

域名注册

API 文档

产品文档



腾讯云

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History

最近更新时间：2023-04-03 18:06:22

Release 2

Release time: 2023-04-03 18:05:15

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateIntlDomainBatch](#)
 - New input parameters:CustomDns

Release 1

Release time: 2023-03-28 10:35:36

Release updates:

Improvement to existing documentation.

New APIs:

- [BatchModifyIntlDomainDNS](#)
- [BatchModifyIntlDomainInfo](#)
- [CheckIntlDomainNew](#)
- [CreateIntlDomainBatch](#)
- [CreateIntlPhoneEmail](#)
- [CreateIntlTemplate](#)
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- [DescribeIntlBatchOperationLogs](#)
- [DescribeIntlDomain](#)
- [DescribeIntlDomainBatchDetails](#)

- [DescribeIntlDomainList](#)
- [DescribeIntlDomainPriceNewList](#)
- [DescribeIntlPhoneEmailList](#)
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- [SendIntlPhoneEmailCode](#)
- [SetIntlDomainAutoRenew](#)
- [TransferInIntlDomainBatch](#)
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- [UpdateProhibitionIntlBatch](#)

New data structures:

- [AdminContact](#)
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- [BatchDomainBuyLog](#)
- [BillingContact](#)
- [IntlBatchDetails](#)
- [IntlContactInfo](#)
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- [IntlPhoneEmailLists](#)
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- [PriceInfoNew](#)
- [RegistrantContact](#)
- [TechnicalContact](#)

Introduction

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There are tens of millions of hosts on the internet. An IP address is allocated to each host to distinguish them from one another. However, an IP address doesn't have any actual meaning to it, which makes it hard to remember, and this is why domain names come into play.

A domain name, comprised of letters, digits, `-`, `.`, and other symbols, is an easy-to-remember server address (such as website, email, and FTP) designed for better communication.

A domain name corresponds to an IP. A specialized domain name system (DNS) server on the internet is used to translate between domain names and IPs. When you enter a domain name in your browser, DNS will translate it into an IP to locate the appropriate server and open the requested page.

If you want to set up a server to publish information on the internet, you need to register a domain name first, which is a basic for establishing services on the internet. Since domain names are registered on a "first-come, first-served" basis and every registered domain name must be unique on the internet, you are advised to register your domain names as soon as possible.

API Category

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Domain Management APIs

API Name	Feature	Frequency Limit
DescribeIntlBatchOperationLogs	Queries the logs of bulk domain purchase	20
DescribeIntlDomainBatchDetails	Gets the log details of bulk domain purchase	20

Domain Query APIs

API Name	Feature	Frequency Limit
CheckIntlDomainNew	Checks whether a domain is available for registration	20
DescribeIntlDomainPriceNewList	Gets the price list by domain suffix	20

Other APIs

API Name	Feature	Frequency Limit
CreateIntlPhoneEmail	Verifies a mobile number or an email address via a verification code	20
DeleteIntlPhoneEmail	Deletes a mobile number or an email address	20
DeleteIntlTemplate	Deletes a registrant profile	20
DescribeIntlBatchDetailStatus	Queries the status of a bulk task	20
DescribeIntlDomain	Queries domain information	20
DescribeIntlDomainList	Queries the "My domains" list	20
DescribeIntlPhoneEmailList	Gets the list of verified mobile numbers and email addresses	20

DescribeIntlTemplate	Gets the details of a registrant profile	20
ModifyOwnerIntlBatch	Bulk transfers domains to another account	20
RenewIntlDomainBatch	Bulk renews domains	20
SendIntlPhoneEmailCode	Sends a verification code to a mobile number or an email address	20
SetIntlDomainAutoRenew	Sets auto-renewal	20
TransferProhibitionIntlBatch	Bulk sets transfer prohibition for domains	20
UpdateProhibitionIntlBatch	Bulk sets update prohibition for domains	20

Bulk Operation APIs

API Name	Feature	Frequency Limit
BatchModifyIntlDomainDNS	Bulk modifies DNS servers for domains	20
BatchModifyIntlDomainInfo	Bulk modifies registrant information	20
TransferInIntlDomainBatch	Bulk transfers domains in	20
CreateIntlDomainBatch	Bulk registers domains	20

Registrant Profile APIs

API Name	Feature	Frequency Limit
CreateIntlTemplate	Adds a registrant profile	20
DescribeIntlTemplateList	Gets the list of registrant profiles	20

Making API Requests

Request Structure

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1. Service Address

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

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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

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

Common parameters for Signature Algorithm v3

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

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter <code>Action</code> in the input parameters in 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 common 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 API documentation), and will not take effect even if 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 valid version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request;host, 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 UNIX 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.tencent 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=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
```

```
Content-Type: multipart/form-data; boundary=58731222010402
```

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

```
X-TC-Action: DescribeInstances
```

```
X-TC-Version: 2017-03-12
```

```
X-TC-Timestamp: 1527672334
```

```
X-TC-Region: ap-guangzhou
```

```
--58731222010402
```

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

```
0
```

```
--58731222010402
```

```
Content-Disposition: form-data; name="Limit "
```

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter <code>Region</code> in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.

Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with <code>Timestamp</code> to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).
Signature	String	Yes	Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.
Version	String	Yes	API version of the action. For the valid values, see the description of the common input parameter <code>Version</code> in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

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

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=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=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Signature v3

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	<p>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>.</p> <p>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.</p>
CanonicalHeaders	<p>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.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> 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). <p>The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>.</p> <p>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.</p>
SignedHeaders	<p>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.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> 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 (;). <p>The value in this example is <code>content-type;host</code></p>
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 pay
of the HTTP request, performing hexadecimal encoding, and finally converting the encc
string to lowercase letters. For GET requests, RequestPayload is always an empt
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 TC3-HMAC-SHA256 .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter X-TC-Timestamp in request header, which is the UNIX timestamp of the current time in seconds, such as 1551113065 in this example.
CredentialScope	Scope of the credential in the format of Date/service/tc3_request , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; service is the product name, which should match the domain name of the product called. The calculation result in this example is 20180525/cvm/tc3_request .

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., Gu5t9xGARNpq86cd98joQYCN3*****.
Date	The Date field information in Credential, such as 2019-02-25 in this example.

Service	Value in the Service field in <code>Credential</code> , such as <code>cvm</code> in this example.
---------	---

2. Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is always <code>TC3-HMAC-SHA256</code> .
SecretId	The SecretId in the key pair, i.e., <code>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&InstanceIds.0=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.utcnow().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

```
<?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 OPENSSSL_VERSION_NUMBER < 0x10100000L
    HMAC_CTX hmac;
    HMAC_CTX_init(&hmac);
    h = &hmac;
    #else
    h = HMAC_CTX_new();
    #endif

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

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

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

    return (ss.str());
}
string HexEncode(const string &input)
{
    static const char* 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

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

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

1. Applying for Security Credentials

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

Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.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>(p
    am, 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

最近更新时间：2023-03-28 10:48:33

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

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

Domain Management APIs

DescribeIntlBatchOperationLogs

最近更新时间：2023-03-28 10:53:04

1. API Description

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

This API is used to query the logs of bulk domain purchase.

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: DescribeIntlBatchOperationLogs.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	No	Integer	The offset. Default value: 0
Limit	No	Integer	The number of returned results. Default value: 20. Maximum value: 100.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The total count.
DomainBatchLogSet	Array of BatchDomainBuyLog	The 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 logs of bulk domain purchase

Input Example

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

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

Output Example

```
{
  "Response": {
    "TotalCount": 204,
    "DomainBatchLogSet": [
      {
        "LogId": 318,
        "Action": "new",
        "CreatedOn": "2020-06-10 20:08:43",
        "Number": 12,
        "Status": "doing"
      }
    ],
    "RequestId": "1af07f55-2b13-4076-a301-74c2480f7af7"
  },
}
```

```
"ResultStatus": 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 NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InternalServerError.DomainInternalServerError	Network error. Please try again later.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.NeedLogin	Login is required.
InternalServerError.ReadBodyError	Failed to read the body.

InvalidParameter	Invalid parameter.
MissingParameter.ActionNotFound	The route is not defined.

DescribeIntlDomainBatchDetails

最近更新时间：2023-03-28 10:53:04

1. API Description

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

This API is used to get the log details of bulk domain purchase.

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: DescribeIntlDomainBatchDetails.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
LogId	Yes	Integer	The log ID.
Offset	No	Integer	The offset. Default value: 0
Limit	No	Integer	The number of returned results. Default value: 20. Maximum value: 100.
OrderByKey	No	String	The sort key. Valid values: <code>Domain</code> , <code>UpdateOn</code> , <code>Status</code>
OrderBy	No	Integer	Valid values: <code>0</code> (ascending), <code>1</code> (descending).

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The total count.
DomainBatchDetailSet	Array of BatchDomainBuyDetails	The list of log details. 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 log details of bulk domain purchase

Input Example

```

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

{
  "LogId": 1,
  "Limit": 0,
  "Offset": 0
}
    
```

Output Example

```

{
  "Response": {
    "TotalCount": 12,
    "RequestId": "13f43fa6-7282-4652-a99c-66819145ba5f",
    "DomainBatchDetailSet": [
      {
        "Status": "doing",
        "Domain": "batchzz426.club",
        "UpdatedOn": "2020-06-10 20:08:50",
        "CreatedOn": "2020-06-10 20:08:44",
      }
    ]
  }
}
    
```

```

"Reason": "",
"ReasonZh": "",
"Action": "new",
"Id": 85215
}
]
}
}
    
```

5. Developer Resources

SDK

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

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InternalServerError.DomainInternalServerError	Network error. Please try again later.
InternalServerError.ForbiddenRequest	Forbidden request.
InvalidParameter	Invalid parameter.

Domain Query APIs

CheckIntlDomainNew

最近更新时间：2023-03-28 10:53:04

1. API Description

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

This API is used to check whether a domain is available for registration.

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: CheckIntlDomainNew.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Domain	Yes	String	The name of the domain to be checked.
Period	No	String	Period, in years. If this parameter is left empty, premium domains cannot be queried.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
DomainName	String	The name of the domain checked.
Available	Boolean	Whether the domain is available for registration.
Reason	String	The reason why the domain cannot be registered.
Premium	Boolean	Whether the domain is a premium one.
Price	Float	The domain price.
BlackWord	Boolean	Whether the domain name involves restricted words.
Describe	String	The premium domain description. Note: This field may return null, indicating that no valid values can be obtained.
FeeRenew	Float	The price for renewing the premium domain. Note: This field may return null, indicating that no valid values can be obtained.
RealPrice	Float	The real price of the domain. For a premium domain, its price varies depending on the period. For a non-premium domain, the price is the 1-year price. Note: This field may return null, indicating that no valid values can be obtained.
FeeTransfer	Float	The price for transferring a premium domain in. Note: This field may return null, indicating that no valid values can be obtained.
FeeRestore	Float	The price for redeeming a premium domain.
Period	Integer	The period (in years) of the domain.
ReasonZh	String	The reason why the domain cannot be registered, expressed in Chinese.
ResCode	String	The internal error code.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Checking whether a domain is available for registration

This example shows you how to check whether a domain is available for registration.

Input Example

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

{
  "Domain": "mervyn111.com",
  "Period": 1
}
```

Output Example

```
{
  "Response": {
    "Available": true,
    "Premium": false,
    "DomainName": "Example.show",
    "FeeTransfer": 0,
    "Describe": "",
    "FeeRestore": 0,
    "Period": 1,
    "Reason": "",
    "ReasonZh": "",
    "RequestId": "cc5af1aa-544c-11ea-9bcb-525400f1e866",
    "RealPrice": 10,
    "BlackWord": false,
    "Price": 35,
    "ResCode": "1002",
    "FeeRenew": 0
  }
}
```

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.CheckDomainFailed	Domain name query failed. Please try this feature again later.
InternalServerError.CheckDnAvailableErr	Failed to get check data.
InternalServerError.DomainInternalServerError	Network error. Please try again later.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.NeedLogin	Login is required.
InternalServerError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
InvalidParameter.DomainNameIsInvalid	The domain is empty or incorrect.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.
MissingParameter.DomainIsEmpty	The domain cannot be empty.

DescribeIntlDomainPriceNewList

最近更新时间：2023-03-28 10:53:04

1. API Description

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

This API is used to get the price list by domain suffix.

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: DescribeIntlDomainPriceNewList.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
TidList.N	No	Array of String	The list of domain suffixes for which you want to query prices. This parameter defaults to all suffixes.
Year.N	No	Array of Integer	The purchase year of the domains for which you want to query prices. This parameter defaults to all years.
Operation.N	No	Array of String	The domain purchase type. Valid values: <code>new</code> , <code>renew</code> , <code>redem</code> (redeem), <code>tran</code> (transfer in).

3. Output Parameters

Parameter Name	Type	Description
PriceList	Array of PriceInfoNew	The price list of domains.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the price list of domains

This example shows you how to get the price list of domains.

Input Example

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

Output Example

```
{
  "Response": {
    "PriceList": [
      {
        "Price": 1,
        "RealPrice": 1,
        "Year": 1,
        "Operation": "xx",
        "Tld": "xx"
      },
      {
        "Price": 1,
        "Operation": "xx",
        "RealPrice": 1,
        "Tld": "xx",
        "Year": 1
      },
      {
        "Price": 1,
```



```
{  
  "Price": 1,  
  "Operation": "xx",  
  "RealPrice": 1,  
  "Tld": "xx",  
  "Year": 1  
},  
{  
  "Price": 1,  
  "Operation": "xx",  
  "RealPrice": 1,  
  "Tld": "xx",  
  "Year": 1  
},  
{  
  "Price": 1,  
  "Operation": "xx",  
  "RealPrice": 1,  
  "Tld": "xx",  
  "Year": 1  
},  
{  
  "Price": 1,  
  "Operation": "xx",  
  "RealPrice": 1,  
  "Tld": "xx",  
  "Year": 1  
},  
{  
  "Price": 1,  
  "Operation": "xx",  
  "RealPrice": 1,  
  "Tld": "xx",  
  "Year": 1  
},  
{  
  "Price": 1,  
  "Operation": "xx",  
  "RealPrice": 1,  
  "Tld": "xx",  
  "Year": 1  
},  
{  
  "Price": 1,  
  "Operation": "xx",  
  "RealPrice": 1,  
  "Tld": "xx",  
  "Year": 1  
}
```



```

"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{

```



```

},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},

```



```
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
"Operation": "xx",
"RealPrice": 1,
"Tld": "xx",
"Year": 1
},
{
"Price": 1,
```



```
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
},
{
  "Price": 1,
  "Operation": "xx",
  "RealPrice": 1,
  "Tld": "xx",
  "Year": 1
}
```

```
"Year": 1
}
],
"RequestId": "xx"
}
}
```

Example2 Request successful

Request successful

Input Example

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

{
  "Operation": [
    "renew"
  ],
  "TldList": [
    ".com"
  ],
  "Year": [
    "1"
  ]
}
```

Output Example

```
{
  "Response": {
    "PriceList": [
      {
        "Price": 0.0,
        "RealPrice": 0.0,
        "Year": 1,
        "Operation": "xx",
        "Tld": "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.

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DomainPriceListFailed	Failed to get the domain price list.
InternalError	Internal error.
InternalError.DomainInternalError	Network error. Please try again later.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.JsonMarshal	Error in converting to JSON.
InternalError.MethodNotMatch	Method mismatch.
InternalError.ReadBodyError	Failed to read the body.

InvalidParameter	Invalid parameter.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

Bulk Operation APIs

BatchModifyIntlDomainDNS

最近更新时间：2023-03-28 10:53:05

1. API Description

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

This API is used to bulk modify DNS servers for domains.

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: BatchModifyIntlDomainDNS.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Domains.N	Yes	Array of String	The target domains.
Dns.N	Yes	Array of String	The domain DNS array.
BatchAction	No	String	Valid values: <code>batch_modify_domain_dns1</code> ,

```
batch_modify_domain_dns2 ,
batch_modify_domain_dns3
```

3. Output Parameters

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

4. Example

Example1 Bulk modifying DNS servers for domains

Input Example

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

{
  "Domains": [
    "h101.tencent.com"
  ],
  "Dns": [
    "f1g1ns2.dnspod.net",
    "f1g1ns2.dnspod.net"
  ]
}
```

Output Example

```
{
  "Response": {
    "LogId": 54,
    "RequestId": "ac64c5c2-c0f0-11ea-ba13-080027f4585e"
  }
}
```



```
}  
}
```

5. Developer Resources

SDK

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

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.SetDomainDnsFailed	Failed to modify the DNS server. Enter a correct DNS server address.
InternalError	Internal error.
InternalError.DomainInternalError	Network error. Please try again later.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.JsonMarshal	Error in converting to JSON.

InternalError.MethodNotMatch	Method mismatch.
InternalError.NeedLogin	Login is required.
InternalError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
InvalidParameter.DomainNameIsInvalid	The domain is empty or incorrect.
InvalidParameter.UpTo4000	The number of domains cannot exceed 4,000.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter	Missing parameter.
MissingParameter.ActionNotFound	The route is not defined.
MissingParameter.DomainIsEmpty	The domain cannot be empty.
MissingParameter.RepDataIsNone	The request data cannot be empty.
ResourceNotFound.DomainNotFound	The domain address is incorrect. Please enter a correct one.
ResourceUnavailable.DomainIsModifyingDNS	Unable to perform this operation because an operation of the same type is in progress for this domain.
UnsupportedOperation.ModifyDomainInfoOperateUnsupported	This operation is unavailable under the current domain status.
UnsupportedOperation.ModifyDomainInfoUnsupported	Modification is unavailable under the current domain status.
UnsupportedOperation.ModifyDomainUnsupported	Modification is unavailable under the current domain status.

BatchModifyIntlDomainInfo

最近更新时间：2023-03-28 10:53:05

1. API Description

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

This API is used to bulk modify registrant 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: BatchModifyIntlDomainInfo.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Domains.N	Yes	Array of String	The domains whose information is to be modified.
TemplateId	Yes	String	The profile ID.
LockTransfer	No	Boolean	Whether to enable the 60-day inter-registrar transfer lock.

3. Output Parameters

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

4. Example

Example1 Bulk modifying registrant information

Input Example

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

{
  "TemplateId": "tmpl-xxxxx",
  "Domains": [
    "h101.tencent.com"
  ]
}
```

Output Example

```
{
  "Response": {
    "LogId": 318,
    "RequestId": "1684afa4-0bf7-49f8-a630-ab460e5c038e"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalServerError	Internal error.
InternalServerError.DomainInternalServerError	Network error. Please try again later.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.NeedLogin	Login is required.
InternalServerError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
InvalidParameter.UpTo4000	The number of domains cannot exceed 4,000.
MissingParameter	Missing parameter.
MissingParameter.ActionNotFound	The route is not defined.

MissingParameter.DomainIsEmpty	The domain cannot be empty.
MissingParameter.RepDataIsEmpty	The request data cannot be empty.
MissingParameter.TemplateIdIsEmpty	The profile ID is empty or invalid.
ResourceInsufficient.Overwork	Too many tasks are being executed. Please submit new ones later.
ResourceNotFound.ApprovedTemplateNotFound	The identity is not verified for the profile.
ResourceNotFound.TemplateNotFound	The profile information is incorrect. Please set information correctly.

CreateIntlDomainBatch

最近更新时间：2023-04-03 18:06:22

1. API Description

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

This API is used to bulk register domains.

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: CreateIntlDomainBatch.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
TemplateId	Yes	String	The profile ID.
Period	Yes	Integer	The purchase period (years) of the domain. Value range: [1-10]
Domains.N	Yes	Array of String	The domains (maximum 4,000) to purchase.
PayMode	Yes	Integer	The payment method. Valid values: <code>0</code> (online payment), <code>1</code> (account balance), <code>2</code> (package), <code>3</code> (offline settlement).
AutoRenewFlag	No	Boolean	Whether to enable auto-renewal.

TransferProhibition	No	Boolean	Whether to enable the transfer prohibition lock.
UpdateProhibition	No	Boolean	Whether to enable the update prohibition lock.
CustomDns.N	No	Array of String	The custom DNS servers

3. Output Parameters

Parameter Name	Type	Description
LogId	Integer	The bulk purchase log ID. 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 Bulk registering domains

This example shows you how to bulk register domains.

Input Example

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

{
  "Domains": [
    "a.com"
  ],
  "PayMode": 0,
  "Period": 1,
  "TemplateId": "tmpl-aabb"
}
```

Output Example


```
{
  "Response": {
    "LogId": 318,
    "RequestId": "1684afa4-0bf7-49f8-a630-ab460e5c038e"
  }
}
```

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 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.RegisterDomain	Domain registration failed. Please try again later.
FailedOperation.RegisterDomainFailed	Domain registration failed. Please try again later.
InternalError	Internal error.

InternalError.DomainInternalError	Network error. Please try again later.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.JsonMarshal	Error in converting to JSON.
InternalError.MethodNotMatch	Method mismatch.
InternalError.NeedLogin	Login is required.
InternalError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
InvalidParameter.CustomDnsNotAllowed	You have no permission to customize DNS servers.
InvalidParameter.PackageResourceIdInvalid	Invalid package ID.
InvalidParameter.UpTo4000	The number of domains cannot exceed 4,000.
MissingParameter	Missing parameter.
MissingParameter.ActionNotFound	The route is not defined.
MissingParameter.DomainIsEmpty	The domain cannot be empty.
MissingParameter.RepDataIsEmpty	The request data cannot be empty.
MissingParameter.TemplateIdIsEmpty	The profile ID is empty or invalid.
ResourceInsufficient.Overwork	Too many tasks are being executed. Please submit new ones later.
ResourceNotFound.TemplateNotFound	The profile information is incorrect. Please set information correctly.

TransferInIntlDomainBatch

最近更新时间：2023-03-28 10:53:05

1. API Description

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

This API is used to bulk transfer domains in.

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: TransferInIntlDomainBatch.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
TemplateId	Yes	String	The profile ID.
PassWords.N	Yes	Array of String	The transfer passwords for the domains.
Domains.N	Yes	Array of String	The domains to be bulk transferred in.
PayMode	Yes	Integer	The payment method. Valid value: <code>1</code> (account balance).
AutoRenewFlag	No	Boolean	Whether to enable auto-renewal.

TransferProhibition	No	Boolean	Whether to enable the transfer prohibition lock.
UpdateProhibition	No	Boolean	Whether to enable the update prohibition lock.
LockTransfer	No	Boolean	Whether to enable the 60-day inter-registrar transfer lock.

3. Output Parameters

Parameter Name	Type	Description
LogId	Integer	The bulk purchase log ID. 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 Bulk transferring domains in

Input Example

```

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

{
  "Domains": [
    "xx"
  ],
  "PayMode": 0,
  "PassWords": [
    "xx"
  ],
  "TemplateId": "xx"
}
    
```

Output Example

```
{
  "Response": {
    "LogId": 318,
    "RequestId": "1684afa4-0bf7-49f8-a630-ab460e5c038e"
  }
}
```

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.TransferInDomainFailed	Failed to transfer the domain in. Please try again later.
InternalServerError.DomainInternalError	Network error. Please try again later.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.

InternalError.MethodNotMatch	Method mismatch.
InternalError.NeedLogin	Login is required.
InternalError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
InvalidParameter.UpTo4000	The number of domains cannot exceed 4,000.
MissingParameter.ActionNotFound	The route is not defined.
ResourceInsufficient.Overwork	Too many tasks are being executed. Please submit new ones later.
ResourceNotFound.TemplateNotFound	The profile information is incorrect. Please set information correctly.

Registrant Profile APIs

CreateIntlTemplate

最近更新时间：2023-03-28 10:53:00

1. API Description

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

This API is used to add a registrant profile.

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: CreateIntlTemplate.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
RegistrantContact	Yes	RegistrantContact	The registrant contact.
AdminContact	Yes	AdminContact	The admin contact.
TechnicalContact	Yes	TechnicalContact	The technical contact.
BillingContact	Yes	BillingContact	The contact person for bills.

TemplateType	No	String	The profile type. Valid values: I (individual, default), E (organization).
--------------	----	--------	--

3. Output Parameters

Parameter Name	Type	Description
TemplateId	String	The profile 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 registrant profile

Input Example

```

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

{
  "RegistrantContact": {
    "Province": "xx",
    "City": "xx",
    "Fax": "xx",
    "AddressLine": "xx",
    "FirstName": "xx",
    "CompanyName": "xx",
    "JobTitle": "xx",
    "ZipCode": "xx",
    "AddressLineTwo": "xx",
    "Country": "xx",
    "LastName": "xx",
    "Phone": "xx",
    "Email": "xx"
  },
  "BillingContact": {

```



```
"Province": "xx",
"City": "xx",
"Fax": "xx",
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"TechnicalContact": {
"Province": "xx",
"City": "xx",
"Fax": "xx",
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"AdminContact": {
"Province": "xx",
"City": "xx",
"Fax": "xx",
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
}
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx",
    "TemplateId": "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.

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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.CreateTemplateFailed	Failed to create the registrant profile.
FailedOperation.DescribeDomainListFailed	Failed to get the domain information. Please try again later.

FailedOperation.DescribeTemplateFailed	Failed to query the registrant profile.
FailedOperation.TemplateMaxNumFailed	The number of registrant profiles has reached the maximum number allowed. Delete a profile and try again.
InternalServerError	Internal error.
InternalServerError.DomainInternalServerError	Network error. Please try again later.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.NeedLogin	Login is required.
InternalServerError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
InvalidParameter.CertificateCodeIsInvalid	Incorrect qualification information.
InvalidParameter.CertificateImageIsInvalid	Incorrect qualification photo.
InvalidParameter.EmailsInvalid	The email address is empty or incorrect.
InvalidParameter.FirstNameIsInvalid	The first name is empty or incorrect.
InvalidParameter.LastNameIsInvalid	The last name is empty or incorrect.
InvalidParameter.NamesInvalid	The contact person is empty or incorrect.
InvalidParameter.OrgIsInvalid	The registrant is empty or incorrect.
InvalidParameter.RepTypeIsInvalid	Invalid request type.
InvalidParameter.StreetIsInvalid	Incorrect address. Please enter a correct one.
InvalidParameter.TelephoneIsInvalid	The mobile number is empty or invalid.
InvalidParameter.UserTypeIsInvalid	The user type is empty or invalid.
InvalidParameter.ZipCodeIsInvalid	The zip code is empty or invalid.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter	Missing parameter.
MissingParameter.ActionNotFound	The route is not defined.

MissingParameter.DomainIsEmpty	The domain cannot be empty.
MissingParameter.RepDataIsEmpty	The request data cannot be empty.
MissingParameter.TemplateIdIsEmpty	The profile ID is empty or invalid.
MissingParameter.TemplateIdExists	This profile already exists.
ResourceNotFound	The resource doesn't exist.
ResourceNotFound.TemplateNotFound	The profile information is incorrect. Please set information correctly.

DescribeIntlTemplateList

最近更新时间：2023-03-28 10:53:00

1. API Description

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

This API is used to get the list of registrant profiles.

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: DescribeIntlTemplateList.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	No	Integer	The offset.
Limit	No	Integer	The maximum number of entries.
Keyword	No	String	The domain registrant keyword for exact match.
Type	No	String	The type. Valid values: <code>all</code> (all types), <code>I</code> (individual), <code>E</code> (organization).

3. Output Parameters

Parameter Name	Type	Description
TemplateSet	Array of IntlTemplate	The registrant profile list information.
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 Getting the list of registrant profiles

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 0,
    "TemplateSet": [
      {
        "RegistrantContact": {
          "Province": "xx",
          "City": "xx",
          "Fax": "xx",
          "AddressLine": "xx",
          "FirstName": "xx",
          "CompanyName": "xx",
          "JobTitle": "xx",
          "ZipCode": "xx",

```

```
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"TechnicalContact": {
"Province": "xx",
"City": "xx",
"Fax": "xx",
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"CreatedOn": "2020-09-22 00:00:00",
"TemplateId": "xx",
"AdminContact": {
"Province": "xx",
"City": "xx",
"Fax": "xx",
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"BillingContact": {
"Province": "xx",
"City": "xx",
"Fax": "xx",
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
```

```
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"UpdatedOn": "2020-09-22 00:00:00",
"IsDefault": 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.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.DomainInternalError	Network error. Please try again later.

InternalError.ForbiddenRequest	Forbidden request.
InvalidParameter	Invalid parameter.

Other APIs

CreateIntlPhoneEmail

最近更新时间：2023-03-28 10:53:04

1. API Description

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

This API is used to verify a mobile number or an email address via a verification code.

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: CreateIntlPhoneEmail.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Type	Yes	Integer	The type. Valid values: <code>1</code> (mobile number), <code>2</code> (email address).
Code	Yes	String	The mobile number or email address.
VerifyCode	Yes	String	The verification code.

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 Verifying a mobile number or an email address via a verification code

Input Example

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

{
  "Type": 1,
  "Code": "18766554433",
  "VerifyCode": "123456"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459398"
  }
}
```

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 Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.AddPhoneEmailErr	Failed to add the mobile number or email address.
InternalServerError.CheckVerifyCodeErr	Failed to verify the verification code.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.NeedLogin	Login is required.
InternalServerError.ReadBodyError	Failed to read the body.
InternalServerError.VerifiedPhoneEmailErr	The mobile number or email address has already been verified.
InternalServerError.VerifyCodeErr	Incorrect verification code.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

DeleteIntlPhoneEmail

最近更新时间：2023-03-28 10:53:03

1. API Description

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

This API is used to delete a mobile number or an email address.

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: DeleteIntlPhoneEmail.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Type	Yes	Integer	The type. Valid values: <code>1</code> (mobile number), <code>2</code> (email address).
Code	Yes	String	The mobile number or email address.

3. Output Parameters

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

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

4. Example

Example1 Deleting a mobile number or an email address

Input Example

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

{
  "Type": 1,
  "Code": "18766554433"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459398"
  }
}
```

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
InternalError.DeletePhoneEmailVerifyErr	Failed to delete the mobile number or email address.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.JsonMarshal	Error in converting to JSON.
InternalError.MethodNotMatch	Method mismatch.
InternalError.NeedLogin	Login is required.
InternalError.ReadBodyError	Failed to read the body.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

DeleteIntlTemplate

最近更新时间：2023-03-28 10:53:03

1. API Description

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

This API is used to delete a registrant profile.

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: DeleteIntlTemplate.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
TemplateId	Yes	String	The unique ID of the target registrant profile.

3. Output Parameters

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

4. Example

Example1 Deleting a registrant profile

Input Example

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

{
  "TemplateId": "template-1000q"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459398"
  }
}
```

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
InternalError.DeleteTemplateErr	Failed to delete the registrant profile.
InternalError.DescribeTemplateErr	Failed to get the details of the registrant profile.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.MethodNotMatch	Method mismatch.
InternalError.ReadBodyError	Failed to read the body.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

DescribeIntlBatchDetailStatus

最近更新时间：2023-03-28 10:53:03

1. API Description

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

This API is used to query the status of a bulk task.

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: DescribeIntlBatchDetailStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
LogIds.N	Yes	Array of Integer	The IDs of the logs to be queried.

3. Output Parameters

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

Details	Array of IntlBatchDetails	The details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the status of a bulk task

Input Example

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

{
  "LogIds": [
    12,
    13
  ]
}
```

Output Example

```
{
  "Response": {
    "Details": [
      {
        "Id": 12,
        "Status": "doing",
        "Reason": "",
        "ReasonZh": ""
      }
    ],
    "RequestId": "121323"
  }
}
```

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 PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.DomainInternalServerError	Network error. Please try again later.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.NeedLogin	Login is required.
InternalServerError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
MissingParameter.ActionNotFound	The route is not defined.

DescribeIntlDomain

最近更新时间：2023-03-28 10:53:03

1. API Description

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

This API is used to query domain 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: DescribeIntlDomain.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
DomainId	Yes	String	The domain ID.

3. Output Parameters

Parameter Name	Type	Description
DomainInfo	IntlDomainInfo	The domain information.

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

4. Example

Example1 Querying domain information

Input Example

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

{
  "DomainId": 0
}
```

Output Example

```
{
  "Response": {
    "DomainInfo": {
      "Status": "xx",
      "IsPremium": false,
      "DomainId": "xx",
      "CanRenewYears": 0,
      "DomainName": "xx",
      "RegistrarType": "xx",
      "ModifyStatus": "xx",
      "DnsModifyStatus": "xx",
      "TemplateId": "xx",
      "WhoisPrivacy": 0,
      "DomainStatus": [
        ""
      ],
      "Uin": "xx",
      "AutoRenew": 3,
      "ExpirationDate": "xx",
      "Dns": [
        "f1g1ns1.dnspod.net"
      ],
      "ExpireMessage": 3,
    }
  }
}
```

```
"DnsStatus": 3,
"ContactInfo": {
  "Province": "xx",
  "City": "xx",
  "OrganizationName": "xx",
  "FirstName": "xx",
  "RegistrantType": "xx",
  "Country": "xx",
  "CompanyName": "xx",
  "RegistrantName": "xx",
  "Telephone": "xx",
  "ZipCode": "xx",
  "Street": "xx",
  "LastName": "xx",
  "Email": "xx"
},
"SupportDnssec": true,
"CreationDate": "xx"
},
"RequestId": "xx"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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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
InternalServerError.DescribeDomainInfoErr	Failed to query the domain information.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.ReadBodyError	Failed to read the body.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

DescribeIntlDomainList

最近更新时间：2023-03-28 10:53:02

1. API Description

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

This API is used to query the "My domains" 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: DescribeIntlDomainList.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Offset	No	Integer	The page number in pagination cases.
Limit	No	Integer	The number of records on each page in pagination cases.
KeyWord	No	String	The domain keyword for fuzzy search.
OrderByRegTime	No	Integer	The registration time sort order. Valid values: 1 (descending), 2 (ascending).
OrderByExpireTime	No	Integer	The expiration time sort order. Valid values: 1 (descending), 2 (ascending).

Status	No	String	The domain status. <code>all</code> : All domains. <code>UrgentNeedRenew</code> : The domains that are in urgent need of renewal. <code>RedemptionPending</code> : The domains that are in urgent need of redemption. <code>nosubmit</code> : The domains with unverified identities. <code>tran</code> : The domains that are being transferred in.
DnsStatus	No	Integer	The DNS type. Valid values: <code>1</code> (DNSPod), <code>2</code> (others).
OrderByDomainName	No	Integer	The domain sort order. Valid values: <code>1</code> (descending), <code>2</code> (ascending).

3. Output Parameters

Parameter Name	Type	Description
DomainSet	Array of IntlDomainInfo	The domain information set.
TotalCount	Integer	The total number of domains.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the list of domains

Input Example

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

{
  "Offset": 20,
```

```
"Limit": 30
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "DomainSet": [
      {
        "Status": "xx",
        "IsPremium": true,
        "DomainId": "xx",
        "CanRenewYears": 0,
        "DomainName": "xx",
        "RegistrarType": "xx",
        "ModifyStatus": "xx",
        "DnsModifyStatus": "xx",
        "TemplateId": "xx",
        "WhoisPrivacy": 0,
        "DomainStatus": [
          "xx"
        ],
        "Uin": "xx",
        "AutoRenew": 0,
        "ExpirationDate": "xx",
        "Dns": [
          "xx"
        ],
        "ExpireMessage": 0,
        "DnsStatus": 0,
        "ContactInfo": {
          "Province": "xx",
          "City": "xx",
          "OrganizationName": "xx",
          "FirstName": "xx",
          "RegistrantType": "xx",
          "Country": "xx",
          "CompanyName": "xx",
          "RegistrantName": "xx",
          "Telephone": "xx",
          "ZipCode": "xx",
          "Street": "xx",
          "LastName": "xx",
          "Email": "xx"
        }
      }
    ],
    "ExpireMessage": 0,
    "DnsStatus": 0,
    "ContactInfo": {
      "Province": "xx",
      "City": "xx",
      "OrganizationName": "xx",
      "FirstName": "xx",
      "RegistrantType": "xx",
      "Country": "xx",
      "CompanyName": "xx",
      "RegistrantName": "xx",
      "Telephone": "xx",
      "ZipCode": "xx",
      "Street": "xx",
      "LastName": "xx",
      "Email": "xx"
    }
  }
}
```

```
"SupportDnssec": true,
"CreationDate": "xx"
},
"RequestId": "xx"
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
InternalError.DescribeDomainListErr	Failed to query the "My domains" list.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.MethodNotMatch	Method mismatch.
InternalError.ReadBodyError	Failed to read the body.

InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

DescribeIntlPhoneEmailList

最近更新时间：2023-03-28 10:53:02

1. API Description

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

This API is used to get the list of verified mobile numbers and email addresses.

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: DescribeIntlPhoneEmailList.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Type	Yes	Integer	The type. Valid values: <code>1</code> (mobile number), <code>2</code> (email address).
Limit	No	Integer	The number of records on each page in pagination cases.
Offset	No	Integer	The page number in pagination cases.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
PhoneEmailList	Array of IntlPhoneEmailLists	The list of verified mobile numbers and email addresses.
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 Getting the list of verified mobile numbers and email addresses

Input Example

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

{
  "Type": 2,
  "Limit": 30,
  "Offset": 0
}
```

Output Example

```
{
  "Response": {
    "PhoneEmailList": [
      {
        "Code": "1234567@test.com",
        "Type": 2,
        "CreatedOn": "2021-11-10 14:42:12"
      }
    ],
    "TotalCount": 1,
    "RequestId": "eac6b301-a322-493a-8e36-83b295459398"
  }
}
```


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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.DescribePhoneEmailListErr	Failed to get the list of verified mobile numbers and email addresses.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.JsonMarshal	Error in converting to JSON.
InternalError.MethodNotMatch	Method mismatch.
InternalError.NeedLogin	Login is required.
InternalError.ReadBodyError	Failed to read the body.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

DescribeIntlTemplate

最近更新时间：2023-03-28 10:53:02

1. API Description

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

This API is used to get the details of a registrant profile.

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: DescribeIntlTemplate.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
TemplateId	Yes	String	The unique ID of a registrant profile.

3. Output Parameters

Parameter Name	Type	Description
Template	IntlTemplateInfo	The details of the registrant profile.

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

4. Example

Example1 Getting the details of a registrant profile

Input Example

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

{
  "TemplateId": "template-1000q"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx",
    "Template": {
      "RegistrantContact": {
        "Province": "xx",
        "City": "xx",
        "Fax": "xx",
        "AddressLine": "xx",
        "FirstName": "xx",
        "CompanyName": "xx",
        "JobTitle": "xx",
        "ZipCode": "xx",
        "AddressLineTwo": "xx",
        "Country": "xx",
        "LastName": "xx",
        "Phone": "xx",
        "Email": "xx"
      },
      "TechnicalContact": {
        "Province": "xx",
        "City": "xx",
        "Fax": "xx",

```

```
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"CreatedOn": "2020-09-22 00:00:00",
"AdminContact": {
"Province": "xx",
"City": "xx",
"Fax": "xx",
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"Uin": "xx",
"TemplateId": "xx",
"BillingContact": {
"Province": "xx",
"City": "xx",
"Fax": "xx",
"AddressLine": "xx",
"FirstName": "xx",
"CompanyName": "xx",
"JobTitle": "xx",
"ZipCode": "xx",
"AddressLineTwo": "xx",
"Country": "xx",
"LastName": "xx",
"Phone": "xx",
"Email": "xx"
},
"UpdatedOn": "2020-09-22 00:00:00",
"IsDefault": 0
}
```

```
}  
}
```

Example2 Getting the details of a registrant profile - failed

Input Example

```
POST / HTTP/1.1  
Host: domain.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: DescribeIntlTemplate  
<Common request parameters>  
  
{  
  "TemplateId": "template-1000q"  
}
```

Output Example

```
{  
  "Response": {  
    "RequestId": "2f36ac98-07f4-4fef-9124-aed4820f5d39"  
  }  
}
```

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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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.DescribeTemplateErr	Failed to get the details of the registrant profile.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.MethodNotMatch	Method mismatch.
InternalError.ReadBodyError	Failed to read the body.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

ModifyOwnerIntlBatch

最近更新时间：2023-03-28 10:53:02

1. API Description

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

This API is used to bulk transfer domains to another account.

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: ModifyOwnerIntlBatch.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Domains.N	Yes	Array of String	The domains.
ToUin	Yes	String	The user ID.
DnsTransfer	No	Boolean	Whether to transfer the DNS service.

3. Output Parameters

Parameter Name	Type	Description
LogId	Integer	The ID of the bulk task.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Bulk transferring domains to another account

Input Example

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

{
  "Domains": [
    "test1.com",
    "test2.com"
  ],
  "ToUin": "109619400",
  "DnsTransfer": true
}
```

Output Example

```
{
  "Response": {
    "LogId": 4,
    "RequestId": "121323"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.DomainInternalError	Network error. Please try again later.
InternalServerError.DomainTransferErr	Domain transfer failed.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.NeedLogin	Login is required.
InternalServerError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
InvalidParameter.UpTo4000	The number of domains cannot exceed 4,000.
MissingParameter.ActionNotFound	The route is not defined.
ResourceInsufficient.Overwork	Too many tasks are being executed. Please submit new ones later.

RenewIntlDomainBatch

最近更新时间：2023-03-28 10:53:01

1. API Description

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

This API is used to bulk renew domains.

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: RenewIntlDomainBatch.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Domains.N	Yes	Array of String	The domains to check.
Period	Yes	Integer	The period (1 to 10 years). If this parameter is left empty, premium domains cannot be checked.
PayMode	Yes	Integer	Payment method. Valid value: <input type="text" value="1"/> (account balance).
AutoRenewFlag	No	Boolean	Whether to enable auto-renewal.

3. Output Parameters

Parameter Name	Type	Description
LogId	Integer	The ID of the bulk task.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Bulk renewing domains

Input Example

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

{
  "Domains": [
    "test1.com",
    "test2.com"
  ],
  "Period": 1,
  "PayMode": 1,
  "AutoRenewFlag": false
}
```

Output Example

```
{
  "Response": {
    "LogId": 4,
    "RequestId": "121323"
  }
}
```

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.RenewDomainFailed	Domain renewal failed. Please try again later.
InternalServerError.DomainInternalError	Network error. Please try again later.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.JsonMarshal	Error in converting to JSON.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.NeedLogin	Login is required.
InternalServerError.ReadBodyError	Failed to read the body.
InvalidParameter	Invalid parameter.
InvalidParameter.DomainNameInvalid	The domain is empty or incorrect.

InvalidParameter.UpTo4000	The number of domains cannot exceed 4,000.
MissingParameter.ActionNotFound	The route is not defined.
ResourceInsufficient.Overwork	Too many tasks are being executed. Please submit new ones later.

SendIntIPhoneEmailCode

最近更新时间：2023-03-28 10:53:01

1. API Description

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

This API is used to send a verification code to a mobile number or an email address.

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: SendIntIPhoneEmailCode.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Type	Yes	Integer	The type. Valid values: <code>1</code> (mobile number), <code>2</code> (email address).
Code	Yes	String	The mobile number or email address.

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 Sending a verification code to a mobile phone or an email address

Input Example

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

{
  "Type": 1,
  "Code": "18766554433"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459398"
  }
}
```

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
InternalError.ForbiddenRequest	Forbidden request.
InternalError.JsonMarshal	Error in converting to JSON.
InternalError.MethodNotMatch	Method mismatch.
InternalError.NeedLogin	Login is required.
InternalError.ReadBodyError	Failed to read the body.
InternalError.SendVerifyCodeErr	Failed to send a verification code.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

SetIntlDomainAutoRenew

最近更新时间：2023-03-28 10:53:01

1. API Description

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

This API is used to set auto-renewal.

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: SetIntlDomainAutoRenew.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
DomainId	Yes	String	The domain ID.
AutoRenew	Yes	Integer	Whether to enable auto-renewal. Valid values: <input type="checkbox"/> 1 (enable), <input type="checkbox"/> 2 (disable).

3. Output Parameters

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

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

4. Example

Example1 Setting auto-renewal for a domain

Input Example

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

{
  "AutoRenew": 0,
  "DomainId": 0
}
```

Output Example

```
{
  "Response": {
    "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.

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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
InternalError.DescribeDomainInfoErr	Failed to query the domain information.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.MethodNotMatch	Method mismatch.
InternalError.ReadBodyError	Failed to read the body.
InternalError.SetDomainAutoRenewErr	Failed to set auto-renewal for domains.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.

TransferProhibitionIntlBatch

最近更新时间：2023-03-28 10:53:01

1. API Description

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

This API is used to bulk set transfer prohibition for domains.

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: TransferProhibitionIntlBatch.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Domains.N	Yes	Array of String	The domain array.
Status	Yes	Boolean	Whether to enable transfer prohibition. Valid values: <code>true</code> (enable), <code>false</code> (disable).

3. Output Parameters

--	--	--

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

4. Example

Example1 Bulk setting transfer prohibition

Input Example

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

{
  "Domains": [
    "xx"
  ],
  "Status": true
}
```

Output Example

```
{
  "Response": {
    "LogId": 111111111,
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
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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
InternalServerError.DescribeDomainInfoErr	Failed to query the domain information.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.ReadBodyError	Failed to read the body.
InternalServerError.SetTransferProhibitedErr	Failed to cancel transfer prohibition for domains.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.
ResourceUnavailable.DomainsIsModifyingDNS	Unable to perform this operation because an operation of the same type is in progress for this domain.

UpdateProhibitionIntlBatch

最近更新时间：2023-03-28 10:53:01

1. API Description

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

This API is used to bulk set update prohibition for domains.

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: UpdateProhibitionIntlBatch.
Version	Yes	String	Common Params . The value used for this API: 2018-08-08.
Region	No	String	Common Params . This parameter is not required for this API.
Domains.N	Yes	Array of String	The domain array.
Status	Yes	Boolean	Whether to enable update prohibition. Valid values: <code>true</code> (enable), <code>false</code> (disable).

3. Output Parameters

--	--	--

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

4. Example

Example1 Bulk setting update prohibition

Input Example

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

{
  "Domains": [
    "xx"
  ],
  "Status": true
}
```

Output Example

```
{
  "Response": {
    "LogId": 111,
    "RequestId": "xx"
  }
}
```

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
InternalServerError.DescribeDomainInfoErr	Failed to query the domain information.
InternalServerError.ForbiddenRequest	Forbidden request.
InternalServerError.MethodNotMatch	Method mismatch.
InternalServerError.ReadBodyError	Failed to read the body.
InternalServerError.SetUpdateProhibitedErr	Failed to cancel update prohibition for domains.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.
MissingParameter.ActionNotFound	The route is not defined.
ResourceUnavailable.DomainsIsModifyingDNS	Unable to perform this operation because an operation of the same type is in progress for this domain.

Data Types

最近更新时间：2023-03-28 10:48:39

AdminContact

The admin contact.

Used by actions: CreateIntlTemplate, DescribeIntlTemplate, DescribeIntlTemplateList.

Name	Type	Required	Description
FirstName	String	Yes	The first name.
LastName	String	Yes	The last name.
Country	String	Yes	The country or region name, such as <code>CN</code> .
Province	String	Yes	The province or state name.
City	String	Yes	The city name.
AddressLine	String	Yes	The address line 1.
ZipCode	String	Yes	The zip code.
Email	String	Yes	The email address.
Phone	String	Yes	The mobile number, such as <code>+86.13600000000</code> .
CompanyName	String	No	The company or organization name. Note: This field may return null, indicating that no valid values can be obtained.
JobTitle	String	No	The job title. Note: This field may return null, indicating that no valid values can be obtained.
AddressLineTwo	String	No	The address line 2. Note: This field may return null, indicating that no valid values can be obtained.
Fax	String	No	The fax number. Note: This field may return null, indicating that no valid values can be obtained.

BatchDomainBuyDetails

The log details of bulk domain purchase

Used by actions: DescribeIntlDomainBatchDetails.

Name	Type	Description
Id	Integer	The details ID.
Action	String	The bulk operation type. Valid values: <code>new</code> (register domains), <code>batch_transfer_prohibition_on</code> (enable transfer prohibition), <code>batch_transfer_prohibition_off</code> (disable transfer prohibition), <code>batch_update_prohibition_on</code> (enable update prohibition), <code>batch_update_prohibition_off</code> (disable update prohibition).
Domain	String	The domains.
Status	String	The status. Valid values: <code>SUCCESS</code> , <code>FAILURE</code>
Reason	String	The reason for failure. Note: This field may return null, indicating that no valid values can be obtained.
CreatedOn	String	The creation time.
UpdatedOn	String	The update time.
TransferDnsResult	Boolean	Null: The DNS service is not transferred. <code>false</code> : The DNS service failed to be transferred. <code>true</code> : The DNS service is transferred successfully. Note: This field may return null, indicating that no valid values can be obtained.
ReasonZh	String	The reason for failure, expressed in Chinese. Note: This field may return null, indicating that no valid values can be obtained.
PayStatus	Integer	The payment status. Note: This field may return null, indicating that no valid values can be obtained.

BatchDomainBuyLog

The log of bulk domain purchase

Used by actions: DescribeIntlBatchOperationLogs.

Name	Type	Description
LogId	Integer	The log ID.
Action	String	The bulk operation type. Valid values: <code>new</code> (register domains), <code>batch_transfer_prohibition_on</code> (enable transfer prohibition), <code>batch_transfer_prohibition_off</code> (disable transfer prohibition), <code>batch_update_prohibition_on</code> (enable update prohibition), <code>batch_update_prohibition_off</code> (disable update prohibition).
Number	Integer	The quantity.
Status	String	The execution status. Valid values: <code>doing</code> , <code>done</code>
CreatedOn	String	The submission time.

BillingContact

The contact person for bills.

Used by actions: CreateIntlTemplate, DescribeIntlTemplate, DescribeIntlTemplateList.

Name	Type	Required	Description
FirstName	String	Yes	The first name.
LastName	String	Yes	The last name.
Country	String	Yes	The country or region name, such as <code>CN</code> .
Province	String	Yes	The province or state name.
City	String	Yes	The city name.
AddressLine	String	Yes	The address line 1.
ZipCode	String	Yes	The zip code.
Email	String	Yes	The email address.
Phone	String	Yes	The mobile number, such as <code>+86.13600000000</code> .
CompanyName	String	No	The company or organization name. Note: This field may return null, indicating that no valid values can

			be obtained.
JobTitle	String	No	The job title. Note: This field may return null, indicating that no valid values can be obtained.
AddressLineTwo	String	No	The address line 2. Note: This field may return null, indicating that no valid values can be obtained.
Fax	String	No	The fax number. Note: This field may return null, indicating that no valid values can be obtained.

IntlBatchDetails

The details of the bulk task

Used by actions: DescribeIntlBatchDetailStatus.

Name	Type	Description
Id	Integer	The ID of the bulk task.
Status	String	The task status.
Reason	String	The reason.
ReasonZh	String	The reason, expressed in Chinese.

IntlContactInfo

The contact information.

Used by actions: DescribeIntlDomain, DescribeIntlDomainList.

Name	Type	Description
City	String	The city name.
Country	String	The country or region name.
Email	String	The email address.

OrganizationName	String	The domain registrant.
Province	String	The province or state name.
RegistrantName	String	The name of the registrant.
RegistrantType	String	The registrant type. Valid values: <code>I</code> (individual), <code>E</code> (organization).
Street	String	The detailed address.
Telephone	String	The mobile number.
ZipCode	String	The zip code.
FirstName	String	The first name.
LastName	String	The last name.
CompanyName	String	The company name.

IntlDomainInfo

The domain information set.

Used by actions: DescribeIntlDomain, DescribeIntlDomainList.

Name	Type	Description
AutoRenew	Integer	The auto-renewal flag. Valid values: <code>0</code> (disabled by default), <code>1</code> (enabled), <code>2</code> (disabled).
CreationDate	String	The registration time.
DomainId	String	The domain ID.
DnsStatus	Integer	The DNS status. Valid values: <code>1</code> (DNSPod), <code>2</code> (others), <code>3</code> (unknown).
DomainName	String	The domains.
DomainStatus	Array of String	The domain status.
Status	String	The purchase status of the domain. Valid values: <code>ok</code> : Normal. <code>RegisterPending</code> : Pending registration. <code>RegisterDoing</code> : Registration in progress.

		<p><code>RegisterFailed</code> : Registration failed.</p> <p><code>RenewPending</code> : Renewal grace period.</p> <p><code>RenewDoing</code> : Renewing.</p> <p><code>RedemptionPending</code> : Redemption period.</p> <p><code>AboutToExpire</code> : About to expire.</p> <p><code>TransferPending</code> : Pending transfer.</p> <p><code>TransferTransing</code> : Transfer in progress.</p> <p><code>TransferFailed</code> : Transfer failed.</p>
ExpirationDate	String	The expiration date.
ExpireMessage	Integer	The auto-renewal flag. Valid values: <code>1</code> (enabled), <code>2</code> (disabled), <code>3</code> (disabled by default).
IsPremium	Boolean	Whether the domain is a premium one.
Dns	Array of String	The DNS server of the domain.
ContactInfo	IntlContactInfo	The contact information.
CanRenewYears	Integer	The number of years available for renewal. The value <code>0</code> indicates that the domain has reached its maximum validity period (10 years) and cannot be renewed.
RegistrarType	String	The registrar type. If the value is <code>epp</code> , the registration time on the page is followed by (UTC). Otherwise, it is followed by (UTC+8).
Uin	String	The account to which the domain belongs.
TemplateId	String	The profile ID.
SupportDnssec	Boolean	Whether DNSSEC is supported.
WhoisPrivacy	Integer	WHOIS privacy service status. Valid values: <code>1</code> (enabled), <code>2</code> (disabled), <code>3</code> (enabling), <code>4</code> (disabling).
ModifyStatus	String	Valid values: <code>NotModify</code> (not modified), <code>Modifying</code> , <code>Failed</code> (failed to modify)
DnsModifyStatus	String	Valid values: <code>NotModify</code> (not modified), <code>Modifying</code> , <code>Failed</code> (failed to modify)

IntlPhoneEmailLists

The list of verified mobile numbers and email addresses.

Used by actions: DescribeIntlPhoneEmailList.

Name	Type	Description
Code	String	The mobile number or email address.
Type	Integer	The type. Valid values: <code>1</code> (mobile number), <code>2</code> (email address).
CreatedOn	String	The verification time.

IntlTemplate

The details of the registrant profile.

Used by actions: DescribeIntlTemplateList.

Name	Type	Description
RegistrantContact	RegistrantContact	The registrant contact.
AdminContact	AdminContact	The admin contact.
TechnicalContact	TechnicalContact	The technical contact.
BillingContact	BillingContact	The contact person for bills.
CreatedOn	Timestamp	The creation time.
TemplateId	String	The profile ID.
IsDefault	Integer	Whether the profile is the default one.
UpdatedOn	Timestamp	The last update time.

IntlTemplateInfo

The registrant profile details.

Used by actions: DescribeIntlTemplate.

Name	Type	Description
RegistrantContact	RegistrantContact	The registrant contact.

AdminContact	AdminContact	The admin contact.
TechnicalContact	TechnicalContact	The technical contact.
BillingContact	BillingContact	The contact person for bills.
CreatedOn	Timestamp	The creation time.
TemplateId	String	The profile ID.
TemplateType	String	The registrant type. Valid values: <code>I</code> (individual), <code>E</code> (organization).
UpdatedOn	Timestamp	The last updated time.
Uin	String	The account ID.
IsDefault	Integer	Whether the profile is the default one.

PriceInfoNew

The price information of the domains.

Used by actions: DescribeIntlDomainPriceNewList.

Name	Type	Description
TId	String	The domain suffix, such as <code>.com</code> .
Year	Integer	The purchase years. Value range: [1-10]
Price	Float	The original price of the domain.
RealPrice	Float	The current price of the domain.
Operation	String	The domain purchase type. Valid values: <code>new</code> , <code>renew</code> , <code>redem</code> (redeem), <code>tran</code> (transfer in).
Title	String	The title. Note: This field may return null, indicating that no valid values can be obtained.

RegistrantContact

The registrant contact.

Used by actions: CreateIntlTemplate, DescribeIntlTemplate, DescribeIntlTemplateList.

Name	Type	Required	Description
FirstName	String	Yes	The first name.
LastName	String	Yes	The last name.
Country	String	Yes	The country or region name, such as <code>CN</code> .
Province	String	Yes	The province or state name.
City	String	Yes	The city name.
AddressLine	String	Yes	The address line 1.
ZipCode	String	Yes	The zip code.
Email	String	Yes	The email address.
Phone	String	Yes	The mobile number, such as <code>+86.13600000000</code> .
CompanyName	String	No	The company or organization name. Note: This field may return null, indicating that no valid values can be obtained.
JobTitle	String	No	The job title. Note: This field may return null, indicating that no valid values can be obtained.
AddressLineTwo	String	No	The address line 2. Note: This field may return null, indicating that no valid values can be obtained.
Fax	String	No	The fax number. Note: This field may return null, indicating that no valid values can be obtained.

TechnicalContact

The technical contact.

Used by actions: CreateIntlTemplate, DescribeIntlTemplate, DescribeIntlTemplateList.

Name	Type	Required	Description

FirstName	String	Yes	The first name.
LastName	String	Yes	The last name.
Country	String	Yes	The country or region name, such as <code>CN</code> .
Province	String	Yes	The province or state name.
City	String	Yes	The city name.
AddressLine	String	Yes	The address line 1.
ZipCode	String	Yes	The zip code.
Email	String	Yes	The email address.
Phone	String	Yes	The mobile number, such as <code>+86.13600000000</code> .
CompanyName	String	No	The company or organization name. Note: This field may return null, indicating that no valid values can be obtained.
JobTitle	String	No	The job title. Note: This field may return null, indicating that no valid values can be obtained.
AddressLineTwo	String	No	The address line 2. Note: This field may return null, indicating that no valid values can be obtained.
Fax	String	No	The fax number. Note: This field may return null, indicating that no valid values can be obtained.

Error Codes

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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	<code>Authorization</code> 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
FailedOperation.CheckDomainFailed	Domain name query failed. Please try this feature again later.
FailedOperation.CreateTemplateFailed	Failed to create the registrant profile.
FailedOperation.DescribeDomainListFailed	Failed to get the domain information. Please try again later.
FailedOperation.DescribeTemplateFailed	Failed to query the registrant profile.
FailedOperation.DomainPriceListFailed	Failed to get the domain price list.
FailedOperation.RegisterDomain	Domain registration failed. Please try again later.
FailedOperation.RegisterDomainFailed	Domain registration failed. Please try again later.

FailedOperation.RenewDomainFailed	Domain renewal failed. Please try again later.
FailedOperation.SetDomainDnsFailed	Failed to modify the DNS server. Enter a correct DNS server address.
FailedOperation.TemplateMaxNumFailed	The number of registrant profiles has reached the maximum number allowed. Delete a profile and try again.
FailedOperation.TransferInDomainFailed	Failed to transfer the domain in. Please try again later.
InternalError.AddPhoneEmailErr	Failed to add the mobile number or email address.
InternalError.CheckDnAvailableErr	Failed to get check data.
InternalError.CheckVerifyCodeErr	Failed to verify the verification code.
InternalError.DeletePhoneEmailVerifyErr	Failed to delete the mobile number or email address.
InternalError.DeleteTemplateErr	Failed to delete the registrant profile.
InternalError.DescribeDomainInfoErr	Failed to query the domain information.
InternalError.DescribeDomainListErr	Failed to query the "My domains" list.
InternalError.DescribePhoneEmailListErr	Failed to get the list of verified mobile numbers and email addresses.
InternalError.DescribeTemplateErr	Failed to get the details of the registrant profile.
InternalError.DomainInternalError	Network error. Please try again later.
InternalError.DomainTransferErr	Domain transfer failed.
InternalError.ForbiddenRequest	Forbidden request.
InternalError.JsonMarshal	Error in converting to JSON.
InternalError.MethodNotMatch	Method mismatch.
InternalError.NeedLogin	Login is required.
InternalError.ReadBodyError	Failed to read the body.
InternalError.SendVerifyCodeErr	Failed to send a verification code.

InternalError.SetDomainAutoRenewErr	Failed to set auto-renewal for domains.
InternalError.SetTransferProhibitedErr	Failed to cancel transfer prohibition for domains.
InternalError.SetUpdateProhibitedErr	Failed to cancel update prohibition for domains.
InternalError.VerifiedPhoneEmailErr	The mobile number or email address has already been verified.
InternalError.VerifyCodeErr	Incorrect verification code.
InvalidParameter.CertificateCodeIsInvalid	Incorrect qualification information.
InvalidParameter.CertificateImageIsInvalid	Incorrect qualification photo.
InvalidParameter.CustomDnsNotAllowed	You have no permission to customize DNS servers.
InvalidParameter.DomainNameIsInvalid	The domain is empty or incorrect.
InvalidParameter.EmailIsInvalid	The email address is empty or incorrect.
InvalidParameter.FirstNameIsInvalid	The first name is empty or incorrect.
InvalidParameter.LastNameIsInvalid	The last name is empty or incorrect.
InvalidParameter.NameIsInvalid	The contact person is empty or incorrect.
InvalidParameter.OrgIsInvalid	The registrant is empty or incorrect.
InvalidParameter.PackageResourceIdInvalid	Invalid package ID.
InvalidParameter.RepTypeIsInvalid	Invalid request type.
InvalidParameter.StreetIsInvalid	Incorrect address. Please enter a correct one.
InvalidParameter.TelephoneIsInvalid	The mobile number is empty or invalid.
InvalidParameter.UpTo4000	The number of domains cannot exceed 4,000.
InvalidParameter.UserTypeIsInvalid	The user type is empty or invalid.
InvalidParameter.ZipCodeIsInvalid	The zip code is empty or invalid.
InvalidParameterValue.InvalidParameterFormat	Invalid parameter value.

MissingParameter.ActionNotFound	The route is not defined.
MissingParameter.DomainIsEmpty	The domain cannot be empty.
MissingParameter.RepDataIsNone	The request data cannot be empty.
MissingParameter.TemplateIdsEmpty	The profile ID is empty or invalid.
MissingParameter.TemplateIdsExist	This profile already exists.
ResourceInsufficient.Overwork	Too many tasks are being executed. Please submit new ones later.
ResourceNotFound.ApprovedTemplateNotFound	The identity is not verified for the profile.
ResourceNotFound.DomainNotFound	The domain address is incorrect. Please enter a correct one.
ResourceNotFound.TemplateNotFound	The profile information is incorrect. Please set information correctly.
ResourceUnavailable.DomainIsModifyingDNS	Unable to perform this operation because an operation of the same type is in progress for this domain.
UnsupportedOperation.ModifyDomainInfoOperateUnsupported	This operation is unavailable under the current domain status.
UnsupportedOperation.ModifyDomainInfoUnsupported	Modification is unavailable under the current domain status.
UnsupportedOperation.ModifyDomainUnsupported	Modification is unavailable under the current domain status.