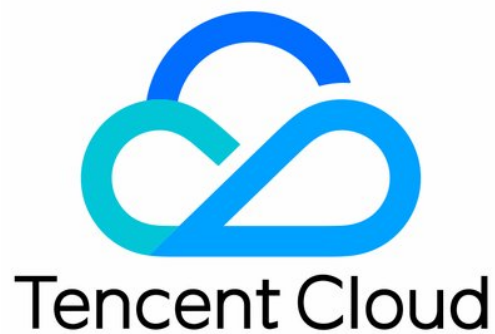


Cloud Application Rendering

API Documentation

Product Documentation



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Last updated : 2024-09-14 10:44:50

Release 8

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Release updates:

Improvement to existing documentation.

New APIs:

- [BindConcurrentPackagesToProject](#)
- [CreateApplicationProject](#)
- [DeleteApplicationProjects](#)
- [DescribeApplicationProjectAdvancedConfig](#)
- [DescribeApplicationProjects](#)
- [DescribeConcurrentPackages](#)
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Release 7

Release time: 2024-09-02 19:06:05

Release updates:

Improvement to existing documentation.

New APIs:

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- [CreateApplicationSnapshot](#)
- [CreateApplicationVersion](#)
- [DeleteApplication](#)
- [DeleteApplicationVersion](#)
- [DescribeApplicationFileInfo](#)
- [DescribeApplicationList](#)
- [DescribeApplicationPathList](#)
- [DescribeApplicationStatus](#)
- [DescribeApplicationVersion](#)
- [DescribeCosCredential](#)
- [ModifyApplicationBaseInfo](#)
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New data structures:

- [ApplicationBaseInfo](#)
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Release 6

Release time: 2024-02-02 10:21:03

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeConcurrentCount](#)

Release 5

Release time: 2023-10-23 10:55:53

Release updates:

Improvement to existing documentation.

New APIs:

- [StartPublishStreamWithURL](#)

Release 4

Release time: 2023-08-24 15:56:57

Release updates:

Improvement to existing documentation.

New APIs:

- [StartPublishStream](#)
- [StopPublishStream](#)

Release 3

Release time: 2023-06-27 10:02:14

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateSession](#)
 - New input parameters: ApplicationParameters, HostUserId, Role
 - **Modified input parameters:** ClientSession

Release 2

Release time: 2023-02-08 10:41:33

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ApplyConcurrent](#)
 - New input parameters:ApplicationId

Release 1

Release time: 2022-09-05 17:28:33

Release updates:

Improvement to existing documentation.

New APIs:

- [ApplyConcurrent](#)
- [CreateSession](#)
- [DestroySession](#)

Introduction

Last updated : 2024-09-02 19:06:06

Cloud Application Rendering (CAR) leverages Tencent Cloud's powerful GPU compute capabilities and audio/video streaming technologies to offer one-stop cloud application services. With CAR's PaaS solution, users can access your application on the cloud via lightweight terminals such as mini-programs and HTML5 terminals without the need to download the application.

API Category

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User APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ApplyConcurrent	Requests concurrency quota	100
CreateSession	Creates a session	100
DestroySession	Terminates a session	100

Application Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateApplication	Creates a cloud application	20
CreateApplicationSnapshot	Creates a cloud application snapshot	20
CreateApplicationVersion	Creates a cloud application version	20
DeleteApplication	Deletes a cloud application	20
DeleteApplicationVersion	Deletes a cloud application version	20
DescribeApplicationList	Queries the cloud application list	20
DescribeApplicationPathList	Queries the cloud application startup path list	20
DescribeApplicationStatus	Queries cloud application status	20
DescribeApplicationVersion	Queries the version information of a cloud application	20
DescribeCosCredential	Queries COS key information	20
ModifyApplicationBaseInfo	Modifies basic information of a cloud application	20

ModifyApplicationVersion	Modifies the version information of a cloud application	20
SetApplicationVersionOnline	Launches a cloud application version	20
DescribeApplicationFileInfo	Queries application file information	20
ModifyMobileApplicationInfo	Modifies the mobile application information	20

Project Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateApplicationProject	Creates a cloud application project	20
DeleteApplicationProjects	Deletes cloud application projects in batches	20
DescribeApplicationProjects	Obtains the cloud application project list	20
DescribeConcurrentCount	Obtains the concurrency count	20
ModifyApplicationProject	Modifies a cloud application project	20
DescribeApplicationProjectAdvancedConfig	Obtains the configuration information of a cloud application project	20

Concurrency Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeConcurrentPackages	Obtains the cloud application concurrency pack list	20
BindConcurrentPackagesToProject	Binds a concurrency pack to a project	20

ModifyConcurrentPackage	Modifies a cloud application concurrency pack	20
ResetConcurrentPackages	Resets a concurrency pack	20
UnbindConcurrentPackagesFromProject	Unbinds a concurrency pack from a project	20
DescribeConcurrentSummary	Queries the concurrency overview	20

Stream Push Service APIs

API Name	Feature	Frequency Limit (maximum requests per second)
StopPublishStream	Stops pushing streams	20
StartPublishStream	Starts pushing streams	20
StartPublishStreamWithURL	Starts pushing streams to a specified URL	20

Making API Requests

Request Structure

Last updated : 2024-11-27 14:37:25

1. Service Address

The API supports access from either a nearby region (at `car.intl.tencentcloudapi.com`) or a specified region (at `car.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 "`car.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)	<code>car.intl.tencentcloudapi.com</code>
South China (Guangzhou)	<code>car.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>car.ap-shanghai.tencentcloudapi.com</code>
North China (Beijing)	<code>car.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>car.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>car.ap-chongqing.tencentcloudapi.com</code>
Hong Kong, Macao, Taiwan (Hong Kong, China)	<code>car.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>car.ap-singapore.tencentcloudapi.com</code>
Southeast Asia (Bangkok)	<code>car.ap-bangkok.tencentcloudapi.com</code>

South Asia (Mumbai)	car.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	car.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	car.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	car.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	car.na-siliconvalley.tencentcloudapi.com
Europe (Frankfurt)	car.eu-frankfurt.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.

The exact contents of the common parameters will vary depending on the version of the signature method you use.

Common parameters for 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 <code>Action</code> in the input parameters in r documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
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 <code>Region</code> in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relatec 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 <code>Version</code> in the API documentation. For example, the versi 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKID*****/Date/service/tc3_request, SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKID***** is the SecretId; Date is a d time, and this value must match the value of X-TC-Timestamp (a commo

			UTC time format; service is the name of the product/service, and is general name prefix. For example, a domain name cvm.tencentcloudapi.com refers to product and the value would be cvm; - SignedHeaders: The headers that contain the authentication information 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 temporary key to 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/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
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=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
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=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
```

```
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--
```

Common parameters for 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
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
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 <code>Region</code> 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 <code>Timestamp</code> 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 <code>Version</code> 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&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
```

```
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=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
****
```

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 `AKID*****` and `*****`, 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=AKID*****
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=ca282b0a
56549857d53b2beb08b0c35871c892d42d09ae30b38d456e09ce291f" \
-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 <code>POST</code> .
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 string for POST requests, and is the string after the question mark (?) for GET requests. For example: <code>Limit=10&Offset=0</code>. Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code>. Custom headers can be added to participate in the signature process to improve the uniqueness and security of the request. Concatenation rules: - Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format; - 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 <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>. Note: <code>content-type</code> 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 server 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 headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers. Concatenation rules: - Both the key and value of the header should be converted to lowercase; - 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 <code>content-type;host</code>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>

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

 in this example
The pseudocode for calculation is
Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, `RequestPayload` is always an empty string. The calculation result in this example is
`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

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 <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in request header, which is the UNIX timestamp of the current time in seconds, such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; <code>service</code> is the product name, which should be the domain name of the product called. The calculation result in this example is <code>2018-05-25/cvm/tc3_request</code> .

HashedCanonicalRequest

Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))). The calculation result in this example is

```
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

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
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

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

```
SecretKey = "*****"
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., *****.
Date	The Date field information in Credential , such as 2019-02-25 in this example.

Service	Value in the Service field in <code>Credential</code> , such as <code>cvm</code> 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 <code>TC3-HMAC-SHA256</code> .
SecretId	The SecretId in the key pair, i.e., <code>AKID*****</code> .
CredentialScope	Credential scope (see above). The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .
SignedHeaders	Header information for signature calculation (see above), such as <code>content-type;host</code> in this example.
Signature	Signature value. The calculation result in this example is <code>ca282b0a56549857d53b2beb08b0c35871c892d42d09ae30b38d456e09ce291f</code> .

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

```
TC3-HMAC-SHA256 Credential=AKID*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=ca282b0a56549857d53b2beb08b0c35871c892d42d09ae30b38d456e09ce291f
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/  
Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=ca282b0a56549857d53b2beb08b0c35871c892d42d09ae30b38d456e09ce291f
```

```
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&InstanceId=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGel%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 = "AKID*****";
    private final static String SECRET_KEY = "*****";
    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" + "host:" + 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" + canonicalQueryString + "\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, stringToSign)).toLowerCase();
System.out.println(signature);

// ***** Step 4: Concatenate the Authorization *****
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + credentialScope + ", "
+ "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 = "AKID*****"
secret_key = "*****"

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")).hexdigest()
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.sha256).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 := "AKID*****"
    secretKey := "*****"
    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
$secretId = "AKID*****";
$secretKey = "*****";
$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:". $host. "\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}';
$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 = 'AKID*****'
secret_key = '*****'

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 = "AKID*****";
    string SECRET_KEY = "*****";

    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 project, 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\\u547d\\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 = "AKID*****"
  const SECRET_KEY = "*****"

  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" + "host:" + 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++)
    {
        sprintf(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 OPENSSSL_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 OPENSSSL_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 = "AKID*****";
string SECRET_KEY = "*****";

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" + canonicalQueryString + "\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" + credentialScope + "\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: AKID*****
- SecretKey: *****

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

The final signature is:

```
9FzTQAN1UZ489+BqCg1fNBQaCqw=
```

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 9FzTQAN1UZ489+BqCg1fNBQaCqw=, the final signature string request parameter (Signature) is 9FzTQAN1UZ489%2BBqCg1fNBQaCqw%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=AKID*****&Signature=9FzTQAN1UZ489%2BBqCg1fNBQaCqw%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.getAlgorithm());
        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. TreeMap
        // 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 UnsupportedEncodingException {
        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 letters, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).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 enables automatic sorting
    // A random number should be used when actually calling, for example: params.put("Nonce", new Random().nextInt(Integer.MAX_VALUE));
    params.put("Nonce", 11886); // Common parameter
    // The current time of the system should be used when actually calling, for example: params.put("Timestamp", System.currentTimeMillis() / 1000);
    params.put("Timestamp", 1465185768); // Common parameter
    params.put("SecretId", "AKID*****"); // Common parameter
    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), "*****", "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 = "AKID*****"
secret_key = "*****"
```

```

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 := "AKID*****"
    secretKey := "*****"

```

```

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 = "AKID*****";
$secretKey = "*****";
$params["Nonce"] = 11886; //rand();

```

```

$params["Timestamp"] = 1465185768;//time();
$params["Region"] = "ap-guangzhou";
$params["SecretId"] = $secretId;
$params["Version"] = "2017-03-12";
$params["Action"] = "DescribeInstances";
$params["InstanceIds.0"] = "ins-09dx96dg";
$params["Limit"] = 20;
$params["Offset"] = 0;

ksort($params);

$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $params 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
// $params["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($params);
// 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 = "AKID*****"
secret_key = "*****"

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, sign))
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> requestParams, 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 = "AKID*****";
    string SECRET_KEY = "*****";

    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>(param, 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 = "AKID*****"
const SECRET_KEY = "*****"

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 : 2024-05-30 15:10:15

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

User APIs

ApplyConcurrent

Last updated : 2024-11-27 14:37:30

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to request concurrency quota. The timeout period of the API is 20 seconds.

A maximum of 100 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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ApplyConcurrent.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
UserId	Yes	String	Unique user ID, which is customized by you and is not parsed by CAR. Based on your needs, you can either define unique IDs for users or use timestamps to generate random IDs. Make sure the same ID is used when a user reconnects to your application.
UserIp	Yes	String	Public IP address of the user's client, which is used for nearby scheduling.
ProjectId	Yes	String	Project ID.

ApplicationVersionId	No	String	Application version ID. If the application of the current version is requested, you do not need to fill in this field. If the application of the other versions is requested, you need to specify the version through this field.
ApplicationId	No	String	Application ID, which is used only by the multi-application project to specify applications. For a single-application project, this parameter is ignored, and the application bound to the project will be used.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Requesting Concurrency Quota

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ApplyConcurrent
<Common request parameters>

{
  "UserId": "cg_user",
  "ProjectId": "cap-abcdefgh",
  "ApplicationVersionId": "ver-1a2b3c4d",
  "UserId": "125.127.178.228",
}
```

Output Example

```
{
  "Response": {
    "RequestId": "fcf4146f-64d3-496c-88dc-d12f832de313"
  }
}
```

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 Node.js](#)
- [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	Operation failed.
FailedOperation.ProcessTimeout	Processing timed out.
InternalError	Internal error.
InvalidParameter.JsonParseError	JSON parsing error.
InvalidParameterValue	Invalid parameter value.

ResourceNotFound.NoIdle	No available concurrency quota.
ResourceUnavailable.Initialization	It is being initialized.
UnsupportedOperation.Stopping	The session is being terminated.

CreateSession

Last updated : 2024-11-27 14:37:29

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to create a session. The timeout period of the API is 5 seconds.

A maximum of 100 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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateSession.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
UserId	Yes	String	Unique user ID, which is customized by you and is not parsed by CAR. Based on your needs, you can either define unique IDs for users or use timestamps to generate random IDs. Make sure the same ID is used when a user reconnects to your application.
UserIp	Yes	String	Public IP address of the user's client, which is used for nearby scheduling.
ClientSession	No	String	Client-side session information, which is obtained from the SDK. If <code>RunMode</code> is <code>RunWithoutClient</code> , this parameter can be empty.

RunMode	No	String	On-cloud running mode. RunWithoutClient: Keeps the application running on the cloud even when there are no client connections. Empty string (default): Keeps the application running on the cloud only when there are client connections.
ApplicationParameters	No	String	Application startup parameters. This parameter is effective for multi-application projects. This parameter is effective for single-application projects with prelaunch disabled. This parameter is ineffective for single-application projects with prelaunch enabled. Note: When this parameter is effective, it will be appended to the startup parameters of application or project configuration in the console. For example, for a single-application project with prelaunch disabled, if its startup parameter <code>bar</code> is <code>0</code> for project configuration in the console and the <code>ApplicationParameters</code> parameter <code>foo</code> is <code>1</code> , the actual application startup parameters will be <code>bar=0</code> and <code>foo=1</code> .
HostUserId	No	String	[Multi-person Interaction] Homeowner's user ID, which is required in multi-person interaction mode. If the user is the homeowner, HostUserID must be the same as UserID. If the user is not the homeowner, HostUserID must be the homeowner's HostUserID.
Role	No	String	[Multi-person Interaction] Role. Player: a user who can operate the application via keyboard, mouse, etc. Viewer: a user who can only watch the video in the room but cannot operate the application.

3. Output Parameters

Parameter Name	Type	Description
ServerSession	String	Server-side session information, which is returned to the SDK.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain

a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a Session

This example shows you how to create a session.

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateSession
<Common request parameters>

{
  "UserId": "cg_user",
  "ClientSession": "eyJhYmMiOjEyM30=",
  "UserId": "cg_user"
}
```

Output Example

```
{
  "Response": {
    "ServerSession": "eyJ4dHoiOjc4OX0=",
    "RequestId": "fcf4146f-64d3-496c-88dc-d12f832de313"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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	Operation failed.
FailedOperation.LockTimeout	Concurrency quota not requested or request timed out.
FailedOperation.PathNotFound	Failed to find the path.
FailedOperation.ProcessTimeout	Processing timed out.
FailedOperation.SlowDown	The request of the current <code>UserId</code> is being processed. Try again later.
InternalError	Internal error.
InvalidParameter.JsonParseError	JSON parsing error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded.Role	[Multi-person Interaction] The number of persons corresponding to a role exceeds the limit.
OperationDenied	Operation denied.
ResourceNotFound.Noidle	No available concurrency quota.
ResourceNotFound.SessionNotFound	Unable to find the session.
ResourceUnavailable.Initialization	It is being initialized.

UnsupportedOperation.Stopping	The session is being terminated.
-------------------------------	----------------------------------

DestroySession

Last updated : 2024-11-27 14:37:29

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to terminate a session. If cloud-based streaming has been enabled for this session, the cloud-based streaming will end upon session termination.

A maximum of 100 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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DestroySession.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
UserId	Yes	String	Unique user ID, which is customized by you and is not parsed by CAR. Based on your needs, you can either define unique IDs for users or use timestamps to generate random IDs. Make sure the same ID is used when a user reconnects to your application.

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Terminating a Session

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DestroySession
<Common request parameters>

{
  "UserId": "abc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "fcf4146f-64d3-496c-88dc-d12f832de313"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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	Operation failed.
FailedOperation.ProcessTimeout	Processing timed out.
InternalError	Internal error.
InvalidParameter.JsonParseError	JSON parsing error.
ResourceUnavailable.AccessFailed	Failed to access the concurrency instance.

Application Management APIs

CreateApplication

Last updated : 2024-11-27 14:37:44

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to create an application.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateApplication.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationName	Yes	String	Application name.
ApplicationType	Yes	String	Application type (Application3D: cloud 3D; ApplicationXR: cloud XR; ApplicationAPK: cloud APK).

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
ApplicationId	String	Application ID.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating an Application

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateApplication
<Common request parameters>
```

```
{
  "ApplicationName": "xxx",
  "ApplicationType": "Application3D"
}
```

Output Example

```
{
  "Response": {
    "ApplicationId": "app-xkfad8s7",
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation.ApplicationCreateFail	Application creation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
OperationDenied.ApplicationLimitExceeded	The number of applications exceeds the limit.

CreateApplicationSnapshot

Last updated : 2024-11-27 14:37:43

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to create a cloud application version snapshot.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateApplicationSnapshot.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
ApplicationDownloadUrl	Yes	String	Application download address (if the version is created by file upload, this parameter is an empty string).

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a Cloud Application Snapshot

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateApplicationSnapshot
<Common request parameters>

{
  "ApplicationId": "app-afrherc",
  "ApplicationDownloadUrl": "http://www.xxx/xxx.zip"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
FailedOperation.ApplicationLockFail	Application lock failed.
FailedOperation.ApplicationNotFound	Application does not exist.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
OperationDenied	Operation denied.

CreateApplicationVersion

Last updated : 2024-11-27 14:37:43

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to create a cloud application version.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateApplicationVersion.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
ApplicationFileName	Yes	String	Application file name (desktop applications should be files in zip/rar/7z format, and mobile applications should be files in apk format).
ApplicationVersionRegions.N	No	Array of String	Region for application version distribution.

ApplicationVersionUpdateMode	No	String	Application update method.
------------------------------	----	--------	----------------------------

3. Output Parameters

Parameter Name	Type	Description
Version	UserApplicationVersion	Application version data (new).
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a Cloud Application Version

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateApplicationVersion
<Common request parameters>

{
  "ApplicationId": "xxx",
  "ApplicationFileName": "xxx.zip",
  "ApplicationVersionRegions": [
    "ap-chinese-mainland",
    "na-north-america-fusion"
  ],
  "ApplicationVersionUpdateMode": "INCREMENT"
}
```

Output Example

```
{
  "Response": {
    "Version": {
      "ApplicationVersionId": "app-efgtyab",
      "ApplicationVersionSize": 1024,
      "ApplicationVersionStatus": "Creating",
      "ApplicationVersionName": "xxx",
      "ApplicationVersionRegions": [
        "ap-chinese-mainland",
        "na-north-america-fusion"
      ],
      "ApplicationVersionUpdateMode": "INCREMENT",
      "CreateTime": "2020-09-22T00:00:00+00:00"
    },
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

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 Node.js](#)
- [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.ApplicationLockFail	Application lock failed.
FailedOperation.ApplicationNotFind	Application does not exist.
InternalError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
OperationDenied	Operation denied.
OperationDenied.VersionCreating	Version is being created.
OperationDenied.VersionLimitExceeded	The number of versions exceeds the limit.

DeleteApplication

Last updated : 2024-11-27 14:37:43

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to delete a cloud application.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteApplication.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Deleting a Cloud Application

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteApplication
<Common request parameters>

{
  "ApplicationId": "app-fdgcabe"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation.ApplicationLockFail	Application lock failed.
FailedOperation.ApplicationNotFound	Application does not exist.
FailedOperation.VersionLockFail	Version lock failed.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

DeleteApplicationVersion

Last updated : 2024-11-27 14:37:42

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to delete a cloud application version.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteApplicationVersion.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
ApplicationVersionId	Yes	String	Application version ID.

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
-----------	--------	---

4. Example

Example1 Deleting a Cloud Application Version

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteApplicationVersion
<Common request parameters>
```

```
{
  "ApplicationId": "app-gnlxuge",
  "ApplicationVersionId": "ver-eglebca"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation.ApplicationLockFail	Application lock failed.
FailedOperation.ApplicationNotFound	Application does not exist.
FailedOperation.VersionLockFail	Version lock failed.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
OperationDenied	Operation denied.

DescribeApplicationList

Last updated : 2024-11-27 14:37:41

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to query the cloud application list.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeApplicationList.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	Yes	Integer	Application list offset.
Limit	Yes	Integer	Application quantity limit.
Filters.N	No	Array of Filter	Filter criteria.
ApplicationCategory	No	String	Application category (DESKTOP: desktop; MOBILE: mobile).

3. Output Parameters

Parameter Name	Type	Description
UserApplicationList	Array of UserApplicationInfo	Application list information.
ApplicationTotal	Integer	Total number of applications.
UserMobileApplicationList	Array of UserMobileApplicationInfo	Mobile application list information.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the Cloud Application List

This example shows you how to query the application list.

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeApplicationList
<Common request parameters>
```

```
{
  "Offset": 0,
  "Limit": 20,
  "Filters": [
    {
      "Name": "ApplicationId",
      "Values": [
        "app-6get57ac"
      ]
    }
  ]
}
```

```
],  
  "ApplicationCategory": "MOBILE"  
}
```

Output Example

```
{  
  "Response": {  
    "UserApplicationList": [  
      {  
        "ApplicationId": "app-6get57ac",  
        "ApplicationName": "xxx",  
        "ApplicationType": "Application3D",  
        "ApplicationExePath": "xxx",  
        "ApplicationInterList": "xxx",  
        "ApplicationParams": "xxx",  
        "ApplicationCreateTime": "2021-08-29T08:00:30Z",  
        "ApplicationRunStatus": "xxx",  
        "ApplicationUpdateStatus": "xxx",  
        "ApplicationUpdateProgress": 100,  
        "ApplicationVersions": [  
          {  
            "ApplicationVersionId": "ver-gq4c5eq",  
            "ApplicationVersionSize": 1024,  
            "ApplicationVersionStatus": "xxx",  
            "ApplicationVersionName": "xxx",  
            "CreateTime": "2021-08-29T08:00:30Z"  
          }  
        ],  
        "ApplicationBaseInfo": {  
          "WindowUseType": "ApplicationWindow",  
          "WindowName": "xxx",  
          "WindowClassName": "xxx",  
          "WindowCaptureMode": "HOOK"  
        },  
        "ApplicationNature": "PUBLIC",  
        "ApplicationStores": [  
          {  
            "CosBucket": "bucket-123456",  
            "CosRegion": "ap-guangzhou",  
            "StoreType": "LOG",  
            "StoreState": "ON",  
            "StorePath": "xxx"  
          }  
        ],  
        {  
          "CosBucket": "bucket-123456",
```

```
"CosRegion": "ap-guangzhou",
"StoreType": "ARCHIVE",
"StoreState": "OFF",
"StorePath": "xxx"
}
],
"ApplicationTotal": 100,
"RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
InternalServerError	Internal error.

InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

DescribeApplicationPathList

Last updated : 2024-11-27 14:37:41

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to query the cloud application startup path list.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeApplicationPathList.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Cloud application ID.
ApplicationVersionId	No	String	Cloud application version ID.

3. Output Parameters

Parameter Name	Type	Description

PathList	Array of String	Application .exe file path list. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the Cloud Application Startup Path List

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeApplicationPathList
<Common request parameters>
```

```
{
  "ApplicationId": "app-afdxfafe",
  "ApplicationVersionId": "ver-geyacbf"
}
```

Output Example

```
{
  "Response": {
    "PathList": [
      "xxxx\\xxx.exe"
    ],
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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.ApplicationNotFound	Application does not exist.
InvalidParameter	Parameter error.

DescribeApplicationStatus

Last updated : 2024-11-27 14:37:40

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to query the running status of a cloud application and update status information.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeApplicationStatus.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationIdList.N	Yes	Array of String	Application ID list.

3. Output Parameters

Parameter Name	Type	Description

StatusList	Array of UserApplicationStatus	Application status list.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying Cloud Application Status

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeApplicationStatus
<Common request parameters>
```

```
{
  "ApplicationIdList": [
    "app-lgefefa"
  ]
}
```

Output Example

```
{
  "Response": {
    "StatusList": [
      {
        "ApplicationId": "app-lgefefa",
        "ApplicationRunStatus": "ApplicationRunning",
        "ApplicationUpdateStatus": "ApplicationUpdateNormal",
        "ApplicationUpdateProgress": 100
      }
    ],
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

DescribeApplicationVersion

Last updated : 2024-11-27 14:37:40

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to query the version information of a cloud application.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeApplicationVersion.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application version ID.

3. Output Parameters

Parameter Name	Type	Description
Versions	Array of	List of application versions.

	UserApplicationVersion	
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying Cloud Application Version Information

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeApplicationVersion
<Common request parameters>
```

```
{
  "ApplicationId": "app-xlgehac"
}
```

Output Example

```
{
  "Response": {
    "Versions": [
      {
        "ApplicationVersionId": "ver-uechqlx",
        "ApplicationVersionSize": 1024,
        "ApplicationVersionStatus": "Inuse",
        "ApplicationVersionName": "xxx",
        "ApplicationVersionRegions": [
          "ap-chinese-mainland",
          "na-north-america-fusion"
        ],
        "ApplicationVersionUpdateMode": "FULL",
        "CreateTime": "2021-08-29T08:00:30Z"
      }
    ],
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation.ApplicationNotFound	Application does not exist.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

DescribeCosCredential

Last updated : 2024-11-27 14:37:39

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to query COS key information.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeCosCredential.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
ApplicationFileName	No	String	Application file name (the file must be a compressed package with a zip/rar/7z file name extension).

3. Output Parameters

Parameter Name	Type	Description

SecretID	String	Cos SecretID
SecretKey	String	Cos SecretKey
SessionToken	String	Cos SessionToken
CosBucket	String	Cos Bucket
CosRegion	String	Cos Region
Path	String	COS operation path.
StartTime	Integer	Start time of the COS key.
ExpiredTime	Integer	Expiration time of the COS key.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying COS Key Information

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCosCredential
<Common request parameters>
```

```
{
  "ApplicationId": "app-fcegekdfa",
  "ApplicationFileName": "xxx.rar"
}
```

Output Example

```
{
  "Response": {
    "SecretID": "xxx",
    "SecretKey": "xxx",
```

```
"SessionToken": "xxx",
"CosBucket": "examplebucket-1250000000",
"CosRegion": "ap-guangzhou",
"Path": "103121832/app-fcegekdfa/ver-xxx/app-fcegekdfa.rar",
"StartTime": 1500000,
"ExpiredTime": 1000000,
"RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
}
```

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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
FailedOperation.ApplicationLockFail	Application lock failed.

FailedOperation.ApplicationNotFound	Application does not exist.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
OperationDenied	Operation denied.

ModifyApplicationBaseInfo

Last updated : 2024-11-27 14:37:39

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to modify basic information of a cloud application.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyApplicationBaseInfo.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
ApplicationExePath	Yes	String	Application program execution path.
ApplicationInterList	Yes	String	Application process list.
ApplicationBaseInfo	Yes	ApplicationBaseInfo	Application basic data.
ApplicationParams	No	String	Application startup parameters.

ApplicationName	No	String	Application name.
ApplicationStores.N	No	Array of UserApplicationStore	Application repository information list.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying Basic Information of a Cloud Application

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyApplicationBaseInfo
<Common request parameters>

{
  "ApplicationId": "app-lxfdfwf",
  "ApplicationName": "testname",
  "ApplicationExePath": "App/bin/test.exe",
  "ApplicationInterList": "test.exe|xxx.exe",
  "ApplicationParams": "-b -param",
  "ApplicationBaseInfo": {
    "WindowUseType": "ApplicationDesktop",
    "WindowName": "xxx",
    "WindowClassName": "xxx",
    "WindowCaptureMode": ""
  },
  "ApplicationStores": [
    {
```

```
"CosBucket": "bucket-123456",
"CosRegion": "ap-guangzhou",
"StoreType": "ARCHIVE",
"StoreState": "OFF",
"StorePath": "xxx"
},
{
"CosBucket": "bucket-123456",
"CosRegion": "ap-guangzhou",
"StoreType": "LOG",
"StoreState": "ON",
"StorePath": "xxx"
}
]
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation.ApplicationNotFound	Application does not exist.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

ModifyApplicationVersion

Last updated : 2024-11-27 14:37:38

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to modify the version information of a cloud application.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyApplicationVersion.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
ApplicationVersionId	Yes	String	Application version ID.
ApplicationVersionName	No	String	Application version name.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying a Cloud Application Version

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyApplicationVersion
<Common request parameters>
```

```
{
  "ApplicationId": "app-dgxeqlc",
  "ApplicationVersionId": "ver-hert4hq",
  "ApplicationVersionName": "xxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "e460bae7-9ce3-4499-9930-7cc48a7ffac9"
  }
}
```

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 Node.js](#)
- [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.ApplicationLockFail	Application lock failed.
FailedOperation.ApplicationNotFound	Application does not exist.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
OperationDenied	Operation denied.

SetApplicationVersionOnline

Last updated : 2024-11-27 14:37:37

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to launch an application version.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: SetApplicationVersionOnline.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
ApplicationVersionId	Yes	String	Application version ID.

3. Output Parameters

Parameter Name	Type	Description

Versions	Array of UserApplicationVersion	List of application versions.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Launching a Cloud Application Version

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: SetApplicationVersionOnline
<Common request parameters>

{
  "ApplicationId": "app-glheghe",
  "ApplicationVersionId": "ver-cebgkd"
}
```

Output Example

```
{
  "Response": {
    "Versions": [
      {
        "ApplicationVersionId": "ver-cebgkd",
        "ApplicationVersionSize": 1024,
        "ApplicationVersionStatus": "Inuse",
        "ApplicationVersionName": "xxx",
        "CreateTime": "2020-09-22T00:00:00+00:00",
        "ApplicationVersionRegions": [
          "ap-tokyo"
        ]
      },
      {
        "ApplicationVersionId": "ver-grshefa",
```

```
"ApplicationVersionSize": 2048,
"ApplicationVersionStatus": "Usable",
"ApplicationVersionName": "xxx",
"CreateTime": "2020-09-22T00:00:00+00:00",
"ApplicationVersionRegions": [
  "ap-tokyo"
]
},
"RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
}
```

5. Developer Resources

SDK

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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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.

FailedOperation.ApplicationLockFail	Application lock failed.
FailedOperation.ApplicationNotFound	Application does not exist.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
OperationDenied	Operation denied.

DescribeApplicationFileInfo

Last updated : 2024-11-27 14:37:42

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to query application file information.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeApplicationFileInfo.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
FilePathList.N	No	Array of String	Application file path list.

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
FileInfoList	Array of UserApplicationFileInfo	Application file data list. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying Application File Information

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeApplicationFileInfo
<Common request parameters>

{
  "ApplicationId": "app-dafe32hr",
  "FilePathList": [
    "xxx/file1.exe"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022",
    "FileInfoList": [
      {
        "FilePath": "xxx/file1.exe",
        "FileState": "EXIST"
      }
    ]
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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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 Node.js](#)
- [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.ApplicationNotFound	Application does not exist.
InvalidParameter	Parameter error.

ModifyMobileApplicationInfo

Last updated : 2024-11-27 14:37:38

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to modify the mobile application data.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyMobileApplicationInfo.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ApplicationId	Yes	String	Application ID.
ApplicationName	Yes	String	Application name.

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
-----------	--------	---

4. Example

Example1 Modifying Mobile Application Information

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyMobileApplicationInfo
<Common request parameters>
```

```
{
  "ApplicationId": "app-a1b2c3",
  "ApplicationName": "testname"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

5. Developer Resources

SDK

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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 Node.js](#)
- [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
AuthFailure	CAM signature/authentication error.
FailedOperation.ApplicationLockFail	Application lock failed.
FailedOperation.ApplicationNotFound	Application does not exist.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

Project Management APIs

CreateApplicationProject

Last updated : 2024-11-27 14:37:34

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to create a cloud application project.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateApplicationProject.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
Name	Yes	String	Project name, which is user-defined.
ApplicationId	Yes	String	Bound application ID.
Type	Yes	String	Concurrency type required for project operation.S1: concurrency for rendering small cloud applications.M1: concurrency for rendering medium cloud

			applications.L1: concurrency for rendering large cloud applications.L2: concurrency for rendering large cloud applications.XL2: concurrency for rendering extra large cloud applications.MM1_HD: concurrency for performance-based cloud ARM (HD).MM1_FHD: concurrency for performance-based cloud ARM (FHD).
IsPreload	No	Boolean	Whether to enable warm-up. The default value is false.
ApplicationParams	No	String	Application startup parameters.
Resolution	No	String	Resolution, in the format of widthxheight, such as 1920x1080.
ProjectType	No	String	Project type.SHARED: shared by all applications.EXCLUSIVE (default value): dedicated for one application.
FPS	No	Integer	Frame rate.
PreloadDuration	No	String	Waiting time for application pre-launch.
ReconnectTimeout	No	String	Waiting time for reconnection.
MinBitrate	No	Integer	Minimum bitrate, in Mbps.
MaxBitrate	No	Integer	Maximum bitrate, in Mbps.
UpstreamAudioOption	No	String	Upstream audio options.DisableMixIntoStreamPush: not mixing upstream audio in streaming.
VideoEncodeConfig	No	VideoEncodeConfig	Video encoding configuration.
XRMaxWidth	No	Integer	Upper limit of the XR application resolution.If the project concurrency type is L or L2, the upper limit is 5000; if the project concurrency type is XL2, the upper limit is 6000.
BackgroundImageCOSFileId	No	String	ID of the background image COS file.
ProjectCategory	No	String	Project category.DESKTOP: desktop (default value).MOBILE: mobile.

DisableVideoCodecs.N	No	Array of String	Disabled code list.
----------------------	----	-----------------	---------------------

3. Output Parameters

Parameter Name	Type	Description
ProjectId	String	Generated project ID.Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating a Cloud Application Project

This example shows you how to create a cloud application project.

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateApplicationProject
<Common request parameters>
```

```
{
  "Name": "abc",
  "ApplicationId": "abc",
  "Type": "abc",
  "IsPreload": true,
  "ApplicationParams": "abc",
  "Resolution": "abc",
  "ProjectType": "abc",
  "FPS": 0,
  "PreloadDuration": "10s",
  "ReconnectTimeout": "20s",
  "MinBitrate": 0,
```

```
"MaxBitrate": 10,  
"DisableVideoCodecs": []  
}
```

Output Example

```
{  
  "Response": {  
    "ProjectId": "abc",  
    "RequestId": "abc"  
  }  
}
```

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 Node.js](#)
- [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	Operation failed.

DeleteApplicationProjects

Last updated : 2024-11-27 14:37:33

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to delete cloud application projects in batches.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteApplicationProjects.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ProjectIds.N	Yes	Array of String	ID list of cloud application projects.

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
-----------	--------	---

4. Example

Example1 Deleting Cloud Application Projects in Batches

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteApplicationProjects
<Common request parameters>
```

```
{
  "ProjectIds": [
    "cap-xxxx"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

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 Node.js](#)
- [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

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

DescribeApplicationProjects

Last updated : 2024-11-27 14:37:32

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to obtain the cloud application project list.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeApplicationProjects.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	No	Integer	Subscript.
Limit	No	Integer	Number of entries per page.
Filters.N	No	Array of Filter	Filter.
ProjectCategory	No	String	Project category.DESKTOP: desktop (default value).MOBILE: mobile.

3. Output Parameters

Parameter Name	Type	Description
Projects	Array of ApplicationProject	Project list.Note: This field may return null, indicating that no valid values can be obtained.
Total	Integer	Total number. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Obtaining the Cloud Application Project List

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeApplicationProjects
<Common request parameters>
```

```
{}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc",
    "Projects": [
      {
        "IsPreload": true,
        "Description": "app",
```

```
"ProjectId": "cap-a1b2c3",
"ApplicationStatus": "NoConcurrent",
"ApplicationName": "abc",
"Resolution": "1920x1080",
"ProjectType": "SHARED",
"Purpose": "EXPERIENCE",
"Amount": 0,
"CreateTime": "2020-09-22T00:00:00+00:00",
"Using": 0,
"ApplicationId": "app-a1b2c3",
"Type": "XL2",
"ApplicationParams": "",
"Name": "",
"ApplicationRegions": [
  "ap-chinese-mainland",
  "na-north-america-fusion"
],
"ConcurrentRegions": [
  "ap-chinese-mainland",
  "na-north-america-fusion"
]
},
"Total": 0
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [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	Operation failed.

DescribeConcurrentCount

Last updated : 2024-11-27 14:37:32

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to obtain the concurrency count.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeConcurrentCount.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ProjectId	No	String	Project ID.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of concurrencies.

Running	Integer	The number of concurrent executions, including all non-idle concurrent executions such as those in prelaunch, connected, waiting for reconnection, and to be cleaned up or recovered. Therefore, refreshing projects or disconnecting user connections with concurrency packages will affect this value.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Obtaining the Concurrency Count

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeConcurrentCount
<Common request parameters>
```

```
{
  "ProjectId": "cap-abcdefgh"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022",
    "Total": 10,
    "Running": 6
  }
}
```

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 Node.js](#)
- [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

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

ModifyApplicationProject

Last updated : 2024-11-27 14:37:32

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to modify a cloud application project.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyApplicationProject.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ProjectId	Yes	String	Project ID returned by cloud.
Name	No	String	Project name.
Type	No	String	Concurrency type required for project operation.
IsPreload	No	Boolean	Whether to Enable Pre-launch.
ApplicationParams	No	String	Application startup parameters.

Description	No	String	Cloud application project description.
Resolution	No	String	Resolution, in the format of widthxheight, such as 1920x1080.
FPS	No	Integer	Frame rate.
PreloadDuration	No	String	Waiting time for pre-launch.
ReconnectTimeout	No	String	Waiting time for reconnection.
MinBitrate	No	Integer	Minimum bitrate, in Mbps.
MaxBitrate	No	Integer	Maximum bitrate, in Mbps.
UpstreamAudioOption	No	String	Upstream audio options.DisableMixIntoStreamPush: not mixing upstream audio in streaming.
VideoEncodeConfig	No	VideoEncodeConfig	Video encoding configuration.
XRMaxWidth	No	Integer	Upper limit of the XR application resolution.If the project concurrency type is L or L2, the upper limit is 5000; if the project concurrency type is XL2, the upper limit is 6000.
BackgroundImageCOSFileId	No	String	ID of the background image COS file.
DisableVideoCodecs.N	No	Array of String	Disabled code list.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying a Cloud Application Project

This example shows you how to modify a cloud application project.

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyApplicationProject
<Common request parameters>
```

```
{
  "IsPreload": true,
  "ProjectId": "abc",
  "ApplicationParams": "abc",
  "Name": "abc",
  "Type": "L1",
  "FPS": 0,
  "PreloadDuration": "10s",
  "ReconnectTimeout": "20s",
  "MinBitrate": 0,
  "MaxBitrate": 10,
  "DisableVideoCodecs": [
    "H265"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

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 Node.js](#)
- [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	Operation failed.

DescribeApplicationProjectAdvancedConfig

Last updated : 2024-11-27 14:37:33

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to obtain the advanced configuration information of a cloud application project.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeApplicationProjectAdvancedConfig.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ProjectId	Yes	String	Application project ID.

3. Output Parameters

Parameter Name	Type	Description
ApplicationParams	String	Application startup parameters.

		Note: This field may return null, indicating that no valid values can be obtained.
Resolution	String	Resolution, in the format of widthxheight, such as 1920x1080.Note: This field may return null, indicating that no valid values can be obtained.
FPS	Integer	Frame rate. Valid values: 0, 30, 60.Note: This field may return null, indicating that no valid values can be obtained.
MinBitrate	Integer	Minimum bitrate, in Mbps.Note: This field may return null, indicating that no valid values can be obtained.
MaxBitrate	Integer	Maximum bitrate, in Mbps.Note: This field may return null, indicating that no valid values can be obtained.
PreloadDuration	String	Waiting time for application pre-launch.Note: This field may return null, indicating that no valid values can be obtained.
ReconnectTimeout	String	Waiting time for reconnection.Note: This field may return null, indicating that no valid values can be obtained.
UpstreamAudioOption	String	Upstream audio options.DisableMixIntoStreamPush: not mixing upstream audio in streaming.Note: This field may return null, indicating that no valid values can be obtained.
VideoEncodeConfig	VideoEncodeConfig	Video encoding configuration.Note: This field may return null, indicating that no valid values can be obtained.
XRMaxWidth	Integer	Upper limit of the XR application resolution.If the project concurrency type is L or L2, the upper limit is 5000; if the project concurrency type is XL2, the upper limit is 6000.Note: This field may return null, indicating that no valid values can be obtained.
BackgroundImage	BackgroundImage	Background image information.Note: This field may return null, indicating that no valid values can be obtained.
DisableVideoCodecs	Array of String	Disabled code list.Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Obtaining the Advanced Configuration Data of a Cloud Application Project

This example shows you how to obtain advanced configuration parameters of a cloud application.

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeApplicationProjectAdvancedConfig
<Common request parameters>

{
  "ProjectId": "abc"
}
```

Output Example

```
{
  "Response": {
    "ApplicationParams": "abc",
    "Resolution": "abc",
    "FPS": 0,
    "MinBitrate": 0,
    "MaxBitrate": 0,
    "PreloadDuration": "10s",
    "ReconnectTimeout": "10s",
    "DisableVideoCodecs": [
      "H265"
    ],
    "RequestId": "abc"
  }
}
```

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 Node.js](#)
- [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	Operation failed.

Concurrency Management APIs

DescribeConcurrentPackages

Last updated : 2024-11-27 14:37:36

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to obtain the cloud application concurrency pack list.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeConcurrentPackages.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	No	Integer	Subscript.
Limit	No	Integer	Number of entries per page.
Filters.N	No	Array of Filter	Filter List

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number. Note: This field may return null, indicating that no valid values can be obtained.
ConcurrentPackages	Array of ApplicationConcurrentPackage	Concurrency pack list.Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Obtaining the Cloud Application Concurrency Pack List

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeConcurrentPackages
<Common request parameters>
```

```
{
  "Limit": 0,
  "Filters": [
    {
      "Values": [
        "xx"
      ],
      "Name": "xx"
    }
  ],
}
```

```
"Offset": 0
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx",
    "Total": 0,
    "ConcurrentPackages": []
  }
}
```

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 Node.js](#)
- [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	Operation failed.

BindConcurrentPackagesToProject

Last updated : 2024-11-27 14:37:37

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to bind a concurrency pack to a project.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: BindConcurrentPackagesToProject.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ConcurrentIds.N	Yes	Array of String	Concurrency pack ID list.
ProjectId	Yes	String	Cloud application project ID.

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Binding a Concurrency Pack to a Project

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: BindConcurrentPackagesToProject
<Common request parameters>

{
  "ConcurrentIds": [
    "abc"
  ],
  "ProjectId": "abc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

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 Node.js](#)
- [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

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

ModifyConcurrentPackage

Last updated : 2024-11-27 14:37:35

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to modify a cloud application concurrency pack.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyConcurrentPackage.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ConcurrentId	Yes	String	Concurrency pack ID.
Name	Yes	String	Concurrency pack name.

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
-----------	--------	---

4. Example

Example1 Modifying a Cloud Application Concurrency Pack

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyConcurrentPackage
<Common request parameters>
```

```
{
  "ConcurrentId": "abc",
  "Name": "abc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

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 Node.js](#)
- [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

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

ResetConcurrentPackages

Last updated : 2024-11-27 14:37:35

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to reset a concurrency pack and disconnect all user connections.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ResetConcurrentPackages.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ConcurrentPackagelds.N	Yes	Array of String	Concurrency pack ID array.

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
-----------	--------	---

4. Example

Example1 Resetting a Concurrency Pack

This example shows you how to reset a concurrency pack and disconnect all user connections.

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ResetConcurrentPackages
<Common request parameters>
```

```
{
  "ConcurrentPackageIds": [
    "cac-1234abcd"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

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 Node.js](#)
- [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	Operation failed.

UnbindConcurrentPackagesFromProject

Last updated : 2024-11-27 14:37:34

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to unbind a concurrency pack from a project.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UnbindConcurrentPackagesFromProject.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
ConcurrentIds.N	Yes	Array of String	Concurrency pack ID list.
ProjectId	No	String	Cloud application project ID.

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Unbinding a Concurrency Pack from a Project

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UnbindConcurrentPackagesFromProject
<Common request parameters>

{
  "ProjectId": "abc",
  "ConcurrentIds": [
    "abc"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

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 Node.js](#)
- [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	Operation failed.

DescribeConcurrentSummary

Last updated : 2024-11-27 14:37:36

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to query the concurrency overview.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeConcurrentSummary.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
PrepaidConcurrentTotal	Integer	Total number of prepaid (monthly subscription) concurrencies.
HourlyRemainDuration	String	Remaining duration of an hourly package.

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.
-----------	--------	---

4. Example

Example1 Querying the Concurrency Overview

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeConcurrentSummary
<Common request parameters>
```

```
{}
```

Output Example

```
{
  "Response": {
    "PrepaidConcurrentTotal": 100,
    "HourlyRemainDuration": "100h0m0s",
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

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 Node.js](#)
- [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

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

Stream Push Service APIs

StopPublishStream

Last updated : 2024-11-27 14:37:30

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to stop pushing streams.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StopPublishStream.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
UserId	Yes	String	Unique user ID, which is customized by you and is not parsed by CAR. Based on your needs, you can either define unique IDs for users or use timestamps to generate random IDs. Make sure the same ID is used when a user reconnects to your application.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Stopping Pushing Streams

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StopPublishStream
<Common request parameters>

{
  "UserId": "abc123"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

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 Node.js](#)
- [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	Operation failed.
InternalServerError	Internal error.
InvalidParameter	Parameter error.
InvalidParameter.JsonParseError	JSON parsing error.
OperationDenied	Operation denied.
ResourceNotFound.SessionNotFound	Unable to find the session.

StartPublishStream

Last updated : 2024-11-27 14:37:31

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to start pushing your cloud application's video streams in real time to CSS. The codec for the streaming is automatically selected based on the client's (SDK) capabilities, with a default order of H.265, H.264, VP8, and VP9.

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StartPublishStream.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
UserId	Yes	String	Unique user ID, which is customized by you and is not parsed by CAR. It will be used as the <code>StreamId</code> for streaming. For example, if the bound streaming domain is abc.livepush.myqcloud.com , the streaming address will be rtmp://abc.livepush.myqcloud.com/live/UserId?txSecret=xxx&txTime=xxx .
PublishStreamArgs	No	String	Streaming parameter, which is a custom parameter carried during streaming.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Starting Pushing Streams

This example shows you how to start pushing streams.

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartPublishStream
<Common request parameters>

{
  "UserId": "abc123"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4eb17e58-68da-4e9a-b298-0894723c9022"
  }
}
```

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 Node.js](#)
- [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	Operation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
InvalidParameter.JsonParseError	JSON parsing error.
OperationDenied	Operation denied.
ResourceNotFound.SessionNotFound	Unable to find the session.

StartPublishStreamWithURL

Last updated : 2024-11-27 14:37:31

1. API Description

Domain name for API request: car.intl.tencentcloudapi.com.

This API is used to start pushing your cloud application's video streams to a specified URL. The codec for the streaming is automatically selected based on the client's (SDK) capabilities, with a default order of H.265, H.264, VP8, and VP9. This streaming method will be billed separately. For details about the billing method, see [Charging for Streaming to Specified URL](#).

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](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StartPublishStreamWithURL.
Version	Yes	String	Common Params . The value used for this API: 2022-01-10.
Region	No	String	Common Params . This parameter is not required for this API.
UserId	Yes	String	Unique user ID, which is customized by you and is not parsed by CAR.
PublishStreamURL	Yes	String	Streaming address. Only RTMP is supported for streaming currently.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Starting Pushing Streams to the Specified URL

This example shows you how to start pushing your cloud application's video streams to a specified URL

Input Example

```
POST / HTTP/1.1
Host: car.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: StartPublishStreamWithURL
<Common request parameters>

{
  "UserId": "abc",
  "PublishStreamURL": "abc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

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 Node.js](#)
- [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	Operation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
InvalidParameter.JsonParseError	JSON parsing error.
OperationDenied	Operation denied.
ResourceNotFound.SessionNotFound	Unable to find the session.

Data Types

Last updated : 2024-09-14 10:44:47

ApplicationBaseInfo

Application basic data.

Used by actions: DescribeApplicationList, ModifyApplicationBaseInfo.

Name	Type	Required	Description
WindowUseType	String	Yes	Application window usage mode (ApplicationDesktop: Captures the entire desktop; ApplicationWindow: Captures only the application window).
WindowName	String	No	Application window name.
WindowClassName	String	No	Application window class name.
WindowCaptureMode	String	No	Application window capture mode (HOOK: default mode; DDA_CUT: compatible mode).

ApplicationConcurrentPackage

Cloud application concurrency packs.

Used by actions: DescribeConcurrentPackages.

Name	Type	Required	Description
------	------	----------	-------------

ApplicationProject

Cloud application project type.

Used by actions: DescribeApplicationProjects.

Name	Type	Required	Description
ProjectId	String	No	Project ID.Note: This field may return null, indicating that no valid values can be obtained.

Name	String	No	Project name.Note: This field may return null, indicating that no valid values can be obtained.
Description	String	No	Project description.Note: This field may return null, indicating that no valid values can be obtained.
Type	String	No	Concurrency type required for project operation.S1: concurrency for rendering small cloud applications.M1: concurrency for rendering medium cloud applications.L1: concurrency for rendering large cloud applications.L2: concurrency for rendering large cloud applications.XL2: concurrency for rendering extra large cloud applications.MM1_HD: concurrency for performance-based cloud ARM (HD).MM1_FHD: concurrency for performance-based cloud ARM (FHD).Note: This field may return null, indicating that no valid values can be obtained.
ApplicationId	String	No	Cloud application ID.Note: This field may return null, indicating that no valid values can be obtained.
IsPreload	Boolean	No	Pre-launch.Note: This field may return null, indicating that no valid values can be obtained.
Amount	Integer	No	Number of concurrencies already configured.Note: This field may return null, indicating that no valid values can be obtained.
Using	Integer	No	Number of concurrencies in use.Note: This field may return null, indicating that no valid values can be obtained.
ApplicationStatus	String	No	Application status. NoConcurrent: no concurrency pack configured; Online: activated. Cloud application status: applicationCreating: creating; applicationCreateFail: creation failed; applicationDeleting: deleting; applicationNoConfigured: startup parameters not configured.Note: This field may return null, indicating that no valid values can be obtained.
ApplicationParams	String	No	Application startup parameters. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	No	Creation time. Note: This field may return null, indicating that no valid values can be obtained.
ApplicationName	String	No	Application name.

			Note: This field may return null, indicating that no valid values can be obtained.
Resolution	String	No	Resolution, in the format of widthxheight, such as 1920x1080.Note: This field may return null, indicating that no valid values can be obtained.
ProjectType	String	No	Project type.SHARED: shared by all applications.EXCLUSIVE (default value): dedicated for one application.Note: This field may return null, indicating that no valid values can be obtained.
Purpose	String	No	Purpose.EXPERIENCE: Experience.Note: This field may return null, indicating that no valid values can be obtained.
ApplicationRegions	Array of String	No	Application distribution area. Standard areas are as follows. ap-chinese-mainland: Chinese mainland; na-north-america: North America; eu-frankfurt: Frankfurt; ap-mumbai: Mumbai; ap-tokyo: Tokyo; ap-seoul: Seoul; ap-singapore: Singapore; ap-bangkok: Bangkok; ap-hongkong: Hong Kong (China). Fusion areas are as follows. me-middle-east-fusion: Middle East; na-north-america-fusion: North America; sa-south-america-fusion: South America; ap-tokyo-fusion: Tokyo; ap-seoul-fusion: Seoul; eu-frankfurt-fusion: Frankfurt; ap-singapore-fusion: Singapore; ap-hongkong-fusion: Hong Kong (China).Note: This field may return null, indicating that no valid values can be obtained.
ConcurrentRegions	Array of String	No	Concurrency area. Standard areas are as follows. ap-chinese-mainland: Chinese mainland; na-north-america: North America; eu-frankfurt: Frankfurt; ap-mumbai: Mumbai; ap-tokyo: Tokyo; ap-seoul: Seoul; ap-singapore: Singapore; ap-bangkok: Bangkok; ap-hongkong: Hong Kong (China). Fusion areas are as follows. me-middle-east-fusion: Middle East; na-north-america-fusion: North America; sa-south-america-fusion: South America; ap-tokyo-fusion: Tokyo; ap-seoul-fusion: Seoul; eu-frankfurt-fusion: Frankfurt; ap-singapore-fusion: Singapore; ap-hongkong-fusion: Hong Kong (China).Note: This field may return null, indicating that no valid values can be obtained.
ProjectCategory	String	No	Project category.DESKTOP: desktop (default value).MOBILE: mobile.Note: This field may return null, indicating that no valid values can be obtained.

BackgroundImage

Background image information.

Used by actions: DescribeApplicationProjectAdvancedConfig.

Name	Type	Required	Description
COSFileId	String	No	ID of the COS file.Note: This field may return null, indicating that no valid values can be obtained.
URL	String	No	Download URL.Note: This field may return null, indicating that no valid values can be obtained.
Name	String	No	Name Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	No	Creation time. Note: This field may return null, indicating that no valid values can be obtained.

Filter

Query filter criteria.

Used by actions: DescribeApplicationList, DescribeApplicationProjects, DescribeConcurrentPackages.

Name	Type	Required	Description
Name	String	Yes	Filter field name (ApplicationId: application ID; ApplicationName: application name; ApplicationRunStatus: running status; ApplicationUpdateStatus: update status).
Values	Array of String	Yes	Filter value set (When the filter name is ApplicationRunStatus, the values can be [ApplicationDeleting: application deletion in progress; ApplicationCreateFail: application creation failed; ApplicationCreating: application creation in progress; ApplicationRunning: normal running; ApplicationNoConfigured: main execution program path not configured]. When the filter name is ApplicationUpdateStatus, the values can be [ApplicationUpdateCreating: version creation in progress; ApplicationUpdateCreateFail: version creation failed;

			ApplicationUpdateNoReleased: version to be released; ApplicationUpdateReleased: version release completed; ApplicationUpdateNormal: none)).
--	--	--	---

UserApplicationFileInfo

Application file information.

Used by actions: DescribeApplicationFileInfo.

Name	Type	Description
FilePath	String	Application file path. Note: This field may return null, indicating that no valid values can be obtained.
FileState	String	File status. NO_EXIST: The file does not exist; EXIST: The file exists. Note: This field may return null, indicating that no valid values can be obtained.

UserApplicationInfo

Application data information.

Used by actions: DescribeApplicationList.

Name	Type	Description
ApplicationId	String	Application ID.
ApplicationName	String	Application name.
ApplicationType	String	Application type (cloud 3D: Application3D; cloud XR: ApplicationXR; cloud Web: ApplicationWeb).
ApplicationExePath	String	Application program execution path.
ApplicationInterList	String	Application process list.
ApplicationParams	String	Application startup parameters.
ApplicationRunStatus	String	Application running status (ApplicationDeleting: application deletion in progress; ApplicationCreateFail: application creation failed; ApplicationCreating: application creation in progress; ApplicationRunning: normal running;

		ApplicationNoConfigured: main execution program path not configured).
ApplicationUpdateStatus	String	Application update status (ApplicationUpdateCreating: version creation in progress; ApplicationUpdateCreateFail: version creation failed; ApplicationUpdateNoReleased: version to be released; ApplicationUpdateReleased: version release completed; ApplicationUpdateNormal: none).
ApplicationCreateTime	Timestamp ISO8601	Application creation time.
ApplicationVersions	Array of UserApplicationVersion	List of application versions.
ApplicationBaseInfo	ApplicationBaseInfo	Application basic data.
ApplicationUpdateProgress	Integer	Application update progress.
ApplicationNature	String	Application nature (PUBLIC: public application; PRIVATE: user application).
ApplicationStores	Array of UserApplicationStore	Application repository list.

UserApplicationStatus

Application status information.

Used by actions: DescribeApplicationStatus.

Name	Type	Description
ApplicationId	String	Application ID.
ApplicationRunStatus	String	Application running status (ApplicationDeleting: application deletion in progress; ApplicationCreateFail: application creation failed; ApplicationCreating: application creation in progress; ApplicationRunning: normal running; ApplicationNoConfigured: main execution program path not configured; ApplicationNoPackage: no available package).
ApplicationUpdateStatus	String	Application update status (ApplicationUpdateCreating: version creation in progress; ApplicationUpdateCreateFail: version creation failed; ApplicationUpdateNoReleased: version to be released;

		ApplicationUpdateReleased: version release completed; ApplicationUpdateNormal: none).
ApplicationUpdateProgress	Integer	Application update progress.

UserApplicationStore

Application repository information.

Used by actions: DescribeApplicationList, ModifyApplicationBaseInfo.

Name	Type	Required	Description
CosBucket	String	Yes	COS bucket name. Note: This field may return null, indicating that no valid values can be obtained.
CosRegion	String	Yes	COS bucket region. Note: This field may return null, indicating that no valid values can be obtained.
StoreType	String	Yes	Repository type. LOG: application logs; ARCHIVE: application archive. Note: This field may return null, indicating that no valid values can be obtained.
StoreState	String	Yes	Repository status. ON: enabled; OFF: disabled. Note: This field may return null, indicating that no valid values can be obtained.
StorePath	String	Yes	Repository path. Note: This field may return null, indicating that no valid values can be obtained.

UserApplicationVersion

Application version information.

Used by actions: CreateApplicationVersion, DescribeApplicationList, DescribeApplicationVersion, SetApplicationVersionOnline.

Name	Type	Description
ApplicationVersionId	String	Application version ID.

ApplicationVersionSize	Integer	Application version size.
ApplicationVersionStatus	String	Application version status (Uploading: uploading; Creating: in creation; CreateFailed: creation failed; Deleting: deleting; Inuse: current version; Normal: to be released; Usable: available).
ApplicationVersionName	String	Application version name.
CreateTime	Timestamp ISO8601	Application version creation time.
ApplicationVersionRegions	Array of String	Region for application version distribution (Standard zone: ap-chinese-mainland: Chinese mainland na-north-america: North America eu-frankfurt: Frankfurt ap-mumbai: Mumbai ap-tokyo: Tokyo ap-seoul: Seoul ap-singapore: Singapore ap-bangkok: Bangkok ap-hongkong: Hong Kong (China) Integration zone: me-middle-east-fusion: Middle East na-north-america-fusion: North America sa-south-america-fusion: South America ap-tokyo-fusion: Tokyo ap-seoul-fusion: Seoul eu-frankfurt-fusion: Frankfurt ap-singapore-fusion: Singapore ap-hongkong-fusion: Hong Kong (China)). Note: This field may return null, indicating that no valid values can be obtained.
ApplicationVersionUpdateMode	String	Application version update method. FULL: full update. INCREMENT: incremental update. Note: This field may return null, indicating that no valid values can be obtained.

UserMobileApplicationInfo

Mobile application data information.

Used by actions: DescribeApplicationList.

Name	Type	Description
ApplicationId	String	Application ID.
ApplicationName	String	Application name.
ApplicationType	String	Application type (cloud APK: application APK).
ApplicationRunStatus	String	Application running status (ApplicationRunning: normal running; ApplicationNoPackage: no available package).
ApplicationUpdateStatus	String	Application update status (ApplicationUpdateCreating: version creation in progress; ApplicationUpdateCreateFail: version creation failed; ApplicationUpdateNoReleased: version to be released; ApplicationUpdateReleased: version release completed; ApplicationUpdateNormal: none).
ApplicationCreateTime	Timestamp ISO8601	Application creation time.
ApplicationVersions	Array of UserApplicationVersion	List of application versions.
ApplicationNature	String	Application nature (PUBLIC: public application; PRIVATE: user application).

VideoEncodeConfig

Video encoding configuration.

Used by actions: CreateApplicationProject, DescribeApplicationProjectAdvancedConfig, ModifyApplicationProject.

Name	Type	Required	Description
StreamPushGOPSeconds	Integer	No	Streaming GOP length, in seconds.Note: This field may return null, indicating that no valid values can be obtained.

Error Codes

Last updated : 2024-09-02 19:06:17

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 signature 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.
InternalServerError	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
AuthFailure	CAM signature/authentication error.
FailedOperation.ApplicationCreateFail	Application creation failed.
FailedOperation.ApplicationLockFail	Application lock failed.
FailedOperation.ApplicationNotFound	Application does not exist.
FailedOperation.LockTimeout	Concurrency quota not requested or request timed out.
FailedOperation.PathNotFound	Failed to find the path.
FailedOperation.ProcessTimeout	Processing timed out.
FailedOperation.SlowDown	The request of the current <code>UserId</code> is being processed. Try again later.
FailedOperation.VersionLockFail	Version lock failed.

InvalidParameter.JsonParseError	JSON parsing error.
LimitExceeded.Role	[Multi-person Interaction] The number of persons corresponding to a role exceeds the limit.
OperationDenied	Operation denied.
OperationDenied.ApplicationLimitExceeded	The number of applications exceeds the limit.
OperationDenied.VersionCreating	Version is being created.
OperationDenied.VersionLimitExceeded	The number of versions exceeds the limit.
ResourceNotFound.Noldle	No available concurrency quota.
ResourceNotFound.SessionNotFound	Unable to find the session.
ResourceUnavailable.AccessFailed	Failed to access the concurrency instance.
ResourceUnavailable.Initialization	It is being initialized.
UnsupportedOperation.Stopping	The session is being terminated.