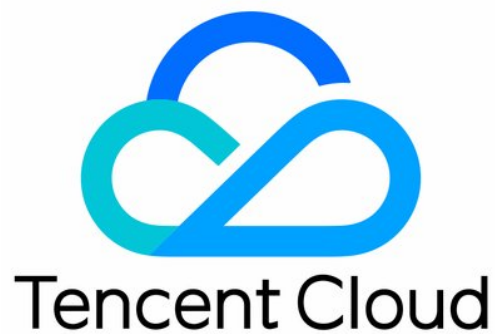


SSL Certificate Service

API Documentation

Product Documentation



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Contents

API Documentation

History

Introduction

API Category

Making API Requests

Request Structure

Common Params

Signature v3

Signature

Responses

Certificate APIs

CancelAuditCertificate

ApplyCertificate

CreateCertificate

DescribeHostUpdateRecord

DescribeHostUpdateRecordDetail

ModifyCertificateResubmit

UpdateCertificateInstance

UpdateCertificateRecordRetry

UpdateCertificateRecordRollback

CreateCertificateBindResourceSyncTask

DescribeCertificateBindResourceTaskDetail

DescribeCertificateBindResourceTaskResult

UploadConfirmLetter

DescribeHostTeoInstanceList

UploadCertificate

SubmitCertificateInformation

ReplaceCertificate

ModifyCertificateProject

ModifyCertificateAlias

DownloadCertificate

DescribeCertificates

DescribeCertificateOperateLogs

DescribeCertificateDetail

DescribeCertificate

DeleteCertificate

CommitCertificateInformation

CancelCertificateOrder

CSR APIs

BatchDeleteCSR

DescribeCSRSet

ModifyCSR

DescribeCSR

CreateCSR

Data Types

Error Codes

API Documentation

History

Last updated : 2024-07-30 17:02:34

Release 9

Release time: 2024-07-30 17:02:02

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ApplyCertificate](#)
 - New input parameters:DnsNames

Release 8

Release time: 2023-12-01 16:19:31

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeHostUpdateRecord](#)
- [DescribeHostUpdateRecordDetail](#)
- [UpdateCertificateInstance](#)
- [UpdateCertificateRecordRetry](#)
- [UpdateCertificateRecordRollback](#)

Modified APIs:

- [DescribeCertificateBindResourceTaskDetail](#)
 - New output parameters:TSE

New data structures:

- [GatewayCertificate](#)

- [ResourceTypeRegions](#)
- [SupportDownloadType](#)
- [TSEInstanceDetail](#)
- [TSEInstanceList](#)
- [UpdateRecordDetail](#)
- [UpdateRecordDetails](#)
- [UpdateRecordInfo](#)
- [UpdateSyncProgress](#)
- [UpdateSyncProgressRegion](#)

Modified data structures:

- [CertificateExtra](#)
 - New members: CompanyType
 - **Modified members:** SMCert
- [Certificates](#)
 - New members: HasRenewOrder, ReplaceOriCertIsDelete, IsExpiring, DVAuthDeadline, ValidationPassedTime, CertSANs, AwaitingValidationMsg, AllowDownload, IsDNSPODResolve, IsPackage, KeyPasswordCustomFlag, SupportDownloadType

Release 7

Release time: 2023-09-22 16:24:53

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeHostTeoInstanceList](#)

New data structures:

- [Filter](#)

Release 6

Release time: 2023-09-19 11:07:01

Release updates:

Improvement to existing documentation.

New APIs:

- [CancelAuditCertificate](#)
- [ModifyCertificateResubmit](#)

Modified data structures:

- [Certificates](#)
 - New members: HostingStatus, HostingCompleteTime, HostingRenewCertId

Release 5

Release time: 2023-09-08 17:49:33

Release updates:

Improvement to existing documentation.

New APIs:

- [BatchDeleteCSR](#)
- [CreateCSR](#)
- [CreateCertificateBindResourceSyncTask](#)
- [DescribeCSR](#)
- [DescribeCSRSet](#)
- [DescribeCertificateBindResourceTaskDetail](#)
- [DescribeCertificateBindResourceTaskResult](#)
- [ModifyCSR](#)

Modified APIs:

- [DescribeCertificate](#)
 - New output parameters: DvRevokeAuthDetail
- [DescribeCertificateDetail](#)
 - New output parameters: DvRevokeAuthDetail
- [DescribeCertificates](#)
 - New input parameters: Hostable
- [ReplaceCertificate](#)
 - New input parameters: CertCSREncryptAlgo, CertCSRKeyParameter
- [UploadCertificate](#)

- New input parameters:Tags

New data structures:

- [ApiGatewayInstanceDetail](#)
- [ApiGatewayInstanceList](#)
- [BindResourceRegionResult](#)
- [BindResourceResult](#)
- [CSRItem](#)
- [CdnInstanceDetail](#)
- [CdnInstanceList](#)
- [CertTaskId](#)
- [Certificate](#)
- [ClbInstanceDetail](#)
- [ClbInstanceList](#)
- [ClbListener](#)
- [ClbListenerRule](#)
- [DdosInstanceDetail](#)
- [DdosInstanceList](#)
- [Error](#)
- [LiveInstanceDetail](#)
- [LiveInstanceList](#)
- [SyncTaskBindResourceResult](#)
- [TCBAccessInstance](#)
- [TCBAccessService](#)
- [TCBEnvironment](#)
- [TCBEnvironments](#)
- [TCBHostInstance](#)
- [TCBHostService](#)
- [TCBInstanceList](#)
- [TeoInstanceDetail](#)
- [TeoInstanceList](#)
- [TkeIngressDetail](#)
- [TkeInstanceDetail](#)
- [TkeInstanceList](#)
- [TkeNameSpaceDetail](#)
- [TkeSecretDetail](#)
- [VODInstanceList](#)

- [VodInstanceDetail](#)
- [WafInstanceDetail](#)
- [WafInstanceList](#)

Release 4

Release time: 2023-07-06 14:50:47

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateCertificate](#)
- [UploadConfirmLetter](#)

Modified APIs:

- [CommitCertificateInformation](#)
 - New input parameters:VerifyType
- [DescribeCertificate](#)
 - New output parameters:CAEncryptAlgorithms, CACCommonNames, CAEndTimes

Release 3

Release time: 2023-03-28 15:09:35

Release updates:

Improvement to existing documentation.

Modified APIs:

- [UploadCertificate](#)
 - New input parameters:Repeatable
 - New output parameters:RepeatCertId

Modified data structures:

- [CertificateExtra](#)
 - New members:SMCert

Release 2

Release time: 2023-01-12 11:24:23

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ApplyCertificate](#)
 - New input parameters:PackageId, DeleteDnsAutoRecord
- [DescribeCertificateDetail](#)
 - New output parameters:RootCert, EncryptCert, EncryptPrivateKey, CertFingerprint, EncryptCertFingerprint, EncryptAlgorithm
- [DescribeCertificates](#)
 - New input parameters:Upload, Renew, FilterSource, IsSM, FilterExpiring

New data structures:

- [PreAuditInfo](#)
- [RootCertificates](#)

Modified data structures:

- [Certificates](#)
 - New members:IsIgnore, IsSM, EncryptAlgorithm, CAEncryptAlgorithms, CAEndTimes, CACCommonNames, PreAuditInfo, AutoRenewFlag

Existing Release

Release time: 2021-02-22 15:15:51

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [ApplyCertificate](#)
- [CancelCertificateOrder](#)
- [CommitCertificateInformation](#)
- [DeleteCertificate](#)

- [DescribeCertificate](#)
- [DescribeCertificateDetail](#)
- [DescribeCertificateOperateLogs](#)
- [DescribeCertificates](#)
- [DownloadCertificate](#)
- [ModifyCertificateAlias](#)
- [ModifyCertificateProject](#)
- [ReplaceCertificate](#)
- [SubmitCertificateInformation](#)
- [UploadCertificate](#)

Existing data structures:

- [CertificateExtra](#)
- [Certificates](#)
- [DvAuthDetail](#)
- [DvAuths](#)
- [OperationLog](#)
- [ProjectInfo](#)
- [SubmittedData](#)
- [Tags](#)

Introduction

Last updated : 2024-07-30 17:02:24

Overview

Tencent Cloud SSL Certificate Service is a one-stop solution for Secure Sockets Layer (SSL) certificates. Services provided include certificate application, management, and deployment. We work with leading digital certificate authorities (CAs) and agencies to bring this HTTPS solution to your website and mobile applications.

Note:

- All SSL Certificate Service APIs in this section have been upgraded to API 3.0 and all new SSL certificate features will be added here. We recommend you use API 3.0.
- The features of existing old APIs (such as v2017 or v2018-4-26) are retained, but they are no longer maintained.
- If you still need to use v2017 APIs, see [API Overview](#).
- If you still need to use v2018-4-26 APIs, see [API Overview](#).

Domain Validated (DV) SSL certificate

It credits the websites with medium trust level. The process for approval requires merely the website authenticity verification.

Organization Validated (OV) SSL certificate

It credits the websites with high trust level. The process for approval requires enterprise identity verification and rigid auditing to ensure a higher security.

Extended Validation (EV) SSL certificate

It credits the websites with the highest trust level. Typically, the users are banks, securities companies, and other financial institutions. It requires rigorous auditing to ensure the highest security. The address bar turns green after the deployment of EV SSL certificates.

API Category

Last updated : 2024-07-30 17:11:56

Certificate APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ApplyCertificate	Applies for a free certificate	10
CancelAuditCertificate	Cancels certificate review	20
CancelCertificateOrder	Cancels a certificate order	20
CommitCertificateInformation	Submits a certificate order	20
CreateCertificate	Purchases a certificate	20
DeleteCertificate	Deletes a certificate	20
DescribeCertificate	Gets certificate information	10
DescribeCertificateOperateLogs	Gets certificate operation logs	10
DescribeHostUpdateRecord	Query Certificate Cloud Resource Update Record List	10
DescribeHostUpdateRecordDetail	Query Certificate Cloud Resource Update Record Details List	10
DownloadCertificate	Downloads a certificate	20
ModifyCertificateAlias	Modifies a certificate alias	20
ModifyCertificateProject	Modifies the projects of multiple certificates	20
ModifyCertificateResubmit	Re-submits a certificate review application	20
ReplaceCertificate	Reissues a certificate	20
SubmitCertificateInformation	Submits certificate information	20

UpdateCertificateInstance	One-Click Update Old Certificate Resources	10
UpdateCertificateRecordRetry	Cloud Resource Update Deployment Retry Record	20
UpdateCertificateRecordRollback	Cloud Resource Update One-Click Rollback	20
UploadConfirmLetter	Uploads the confirmation letter for a certificate	20
CreateCertificateBindResourceSyncTask	Creates an async task for querying cloud resources associated with a certificate	20
DescribeCertificateBindResourceTaskDetail	Queries the result of a task querying cloud resources associated with a certificate (details of associated cloud resources are returned)	10
DescribeCertificateBindResourceTaskResult	Queries the result of a task querying cloud resources associated with a certificate (only the total number of associated cloud resources is returned)	10
DescribeCertificateDetail	Gets certificate details	10
DescribeCertificates	Gets the certificate list	20
DescribeHostTeoInstanceList	Queries the list of EDGEONE instances to which a certificate can be deployed	10
UploadCertificate	Uploads a certificate	20

u200cCSR APIs

API Name	Feature	Frequency Limit (maximum requests per second)
BatchDeleteCSR	Batch deletes CSRs	20
CreateCSR	Creates a CSR	20
DescribeCSR	Queries the details of a CSR	10
ModifyCSR	Modifies the information of a CSR	20

CSR APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeCSRSet	Queries the CSR list	10

Making API Requests

Request Structure

Last updated : 2024-07-30 17:02:25

1. Service Address

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

South Asia (Mumbai)	ssl.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	ssl.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	ssl.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	ssl.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	ssl.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	ssl.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	ssl.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

Last updated : 2024-07-30 17:02:26

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 related API 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 you work with belongs. For values supported for an API, see the description of parameter <code>Region</code> in the input parameters in related API documentation. This parameter is not required for some APIs (which will be indicated in related 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 is sent. For example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error may occur.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the common parameter <code>Version</code> in the API documentation. For example, the version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request/Region SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date is the UNIX timestamp in UTC time, and this value must match the value of X-TC-Timestamp (a co

			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencentcloud.com refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains 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. 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/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/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=AKIDEXAMPLE/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=AKIDEXAMPLE/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=37ac2f4fde00b0ac9bd9eadeb459b1bb224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

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

Example of an HTTP POST request structure:

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

```
Host: cvm.tencentcloudapi.com
```

```
Content-Type: application/x-www-form-urlencoded
```

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Signature v3

Last updated : 2024-07-30 17:02:29

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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



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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <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 = "Gu5t9xGARNpq86cd98joQYCN3*****"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

Field Name	Explanation
SecretKey	The original SecretKey, i.e., <code>Gu5t9xGARNpq86cd98joQYCN3*****</code> .
Date	The Date field information in <code>Credential</code> , such as <code>2019-02-25</code> 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>AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****</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>c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff</code> .

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

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

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

```
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

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

5. Signature Demo

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

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

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

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceId=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";
    private final static String CT_JSON = "application/json; charset=utf-8";

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

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

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

        // ***** Step 1: Concatenate the CanonicalRequest string *****
    }
```

```

String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

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

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

```



```

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

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).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 := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
    host := "cvm.tencentcloudapi.com"
    algorithm := "TC3-HMAC-SHA256"
    service := "cvm"
    version := "2017-03-12"
    action := "DescribeInstances"
    region := "ap-guangzhou"
    //var timestamp int64 = time.Now().Unix()
    var timestamp int64 = 1551113065

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

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

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

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

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

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

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

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:". $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 = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*****'

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

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

```

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

puts canonical_request

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

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

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

puts 'curl -X POST ' + endpoint \

```

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

DotNet

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

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

    public static byte[] HmacSHA256(byte[] key, byte[] msg)
    {
        using (HMACSHA256 mac = new HMACSHA256(key))
        {
            return mac.ComputeHash(msg);
        }
    }

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

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

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

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

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



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

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}

public static void Main(string[] args)
{
    // SecretID and SecretKey
    string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

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

    // The timestamp `2019-02-26 00:44:25` used here is only for reference. In a 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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
  const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

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

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

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

  const hashedRequestPayload = getHash(payload);
  const httpRequestMethod = "POST"
  const canonicalUri = "/"
  const canonicalQueryString = ""
  const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "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 OPENSSL_VERSION_NUMBER < 0x10100000L
    HMAC_CTX hmac;
    HMAC_CTX_init(&hmac);
    h = &hmac;
    #else
    h = HMAC_CTX_new();
    #endif

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

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

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

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

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

```
return output;
}

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

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

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

Last updated : 2024-07-30 17:02:31

Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.

The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the [TencentCloud API Key](#) page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the [TencentCloud API Key](#) page to apply for security credentials.

Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

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

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

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

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

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

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.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", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"); // 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), "Gu5t9xGARNpq86cd98joQYCN3*****", "HmacSHA1")); // Common parameter
    System.out.println(getUrl(params));
}
}
```

Python

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

```
# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time

import requests

secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"
```

```

def get_string_to_sign(method, endpoint, params):
    s = method + endpoint + "/"
    query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
    return s + query_str

def sign_str(key, s, method):
    hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
    return base64.b64encode(hmac_str)

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

```

Golang

```

package main

import (
    "bytes"
    "crypto/hmac"
    "crypto/sha1"
    "encoding/base64"
    "fmt"
    "sort"
)

func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"

```

```
params := map[string]string{
    "Nonce": "11886",
    "Timestamp": "1465185768",
    "Region": "ap-guangzhou",
    "SecretId": secretId,
    "Version": "2017-03-12",
    "Action": "DescribeInstances",
    "InstanceIds.0": "ins-09dx96dg",
    "Limit": "20",
    "Offset": "0",
}

var buf bytes.Buffer
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")

// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
    keys = append(keys, k)
}
sort.Strings(keys)

for i := range keys {
    k := keys[i]
    buf.WriteString(k)
    buf.WriteString("=")
    buf.WriteString(params[k])
    buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)

hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())

fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$params["Nonce"] = 11886; //rand();
```



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

ksort($param);

$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param as $key => $value ) {
    $signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);

$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
// $param["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'

secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
  'Action' => 'DescribeInstances',
  'InstanceIds.0' => 'ins-09dx96dg',
  'Limit' => 20,
```

```

'Nonce' => 11886,
'Offset' => 0,
'Region' => 'ap-guangzhou',
'SecretId' => secret_id,
'Timestamp' => 1465185768, # Time.now.to_i
'Version' => '2017-03-12',
}
sign = method + endpoint + '/'?
params = []
data.sort.each do |item|
  params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, 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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";
    double RequestTimestamp = 1465185768;
    // long timestamp = ToTimestamp() / 1000;
    // string requestTimestamp = timestamp.ToString();
    Dictionary<string, string> param = new Dictionary<string, string>();
    param.Add("Limit", "20");
    param.Add("Offset", "0");
    param.Add("InstanceIds.0", "ins-09dx96dg");
    param.Add("Action", action);
    param.Add("Nonce", "11886");
    // param.Add("Nonce", Math.Abs(new Random().Next()).ToString());

    param.Add("Timestamp", RequestTimestamp.ToString());
    param.Add("Version", version);

    param.Add("SecretId", SECRET_ID);
    param.Add("Region", region);
    SortedDictionary<string, string> headers = new SortedDictionary<string, string>(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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)

let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;

strParam = sort_params(params)

const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----")

params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
console.log("-----")

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


Responses

Last updated : 2024-07-30 17:02:32

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.

Certificate APIs

CancelAuditCertificate

Last updated : 2023-12-01 16:21:34

1. API Description

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

This API is used to cancel certificate review.

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: CancelAuditCertificate.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	The certificate ID.

3. Output Parameters

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

Result	Boolean	Whether the operation succeeded.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Canceling certificate review

Input Example

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

{
  "CertificateId": "abcdefg"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xxx-xxx-xxx-xxx",
    "Result": true
  }
}
```

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.CertificateNotFoundOrCantCancel	The certificate does not exist, or the review cannot be canceled.

ApplyCertificate

Last updated : 2024-07-30 17:02:34

1. API Description

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

This API is used to apply for a free certificate.

A maximum of 10 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: ApplyCertificate.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
DvAuthMethod	Yes	String	Validation type. <code>DNS_AUTO</code> : automatic DNS validation; <code>DNS</code> : manual DNS validation; <code>FILE</code> : file validation.
DomainName	Yes	String	Domain name
ProjectId	No	Integer	Project ID
PackageType	No	String	Certificate type. Currently, the only supported value is 2, which indicates TrustAsia TLS RSA CA.
ContactEmail	No	String	Email address

ContactPhone	No	String	Mobile number
ValidityPeriod	No	String	Validity period. The default value is 12 months, which is the only supported value currently.
CsrEncryptAlgo	No	String	Encryption algorithm. RSA and ECC are supported.
CsrKeyParameter	No	String	Key pair parameters. RSA supports only 2048. ECC supports only prime256v1. When the encryption algorithm is set to ECC, this parameter is mandatory.
CsrKeyPassword	No	String	CSR encryption password
Alias	No	String	Alias
OldCertificateId	No	String	Original certificate ID, which is used to apply for a new certificate.
Packageld	No	String	Benefit package ID, which is used to expand the free certificate package
DeleteDnsAutoRecord	No	Boolean	Whether to delete the automatic domain name verification record after issuance, which is no by default. This parameter can be passed in only for domain names of the DNS_AUTO verification type.
DnsNames.N	No	Array of String	

3. Output Parameters

Parameter Name	Type	Description
CertificateId	String	Certificate 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 Applying for a free certificate

This example shows you how to apply for a free certificate.

Input Example

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

{
  "DvAuthMethod": "DNS_AUTO",
  "DomainName": "wgc.red"
}
```

Output Example

```
{
  "Response": {
    "CertificateId": "a9TsmZkL",
    "RequestId": "0b39eaa4-f938-476d-9b26-19fb07b80936"
  }
}
```

5. Developer Resources

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- [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.AuthError	You do not have permission to perform this operation.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CannotBeDeletedIssued	Failed to delete the certificate because it has been issued.
FailedOperation.CannotBeDeletedWithinHour	Free certificates cannot be deleted within 1 hour after being applied for.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateMismatch	The certificate and the private key do not match.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.MainDomainCertificateCountLimit	The number of free certificates applied for under the primary domain name (%s) has reached the upper limit of %s. Please purchase a paid certificate.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.OrderAlreadyReplaced	This order has already been replaced.
FailedOperation.OrderReplaceFailed	Failed to reissue a certificate.
FailedOperation.PackageCountLimit	The remaining benefit points are insufficient.

FailedOperation.PackageExpired	The benefit package has expired.
FailedOperation.PackageNotFound	The benefit package does not exist.
InternalError	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.PackageIdsInvalid	The list of benefit point IDs is invalid.

CreateCertificate

Last updated : 2023-12-01 16:21:33

1. API Description

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

This API is used to purchase a certificate.

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: CreateCertificate.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
ProductId	Yes	Integer	Certificate product ID. 3 : SecureSite EV Pro; 4 : SecureSite EV; 5 : SecureSite OV Pro; 6 : SecureSite OV; 7 : SecureSite OV wildcard; 8 : GeoTrust EV; 9 : GeoTrust OV; 10 : GeoTrust OV wildcard; 11 : TrustAsia DV multi-domain; 12 : TrustAsia DV wildcard; 13 : TrustAsia OV wildcard D3; 14 : TrustAsia OV D3; 15 : TrustAsia OV multi-domain D3; 16 : TrustAsia EV D3; 17 : TrustAsia EV multi-domain D3; 18 : GlobalSign OV; 19 : GlobalSign OV wildcard; 20 : GlobalSign EV; 21 : TrustAsia OV wildcard multi-domain D3; 22 : GlobalSign OV multi-domain; 23 : GlobalSign OV wildcard multi-domain; 24 : GlobalSign EV multi-domain; 25 : WoTrus DV; 26 : WoTrus DV multi-domain; 27 :

			WoTrus DV wildcard; 28 : WoTrus OV; 29 : WoTrus OV multi-domain; 30 : WoTrus OV wildcard; 31 : WoTrus EV; 32 : WoTrus EV multi-domain; 33 : DNSPod SM2 DV; 34 : DNSPod SM2 DV multi-domain; 35 : DNSPod SM2 DV wildcard; 37 : DNSPod SM2 OV; 38 : DNSPod SM2 OV multi-domain; 39 : DNSPod SM2 OV wildcard; 40 : DNSPod SM2 EV; 41 : DNSPod SM2 EV multi-domain; 42 : TrustAsia DV wildcard multi-domain.
DomainNum	Yes	Integer	Number of domains associated with the certificate
TimeSpan	Yes	Integer	Certificate validity period. Currently, you can only purchase 1-year certificates.

3. Output Parameters

Parameter Name	Type	Description
CertificateIds	Array of String	List of certificate IDs
DealIds	Array of String	List of order IDs
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Purchasing a certificate

This example shows you how to purchase a certificate.

Input Example

```
https://ssl.tencentcloudapi.com/?Action=CreateCertificate
&ProductId=25
&DomainNum=1
&TimeSpan=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "CertificateIds": [
      "gf16kv3A"
    ],
    "DealIds": [
      "20200923877000003022941"
    ],
    "RequestId": "5a3d8310-3d7e-42d3-923a-b81407fe495e"
  }
}
```

5. Developer Resources

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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.AuthError	You do not have permission to perform this operation.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.

FailedOperation.InvalidParam	Incorrect parameters.
InternalError	Internal error.
InternalError.BackendResponseError	An error occurred with the backend service response.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter.

DescribeHostUpdateRecord

Last updated : 2023-12-01 16:21:31

1. API Description

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

Query certificate cloud resource update record list

A maximum of 10 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: DescribeHostUpdateRecord.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	No	Integer	Paging offset, starting from 0
Limit	No	Integer	Number per page, 10 by default.
CertificateId	No	String	New certificate ID
OldCertificateId	No	String	Old certificate ID

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total count Note: This field may return null, indicating that no valid value can be obtained.
DeployRecordList	Array of UpdateRecordInfo	Certificate deployment record list Note: This field may return null, indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Query Certificate Cloud Resource Update Record List

Query certificate cloud resource update record list

Input Example

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

{
  "OldCertificateId": "zYrIXwpu"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "DeployRecordList": [
      {
        "Id": 1,
        "CertId": "zXkBVP88",
        "OldCertId": "zYrIXwpu",
        "ResourceTypes": [
          "cdn"
        ],

```

```
"Status": 1,
"CreateTime": "2022-10-09 17:38:38",
"UpdateTime": "2022-10-09 19:21:35"
},
"RequestId": "111111111111"
}
```

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.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateNotAvailable	The certificate is not available. Please check and try again.
FailedOperation.CertificateNotFound	The certificate does not exist.

FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
InternalError	Internal error.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

DescribeHostUpdateRecordDetail

Last updated : 2023-12-01 16:21:31

1. API Description

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

Query certificate cloud resource update record details list

A maximum of 10 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: DescribeHostUpdateRecordDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
DeployRecordId	Yes	String	One-click update record ID
Limit	No	String	Number per page, 10 by default.
Offset	No	String	Paging offset, starting from 0

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	Total count Note: This field may return null, indicating that no valid value can be obtained.
RecordDetailList	Array of UpdateRecordDetails	Certificate deployment record list Note: This field may return null, indicating that no valid value can be obtained.
SuccessTotalCount	Integer	Total successful deployments Note: This field may return null, indicating that no valid value can be obtained.
FailedTotalCount	Integer	Total failed deployments Note: This field may return null, indicating that no valid value can be obtained.
RunningTotalCount	Integer	Total running deployments Note: This field may return null, indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Query Certificate Cloud Resource Update Record Details List

Query certificate cloud resource update record details list

Input Example

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

{
  "DeployRecordId": "abc",
  "Limit": "abc",
  "Offset": "abc"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 0,
    "RecordDetailList": [
      {
        "ResourceType": "abc",
        "List": [
          {
            "Id": 1,
            "CertId": "abc",
            "OldCertId": "abc",
            "Domains": [
              "abc"
            ],
            "ResourceType": "abc",
            "Region": "abc",
            "Status": 1,
            "ErrorMsg": "abc",
            "CreateTime": "abc",
            "UpdateTime": "abc",
            "InstanceId": "abc",
            "InstanceName": "abc",
            "ListenerId": "abc",
            "ListenerName": "abc",
            "Protocol": "abc",
            "SniSwitch": 1,
            "Bucket": "abc",
            "Port": 0,
            "Namespace": "abc",
            "SecretName": "abc",
            "EnvId": "abc",
            "TCBType": "abc"
          }
        ],
        "TotalCount": 0
      }
    ],
    "SuccessTotalCount": 0,
    "FailedTotalCount": 0,
    "RunningTotalCount": 0,
    "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.
FailedOperation.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateDeployNotExist	The certificate deployment record does not exist.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
InternalError	Internal error.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

ModifyCertificateResubmit

Last updated : 2023-12-01 16:21:31

1. API Description

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

This API is used to re-submit a review application for a paid certificate whose review failed or was canceled.

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: ModifyCertificateResubmit.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	The certificate ID.

3. Output Parameters

Parameter Name	Type	Description
CertificateId	String	The certificate ID.

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Re-submitting a review application for a certificate whose review failed

Input Example

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

{
  "CertificateId": "xxx"
}
```

Output Example

```
{
  "Response": {
    "CertificateId": "xx",
    "RequestId": "xx"
  }
}
```

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.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.CertificateStatusNotAllowResubmit	You cannot re-submit a review application for a certificate in this status.
InvalidParameter.CertificateStatusNotAllowResubmit	u200cYou cannot re-submit a review application for a certificate in this status.
InvalidParameter.WithDetailReason	The parameter is incorrect.

UpdateCertificateInstance

Last updated : 2023-12-01 16:21:30

1. API Description

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

This API is used to update old certificate resources with one click and is an asynchronous interface. After this API is called, the returned DeployRecordId being 0 indicates that the task is in progress, and the returned DeployRecordId being greater than 0 indicates that the task is successfully created. If the creation fails, an exception is returned.

A maximum of 10 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: UpdateCertificateInstance.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
OldCertificateId	Yes	String	One-click update old certificate ID
ResourceTypes.N	Yes	Array of String	Type of the resource that needs to be deployed. The following parameter values are optional: clb, cdn, waf, live, ddos, teo, apigateway, vod, tke, and tcb.

CertificateId	No	String	One-click update new certificate ID
ResourceTypesRegions.N	No	Array of ResourceTypeRegions	List of regions for which cloud resources need to be deployed
CertificatePublicKey	No	String	Public key of the certificate. If the public key of the certificate is uploaded, CertificateId does not need to be uploaded.
CertificatePrivateKey	No	String	Private key of the certificate. If the public key of the certificate is uploaded, the private key of the certificate is required.
ExpiringNotificationSwitch	No	Integer	Whether an expiration reminder is ignored for the old certificate. 0: The notification is not ignored. 1: The notification is ignored.
Repeatable	No	Boolean	Whether repeated uploading of the same certificate is allowed. If the public key of the certificate is uploaded, this parameter can be configured.
AllowDownload	No	Boolean	Whether downloading is allowed. If the public key of the certificate is uploaded, this parameter can be configured.
Tags.N	No	Array of Tags	Tag list. If the public key of the certificate is uploaded, this parameter can be configured.
ProjectId	No	Integer	Project ID. If the public key of the certificate is uploaded, this parameter can be configured.

3. Output Parameters

Parameter Name	Type	Description
DeployRecordId	Integer	Cloud resource deployment task ID Note: This field may return null, indicating that no valid value can be obtained.
DeployStatus	Integer	Deployment status. 1 indicates that the deployment

		succeeded, and 0 indicates that the deployment failed.
UpdateSyncProgress	Array of UpdateSyncProgress	
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 One-Click Update Old Certificate Resources

One-click update old certificate resources

Input Example

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

{
  "CertificateId": "abc",
  "OldCertificateId": "abc",
  "ResourceTypes": [
    "abc"
  ],
  "Regions": [
    "abc"
  ],
  "ResourceTypesRegions": [
    {
      "ResourceType": "abc",
      "Regions": [
        "abc"
      ]
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "DeployRecordId": 1,
    "DeployStatus": 1,
    "RequestId": "c9c9d2fb-41c0-43b6-8c10-44c81de553c1"
  }
}
```

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	Operation failed.
FailedOperation.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateDeployHasPendingRecord	There is a running certificate deployment task. Please try again after the deployment is

	complete.
FailedOperation.CertificateDeployInstanceEmpty	There is no instance for the selected cloud resource. Updating failed. Please try again after checking it.
FailedOperation.CertificateExists	The certificate already exists.
FailedOperation.CertificateHostDeployCanNotAllow	The current certificate is not allowed to use the one-click update function.
FailedOperation.CertificateHostResourceInnerInterrupt	Unable to use the deployment feature because the login account is an internal account with too many instance resources. Please contact us to handle it.
FailedOperation.CertificateHostResourceInstanceHugeLimit	There are too many instances under the current account. Loading cannot be performed properly. Please switch the loading mode. After switching, click "Refresh List" and wait for a period of time. Then, all the instances can be loaded.
FailedOperation.CertificateHostResourceTypeInvalid	The cloud resource type is invalid.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateNotAvailable	The certificate is not available. Please check and try again.
FailedOperation.CertificateNotDeployInstance	The certificate is not allowed to be deployed under the instance list.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.RoleNotFoundAuthorization	The role does not exist. Please authorize the role first.
InternalError	Internal error.
InvalidParameter.WithDetailReason	The parameter is incorrect.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

UpdateCertificateRecordRetry

Last updated : 2023-12-01 16:21:30

1. API Description

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

Cloud resource update deployment retry record

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: UpdateCertificateRecordRetry.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
DeployRecordId	No	Integer	To-be-redeployed record ID
DeployRecordDetailId	No	Integer	To-be-redeployed record detail ID

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Cloud Resource Update Deployment Retry Record

Cloud resource update deployment retry record

Input Example

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

{
  "DeployRecordId": 1,
  "DeployRecordDetailId": 2
}
```

Output Example

```
{
  "Response": {
    "RequestId": "11111111111111"
  }
}
```

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.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateDeployHasPendingRecord	There is a running certificate deployment task. Please try again after the deployment is complete.
FailedOperation.CertificateDeployRetryStatusInvalid	This operation can be performed only when the record status is Failed.
FailedOperation.CertificateNotDeployInstance	The certificate is not allowed to be deployed under the instance list.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
InternalError	Internal error.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

UpdateCertificateRecordRollback

Last updated : 2023-12-01 16:21:30

1. API Description

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

Cloud resource update one-click rollback

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: UpdateCertificateRecordRollback.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
DeployRecordId	No	Integer	To-be-redeployed record ID

3. Output Parameters

Parameter Name	Type	Description
DeployRecordId	Integer	Rollback deployment record ID

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Cloud Resource Update One-Click Rollback

Cloud resource update one-click rollback

Input Example

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

{
  "DeployRecordId": 1
}
```

Output Example

```
{
  "Response": {
    "DeployRecordId": 0,
    "RequestId": "xx"
  }
}
```

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.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateDeployDetailRollbackStatusInvalid	This operation can be performed only when the record status is Complete.
FailedOperation.CertificateDeployHasPendingRecord	There is a running certificate deployment task. Please try again after the deployment is complete.
FailedOperation.CertificateDeployRetryStatusInvalid	This operation can be performed only when the record status is Failed.
FailedOperation.CertificateDeployRollbackStatusInvalid	A rollback can be performed only when there is a record indicating successful deployment.
FailedOperation.CertificateNotDeployInstance	The certificate is not allowed to be deployed under the instance list.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.

InternalError	Internal error.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

CreateCertificateBindResourceSyncTask

Last updated : 2023-12-01 16:21:33

1. API Description

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

This API is used to create an async task for querying the cloud resources associated with a certificate. If such a task already exists under the certificate ID, the ID of this task is returned as the result. The following types of cloud resources are supported: CLB, CDN, WAF, LIVE, VOD, DDOS, TKE, APIGATEWAY, TCB, and TEO (EDGEONE). You can query the result of this task using the `DescribeCertificateBindResourceTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateCertificateBindResourceSyncTask.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateIds.N	Yes	Array of String	The list of certificate IDs, 100 IDs at most.
IsCache	Yes	Integer	Whether to use the cached results. Valid values: <code>1</code> (default) for yes and <code>0</code> for no. If any task completed within last 30 minutes exists under the current certificate ID, and the cache is used, the

			query result of the last task completed within 30 minutes will be read.
--	--	--	---

3. Output Parameters

Parameter Name	Type	Description
CertTaskIds	Array of CertTaskId	The IDs of async tasks for querying cloud resources associated with a certificate.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an async task for querying cloud resources associated with a certificate

Input Example

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

{
  "CertificateIds": [
    "abc"
  ],
  "IsCache": 1
}
```

Output Example

```
{
  "Response": {
    "CertTaskIds": [
      {
        "CertId": "abc",
        "TaskId": "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.

- [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.CertificateHostResourceInnerInterrupt	Unable to use the deployment feature because the login account is an internal account with too many instance resources. Please contact us to handle it.
FailedOperation.CertificateNotFound	The certificate does not exist.

DescribeCertificateBindResourceTaskDetail

Last updated : 2023-12-01 16:21:32

1. API Description

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

This API is used to query the result of an async task created with

`CreateCertificateBindResourceSyncTask` to query cloud resources associated with a certificate. The following types of cloud resources are supported: CLB, CDN, WAF, LIVE, VOD, DDOS, TKE, APIGATEWAY, TCB, and TEO (EDGEONE).

A maximum of 10 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: DescribeCertificateBindResourceTaskDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
TaskId	Yes	String	The task ID, which is required to query the result of associated cloud resources.
Limit	No	String	The number of cloud resources displayed on each page. The default value is 10, and the maximum value is 100.
Offset	No	String	The current offset.

ResourceTypes.N	No	Array of String	The types of the resources to be queried. If no value is passed in, all types of resources will be queried.
Regions.N	No	Array of String	The regions of the resources to be queried. Only CLB, TKE, WAF, APIGATEWAY, and TCB resources support the query by region.

3. Output Parameters

Parameter Name	Type	Description
CLB	Array of ClbInstanceList	The details of associated CLB resources. Note: This field may return null, indicating that no valid values can be obtained.
CDN	Array of CdnInstanceList	The details of associated CDN resources. Note: This field may return null, indicating that no valid values can be obtained.
WAF	Array of WafInstanceList	The details of associated WAF resources. Note: This field may return null, indicating that no valid values can be obtained.
DDOS	Array of DdosInstanceList	The details of associated Anti-DDS resources. Note: This field may return null, indicating that no valid values can be obtained.
LIVE	Array of LiveInstanceList	The details of associated LIVE resources. Note: This field may return null, indicating that no valid values can be obtained.
VOD	Array of VodInstanceList	The details of associated VOD resources. Note: This field may return null, indicating that no valid values can be obtained.
TKE	Array of TkeInstanceList	The details of associated TKE resources. Note: This field may return null, indicating that no valid values can be obtained.
APIGATEWAY	Array of ApiGatewayInstanceList	The details of associated APIGATEWAY resources. Note: This field may return null, indicating that no valid values can be obtained.

TCB	Array of TCBInstanceList	The details of associated TCB resources. Note: This field may return null, indicating that no valid values can be obtained.
TEO	Array of TeoInstanceList	The details of associated TEO resources. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	The status of the async task. Valid values: <code>0</code> for querying, <code>1</code> for successful, and <code>2</code> for abnormal. If the status is <code>1</code> , the result of <code>BindResourceResult</code> will be displayed; if the status is <code>2</code> , the error causes will be displayed.
CacheTime	String	The cache time of the current result.
TSE	Array of TSEInstanceList	Associated TSE resource details Note: This field may return null, indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the details of cloud resources associated with a certificate

Input Example

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

{
  "TaskId": "abc",
  "Limit": "abc",
  "Offset": "abc"
}
```

Output Example

```
{
  "Response": {
```

```
"CLB": [  
  {  
    "Region": "abc",  
    "InstanceList": [  
      {  
        "LoadBalancerId": "abc",  
        "LoadBalancerName": "abc",  
        "Listeners": [  
          {  
            "ListenerId": "abc",  
            "ListenerName": "abc",  
            "SniSwitch": 1,  
            "Protocol": "abc",  
            "Certificate": {  
              "CertId": "abc",  
              "DnsNames": [  
                "abc"  
              ],  
              "CertCaId": "abc",  
              "SSLMode": "abc"  
            },  
            "Rules": [  
              {  
                "LocationId": "abc",  
                "Domain": "abc",  
                "IsMatch": true,  
                "Certificate": {  
                  "CertId": "abc",  
                  "DnsNames": [  
                    "abc"  
                  ],  
                  "CertCaId": "abc",  
                  "SSLMode": "abc"  
                },  
                "NoMatchDomains": [  
                  "abc"  
                ]  
              }  
            ],  
            "NoMatchDomains": [  
              "abc"  
            ]  
          }  
        ],  
        "NoMatchDomains": [  
          "abc"  
        ]  
      }  
    ],  
    "TotalCount": 1  
  }  
]
```

```
}
],
"CDN": [
{
"TotalCount": 1,
"InstanceList": [
{
"Domain": "abc",
"CertId": "abc",
"Status": "abc",
"httpsBillingSwitch": "abc"
}
]
}
],
"WAF": [
{
"Region": "abc",
"InstanceList": [
{
"Domain": "abc",
"CertId": "abc",
"Keepalive": 1
}
],
"TotalCount": 1
}
],
"DDOS": [
{
"TotalCount": 1,
"InstanceList": [
{
"Domain": "abc",
"InstanceId": "abc",
"Protocol": "abc",
"CertId": "abc",
"VirtualPort": "abc"
}
]
}
],
"LIVE": [
{
"TotalCount": 1,
"InstanceList": [
{
```

```
"Domain": "abc",
"CertId": "abc",
"Status": 0
}
]
},
"VOD": [
{
"InstanceList": [
{
"Domain": "abc",
"CertId": "abc"
}
],
"TotalCount": 1
}
],
"TKE": [
{
"Region": "abc",
"InstanceList": [
{
"ClusterId": "abc",
"ClusterName": "abc",
"NamespaceList": [
{
"Name": "abc",
"SecretList": [
{
"Name": "abc",
"CertId": "abc",
"IngressList": [
{
"IngressName": "abc",
"TlsDomains": [
"abc"
],
"Domains": [
"abc"
]
}
],
"NoMatchDomains": [
"abc"
]
}
}
]
}
]
```

```
]
}
],
"ClusterType": "abc",
"ClusterVersion": "abc"
}
],
"TotalCount": 1
}
],
"APIGATEWAY": [
{
"Region": "abc",
"InstanceList": [
{
"ServiceId": "abc",
"ServiceName": "abc",
"Domain": "abc",
"CertId": "abc",
"Protocol": "abc"
}
],
"TotalCount": 1
}
],
"TCB": [
{
"Region": "abc",
"Environments": [
{
"Environment": {
"ID": "abc",
"Source": "abc",
"Name": "abc",
"Status": "abc"
},
"AccessService": {
"InstanceList": [
{
"Domain": "abc",
"Status": 0,
"UnionStatus": 0,
"IsPreempted": true,
"ICPStatus": 0,
"OldCertificateId": "abc"
}
],

```

```
"TotalCount": 0
},
"HostService": {
  "InstanceList": [
    {
      "Domain": "abc",
      "Status": "abc",
      "DNSStatus": "abc",
      "OldCertificateId": "abc"
    }
  ],
  "TotalCount": 0
}
]
}
],
"TEO": [
  {
    "InstanceList": [
      {
        "Host": "abc",
        "CertId": "abc",
        "ZoneId": "abc",
        "Status": "abc"
      }
    ],
    "TotalCount": 1
  },
  {
    "Status": 1,
    "CacheTime": "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.

- [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.RoleNotFoundAuthorization	The role does not exist. Please authorize the role first.

DescribeCertificateBindResourceTaskResult

Last updated : 2023-12-01 16:21:32

1. API Description

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

This API is used to query the result of an async task created with

`CreateCertificateBindResourceSyncTask` to query cloud resources associated with a certificate. The following types of cloud resources are supported: CLB, CDN, WAF, LIVE, VOD, DDOS, TKE, APIGATEWAY, TCB, and TEO (EDGEONE).

A maximum of 10 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: DescribeCertificateBindResourceTaskResult.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
TaskIds.N	Yes	Array of String	The task IDs, which are used to query the results of associated cloud resources, 100 IDs at most.

3. Output Parameters

Parameter Name	Type	Description
SyncTaskBindResourceResult	Array of SyncTaskBindResourceResult	The results of the async tasks for querying associated cloud resources. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the total number of cloud resources associated with a certificate

This example shows you how to query the total number of cloud resources associated with a certificate.

Input Example

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

{
  "TaskIds": [
    "abc"
  ]
}
```

Output Example

```
{
  "Response": {
    "SyncTaskBindResourceResult": [
      {
        "TaskId": "abc",
        "BindResourceResult": [
          {
            "ResourceType": "abc",
            "BindResourceRegionResult": [
              {
                "Region": "abc",
```

```
"TotalCount": 1
}
],
{
  "Status": 1,
  "Error": {
    "Code": "abc",
    "Message": "abc"
  },
  "CacheTime": "abc"
}
],
{
  "RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

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Error Code	Description
FailedOperation	Operation failed.

UploadConfirmLetter

Last updated : 2023-12-01 16:21:29

1. API Description

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

This API is used to upload the confirmation letter for a certificate.

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: UploadConfirmLetter.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID
ConfirmLetter	Yes	String	Base64-encoded confirmation letter file, which must be a JPG, JPEG, PNG, or PDF file of 1 KB to 1.4 MB

3. Output Parameters

Parameter Name	Type	Description

CertificateId	String	Certificate ID
IsSuccess	Boolean	Whether the operation is successful
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Uploading the confirmation letter for a certificate

Input Example

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

{
  "CertificateId": "f1SFd6Fh",
  "ConfirmLetter": "UESDBBQABgAIAAAAIQCM19MmCg....."
}
```

Output Example

```
{
  "Response": {
    "RequestId": "15dc3823-4089-4fd6-81a6-ec8baf5ec330",
    "CertificateId": "f1SFd6Fh",
    "IsSuccess": true
  }
}
```

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.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.ConfirmLetterTooLarge	The confirmation letter file cannot exceed 1.4 MB.
FailedOperation.ConfirmLetterTooSmall	The confirmation letter file cannot be smaller than 1 KB.
FailedOperation.InvalidCertificateSource	Certificate source error.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidConfirmLetterFormat	The format of the confirmation letter file is invalid (JPG, JPEG, PNG, and PDF are supported).
FailedOperation.InvalidConfirmLetterFormatWosign	The format of the confirmation letter file is invalid (JPG, PDF, and GIF are supported).
FailedOperation.NetworkError	The CA system is busy. Try again later.
InternalError	Internal error.

DescribeHostTeoInstanceList

Last updated : 2023-12-01 16:21:32

1. API Description

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

This API is used to query the list of EDGEONE instances to which a certificate can be deployed.

A maximum of 10 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: DescribeHostTeoInstanceList.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	The ID of the certificate to be deployed.
ResourceType	Yes	String	The type of resource for certificate deployment.
IsCache	No	Integer	Whether to query the cached results. Valid values: ☐ 1 (yes) and ☐ 0 (no). By default, the cached results within 30 minutes are queried.
Filters.N	No	Array of Filter	The list of filter parameters. FilterKey: domainMatch (query the list of instances with matching or non-matching domains). FilterValue:

			1 (default; query the list of instances with matching domains) or 0 (query the list of instances with non-matching domains).
OldCertificateId	No	String	The ID of the deployed certificate.
Offset	No	Integer	The pagination offset, starting from 0.
Limit	No	Integer	The number of instances on each page. Default value: 10.
AsyncCache	No	Integer	Whether the query is asynchronous.

3. Output Parameters

Parameter Name	Type	Description
InstanceList	Array of TeoInstanceDetail	The list of EDGEONE instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total count.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 u200cQuerying the list of EDGEONE instances

This example shows you how to query the list of EDGEONE instances to which a certificate can be deployed.

Input Example

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

{
  "CertificateId": "abc",
  "IsCache": 1,
  "Filters": [
```

```
{
  "FilterKey": "abc",
  "FilterValue": "abc"
},
{
  "ResourceType": "abc",
  "OldCertificateId": "abc"
}
```

Output Example

```
{
  "Response": {
    "InstanceList": [
      {
        "Host": "abc",
        "CertId": "abc",
        "ZoneId": "abc",
        "Status": "abc"
      }
    ],
    "TotalCount": 0,
    "RequestId": "abc"
  }
}
```

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 .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.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateHostResourceInnerInterrupt	Unable to use the deployment feature because the login account is an internal account with too many instance resources. Please contact us to handle it.
FailedOperation.CertificateNotAvailable	The certificate is not available. Please check and try again.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.RoleNotFoundAuthorization	The role does not exist. Please authorize the role first.
InternalError	Internal error.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

UploadCertificate

Last updated : 2023-12-01 16:21:30

1. API Description

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

This API is used to upload a certificate.

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: UploadCertificate.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificatePublicKey	Yes	String	Public key of the certificate
CertificatePrivateKey	No	String	Private key content. This parameter is required when the certificate type is SVR, and not required when the certificate type is CA.
CertificateType	No	String	Certificate type. Valid values: <code>CA</code> (CA certificate) and <code>SVR</code> (server certificate). Default value: <code>SVR</code>
Alias	No	String	Alias

ProjectId	No	Integer	Project ID
CertificateUse	No	String	
Tags.N	No	Array of Tags	The list of tags.
Repeatable	No	Boolean	Whether a certificate can be repeatedly uploaded.

3. Output Parameters

Parameter Name	Type	Description
CertificateId	String	Certificate ID
RepeatCertId	String	The ID of the repeatedly uploaded certificate. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Uploading a certificate

This example shows you how to upload a certificate.

Input Example

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

{
  "CertificatePublicKey": "CertificateContent"
}
```

Output Example

```
{
  "Response": {
    "CertificateId": "a92b1Z1i",
    "RepeatCertId": "",
    "RequestId": "7ef2d2bb-f609-4e3d-a35c-04a5d3ac633b"
  }
}
```

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 .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	A CAM signature/authentication error occurred.
AuthFailure.UnauthorizedOperation	The operation is unauthorized.
FailedOperation	Operation failed.
FailedOperation.AuthError	You do not have permission to perform this operation.

FailedOperation.CAMAuthorizedFail	A CAM authentication error occurred.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CannotBeDeletedIssued	Failed to delete the certificate because it has been issued.
FailedOperation.CannotBeDeletedWithinHour	Free certificates cannot be deleted within 1 hour after being applied for.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateEncryptInvalid	The certificate is suspected to be an SM2 certificate and does not comply with the selected certificate standard. Please check whether the selected certificate standard and the content of the certificate are correct.
FailedOperation.CertificateExists	The certificate already exists.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateMismatch	The certificate and the private key do not match.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.OrderAlreadyReplaced	This order has already been replaced.
FailedOperation.OrderReplaceFailed	Failed to reissue a certificate.
InternalError	Internal error.
InvalidParameter.MissMatchPrivateKey	There is no matching private key.
InvalidParameter.WithDetailReason	The parameter is incorrect.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

SubmitCertificateInformation

Last updated : 2023-12-01 16:21:30

1. API Description

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

This API is used to submit certificate 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: SubmitCertificateInformation.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID
CsrType	No	String	CSR generation mode. <code>online</code> : generated online; <code>parse</code> : uploaded manually
CsrContent	No	String	Uploaded CSR content
CertificateDomain	No	String	Domain name bound with the certificate
DomainList.N	No	Array of String	Uploaded domain name array (can be uploaded for a multi-domain certificate)

KeyPassword	No	String	Password of the private key
OrganizationName	No	String	Organization name
OrganizationDivision	No	String	Division name
OrganizationAddress	No	String	Detailed address of the organization
OrganizationCountry	No	String	Country where the organization is located, for example, CN (China)
OrganizationCity	No	String	City where the organization is located
OrganizationRegion	No	String	Province where the organization is located
PostalCode	No	String	Postal code of the organization
PhoneAreaCode	No	String	Area code of the fixed-line phone number of the organization
PhoneNumber	No	String	Fixed-line phone number of the organization
VerifyType	No	String	Certificate validation method
AdminFirstName	No	String	Last name of the administrator
AdminLastName	No	String	First name of the administrator
AdminPhoneNum	No	String	Mobile number of the administrator
AdminEmail	No	String	Email of the administrator
AdminPosition	No	String	Position of the administrator
ContactFirstName	No	String	Last name of the contact
ContactLastName	No	String	First name of the contact
ContactEmail	No	String	Email of the contact
ContactNumber	No	String	Mobile number of the contact
ContactPosition	No	String	Position of the contact

3. Output Parameters

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

Name		
CertificateId	String	Certificate ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Submitting certificate information

Input Example

```
https://ssl.tencentcloudapi.com/?Action=SubmitCertificateInformation
&CertificateId=abcb1234
&CsrType=online
&CertificateDomain=*.test-dq342da.com
&OrganizationName=Tencent
&OrganizationDivision=Qcloud
&OrganizationAddress=Tencent Building, No.10000 Shennan Avenue, Nanshan District
&OrganizationCountry=CN
&OrganizationCity=Shenzhen
&OrganizationRegion=Guangdong
&PhoneAreaCode=0755
&PhoneNumber=86013388
&AdminFirstName=test
&AdminLastName=test
&AdminPhoneNum=12345678901
&AdminEmail=test@tencent.com
&AdminPosition=developer
&ContactFirstName=test
&ContactLastName=test
&ContactEmail=test@tencent.com
&ContactNumber=12345678901
&ContactPosition=developer
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "CertificateId": "abcb1234",
    "RequestId": "9b397ac6-7d01-4fbc-8acc-52dd6ff0877b"
```

```
}  
}
```

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 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.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.

InternalError	Internal error.
---------------	-----------------

ReplaceCertificate

Last updated : 2023-12-01 16:21:30

1. API Description

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

This API is used to reissue a certificate. Note that if you have applied for a free certificate, only an RSA-2048 certificate will be reissued, and the certificate can be reissued only once.

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: ReplaceCertificate.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID
ValidType	Yes	String	Validation type. <code>DNS_AUTO</code> : automatic DNS validation; <code>DNS</code> : manual DNS validation; <code>FILE</code> : file validation
CsrType	No	String	Type. <code>original</code> : original certificate CSR; <code>upload</code> : uploaded manually; <code>online</code> : generated online. The default value is original.
CsrContent	No	String	CSR content

CsrkeyPassword	No	String	Password of the key
Reason	No	String	Reissue reason
CertCSREncryptAlgo	No	String	The CSR encryption algorithm. Valid values: <code>RSA</code> (default), <code>ECC1</code> , and <code>SM2</code> . This parameter is available for selection only when the value of <code>CsrType</code> is <code>Online</code> .
CertCSRKeyParameter	No	String	The CSR encryption parameters. When <code>CsrEncryptAlgo</code> is set to <code>RSA</code> , <code>2048</code> (default) and <code>4096</code> are available for selection; and when <code>CsrEncryptAlgo</code> is set to <code>ECC</code> , <code>prime256v1</code> (default) and <code>secp384r1</code> are available for selection.

3. Output Parameters

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

4. Example

Example1 Reissuing a certificate

Input Example

```
https://ssl.tencentcloudapi.com/?Action=ReplaceCertificate
&CertificateId=a91hoLqi
&ValidType=DNS
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "CertificateId": "a91hoLqo",
    "RequestId": "91afa3b6-5b67-43e1-b312-9d3b9bf0f410"
  }
}
```

5. Developer Resources

SDK

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- [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.AuthError	You do not have permission to perform this operation.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CannotBeDeletedIssued	Failed to delete the certificate because it has been issued.

FailedOperation.CannotBeDeletedWithinHour	Free certificates cannot be deleted within 1 hour after being applied for.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateMismatch	The certificate and the private key do not match.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateSource	Certificate source error.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.OrderAlreadyReplaced	This order has already been replaced.
FailedOperation.OrderReplaceFailed	Failed to reissue a certificate.
InternalError	Internal error.
InvalidParameter.RenewAlgorithmInvalid	The algorithm is invalid.

ModifyCertificateProject

Last updated : 2023-12-01 16:21:31

1. API Description

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

This API is used to modify the projects of multiple certificates.

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: ModifyCertificateProject.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateIdList.N	Yes	Array of String	ID list of certificates whose projects need to be modified. A maximum of 100 certificate IDs are supported.
ProjectId	Yes	Integer	Project ID

3. Output Parameters

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

SuccessCertificates	Array of String	List of certificates whose projects were modified successfully Note: this field may return null, indicating that no valid values can be obtained.
FailCertificates	Array of String	List of certificates whose projects failed to be modified Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the project of a certificate

Input Example

```
https://ssl.tencentcloudapi.com/?Action=ModifyCertificateProject
&CertificateIdList.0=ABCD1234&CertificateIdList.1=ABCD1235&CertificateIdList.2=AB
CD1236
&ProjectId=12345
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "FailCertificates": [],
    "SuccessCertificates": [
      "ABCD1234",
      "ABCD1235",
      "ABCD1236"
    ],
    "RequestId": "95adbcc1-a0bb-4b9c-acf6-5c4e514b945f"
  }
}
```

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.AuthError	You do not have permission to perform this operation.
FailedOperation.CAMAuthorizedFail	A CAM authentication error occurred.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
InternalError	Internal error.

ModifyCertificateAlias

Last updated : 2023-12-01 16:21:31

1. API Description

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

This API is used to modify a certificate alias by passing in the certificate ID and new alias.

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: ModifyCertificateAlias.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID
Alias	No	String	Alias

3. Output Parameters

Parameter Name	Type	Description

CertificateId	String	ID of the successfully modified certificate
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying a certificate alias

Input Example

```
https://ssl.tencentcloudapi.com/?Action=ModifyCertificateAlias
&CertificateId=abcb1234
&Alias=others
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "CertificateId": "abcb1234",
    "RequestId": "9b397ac6-7d01-4fbc-8acc-52dd6ff0877b"
  }
}
```

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.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
InternalError	Internal error.
InvalidParameter	The parameter is incorrect.

DownloadCertificate

Last updated : 2023-12-01 16:21:31

1. API Description

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

This API is used to download a certificate.

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: DownloadCertificate.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID

3. Output Parameters

Parameter Name	Type	Description
Content	String	ZIP content encoded by using Base64. After the content is decoded by using

		Base64, it can be saved as a ZIP file. Note: this field may return null, indicating that no valid values can be obtained.
ContentType	String	MIME type. <code>application/zip</code> : ZIP file Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Downloading a certificate

Input Example

```
https://ssl.tencentcloudapi.com/?Action=DownloadCertificate
&CertificateId=CertificateId
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Content": "UEsD.....vAAA",
    "ContentType": "application/zip",
    "RequestId": "084d5612-67a7-4aca-aac9-827aa3662b2d"
  }
}
```

5. Developer Resources

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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.AuthError	You do not have permission to perform this operation.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CannotBeDeletedIssued	Failed to delete the certificate because it has been issued.
FailedOperation.CannotBeDeletedWithinHour	Free certificates cannot be deleted within 1 hour after being applied for.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateMismatch	The certificate and the private key do not match.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.OrderAlreadyReplaced	This order has already been replaced.
FailedOperation.OrderReplaceFailed	Failed to reissue a certificate.

InternalError	Internal error.
---------------	-----------------

DescribeCertificates

Last updated : 2023-12-01 16:21:32

1. API Description

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

This API is used to get the certificate 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: DescribeCertificates.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	No	Integer	Pagination offset, starting from 0
Limit	No	Integer	Number of entries per page. Default value: 20 . Maximum value: 1000 .
SearchKey	No	String	Keyword for search, which can be a certificate ID, alias, or domain name, for example, a8xHcals
CertificateType	No	String	Certificate type. CA : client certificate; SVR : server certificate
ProjectId	No	Integer	Project ID

ExpirationSort	No	String	Sorting by expiration time. <code>DESC</code> : descending; <code>ASC</code> : ascending
CertificateStatus.N	No	Array of Integer	Certificate status. <code>0</code> : Reviewing; <code>1</code> : Approved; <code>2</code> : Unapproved; <code>3</code> : Expired; <code>4</code> : DNS record added; <code>5</code> : Enterprise-grade certificate, pending submission; <code>6</code> : Canceling order; <code>7</code> : Canceled; <code>8</code> : Information submitted, pending confirmation letter upload; <code>9</code> : Revoking certificate; <code>10</code> : Revoked; <code>11</code> : Reissuing; <code>12</code> : Pending revocation confirmation letter upload; <code>13</code> : Pending information submission for the free certificate.
Deployable	No	Integer	Whether the certificate can be deployed. <code>1</code> : yes; <code>0</code> : no
Upload	No	Integer	Whether to filter uploaded hosted certificates. <code>1</code> : Yes; <code>0</code> : No.
Renew	No	Integer	Whether to filter renewable certificates. <code>1</code> : Yes; <code>0</code> : No.
FilterSource	No	String	Filter by source. <code>upload</code> : Uploaded certificate; <code>buy</code> : Tencent Cloud certificate. If this parameter is left empty, all certificates will be queried.
IsSM	No	Integer	Whether to filter Chinese SM certificates. <code>1</code> : Yes; <code>0</code> : No.
FilterExpiring	No	Integer	Whether to filter expiring certificates. <code>1</code> : Yes; <code>0</code> : No.
Hostable	No	Integer	Whether the certificate can be hosted. Valid values: <code>1</code> for yes and <code>0</code> for no.

3. Output Parameters

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

4. Example

Example1 Querying the certificate list

This example shows you how to query the certificate list.

Input Example

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

{
  "Limit": 1
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "Certificates": [
      {
        "OwnerUin": "123123",
        "ProjectId": "0",
        "From": "trustasia",
        "PackageType": "2",
        "CertificateType": "SVR",
        "ProductZhName": "TrustAsia TLS RSA CA",
        "Domain": "a.qq.com",
        "Alias": "qq",
        "Status": 3,
        "CertificateExtra": {
          "SMCert": 0,
          "DomainNumber": "1",
          "ReplacedBy": null,
          "OriginCertificateId": null,
          "ReplacedFor": null,
          "RenewOrder": null
        },
        "VulnerabilityStatus": "INACTIVE",
        "StatusMsg": null,
        "VerifyType": "FILE",
      }
    ]
  }
}
```

```
"CertBeginTime": "2021-06-16 08:00:00",
"CertEndTime": "2022-06-16 07:59:59",
"ValidityPeriod": "12",
"InsertTime": "2021-06-16 16:38:41",
"AutoRenewFlag": 0,
"PreAuditInfo": {
  "TotalPeriod": 1,
  "NowPeriod": 1,
  "ManagerId": ""
},
"EncryptAlgorithm": "RSA 2048",
"IsSM": false,
"PackageName": "TrustAsia TLS RSA CA",
"CertificateId": "nVCodbjM",
"SubjectAltName": [
  "a.qq.com"
],
"StatusName": "Expired",
"IsVip": false,
"IsDv": true,
"IsWildcard": false,
"IsVulnerability": false,
"RenewAble": false,
"CAEncryptAlgorithms": [],
"CAEndTimes": [],
"CACommonNames": [],
"Deployable": true,
"ProjectInfo": {
  "ProjectId": "0",
  "OwnerUin": 0,
  "ProjectName": "Default project",
  "ProjectCreatorUin": 0,
  "ProjectCreateTime": "0000-00-00 00:00:00",
  "ProjectResume": "Default project"
},
"IsIgnore": false,
"BoundResource": null,
"Tags": []
}
},
"RequestId": "2846dbc6-edc0-4d29-820e-16bb8b8f4421"
}
```

5. Developer Resources

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.AuthError	You do not have permission to perform this operation.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CannotBeDeletedIssued	Failed to delete the certificate because it has been issued.
FailedOperation.CannotBeDeletedWithinHour	Free certificates cannot be deleted within 1 hour after being applied for.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateMismatch	The certificate and the private key do not match.
FailedOperation.CertificateNotFound	The certificate does not exist.

FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.OrderAlreadyReplaced	This order has already been replaced.
FailedOperation.OrderReplaceFailed	Failed to reissue a certificate.
FailedOperation.SystemError	A system error occurred.
InternalError	Internal error.
InternalError.BackendResponseEmpty	The backend service response is empty.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

DescribeCertificateOperateLogs

Last updated : 2023-12-01 16:21:32

1. API Description

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

This API is used to get certificate operation logs in the current account.

A maximum of 10 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: DescribeCertificateOperateLogs.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	No	Integer	Offset. The default value is 0.
Limit	No	Integer	Number of requested logs. The default value is 20.
StartTime	No	Timestamp	Start time. The default value is 15 days ago.
EndTime	No	Timestamp	End time. The default value is the current time.

3. Output Parameters

Parameter Name	Type	Description
AllTotal	Integer	Total number of logs that meet query conditions
TotalCount	Integer	Number of logs returned for this request
OperateLogs	Array of OperationLog	Certificate operation log list Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the latest five certificate operation logs of users in the last 15 days

Input Example

```
https://ssl.tencentcloudapi.com/?Action=DescribeCertificateOperateLogs
&Limit=5
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "AllTotal": 31,
    "TotalCount": 5,
    "OperateLogs": [
      {
        "Action": "User [uin: 1234567890] applies for certificate [id: ABC1abc1]",
        "CreatedOn": "2020-01-14 15:46:38"
      },
      {
        "Action": "User [uin: 1234567890] applies for certificate [id: ABC1abc1]",
        "CreatedOn": "2020-01-14 15:45:45"
      },
      {
        "Action": "User [uin: 1234567890] applies for certificate [id: ABC1abc1]",
        "CreatedOn": "2020-01-14 14:52:19"
      },
      {

```

```
"Action": "User [uin: 1234567890] applies for certificate [id: ABC1abc1]",
"CreatedOn": "2020-01-14 14:50:52"
},
{
"Action": "User [uin: 1234567890] applies for certificate [id: ABC1abc1]",
"CreatedOn": "2020-01-14 14:50:21"
}
],
"RequestId": "9b397ac6-7d01-4fbc-8acc-52dd6ff0877b"
}
}
```

5. Developer Resources

SDK

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- [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.AuthError	You do not have permission to perform this operation.

FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
InternalError	Internal error.

DescribeCertificateDetail

Last updated : 2023-12-01 16:21:32

1. API Description

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

This API is used to get certificate details.

A maximum of 10 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: DescribeCertificateDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID

3. Output Parameters

Parameter Name	Type	Description
OwnerUin	String	User UIN Note: this field may return null, indicating that no valid values can

		be obtained.
ProjectId	String	Project ID Note: this field may return null, indicating that no valid values can be obtained.
From	String	Certificate source. <code>trustasia</code> : TrustAsia; <code>upload</code> : certificate uploaded by users Note: this field may return null, indicating that no valid values can be obtained.
CertificateType	String	Certificate type. <code>CA</code> : client certificate; <code>SVR</code> : server certificate Note: this field may return null, indicating that no valid values can be obtained.
PackageType	String	Certificate plan type. null: User-uploaded certificate (no plan type); <code>1</code> : GeoTrust DV SSL CA - G3; <code>2</code> : TrustAsia TLS RSA CA; <code>3</code> : SecureSite EV Pro; <code>4</code> : SecureSite EV; <code>5</code> : SecureSite OV Pro; <code>6</code> : SecureSite OV; <code>7</code> : SecureSite OV wildcard; <code>8</code> : GeoTrust EV; <code>9</code> : GeoTrust OV; <code>10</code> : GeoTrust OV wildcard; <code>11</code> : TrustAsia DV multi-domain; <code>12</code> : TrustAsia DV wildcard; <code>13</code> : TrustAsia OV wildcard D3; <code>14</code> : TrustAsia OV D3; <code>15</code> : TrustAsia OV multi-domain D3; <code>16</code> : TrustAsia EV D3; <code>17</code> : TrustAsia EV multi-domain D3; <code>18</code> : GlobalSign OV; <code>19</code> : GlobalSign OV wildcard; <code>20</code> : GlobalSign EV; <code>21</code> : TrustAsia OV wildcard multi-domain D3; <code>22</code> : GlobalSign OV multi-domain; <code>23</code> : GlobalSign OV wildcard multi-domain; <code>24</code> : GlobalSign EV multi-domain; <code>25</code> : WoTrus DV; <code>26</code> : WoTrus DV multi-domain; <code>27</code> : WoTrus DV wildcard; <code>28</code> : WoTrus OV; <code>29</code> : WoTrus OV multi-domain; <code>30</code> : WoTrus OV wildcard; <code>31</code> : WoTrus EV; <code>32</code> : WoTrus EV multi-domain; <code>33</code> : DNSPod SM2 DV; <code>34</code> : DNSPod SM2 DV multi-domain; <code>35</code> : DNSPod SM2 DV wildcard; <code>37</code> : DNSPod SM2 OV; <code>38</code> : DNSPod SM2 OV multi-domain; <code>39</code> : DNSPod SM2 OV wildcard; <code>40</code> : DNSPod SM2 EV; <code>41</code> : DNSPod SM2 EV multi-domain; <code>42</code> : TrustAsia DV wildcard multi-domain.
ProductZhName	String	Issuer Note: this field may return null, indicating that no valid values can be obtained.
Domain	String	Domain name Note: this field may return null, indicating that no valid values can be obtained.

Alias	String	Alias Note: this field may return null, indicating that no valid values can be obtained.
Status	Integer	Certificate status. <code>0</code> : reviewing; <code>1</code> : approved; <code>2</code> : unapproved; <code>3</code> : expired; <code>4</code> : DNS record added; <code>5</code> : enterprise-grade certificate, pending submission; <code>6</code> : canceling order; <code>7</code> : canceled; <code>8</code> : information submitted, pending confirmation letter upload; <code>9</code> : revoking certificate; <code>10</code> : revoked; <code>11</code> : reissuing; <code>12</code> : pending revocation confirmation letter upload Note: this field may return null, indicating that no valid values can be obtained.
StatusMsg	String	Status information Note: this field may return null, indicating that no valid values can be obtained.
VerifyType	String	Validation type. <code>DNS_AUTO</code> : automatic DNS validation; <code>DNS</code> : manual DNS validation; <code>FILE</code> : file validation; <code>EMAIL</code> : email validation Note: this field may return null, indicating that no valid values can be obtained.
VulnerabilityStatus	String	Vulnerability scanning status Note: this field may return null, indicating that no valid values can be obtained.
CertBeginTime	Timestamp	Time when the certificate takes effect Note: this field may return null, indicating that no valid values can be obtained.
CertEndTime	Timestamp	Time when the certificate expires Note: this field may return null, indicating that no valid values can be obtained.
ValidityPeriod	String	Validity period of the certificate, in months Note: this field may return null, indicating that no valid values can be obtained.
InsertTime	Timestamp	Application time Note: this field may return null, indicating that no valid values can be obtained.
OrderId	String	Order ID Note: this field may return null, indicating that no valid values can be obtained.

CertificateExtra	CertificateExtra	Extended information of the certificate Note: this field may return null, indicating that no valid values can be obtained.
CertificatePrivateKey	String	Private key of the certificate Note: this field may return null, indicating that no valid values can be obtained.
CertificatePublicKey	String	Public key of the certificate Note: this field may return null, indicating that no valid values can be obtained.
DvAuthDetail	DvAuthDetail	DV authentication information Note: this field may return null, indicating that no valid values can be obtained.
VulnerabilityReport	String	Vulnerability scanning assessment report Note: this field may return null, indicating that no valid values can be obtained.
CertificateId	String	Certificate ID Note: this field may return null, indicating that no valid values can be obtained.
TypeName	String	Certificate type name Note: this field may return null, indicating that no valid values can be obtained.
StatusName	String	Status description Note: this field may return null, indicating that no valid values can be obtained.
SubjectAltName	Array of String	Multiple domain names included in the certificate (excluding the primary domain name, which uses the <code>Domain</code> field) Note: This field may return null, indicating that no valid values can be obtained.
IsVip	Boolean	Whether the certificate is a paid one. Note: This field may return null, indicating that no valid values can be obtained.
IsWildcard	Boolean	Whether the certificate is a wildcard certificate Note: this field may return null, indicating that no valid values can be obtained.
IsDv	Boolean	Whether the certificate is a DV certificate Note: this field may return null, indicating that no valid values can be obtained.

		be obtained.
IsVulnerability	Boolean	Whether the vulnerability scanning feature is enabled Note: this field may return null, indicating that no valid values can be obtained.
SubmittedData	SubmittedData	Submitted data Note: this field may return null, indicating that no valid values can be obtained.
RenewAble	Boolean	Whether the certificate can be renewed. Note: This field may return null, indicating that no valid values can be obtained.
Deployable	Boolean	Whether the certificate can be deployed Note: this field may return null, indicating that no valid values can be obtained.
Tags	Array of Tags	List of associated tags Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RootCert	RootCertificates	Root certificate. Note: This field may return null, indicating that no valid values can be obtained.
EncryptCert	String	Chinese SM encryption certificate Note: This field may return null, indicating that no valid values can be obtained.
EncryptPrivateKey	String	Private key of Chinese SM encryption Note: This field may return null, indicating that no valid values can be obtained.
CertFingerprint	String	SHA1 fingerprint of the signature certificate Note: This field may return null, indicating that no valid values can be obtained.
EncryptCertFingerprint	String	SHA1 fingerprint of the encryption certificate (for Chinese SM certificates only) Note: This field may return null, indicating that no valid values can be obtained.
EncryptAlgorithm	String	Certificate algorithm Note: This field may return null, indicating that no valid values can be obtained.
DvRevokeAuthDetail	Array of	The authentication value for DV certificate revocation.

	DvAuths	Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the details of a certificate under review

This example shows you how to query the details of a certificate under review.

Input Example

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

{
  "CertificateId": "aClRkC90"
}
```

Output Example

```
{
  "Response": {
    "OwnerUin": "abc",
    "ProjectId": "abc",
    "From": "abc",
    "CertificateType": "abc",
    "PackageType": "abc",
    "ProductZhName": "abc",
    "Domain": "abc",
    "Alias": "abc",
    "Status": 1,
    "StatusMsg": "abc",
    "VerifyType": "abc",
    "VulnerabilityStatus": "abc",
    "CertBeginTime": "2020-09-22 00:00:00",
    "CertEndTime": "2020-09-22 00:00:00",
    "ValidityPeriod": "abc",
    "InsertTime": "2020-09-22 00:00:00",
  }
}
```

```
"OrderId": "abc",
"CertificateExtra": {
  "DomainNumber": "abc",
  "OriginCertificateId": "abc",
  "ReplacedBy": "abc",
  "ReplacedFor": "abc",
  "RenewOrder": "abc",
  "SMCert": 0
},
"CertificatePrivateKey": "abc",
"CertificatePublicKey": "abc",
"DvAuthDetail": {
  "DvAuthKey": "abc",
  "DvAuthValue": "abc",
  "DvAuthDomain": "abc",
  "DvAuthPath": "abc",
  "DvAuthKeySubDomain": "abc",
  "DvAuths": [
    {
      "DvAuthKey": "abc",
      "DvAuthValue": "abc",
      "DvAuthDomain": "abc",
      "DvAuthPath": "abc",
      "DvAuthSubDomain": "abc",
      "DvAuthVerifyType": "abc"
    }
  ]
},
"VulnerabilityReport": "abc",
"CertificateId": "abc",
"TypeName": "abc",
"StatusName": "abc",
"SubjectAltName": [
  "abc"
],
"IsVip": true,
"IsWildcard": true,
"IsDv": true,
"IsVulnerability": true,
"SubmittedData": {
  "CsrType": "abc",
  "CsrContent": "abc",
  "CertificateDomain": "abc",
  "DomainList": [
    "abc"
  ],
  "KeyPassword": "abc",
```

```
"OrganizationName": "abc",
"OrganizationDivision": "abc",
"OrganizationAddress": "abc",
"OrganizationCountry": "abc",
"OrganizationCity": "abc",
"OrganizationRegion": "abc",
"PostalCode": "abc",
"PhoneAreaCode": "abc",
"PhoneNumber": "abc",
"AdminFirstName": "abc",
"AdminLastName": "abc",
"AdminPhoneNum": "abc",
"AdminEmail": "abc",
"AdminPosition": "abc",
"ContactFirstName": "abc",
"ContactLastName": "abc",
"ContactNumber": "abc",
"ContactEmail": "abc",
"ContactPosition": "abc",
"VerifyType": "abc"
},
"RenewAble": true,
"Deployable": true,
"Tags": [
{
"TagKey": "abc",
"TagValue": "abc"
}
],
"RootCert": {
"Sign": "abc",
"Encrypt": "abc",
"Standard": "abc"
},
"EncryptCert": "abc",
"EncryptPrivateKey": "abc",
"CertFingerprint": "abc",
"EncryptCertFingerprint": "abc",
"EncryptAlgorithm": "abc",
"DvRevokeAuthDetail": [
{
"DvAuthKey": "abc",
"DvAuthValue": "abc",
"DvAuthDomain": "abc",
"DvAuthPath": "abc",
"DvAuthSubDomain": "abc",
"DvAuthVerifyType": "abc"
```

```
}  
],  
"RequestId": "abc"  
}  
}
```

Example2 Querying the details of an approved certificate - 2

This example shows you how to query the details of an approved certificate.

Input Example

```
POST / HTTP/1.1  
Host: ssl.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: DescribeCertificateDetail  
<Common request parameters>  
  
{  
  "CertificateId": "aCMEQWht"  
}
```

Output Example

```
{  
  "Response": {  
    "OwnerUin": "abc",  
    "ProjectId": "abc",  
    "From": "abc",  
    "CertificateType": "abc",  
    "PackageType": "abc",  
    "ProductZhName": "abc",  
    "Domain": "abc",  
    "Alias": "abc",  
    "Status": 1,  
    "StatusMsg": "abc",  
    "VerifyType": "abc",  
    "VulnerabilityStatus": "abc",  
    "CertBeginTime": "2020-09-22 00:00:00",  
    "CertEndTime": "2020-09-22 00:00:00",  
    "ValidityPeriod": "abc",  
    "InsertTime": "2020-09-22 00:00:00",  
    "OrderId": "abc",  
    "CertificateExtra": {  
      "DomainNumber": "abc",  
      "OriginCertificateId": "abc",  
    }  
  }  
}
```

```
"ReplacedBy": "abc",
"ReplacedFor": "abc",
"RenewOrder": "abc",
"SMCert": 0
},
"CertificatePrivateKey": "abc",
"CertificatePublicKey": "abc",
"DvAuthDetail": {
  "DvAuthKey": "abc",
  "DvAuthValue": "abc",
  "DvAuthDomain": "abc",
  "DvAuthPath": "abc",
  "DvAuthKeySubDomain": "abc",
  "DvAuths": [
    {
      "DvAuthKey": "abc",
      "DvAuthValue": "abc",
      "DvAuthDomain": "abc",
      "DvAuthPath": "abc",
      "DvAuthSubDomain": "abc",
      "DvAuthVerifyType": "abc"
    }
  ]
},
"VulnerabilityReport": "abc",
"CertificateId": "abc",
"TypeName": "abc",
"StatusName": "abc",
"SubjectAltName": [
  "abc"
],
"IsVip": true,
"IsWildcard": true,
"IsDv": true,
"IsVulnerability": true,
"SubmittedData": {
  "CsrType": "abc",
  "CsrContent": "abc",
  "CertificateDomain": "abc",
  "DomainList": [
    "abc"
  ],
  "KeyPassword": "abc",
  "OrganizationName": "abc",
  "OrganizationDivision": "abc",
  "OrganizationAddress": "abc",
  "OrganizationCountry": "abc",
```

```
"OrganizationCity": "abc",
"OrganizationRegion": "abc",
"PostalCode": "abc",
"PhoneAreaCode": "abc",
"PhoneNumber": "abc",
"AdminFirstName": "abc",
"AdminLastName": "abc",
"AdminPhoneNum": "abc",
"AdminEmail": "abc",
"AdminPosition": "abc",
"ContactFirstName": "abc",
"ContactLastName": "abc",
"ContactNumber": "abc",
"ContactEmail": "abc",
"ContactPosition": "abc",
"VerifyType": "abc"
},
"RenewAble": true,
"Deployable": true,
"Tags": [
{
"TagKey": "abc",
"TagValue": "abc"
}
],
"RootCert": {
"Sign": "abc",
"Encrypt": "abc",
"Standard": "abc"
},
"EncryptCert": "abc",
"EncryptPrivateKey": "abc",
"CertFingerprint": "abc",
"EncryptCertFingerprint": "abc",
"EncryptAlgorithm": "abc",
"DvRevokeAuthDetail": [
{
"DvAuthKey": "abc",
"DvAuthValue": "abc",
"DvAuthDomain": "abc",
"DvAuthPath": "abc",
"DvAuthSubDomain": "abc",
"DvAuthVerifyType": "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.

- [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.AuthError	You do not have permission to perform this operation.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.

InternalError	Internal error.
InternalError.BackendResponseEmpty	The backend service response is empty.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.
ResourceNotFound.Manager	The manager of the company does not exist.

DescribeCertificate

Last updated : 2023-12-01 16:21:33

1. API Description

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

This API is used to get certificate information.

A maximum of 10 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: DescribeCertificate.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID

3. Output Parameters

Parameter Name	Type	Description
OwnerUin	String	User UIN Note: this field may return null, indicating that no valid values can be obtained.

ProjectId	String	Project ID Note: this field may return null, indicating that no valid values can be obtained.
From	String	Certificate source. <code>trustasia</code> : TrustAsia; <code>upload</code> : certificate uploaded by users Note: this field may return null, indicating that no valid values can be obtained.
CertificateType	String	Certificate type. <code>CA</code> : client certificate; <code>SVR</code> : server certificate Note: this field may return null, indicating that no valid values can be obtained.
PackageType	String	Certificate plan type. <code>1</code> : GeoTrust DV SSL CA - G3; <code>2</code> : TrustAsia TLS RSA CA; <code>3</code> : SecureSite EV Pro; <code>4</code> : SecureSite EV; <code>5</code> : SecureSite OV Pro; <code>6</code> : SecureSite OV; <code>7</code> : SecureSite OV wildcard; <code>8</code> : GeoTrust EV; <code>9</code> : GeoTrust OV; <code>10</code> : GeoTrust OV wildcard; <code>11</code> : TrustAsia DV multi-domain; <code>12</code> : TrustAsia DV wildcard; <code>13</code> : TrustAsia OV wildcard D3; <code>14</code> : TrustAsia OV D3; <code>15</code> : TrustAsia OV multi-domain D3; <code>16</code> : TrustAsia EV D3; <code>17</code> : TrustAsia EV multi-domain D3; <code>18</code> : GlobalSign OV; <code>19</code> : GlobalSign OV wildcard; <code>20</code> : GlobalSign EV; <code>21</code> : TrustAsia OV wildcard multi-domain D3; <code>22</code> : GlobalSign OV multi-domain; <code>23</code> : GlobalSign OV wildcard multi-domain; <code>24</code> : GlobalSign EV multi-domain Note: this field may return null, indicating that no valid values can be obtained.
ProductZhName	String	Name of the certificate issuer Note: this field may return null, indicating that no valid values can be obtained.
Domain	String	Domain name Note: this field may return null, indicating that no valid values can be obtained.
Alias	String	Alias Note: this field may return null, indicating that no valid values can be obtained.
Status	Integer	Certificate status. <code>0</code> : reviewing; <code>1</code> : approved; <code>2</code> : unapproved; <code>3</code> : expired; <code>4</code> : DNS record added; <code>5</code> : enterprise-grade certificate, pending submission; <code>6</code> : canceling order; <code>7</code> : canceled; <code>8</code> : information submitted, pending confirmation letter upload; <code>9</code> : revoking certificate; <code>10</code> : revoked; <code>11</code> : reissuing; <code>12</code> : pending revocation confirmation

		letter upload Note: this field may return null, indicating that no valid values can be obtained.
StatusMsg	String	Status information Note: this field may return null, indicating that no valid values can be obtained.
VerifyType	String	Validation type. <code>DNS_AUTO</code> : automatic DNS validation; <code>DNS</code> : manual DNS validation; <code>FILE</code> : file validation; <code>EMAIL</code> : email validation Note: this field may return null, indicating that no valid values can be obtained.
VulnerabilityStatus	String	Vulnerability scanning status Note: this field may return null, indicating that no valid values can be obtained.
CertBeginTime	String	Time when the certificate takes effect Note: this field may return null, indicating that no valid values can be obtained.
CertEndTime	String	Time when the certificate expires Note: this field may return null, indicating that no valid values can be obtained.
ValidityPeriod	String	Validity period of the certificate, in months Note: this field may return null, indicating that no valid values can be obtained.
InsertTime	String	Application time Note: this field may return null, indicating that no valid values can be obtained.
OrderId	String	Order ID Note: this field may return null, indicating that no valid values can be obtained.
CertificateExtra	CertificateExtra	Extended information of the certificate Note: this field may return null, indicating that no valid values can be obtained.
DvAuthDetail	DvAuthDetail	DV authentication information Note: this field may return null, indicating that no valid values can be obtained.
VulnerabilityReport	String	Vulnerability scanning assessment report

		Note: this field may return null, indicating that no valid values can be obtained.
CertificateId	String	Certificate ID Note: this field may return null, indicating that no valid values can be obtained.
PackageName	String	Certificate type name Note: this field may return null, indicating that no valid values can be obtained.
StatusName	String	Status description Note: this field may return null, indicating that no valid values can be obtained.
SubjectAltName	Array of String	Domain names associated with the certificate (including the primary domain name) Note: this field may return null, indicating that no valid values can be obtained.
IsVip	Boolean	Whether the customer is a VIP customer Note: this field may return null, indicating that no valid values can be obtained.
IsWildcard	Boolean	Whether the certificate is a wildcard certificate Note: this field may return null, indicating that no valid values can be obtained.
IsDv	Boolean	Whether the certificate is a DV certificate Note: this field may return null, indicating that no valid values can be obtained.
IsVulnerability	Boolean	Whether the vulnerability scanning feature is enabled Note: this field may return null, indicating that no valid values can be obtained.
RenewAble	Boolean	Whether the certificate can be reissued Note: this field may return null, indicating that no valid values can be obtained.
SubmittedData	SubmittedData	Submitted data Note: this field may return null, indicating that no valid values can be obtained.
Deployable	Boolean	Whether the certificate can be deployed Note: this field may return null, indicating that no valid values can be obtained.

Tags	Array of Tags	List of tags Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
CAEncryptAlgorithms	Array of String	All encryption algorithms of a CA certificate Note: This field may return null, indicating that no valid values can be obtained.
CACCommonNames	Array of String	All common names of a CA certificate Note: This field may return null, indicating that no valid values can be obtained.
CAEndTimes	Array of String	All expiration time of a CA certificate Note: This field may return null, indicating that no valid values can be obtained.
DvRevokeAuthDetail	Array of DvAuths	The authentication value for DV certificate revocation. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the information of a certificate

This example shows you how to query the information of a certificate.

Input Example

```
https://ssl.tencentcloudapi.com/?Action=DescribeCertificate
&CertificateId=CertificateId
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "OwnerUin": "abc",
    "ProjectId": "abc",
    "From": "abc",
    "CertificateType": "abc",
    "PackageType": "abc",
```

```
"ProductZhName": "abc",
"Domain": "abc",
"Alias": "abc",
"Status": 1,
"StatusMsg": "abc",
"VerifyType": "abc",
"VulnerabilityStatus": "abc",
"CertBeginTime": "abc",
"CertEndTime": "abc",
"ValidityPeriod": "abc",
"InsertTime": "abc",
"OrderId": "abc",
"CertificateExtra": {
  "DomainNumber": "abc",
  "OriginCertificateId": "abc",
  "ReplacedBy": "abc",
  "ReplacedFor": "abc",
  "RenewOrder": "abc",
  "SMCert": 0
},
"DvAuthDetail": {
  "DvAuthKey": "abc",
  "DvAuthValue": "abc",
  "DvAuthDomain": "abc",
  "DvAuthPath": "abc",
  "DvAuthKeySubDomain": "abc",
  "DvAuths": [
    {
      "DvAuthKey": "abc",
      "DvAuthValue": "abc",
      "DvAuthDomain": "abc",
      "DvAuthPath": "abc",
      "DvAuthSubDomain": "abc",
      "DvAuthVerifyType": "abc"
    }
  ]
},
"VulnerabilityReport": "abc",
"CertificateId": "abc",
"PackageTypeName": "abc",
"StatusName": "abc",
"SubjectAltName": [
  "abc"
],
"IsVip": true,
"IsWildcard": true,
"IsDv": true,
```



```
"IsVulnerability": true,
"RenewAble": true,
"SubmittedData": {
  "CsrType": "abc",
  "CsrContent": "abc",
  "CertificateDomain": "abc",
  "DomainList": [
    "abc"
  ],
  "KeyPassword": "abc",
  "OrganizationName": "abc",
  "OrganizationDivision": "abc",
  "OrganizationAddress": "abc",
  "OrganizationCountry": "abc",
  "OrganizationCity": "abc",
  "OrganizationRegion": "abc",
  "PostalCode": "abc",
  "PhoneAreaCode": "abc",
  "PhoneNumber": "abc",
  "AdminFirstName": "abc",
  "AdminLastName": "abc",
  "AdminPhoneNum": "abc",
  "AdminEmail": "abc",
  "AdminPosition": "abc",
  "ContactFirstName": "abc",
  "ContactLastName": "abc",
  "ContactNumber": "abc",
  "ContactEmail": "abc",
  "ContactPosition": "abc",
  "VerifyType": "abc"
},
"Deployable": true,
"Tags": [
  {
    "TagKey": "abc",
    "TagValue": "abc"
  }
],
"CAEncryptAlgorithms": [
  "abc"
],
"CACCommonNames": [
  "abc"
],
"CAEndTimes": [
  "abc"
],
]
```

```
"DvRevokeAuthDetail": [  
  {  
    "DvAuthKey": "abc",  
    "DvAuthValue": "abc",  
    "DvAuthDomain": "abc",  
    "DvAuthPath": "abc",  
    "DvAuthSubDomain": "abc",  
    "DvAuthVerifyType": "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.

- [Tencent Cloud SDK 3.0 for Python](#)
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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
FailedOperation	Operation failed.

FailedOperation.AuthError	You do not have permission to perform this operation.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CannotBeDeletedIssued	Failed to delete the certificate because it has been issued.
FailedOperation.CannotBeDeletedWithinHour	Free certificates cannot be deleted within 1 hour after being applied for.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateMismatch	The certificate and the private key do not match.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.OrderAlreadyReplaced	This order has already been replaced.
FailedOperation.OrderReplaceFailed	Failed to reissue a certificate.
InternalError	Internal error.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

DeleteCertificate

Last updated : 2023-12-01 16:21:33

1. API Description

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

This API is used to delete a certificate.

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: DeleteCertificate.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID

3. Output Parameters

Parameter Name	Type	Description
DeleteResult	Boolean	Deletion result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required

		for locating a problem.
--	--	-------------------------

4. Example

Example1 Deleting a certificate

Input Example

```
https://ssl.tencentcloudapi.com/?Action=DeleteCertificate
&CertificateId=CertificateId
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "DeleteResult": true,
    "RequestId": "0b39eaa4-f938-476d-9b26-19fb07b80936"
  }
}
```

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.AuthError	You do not have permission to perform this operation.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CannotBeDeletedIssued	Failed to delete the certificate because it has been issued.
FailedOperation.CannotBeDeletedWithinHour	Free certificates cannot be deleted within 1 hour after being applied for.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateMismatch	The certificate and the private key do not match.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.DeleteResourceFailed	The certificate is associated with a Tencent Cloud resource and cannot be deleted.
FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.OrderAlreadyReplaced	This order has already been replaced.
FailedOperation.OrderReplaceFailed	Failed to reissue a certificate.
InternalError	Internal error.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.

CommitCertificateInformation

Last updated : 2023-12-01 16:21:33

1. API Description

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

This API is used to submit a certificate order.

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: CommitCertificateInformation.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID
VerifyType	No	String	Domain validation method

3. Output Parameters

Parameter Name	Type	Description

OrderId	String	TrustAsia order ID
Status	Integer	Certificate status. 0 : reviewing; 1 : approved; 2 : unapproved; 3 : expired; 4 : DNS record added; 5 : enterprise-grade certificate, pending submission; 6 : canceling order; 7 : canceled; 8 : information submitted, pending confirmation letter upload; 9 : revoking certificate; 10 : revoked; 11 : reissuing; 12 : pending revocation confirmation letter upload
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Submitting a certificate order

This example shows you how to submit a certificate order.

Input Example

```
https://ssl.tencentcloudapi.com/?Action=CommitCertificateInformation
&CertificateId=abcb1234
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "OrderId": "SO8zRv29",
    "Status": 8,
    "RequestId": "9b397ac6-7d01-4fbc-8acc-52dd6ff0877b"
  }
}
```

5. Developer Resources

SDK

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- [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.AuthError	You do not have permission to perform this operation.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
InternalServerError	Internal error.
InternalServerError.BackendResponseError	An error occurred with the backend service response.

CancelCertificateOrder

Last updated : 2023-12-01 16:21:33

1. API Description

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

This API is used to cancel a certificate order.

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: CancelCertificateOrder.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CertificateId	Yes	String	Certificate ID

3. Output Parameters

Parameter Name	Type	Description
CertificateId	String	ID of the certificate whose order has been successfully cancelled

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Canceling a certificate order

Input Example

```
https://ssl.tencentcloudapi.com/?Action=CancelCertificateOrder
&CertificateId=abcb1234
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "CertificateId": "abcb1234",
    "RequestId": "9b397ac6-7d01-4fbc-8acc-52dd6ff0877b"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
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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.AuthError	You do not have permission to perform this operation.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.NoProjectPermission	You do not have the permission to operate on this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
InternalError	Internal error.

CSR APIs

BatchDeleteCSR

Last updated : 2023-12-01 16:21:29

1. API Description

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

This API is used to batch delete CSRs.

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: BatchDeleteCSR.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CSRIds.N	Yes	Array of Integer	The IDs of the CSRs to be deleted, 100 IDs at most.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Success	Array of Integer	The IDs of the CSRs successfully deleted.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Batch deleting CSRs

This example shows you how to batch delete CSRs.

Input Example

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

{
  "CSRIds": [
    11,
    22,
    33
  ]
}
```

Output Example

```
{
  "Response": {
    "Success": [
      22,
      33
    ],
    "RequestId": "5779b652-9c64-45b3-a6f4-641db7376a2e"
  }
}
```

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 .NET](#)
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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.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidCSRIId	Incorrect CSR ID.
InvalidParameter.WithDetailReason	The parameter is incorrect.
InvalidParameterValue	Invalid parameter value.

DescribeCSRSet

Last updated : 2024-07-30 17:12:09

1. API Description

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

This API is used to query the CSR list.

A maximum of 10 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: DescribeCSRSet.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
Limit	No	Integer	The number of CSRs on each page. The default value is 10, and the maximum value is 100.
Offset	No	Integer	The pagination offset, starting from 0.
Domain	No	String	The domain for CSR filtering
EncryptAlgo	No	String	The encryption algorithm for CSR filtering

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	The total number of CSRs.
Set	Array of CSRItem	The list of CSRs.
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 CSR list

This example shows you how to query the CSR list.

Input Example

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

{
  "Limit": 2,
  "Offset": 0
}
```

Output Example

```
{
  "Response": {
    "Total": 5,
    "Set": [
      {
        "Id": 123,
        "OwnerUin": "123",
        "Domain": "zz.Hathlim.cn",
        "Organization": "yunzhi",
        "Department": "Light",
        "Email": "171008474@qq.com",

```

```
"Province": "Hunan",
"City": "changsha",
"Country": "CN",
"EncryptAlgo": "RSA",
"KeyParameter": "2048",
"Remarks": "",
"Status": 1,
"CreateTime": "2023-08-25 09:48:47"
},
{
  "Id": 5555,
  "OwnerUin": "123",
  "Domain": "zz.Hathlim.cn",
  "Organization": "yunzhi",
  "Department": "Light",
  "Email": "171008474@qq.com",
  "Province": "Hunan",
  "City": "changsha",
  "Country": "CN",
  "EncryptAlgo": "RSA",
  "KeyParameter": "2048",
  "Remarks": "",
  "Status": 0,
  "CreateTime": "2023-08-25 09:43:59"
}
],
"RequestId": "f00f136b-c0c8-476a-8097-b1bdfc9d330f"
}
```

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.UnauthorizedOperation	The operation is unauthorized.
FailedOperation.CAMAuthorizedFail	A CAM authentication error occurred.
FailedOperation.SystemError	A system error occurred.

ModifyCSR

Last updated : 2023-12-01 16:21:28

1. API Description

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

This API is used to modify the information of a CSR.

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: ModifyCSR.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CSRIId	Yes	Integer	The CSR ID.
Generate	Yes	Boolean	Whether to generate the CSR content. Once the CSR content is generated, the CSR record cannot be modified.
Domain	No	String	The domain.
Organization	No	String	The organization name.
Department	No	String	The department.
Email	No	String	The email address.

Province	No	String	The province.
City	No	String	The city.
Country	No	String	The country or region.
EncryptAlgo	No	String	The encryption algorithm. RSA and ECC are supported.
KeyParameter	No	String	The key pair parameter. For RSA, only the 2048-bit and 4096-bit key pairs are supported. For ECC, only prime256v1 is supported.
Remark	No	String	The remarks.
KeyPassword	No	String	The password of the private key.

3. Output Parameters

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

4. Example

Example1 Modifying a CSR

This example shows you how to modify a CSR.

Input Example

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

{
  "CSRIId": 662,
  "Generate": false,
  "Domain": "abc123.com",
```

```
"Organization": "abc123",
"Department": "abc123",
"Email": "abc@qq.com",
"Province": "abc12",
"City": "abc",
"Country": "abc123",
"EncryptAlgo": "RSA",
"KeyParameter": "2048"
}
```

Output Example

```
{
  "Response": {
    "Id": 662,
    "RequestId": "f00f136b-c0c8-476a-8097-b1bdfc9d330f"
  }
}
```

5. Developer Resources

SDK

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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.NetworkError	The CA system is busy. Try again later.
InvalidParameter.InvalidCSRId	Incorrect CSR ID.
InvalidParameter.WithDetailReason	The parameter is incorrect.

DescribeCSR

Last updated : 2023-12-01 16:21:29

1. API Description

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

This API is used to query the details of a CSR.

A maximum of 10 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: DescribeCSR.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
CSRIId	Yes	Integer	The CSR ID.

3. Output Parameters

Parameter Name	Type	Description
Id	Integer	The CSR ID.
OwnerUin	String	The account.

Domain	String	The domain.
Organization	String	The organization name.
Department	String	The department.
Email	String	The email address.
Province	String	The province.
City	String	The city.
Country	String	The country or region.
EncryptAlgo	String	The key algorithm.
KeyParameter	String	The algorithm parameter.
Remarks	String	The remarks.
Status	Integer	The status.
KeyPassword	String	The password of the private key. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	The creation time.
CSR	String	The CSR content. Note: This field may return null, indicating that no valid values can be obtained.
PrivateKey	String	The content of the private key. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the information of a CSR

This example shows you how to query the information of a CSR.

Input Example

```
POST / HTTP/1.1
Host: ssl.tencentcloudapi.com
Content-Type: application/json
```

```
X-TC-Action: DescribeCSR
<Common request parameters>
```

```
{
  "CSRIId": 12344
}
```

Output Example

```
{
  "Response": {
    "Id": 12344,
    "OwnerUin": "123",
    "Domain": "zz.zz.cn",
    "Organization": "yunzhi",
    "Department": "Light",
    "Email": "171008474@qq.com",
    "Province": "Hunan",
    "City": "changsha",
    "Country": "CN",
    "EncryptAlgo": "RSA",
    "KeyParameter": "2048",
    "Remarks": "",
    "Status": 1,
    "KeyPassword": "123abcccaa",
    "CreateTime": "2023-08-25 09:48:47",
    "CSR": "-----BEGIN CERTIFICATE REQUEST-----\r\nMIICnjCCAYYCAQAwWTEWMBQGA1UEAwwNenouSGF0aGxpbS5jbjEPMA0GA1UECgwG\r\nneXVuemhpMREwDwYDVQQHDAhjaGFuZ3NoYTEOMAwGA1UECAwFSHVuYW4xCzAJBgNV\r\nbAYTAKNOMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAs8Wumn7cUG2d\r\n\r\n8ARiCg7rRtnNfonamdivha7bcm/xX4otKkI6f9TOjd05TLQT2Qd55Iu8gVsGdFQ6\r\n\r\nntQwD/a3Koo2lD8XvBVI8R0LuGoK1jfChzglJo/FWwGyZjkMlUY6WisAk6utUYCSg\r\n\r\nncynZXD0kl1EfwlkhsI4NbFG2ZrV7Ksj8Ed1e+Ki0GStVab5j9qh/e4WeqE3IuZXG\r\n\r\nndofd/kEnvtpriAsXgR+qpwwBTGpRwiqNhyP6z/xxM706eEhcnqh4oZi4abGCC2JM\r\n\r\nnNJuvffFdmDiLaUKBrouk8WqZacB4nH1Uuk4y5eGGpxpX5UF+xgm/Sz0iI242dZFY\r\n\r\nnDtqaSE8ZhwIDAQABoAAwDQYJKoZIhvcNAQEFBQADggEBAG8CES6epieMDaiXrEin\r\n\r\nn2cVFxJUzrzf2aDm5YK4mAeZ3h1kCQINDymtnQ4A4lFeQw+Le7xblS7qdMVT/5ecn\r\n\r\nn64KbmfrThEaH/dTYOsbV7CipNfXiKH/SoD1Wz9bowNIxtXvy1t5R1z3s8CBjKCKO\r\n\r\nnj6vG+pUwh/mdAhpYlzh9VnfpMDAAtNBbxFhhLXqubiGe5YKqwuf3OwHov46g4+64\r\n\r\nnPy8gmVbcqHy212Ea5wdOC+154scm/b6bTdqo6Fv62bvepQI1mT5f198KTdKp1jCt\r\n\r\nnw3gsfyY6WyL4zSvRgdbQyyWwys+rjsaNzqShSKxZ3xGKpdoOnK0uQX2RLfBB1nCi\r\n\r\nnW9s=\r\n\r\n-----END CERTIFICATE REQUEST-----\r\n\r\n",
    "PrivateKey": null,
    "RequestId": "f00f136b-c0c8-476a-8097-b1bdfc9d330f"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.SystemError	A system error occurred.
InvalidParameter.InvalidCSRId	Incorrect CSR ID.
InvalidParameter.WithDetailReason	The parameter is incorrect.

CreateCSR

Last updated : 2023-12-01 16:21:29

1. API Description

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

This API is used to create a CSR.

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: CreateCSR.
Version	Yes	String	Common Params . The value used for this API: 2019-12-05.
Region	No	String	Common Params . This parameter is not required for this API.
Domain	Yes	String	The domain.
Organization	Yes	String	The organization name.
Department	Yes	String	The department.
Email	Yes	String	The email address.
Province	Yes	String	The province.
City	Yes	String	The city.
Country	Yes	String	The country or region code that complies with ISO 3166, such as

			CN and US.
EncryptAlgo	Yes	String	The encryption algorithm. RSA and ECC are supported.
KeyParameter	Yes	String	The key pair parameter. For RSA, only the 2048-bit and 4096-bit key pairs are supported. For ECC, only prime256v1 is supported.
Generate	Yes	Boolean	Whether to generate the CSR content. Once the CSR content is generated, the CSR record cannot be modified.
KeyPassword	No	String	The password of the private key.
Remark	No	String	The remarks.

3. Output Parameters

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

4. Example

Example1 Creating a CSR

This example show you how to create a CSR.

Input Example

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

{
  "Domain": "abc12",
  "Organization": "abc12",
  "Department": "abc12",
  "Email": "abc@qq.com",
```

```
"Province": "abc",
"City": "abc",
"Country": "abc",
"EncryptAlgo": "ECC",
"KeyParameter": "prime256v1",
"Generate": false
}
```

Output Example

```
{
  "Response": {
    "Id": 733,
    "RequestId": "f00f136b-c0c8-476a-8097-b1bdfc9d330f"
  }
}
```

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.CAMAuthorizedFail	A CAM authentication error occurred.
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.SystemError	A system error occurred.

Data Types

Last updated : 2024-07-30 17:11:59

ApiGatewayInstanceDetail

Details of an APIGATEWAY instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
ServiceId	String	The instance ID.
ServiceName	String	The instance name.
Domain	String	The domain.
CertId	String	The certificate ID. Note: This field may return null, indicating that no valid values can be obtained.
Protocol	String	The protocol.

ApiGatewayInstanceList

Details of APIGATEWAY instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Region	String	The region.
InstanceList	Array of ApiGatewayInstanceDetail	The list of APIGATEWAY instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total number of APIGATEWAY instances in this region.

BindResourceRegionResult

Region of associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskResult.

Name	Type	Description
Region	String	The region. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total number of associated cloud resources.

BindResourceResult

Associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskResult.

Name	Type	Description
ResourceType	String	Supported types: CLB, CDN, WAF, LIVE, VOD, DDOS, TKE, APIGATEWAY, TCB, and TEO (EDGEONE).
BindResourceRegionResult	Array of BindResourceRegionResult	The region of associated cloud resources.

CSRItem

Details of a CSR

Used by actions: DescribeCSRSet.

Name	Type	Description
Id	Integer	The CSR ID. Note: This field may return null, indicating that no valid values can be obtained.
OwnerUin	String	The account. Note: This field may return null, indicating that no valid values can be obtained.
Domain	String	The domain. Note: This field may return null, indicating that no valid values can be obtained.
Organization	String	The organization name.

		Note: This field may return null, indicating that no valid values can be obtained.
Department	String	The department. Note: This field may return null, indicating that no valid values can be obtained.
Email	String	The email address. Note: This field may return null, indicating that no valid values can be obtained.
Province	String	The province. Note: This field may return null, indicating that no valid values can be obtained.
City	String	The city. Note: This field may return null, indicating that no valid values can be obtained.
Country	String	The country or region. Note: This field may return null, indicating that no valid values can be obtained.
Remarks	String	The remarks. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	The status. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	String	The creation time. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
EncryptAlgo	String	The encryption algorithm. Note: This field may return null, indicating that no valid values can be obtained.
KeyParameter	String	The algorithm parameter. Note: This field may return null, indicating that no valid values can be obtained.

CdnInstanceDetail

Details of a CDN instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Domain	String	The domain.
CertId	String	The ID of the deployed certificate.
Status	String	The status of the domain.

HttpsBillingSwitch	String	The billing status of the domain.
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CdnInstanceList

Details of CDN instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
TotalCount	Integer	The total number of CDN domains in this region.
InstanceList	Array of CdnInstanceDetail	The list of CDN domains. Note: This field may return null, indicating that no valid values can be obtained.

CertTaskId

Certificate and async task IDs

Used by actions: CreateCertificateBindResourceSyncTask.

Name	Type	Required	Description
CertId	String	No	The certificate ID.
TaskId	String	No	The async task ID.

Certificate

Details of a CLB certificate

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
CertId	String	The certificate ID.
DnsNames	Array of String	The list of domains bound to the certificate.

CertCald	String	The root certificate ID. Note: This field may return null, indicating that no valid values can be obtained.
SSLMode	String	The authentication type. Valid values: <code>UNIDIRECTIONAL</code> (one-way authentication) and <code>MUTUAL</code> (two-way authentication). Note: This field may return null, indicating that no valid values can be obtained.

CertificateExtra

Content of the `CertificateExtra` parameter. `CertificateExtra` is an element of `Certificates` array which is returned by `DescribeCertificates`.

Used by actions: `DescribeCertificate`, `DescribeCertificateDetail`, `DescribeCertificates`.

Name	Type	Description
DomainNumber	String	Number of domain names which can be associated with the certificate Note: this field may return null, indicating that no valid values can be obtained.
OriginCertificateId	String	Original certificate ID Note: this field may return null, indicating that no valid values can be obtained.
ReplacedBy	String	Original ID of the new certificate Note: this field may return null, indicating that no valid values can be obtained.
ReplacedFor	String	New ID of the new certificate Note: this field may return null, indicating that no valid values can be obtained.
RenewOrder	String	Certificate ID of the new order Note: this field may return null, indicating that no valid values can be obtained.
SMCert	Integer	Whether the certificate is a Chinese SM certificate. Note: This field may return null, indicating that no valid values can be obtained.
CompanyType	Integer	Company type Note: This field may return null, indicating that no valid value can be obtained.

Certificates

Content of the `Certificates` parameter returned by `DescribeCertificates`

Used by actions: `DescribeCertificates`.

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Name	Type	Description
OwnerUin	String	User UIN Note: this field may return null, indicating that no valid values can be obtained.
ProjectId	String	Project ID Note: this field may return null, indicating that no valid values can be obtained.
From	String	Certificate source Note: this field may return null, indicating that no valid values can be obtained.
PackageType	String	The certificate plan type. Valid values: null: Certificates uploaded by users (no plan type) 1 : GeoTrust DV SSL CA - G3; 2 : TrustAsia TLS RSA CA; 3 : SecureSite EV Pro; 4 : SecureSite EV; 5 : SecureSite OV Pro; 6 : SecureSite OV; 7 : SecureSite OV wildcard; 8 : GeoTrust EV; 9 : GeoTrust OV; 10 : GeoTrust OV wildcard; 11 : TrustAsia DV multi-domain; 12 : TrustAsia DV wildcard; 13 : TrustAsia OV wildcard D3; 14 : TrustAsia OV D3; 15 : TrustAsia OV multi-domain D3; 16 : TrustAsia EV D3; 17 : TrustAsia EV multi-domain D3; 18 : GlobalSign OV; 19 : GlobalSign OV wildcard; 20 : GlobalSign EV; 21 : TrustAsia OV wildcard multi-domain D3; 22 : GlobalSign OV multi-domain; 23 : GlobalSign OV wildcard multi-domain; 24 : GlobalSign EV multi-domain Note: This field may return null, indicating that no valid values can be obtained.
CertificateType	String	Certificate type. CA : client certificate; SVR : server certificate Note: this field may return null, indicating that no valid values can be obtained.
ProductZhName	String	Issuer Note: this field may return null, indicating that no valid values can be obtained.
Domain	String	Primary domain name Note: this field may return null, indicating that no valid values can be obtained.

Alias	String	Alias Note: this field may return null, indicating that no valid values can be obtained.
Status	Integer	Status. <code>0</code> : Reviewing; <code>1</code> : Approved; <code>2</code> : Unapproved; <code>3</code> : Expired; <code>4</code> : DNS record added for domain names of the DNS_AUTO verification type; <code>5</code> : Enterprise-grade certificate, pending submission; <code>6</code> : Canceling order; <code>7</code> : Canceled; <code>8</code> : Information submitted, pending confirmation letter upload; <code>9</code> : Revoking certificate; <code>10</code> : Revoked; <code>11</code> : Reissuing; <code>12</code> : Pending revocation confirmation letter upload; <code>13</code> : Pending information submission for the free certificate; <code>14</code> : Refunded. Note: This field may return null, indicating that no valid values can be obtained.
CertificateExtra	CertificateExtra	Extended information of the certificate Note: this field may return null, indicating that no valid values can be obtained.
VulnerabilityStatus	String	Vulnerability scanning status. <code>INACTIVE</code> : not activated; <code>ACTIVE</code> : activated Note: this field may return null, indicating that no valid values can be obtained.
StatusMsg	String	Status information Note: this field may return null, indicating that no valid values can be obtained.
VerifyType	String	Validation type. <code>DNS_AUTO</code> : automatic DNS validation; <code>DNS</code> : manual DNS validation; <code>FILE</code> : file validation; <code>EMAIL</code> : email validation Note: this field may return null, indicating that no valid values can be obtained.
CertBeginTime	String	Time when the certificate takes effect Note: this field may return null, indicating that no valid values can be obtained.
CertEndTime	String	Time when the certificate expires Note: this field may return null, indicating that no valid values can be obtained.
ValidityPeriod	String	Validity period of the certificate, in months Note: this field may return null, indicating that no valid

		values can be obtained.
InsertTime	String	Creation time Note: this field may return null, indicating that no valid values can be obtained.
CertificateId	String	Certificate ID Note: this field may return null, indicating that no valid values can be obtained.
SubjectAltName	Array of String	Domain names associated with the certificate (including the primary domain name) Note: this field may return null, indicating that no valid values can be obtained.
PackageTypeName	String	Certificate type name Note: this field may return null, indicating that no valid values can be obtained.
StatusName	String	Status description Note: this field may return null, indicating that no valid values can be obtained.
IsVip	Boolean	Whether the customer is a VIP customer Note: this field may return null, indicating that no valid values can be obtained.
IsDv	Boolean	Whether the certificate is a DV certificate Note: this field may return null, indicating that no valid values can be obtained.
IsWildcard	Boolean	Whether the certificate is a wildcard certificate Note: this field may return null, indicating that no valid values can be obtained.
IsVulnerability	Boolean	Whether the vulnerability scanning feature is enabled Note: this field may return null, indicating that no valid values can be obtained.
RenewAble	Boolean	Whether it can be renewed Note: This field may return null, indicating that no valid value can be obtained.
ProjectInfo	ProjectInfo	Project information Note: this field may return null, indicating that no valid values can be obtained.
BoundResource	Array of String	Associated Tencent Cloud services. Currently, this

		parameter is unavailable. Note: this field may return null, indicating that no valid values can be obtained.
Deployable	Boolean	Whether the certificate can be deployed Note: this field may return null, indicating that no valid values can be obtained.
Tags	Array of Tags	List of tags Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
IsIgnore	Boolean	Whether the expiration notification was ignored Note: This field may return null, indicating that no valid values can be obtained.
IsSM	Boolean	Whether the certificate is a Chinese SM certificate Note: This field may return null, indicating that no valid values can be obtained.
EncryptAlgorithm	String	Certificate algorithm Note: This field may return null, indicating that no valid values can be obtained.
CAEncryptAlgorithms	Array of String	Encryption algorithm of the uploaded CA certificate Note: This field may return null, indicating that no valid values can be obtained.
CAEndTimes	Array of String	Expiration time of the uploaded CA certificate Note: This field may return null, indicating that no valid values can be obtained.
CACCommonNames	Array of String	Generic name of the uploaded CA certificate Note: This field may return null, indicating that no valid values can be obtained.
PreAuditInfo	PreAuditInfo	Prereview information of the certificate Note: This field may return null, indicating that no valid values can be obtained.
AutoRenewFlag	Integer	Whether auto-renewal is enabled. Note: This field may return null, indicating that no valid value can be obtained.
HostingStatus	Integer	The hosting status. Valid values: <code>0</code> (hosting), <code>5</code> (replacing resources), <code>10</code> (hosting completed), and <code>-1</code> (not hosted).

		Note: This field may return null, indicating that no valid values can be obtained.
HostingCompleteTime	String	The hosting completion time. Note: This field may return null, indicating that no valid values can be obtained.
HostingRenewCertId	String	The hosted new certificate ID. Note: This field may return null, indicating that no valid values can be obtained.
HasRenewOrder	String	Existing renewed certificate ID Note: This field may return null, indicating that no valid value can be obtained.
ReplaceOriCertsDelete	Boolean	Whether the original certificate is deleted when a certificate is reissued. Note: This field may return null, indicating that no valid value can be obtained.
IsExpiring	Boolean	Whether the certificate is expiring soon. A certificate is considered to be expiring soon when there are 30 days or less left. Note: This field may return null, indicating that no valid value can be obtained.
DVAuthDeadline	String	Validation expiration time for the addition of the DV certificate Note: This field may return null, indicating that no valid value can be obtained.
ValidationPassedTime	String	Domain name validation pass time Note: This field may return null, indicating that no valid value can be obtained.
CertSANs	Array of String	Multiple domain names with which the certificate is associated Note: This field may return null, indicating that no valid value can be obtained.
AwaitingValidationMsg	String	Domain name validation rejection information Note: This field may return null, indicating that no valid value can be obtained.
AllowDownload	Boolean	Whether downloading is allowed Note: This field may return null, indicating that no valid value can be obtained.

IsDNSPODResolve	Boolean	
IsPackage	Boolean	
KeyPasswordCustomFlag	Boolean	
SupportDownloadType	SupportDownloadType	

ClbInstanceDetail

Details of a CLB instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
LoadBalancerId	String	The CLB instance ID.
LoadBalancerName	String	The CLB instance name.
Listeners	Array of ClbListener	The list of CLB listeners. Note: This field may return null, indicating that no valid values can be obtained.

ClbInstanceList

Details of CLB instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Region	String	The region.
InstanceList	Array of ClbInstanceDetail	The list of CLB instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total number of CLB instances in this region.

ClbListener

Details of a CLB instance listener

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
ListenerId	String	The listener ID.
ListenerName	String	The listener name.
SniSwitch	Integer	Whether to enable SNI. Valid values: <code>1</code> (enable) and <code>0</code> (disable).
Protocol	String	The listener protocol type. Valid values: <code>HTTPS</code> and <code>TCP_SSL</code> .
Certificate	Certificate	The information of the certificate bound to the listener. Note: This field may return null, indicating that no valid values can be obtained.
Rules	Array of ClbListenerRule	The list of the listener rules. Note: This field may return null, indicating that no valid values can be obtained.
NoMatchDomains	Array of String	The list of non-matching domains. Note: This field may return null, indicating that no valid values can be obtained.

ClbListenerRule

Details of a CLB listener rule

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
LocationId	String	The rule ID.
Domain	String	The domains bound.
IsMatch	Boolean	Whether the rule matches the domains to be associated with a certificate.
Certificate	Certificate	The certificates associated with the rule. Note: This field may return null, indicating that no valid values can be obtained.

NoMatchDomains	Array of String	The list of non-matching domains. Note: This field may return null, indicating that no valid values can be obtained.
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DdosInstanceDetail

Details of a DDOS instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Domain	String	The domain.
InstanceId	String	The instance ID.
Protocol	String	The protocol type.
CertId	String	The certificate ID. Note: This field may return null, indicating that no valid values can be obtained.
VirtualPort	String	The forwarding port.

DdosInstanceList

Details of DDOS instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
TotalCount	Integer	The total number of DDOS instances in this region.
InstanceList	Array of DdosInstanceDetail	The list of DDOS instances. Note: This field may return null, indicating that no valid values can be obtained.

DvAuthDetail

Content of the `DvAuthDetail` parameter returned by `DescribeCertificates`

Used by actions: DescribeCertificate, DescribeCertificateDetail.

Name	Type	Description
DvAuthKey	String	DV authentication key Note: this field may return null, indicating that no valid values can be obtained.
DvAuthValue	String	DV authentication value Note: this field may return null, indicating that no valid values can be obtained.
DvAuthDomain	String	Domain name of the DV authentication value Note: this field may return null, indicating that no valid values can be obtained.
DvAuthPath	String	Path of the DV authentication value Note: this field may return null, indicating that no valid values can be obtained.
DvAuthKeySubDomain	String	DV authentication sub-domain name Note: this field may return null, indicating that no valid values can be obtained.
DvAuths	Array of DvAuths	DV authentication information Note: this field may return null, indicating that no valid values can be obtained.

DvAuths

Content of the `DvAuths` parameter

Used by actions: DescribeCertificate, DescribeCertificateDetail.

Name	Type	Description
DvAuthKey	String	DV authentication key Note: this field may return null, indicating that no valid values can be obtained.
DvAuthValue	String	DV authentication value Note: this field may return null, indicating that no valid values can be obtained.
DvAuthDomain	String	Domain name of the DV authentication value Note: this field may return null, indicating that no valid values can be obtained.

DvAuthPath	String	Path of the DV authentication value Note: this field may return null, indicating that no valid values can be obtained.
DvAuthSubDomain	String	DV authentication sub-domain name Note: this field may return null, indicating that no valid values can be obtained.
DvAuthVerifyType	String	DV authentication type Note: this field may return null, indicating that no valid values can be obtained.

Error

Errors

Used by actions: DescribeCertificateBindResourceTaskResult.

Name	Type	Description
Code	String	The error code. Note: This field may return null, indicating that no valid values can be obtained.
Message	String	The error message. Note: This field may return null, indicating that no valid values can be obtained.

Filter

List of filter parameters

Used by actions: DescribeHostTeoInstanceList.

Name	Type	Required	Description
FilterKey	String	Yes	The key of the filter parameter.
FilterValue	String	Yes	u200cThe value of the filter parameter.

GatewayCertificate

Cloud-native gateway certificate information

Used by actions: DescribeCertificateBindResourceTaskDetail.

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Name	Type	Description
Id	String	Gateway certificate ID Note: This field may return null, indicating that no valid value can be obtained.
Name	String	Gateway certificate information Note: This field may return null, indicating that no valid value can be obtained.
BindDomains	Array of String	Bound domain name Note: This field may return null, indicating that no valid value can be obtained.
CertSource	String	Certificate source Note: This field may return null, indicating that no valid value can be obtained.
CertId	String	SSL certificate ID that is currently bound Note: This field may return null, indicating that no valid value can be obtained.

LiveInstanceDetail

Details of a LIVE instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Domain	String	The domain.
CertId	String	The ID of the associated certificate. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	The status. Valid values: <code>-1</code> : No certificate is associated with the domain. <code>1</code> : HTTPS is enabled for the domain. <code>0</code> : HTTPS is disabled for the domain.

LiveInstanceList

Details of LIVE instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
TotalCount	Integer	The total number of LIVE instances in this region.
InstanceList	Array of LiveInstanceDetail	The list of LIVE instances. Note: This field may return null, indicating that no valid values can be obtained.

OperationLog

Certificate operation logs

Used by actions: DescribeCertificateOperateLogs.

Name	Type	Description
Action	String	Action performed on logs
CreatedOn	Timestamp	Time when the action is performed

PreAuditInfo

List of prereview information

Used by actions: DescribeCertificates.

Name	Type	Description
TotalPeriod	Integer	Total number of years of the certificate Note: This field may return null, indicating that no valid values can be obtained.
NowPeriod	Integer	Current year of the certificate Note: This field may return null, indicating that no valid values can be obtained.
ManagerId	String	Certificate prereview manager ID Note: This field may return null, indicating that no valid values can be obtained.

ProjectInfo

Content of the `ProjectInfo` parameter. `ProjectInfo` is an element of `Certificates` array which is returned by `DescribeCertificates`.

Used by actions: `DescribeCertificates`.

Name	Type	Description
ProjectName	String	Project name Note: this field may return null, indicating that no valid values can be obtained.
ProjectCreatorUin	Integer	UIN of the project creator Note: this field may return null, indicating that no valid values can be obtained.
ProjectCreateTime	String	Project creation time Note: this field may return null, indicating that no valid values can be obtained.
ProjectResume	String	Brief project information Note: this field may return null, indicating that no valid values can be obtained.
OwnerUin	Integer	User UIN Note: this field may return null, indicating that no valid values can be obtained.
ProjectId	String	Project ID Note: this field may return null, indicating that no valid values can be obtained.

ResourceTypeRegions

Cloud resource region list

Used by actions: `UpdateCertificateInstance`.

Name	Type	Required	Description
ResourceType	String	No	Cloud resource type
Regions	Array of String	No	Region list

RootCertificates

Root certificate

Used by actions: `DescribeCertificateDetail`.

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Name	Type	Description
Sign	String	Chinese SM signature certificate Note: This field may return null, indicating that no valid values can be obtained.
Encrypt	String	Chinese SM encryption certificate Note: This field may return null, indicating that no valid values can be obtained.
Standard	String	Standard certificate Note: This field may return null, indicating that no valid values can be obtained.

SubmittedData

Content of the SubmittedData parameter returned by DescribeCertificates

Used by actions: DescribeCertificate, DescribeCertificateDetail.

Name	Type	Required	Description
CsrType	String	No	CSR type. online : CSR generated online; parse : CSR pasted Note: this field may return null, indicating that no valid values can be obtained.
CsrContent	String	No	CSR content Note: this field may return null, indicating that no valid values can be obtained.
CertificateDomain	String	No	Domain name information Note: this field may return null, indicating that no valid values can be obtained.
DomainList	Array of String	No	DNS information Note: this field may return null, indicating that no valid values can be obtained.
KeyPassword	String	No	Password of the private key Note: this field may return null, indicating that no valid values can be obtained.
OrganizationName	String	No	Enterprise or unit name Note: this field may return null, indicating that no valid values can be obtained.
OrganizationDivision	String	No	Division

			Note: this field may return null, indicating that no valid values can be obtained.
OrganizationAddress	String	No	Address Note: this field may return null, indicating that no valid values can be obtained.
OrganizationCountry	String	No	Country Note: this field may return null, indicating that no valid values can be obtained.
OrganizationCity	String	No	City Note: this field may return null, indicating that no valid values can be obtained.
OrganizationRegion	String	No	Province Note: this field may return null, indicating that no valid values can be obtained.
PostalCode	String	No	Postal code Note: this field may return null, indicating that no valid values can be obtained.
PhoneAreaCode	String	No	Area code of the fixed-line phone number Note: this field may return null, indicating that no valid values can be obtained.
PhoneNumber	String	No	Fixed-line phone number Note: this field may return null, indicating that no valid values can be obtained.
AdminFirstName	String	No	First name of the administrator Note: this field may return null, indicating that no valid values can be obtained.
AdminLastName	String	No	Last name of the administrator Note: this field may return null, indicating that no valid values can be obtained.
AdminPhoneNum	String	No	Phone number of the administrator Note: this field may return null, indicating that no valid values can be obtained.
AdminEmail	String	No	Email of the administrator Note: this field may return null, indicating that no valid values can be obtained.
AdminPosition	String	No	Position of the administrator

			Note: this field may return null, indicating that no valid values can be obtained.
ContactFirstName	String	No	First name of the contact Note: this field may return null, indicating that no valid values can be obtained.
ContactLastName	String	No	Last name of the contact Note: this field may return null, indicating that no valid values can be obtained.
ContactNumber	String	No	Phone number of the contact Note: this field may return null, indicating that no valid values can be obtained.
ContactEmail	String	No	Email of the contact Note: this field may return null, indicating that no valid values can be obtained.
ContactPosition	String	No	Position of the contact Note: this field may return null, indicating that no valid values can be obtained.
VerifyType	String	No	Validation type Note: this field may return null, indicating that no valid values can be obtained.

SupportDownloadType

Used by actions: DescribeCertificates.

Name	Type	Description
NGINX	Boolean	
APACHE	Boolean	
TOMCAT	Boolean	
IIS	Boolean	
JKS	Boolean	
OTHER	Boolean	
ROOT	Boolean	

SyncTaskBindResourceResult

Result of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskResult.

Name	Type	Description
TaskId	String	The task ID.
BindResourceResult	Array of BindResourceResult	The associated cloud resources. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	The status of the async task. Valid values: <code>0</code> for querying, <code>1</code> for successful, and <code>2</code> for abnormal. If the status is <code>1</code> , the result of <code>BindResourceResult</code> will be displayed; if the status is <code>2</code> , the error causes will be displayed.
Error	Error	The error occurred when querying the associated cloud resources. Note: This field may return null, indicating that no valid values can be obtained.
CacheTime	String	The cache time of the current result.

TCBAccessInstance

TCB access instances

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Domain	String	The domain. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	The status. Note: This field may return null, indicating that no valid values can be obtained.
UnionStatus	Integer	The unified domain status. Note: This field may return null, indicating that no valid values can be obtained.

IsPreempted	Boolean	Whether the domain is preempted. A preempted domain is one that is already associated with another environment. It must be disassociated or re-associated first. Note: This field may return null, indicating that no valid values can be obtained.
ICPStatus	Integer	Whether the domain is added to the ICP blocklist. Valid values: <code>0</code> for no and <code>1</code> for yes. Note: This field may return null, indicating that no valid values can be obtained.
OldCertificateId	String	The ID of the associated certificate. Note: This field may return null, indicating that no valid values can be obtained.

TCBAccessService

Details of TCB access instances

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
InstanceList	Array of TCBAccessInstance	The list of instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The instance count. Note: This field may return null, indicating that no valid values can be obtained.

TCBEnvironment

Details of TCB environment instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
ID	String	The unique ID. Note: This field may return null, indicating that no valid values can be obtained.
Source	String	The source.

		Note: This field may return null, indicating that no valid values can be obtained.
Name	String	The name. Note: This field may return null, indicating that no valid values can be obtained.
Status	String	The status. Note: This field may return null, indicating that no valid values can be obtained.

TCBEnvironments

Details of TCB instances by environment - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Environment	TCBEnvironment	The TCB environment. Note: This field may return null, indicating that no valid values can be obtained.
AccessService	TCBAccessService	The access service. Note: This field may return null, indicating that no valid values can be obtained.
HostService	TCBHostService	Whether static hosting is used. Note: This field may return null, indicating that no valid values can be obtained.

TCBHostInstance

Details of TCB service instances subject to static hosting

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Domain	String	The domain. Note: This field may return null, indicating that no valid values can be obtained.
Status	String	The status. Note: This field may return null, indicating that no valid values can be obtained.
DNSStatus	String	The resolution status.

		Note: This field may return null, indicating that no valid values can be obtained.
OldCertificateId	String	The ID of the associated certificate. Note: This field may return null, indicating that no valid values can be obtained.

TCBHostService

List of TCB services subject to static hosting

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
InstanceList	Array of TCBHostInstance	The list of instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The instance count. Note: This field may return null, indicating that no valid values can be obtained.

TCBInstanceList

Details of TCB instances by region - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Region	String	The region.
Environments	Array of TCBEnvironments	The list of TCB environments. Note: This field may return null, indicating that no valid values can be obtained.

TSEInstanceDetail

TSE instance details

Used by actions: DescribeCertificateBindResourceTaskDetail.

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Name	Type	Description
GatewayId	String	Gateway ID Note: This field may return null, indicating that no valid value can be obtained.
GatewayName	String	Gateway name Note: This field may return null, indicating that no valid value can be obtained.
CertificateList	Array of GatewayCertificate	Gateway certificate list Note: This field may return null, indicating that no valid value can be obtained.

TSEInstanceList

TSE instance details - asynchronously associated cloud resource data structure

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
InstanceList	Array of TSEInstanceDetail	TSE instance details Note: This field may return null, indicating that no valid value can be obtained.
TotalCount	Integer	Total TSE instances in this region
Region	String	Region

Tags

Tag

Used by actions: DescribeCertificate, DescribeCertificateDetail, DescribeCertificates, UpdateCertificateInstance, UploadCertificate.

Name	Type	Required	Description
TagKey	String	Yes	Tag key
TagValue	String	Yes	Tag value

TeoInstanceDetail

Details of TEO instances

Used by actions: DescribeCertificateBindResourceTaskDetail, DescribeHostTeoInstanceList.

Name	Type	Description
Host	String	The domain.
CertId	String	The certificate ID.
ZoneId	String	The AZ ID. Note: This field may return null, indicating that no valid values can be obtained.
Status	String	The status of the domain.

TeoInstanceList

Details of the EDGEONE instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
InstanceList	Array of TeoInstanceDetail	The list of EDGEONE instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total number of EDGEONE instances.

TkeIngressDetail

Details of a TKE Ingress instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
IngressName	String	The Ingress name.
TlsDomains	Array of String	The list of TLS domains.

Domains	Array of String	The list of Ingress domains.
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TkeInstanceDetail

Details of a TKE instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
ClusterId	String	The cluster ID.
ClusterName	String	The cluster name.
NamespaceList	Array of TkeNameSpaceDetail	The list of cluster namespaces.
ClusterType	String	The cluster type.
ClusterVersion	String	The cluster version.

TkeInstanceList

Details of TKE instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Region	String	The region.
InstanceList	Array of TkeInstanceDetail	The list of TKE instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total number of TKE instances in this region.

TkeNameSpaceDetail

Details of a TKE namespace

Used by actions: DescribeCertificateBindResourceTaskDetail.

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Name	Type	Description
Name	String	The namespace name.
SecretList	Array of TkeSecretDetail	The secret list.

TkeSecretDetail

Details of a TKE secret

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Name	String	The secret name.
CertId	String	The certificate ID.
IngressList	Array of TkeIngressDetail	The Ingress list.
NoMatchDomains	Array of String	The list of domains that do not match the new certificate. Note: This field may return null, indicating that no valid values can be obtained.

UpdateRecordDetail

Update record details

Used by actions: DescribeHostUpdateRecordDetail.

Name	Type	Description
Id	Integer	Detail record ID
CertId	String	New certificate ID
OldCertId	String	Old certificate ID
Domains	Array of String	Deployment domain name list Note: This field may return null, indicating that no valid value can be obtained.
ResourceType	String	Deployment resource type

Region	String	Deployment region Note: This field may return null, indicating that no valid value can be obtained.
Status	Integer	Deployment status
ErrorMsg	String	Deployment error message Note: This field may return null, indicating that no valid value can be obtained.
CreateTime	String	Deployment time
UpdateTime	String	Last update time
InstanceId	String	Deployment instance ID Note: This field may return null, indicating that no valid value can be obtained.
InstanceName	String	Deployment instance name Note: This field may return null, indicating that no valid value can be obtained.
ListenerId	String	Deployment listener ID (only for CLB) Note: This field may return null, indicating that no valid value can be obtained.
ListenerName	String	Deployment listener name (only for CLB) Note: This field may return null, indicating that no valid value can be obtained.
Protocol	String	Protocol Note: This field may return null, indicating that no valid value can be obtained.
SniSwitch	Integer	Whether SNI is enabled (only for CLB) Note: This field may return null, indicating that no valid value can be obtained.
Bucket	String	Bucket name (only for COS) Note: This field may return null, indicating that no valid value can be obtained.
Port	Integer	Port Note: This field may return null, indicating that no valid value can be obtained.
Namespace	String	Namespace (only for TKE) Note: This field may return null, indicating that no valid value can be

		obtained.
SecretName	String	Secret name (only for TKE) Note: This field may return null, indicating that no valid value can be obtained.
EnvId	String	Environment ID Note: This field may return null, indicating that no valid value can be obtained.
TCBType	String	TCB deployment type Note: This field may return null, indicating that no valid value can be obtained.

UpdateRecordDetails

Update record detail list

Used by actions: DescribeHostUpdateRecordDetail.

Name	Type	Description
ResourceType	String	Deployment resource type
List	Array of UpdateRecordDetail	Deployment resource detail list
TotalCount	Integer	Total deployment resource count

UpdateRecordInfo

Deployment record information

Used by actions: DescribeHostUpdateRecord.

Name	Type	Description
Id	Integer	Record ID
CertId	String	New certificate ID
OldCertId	String	Old certificate ID
ResourceTypes	Array of String	Deployment resource type list

Regions	Array of String	Deployment region list Note: This field may return null, indicating that no valid value can be obtained.
Status	Integer	Deployment status
CreateTime	String	Deployment time
UpdateTime	String	Last update time

UpdateSyncProgress

Used by actions: UpdateCertificateInstance.

Name	Type	Description
ResourceType	String	
UpdateSyncProgressRegions	Array of UpdateSyncProgressRegion	
Status	Integer	

UpdateSyncProgressRegion

Used by actions: UpdateCertificateInstance.

Name	Type	Description
Region	String	
TotalCount	Integer	
OffsetCount	Integer	
Status	Integer	

VODInstanceList

Details of VOD instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
InstanceList	Array of VodInstanceDetail	The list of VOD instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total number of VOD instances in this region.

VodInstanceDetail

Details of a VOD instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Domain	String	The domain.
CertId	String	The certificate ID.

WafInstanceDetail

Details of a WAF instance

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Domain	String	The domain.
CertId	String	The certificate ID. Note: This field may return null, indicating that no valid values can be obtained.
Keepalive	Integer	Whether to keep the persistent connection. Note: This field may return null, indicating that no valid values can be obtained.

WafInstanceList

Details of WAF instances - data structure of an async task for querying associated cloud resources

Used by actions: DescribeCertificateBindResourceTaskDetail.

Name	Type	Description
Region	String	The region.
InstanceList	Array of WafInstanceDetail	The list of WAF instances. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total number of WAF instances in this region.

Error Codes

Last updated : 2024-07-30 17:02:36

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	A CAM signature/authentication error occurred.
FailedOperation.AuthError	You do not have permission to perform this operation.
FailedOperation.CAMAuthorizedFail	A CAM authentication error occurred.
FailedOperation.CancelOrderFailed	Failed to cancel the order.
FailedOperation.CannotBeDeletedIssued	Failed to delete the certificate because it has been issued.
FailedOperation.CannotBeDeletedWithinHour	Free certificates cannot be deleted within 1 hour after being applied for.
FailedOperation.CannotGetOrder	Failed to get order information. Try again later.

FailedOperation.CertificateDeployDetailRollbackStatusInvalid	This operation can be performed only when the record status is Complete.
FailedOperation.CertificateDeployHasPendingRecord	There is a running certificate deployment task. Please try again after the deployment is complete.
FailedOperation.CertificateDeployInstanceEmpty	There is no instance for the selected cloud resource. Updating failed. Please try again after checking it.
FailedOperation.CertificateDeployNotExist	The certificate deployment record does not exist.
FailedOperation.CertificateDeployRetryStatusInvalid	This operation can be performed only when the record status is Failed.
FailedOperation.CertificateDeployRollbackStatusInvalid	A rollback can be performed only when there is a record indicating successful deployment.
FailedOperation.CertificateEncryptInvalid	The certificate is suspected to be an SM2 certificate and does not comply with the selected certificate standard. Please check whether the selected certificate standard and the content of the certificate are correct.
FailedOperation.CertificateExists	The certificate already exists.
FailedOperation.CertificateHostDeployCanNotAllow	The current certificate is not allowed to use the one-click update function.
FailedOperation.CertificateHostResourceInnerInterrupt	Unable to use the deployment feature because the login account is an internal account with too many instance resources. Please contact us to handle it.
FailedOperation.CertificateHostResourceInstanceHugeLimit	There are too many instances under the current account. Loading cannot be performed properly. Please switch the loading mode. After switching, click "Refresh List" and wait for a period of time. Then, all the instances can be loaded.
FailedOperation.CertificateHostResourceTypeInvalid	The cloud resource type is invalid.
FailedOperation.CertificateInvalid	The certificate is invalid.
FailedOperation.CertificateMismatch	The certificate and the private key do not

	match.
FailedOperation.CertificateNotAvailable	The certificate is not available. Please check and try again.
FailedOperation.CertificateNotDeployInstance	The certificate is not allowed to be deployed under the instance list.
FailedOperation.CertificateNotFound	The certificate does not exist.
FailedOperation.CertificateNotFoundOrCantCancel	The certificate does not exist, or the review cannot be canceled.
FailedOperation.CertificateStatusNotAllowedResubmit	You cannot re-submit a review application for a certificate in this status.
FailedOperation.ConfirmLetterTooLarge	The confirmation letter file cannot exceed 1.4 MB.
FailedOperation.ConfirmLetterTooSmall	The confirmation letter file cannot be smaller than 1 KB.
FailedOperation.DeleteResourceFailed	The certificate is associated with a Tencent Cloud resource and cannot be deleted.
FailedOperation.ExceedsFreeLimit	The number of free certificates exceeds the maximum value.
FailedOperation.InvalidCertificateSource	Certificate source error.
FailedOperation.InvalidCertificateStatusCode	The certificate status is incorrect.
FailedOperation.InvalidConfirmLetterFormat	The format of the confirmation letter file is invalid (JPG, JPEG, PNG, and PDF are supported).
FailedOperation.InvalidConfirmLetterFormatWosign	The format of the confirmation letter file is invalid (JPG, PDF, and GIF are supported).
FailedOperation.InvalidParam	Incorrect parameters.
FailedOperation.MainDomainCertificateCountLimit	The number of free certificates applied for under the primary domain name (%s) has reached the upper limit of %s. Please purchase a paid certificate.
FailedOperation.NetworkError	The CA system is busy. Try again later.
FailedOperation.NoProjectPermission	You do not have the permission to operate on

	this project.
FailedOperation.NoRealNameAuth	You have not completed the identity verification.
FailedOperation.OrderAlreadyReplaced	This order has already been replaced.
FailedOperation.OrderReplaceFailed	Failed to reissue a certificate.
FailedOperation.PackageCountLimit	The remaining benefit points are insufficient.
FailedOperation.PackageExpired	The benefit package has expired.
FailedOperation.PackageNotFound	The benefit package does not exist.
FailedOperation.RoleNotFoundAuthorization	The role does not exist. Please authorize the role first.
FailedOperation.SystemError	A system error occurred.
InternalError.BackendResponseEmpty	The backend service response is empty.
InternalError.BackendResponseError	An error occurred with the backend service response.
InvalidParameter.CertificateStatusNotAllowResubmit	u200cYou cannot re-submit a review application for a certificate in this status.
InvalidParameter.InvalidCSRId	Incorrect CSR ID.
InvalidParameter.MissMatchPrivateKey	There is no matching private key.
InvalidParameter.PackageIdsInvalid	The list of benefit point IDs is invalid.
InvalidParameter.RenewAlgorithmInvalid	The algorithm is invalid.
InvalidParameter.WithDetailReason	The parameter is incorrect.
LimitExceeded.RateLimitExceeded	The API rate limit is reached.
ResourceNotFound.Manager	The manager of the company does not exist.