

# Business Intelligence

## API Documentation

### Product Documentation



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# API Documentation

## History

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### Release 3

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Release updates:

Improvement to existing documentation.

New APIs:

- [ClearEmbedToken](#)

Modified APIs:

- [CreateDatasource](#)
  - New input parameters:Schema, DbVersion
- [ModifyDatasource](#)
  - New input parameters:Schema, DbVersion
- [ModifyDatasourceCloud](#)
  - New input parameters:Schema, DbVersion

Modified data structures:

- [DatasourceInfo](#)
  - New members:Schema, DbVersion

### Release 2

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New APIs:

- [CreateDatasourceCloud](#)

- [CreateEmbedToken](#)
- [CreateProject](#)
- [CreateUserRole](#)
- [CreateUserRoleProject](#)
- [DeleteDatasource](#)
- [DeleteProject](#)
- [DeleteUserRole](#)
- [DeleteUserRoleProject](#)
- [DescribeDatasourceList](#)
- [DescribePageWidgetList](#)
- [DescribeProjectInfo](#)
- [DescribeProjectList](#)
- [DescribeUserProjectList](#)
- [DescribeUserRoleList](#)
- [DescribeUserRoleProjectList](#)
- [ExportScreenPage](#)
- [ModifyDatasource](#)
- [ModifyDatasourceCloud](#)
- [ModifyProject](#)
- [ModifyUserRole](#)
- [ModifyUserRoleProject](#)

New data structures:

- [BaseStateAction](#)
- [CorpUserListData](#)
- [Data](#)
- [DataId](#)
- [DatasourceInfo](#)
- [DatasourceInfoData](#)
- [EmbedTokenInfo](#)
- [PageScreenListVO](#)
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- [UserIdAndUserName](#)
- [UserInfo](#)
- [UserRoleListData](#)
- [UserRoleListDataRoleInfo](#)
- [UserRoleListDataUserRoleInfo](#)
- [WidgetListVO](#)
- [WidgetVO](#)

## Release 1

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New APIs:

- [ApplyEmbedInterval](#)
- [CreateDatasource](#)

New data structures:

- [ApplyEmbedTokenInfo](#)
- [ErrorInfo](#)
- [IdDTO](#)

# Introduction

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Tencent Cloud BI (Business Intelligence) provides end-to-end BI capabilities, from data access to model analysis, data visualization display, data portal setup, application collaboration, and permission management. It effectively integrates enterprise multi-business data sources to help operators quickly obtain data for decision-making. The system uses agile self-service design, allowing users to complete complex report output processes with simple dragging operations. By connecting with WeCom and WeChat Official Account, it enables quick implementation of collaboration scenarios such as report sharing, push, and interactive comments.

This section introduces Tencent Cloud BI API interfaces. All are API 3.0 interfaces.

You can call APIs to operate Tencent Cloud BI, such as creating a strong authentication token, creating a user, modifying user information, creating a project, and modifying project information.

For information on all APIs supported by Tencent Cloud BI, see [API overview](#).

## Glossary

Common terminology for Tencent Cloud BI API interface, see the table below:

Term	Description
Embed out refers to embedding an entire data dashboard or a certain page within it into another system using a specified URL by clicking the embed out button, enabling convenient access.	
Strong Authentication Nesting	Enable <b>nested validation</b> when operating, must use API to generate a token with an expiration period, then concatenate the complete URL and perform access.
Weak authentication embedding	Disable <b>nested validation</b> when operating, automatically generate an embedded link with a token, no need to use API.

## API Quick Start

You can use the API Explorer tool to call APIs online.

This document uses **creating a strong authentication token** as an example. The steps to make an API call via the API Explorer Tool are as follows:

1. Enter the [API Explorer](#) tool page. For more API Explorer tool usage information, see [Using API Explorer](#).
2. Call the [CreateEmbedToken](#) API, fill in the input parameters based on the API document and your own business needs, and the API will return a strong authentication token.
3. Combine the embedded configuration pop-up on the dashboard page, splice the embedded URL, then put it in the address bar to access the report page normally.

You have completed the creation of a strong authentication token and accessed it with strong authentication.

# API Category

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## Project Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CreateProject</a>	Creates a project	100
<a href="#">DeleteProject</a>	Deletes a project	100
<a href="#">DescribeProjectInfo</a>	Obtains project details	100
<a href="#">DescribeProjectList</a>	Obtains project list data	100
<a href="#">ModifyProject</a>	Modifies a project	100

## Role APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CreateUserRole</a>	Creates a user role	100
<a href="#">CreateUserRoleProject</a>	Creates a user role in the project	100
<a href="#">DeleteUserRole</a>	Deletes a user role	100
<a href="#">DeleteUserRoleProject</a>	Deletes a user role in the project	100
<a href="#">DescribeUserProjectList</a>	Obtains the user interface in the project	100
<a href="#">DescribeUserRoleList</a>	Obtains the user role list	100
<a href="#">DescribeUserRoleProjectList</a>	Obtains the user role list in the project	100
<a href="#">ModifyUserRole</a>	Modifies user role information	100

<a href="#">ModifyUserRoleProject</a>	Modifies user role information in the project	100
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## Database Table APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CreateDatasource</a>	Creates a data source	100
<a href="#">CreateDatasourceCloud</a>	Creates a cloud database	20
<a href="#">DeleteDatasource</a>	Deletes a data source	100
<a href="#">ModifyDatasource</a>	Updates a data source	100
<a href="#">ModifyDatasourceCloud</a>	Updates a cloud database	20

## Report Embedding APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">ApplyEmbedInterval</a>	Extends token available time	20
<a href="#">CreateEmbedToken</a>	Creates an embedded report token	20
<a href="#">ClearEmbedToken</a>	Clean a strong authentication token	20

## Page Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">DescribePageWidgetList</a>	Queries component information on	20

	the page	
<a href="#">ExportScreenPage</a>	Exports a screenshot of the share page	20
<a href="#">DescribeDatasourceList</a>	Queries a data source list	100

# Making API Requests

## Request Structure

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### 1. Service Address

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

Southeast Asia (Bangkok)	bi.ap-bangkok.tencentcloudapi.com
Northeast Asia (Seoul)	bi.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	bi.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	bi.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	bi.na-siliconvalley.tencentcloudapi.com
South America (São Paulo)	bi.sa-saopaulo.tencentcloudapi.com
Europe (Frankfurt)	bi.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 description of common parameter <code>Action</code> in the input parameter documentation. For example, the API for querying the CVM instances is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the request work with belongs. For values supported for an API, see the description of parameter <code>Region</code> in the input parameters in related API documentation. This parameter is not required for some APIs (which will be indicated in the 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 the server time is greater than 5 minutes, a signature expiration error will occur.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of input parameter <code>Version</code> in the API documentation. For example, the CVM API version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKID***/Date/service/tc3_request;SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this

			<ul style="list-style-type: none"> <li>– Credential: Signature credential; AKID*** is the SecretId; Date is and this value must match the value of X-TC-Timestamp (a common UTC time format; service is the name of the product/service, and domain name prefix. For example, a domain name cvm.tencentcloud.com the CVM product and the value would be cvm;</li> <li>– SignedHeaders: The headers that contains the authentication information type and host are the required headers;</li> <li>– Signature: Signature digest.</li> </ul>
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a can obtain the temporary key and token by calling a CAM API. No a long-term key.

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

Example of an HTTP GET request structure:

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

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

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

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

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

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

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

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

Authorization: TC3-HMAC-SHA256 Credential=AKID*****/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

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

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

10
--58731222010402--
```

## Common parameters for Signature Algorithm v1

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

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

			some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.
Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with <code>Timestamp</code> to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the <a href="#">Cloud API Key</a> 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=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKID*****
```

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

Example of an HTTP POST request structure:

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

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

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

## Region List

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

Region	Value
Southeast Asia (Singapore)	ap-singapore

# Signature v3

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

## Applying for Security Credentials

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

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

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

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

## Using the Resources for Developers

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

## TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKID*****
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b85514
48762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2" \
-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&amp;Offset=0</code>.</p> <p>Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing <a href="#">RFC3986</a> 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"> <li>Both the key and value of the header should be converted to lowercase with leading and trailing spaces removed, so they are concatenated in the format <code>key:value\n</code> format;</li> <li>If there are multiple headers, they should be sorted in ASCII ascending order of the header keys (lowercase).</li> </ol> <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 that 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"> <li>Both the key and value of the header should be converted to lowercase;</li> <li>If there are multiple headers, they should be sorted in ASCII ascending order of the header keys (lowercase) and separated by semicolons (;).</li> </ol>

	The value in this example is <code>content-type;host</code>
HashedRequestPayload	<p>Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}</code> this example). The pseudocode for calculation is <code>Lowercase(HexEncode(Hash.SHA256(RequestPayload)))</code> by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, <code>RequestPayload</code> is always an empty string. The calculation result in this example is</p> <p><code>99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4</code></p>

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

### POST

/

**content-type**:application/json; charset=utf-8

**host**:cvm.tencentcloudapi.com

**content-type**;host

99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907

## 2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in the request header, which is the UNIX timestamp of the current time in seconds such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including the date, requested service and termination string (tc3_request). <b>Date</b> is a UTC time, whose value should match the UTC date converted by the common parameter <code>X-TC-Timestamp</code> ; <code>service</code> is the product name, which should

	match the domain name of the product called. The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .
HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is <code>Lowercase(HexEncode(Hash.SHA256(CanonicalRequest)))</code> . The calculation result in this example is <code>2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ac</code>

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
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3acda7a
```

### 3. Calculating the Signature

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

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

Field Name	Explanation
------------	-------------

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

2) Calculate the signature with the following pseudocode:

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

#### 4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is always TC3-HMAC-SHA256 .
SecretId	The SecretId in the key pair, i.e., AKID**** .
CredentialScope	Credential scope (see above). The calculation result in this example is 2019-02-25/cvm/tc3_request .
SignedHeaders	Header information for signature calculation (see above), such as content-type;host in this example.
Signature	Signature value. The calculation result in this example is a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2 .

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

```
TC3-HMAC-SHA256 Credential=AKID*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b8551448762bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2
```

The following example shows a finished authorization header:

```

POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKID*****/20
19-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=a7b855144876
2bd123d6f79e81815e31a92013640a6cef36a08ad4b292a4d2f2
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

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

```

## 5. Signature Demo

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

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

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

The final output URL might be: `https://cvm.tencentcloudapi.com/?`

`Action=DescribeInstances&InstanceId.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=ElIP9YW3pW28FpsEdkXt%2F%2BWcGel%3D&Timestamp=1465185768&Version=2017-03-12.`

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

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

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

## Java

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

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

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

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

    public static void main(String[] args) throws Exception {
        String service = "cvm";
        String host = "cvm.tencentcloudapi.com";
        String region = "ap-guangzhou";
        String action = "DescribeInstances";
        String version = "2017-03-12";
    }
}
```

```

String algorithm = "TC3-HMAC-SHA256";
String timestamp = "1551113065";
//String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
// Pay attention to the time zone; otherwise, errors may occur
sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

// ***** Step 1: Concatenate the CanonicalRequest string *****
String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + host + "\n";
String signedHeaders = "content-type;host";

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

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

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

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

TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);

```

```

headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);

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

```

## Python

```

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

# Key Parameters
secret_id = "AKID*****"
secret_key = "*****"

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

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = "POST"

```

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

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

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

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

print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + "'
+ ' -H "Content-Type: application/json; charset=utf-8"')
```

```

+ ' -H "Host: ' + host + "'"
+ ' -H "X-TC-Action: ' + action + "'"
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + "'"
+ ' -H "X-TC-Version: ' + version + "'"
+ ' -H "X-TC-Region: ' + region + "'"
+ " -d '" + payload + "'"

```

## Golang

```

package main

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

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

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

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

    // step 1: build canonical request string
    httpRequestMethod := "POST"
    canonicalURI := "/"
    canonicalQueryString := ""

```

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

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

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

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

curl := fmt.Sprintf(`curl -X POST https://%s\
-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"`)

```

```

-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}

```

## PHP

```

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

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:". $host. "\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod. "\n"
.$canonicalUri. "\n"
.$canonicalQueryString. "\n"
.$canonicalHeaders. "\n"
.$signedHeaders. "\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

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

```

```

.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;

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

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

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

```

## Ruby

```

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

# Key Parameters
secret_id = 'AKID*****'
secret_key = '*****'

service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host
region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'

```

```
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')

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

puts canonical_request

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

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

```

signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature

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

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

```

## DotNet

```

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

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

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

```

```

}

public static Dictionary<String, String> BuildHeaders(string secretid,
string secretkey, string service, string endpoint, string region,
string action, string version, DateTime date, string requestPayload)
{
string datestr = date.ToString("yyyy-MM-dd");
DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, Mi
dpointRounding.AwayFromZero) / 1000;
// ***** Step 1: Concatenate the CanonicalRequest string *****
string algorithm = "TC3-HMAC-SHA256";
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string contentType = "application/json";
string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
string signedHeaders = "content-type;host";
string hashedRequestPayload = SHA256Hex(requestPayload);
string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
Console.WriteLine(canonicalRequest);
Console.WriteLine("-----");

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

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

```

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

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

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

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

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

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

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

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

```

{
  Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine();
Console.WriteLine(requestPayload);
}
}

```

## NodeJS

```

const crypto = require('crypto');

function sha256(message, secret = '', encoding) {
  const hmac = crypto.createHmac('sha256', secret)
  return hmac.update(message).digest(encoding)
}

function getHash(message, encoding = 'hex') {
  const hash = crypto.createHash('sha256')
  return hash.update(message).digest(encoding)
}

function getDate(timestamp) {
  const date = new Date(timestamp * 1000)
  const year = date.getUTCFullYear()
  const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
  const day = ('0' + date.getUTCDate()).slice(-2)
  return `${year}-${month}-${day}`
}

function main() {

  const SECRET_ID = "AKID*****"
  const SECRET_KEY = "*****"

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

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

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

```

```
\": \"instance-name\"}}}]}"

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

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

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

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

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

const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
```

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

## C++

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

using namespace std;

string get_data(int64_t xtime)
{
    string utcDate;
    char buff[20] = {0};
    // time_t timenow;
    struct tm sttime;
    sttime = *gmtime(&xtime);
    strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
    utcDate = string(buff);
    return utcDate;
}

string int2str(int64_t n)
{
    std::stringstream ss;
    ss << n;
    return ss.str();
}

string sha256Hex(const string &str)
{
    char buf[3];
    unsigned char hash[SHA256_DIGEST_LENGTH];
    SHA256_CTX sha256;
```

```
SHA256_Init(&sha256);
SHA256_Update(&sha256, str.c_str(), str.size());
SHA256_Final(hash, &sha256);
std::string NewString = "";
for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
{
    snprintf(buf, sizeof(buf), "%02x", hash[i]);
    NewString = NewString + buf;
}
return NewString;
}
string HmacSha256(const string &key, const string &input)
{
    unsigned char hash[32];

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

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

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

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

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

```

size_t len = input.length();

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

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

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

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

    // ***** Step 2: Concatenate the string to sign *****
    string algorithm = "TC3-HMAC-SHA256";
    string RequestTimestamp = int2str(timestamp);
    string credentialScope = date + "/" + service + "/" + "tc3_request";
    string hashedCanonicalRequest = sha256Hex(canonicalRequest);

```

```

string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScope
+ "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----" << endl;

// ***** Step 3: Calculate the signature *****
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");
string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "-----" << endl;

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

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

```

## Signature Failure

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

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes.
AuthFailure.SecretIdNotFound	The key does not exist. Please go to the console to check whether it is

	disabled or you copied fewer or more characters.
AuthFailure.SignatureFailure	Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect.
AuthFailure.TokenFailure	Temporary certificate token error.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).

# Signature

Last updated: 2026-03-19 19:09:16

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

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

## 1. Applying for Security Credentials

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

Security credentials consist of SecretId and SecretKey:

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

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

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

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

## 2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

- SecretId: AKID\*\*\*\*
- SecretKey: \*\*\*\*

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

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

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

## 2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names.

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

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

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

## 2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

## 2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

## 2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and then encode the generated signature using Base64 to obtain the final signature.

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

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

The final signature is:

```
7RAM2xfNMO9EiVTNmPg06MRnCvQ=
```

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 7RAM2xfNMO9EiVTNmPg06MRnCvQ=, the final signature string request parameter (Signature) is 7RAM2xfNMO9EiVTNmPg06MRnCvQ%3D, which will be used to generate the final request URL.

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

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

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

### 4. Signature Failure

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

Error code	Error description
------------	-------------------

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

## 5. Signature Demo

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

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

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

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKID*****&Signature=7RAM2xfNM09EiVTNmPg06MRnCvQ%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 enable s automatic sorting
    // A random number should be used when actually calling, for example: params.put ("Nonce", new Random().nextInt(java.lang.Integer.MAX_VALUE));
    params.put("Nonce", 11886); // Common parameter
    // The current time of the system should be used when actually calling, for example: params.put("Timestamp", System.currentTimeMillis() / 1000);
    params.put("Timestamp", 1465185768); // Common parameter
    params.put("SecretId", "AKID*****"); // Common parameter
    params.put("Action", "DescribeInstances"); // Common parameter
    params.put("Version", "2017-03-12"); // Common parameter
    params.put("Region", "ap-guangzhou"); // Common parameter
    params.put("Limit", 20); // Business parameter
    params.put("Offset", 0); // Business parameter
    params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
    params.put("Signature", sign(getStringToSign(params), "*****", "HmacSHA1")); // Common parameter
    System.out.println(getUrl(params));
}
}

```

## Python

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

```

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

import requests

secret_id = "AKID*****"
secret_key = "*****"

```

```

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

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

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

```

## Golang

```

package main

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

func main() {
    secretId := "AKID*****"
    secretKey := "*****"

```

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

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

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

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

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

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

## PHP

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

```

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

ksort($params);

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

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

```

## Ruby

```

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

secret_id = "AKID*****"
secret_key = "*****"

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

```

```

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

# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
# res = Net::HTTP.get_response(uri)
# puts res.body

```

## DotNet

```

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

public class Application {
  public static string Sign(string signKey, string secret)
  {
    string signRet = string.Empty;
    using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
    {
      byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
      signRet = Convert.ToBase64String(hash);
    }
    return signRet;
  }

  public static string MakeSignPlainText(SortedDictionary<string, string> requestParams, string requestMethod, string requestHost, string requestPath)

```

```
{
string retStr = "";
retStr += requestMethod;
retStr += requestHost;
retStr += requestPath;
retStr += "?";
string v = "";
foreach (string key in requestParams.Keys)
{
v += string.Format("{0}={1}&", key, requestParams[key]);
}
retStr += v.TrimEnd('&');
return retStr;
}

public static void Main(string[] args)
{
string SECRET_ID = "AKID*****";
string SECRET_KEY = "*****";

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

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

param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
```

```

Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
    Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();

string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
    result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}

```

## NodeJS

```

const crypto = require('crypto');

function get_req_url(params, endpoint){
    params['Signature'] = escape(params['Signature']);
    const url_strParam = sort_params(params)
    return "https://" + endpoint + "/" + url_strParam.slice(1);
}

function formatSignString(reqMethod, endpoint, path, strParam){
    let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
    return strSign;
}

function sha1(secretKey, strsign){
    let signMethodMap = {'HmacSHA1': "sha1"};
    let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
    return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}

function sort_params(params) {
    let strParam = "";
    let keys = Object.keys(params);
    keys.sort();
    for (let k in keys) {
        //k = k.replace(/_/g, '.');
    }
}

```

```
strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}

function main(){
const SECRET_ID = "AKID*****"
const SECRET_KEY = "*****"

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

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

strParam = sort_params(params)

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

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

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

```
}  
main()
```

# Responses

Last updated: 2026-03-19 19:09:16

## Response for Successful Requests

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

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

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

## Response for Failed Requests

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

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

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

## Common Error Codes

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

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

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.

# Project Management APIs

## CreateProject

Last updated: 2026-03-19 19:09:25

### 1. API Description

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

This API is used to create a project.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateProject.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
Name	Yes	String	Project name.
ColorCode	Yes	String	Background color of the logo.
Logo	No	String	Project logo.
Mark	No	String	Remarks.

IsApply	No	Boolean	Whether to allow user requests.
DefaultPanelType	No	Integer	Default dashboard. Value range:. 1: project dashboard. 2: my dashboard.
ManagePlatform	No	String	Management platform.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Extra data.
Data	<a href="#">Data</a>	Data.
Msg	String	Returned information.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a Project

This example shows you how to create a project.

#### Input Example

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

```
{
  "Name": "Name",
  "ColorCode": "ColorCode",
  "Logo": "Logo",
  "Mark": "Mark",
  "IsApply": false,
  "DefaultPanelType": 1982493789748932,
  "ManagePlatform": "ManagePlatform"
}
```

## Output Example

```
{
  "Response": {
    "Extra": "1",
    "Data": {
      "Id": 11010
    },
    "Msg": "Successful",
    "RequestId": "dsjasdk121kdsfjksadk"
  }
}
```

# 5. Developer Resources

## SDK

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many and frequent requests.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.

# DeleteProject

Last updated: 2026-03-19 19:09:25

## 1. API Description

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

This API is used to delete a project.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteProject.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
Id	Yes	Integer	Project ID.
Seed	No	String	Random number.
DefaultPanelType	No	Integer	Default dashboard. Value range:. 1: project dashboard. 2: my dashboard.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	"". Note: This field may return null, indicating that no valid values can be obtained.
Data	String	"" Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	"" Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Deleting a Project

This example shows you how to delete a project.

#### Input Example

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

{
  "Id": 1982493789748932,
  "Seed": "Seed",
```

```
"DefaultPanelType": 1982493789748932
}
```

### Output Example

```
{
  "Response": {
    "Extra": "Extra parameter",
    "Data": "1",
    "Msg": "Successful",
    "RequestId": "dsdlsdlcdfkdkask212"
  }
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
------------	-------------

UnauthorizedOperation.Authorize

Permission error.

# DescribeProjectInfo

Last updated: 2026-03-19 19:09:24

## 1. API Description

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

This API is used to obtain project details.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeProjectInfo.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
Id	Yes	Integer	Project ID.
DefaultPanelType	No	Integer	Default dashboard. Value range: 1: project dashboard. 2: my dashboard.

## 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	"" Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	"" Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">Project</a>	Project details. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Showing Project Details with API Samples

This example shows you how to show project details with API samples.

#### Input Example

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

{
  "Id": 1982493789748932,
  "DefaultPanelType": 1982493789748932
}
```

#### Output Example

```
{
  "Response": {
    "ErrorInfo": {
      "ErrorTip": "",
      "ErrorLevel": "INFO",
      "DocLink": "",
      "FAQ": "",
      "ReservedField": ""
    },
    "Extra": "ext",
    "Msg": "Successful",
    "Data": {
      "Id": 1,
      "Logo": "https://cloud.tencentn****/logo.png",
      "Name": "Test project",
      "ColorCode": "#fff",
      "CreatedUser": "zhangsan",
      "CreatedAt": "zhangsan",
      "MemberCount": 0,
      "PageCount": 0,
      "LastModifyName": "zhangsan",
      "Source": "sas",
      "Apply": true,
      "UpdatedUser": "zhangsan",
      "UpdatedAt": "zhangsan",
      "CorpId": "1010",
      "Mark": "Mark",
      "Seed": "Seed",
      "AuthList": [
        "110101"
      ],
      "PanelScope": "page",
      "IsExternalManage": true,
      "ManagePlatform": "saas",
      "ConfigList": [
        {
          "ModuleGroup": "page",
          "Components": [
            {
              "ModuleId": "1101",
              "IncludeType": "usable",
              "Params": ""
            }
          ]
        }
      ]
    }
  }
}
```

```
} ,  
"RequestId": "RequestId-123"  
}  
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.UserNotExist	The user does not exist.
UnsupportedOperation.BIError	Default business exception.

# DescribeProjectList

Last updated: 2026-03-19 19:09:24

## 1. API Description

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

This API is used to obtain project information.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeProjectList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
PageSize	No	Integer	Page capacity. The initial version defaults to 20 and may change dynamically based on screen width in the future.
PageNo	No	Integer	Page marker.
Keyword	No	String	Fuzzy search field.
AllPage	No	Boolean	Whether to display all. If true, ignore pagination.

ModuleCollection	No	String	Role information.
ModuleIdList.N	No	Array of String	moduleId set.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional information. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	API information. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">ProjectListData</a>	Data. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Checking Project List Data

This example shows you how to check project list data.

#### Input Example

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

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

{
  "PageSize": 1,
  "PageNo": 1,
  "Keyword": "demo",
  "AllPage": true
}
```

## Output Example

```
{
  "Response": {
    "ErrorInfo": {
      "ErrorTip": "",
      "ErrorLevel": "INFO",
      "DocLink": "Data does not exist",
      "FAQ": "",
      "ReservedField": ""
    },
    "Extra": "",
    "Msg": "Successful",
    "Data": {
      "List": [
        {
          "Id": 1,
          "Logo": "http://www.cloud.com***/logo.png",
          "Name": "BI project",
          "ColorCode": "#666",
          "CreatedUser": "Zhang San",
          "CreatedAt": "Zhang San",
          "MemberCount": 0,
          "PageCount": 0,
          "LastModifyName": "Zhang San",
          "Source": "",
          "Apply": true,
          "UpdatedUser": "Zhang San",
          "UpdatedAt": "Zhang San",
          "CorpId": "10010101",
          "Mark": "Remarks",
          "Seed": "",
          "AuthList": [
            "10101"
          ],
          "PanelScope": "scope",

```

```
"IsExternalManage": true,
"ManagePlatform": "saas",
"ConfigList": [
  {
    "ModuleGroup": "project",
    "Components": [
      {
        "ModuleId": "10101",
        "IncludeType": "useable",
        "Params": ""
      }
    ]
  }
],
"Total": 1,
"TotalPages": 1
},
"RequestId": "dfjksak10w1qdsks2312"
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.Internal	Internal error.
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.Inactive	User is not enabled.
UnauthorizedOperation.UserNotExist	The user does not exist.

# ModifyProject

Last updated: 2026-03-19 19:09:23

## 1. API Description

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

This API is used to modify project information.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyProject.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
Id	Yes	Integer	Project ID.
Name	No	String	Name.
ColorCode	No	String	Color value.
Logo	No	String	Icon.
Mark	No	String	Remarks.

IsApply	No	Boolean	Available upon request.
Seed	No	String	Seed.
DefaultPanelType	No	Integer	Default dashboard. Value range:. 1: project dashboard. 2: my dashboard.
PanelScope	No	String	2
ManagePlatform	No	String	Project management platform.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional information. Note: This field may return null, indicating that no valid values can be obtained.
Data	String	Returned data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Result. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Modifying a Project

This example shows you how to modify a project.

### Input Example

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

{
  "Id": 1982493789748932,
  "Name": "Name",
  "ColorCode": "ColorCode",
  "Logo": "Logo",
  "Mark": "Mark",
  "IsApply": false,
  "Seed": "Seed",
  "DefaultPanelType": 1982493789748932,
  "PanelScope": "PanelScope",
  "ManagePlatform": "ManagePlatform"
}
```

### Output Example

```
{
  "Response": {
    "Extra": "",
    "Data": "",
    "Msg": "Successful",
    "RequestId": "RequestId-22131ds"
  }
}
```

## 5. Developer Resources

### SDK

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

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.

# Role APIs

## CreateUserRole

Last updated: 2026-03-19 19:09:21

### 1. API Description

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

This API is used to create a user role.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateUserRole.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
RoleIdList.N	No	Array of Integer	Role ID list.
UserInfoList.N	No	Array of <a href="#">UserInfo</a>	User list (new).

UserGroups.N	No	Array of Integer	User group ID list.
--------------	----	------------------	---------------------

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">DataId</a>	Data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 demo

This example shows you how to create a user.

#### Input Example

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

```
{
  "RoleIdList": [
    1982493789748932
  ],
  "UserInfoList": [
    {
      "UserId": "User ID",
      "UserName": "Username",
      "Email": "Mailbox",
      "PhoneNumber": "Mobile number",
      "AreaCode": "Telephone country code",
      "AppUserId": "WeCom account ID",
      "AppUserName": "WeCom account name"
    }
  ],
  "UserList": [
    {
      "UserId": "User ID",
      "UserName": "Username",
      "CorpId": "Enterprise ID",
      "Email": "Mailbox",
      "Status": 1982493789748932,
      "FirstModify": 1982493789748932,
      "PhoneNumber": "Mobile number",
      "AreaCode": "Telephone country code",
      "CreatedUser": "Creator",
      "UpdatedUser": "Modifier",
      "GlobalUserName": "Global role",
      "Mobile": "Mobile number",
      "AppId": "1",
      "AppUserId": "1",
      "AppUserAliasName": "1",
      "AppUserName": "1",
      "InValidateAppRange": false
    }
  ]
}
```

## Output Example

```
{
  "Response": {
    "Msg": "success",
    "RequestId": "30672eed-81e6-4d8f-a630-3d472531490b",
    "Extra": ""
  }
}
```

```
"Data": {  
  "Id": 1  
}  
}  
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError.Internal	Internal error.
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.UserNotExist	The user does not exist.

# CreateUserRoleProject

Last updated: 2026-03-19 19:09:20

## 1. API Description

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

This API is used to create a user role in the project.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateUserRoleProject.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	No	Integer	Project ID.
RoleIdList.N	No	Array of Integer	Role ID list.
UserInfoList.N	No	Array of <a href="#">UserInfo</a>	User list (new).

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">DataId</a>	Data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 demo

##### Input Example

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

{
  "ProjectId": 1982493789748932,
  "RoleIdList": [
    1982493789748932
  ],
  "UserInfoList": [
```

```
{
  "UserId": "zhangsan",
  "UserName": "Username",
  "Email": "Mailbox",
  "PhoneNumber": "Mobile number",
  "AreaCode": "Telephone country code",
  "AppUserId": "WeCom account id"
  "AppUserName": "WeCom account name"
},
"UserList": [
{
  "UserId": "zhangsan",
  "UserName": "Username",
  "CorpId": "Enterprise ID",
  "Email": "Mailbox",
  "Status": 1982493789748932,
  "FirstModify": 1982493789748932,
  "PhoneNumber": "Mobile number",
  "AreaCode": "Telephone country code",
  "CreatedUser": "Creator",
  "UpdatedUser": "Modifier",
  "GlobalUserName": "Global role",
  "Mobile": "Mobile number",
  "AppId": "1",
  "AppUserId": "1",
  "AppUserAliasName": "1",
  "AppUserName": "1",
  "InValidateAppRange": false
}
]
}
```

## Output Example

```
{
  "Response": {
    "Msg": "success",
    "RequestId": "6cd11622-b240-40ae-8ec0-86b933aab8da",
    "Extra": "",
    "Data": {
      "Id": 0
    }
  }
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError.Internal	Internal error.
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.Inactive	User is not enabled.

# DeleteUserRole

Last updated: 2026-03-19 19:09:20

## 1. API Description

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

This API is used to remove a user role, which will result in user deletion.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteUserRole.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
UserId	Yes	String	User ID.

## 3. Output Parameters

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

ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion. Note: This field may return null, indicating that no valid values can be obtained.
Data	String	Data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a User Role – API Example

#### Input Example

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

{
  "UserId": "zhansan"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "221c07fe-6f67-4995-91fe-9d18c451e933",
    "Extra": "",
    "Data": null,
```

```
"Msg": "success"  
}  
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError.Internal	Internal error.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.Inactive	User is not enabled.
UnauthorizedOperation.UserNotExist	The user does not exist.

# DeleteUserRoleProject

Last updated: 2026-03-19 19:09:19

## 1. API Description

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

This API is used to delete a user role in the project.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteUserRoleProject.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	Yes	Integer	Project ID.
UserId	Yes	String	User ID.

## 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	ErrorInfo	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion. Note: This field may return null, indicating that no valid values can be obtained.
Data	String	Data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a User in the Project

#### Input Example

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

{
  "ProjectId": 1982493789748932,
  "UserId": "zhangsan"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "13609343-ad23-43cb-92d4-27233296004e",
    "Extra": "",
    "Data": null,
    "Msg": "success"
  }
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.

# DescribeUserProjectList

Last updated: 2026-03-19 19:09:19

## 1. API Description

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

This API is used to obtain the user interface in the project.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeUserProjectList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	No	Integer	Project ID.
AllPage	No	Boolean	None.
PageNo	No	Integer	None.
PageSize	No	Integer	None.
IsFilterPerAuthUser	No	Boolean	Whether to filter out enterprise administrators.

IsFilterCurrentUser	No	Boolean	Whether to filter out the current user.
Keyword	No	String	Keyword.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">CorpUserListData</a>	Data. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Checking a User in the Project

This example shows you how to check a user in the project.

#### Input Example

```
POST / HTTP/1.1
Host: bi.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeUserProjectList
```

```
<Common request parameters>
```

```
{
  "ProjectId": 1982493789748932,
  "AllPage": false,
  "PageNo": 1982493789748932,
  "PageSize": 1982493789748932,
  "Keyword": "zhangsan"
}
```

## Output Example

```
{
  "Response": {
    "ErrorInfo": {
      "ErrorTip": "",
      "ErrorLevel": "INFO",
      "DocLink": "",
      "FAQ": "",
      "ReservedField": ""
    },
    "Data": {
      "List": [
        {
          "UserId": "1101",
          "UserName": "zhangsan",
          "CorpId": "1012",
          "Email": "123***@qq.com",
          "LastLogin": "2020-09-22T00:00:00+00:00",
          "Status": 0,
          "FirstModify": 0,
          "PhoneNumber": "86212***21",
          "AreaCode": "086",
          "CreatedUser": "zhangsan",
          "CreatedAt": "2020-09-22T00:00:00+00:00",
          "UpdatedUser": "zhangsan",
          "UpdatedAt": "2020-09-22T00:00:00+00:00",
          "GlobalUserName": "zhangsan",
          "Mobile": "153***798",
          "AppId": "101",
          "AppUserId": "zhangsan",
          "AppUserAliasName": "zhangsan",
          "AppUserName": "zhangsan",
          "InValidateAppRange": true
        }
      ],
    }
  }
}
```

```
"Total": 0,
"TotalPages": 0
},
"Extra": "",
"Msg": "Successful",
"RequestId": "RequestId-123"
}
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
MissingParameter.MissingParam	The required parameter is missing.
UnsupportedOperation.BIError	Default business exception.

# DescribeUserRoleList

Last updated: 2026-03-19 19:09:19

## 1. API Description

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

This API is used to obtain the user role list.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeUserRoleList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
PageNo	Yes	Integer	Page number.
PageSize	Yes	Integer	Number of pages.
AllPage	No	Boolean	All page numbers.
UserType	No	String	0: enterprise user. 1: visitor. If left blank, it indicates all users.
Keyword	No	String	Keyword for fuzzy search.

ProjectId	No	String	Project ID.
IsOnlyBindAppUser	No	Boolean	Whether to only obtain users bound to the WeCom app.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Extension description information (providing more exception messages for auxiliary judgment). Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">UserRoleListData</a>	Data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Viewing User Information List

This example shows you how to view the user information list.

#### Input Example

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

```
X-TC-Action: DescribeUserRoleList
```

```
<Common request parameters>
```

```
{
  "PageNo": 1982493789748932,
  "PageSize": 1982493789748932,
  "AllPage": false,
  "UserType": "UserType",
  "Keyword": "Keyword",
  "ProjectId": "ProjectId",
  "IsOnlyBindAppUser": false
}
```

## Output Example

```
{
  "Response": {
    "ErrorInfo": {
      "ErrorTip": "",
      "ErrorLevel": "INFO",
      "DocLink": "",
      "FAQ": "",
      "ReservedField": ""
    },
    "Extra": "",
    "Data": {
      "Total": 0,
      "TotalPages": 0,
      "List": [
        {
          "Id": 1,
          "RoleList": [
            {
              "RoleName": "Enterprise administrator",
              "RoleId": 0,
              "ProjectId": 0,
              "ProjectName": "Test project",
              "ScopeType": 0,
              "ModuleCollection": "datasource"
            }
          ],
          "RoleIdList": [
            1
          ],
          "UserId": "10210",
          "UserName": "zhangsan",

```

```
"CorpId": "30310",
"Email": "123***@qq.com",
"CreatedUser": "zhangsan",
"CreatedAt": "2020-09-22 00:00:00",
"UpdatedUser": "zhangsan",
"UpdatedAt": "2020-09-22 00:00:00",
"LastLogin": "2020-09-22T00:00:00+00:00",
"Status": 0,
"PhoneNumber": "86312***212",
"AreaCode": "086",
"RootAccount": true,
"CorpAdmin": true,
"AppUserId": "2102",
"AppUserAliasName": "zhangsan",
"AppUserName": "zhangsan",
"InvalidAppRange": true
}
],
},
"Msg": "Successful",
"RequestId": ""
}
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.Internal	Internal error.
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.Inactive	User is not enabled.
UnauthorizedOperation.UserNotExist	The user does not exist.
UnsupportedOperation.BIError	Default business exception.

# DescribeUserRoleProjectList

Last updated: 2026-03-19 19:09:18

## 1. API Description

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

This API is used to obtain the user role list in the project.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeUserRoleProjectList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
PageNo	Yes	Integer	Page number.
PageSize	Yes	Integer	Number of pages.
ProjectId	Yes	Integer	Project ID.
IsOnlyBindAppUser	No	Boolean	Whether to only obtain users bound to the WeCom app.
AllPage	No	Boolean	Whether to obtain all the data.

RoleCode	No	String	Role code.
UserIdList.N	No	Array of String	User ID list.
Keyword	No	String	Search keywords.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">UserRoleListData</a>	Data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Viewing the User Role List in the Project

This example shows you how to view the user role list in the project.

#### Input Example

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

```
{
  "PageNo": 1982493789748932,
  "PageSize": 1982493789748932,
  "ProjectId": 1982493789748932,
  "IsOnlyBindAppUser": false
}
```

## Output Example

```
{
  "Response": {
    "ErrorInfo": {
      "ErrorTip": "",
      "ErrorLevel": "INFO",
      "DocLink": "",
      "FAQ": "",
      "ReservedField": ""
    },
    "Extra": "",
    "Data": {
      "Total": 0,
      "TotalPages": 0,
      "List": [
        {
          "Id": 1,
          "RoleList": [
            {
              "RoleName": "Enterprise administrator",
              "RoleId": 0,
              "ProjectId": 210210,
              "ProjectName": "Test project",
              "ScopeType": 0,
              "ModuleCollection": "project"
            }
          ],
          "RoleIdList": [
            1
          ],
          "UserId": "21021",

```

```
"UserName": "zhangsan",
"CorpId": "1202101",
"Email": "123***@qq.com",
"CreatedUser": "zhangsan",
"CreatedAt": "zhangsan",
"UpdatedUser": "zhangsan",
"UpdatedAt": "2020-09-22 00:00:00",
"LastLogin": "2020-09-22T00:00:00+00:00",
"Status": 0,
"PhoneNumber": "152****423",
"AreaCode": "086",
"RootAccount": true,
"CorpAdmin": true,
"AppUserId": "2103",
"AppUserAliasName": "zhangsan",
"AppUserName": "zhangsan",
"InvalidAppRange": true
}
],
},
"Msg": "Successful",
"RequestId": "3211dfZ12-2331"
}
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.Internal	Internal error.
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.Inactive	User is not enabled.
UnauthorizedOperation.UserNotExist	The user does not exist.
UnsupportedOperation.BIError	Default business exception.

# ModifyUserRole

Last updated: 2026-03-19 19:09:18

## 1. API Description

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

This API is used to modify user role info.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyUserRole.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
UserId	No	String	User ID.
RoleIdList.N	No	Array of Integer	Role ID list.
Email	No	String	Mailbox.
UserName	No	String	Username.
PhoneNumber	No	String	Mobile number.

AreaCode	No	String	Telephone country code.
AppUserId	No	String	WeCom user ID.
LoginSecurityStatus	No	Integer	Whether to enable mobile phone verification code login (0: disabled, 1: enabled).
ResetPassWordTip	No	Integer	Whether to enable password expiration reminder (0: disabled, 1: enabled).
ForceResetPassWord	No	Integer	Force password reset (0: disabled, 1: enabled).
PasswordExpired	No	Integer	Password expiration reminder period: 30, 60, 90 (default), or 180 days.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
Data	String	Data. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

## Example1 Modifying User Role Information

This example shows you how to modify user role information.

### Input Example

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

{
  "UserId": "UserId",
  "RoleIdList": [
    1982493789748932
  ],
  "Email": "123***@qq.com",
  "UserName": "zhangsan",
  "PhoneNumber": "PhoneNumber",
  "AreaCode": "AreaCode",
  "AppUserId": "AppUserId",
  "LoginSecurityStatus": 1982493789748932,
  "ResetPassWordTip": 1982493789748932,
  "ForceResetPassWord": 1982493789748932,
  "PasswordExpired": 1982493789748932
}
```

### Output Example

```
{
  "Response": {
    "Msg": "success",
    "RequestId": "9478b0d0-1e95-4d12-88a6-db36fb27a12b",
    "Extra": "Extra",
    "Data": "Data"
  }
}
```

## 5. Developer Resources

### SDK

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.Internal	Internal error.
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.

# ModifyUserRoleProject

Last updated: 2026-03-19 19:09:17

## 1. API Description

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

This API is used to modify the user role info in the project.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyUserRoleProject.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	No	Integer	Project ID.
UserId	No	String	User ID.
RoleIdList.N	No	Array of Integer	Role ID list.
Email	No	String	Mailbox.

UserName	No	String	Username.
AppUserId	No	String	WeCom app user ID.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Message. Note: This field may return null, indicating that no valid values can be obtained.
Data	String	Data. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Modifying User Information in the Project

This example shows you how to modify user information in the project.

#### Input Example

```
POST / HTTP/1.1
Host: bi.intl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyUserRoleProject
```

```
<Common request parameters>
```

```
{
  "ProjectId": 1982493789748932,
  "UserId": "UserId",
  "RoleIdList": [
    1982493789748932
  ],
  "Email": "123***@qq.com",
  "UserName": "zhangsan",
  "AppUserId": "AppUserId"
}
```

## Output Example

```
{
  "Response": {
    "ErrorInfo": {
      "ErrorTip": "",
      "ErrorLevel": "INFO",
      "DocLink": "",
      "FAQ": "",
      "ReservedField": ""
    },
    "Extra": "",
    "Msg": "Successful",
    "Data": "",
    "RequestId": "sadd23jdsh-123cdjds"
  }
}
```

## 5. Developer Resources

### SDK

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

# 6. Error Code

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

Error Code	Description
InternalError.Internal	Internal error.
MissingParameter.MissingParam	The required parameter is missing.
UnauthorizedOperation.Authorize	Permission error.

# Database Table APIs

## CreateDatasource

Last updated: 2026-03-19 19:09:29

### 1. API Description

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

This API is used to create a data source.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateDatasource.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
DbHost	Yes	String	HOST
DbPort	Yes	Integer	Port.
ServiceType	Yes	String	The backend provides dictionaries: domain type. 1. Tencent Cloud, 2. local.

DbType	Yes	String	Drive. Value range:. MYSQL: MYSQL database. PRESTO: presto database. POSTGRE: PostgreSQL database. DLC: dlc database. MSSQL: microsoft SQL Server database.
Charset	Yes	String	Database encoding.
DbUser	Yes	String	Username.
DbPwd	Yes	String	Password.
DbName	Yes	String	Database name.
SourceName	Yes	String	Database alias.
ProjectId	Yes	Integer	Project ID.
Catalog	No	String	Catalog value.
DataOrigin	No	String	Third-party data source identifier.
DataOriginProjectId	No	String	Third-party project ID.
DataOriginDatasourceId	No	String	Third-party data source ID.
ExtraParam	No	String	Extension parameter.
UniqVpcId	No	String	Unified identifier of the Tencent Cloud VPC.
Vip	No	String	VPC IP address.
Vport	No	String	VPC port.
VpcId	No	String	Tencent Cloud VPC identifier.
OperationAuthLimit.N	No	Array of String	Operation permission limitation.
UseVPC	No	Boolean	Enables VPC.
RegionId	No	String	Region.
Schema	No	String	Database schema.
DbVersion	No	String	Database version.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	ErrorInfo	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Data	IdDTO	Data source ID. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional information. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Prompt. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a Data Source

This example shows you how to create a data source.

#### Input Example

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

{
  "DbHost": "DbHost",
  "DbPort": 1982493789748932,
  "ServiceType": "ServiceType",
```

```
"DbType": "DbType",
"Charset": "Charset",
"DbUser": "DbUser",
"DbPwd": "DbPwd",
"DbName": "DbName",
"SourceName": "SourceName",
"ProjectId": 1982493789748932,
"Catalog": "Catalog",
"DataOrigin": "DataOrigin",
"DataOriginProjectId": "DataOriginProjectId",
"DataOriginDatasourceId": "DataOriginDatasourceId",
"ExtraParam": "ExtraParam",
"UniqVpcId": "UniqVpcId",
"Vip": "Vip",
"Vport": "Vport",
"VpcId": "VpcId",
"OperationAuthLimit": [
"OperationAuthLimit"
],
"UseVPC": false,
"RegionId": "RegionId"
}
```

## Output Example

```
{
"Response": {
"Msg": "Internal server error",
"RequestId": "xxx-xx-x",
"Extra": "",
"Data": null,
"ErrorInfo": {
"ErrorTip": "Internal server error",
"ErrorMessage": "Internal server error",
"ErrorLevel": "ERROR"
}
}
}
```

# 5. Developer Resources

## SDK

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InternalServerError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many and frequent requests.

UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.
UnsupportedOperation.BIError	Default business exception.

# CreateDatasourceCloud

Last updated: 2026-03-19 19:09:29

## 1. API Description

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

This API is used to create a cloud database.

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	<a href="#">Common Params</a> . The value used for this API: CreateDatasourceCloud.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ServiceType	Yes	String	The backend provides dictionaries: domain type. 1. Tencent Cloud, 2. local.
DbType	Yes	String	Drive. Value range:. MYSQL: MYSQL database. PRESTO: presto database. POSTGRE: PostgreSQL database.

			DLC: dlc database. MSSQL: microsoft SQL Server database.
Charset	Yes	String	Database encoding.
DbUser	Yes	String	Username.
DbPwd	Yes	String	Password.
DbName	Yes	String	Database name.
SourceName	Yes	String	Database alias.
ProjectId	Yes	String	Project ID.
Vip	No	String	Private network IP address of the public cloud.
Vport	No	String	Private network port of the public cloud.
VpcId	No	String	VPC identifier.
UniqVpcId	No	String	Unified VPC identifier.
RegionId	No	String	Region identifier (gz, bj).
ExtraParam	No	String	Extension parameter.
Instanceld	No	String	Instance ID.
ProdDbName	No	String	Product name of the data source.
DataOrigin	No	String	Third-party data source identifier.
DataOriginProjectId	No	String	Third-party project ID.
DataOriginDatasourceId	No	String	Third-party data source ID.
ClusterId	No	String	Cluster ID.
Schema	No	String	Database schema.
DbVersion	No	String	Database version.

### 3. Output Parameters

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

Name		
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">IdDTO</a>	Success No. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional information. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Prompt. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Creating a Cloud Database Example

This example shows you how to create a cloud database.

#### Input Example

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

{
  "ServiceType": "ServiceType",
  "DbType": "DbType",
  "Charset": "Charset",
  "DbUser": "DbUser",
  "DbPwd": "DbPwd",
  "DbName": "DbName",
  "SourceName": "SourceName",
```

```
"ProjectId": "ProjectId",
"Vip": "Vip",
"Vport": "Vport",
"VpcId": "VpcId",
"UniqVpcId": "UniqVpcId",
"RegionId": "RegionId",
"ExtraParam": "ExtraParam",
"InstanceId": "InstanceId",
"ProdDbName": "ProdDbName",
"DataOrigin": "DataOrigin",
"DataOriginProjectId": "DataOriginProjectId",
"DataOriginDatasourceId": "DataOriginDatasourceId",
"ClusterId": "ClusterId"
}
```

## Output Example

```
{
  "Response": {
    "Data": {
      "Id": 0,
      "AccessKey": "AccessKey***AccessKey",
      "ProjectId": 1,
      "TranId": "jgvk213439",
      "TranStatus": 0
    },
    "Extra": "",
    "Msg": "Successful",
    "RequestId": "RequestId-123"
  }
}
```

# 5. Developer Resources

## SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InternalServerError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.
UnsupportedOperation.BIError	Default business exception.

# DeleteDatasource

Last updated: 2026-03-19 19:09:28

## 1. API Description

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

This API is used to delete a data source.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteDatasource.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
Id	Yes	Integer	Data source ID.
ProjectId	Yes	Integer	Project ID.

## 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	ErrorInfo	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Data	String	Data. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Expansion.
Msg	String	Information.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 success

#### Input Example

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

{
  "Id": 1982493789748932,
  "ProjectId": 1982493789748932
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "9c22f4d3-e28c-450d-8c9f-2e72c40b7001",
    "Extra": "",
    "Data": null,
  }
}
```

```
"Msg": "success"
}
```

## Example2 Invalid ID

### Input Example

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

{
  "Id": 1982493789748932,
  "ProjectId": 1982493789748932
}
```

### Output Example

```
{
  "Response": {
    "RequestId": "9b37bc0d-2a4d-40f0-a620-3a962872aecf",
    "Extra": "",
    "Data": "",
    "Msg": "Invalid data source ID"
  }
}
```

## 5. Developer Resources

### SDK

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

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many and frequent requests.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.
UnsupportedOperation.BIError	Default business exception.

# ModifyDatasource

Last updated: 2026-03-19 19:09:28

## 1. API Description

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

This API is used to update a data source.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyDatasource.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
DbHost	Yes	String	HOST
DbPort	Yes	Integer	Port.
ServiceType	Yes	String	The backend provides dictionaries: domain type. 1: Tencent Cloud; 2: local.
DbType	Yes	String	Drive. Value range: MYSQL: MYSQL database.

			PRESTO: presto database. POSTGRE: PostgreSQL database. DLC: dlc database. MSSQL: microsoft SQL Server database.
Charset	Yes	String	Database encoding.
DbUser	Yes	String	Username.
DbPwd	Yes	String	Password.
DbName	Yes	String	Database name.
SourceName	Yes	String	Database alias.
Id	Yes	Integer	Data source ID.
ProjectId	Yes	Integer	Project ID.
Catalog	No	String	Catalog value.
DataOrigin	No	String	Third-party data source identifier.
DataOriginProjectId	No	String	Third-party project ID.
DataOriginDatasourceId	No	String	Third-party data source ID.
ExtraParam	No	String	Extension parameter.
UniqVpclid	No	String	Unified identifier of the Tencent Cloud VPC.
Vip	No	String	VPC IP address.
Vport	No	String	VPC port.
Vpclid	No	String	Tencent Cloud VPC identifier.
UseVPC	No	Boolean	Enable VPC.
RegionId	No	String	Region.
Schema	No	String	Database schema.
DbVersion	No	String	Database version.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Data	String	None. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional information. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Prompt. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Updating a Data Source

#### Input Example

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

{
  "DbHost": "DbHost",
  "DbPort": 1982493789748932,
  "ServiceType": "ServiceType",
  "DbType": "DbType",
  "Charset": "Charset",
  "DbUser": "DbUser",
  "DbPwd": "DbPwd",
```

```
"DbName": "DbName",
"SourceName": "SourceName",
"Id": 1982493789748932,
"ProjectId": 1982493789748932,
"Catalog": "Catalog",
"DataOrigin": "DataOrigin",
"DataOriginProjectId": "DataOriginProjectId",
"DataOriginDatasourceId": "DataOriginDatasourceId",
"ExtraParam": "ExtraParam",
"UniqVpcId": "UniqVpcId",
"Vip": "Vip",
"Vport": "Vport",
"VpcId": "VpcId",
"UseVPC": false,
"RegionId": "RegionId"
}
```

## Output Example

```
{
  "Response": {
    "Msg": "Internal server error",
    "RequestId": "xxx-xx-x",
    "Extra": "",
    "Data": null,
    "ErrorInfo": {
      "ErrorTip": "Internal server error",
      "ErrorMessage": "Internal server error",
      "ErrorLevel": "ERROR"
    }
  }
}
```

## 5. Developer Resources

### SDK

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

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many and frequent requests.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.

UnsupportedOperation.BIError

Default business exception.

# ModifyDatasourceCloud

Last updated: 2026-03-19 19:09:27

## 1. API Description

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

This API is used to update a cloud database.

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	<a href="#">Common Params</a> . The value used for this API: ModifyDatasourceCloud.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ServiceType	Yes	String	The backend provides dictionaries: domain type. 1: Tencent Cloud; 2: local.
DbType	Yes	String	Drive. Value range: MYSQL: MYSQL database. PRESTO: presto database. POSTGRE: PostgreSQL database.

			DLC: dlc database. MSSQL: microsoft SQL Server database.
Charset	Yes	String	Database encoding.
DbUser	Yes	String	Username.
DbPwd	Yes	String	Password.
DbName	Yes	String	Database name.
SourceName	Yes	String	Database alias.
ProjectId	Yes	String	Project ID.
Id	Yes	Integer	Primary key.
Vip	No	String	Private network IP address of the public cloud.
Vport	No	String	Private network port of the public cloud.
VpcId	No	String	VPC identifier.
UniqVpcId	No	String	Unified VPC identifier.
RegionId	No	String	Region identifier (gz, bj).
ExtraParam	No	String	Extension parameter.
InstancelId	No	String	Instance ID.
ProdDbName	No	String	Product name of the data source.
DataOrigin	No	String	Third-party data source identifier.
DataOriginProjectId	No	String	Third-party project ID.
DataOriginDatasourceId	No	String	Third-party data source ID.
ClusterId	No	String	Cluster ID.
Schema	No	String	Database schema.
DbVersion	No	String	Database version.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Data	String	None. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional information. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Prompt. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Updating a Cloud Database Example

#### Input Example

```

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

{
  "ServiceType": "ServiceType",
  "DbType": "DbType",
  "Charset": "Charset",
  "DbUser": "DbUser",
  "DbPwd": "DbPwd",
  "DbName": "DbName",
  "SourceName": "SourceName",

```

```
"ProjectId": "ProjectId",
"Id": 1982493789748932,
"Vip": "Vip",
"Vport": "Vport",
"VpcId": "VpcId",
"UniqVpcId": "UniqVpcId",
"RegionId": "RegionId",
"ExtraParam": "ExtraParam",
"InstanceId": "InstanceId",
"ProdDbName": "ProdDbName",
"DataOrigin": "DataOrigin",
"DataOriginProjectId": "DataOriginProjectId",
"DataOriginDatasourceId": "DataOriginDatasourceId",
"ClusterId": "ClusterId"
}
```

## Output Example

```
{
  "Response": {
    "RequestId": "63f50c98-1e5b-41bc-9a6a-d630312f8de9",
    "Extra": "",
    "Data": "",
    "Msg": "success"
  }
}
```

# 5. Developer Resources

## SDK

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.
UnsupportedOperation.BIError	Default business exception.

# Report Embedding APIs

## ApplyEmbedInterval

Last updated: 2026-03-19 19:09:23

### 1. API Description

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

This API is used to extend the available time of a token with strong authentication.

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	<a href="#">Common Params</a> . The value used for this API: ApplyEmbedInterval.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	No	Integer	Shares the project ID.
PageId	No	Integer	Shares the page ID. This field is empty (0) for embedding a dashboard and is not passed for embedding ChatBI.
BIToken	No	String	Token requiring extension.

ExtraParam	No	String	Alternate field.
Intention	No	String	embed: page/dashboard embedding. chatBIEmbed: ChatBI embedding.
Scope	No	String	panel: dashboard; page: page. project, during ChatBI embedding.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional parameters. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">ApplyEmbedTokenInfo</a>	Result data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Result description. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Requesting Token Extension

##### Input Example

```
POST / HTTP/1.1
Host: bi.intl.tencentcloudapi.com
```

```
Content-Type: application/json
X-TC-Action: ApplyEmbedInterval
<Common request parameters>

{
  "ProjectId": 1982493789748932,
  "PageId": 1982493789748932,
  "BIToken": "BIToken",
  "ExtraParam": "ExtraParam",
  "Intention": "Intention",
  "Scope": "Scope"
}
```

### Output Example

```
{
  "Response": {
    "Msg": "success",
    "RequestId": "e60a2172-715b-4305-beb2-40792ae53856",
    "Extra": "",
    "Data": {
      "Result": true
    }
  }
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameter.Embed	Report embedding error.
InvalidParameterValue	Parameter value error.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many and frequent requests.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.
UnsupportedOperation.BIError	Default business exception.

# CreateEmbedToken

Last updated: 2026-03-19 19:09:21

## 1. API Description

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

This API is used to create an embedded report with strong authentication.

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	<a href="#">Common Params</a> . The value used for this API: CreateEmbedToken.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	No	Integer	Shares the project ID.
PageId	No	Integer	Shares the page ID. This field is empty (0) for embedding a dashboard and is not passed for embedding ChatBI.
Intention	No	String	"embed" indicates page dashboard embedding, and "chatBIEmbed" indicates ChatBI embedding.
Scope	No	String	"page" indicates embedding a page, "panel" indicates embedding the entire dashboard, and "project" is used for

			ChatBI embedding.
ExpireTime	No	String	Expiration time. Unit: minutes. Maximum value: 240 (namely, 4 hours). Default value: 240.
ExtraParam	No	String	Alternate field.
UserCorpld	No	String	User enterprise ID (only used for multi-user).
Userld	No	String	User ID (only used for multi-user).
TicketNum	No	Integer	Access count limit (range: 1-99999). Leave empty to disable access restrictions.
GlobalParam	No	String	<p>Global filter parameters: Applies to all report filter criteria. Should be formatted as a JSON string.</p> <p>** Currently, only character-type page parameters can be bound to global parameters.</p> <p>**</p> <pre>[ { "ParamKey": "name", page parameter name. "JoinType": "AND", // connection method. Currently, only AND is supported. "WhereList": [ { "Operator": "-neq", // operator. Refer to the following instructions. "Value": [ action value. For a single-value array, only one value is passed. "zZWJMD", "ZzVGHX", "Hunan province". "Hebei province". ] } ], }, { "ParamKey": "genderParam", "JoinType": "AND", "WhereList": [ { "Operator": "-neq", "Value": [ "Male". ] } ] }</pre>

			<pre> } ] } ] </pre> <p>Currently supported operators.</p> <ul style="list-style-type: none"> <li>-neq not equal to != operator.</li> <li>-eq equal to = operator.</li> <li>-is in operator.</li> </ul>
TokenType	No	Integer	<p>100: no user bound. Create 1 token at a time. UserCorpld and UserId are optional. ChatBI embedding is not supported.</p> <p>200: single token per user. Create 1 token at a time. UserCorpld and UserId required.</p> <p>300: multiple tokens per user. Create multiple tokens at a time. UserCorpld and UserId required.</p>
TokenNum	No	Integer	The number of tokens created at one time.
ConfigParam	No	String	Embedded display configurations: Currently for ChatBI embedding scenarios; TableFilter represents data table list filtering, SqlView represents SQL view feature.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional information. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">EmbedTokenInfo</a>	Data. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Result description. Note: This field may return null, indicating that no valid values can

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

## 4. Example

### Example1 Creating a Token for Report Embedding – Strong Authentication

This example shows you how to create a token for report embedding.

#### Input Example

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

{
  "ProjectId": 1982493789748932,
  "PageId": 1982493789748932,
  "Intention": "Intention",
  "Scope": "Scope",
  "ExpireTime": "ExpireTime",
  "ExtraParam": "ExtraParam",
  "UserCorpId": "UserCorpId",
  "UserId": "UserId",
  "TicketNum": 1982493789748932,
  "GlobalParam": "GlobalParam",
  "TokenType": 1982493789748932,
  "TokenNum": 1982493789748932
}
```

#### Output Example

```
{
  "Response": {
    "Msg": "success",
    "RequestId": "adfacf71-c59c-4569-897d-955a1e41ee89",
    "Extra": "",
    "Data": {
```

```
"Id": 11,
"ProjectId": "1",
"PageId": null,
"ExtraParam": "",
"Scope": "panel",
"ExpireTime": 10,
"CreatedUser": null,
"CreatedAt": "2022-04-28 14:26:01",
"UpdatedUser": null,
"UpdatedAt": "2022-04-28 14:26:01",
"BIToken": "300cf2a4-cfb8-47b8-9bc0-4a1f1f74bc1d",
"UserCorpId": "",
"UserId": "",
"TicketNum": 0,
"GlobalParam": "[{"ParamKey": "province", "JoinType": "and", "WhereList": [{"Operator": "-is", "Value": ["Chongqing City", "Hubei Province", "Hunan Province", "Sichuan Province"]}]}]
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameter.Embed	Report embedding error.
InvalidParameterValue	Parameter value error.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many and frequent requests.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.UserNotExist	The user does not exist.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.
UnsupportedOperation.BIError	Default business exception.

# ClearEmbedToken

Last updated: 2026-03-19 19:09:22

## 1. API Description

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

Clean strong authentication tokens. Only enterprise admins can call this API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ClearEmbedToken.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	Yes	String	Project ID.
UserCorpId	Yes	String	Host Account ID
Scope	Yes	String	panel , page
Pageld	No	String	page id

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Additional message. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Prompt message. Note: This field may return null, indicating that no valid values can be obtained.
Data	Boolean	Result Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 page token Cleanup

##### Input Example

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

{
  "ProjectId": "889",
  "UserCorpId": "700000777778",
  "Scope": "page",
```

```
"PageId": "8991"  
}
```

### Output Example

```
{  
  "Response": {  
    "Extra": "Extra",  
    "Msg": "Msg",  
    "Data": false,  
    "RequestId": "RequestId"  
  }  
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

# Page Management APIs

## ExportScreenPage

Last updated: 2026-03-19 19:09:26

### 1. API Description

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

This API is used to export a screenshot.

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	<a href="#">Common Params</a> . The value used for this API: ExportScreenPage.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	Yes	String	Project ID.
PageId	Yes	String	Page ID.
CanvasType	No	String	Canvas type. Grid canvas: GRID; Free canvas: FREE.

PicType	No	String	Image export type. Valid values: Base64, and URL (valid period: 1 day).
WidgetIds.N	No	Array of String	Component IDs. When empty, export the entire page.
AsyncRequest	No	Boolean	Whether it is an async request.
TranId	No	String	Transaction ID.

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Extension parameter. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">PageScreenListVO</a>	Returned data results. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Response message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Exporting a Free Canvas

This example shows you how to export a free canvas.

#### Input Example

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

```
{
  "ProjectId": "1907",
  "PageId": "39618",
  "CanvasType": "FREE",
  "PicType": "url",
  "WidgetIds": []
}
```

## Output Example

```
{
  "Response": {
    "ErrorInfo": {
      "ErrorTip": "",
      "ErrorMessage": "API error",
      "ErrorLevel": "ERROR",
      "DocLink": "",
      "FAQ": "",
      "ReservedField": ""
    },
    "Extra": "",
    "Data": {
      "PicType": "PNG",
      "List": [
        {
          "Content": "",
          "WidgetId": "saia192"
        }
      ],
      "TranId": "qwq211221",
      "TranStatus": 0
    },
    "Msg": "Failed",
    "RequestId": "ddsds122321-fdsd12"
  }
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
DryRunOperation	DryRun operation means the request will be successful, but the DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.

UnsupportedOperation.BIError

Default business exception.

# DescribePageWidgetList

Last updated: 2026-03-19 19:09:26

## 1. API Description

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

This API is used to query component information on the page.

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	<a href="#">Common Params</a> . The value used for this API: DescribePageWidgetList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	Yes	String	Project ID.
PageId	Yes	String	Page ID.

## 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	ErrorInfo	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Extension parameter. Note: This field may return null, indicating that no valid values can be obtained.
Data	WidgetListVO	Returned data results. Note: This field may return null, indicating that no valid values can be obtained.
Msg	String	Response message. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

## 4. Example

### Example1 Success

#### Input Example

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

{
  "ProjectId": "662",
  "PageId": "6465"
}
```

#### Output Example

```
{
  "Response": {
    "ErrorInfo": {
      "ErrorTip": "",
      "ErrorMessage": "",
      "ErrorLevel": "INFO",
      "DocLink": "",
      "FAQ": "",
      "ReservedField": ""
    },
    "Extra": "",
    "Data": {
      "CorpId": "110112",
      "ProjectId": "1101",
      "PageId": "1",
      "WidgetList": [
        {
          "WidgetId": "WidgetId",
          "WidgetName": "Table"
        }
      ]
    },
    "Msg": "Successful",
    "RequestId": "sadaadfdkfdl212313dsds"
  }
}
```

## 5. Developer Resources

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
DryRunOperation	DryRun operation means the request will be successful, but the DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
UnsupportedOperation.BIError	Default business exception.

# DescribeDatasourceList

Last updated: 2026-03-19 19:09:27

## 1. API Description

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

This API is used to query a data source list.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeDatasourceList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2022-01-05.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required.
ProjectId	Yes	Integer	None.
AllPage	No	Boolean	Returns all pages and defaults to false.
DbName	No	String	Database name search.
PageNo	No	Integer	None.
PageSize	No	Integer	None.

Keyword	No	String	Search keywords.
PermissionType	No	Integer	Permission filter (0: all permissions, 1: access permission, 2: edit permission).

### 3. Output Parameters

Parameter Name	Type	Description
ErrorInfo	<a href="#">ErrorInfo</a>	Custom error information object. Note: This field may return null, indicating that no valid values can be obtained.
Data	<a href="#">DatasourceInfoData</a>	List details. Note: This field may return null, indicating that no valid values can be obtained.
Extra	String	Information.
Msg	String	Information.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

### 4. Example

#### Example1 Example

This example shows you the example.

#### Input Example

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

{
```

```
"ProjectId": 1982493789748932,  
"AllPage": false,  
"DbName": "DbName",  
"PageNo": 1982493789748932,  
"PageSize": 1982493789748932,  
"Keyword": "Keyword",  
"PermissionType": 1982493789748932  
}
```

## Output Example

```
{  
  "Response": {  
    "Data": {  
      "List": null,  
      "Total": 0,  
      "TotalPages": 0  
    },  
    "Extra": "",  
    "Msg": "success",  
    "RequestId": "3a66482b-7460-4d22-95bc-eae8c28568e4"  
  }  
}
```

## Example2 success

This example shows you how to query the data source list.

## Input Example

```
POST / HTTP/1.1  
Host: bi.intl.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: DescribeDatasourceList  
<Common request parameters>  
  
{  
  "ProjectId": 11  
}
```

## Output Example

```
{  
  "Response": {  
    "RequestId": "b8116ab8-92e8-4370-b3d5-6cb464b83609",  
  }  
}
```

```
"Extra": "",
"Data": {
  "List": null,
  "Total": 0,
  "TotalPages": 0
},
"Msg": "success"
}
```

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.

InternalError.Internal	Internal error.
InvalidParameter	Parameter error.
InvalidParameterValue	Parameter value error.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Parameters are missing.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many and frequent requests.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.Inactive	User is not enabled.
UnauthorizedOperation.UserNotExist	The user does not exist.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	The operation is not supported.
UnsupportedOperation.BIError	Default business exception.

# Data Types

Last updated: 2026-03-19 19:09:30

## ApplyEmbedTokenInfo

Token deferral request

Used by actions: ApplyEmbedInterval.

Name	Type	Description
Result	Boolean	Request result. Note: This field may return null, indicating that no valid values can be obtained.

## BaseStateAction

Operation attributes of every record returned by a list query

Used by actions: DescribeDatasourceList.

Name	Type	Required	Description
ShowEdit	Boolean	No	Whether the edit button is visible. Note: This field may return null, indicating that no valid values can be obtained.
IsEdit	Boolean	No	Whether the edit button is clickable. Note: This field may return null, indicating that no valid values can be obtained.
EditText	String	No	Edit button text. Note: This field may return null, indicating that no valid values can be obtained.
EditTips	String	No	Edit-disabled hint. Note: This field may return null, indicating that no valid values can be obtained.
ShowDel	Boolean	No	Whether the deletion button is visible. Note: This field may return null, indicating that no valid values can be obtained.

IsDel	Boolean	No	Whether the deletion button is clickable. Note: This field may return null, indicating that no valid values can be obtained.
DelText	String	No	Delete button text. Note: This field may return null, indicating that no valid values can be obtained.
DelTips	String	No	Delete-disabled hint. Note: This field may return null, indicating that no valid values can be obtained.
ShowCopy	Boolean	No	Whether the copy button is visible. Note: This field may return null, indicating that no valid values can be obtained.
ShowView	Boolean	No	Whether it is visible. Note: This field may return null, indicating that no valid values can be obtained.
ShowRename	Boolean	No	Whether renaming is allowed. Note: This field may return null, indicating that no valid values can be obtained.

## CorpUserListData

Enterprise user list

Used by actions: DescribeUserProjectList.

Name	Type	Description
List	Array of <a href="#">UserIdAndUserName</a>	List. Note: This field may return null, indicating that no valid values can be obtained.
Total	Integer	Total number.
TotalPages	Integer	Number of pages.

## Data

Data

Used by actions: CreateProject.

Name	Type	Description
Id	Integer	Project ID.
EditUrl	String	url Note: This field may return null, indicating that no valid values can be obtained.

## DataId

Data ID

Used by actions: CreateUserRole, CreateUserRoleProject.

Name	Type	Description
Id	Integer	Data ID. Note: This field may return null, indicating that no valid values can be obtained.

## DatasourceInfo

Data source details

Used by actions: DescribeDataSourceList.

Name	Type	Description
Id	Integer	Database ID.
DbName	String	Database name.
ServiceType	String	Domain type. Valid values: 1: Tencent Cloud; 2: local. Note: This field may return null, indicating that no valid values can be obtained.
SourceName	String	Database alias.
DbType	String	Database driver.
DbHost	String	HOST

DbPort	Integer	Port.
DbUser	String	Username.
Charset	String	Database encoding.
CreatedAt	String	Creation time.
UpdatedAt	String	Modification time.
CreatedUser	String	Creator. Note: This field may return null, indicating that no valid values can be obtained.
Catalog	String	Catalog value. Note: This field may return null, indicating that no valid values can be obtained.
ConnectType	String	Connection type. Note: This field may return null, indicating that no valid values can be obtained.
ProjectId	String	Project ID. Note: This field may return null, indicating that no valid values can be obtained.
Desc	String	Data source description. Note: This field may return null, indicating that no valid values can be obtained.
Status	String	Data source status. Note: This field may return null, indicating that no valid values can be obtained.
SourcePlat	String	Source platform. Note: This field may return null, indicating that no valid values can be obtained.
ExtraParam	String	Extension parameter. Note: This field may return null, indicating that no valid values can be obtained.
AddInfo	String	Additional information. Note: This field may return null, indicating that no valid values can be obtained.
ProjectName	String	Project name. Note: This field may return null, indicating that no

		valid values can be obtained.
EngineType	String	Engine type. Note: This field may return null, indicating that no valid values can be obtained.
Manager	String	Data source owner. Note: This field may return null, indicating that no valid values can be obtained.
OperatorWhitelist	String	Operation personnel allowlist. Note: This field may return null, indicating that no valid values can be obtained.
Vpclid	String	VPC information of the data source. Note: This field may return null, indicating that no valid values can be obtained.
UniqVpclid	String	uniqVpc information of the data source. Note: This field may return null, indicating that no valid values can be obtained.
RegionId	String	Data source region information. Note: This field may return null, indicating that no valid values can be obtained.
StateAction	<a href="#">BaseStateAction</a>	Operation attributes. Note: This field may return null, indicating that no valid values can be obtained.
UpdatedUser	String	Updater. Note: This field may return null, indicating that no valid values can be obtained.
PermissionList	Array of <a href="#">PermissionGroup</a>	Permission list. Note: This field may return null, indicating that no valid values can be obtained.
AuthList	Array of String	Permission value list. Note: This field may return null, indicating that no valid values can be obtained.
DataOrigin	String	Third-party data source identifier. Note: This field may return null, indicating that no valid values can be obtained.
DataOriginProjectId	String	Third-party project ID. Note: This field may return null, indicating that no

		valid values can be obtained.
DataOriginDatasourceId	String	Third-party data source ID. Note: This field may return null, indicating that no valid values can be obtained.
ClusterId	String	Cluster ID. Note: This field may return null, indicating that no valid values can be obtained.
DbTypeName	String	Data source name. Note: This field may return null, indicating that no valid values can be obtained.
UseVPC	Boolean	Enable VPC. Note: This field may return null, indicating that no valid values can be obtained.
Owner	String	Associated person ID. Note: This field may return null, indicating that no valid values can be obtained.
OwnerName	String	Associated person name. Note: This field may return null, indicating that no valid values can be obtained.
Schema	String	Database schema. Note: This field may return null, indicating that no valid values can be obtained.
DbVersion	String	Database version. Note: This field may return null, indicating that no valid values can be obtained.

## DatasourceInfoData

Data source details list

Used by actions: DescribeDatasourceList.

Name	Type	Description
List	Array of <a href="#">DatasourceInfo</a>	Data source details list. Note: This field may return null, indicating that no valid values can be obtained.

Total	Integer	Total number. Note: This field may return null, indicating that no valid values can be obtained.
TotalPages	Integer	Total number of pages. Note: This field may return null, indicating that no valid values can be obtained.

## EmbedTokenInfo

Report embedding data structure with strong authentication

Used by actions: CreateEmbedToken.

Name	Type	Description
Id	Integer	Information identifier. Note: This field may return null, indicating that no valid values can be obtained.
BIToken	String	Token. Note: This field may return null, indicating that no valid values can be obtained.
ProjectId	String	Project ID. Note: This field may return null, indicating that no valid values can be obtained.
CreatedUser	String	Creator. Note: This field may return null, indicating that no valid values can be obtained.
CreatedAt	String	Creation time. Note: This field may return null, indicating that no valid values can be obtained.
UpdatedUser	String	Updater. Note: This field may return null, indicating that no valid values can be obtained.
UpdatedAt	String	Update time. Note: This field may return null, indicating that no valid values can be obtained.

Pageld	String	Page ID. Note: This field may return null, indicating that no valid values can be obtained.
ExtraParam	String	Backup. Note: This field may return null, indicating that no valid values can be obtained.
Scope	String	Embedding type. Note: This field may return null, indicating that no valid values can be obtained.
ExpireTime	Integer	Expiration time (in minutes), with a maximum value of 240. Note: This field may return null, indicating that no valid values can be obtained.
UserCorpId	String	User enterprise ID (only used for multi-user). Note: This field may return null, indicating that no valid values can be obtained.
UserId	String	User ID (only used for multi-user). Note: This field may return null, indicating that no valid values can be obtained.
TicketNum	Integer	Access count limit (range: 1–99999). Leave empty to disable access restrictions. Note: This field may return null, indicating that no valid values can be obtained.
GlobalParam	String	Global parameter. Note: This field may return null, indicating that no valid values can be obtained.
Intention	String	"embed" indicates page dashboard embedding, and "chatBIEmbed" indicates ChatBI embedding. Note: This field may return null, indicating that no valid values can be obtained.
TokenType	Integer	100: no bound user. 200: single token per user. 300: multiple tokens per user. Note: This field may return null, indicating that no valid values can be obtained.
TokenNum	Integer	Number of tokens. Note: This field may return null, indicating that no valid values can be obtained.

SingleUserMultiToken	Boolean	Whether it is multiple tokens per user. Note: This field may return null, indicating that no valid values can be obtained.
ConfigParam	String	Embedded display configurations: Currently for ChatBI embedding scenarios; TableFilter represents data table list filtering, SqlView represents SQL view feature. Note: This field may return null, indicating that no valid values can be obtained.

## ErrorInfo

Custom error information object

Used by actions: ApplyEmbedInterval, ClearEmbedToken, CreateDatasource, CreateDatasourceCloud, CreateEmbedToken, CreateProject, CreateUserRole, CreateUserRoleProject, DeleteDatasource, DeleteProject, DeleteUserRole, DeleteUserRoleProject, DescribeDatasourceList, DescribePageWidgetList, DescribeProjectInfo, DescribeProjectList, DescribeUserProjectList, DescribeUserRoleList, DescribeUserRoleProjectList, ExportScreenPage, ModifyDatasource, ModifyDatasourceCloud, ModifyProject, ModifyUserRole, ModifyUserRoleProject.

Name	Type	Description
ErrorTip	String	Error description field. Note: This field may return null, indicating that no valid values can be obtained.
ErrorMessage	String	Original exception message. Note: This field may return null, indicating that no valid values can be obtained.
ErrorLevel	String	Error level field. ERROR WARN INFO Note: This field may return null, indicating that no valid values can be obtained.
DocLink	String	Documentation link. Note: This field may return null, indicating that no valid values can be obtained.

FAQ	String	Quick start guide. Note: This field may return null, indicating that no valid values can be obtained.
ReservedField	String	Reserved field 1. Note: This field may return null, indicating that no valid values can be obtained.

## IdDTO

Object containing only ID

Used by actions: CreateDatasource, CreateDatasourceCloud.

Name	Type	Required	Description
Id	Integer	Yes	Request ID. Note: This field may return null, indicating that no valid values can be obtained.
AccessKey	String	No	key Note: This field may return null, indicating that no valid values can be obtained.
ProjectId	Integer	No	id Note: This field may return null, indicating that no valid values can be obtained.
TranId	String	No	Transaction ID. Note: This field may return null, indicating that no valid values can be obtained.
TranStatus	Integer	No	Transaction status. Value range:. Processing. 2: processing is successful. 3: processing failure. Note: This field may return null, indicating that no valid values can be obtained.

## PageScreenListVO

## Screenshot list

Used by actions: ExportScreenPage.

Name	Type	Description
PicType	String	Image export type. Valid values: Base64, and URL. Note: This field may return null, indicating that no valid values can be obtained.
List	Array of <a href="#">PageScreenVO</a>	Image list. Note: This field may return null, indicating that no valid values can be obtained.
TranId	String	Async transaction ID. Note: This field may return null, indicating that no valid values can be obtained.
TranStatus	Integer	Transaction status. 1: processing; 2: processing successful; 3: processing failed (error content in outer Msg). Note: This field may return null, indicating that no valid values can be obtained.

## PageScreenVO

Page screenshot information

Used by actions: ExportScreenPage.

Name	Type	Description
Content	String	Screenshot Base64 or URL. Note: This field may return null, indicating that no valid values can be obtained.
WidgetId	String	Component ID. Note: This field may return null, indicating that no valid values can be obtained.

## PermissionComponent

Business edition permission unit

Used by actions: DescribeDatasourceList.

Name	Type	Required	Description
ModuleId	String	No	Permission value. Note: This field may return null, indicating that no valid values can be obtained.
IncludeType	String	No	Availability. Valid values:  -usable. -visible. -disabled: unavailable. -hidden: hide.  Default value: disabled. Example value: disabled. Note: This field may return null, indicating that no valid values can be obtained.
UpgradeVersionType	String	No	Target upgrade version. Note: This field may return null, indicating that no valid values can be obtained.
Tips	String	No	Supplemental information. Note: This field may return null, indicating that no valid values can be obtained.
TipsKey	String	No	Key for supplementary information. Note: This field may return null, indicating that no valid values can be obtained.

## PermissionGroup

Commercial version permission grouping

Used by actions: DescribeDatasourceList.

Name	Type	Required	Description
ModuleGroup	String	No	Group name. Note: This field may return null, indicating that no valid values can be obtained.

Components	Array of <a href="#">PermissionComponent</a>	No	Permission list. Note: This field may return null, indicating that no valid values can be obtained.
------------	--	----	--

## Project

Project description

Used by actions: DescribeProjectInfo, DescribeProjectList.

Name	Type	Description
Id	Integer	Project ID.
Logo	String	Project logo. Note: This field may return null, indicating that no valid values can be obtained.
Name	String	Project name. Note: This field may return null, indicating that no valid values can be obtained.
ColorCode	String	Background color of the logo. Note: This field may return null, indicating that no valid values can be obtained.
CreatedUser	String	Creator. Note: This field may return null, indicating that no valid values can be obtained.
CreatedAt	String	Creation time. Note: This field may return null, indicating that no valid values can be obtained.
MemberCount	Integer	Number of members. Note: This field may return null, indicating that no valid values can be obtained.
PageCount	Integer	Number of pages. Note: This field may return null, indicating that no valid values can be obtained.
LastModifyName	String	Last modified report and dashboard names. Note: This field may return null, indicating that no valid values can be obtained.

Source	String	"" Note: This field may return null, indicating that no valid values can be obtained.
Apply	Boolean	"" Note: This field may return null, indicating that no valid values can be obtained.
UpdatedUser	String	"" Note: This field may return null, indicating that no valid values can be obtained.
UpdatedAt	String	"" Note: This field may return null, indicating that no valid values can be obtained.
Corpld	String	"" Note: This field may return null, indicating that no valid values can be obtained.
Mark	String	"" Note: This field may return null, indicating that no valid values can be obtained.
Seed	String	"" Note: This field may return null, indicating that no valid values can be obtained.
AuthList	Array of String	Permission list in the project. Note: This field may return null, indicating that no valid values can be obtained.
PanelScope	String	Default dashboard. Note: This field may return null, indicating that no valid values can be obtained.
IsExternalManage	Boolean	Whether it is managed. Note: This field may return null, indicating that no valid values can be obtained.
ManagePlatform	String	Management platform name. Note: This field may return null, indicating that no valid values can be obtained.
ConfigList	Array of <a href="#">ProjectConfigList</a>	Customization parameter. Note: This field may return null, indicating that no valid values can be obtained.

CreatedUserName	String	Creator. Note: This field may return null, indicating that no valid values can be obtained.
Owner	String	Associated person ID. Note: This field may return null, indicating that no valid values can be obtained.
OwnerName	String	Associated person. Note: This field may return null, indicating that no valid values can be obtained.
NormalCount	Integer	Number of dashboard pages. Note: This field may return null, indicating that no valid values can be obtained.
FreeCount	Integer	Number of free canvas pages. Note: This field may return null, indicating that no valid values can be obtained.
AdhocCount	Integer	Number of ad-hoc analysis pages. Note: This field may return null, indicating that no valid values can be obtained.
BriefingCount	Integer	Number of pages in the briefing Note: This field may return null, indicating that no valid values can be obtained.

## ProjectConfigList

Customized query

Used by actions: DescribeProjectInfo, DescribeProjectList.

Name	Type	Required	Description
ModuleGroup	String	No	Module group. Note: This field may return null, indicating that no valid values can be obtained.
Components	Array of <a href="#">ProjectConfigResult</a>	No	Content. Note: This field may return null, indicating that no valid values can be obtained.

## ProjectConfigResult

Customized query

Used by actions: DescribeProjectInfo, DescribeProjectList.

Name	Type	Required	Description
ModuleId	String	No	Configuration name. Note: This field may return null, indicating that no valid values can be obtained.
IncludeType	String	No	Configuration mode. Valid values:.  -usable. -visible. -disabled: unavailable. -hidden: hide.  Default value: disabled. Example value: disabled. Note: This field may return null, indicating that no valid values can be obtained.
Params	String	No	Additional parameters. Note: This field may return null, indicating that no valid values can be obtained.

## ProjectListData

Project list data

Used by actions: DescribeProjectList.

Name	Type	Description
List	Array of <a href="#">Project</a>	Array. Note: This field may return null, indicating that no valid values can be obtained.
Total	Integer	Total number.

		Note: This field may return null, indicating that no valid values can be obtained.
TotalPages	Integer	1 Note: This field may return null, indicating that no valid values can be obtained.

## UserGroupDTO

User group

Used by actions: DescribeUserRoleList, DescribeUserRoleProjectList.

Name	Type	Required	Description
Id	Integer	No	id Note: This field may return null, indicating that no valid values can be obtained.
GroupName	String	No	User group name. Note: This field may return null, indicating that no valid values can be obtained.
ParentId	Integer	No	Parent node ID. Note: This field may return null, indicating that no valid values can be obtained.
IsDefault	Integer	No	Whether it is default. Note: This field may return null, indicating that no valid values can be obtained.
AdminUserId	String	No	Administrator user ID. Note: This field may return null, indicating that no valid values can be obtained.
Description	String	No	Description. Note: This field may return null, indicating that no valid values can be obtained.
Location	Integer	No	Location. Note: This field may return null, indicating that no valid values can be obtained.

# UserIdAndUserName

User ID and username

Used by actions: DescribeUserProjectList.

Name	Type	Required	Description
UserId	String	No	User ID.
UserName	String	No	Username.
Corpld	String	No	Enterprise ID. Note: This field may return null, indicating that no valid values can be obtained.
Email	String	No	Email. Note: This field may return null, indicating that no valid values can be obtained.
LastLogin	Timestamp ISO8601	No	Last login time. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	No	User status. Valid values:  -Enable. -0: disabled.  The default value is 1. Example value: 1. Note: This field may return null, indicating that no valid values can be obtained.
FirstModify	Integer	No	Whether to change password on first login. Note: This field may return null, indicating that no valid values can be obtained.
PhoneNumber	String	No	Mobile number. Note: This field may return null, indicating that no valid values can be obtained.
AreaCode	String	No	Telephone country code. Note: This field may return null, indicating that no valid values can be obtained.

CreatedUser	String	No	Creator. Note: This field may return null, indicating that no valid values can be obtained.
CreatedAt	Timestamp ISO8601	No	Creation time. Note: This field may return null, indicating that no valid values can be obtained.
UpdatedUser	String	No	Modifier. Note: This field may return null, indicating that no valid values can be obtained.
UpdatedAt	Timestamp ISO8601	No	Change time. Note: This field may return null, indicating that no valid values can be obtained.
GlobalUserName	String	No	System global role. Note: This field may return null, indicating that no valid values can be obtained.
GlobalUserCode	String	No	System global role code. Note: This field may return null, indicating that no valid values can be obtained.
Mobile	String	No	Mobile number.  Note: This field may return null, indicating that no valid values can be obtained.
AppId	String	No	1 Note: This field may return null, indicating that no valid values can be obtained.
AppUserId	String	No	1 Note: This field may return null, indicating that no valid values can be obtained.
AppUserAliasName	String	No	1 Note: This field may return null, indicating that no valid values can be obtained.
AppUserName	String	No	1 Note: This field may return null, indicating that no valid values can be obtained.
InValidateAppRange	Boolean	No	1 Note: This field may return null, indicating that

			no valid values can be obtained.
EmailActivationStatus	Integer	No	-1: No activation required. 0: Inactivated. 1: Activated. Null value represents pending binding. Note: This field may return null, indicating that no valid values can be obtained.
Id	Integer	No	1 Note: This field may return null, indicating that no valid values can be obtained.

## UserInfo

User ID and username

Used by actions: CreateUserRole, CreateUserRoleProject.

Name	Type	Required	Description
UserId	String	No	User ID.
UserName	String	No	Username.
Email	String	No	Email. Note: This field may return null, indicating that no valid values can be obtained.
PhoneNumber	String	No	Mobile number. Note: This field may return null, indicating that no valid values can be obtained.
AreaCode	String	No	Telephone country code. Note: This field may return null, indicating that no valid values can be obtained.
AppUserId	String	No	WeCom account ID. Note: This field may return null, indicating that no valid values can be obtained.
AppUserName	String	No	WeCom account name. Note: This field may return null, indicating that no valid values can be obtained.

## UserRoleListData

User role information

Used by actions: DescribeUserRoleList, DescribeUserRoleProjectList.

Name	Type	Description
Total	Integer	Total number. Note: This field may return null, indicating that no valid values can be obtained.
TotalPages	Integer	Total number of pages. Note: This field may return null, indicating that no valid values can be obtained.
List	Array of <a href="#">UserRoleListDataUserRoleInfo</a>	List. Note: This field may return null, indicating that no valid values can be obtained.

## UserRoleListDataRoleInfo

Role information of the user role list

Used by actions: DescribeUserRoleList, DescribeUserRoleProjectList.

Name	Type	Description
RoleName	String	Role Name. Note: This field may return null, indicating that no valid values can be obtained.
RoleId	Integer	Role ID. Note: This field may return null, indicating that no valid values can be obtained.
ProjectId	Integer	Project ID. Note: This field may return null, indicating that no valid values can be obtained.
ProjectName	String	Project name. Note: This field may return null, indicating that no valid values can be obtained.

ScopeType	Integer	Whether it is a global role (0: no; 1: yes). Note: This field may return null, indicating that no valid values can be obtained.
ModuleCollection	String	Role key. Note: This field may return null, indicating that no valid values can be obtained.

## UserRoleListDataUserRoleInfo

User role information

Used by actions: DescribeUserRoleList, DescribeUserRoleProjectList.

Name	Type	Description
Id	Integer	Business ID.
RoleList	Array of <a href="#">UserRoleListDataRoleInfo</a>	This API is used to obtain the role list. Note: This field may return null, indicating that no valid values can be obtained.
RoleIdList	Array of Integer	Role ID list. Note: This field may return null, indicating that no valid values can be obtained.
UserId	String	User ID.
UserName	String	Username.
CorpId	String	Enterprise ID.
Email	String	Email. Note: This field may return null, indicating that no valid values can be obtained.
CreatedUser	String	Creator. Note: This field may return null, indicating that no valid values can be obtained.
CreatedAt	String	Creation time. Note: This field may return null, indicating that no valid values can be obtained.

UpdatedUser	String	Updater. Note: This field may return null, indicating that no valid values can be obtained.
UpdatedAt	String	Update time. Note: This field may return null, indicating that no valid values can be obtained.
LastLogin	Timestamp ISO8601	Last login time. Note: This field may return null, indicating that no valid values can be obtained.
Status	Integer	Account status. Note: This field may return null, indicating that no valid values can be obtained.
PhoneNumber	String	Mobile number. Note: This field may return null, indicating that no valid values can be obtained.
AreaCode	String	Telephone country code. Note: This field may return null, indicating that no valid values can be obtained.
RootAccount	Boolean	Whether it is the root account. Note: This field may return null, indicating that no valid values can be obtained.
CorpAdmin	Boolean	Whether it is an enterprise administrator. Note: This field may return null, indicating that no valid values can be obtained.
AppUserId	String	WeCom user ID. Note: This field may return null, indicating that no valid values can be obtained.
AppUserAliasName	String	Nickname. Note: This field may return null, indicating that no valid values can be obtained.
AppUserName	String	Application username. Note: This field may return null, indicating that no valid values can be obtained.
InValidateAppRange	Boolean	Whether it is within the visible range. Note: This field may return null, indicating that no valid values can be obtained.

AppOpenUserId	String	User openID. Note: This field may return null, indicating that no valid values can be obtained.
EmailActivationStatus	Integer	Activation status of email. Note: This field may return null, indicating that no valid values can be obtained.
UserGroupList	Array of <a href="#">UserGroupDTO</a>	User group information. Note: This field may return null, indicating that no valid values can be obtained.

## WidgetListVO

Page component information

Used by actions: DescribePageWidgetList.

Name	Type	Description
CorpId	String	uin Note: This field may return null, indicating that no valid values can be obtained.
ProjectId	String	Project ID. Note: This field may return null, indicating that no valid values can be obtained.
PageId	String	Page ID. Note: This field may return null, indicating that no valid values can be obtained.
WidgetList	Array of <a href="#">WidgetVO</a>	Component array. Note: This field may return null, indicating that no valid values can be obtained.

## WidgetVO

Component information

Used by actions: DescribePageWidgetList.

Name	Type	Description
WidgetId	String	Component ID. Note: This field may return null, indicating that no valid values can be obtained.
WidgetName	String	Component name. Note: This field may return null, indicating that no valid values can be obtained.

# Error Codes

Last updated: 2026-03-19 19:09:30

## 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 <a href="#">CAM</a> documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.

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

## Service Error Codes

Error Code	Description
AuthFailure	CAM signature/authentication error.
InternalError.Internal	Internal error.
InvalidParameter.Embed	Report embedding error.
MissingParameter.MissingParam	The required parameter is missing.
OperationDenied	Operation denied.
UnauthorizedOperation.Authorize	Permission error.
UnauthorizedOperation.Inactive	User is not enabled.

---

UnauthorizedOperation.UserNotExist	The user does not exist.
UnsupportedOperation.BIError	Default business exception.