++i)
{
builder.Append(hashbytes[i].ToString("x2"));
}
return builder.ToString();
}
}
public static byte[] HmacSHA256(byte[] key, byte[] msg)
{
using (HMACSHA256 mac = new HMACSHA256(key))
{
return mac.ComputeHash(msg);
}
}

public static Dictionary<String, String> BuildHeaders(string secretid,
string secretkey, string service, string endpoint, string region,
string action, string version, DateTime date, string requestPayload)
{
string datestr = date.ToString("yyyy-MM-dd");
DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, Mi
```

```
dpointRounding.AwayFromZero) / 1000;
// ************* Step 1: Concatenate the CanonicalRequest string *************
string algorithm = "TC3-HMAC-SHA256";
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string contentType = "application/json";
string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
string signedHeaders = "content-type;host";
string hashedRequestPayload = SHA256Hex(requestPayload);
string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
Console.WriteLine(canonicalRequest);
Console.WriteLine("-----------------------------------");

// ************* Step 2: Concatenate the string to sign *************
string credentialScope = datestr + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = SHA256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + requestTimestamp.ToString() + "\n" + cre
dentialScope + "\n" + hashedCanonicalRequest;
Console.WriteLine(stringToSign);
Console.WriteLine("-----------------------------------");

// ************* Step 3: Calculate the signature *************
byte[] tc3SecretKey = Encoding.UTF8.GetBytes("TC3" + secretkey);
byte[] secretDate = HmacSHA256(tc3SecretKey, Encoding.UTF8.GetBytes(datestr));
byte[] secretService = HmacSHA256(secretDate, Encoding.UTF8.GetBytes(service));
byte[] secretSigning = HmacSHA256(secretService, Encoding.UTF8.GetBytes("tc3_requ
est"));
byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringTo
Sign));
string signature = BitConverter.ToString(signatureBytes).Replace("-", "").ToLower
();
Console.WriteLine(signature);
Console.WriteLine("-----------------------------------");

// ************* Step 4: Concatenate the Authorization *************
string authorization = algorithm + " "
+ "Credential=" + secretid + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", "
+ "Signature=" + signature;
Console.WriteLine(authorization);
```

```
Console.WriteLine("-----------------------------------");

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}
public static void Main(string[] args)
{
// SecretID and SecretKey
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";

string service = "cvm";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";

// The timestamp `2019-02-26 00:44:25` used here is only for reference. In a proj
ect, use the following parameter:
// DateTime date = DateTime.UtcNow;
// Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds
(1551113065);
string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\u672a\\u5
47d\\u540d\"], \"Name\": \"instance-name\"}]}";

Dictionary<string, string> headers = BuildHeaders(SECRET_ID, SECRET_KEY, service
, endpoint, region, action, version, date, requestPayload);

Console.WriteLine("POST https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine();
Console.WriteLine(requestPayload);
}
}
```

NodeJS

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

function sha256(message, secret = '', encoding) {
const hmac = crypto.createHmac('sha256', secret)
return hmac.update(message).digest(encoding)
}
function getHash(message, encoding = 'hex') {
const hash = crypto.createHash('sha256')
return hash.update(message).digest(encoding)
}
function getDate(timestamp) {
const date = new Date(timestamp * 1000)
const year = date.getUTCFullYear()
const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
const day = ('0' + date.getUTCDate()).slice(-2)
return `${year}-${month}-${day}`
}
function main(){

const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******"

const endpoint = "cvm.tencentcloudapi.com"
const service = "cvm"
const region = "ap-guangzhou"
const action = "DescribeInstances"
const version = "2017-03-12"
//const timestamp = getTime()
const timestamp = 1551113065
const date = getDate(timestamp)

// ************* Step 1: Concatenate the CanonicalRequest string *************
const signedHeaders = "content-type;host"

const payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}"

const hashedRequestPayload = getHash(payload);
const httpRequestMethod = "POST"
const canonicalUri = "/"
const canonicalQueryString = ""
const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + endpoint + "\n"

const canonicalRequest = httpRequestMethod + "\n"
```

```
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload
console.log(canonicalRequest)
console.log("----------------------------")

// ************* Step 2: Concatenate the string to sign *************
const algorithm = "TC3-HMAC-SHA256"
const hashedCanonicalRequest = getHash(canonicalRequest);
const credentialScope = date + "/" + service + "/" + "tc3_request"
const stringToSign = algorithm + "\n" +
timestamp + "\n" +
credentialScope + "\n" +
hashedCanonicalRequest
console.log(stringToSign)
console.log("----------------------------")

// ************* Step 3: Calculate the signature *************
const kDate = sha256(date, 'TC3' + SECRET_KEY)
const kService = sha256(service, kDate)
const kSigning = sha256('tc3_request', kService)
const signature = sha256(stringToSign, kSigning, 'hex')
console.log(signature)
console.log("----------------------------")

// ************* Step 4: Concatenate the Authorization *************
const authorization = algorithm + " " +
"Credential=" + SECRET_ID + "/" + credentialScope + ", " +
"SignedHeaders=" + signedHeaders + ", " +
"Signature=" + signature
console.log(authorization)
console.log("----------------------------")

const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + endpoint + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + timestamp.toString() + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + "'"
console.log(Call_Information)
}
main()
```

C++

```
#include <iostream>
#include <iomanip>
#include <sstream>
#include <string>
#include <stdio.h>
#include <time.h>
#include <openssl/sha.h>
#include <openssl/hmac.h>

using namespace std;

string get_data(int64_t &timestamp)
{
string utcDate;
char buff[20] = {0};
// time_t timenow;
struct tm sttime;
sttime = *gmtime(&timestamp);
strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
utcDate = string(buff);
return utcDate;
}
string int2str(int64_t n)
{
std::stringstream ss;
ss << n;
return ss.str();
}
string sha256Hex(const string &str)
{
char buf[3];
unsigned char hash[SHA256_DIGEST_LENGTH];
SHA256_CTX sha256;
SHA256_Init(&sha256);
SHA256_Update(&sha256, str.c_str(), str.size());
SHA256_Final(hash, &sha256);
std::string NewString = "";
for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
{
snprintf(buf, sizeof(buf), "%02x", hash[i]);
NewString = NewString + buf;
}
return NewString;
```

```
}
string HmacSha256(const string &key, const string &input)
{
unsigned char hash[32];

HMAC_CTX *h;
#if OPENSSL_VERSION_NUMBER < 0x10100000L
HMAC_CTX hmac;
HMAC_CTX_init(&hmac);
h = &hmac;
#else
h = HMAC_CTX_new();
#endif

HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);
HMAC_Update(h, ( unsigned char* )&input[0], input.length());
unsigned int len = 32;
HMAC_Final(h, hash, &len);

#if OPENSSL_VERSION_NUMBER < 0x10100000L
HMAC_CTX_cleanup(h);
#else
HMAC_CTX_free(h);
#endif

std::stringstream ss;
ss << std::setfill('0');
for (int i = 0; i < len; i++)
{
ss << hash[i];
}

return (ss.str());
}
string HexEncode(const string &input)
{
static const char* const lut = "0123456789abcdef";
size_t len = input.length();

string output;
output.reserve(2 * len);
for (size_t i = 0; i < len; ++i)
{
const unsigned char c = input[i];
output.push_back(lut[c >> 4]);
output.push_back(lut[c & 15]);
}
```

```
return output;
}

int main()
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";

string service = "cvm";
string host = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
int64_t timestamp = 1551113065;
string date = get_data(timestamp);

// ************* Step 1: Concatenate the CanonicalRequest string *************
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string canonicalHeaders = "content-type:application/json; charset=utf-8\nhost:" +
host + "\n";
string signedHeaders = "content-type;host";
string payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}";
string hashedRequestPayload = sha256Hex(payload);
string canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canoni
calQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
cout << canonicalRequest << endl;
cout << "-----------------------" << endl;

// ************* Step 2: Concatenate the string to sign *************
string algorithm = "TC3-HMAC-SHA256";
string RequestTimestamp = int2str(timestamp);
string credentialScope = date + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = sha256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScop
e + "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----------------------" << endl;

// ************* Step 3: Calculate the signature ***************
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");
```

```
string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "-----------------------" << endl;

// ************* Step 4: Concatenate the Authorization *************
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
cout << authorization << endl;
cout << "-----------------------" << endl;

string headers = "curl -X POST https://" + host + "\n"
+ " -H \"Authorization: " + authorization + "\n"
+ " -H \"Content-Type: application/json; charset=utf-8\"" + "\n"
+ " -H \"Host: " + host + "\n"
+ " -H \"X-TC-Action: " + action + "\n"
+ " -H \"X-TC-Timestamp: " + RequestTimestamp + "\n"
+ " -H \"X-TC-Version: " + version + "\n"
+ " -H \"X-TC-Region: " + region + "\n"
+ " -d '" + payload;
cout << headers << endl;
return 0;
};
```

Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes.
AuthFailure.SecretIdNotFound	The key does not exist. Please go to the console to check whether it is disabled or you copied fewer or more characters.
AuthFailure.SignatureFailure	Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect.
AuthFailure.TokenFailure	Temporary certificate token error.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).

Signature

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Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.
The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the TencentCloud API Key page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the TencentCloud API Key page to apply for security credentials.
Security credentials consist of SecretId and SecretKey:

- SecretId is used to identify the API requester.
- SecretKey is used to encrypt the signature string and verify it on the server.
- **You must keep your security credentials private and avoid disclosure.**

You can apply for the security credentials through the following steps:

1. Log in to the Tencent Cloud Console.
2. Go to the TencentCloud API Key page.
3. On the API Key Management page, click **Create Key** to create a SecretId/SecretKey pair.

Note: Each account can have up to two pairs of SecretId/SecretKey.

2. Generating a Signature

With the SecretId and SecretKey, a signature can be generated. The following describes how to generate a signature:

Assume that the SecretId and SecretKey are:

- SecretId: `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`
- SecretKey: `Gu5t9xGARNpq86cd98joQYCN3*******`

Note: This is just an example. For actual operations, please use your own SecretId and SecretKey.

Take the Cloud Virtual Machine's request to view the instance list (DescribeInstances) as an example. When you invoke this API, the request parameters may be as follows:

Parameter name	Description	Parameter value
Action	Method name	DescribeInstances
SecretId	Key ID	`AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Region where the instance is located	ap-guangzhou
InstanceIds.0	ID of the instance to query	ins-09dx96dg
Offset	Offset	0
Limit	Allowed maximum output	20
Version	API version number	2017-03-12

2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names. Notes: (1) Parameters are sorted by their names instead of their values; (2) The parameters are sorted based on ASCII code, not in an alphabetical order or by values. For example, InstanceIds.2 should be arranged after InstanceIds.12. You can complete the sorting process using a sorting function in a programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
'Action' : 'DescribeInstances',
'InstanceIds.0' : 'ins-09dx96dg',
'Limit' : 20,
'Nonce' : 11886,
'Offset' : 0,
'Region' : 'ap-guangzhou',
'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******',
'Timestamp' : 1465185768,
'Version': '2017-03-12',
}
```

When developing in another programming language, you can sort these sample parameters and it will work as long as you obtain the same results.

2.2. Concatenating a Request String

This step generates a request string.

Format the request parameters sorted in the previous step into the form of "parameter name"="parameter value". For example, for the Action parameter, its parameter name is "Action" and its parameter value is "DescribeInstances", so it will become Action=DescribeInstances after formatted.

Note: The "parameter value" is the original value but not the value after URL encoding.

Then, concatenate the formatted parameters with "&". The resulting request string is as follows:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Timestamp=1465
185768&Version=2017-03-12
```

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

1. HTTP method: POST and GET modes are supported, and GET is used here for the request. Please note that the method name should be in all capital letters.
2. Request server: the domain name of the request to view the list of instances (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies by the module to which the API belongs. For more information, see the instructions of the specific API.
3. Request path: The request path in the current version of TencentCloud API is fixed to /.
4. Request string: the request string generated in the previous step.

The concatenation rule of the signature original string is: Request method + request host + request path + ? + request string

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WF
kmLPx3*******&Timestamp=1465185768&Version=2017-03-12
```

2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and then

encode the generated signature using Base64 to obtain the final signature.

The specific code is as follows with the PHP language being used as an example:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*******';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

When developing in another programming language, you can sign and verify the original in the example above and it works as long as you get the same results.

3. Encoding a Signature String

The generated signature string cannot be directly used as a request parameter and must be URL encoded.

For example, if the signature string generated in the previous step is zmmjn35mikh6pM3V7sUEuX4wyYM=, the final signature string request parameter (Signature) is zmmjn35mikh6pM3V7sUEuX4wyYM%3D, which will be used to generate the final request URL.

Note: If your request method is GET, or the request method is POST and the Content-Type is application/x-www-form-urlencoded, then all the request parameter values need to be URL encoded (except the parameter key and the symbol of =) when sending the request. Non-ASCII characters need to be encoded with UTF-8 before URL encoding.

Note: The network libraries of some programming languages automatically URL encode all parameters, in which case there is no need to URL encode the signature string; otherwise, two rounds of URL encoding will cause the signature to fail.

Note: Other parameter values also need to be encoded using RFC 3986. Use %XY in percent-encoding for special characters such as Chinese characters, where "X" and "Y" are hexadecimal characters (0-9 and uppercase A-F), and using lowercase will cause an error.

4. Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error code	Error description
AuthFailure.SignatureExpire	The signature is expired
AuthFailure.SecretIdNotFound	The key does not exist
AuthFailure.SignatureFailure	Signature error
AuthFailure.TokenFailure	Token error
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type)

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See SDK Center for more information. Currently, the following programming languages are supported:

- Python
- Java
- PHP
- Go
- NodeJS
- .NET

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%3D&Timestamp=1465185768&Version=2017-03-12
```

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;
public class TencentCloudAPIDemo {
private final static String CHARSET = "UTF-8";
public static String sign(String s, String key, String method) throws Exception {
Mac mac = Mac.getInstance(method);
SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlg
orithm());
mac.init(secretKeySpec);
byte[] hash = mac.doFinal(s.getBytes(CHARSET));
return DatatypeConverter.printBase64Binary(hash);
}
public static String getStringToSign(TreeMap<String, Object> params) {
StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
// When signing, the parameters need to be sorted in lexicographical order. TreeM
ap is used here to guarantee the correct order.
for (String k : params.keySet()) {
s2s.append(k).append("=").append(params.get(k).toString()).append("&");
}
return s2s.toString().substring(0, s2s.length() - 1);
}
public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEnc
odingException {
StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
// There is no requirement for the order of the parameters in the actual request
URL.
for (String k : params.keySet()) {
// The request string needs to be URL encoded. As the Key is all in English lette
rs, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHAR
SET)).append("&");
```

```
}
return url.toString().substring(0, url.length() - 1);
}
public static void main(String[] args) throws Exception {
TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap enable
s automatic sorting
// A random number should be used when actually calling, for example: params.put
("Nonce", new Random().nextInt(java.lang.Integer.MAX_VALUE));
params.put("Nonce", 11886); // Common parameter
// The current time of the system should be used when actually calling, for examp
le: params.put("Timestamp", System.currentTimeMillis() / 1000);
params.put("Timestamp", 1465185768); // Common parameter
params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"); // Common paramet
er
params.put("Action", "DescribeInstances"); // Common parameter
params.put("Version", "2017-03-12"); // Common parameter
params.put("Region", "ap-guangzhou"); // Common parameter
params.put("Limit", 20); // Business parameter
params.put("Offset", 0); // Business parameter
params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpq86cd98joQYCN3*
******", "HmacSHA1")); // Common parameter
System.out.println(getUrl(params));
}
}
```

Python

Note: If running in a Python 2 environment, the following requests dependency package must be installed first: `pip install requests`.

```
# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time
import requests
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
def get_string_to_sign(method, endpoint, params):
s = method + endpoint + "/?"
query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
return s + query_str
def sign_str(key, s, method):
hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
return base64.b64encode(hmac_str)
```

```
if __name__ == '__main__':
endpoint = "cvm.tencentcloudapi.com"
data = {
'Action' : 'DescribeInstances',
'InstanceIds.0' : 'ins-09dx96dg',
'Limit' : 20,
'Nonce' : 11886,
'Offset' : 0,
'Region' : 'ap-guangzhou',
'SecretId' : secret_id,
'Timestamp' : 1465185768, # int(time.time())
'Version': '2017-03-12'
}
s = get_string_to_sign("GET", endpoint, data)
data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
print(data["Signature"])
# An actual invocation would occur here, which may incur fees after success
# resp = requests.get("https://" + endpoint, params=data)
# print(resp.url)
```

Golang

```
package main
import (
"bytes"
"crypto/hmac"
"crypto/sha1"
"encoding/base64"
"fmt"
"sort"
)
func main() {
secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
params := map[string]string{
"Nonce": "11886",
"Timestamp": "1465185768",
"Region": "ap-guangzhou",
"SecretId": secretId,
"Version": "2017-03-12",
"Action": "DescribeInstances",
"InstanceIds.0": "ins-09dx96dg",
"Limit": "20",
"Offset": "0",
}
var buf bytes.Buffer
```

```
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")
// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
keys = append(keys, k)
}
sort.Strings(keys)
for i := range keys {
k := keys[i]
buf.WriteString(k)
buf.WriteString("=")
buf.WriteString(params[k])
buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)
hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())
fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$param["Nonce"] = 11886;//rand();
$param["Timestamp"] = 1465185768;//time();
$param["Region"] = "ap-guangzhou";
$param["SecretId"] = $secretId;
$param["Version"] = "2017-03-12";
$param["Action"] = "DescribeInstances";
$param["InstanceIds.0"] = "ins-09dx96dg";
$param["Limit"] = 20;
$param["Offset"] = 0;
ksort($param);
$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param as $key => $value ) {
$signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);
$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
```

```
// $param["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
'Action' => 'DescribeInstances',
'InstanceIds.0' => 'ins-09dx96dg',
'Limit' => 20,
'Nonce' => 11886,
'Offset' => 0,
'Region' => 'ap-guangzhou',
'SecretId' => secret_id,
'Timestamp' => 1465185768, # Time.now.to_i
'Version' => '2017-03-12',
}
sign = method + endpoint + '/?'
params = []
data.sort.each do |item|
params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, sig
n))
puts data['Signature']
# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
```

```
# res = Net::HTTP.get_response(uri)
# puts res.body
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Net;
using System.Security.Cryptography;
using System.Text;
public class Application {
public static string Sign(string signKey, string secret)
{
string signRet = string.Empty;
using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
{
byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
signRet = Convert.ToBase64String(hash);
}
return signRet;
}
public static string MakeSignPlainText(SortedDictionary<string, string> requestPa
rams, string requestMethod, string requestHost, string requestPath)
{
string retStr = "";
retStr += requestMethod;
retStr += requestHost;
retStr += requestPath;
retStr += "?";
string v = "";
foreach (string key in requestParams.Keys)
{
v += string.Format("{0}={1}&", key, requestParams[key]);
}
retStr += v.TrimEnd('&');
return retStr;
}
public static void Main(string[] args)
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
double RequestTimestamp = 1465185768;
```

```
// long timestamp = ToTimestamp() / 1000;
// string requestTimestamp = timestamp.ToString();
Dictionary<string, string> param = new Dictionary<string, string>();
param.Add("Limit", "20");
param.Add("Offset", "0");
param.Add("InstanceIds.0", "ins-09dx96dg");
param.Add("Action", action);
param.Add("Nonce", "11886");
// param.Add("Nonce", Math.Abs(new Random().Next()).ToString());
param.Add("Timestamp", RequestTimestamp.ToString());
param.Add("Version", version);
param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();
string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}
```

NodeJS

```
const crypto = require('crypto');
function get_req_url(params, endpoint){
params['Signature'] = escape(params['Signature']);
const url_strParam = sort_params(params)
return "https://" + endpoint + "/?" + url_strParam.slice(1);
}
function formatSignString(reqMethod, endpoint, path, strParam){
```

```
let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
return strSign;
}
function sha1(secretKey, strsign){
let signMethodMap = {'HmacSHA1': "sha1"};
let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}
function sort_params(params){
let strParam = "";
let keys = Object.keys(params);
keys.sort();
for (let k in keys) {
//k = k.replace(/_/g, '.');
strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}
function main(){
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******"
const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)
let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;
strParam = sort_params(params)
const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("----------------------")
params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
```

```
console.log("------------------------")
const req_url = get_req_url(params, endpoint)
console.log(params['Signature'])
console.log("------------------------")
console.log(req_url)
}
main()
```

Responses

Last updated：2020-05-29 11:13:58

Response for Successful Requests

For example, when calling CAM API (version: 2017-03-12) to view the status of instances (DescribeInstancesStatus), if the request has succeeded, you may see the response as shown below:

```
{
"Response": {
"TotalCount": 0,
"InstanceStatusSet": [],
"RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
}
}
```

- The API will return `Response`, which contains `RequestId`, as long as it processes the request. It does not matter if the request is successful or not.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.
- Except for the fixed fields, all fields are action-specified. For the definitions of action-specified fields, see the corresponding API documentation. In this example, `TotalCount` and `InstanceStatusSet` are the fields specified by the API `DescribeInstancesStatus`. 0 `TotalCount` means that the requester owns 0 CVM instance so the `InstanceStatusSet` is empty.

Response for Failed Requests

If the request has failed, you may see the response as shown below:

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please ensure your s
ignature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error`, `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

Common Error Codes

If there is an Error field in the response, it means that the API call failed. The Code field in Error indicates the error code. The following table lists the common error codes that all actions can return.

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	The key does not exist.
AuthFailure.SignatureExpire	Signature expired.
AuthFailure.SignatureFailure	Signature error.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request does not have CAM authorization.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	Quota limit exceeded.

Error Code	Description
MissingParameter	A parameter is missing.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTPS request method error. Only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Configuration Management APIs
UpdateDomainConfig

Last updated：2022-02-25 18:33:55

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to update the configuration information of an ECDN acceleration domain name.
Note: if you need to update complex configuration items, you must pass all the attributes of the entire object. The default value will be used for attributes that are not passed. We recommend calling the querying API to obtain the configuration attributes first. You can then modify and pass the attributes to the API. The certificate and key fields do not need to be passed for HTTPS configuration.

> Note：
> If your application has been migrated to Tencent Cloud CDN, you can use CDN APIs.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: UpdateDomainConfig.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.
Domain	Yes	String	Domain name.
Origin	No	Origin	Origin server configuration.
ProjectId	No	Integer	Project ID.
IpFilter	No	IpFilter	IP blocklist/allowlist configuration.
IpFreqLimit	No	IpFreqLimit	IP access limit configuration.
ResponseHeader	No	ResponseHeader	Origin server response header configuration.
CacheKey	No	CacheKey	Node caching configuration.
Cache	No	Cache	Caching rule configuration.
Https	No	Https	HTTPS configuration.
ForceRedirect	No	ForceRedirect	Forced access protocol redirection configuration.
Area	No	String	Domain name acceleration region. Valid values: mainland (acceleration in Mainland China), overseas (acceleration outside Mainland China), global (global acceleration).
WebSocket	No	WebSocket	WebSocket configuration.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Updating domain name configurations

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=UpdateDomainConfig
&ProjectId=0
&Domain=www.test.com
&
```

Output Example

```
{
"Response": {
"RequestId": "23cd4005-496f-4bc4-87d8-ab348d5b0c17"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInvalidParamArea	Invalid `Area` parameter. Please see the sample parameters in the documentation.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
LimitExceeded.EcdnDomainOpTooOften	Domain name operations are too frequent.
ResourceInUse.EcdnOpInProgress	The ECDN resource is being manipulated.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnProjectNotExists	The project does not exist.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
ResourceUnavailable.EcdnDomainIsLocked	The domain name has been locked. Please submit a ticket.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnProjectUnauthorized	The project is not authorized for the sub-account.

Error Code	Description
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.
UnauthorizedOperation.EcdnUserNoWhitelist	You are not on the beta allowlist and thus have no permission to use this feature.

DescribeDomains

Last updated：2022-02-23 10:16:38

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to query the basic information of a CDN domain name, including the project ID, status, business type, creation time, update time, etc.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeDomains.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this

			API.
Offset	No	Integer	Pagination offset address. Default value: 0.
Limit	No	Integer	Number of domain names per page. Default value: 100. Maximum value: 1000.
Filters.N	No	Array of DomainFilter	Query filter.

3. Output Parameters

Parameter Name	Type	Description
Domains	Array of DomainBriefInfo	Domain name information list.
TotalCount	Integer	Total number of domain names.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the basic information of domain names

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DescribeDomains
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "104fcdb5-293c-4f6f-b63d-0c9e430264e3",
"Domains": [
{
"AppId": 1251000000,
"Area": "mainland",
"Cname": "test.com.dsa.dnsv1.com",
```

```
"CreateTime": "2019-12-03 15:23:50",
"Disable": "normal",
"Domain": "test.com",
"Tag": [],
"Origin": {
"Origins": [
"1.1.1.1"
],
"OriginType": "ip",
"ServerName": null,
"OriginPullProtocol": "http",
"BackupOrigins": [],
"BackupOriginType": null
},
"ProjectId": 0,
"Readonly": "normal",
"ResourceId": "ecdn-xxxx",
"Status": "processing",
"UpdateTime": "2019-12-03 15:23:50"
}
],
"TotalCount": 10
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
LimitExceeded.EcdnDomainOpTooOften	Domain name operations are too frequent.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.

DescribeDomainsConfig

Last updated：2022-02-23 10:16:38

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to query the detailed configuration information of a CDN acceleration domain name.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeDomainsConfig.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.

Offset	No	Integer	Pagination offset address. Default value: 0.
Limit	No	Integer	Number of domain names per page. Default value: 100.
Filters.N	No	Array of DomainFilter	Query filter.
Sort	No	Sort	Query result sorting rule.

3. Output Parameters

Parameter Name	Type	Description
Domains	Array of DomainDetailInfo	Domain name list.
TotalCount	Integer	Number of matched domain names. This is used for paginated query.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying domain name configuration

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DescribeDomainsConfig
&<Common request parameters>
```

Output Example


```
{
"Response": {
"RequestId": "932fe708-0ce1-46ec-b403-bcd8bdb08fdd",
"Domains": [
{
"AppId": 1251000000,
"Area": "mainland",
"Cache": {
"CacheRules": [
```



```
{
"CacheType": "all",
"CacheContents": [
"*"
],
"CacheTime": 0
},
{
"CacheType": "file",
"CacheContents": [
"gif",
"png",
"bmp",
"jpg",
"jpeg",
"mp3",
"wma",
"flv",
"mp4",
"wmv",
"avi",
"m3u8",
"ts"
],
"CacheTime": 86400
},
{
"CacheType": "file",
"CacheContents": [
"doc",
"docx",
"xls",
"xlsx",
"ppt",
"pptx",
"txt",
"pdf"
],
"CacheTime": 86400
},
{
"CacheType": "file",
"CacheContents": [
"exe",
"apk",
"ipa",
"rar",
```

```
"zip",
"7z",
"css",
"js",
"xml",
"ini",
"swf",
"ico"
],
"CacheTime": 86400
}
]
},
"CacheKey": {
"FullUrlCache": "on"
},
"Cname": "test.com.com.dsa.dnsv1.com",
"CreateTime": "2019-12-03 15:23:50",
"Disable": "normal",
"Domain": "test.com",
"ForceRedirect": null,
"Https": {
"Switch": "off",
"Http2": "off",
"Spdy": "off",
"OcspStapling": "off",
"VerifyClient": "off",
"CertInfo": null,
"ClientCertInfo": null,
"SslStatus": "closed"
},
"IpFilter": {
"Switch": "off",
"FilterType": "blacklist",
"Filters": []
},
"IpFreqLimit": {
"Switch": "off",
"Qps": null
},
"Origin": {
"Origins": [
"1.1.1.1"
],
"OriginType": "ip",
"ServerName": null,
"OriginPullProtocol": "http",
```

```
"BackupOrigins": [],
"BackupOriginType": null
},
"ProjectId": 0,
"Readonly": "normal",
"ResourceId": "ecdn-xxxxxx",
"ResponseHeader": {
"HeaderRules": [],
"Switch": "off"
},
"Status": "processing",
"UpdateTime": "2019-12-03 15:23:50",
"Tag": [],
"WebSocket": null
}
],
"TotalCount": 10
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnCertNoCertInfo	Unable to resolve the certificate information.
InvalidParameter.EcdnConfigInvalidCache	The cache configuration is invalid.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
LimitExceeded.EcdnDomainOpTooOften	Domain name operations are too frequent.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.

Log Query APIs
DescribeEcdnDomainLogs

Last updated：2022-02-23 10:16:35

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to query the access log download link of a domain name.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeEcdnDomainLogs.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.
Domain	Yes	String	Domain name to be queried.
StartTime	Yes	Timestamp	Log start time, such as 2019-10-01 00:00:00
EndTime	Yes	Timestamp	Log end time, such as 2019-10-02 00:00:00. Only logs for the last

			30 days can be queried.
Offset	No	Integer	Pagination offset for log link list. Default value: 0.
Limit	No	Integer	Number of log links per page. Default value: 100. Maximum value: 1000.

3. Output Parameters

Parameter Name	Type	Description
DomainLogs	Array of DomainLogs	Log link list. Note: this field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of log links.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the log download link of a domain name

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DescribeEcdnDomainLogs
&StartTime=2019-09-04 00:00:00
&EndTime=2019-09-04 12:00:00
&Domain=www.test.com
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "13d41d37-546f-42ed-a3b9-ff82a51ecd0a",
"DomainLogs": [
{
"StartTime": "2019-09-04 23:00:00",
"EndTime": "2019-09-04 23:59:59",
```

```
"LogPath": "http://www.test.qcloud.com/20190904/23/201909042300-www.test.com.gz?st=hGzJr0QFpo3jYM2uj7kkjA&e=3135214538"
}
],
"TotalCount": 300
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in

	the documentation.
InvalidParameter.EcdnStatInvalidDate	Invalid date. Please see the sample date in the documentation.
LimitExceeded.EcdnDomainOpTooOften	Domain name operations are too frequent.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnHostNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnAccountUnauthorized	The sub-account is unauthorized to query full data.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnHostUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnNoDomainUnauthorized	The sub-account does not have the permission to access the domain name. Please try again after authorization.

Data Query APIs
DescribeEcdnStatistics

Last updated：2022-02-23 10:16:36

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to query ECDN real-time access monitoring data and supports the following metrics:

- Traffic (in bytes)
- Bandwidth (in bps)
- Number of requests
- Number of 2xx status codes and details of status codes starting with 2
- Number of 3xx status codes and details of status codes starting with 3
- Number of 4xx status codes and details of status codes starting with 4
- Number of 5xx status codes and details of status codes starting with 5

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeEcdnStatistics.

Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.
StartTime	Yes	Timestamp	Query start time, such as 2019-12-13 00:00:00
EndTime	Yes	Timestamp	Query end time, such as 2019-12-13 23:59:59
Metrics.N	Yes	Array of String	Specifies the query metric, which can be: flux: traffic (in bytes) bandwidth: bandwidth (in bps) request: number of requests 2xx: returns the number of 2xx status codes or details of status codes starting with 2 3xx: returns the number of 3xx status codes or details of status codes starting with 3 4xx: returns the number of 4xx status codes or details of status codes starting with 4 5xx: returns the number of 5xx status codes or details of status codes starting with 5
Interval	Yes	Integer	Sampling interval in minutes. The available options vary for different query period. See below: 1 day: `1` , `5` , `15` , `30` , `60` , `120` , `240` , `1440` 2 to 3 days: `15` , `30` , `60` , `120` , `240` , `1440` 4 to 7 days: `30` , `60` , `120` , `240` , `1440` 8 to 31 days: `60` , `120` , `240` , `1440`
Domains.N	No	Array of String	Specifies the list of domain names to be queried Up to 30 acceleration domain names can be queried at a time.
Projects.N	No	Array of Integer	Specifies the project ID to be queried, which can be viewed here If no domain name is entered, the specified project will be queried; otherwise, the domain name will prevail
Area	No	String	Statistical areas: mainland: Chinese mainland oversea: outside the Chinese mainland global: global Default value: global

3. Output Parameters

Parameter Name	Type	Description
Data	Array of ResourceData	Returned data details of the specified conditional query
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying access data

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DescribeEcdnStatistics
&StartTime=2018-09-04 00:00:00
&EndTime=2018-09-04 12:00:00
&Metrics.0=flux
&Interval=60
&Domains.0=www.test.com
&Projects.0=0
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "13d41d37-546f-42ed-a3b9-ff82a51ecd0a",
"Data": [
{
"Resource": "all",
"EcdnData": {
"Metrics": [
"flux",
"request"
],
"DetailData": [
{
"Time": "2019-12-13 00:00:00",
"Value": [
10,
20
]
```

```
},
{
"Time": "2019-12-13 00:05:00",
"Value": [
20,
30
]
}
]
}
}
]
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description

InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InternalError.ProxyServer	Backend service error. Please try again later.
InvalidParameter.EcdnInvalidParamInterval	Invalid statistical granularity. Please see the sample statistical analysis in the documentation.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
InvalidParameter.EcdnStatInvalidDate	Invalid date. Please see the sample date in the documentation.
InvalidParameter.EcdnStatInvalidMetric	Invalid statistical type. Please see the sample statistical analysis in the documentation.
InvalidParameter.ParamError	Parameter error
LimitExceeded.EcdnDomainOpTooOften	Domain name operations are too frequent.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnHostNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnProjectNotExists	The project does not exist.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.CdnAccountUnauthorized	The sub-account is unauthorized to query full data.
UnauthorizedOperation.CdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.CdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.CdnHostUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.CdnNoDomainUnauthorized	The sub-account does not have the permission to

	access the domain name. Please try again after authorization.
UnauthorizedOperation.CdnProjectUnauthorized	The project is not authorized for the sub-account.
UnauthorizedOperation.DomainNoPermission	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.DomainsNoPermission	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnAccountUnauthorized	The sub-account is unauthorized to query full data.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnHostUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnNoDomainUnauthorized	The sub-account does not have the permission to access the domain name. Please try again after authorization.
UnauthorizedOperation.EcdnProjectUnauthorized	The project is not authorized for the sub-account.
UnauthorizedOperation.NoPermission	CAM is not authorized for the ECDN sub-account.
UnauthorizedOperation.ProjectNoPermission	The project is not authorized for the ECDN sub-account.
UnauthorizedOperation.ProjectsNoPermission	The project is not authorized for the ECDN sub-account.
UnauthorizedOperation.Unknown	Unknown error. Please try again later.

DescribeEcdnDomainStatistics

Last updated：2022-02-23 10:16:37

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to query the statistical metrics of domain name access within a specified time period.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeEcdnDomainStatistics.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.
StartTime	Yes	Timestamp	Query start time, such as 2019-12-13 00:00:00. The time span cannot exceed 90 days.
EndTime	Yes	Timestamp	Query end time, such as 2019-12-13 23:59:59. The time span cannot exceed 90 days.
Metrics.N	Yes	Array of	Statistical metric names:

		String	flux: traffic (in bytes) bandwidth: bandwidth (in bps) request: number of requests
Domains.N	No	Array of String	Specifies the list of domain names to be queried
Projects.N	No	Array of Integer	Specifies the project ID to be queried, which can be viewed here If no domain name is entered, the specified project will be queried; otherwise, the domain name will prevail
Offset	No	Integer	Pagination offset. Default value: 0.
Limit	No	Integer	Number of entries per page. Default value: 1000. Maximum value: 3,000.
Area	No	String	Statistical areas: mainland: Chinese mainland oversea: outside the Chinese mainland global: global Default value: global

3. Output Parameters

Parameter Name	Type	Description
Data	Array of DomainData	Domain name data
TotalCount	Integer	Quantity
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying domain name statistical metrics

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DescribeEcdnDomainStatistics
&StartTime=2018-09-04 00:00:00
```

```
&EndTime=2018-09-04 12:00:00
&Metrics.0=flux
&Metrics.1=delay
&Metrics.2=request
&Metrics.3=bandwidth
&Domains.0=www.test.com
&Projects.0=0
&<Common request parameters>
```

Output Example


```
{
"Response": {
"RequestId": "13d41d37-546f-42ed-a3b9-ff82a51ecd0a",
"Data": [
{
"Resource": "stsdk.vivo.com.cn",
"DetailData": [
{
"Name": "request",
"Value": 5628872958
},
{
"Name": "flux",
"Value": 3535122082980
},
{
"Name": "delay",
"Value": 87
},
{
"Name": "bandwidth",
"Value": 825782981
}
]
}
],
"TotalCount": 20
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
InvalidParameter.EcdnStatInvalidDate	Invalid date. Please see the sample date in the documentation.
InvalidParameter.EcdnStatInvalidMetric	Invalid statistical type. Please see the sample statistical analysis in the documentation.
InvalidParameter.ParamError	Parameter error
LimitExceeded.EcdnDomainOpTooOften	Domain name operations are too frequent.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account.

	Please check and try again.
ResourceNotFound.EcdnProjectNotExists	The project does not exist.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.CdnAccountUnauthorized	The sub-account is unauthorized to query full data.
UnauthorizedOperation.CdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.CdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.CdnHostUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.CdnNoDomainUnauthorized	The sub-account does not have the permission to access the domain name. Please try again after authorization.
UnauthorizedOperation.CdnProjectUnauthorized	The project is not authorized for the sub-account.
UnauthorizedOperation.DomainNoPermission	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.DomainsNoPermission	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnAccountUnauthorized	The sub-account is unauthorized to query full data.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnHostUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnNoDomainUnauthorized	The sub-account does not have the permission to access the domain name. Please try again after authorization.
UnauthorizedOperation.EcdnProjectUnauthorized	The project is not authorized for the sub-account.
UnauthorizedOperation.NoPermission	CAM is not authorized for the ECDN sub-account.
UnauthorizedOperation.ProjectNoPermission	The project is not authorized for the ECDN sub-account.

UnauthorizedOperation.ProjectsNoPermission	The project is not authorized for the ECDN sub-account.

Domain Name Management APIs
StopEcdnDomain

Last updated：2022-02-23 10:16:35

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to disable an acceleration domain name. The domain name to be disabled must be in enabled or deploying status.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: StopEcdnDomain.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.

Region	No	String	Common parameter. This parameter is not required for this API.
Domain	Yes	String	Domain name to be disabled.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deactivating an acceleration domain name

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=StopEcdnDomain
&Domain=www.test.com
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "13d41d37-546f-42ed-a3b9-ff82a51ecd0a"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- Tencent Cloud SDK 3.0 for Java

- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
ResourceInUse.EcdnOpInProgress	The ECDN resource is being manipulated.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
ResourceUnavailable.EcdnDomainIsNotOnline	The domain name has been deactivated. Please check and try again.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.

UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.

StartEcdnDomain

Last updated：2022-02-23 10:16:36

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to enable an acceleration domain name. The domain name to be enabled must be in deactivated status.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: StartEcdnDomain.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.

Domain	Yes	String	Domain name to be enabled.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Activating an acceleration domain name

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=StartEcdnDomain
&Domain=www.test.com
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "13d41d37-546f-42ed-a3b9-ff82a51ecd0a"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
ResourceInUse.EcdnOpInProgress	The ECDN resource is being manipulated.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
ResourceUnavailable.EcdnDomainIsLocked	The domain name has been locked. Please submit a ticket.
ResourceUnavailable.EcdnDomainIsNotOffline	Failed to deactivate the domain name. Please check and try again.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.

UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.

DeleteEcdnDomain

Last updated：2022-02-23 10:16:36

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to delete a specified acceleration domain name. The acceleration domain name to be deleted must be in disabled status.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DeleteEcdnDomain.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.

Domain	Yes	String	Domain name to be deleted.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting an acceleration domain name

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DeleteEcdnDomain
&Domain=www.test.com
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "123"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP

- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
ResourceInUse.EcdnOpInProgress	The ECDN resource is being manipulated.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
ResourceUnavailable.EcdnDomainIsLocked	The domain name has been locked. Please submit a ticket.
ResourceUnavailable.EcdnDomainIsNotOffline	Failed to deactivate the domain name. Please check and try again.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.

UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.

AddEcdnDomain

Last updated：2022-02-23 10:16:36

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to create an acceleration domain name.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: AddEcdnDomain.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.
Domain	Yes	String	Domain name.

Origin	Yes	Origin	Origin server configuration.
Area	Yes	String	Domain name acceleration region. Valid values: mainland (acceleration in Mainland China), overseas (acceleration outside Mainland China), global (global acceleration).
ProjectId	No	Integer	Project ID. Default value: 0.
IpFilter	No	IpFilter	IP block/allowlist configuration.
IpFreqLimit	No	IpFreqLimit	IP access limit configuration.
ResponseHeader	No	ResponseHeader	Origin server response header configuration.
CacheKey	No	CacheKey	Node caching configuration.
Cache	No	Cache	Caching rule configuration.
Https	No	Https	HTTPS configuration.
ForceRedirect	No	ForceRedirect	Forced access protocol redirection configuration.
Tag.N	No	Array of Tag	Tag bound to a domain name.
WebSocket	No	WebSocket	WebSocket configuration.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding an acceleration domain name

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=AddEcdnDomain
&Domain=www.test.com
```

```
&Origin.Origins.0=2.2.2.2
&Area=global
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "23cd4005-496f-4bc4-87d8-ab348d5b0c17"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for

	assistance.
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnCamTagKeyNotExist	The tag key does not exist.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
InvalidParameter.EcdnResourceManyTagKey	This domain name binds too many tag keys.
InvalidParameter.EcdnTagKeyInvalid	Invalid tag key.
InvalidParameter.EcdnTagKeyNotExist	The tag key does not exist.
InvalidParameter.EcdnTagKeyTooManyValue	The tag key has too many values.
InvalidParameter.EcdnTagValueInvalid	Invalid tag value.
InvalidParameter.EcdnUserTooManyTagKey	This user has too many tag keys.
LimitExceeded.EcdnDomainOpTooOften	Domain name operations are too frequent.
LimitExceeded.EcdnUserTooManyDomains	The number of connected domain names reached the upper limit.
ResourceInUse.EcdnDomainExists	This domain name already exists.
ResourceInUse.EcdnOpInProgress	The ECDN resource is being manipulated.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainRecordNotVerified	The domain name resolution is not verified.

UnauthorizedOperation.EcdnHostIsOwnedByOther	This domain name belongs to another account. You are not allowed o connect it to ECDN.
UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.
UnauthorizedOperation.EcdnUserNoWhitelist	You are not on the beta allowlist and thus have no permission to use this feature.

Content Management APIs
PurgeUrlsCache

Last updated：2022-02-23 10:16:37

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to batch purge URLs. One purge task ID will be returned for each submission.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: PurgeUrlsCache.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.

Region	No	String	Common parameter. This parameter is not required for this API.
Urls.N	Yes	Array of String	List of URLs to be purged. The protocol header must be included.

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Purge task ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Purging URLs

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=PurgeUrlsCache
&Urls.0=http://www.test.com/1.jpg
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4d5a83f8-a61f-445b-8036-5636be640bef",
"TaskId": "1533045796-i60rfmzm"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnDomainInvalidStatus	Invalid domain name status.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
InvalidParameter.EcdnPurgeWildcardNotAllowed	Wildcard domain names are not supported for purging.
InvalidParameter.EcdnUrlExceedLength	The URL length exceeds the limit.

LimitExceeded.EcdnPurgeUrlExceedBatchLimit	The number of URLs to be purged exceeded the limit on one request.
LimitExceeded.EcdnPurgeUrlExceedDayLimit	The number of URLs to be purged exceeded the daily quota.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.

PurgePathCache

Last updated：2022-02-23 10:16:37

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to purge cache directories in batches. One purge task ID will be returned for each submission.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: PurgePathCache.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.
Paths.N	Yes	Array of String	List of directories to be purged. The protocol header must be included.

FlushType	Yes	String	Purge type. flush: purges updated resources, delete: purges all resources.

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Purge task ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Purging URL directories

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=PurgePathCache
&Paths.0=http://www.test.com/test/
&FlushType=flush
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4d5a83f8-a61f-445b-8036-5636be640bef",
"TaskId": "1533045796-i60rfmzm"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnDomainInvalidStatus	Invalid domain name status.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
InvalidParameter.EcdnPurgeWildcardNotAllowed	Wildcard domain names are not supported for purging.
InvalidParameter.EcdnUrlExceedLength	The URL length exceeds the limit.
LimitExceeded.EcdnPurgePathExceedBatchLimit	The number of directories to be purged exceeded the limit on one request.

LimitExceeded.EcdnPurgePathExceedDayLimit	The number of directories to be purged exceeded the daily limit.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.

DescribePurgeTasks

Last updated：2022-02-23 10:16:37

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to query the submission record and progress of purge tasks.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribePurgeTasks.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.
PurgeType	No	String	Purge type to be queried. url: query URL purge records; path: query directory purge records.

StartTime	No	Timestamp	Start time, such as 2018-08-08 00:00:00
EndTime	No	Timestamp	End time, such as 2018-08-08 23:59:59
TaskId	No	String	Task ID returned during submission. Either `TaskId` or start time must be specified for a query.
Offset	No	Integer	Pagination offset. Default value: 0 (starting from entry 0).
Limit	No	Integer	Pagination limit. Default value: 20.
Keyword	No	String	Query keyword. Please enter a domain name or full URL beginning with `http(s)://` .
Status	No	String	Specified task status to be queried. fail: failed, done: succeeded, process: purging.

3. Output Parameters

Parameter Name	Type	Description
PurgeLogs	Array of PurgeTask	Purge history.
TotalCount	Integer	Total number of tasks, which is used for pagination.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the purge history

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DescribePurgeTasks
&PurgeType=ur
&TaskId=1234567
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4d5a83f8-a61f-445b-8036-5636be640bef",
"PurgeLogs": [
{
"TaskId": "153303185323131331",
"Url": "http://www.test.com/",
"Status": "Done",
"PurgeType": "url",
"FlushType": "flush",
"CreateTime": "2018-07-30 18:10:53"
}
],
"TotalCount": 20
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.

DescribePurgeQuota

Last updated：2022-02-23 10:16:38

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to query the usage quota of the purge API.

Note：

If you have migrated your ECDN service to CDN, you can use the corresponding CDN API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribePurgeQuota.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
UrlPurge	Quota	URL purge usage and quota.
PathPurge	Quota	Directory purge usage and quota.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 DescribePurgeQuota

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DescribePurgeQuota
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6f5a231e-f629-42fa-a9f0-5a9ebc127c04",
"UrlPurge": {
"Batch": 1000,
"Total": 10000,
"Available": 10000
},
"PathPurge": {
"Batch": 20,
"Total": 100,
"Available": 100
}
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart

	it and try again.

Service Query APIs
DescribeIpStatus

Last updated：2022-02-23 10:17:20

1. API Description

Domain name for API request: ecdn.tencentcloudapi.com.

This API is used to query ECDN node IPs. This API is only available to beta users. Please submit a ticket to use it.

If you need to add the node IPs to your origin allowlist, keep querying the updating the IPs regularly to ensure the success of origin forwarding.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeIpStatus.
Version	Yes	String	Common parameter. The value used for this API: 2019-10-12.
Region	No	String	Common parameter. This parameter is not required for this API.
Domain	Yes	String	Acceleration domain name

Parameter Name	Required	Type	Description
Area	No	String	Target region of the query: mainland: nodes in Mainland China overseas: nodes outside Mainland China global: global nodes

3. Output Parameters

Parameter Name	Type	Description
Ips	Array of IpStatus	Node list
TotalCount	Integer	Total number of nodes
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying node information of domain name

Input Example

```
https://ecdn.tencentcloudapi.com/?Action=DescribeIpStatus
&Domain=www.test.com
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "b6e9964d-26a3-49d0-adab-993e17d2f950",
"Ips": [
{
"Ip": "1.1.1.1",
"District": "Guangdong",
"Isp": "China Telecom",
```

```
"City": "Shenzhen",
"Status": "online",
"CreateTime": "2019-10-12 00:00:00"
}
],
"TotalCount": 0
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.

Error Code	Description
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnHostNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnHostUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnUserNoWhitelist	You are not on the beta allowlist and thus have no permission to use this feature.

Data Types

Last updated：2022-02-23 10:16:39

AdvanceHttps

Custom HTTPS configuration for origin-pull

Used by actions: AddEcdnDomain, DescribeDomains, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
CustomTlsStatus	String	No	Custom TLS data switch Note: This field may return `null`, indicating that no valid values can be obtained.
TlsVersion	Array of String	No	TLS version settings. Valid values: `TLSv1`, `TLSV1.1`, `TLSV1.2`, and `TLSv1.3`. Only consecutive versions can be enabled at the same time. Note: This field may return `null`, indicating that no valid values can be obtained.
Cipher	String	No	Custom encryption suite Note: This field may return `null`, indicating that no valid values can be obtained.
VerifyOriginType	String	No	Origin-pull verification status `off`: Disables origin-pull verification `oneWay`: Only verify the origin `twoWay`: Enables two-way origin-pull verification Note: This field may return `null`, indicating that no valid values can be obtained.
CertInfo	ServerCert	No	Configuration information of the origin-pull certificate Note: This field may return `null`, indicating that no valid values can be obtained.
OriginCertInfo	ClientCert	No	Configuration information of the origin server certificate Note: This field may return `null`, indicating that no valid values can be obtained.

Cache

Simple edition of cache configuration, which does not support setting a caching rule for scenarios where the `max-age` is not returned from the origin server.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
CacheRules	Array of CacheRule	Yes	Caching configuration rule array.
FollowOrigin	String	No	Whether to follow the `Cache-Control: max-age` configuration on the origin server (this feature is only available to users on the allowlist). on: enable off: disable If it is enabled, resources that do not match `CacheRules` will be cached on node according to the `max-age` value returned by the origin server, while resources that match `CacheRules` will be cached on node according to the cache expiration time set in `CacheRules` . Note: this field may return null, indicating that no valid values can be obtained.

CacheKey

Caching configuration.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
FullUrlCache	String	No	Whether to enable full path cache. Valid values: on, off.

CacheRule

Caching configuration rule.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
CacheType	String	Yes	Cache type. Valid values: all (all files), file (extension type),

			directory (directory), path (full path), index (homepage).
CacheContents	Array of String	Yes	Cached content list.
CacheTime	Integer	Yes	Cache time in seconds.

ClientCert

HTTPS client certificate configuration.

Used by actions: AddEcdnDomain, DescribeDomains, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Certificate	String	Yes	Client certificate in PEM format. Note: this field may return null, indicating that no valid values can be obtained.
CertName	String	No	Client certificate name. Note: this field may return null, indicating that no valid values can be obtained.
ExpireTime	Timestamp	No	Certificate expiration time. Note: this field may return null, indicating that no valid values can be obtained.
DeployTime	Timestamp	No	Certificate issuance time. Note: this field may return null, indicating that no valid values can be obtained.

DetailData

Data structure of sorted data

Used by actions: DescribeEcdnDomainStatistics.

Name	Type	Description
Name	String	Data type name
Value	Float	Data value

DomainBriefInfo

Basic information of a CDN domain name.

Used by actions: DescribeDomains.

Name	Type	Description
ResourceId	String	Domain name ID.
AppId	Integer	Tencent Cloud account ID.
Domain	String	CDN acceleration domain name.
Cname	String	Domain name CNAME.
Status	String	Domain name status. Valid values: pending (reviewing), rejected (rejected), processing (deploying after approval), online (enabled), offline (disabled), deleted (deleted).
ProjectId	Integer	Project ID.
CreateTime	Timestamp	Domain name creation time.
UpdateTime	Timestamp	Domain name update time.
Origin	Origin	Origin server configuration details.
Disable	String	Domain name blockage status. Valid values: normal (normal), overdue (service is suspended due to arrears), quota (trial traffic package is used up), malicious (malicious user), ddos (DDoS attack), idle (no traffic), unlicensed (no ICP filing), capping (bandwidth cap reached), readonly (read-only)
Area	String	Acceleration region. Valid values: mainland, oversea, global.
Readonly	String	Domain name lock status. normal: not locked; global: globally locked
Tag	Array of Tag	Domain name tag Note: This field may return `null`, indicating that no valid value can be found.

DomainData

Data structure of sorted data

Used by actions: DescribeEcdnDomainStatistics.

Name	Type	Description
Resource	String	Domain name
DetailData	Array of DetailData	Result details.

DomainDetailInfo

Detailed configuration information of ECDN domain name.

Used by actions: DescribeDomainsConfig.

Name	Type	Description
ResourceId	String	Domain name ID.
AppId	Integer	Tencent Cloud account ID.
Domain	String	Acceleration domain name.
Cname	String	Domain name CNAME. Note: this field may return null, indicating that no valid values can be obtained.
Status	String	Domain name status. Valid values: pending (reviewing), rejected (rejected), processing (deploying after approval), online (enabled), offline (disabled), deleted (deleted).
ProjectId	Integer	Project ID.
CreateTime	Timestamp	Domain name creation time.
UpdateTime	Timestamp	Domain name update time.
Origin	Origin	Origin server configuration.
IpFilter	IpFilter	IP blocklist/allowlist configuration. Note: this field may return null, indicating that no valid values can be obtained.
IpFreqLimit	IpFreqLimit	IP access limit configuration. Note: this field may return null, indicating that no valid values can be obtained.
ResponseHeader	ResponseHeader	Origin server response header configuration. Note: this field may return null, indicating that no valid values can be

		obtained.
CacheKey	CacheKey	Node caching configuration. Note: this field may return null, indicating that no valid values can be obtained.
Cache	Cache	Caching rule configuration. Note: this field may return null, indicating that no valid values can be obtained.
Https	Https	HTTPS configuration. Note: this field may return null, indicating that no valid values can be obtained.
Disable	String	Domain name blockage status. Valid values: normal (normal), overdue (service is suspended due to arrears), quota (trial traffic package is used up), malicious (malicious user), ddos (DDoS attack), idle (no traffic), unlicensed (no ICP filing), capping (bandwidth cap reached), readonly (read-only). Note: this field may return null, indicating that no valid values can be obtained.
ForceRedirect	ForceRedirect	Forced access protocol redirection configuration. Note: this field may return null, indicating that no valid values can be obtained.
Area	String	Acceleration region. Valid values: mainland, overseas, global. Note: this field may return null, indicating that no valid values can be obtained.
Readonly	String	Domain name lock status. normal: not locked; global: globally locked. Note: this field may return null, indicating that no valid values can be obtained.
Tag	Array of Tag	Domain name tag Note: This field may return `null`, indicating that no valid value can be obtained.
WebSocket	WebSocket	WebSocket configuration. Note: This field may return `null`, indicating that no valid values can be obtained.

DomainFilter

Filter for domain name query.

Used by actions: DescribeDomains, DescribeDomainsConfig.

Name	Type	Required	Description
Name	String	Yes	Filters by the field name, which includes: - `origin` : Primary origin server. - `domain` : Domain name. - `resourceId` : Domain name ID. - `status` : Domain name status. Valid values: `online` , `offline` , and `processing` . - `disable` : Whether the domain name is blocked. Valid values: `normal` , `unlicensed` . - `projectId` : Project ID. - `fullUrlCache` : Whether to enable full-path cache, which can be `on` or `off` . - `https` : Whether to configure HTTPS, which can be `on` , `off` or `processing` . - `originPullProtocol` : Origin-pull protocol type, which can be `http` , `follow` , or `https` . - `area` : Acceleration region, which can be `mainland` , `overseas` or `global` . - `tagKey` : Tag key.
Value	Array of String	Yes	Filter field value.
Fuzzy	Boolean	No	Whether to enable fuzzy query, which is supported only for filter fields `origin` and `domain` .

DomainLogs

Domain name log information.

Used by actions: DescribeEcdnDomainLogs.

Name	Type	Description
StartTime	Timestamp	Log start time.
EndTime	Timestamp	Log end time.
LogPath	String	Log download path.

EcdnData

Detailed access data type

Used by actions: DescribeEcdnStatistics.

Name	Type	Description
Metrics	Array of String	Queries the specified metric. Valid values: Bandwidth, Flux, Request, Delay, status code, LogBandwidth, LogFlux, LogRequest
DetailData	Array of TimestampData	Detailed data collection

ForceRedirect

Forced access protocol redirection configuration.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Switch	String	Yes	Forced access protocol redirection configuration switch. Valid values: on, off. Note: this field may return null, indicating that no valid values can be obtained.
RedirectType	String	No	Access protocol type for forced redirection. Valid values: http (forced redirection to HTTP protocol), https (forced redirection to HTTPS protocol). Note: this field may return null, indicating that no valid values can be obtained.
RedirectStatusCode	Integer	No	HTTP status code returned when forced redirection is enabled. Valid values: 301, 302. Note: this field may return null, indicating that no valid values can be obtained.

Hsts

HSTS configuration.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Switch	String	Yes	Whether to enable. Valid values: on, off.
MaxAge	Integer	No	`MaxAge` value. Note: this field may return null, indicating that no valid values can be obtained.
IncludeSubDomains	String	No	Whether to include subdomain names. Valid values: on, off. Note: this field may return null, indicating that no valid values can be obtained.

HttpHeaderPathRule

Path-specific HTTP header setting rule.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
HeaderMode	String	Yes	HTTP header setting method. Valid values: add (add header), set (set header), del (delete header). Request header currently does not support `set`. Note: this field may return null, indicating that no valid values can be obtained.
HeaderName	String	Yes	HTTP header name. Note: this field may return null, indicating that no valid values can be obtained.
HeaderValue	String	Yes	HTTP header value, which is optional when it is `del`. Note: this field may return null, indicating that no valid values can be obtained.
RuleType	String	Yes	Type of effective URL path rule. Valid values: all (all paths), file (file extension), directory (directory), path (absolute path). Note: this field may return null, indicating that no valid values can be obtained.
RulePaths	Array of String	Yes	URL path or file type list Note: this field may return null, indicating that no valid values can be obtained.

Https

HTTPS configuration of domain name.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Switch	String	Yes	HTTPS configuration switch. Valid values: on, off. If the domain name with HTTPS configuration enabled is being deployed, this switch will be `off`. Note: this field may return null, indicating that no valid values can be obtained.
Http2	String	No	Whether to enable HTTP2. Valid values: on, off. Note: this field may return null, indicating that no valid values can be obtained.
OcspStapling	String	No	Whether to enable the OCSP feature. Valid values: on, off. Note: this field may return null, indicating that no valid values can be obtained.
VerifyClient	String	No	Whether to enable the client certificate verification feature. Valid values: on, off. The client certificate information must be uploaded if this feature is enabled. Note: this field may return null, indicating that no valid values can be obtained.
CertInfo	ServerCert	No	Server certificate configuration information. Note: this field may return null, indicating that no valid values can be obtained.
ClientCertInfo	ClientCert	No	Client certificate configuration information. Note: this field may return null, indicating that no valid values can be obtained.
Spdy	String	No	Whether to enable SPDY. Valid values: on, off. Note: this field may return null, indicating that no valid values can be obtained.
SslStatus	String	No	HTTPS certificate deployment status. Valid values: closed (disabled), deploying (deploying), deployed (deployment succeeded), failed (deployment failed). This parameter cannot be used as an input parameter. Note: this field may return null, indicating that no valid values can be obtained.

Hsts	Hsts	No	HSTS configuration Note: this field may return null, indicating that no valid values can be obtained.

IpFilter

IP blocklist/allowlist.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Switch	String	Yes	IP blocklist/allowlist switch. Valid values: on, off.
FilterType	String	No	IP blocklist/allowlist type. Valid values: whitelist, blacklist. Note: this field may return null, indicating that no valid values can be obtained.
Filters	Array of String	No	IP blocklist/allowlist list. Note: this field may return null, indicating that no valid values can be obtained.

IpFreqLimit

IP access limit configuration.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Switch	String	Yes	IP access limit switch. Valid values: on, off.
Qps	Integer	No	Number of requests per second. Note: this field may return null, indicating that no valid values can be obtained.

IpStatus

Node IP information

Used by actions: DescribeIpStatus.

Name	Type	Description
Ip	String	Node IP
District	String	Node region
Isp	String	Node ISP
City	String	Node city
Status	String	Node status online: the node is online and scheduling normally offline: the node is offline
CreateTime	Timestamp	Node IP creation time

Origin

Origin server configuration.

Used by actions: AddEcdnDomain, DescribeDomains, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Origins	Array of String	No	Primary origin server list. IP and the domain name of the origin server cannot be entered at the same time. Configure origin server port in the format of ["origin1:port1", "origin2:port2"]. Configure origin-pull weight in the format of ["origin1::weight1", "origin2::weight2"]. Configure both port and weight in the format of ["origin1:port1:weight1", "origin2:port2:weight2"]. Valid range of weight value: 0 - 100.
OriginType	String	No	Primary origin server type. Valid values: domain (domain name origin server), ip (IP origin server). This is required when setting `Origins` . Note: this field may return null, indicating that no valid values can be obtained.
ServerName	String	No	Host header value during origin-pull. Note: this field may return null, indicating that no valid values can be obtained.
OriginPullProtocol	String	No	Origin-pull protocol type. Valid values: http (forced HTTP

			origin-pull), follow (protocol follow), https (HTTPS origin-pull). If this parameter is left empty, HTTP origin-pull will be used by default. Note: this field may return `null` , indicating that no valid value is obtained.
BackupOrigins	Array of String	No	Secondary origin server list.
BackupOriginType	String	No	Secondary origin server type, which is the same as `OriginType` . This is required when setting `BackupOrigins` . Note: this field may return null, indicating that no valid values can be obtained.
AdvanceHttps	AdvanceHttps	No	HTTPS advanced origin-pull configuration Note: This field may return `null` , indicating that no valid values can be obtained.

PurgeTask

Purge task log details.

Used by actions: DescribePurgeTasks.

Name	Type	Description
TaskId	String	Purge task ID.
Url	String	Purged URL.
Status	String	Purge task status. fail: failed, done: succeeded, process: purging.
PurgeType	String	Purge type. url: URL purge; path: directory purge.
FlushType	String	Resource purge method. flush: purges updated resources, delete: purges all resources.
CreateTime	Timestamp	Purge task submission time

Quota

Purge usage and quota

Used by actions: DescribePurgeQuota.

Name	Type	Description
Batch	Integer	Quota limit for one batch submission request.
Total	Integer	Daily submission quota limit.
Available	Integer	Remaining daily submission quota.

ResourceData

Query object and its access details

Used by actions: DescribeEcdnStatistics.

Name	Type	Description
Resource	String	Resource name, which is categorized as follows based on different query conditions: Specific domain name: indicates the details of the specific domain name multiDomains: indicates aggregated details of multiple domain names Project ID: displays the ID of the specified project to be queried all: details at the account level
EcdnData	EcdnData	Data details of resource

ResponseHeader

Custom response header configuration.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Switch	String	Yes	Custom response header switch. Valid values: on, off.
HeaderRules	Array of HttpHeaderPathRule	No	Custom response header rule array. Note: this field may return null, indicating that no valid values can be obtained.

ServerCert

HTTPS server certificate configuration.

Used by actions: AddEcdnDomain, DescribeDomains, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
CertId	String	No	Server certificate ID, which is required if the certificate is a Tencent Cloud-hosted certificate. Note: this field may return null, indicating that no valid values can be obtained.
CertName	String	No	Server certificate name, which is required if the certificate is a Tencent Cloud-hosted certificate. Note: this field may return null, indicating that no valid values can be obtained.
Certificate	String	No	Server certificate information, which is required when uploading your own certificate and must contain complete certificate chain information. Note: this field may return null, indicating that no valid values can be obtained.
PrivateKey	String	No	Server key information, which is required when uploading your own certificate. Note: this field may return null, indicating that no valid values can be obtained.
ExpireTime	Timestamp	No	Certificate expiration time. Note: this field may return null, indicating that no valid values can be obtained.
DeployTime	Timestamp	No	Certificate issuance time. Note: this field may return null, indicating that no valid values can be obtained.
Message	String	No	Certificate remarks. Note: this field may return null, indicating that no valid values can be obtained.

Sort

Sorting criteria for query results.

Used by actions: DescribeDomainsConfig.

Name	Type	Required	Description
Key	String	Yes	Sort by field. Valid values: createTime: domain name creation time certExpireTime: certificate expiration time
Sequence	String	No	asc/desc. Default value: desc.

Tag

Tag key and tag value.

Used by actions: AddEcdnDomain, DescribeDomains, DescribeDomainsConfig.

Name	Type	Required	Description
TagKey	String	Yes	Tag key. Note: this field may return `null` , indicating that no valid value is obtained.
TagValue	String	Yes	Tag value. Note: this field may return `null` , indicating that no valid value is obtained.

TimestampData

Timestamp and its corresponding value

Used by actions: DescribeEcdnStatistics.

Name	Type	Description
Time	Timestamp	Statistical time point in forward rounding mode Taking the 5-minute granularity as an example, 13:35:00 indicates that the statistical interval is between 13:35:00 and 13:39:59
Value	Array of Float	Data value

WebSocket

WebSocket configuration.

Used by actions: AddEcdnDomain, DescribeDomainsConfig, UpdateDomainConfig.

Name	Type	Required	Description
Switch	String	Yes	Whether to enable custom WebSocket timeout setting. When it's `off`: WebSocket connection is supported, and the default timeout period is 15 seconds. To change the timeout period, please set it to `on`. * WebSocket is now only available for beta users. To use it, please submit a ticket.
Timeout	Integer	No	Sets timeout period in seconds. Maximum value: 65 Note: This field may return `null`, indicating that no valid values can be obtained.

Error Codes

Last updated：2022-02-23 10:16:39

Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please check your si
gnature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	`Authorization` in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
FailedOperation.EcdnConfigError	Failed to update the domain name configuration. Please try again or contact customer service for assistance.
InternalError.EcdnConfigError	Internal configuration service error. Please try again later or contact the customer service for assistance.
InternalError.EcdnDbError	Internal data error. Please submit a ticket for troubleshooting.
InternalError.EcdnSystemError	System error. Please submit a ticket for troubleshooting.
InternalError.ProxyServer	Backend service error. Please try again later.
InvalidParameter.EcdnCamTagKeyNotExist	The tag key does not exist.

InvalidParameter.EcdnCertNoCertInfo	Unable to resolve the certificate information.
InvalidParameter.EcdnConfigInvalidCache	The cache configuration is invalid.
InvalidParameter.EcdnDomainInvalidStatus	Invalid domain name status.
InvalidParameter.EcdnInterfaceError	Internal API error. Please submit a ticket for troubleshooting.
InvalidParameter.EcdnInvalidParamArea	Invalid `Area` parameter. Please see the sample parameters in the documentation.
InvalidParameter.EcdnInvalidParamInterval	Invalid statistical granularity. Please see the sample statistical analysis in the documentation.
InvalidParameter.EcdnParamError	Parameter error. Please see the sample parameters in the documentation.
InvalidParameter.EcdnPurgeWildcardNotAllowed	Wildcard domain names are not supported for purging.
InvalidParameter.EcdnResourceManyTagKey	This domain name binds too many tag keys.
InvalidParameter.EcdnStatInvalidDate	Invalid date. Please see the sample date in the documentation.
InvalidParameter.EcdnStatInvalidMetric	Invalid statistical type. Please see the sample statistical analysis in the documentation.
InvalidParameter.EcdnTagKeyInvalid	Invalid tag key.
InvalidParameter.EcdnTagKeyNotExist	The tag key does not exist.
InvalidParameter.EcdnTagKeyTooManyValue	The tag key has too many values.
InvalidParameter.EcdnTagValueInvalid	Invalid tag value.
InvalidParameter.EcdnUrlExceedLength	The URL length exceeds the limit.
InvalidParameter.EcdnUserTooManyTagKey	This user has too many tag keys.
InvalidParameter.ParamError	Parameter error
LimitExceeded.EcdnDomainOpTooOften	Domain name operations are too frequent.
LimitExceeded.EcdnPurgePathExceedBatchLimit	The number of directories to be purged exceeded the limit on one request.
LimitExceeded.EcdnPurgePathExceedDayLimit	The number of directories to be purged exceeded the

	daily limit.
LimitExceeded.EcdnPurgeUrlExceedBatchLimit	The number of URLs to be purged exceeded the limit on one request.
LimitExceeded.EcdnPurgeUrlExceedDayLimit	The number of URLs to be purged exceeded the daily quota.
LimitExceeded.EcdnUserTooManyDomains	The number of connected domain names reached the upper limit.
ResourceInUse.EcdnDomainExists	This domain name already exists.
ResourceInUse.EcdnOpInProgress	The ECDN resource is being manipulated.
ResourceNotFound.EcdnDomainNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnHostNotExists	This domain name does not exist under the account. Please check and try again.
ResourceNotFound.EcdnProjectNotExists	The project does not exist.
ResourceNotFound.EcdnUserNotExists	The ECDN service has not been activated. Please activate it first before using this API.
ResourceUnavailable.EcdnDomainIsLocked	The domain name has been locked. Please submit a ticket.
ResourceUnavailable.EcdnDomainIsNotOffline	Failed to deactivate the domain name. Please check and try again.
ResourceUnavailable.EcdnDomainIsNotOnline	The domain name has been deactivated. Please check and try again.
UnauthorizedOperation.CdnAccountUnauthorized	The sub-account is unauthorized to query full data.
UnauthorizedOperation.CdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.CdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.CdnHostUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.CdnNoDomainUnauthorized	The sub-account does not have the permission to access the domain name. Please try again after authorization.

UnauthorizedOperation.CdnProjectUnauthorized	The project is not authorized for the sub-account.
UnauthorizedOperation.DomainNoPermission	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.DomainsNoPermission	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnAccountUnauthorized	The sub-account is unauthorized to query full data.
UnauthorizedOperation.EcdnCamUnauthorized	No CAM policy is configured for the sub-account.
UnauthorizedOperation.EcdnDomainRecordNotVerified	The domain name resolution is not verified.
UnauthorizedOperation.EcdnDomainUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnHostIsOwnedByOther	This domain name belongs to another account. You are not allowed o connect it to ECDN.
UnauthorizedOperation.EcdnHostUnauthorized	The acceleration domain name is not authorized for the ECDN sub-account.
UnauthorizedOperation.EcdnMigratedCdn	Please go to the CDN console for operation.
UnauthorizedOperation.EcdnNoDomainUnauthorized	The sub-account does not have the permission to access the domain name. Please try again after authorization.
UnauthorizedOperation.EcdnProjectUnauthorized	The project is not authorized for the sub-account.
UnauthorizedOperation.EcdnUserIsSuspended	The acceleration service has been suspended. Please restart it and try again.
UnauthorizedOperation.EcdnUserNoWhitelist	You are not on the beta allowlist and thus have no permission to use this feature.
UnauthorizedOperation.NoPermission	CAM is not authorized for the ECDN sub-account.
UnauthorizedOperation.ProjectNoPermission	The project is not authorized for the ECDN sub-account.
UnauthorizedOperation.ProjectsNoPermission	The project is not authorized for the ECDN sub-account.
UnauthorizedOperation.Unknown	Unknown error. Please try again later.