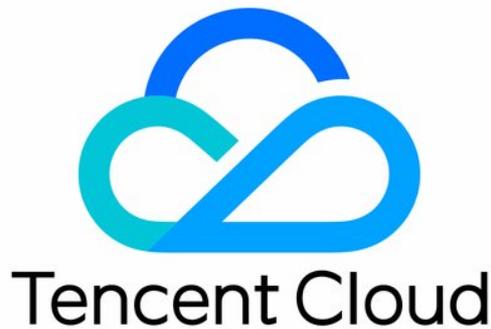


Event Bridge

API Documentation

Product Documentation



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Last updated : 2023-12-01 16:50:01

Release 7

Release time: 2023-12-01 16:44:22

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeLogTagValue](#)
- [SearchLog](#)

New data structures:

- [LogFilter](#)
- [LogFilters](#)
- [SearchLogResult](#)

Release 6

Release time: 2023-05-22 17:09:39

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateEventBus](#)
 - New input parameters: SaveDays, EnableStore
- [GetEventBus](#)
 - New output parameters: PayMode, SaveDays, LogTopicId, EnableStore, LinkMode
- [UpdateEventBus](#)
 - New input parameters: SaveDays, LogTopicId, EnableStore

New data structures:

- [ConnectionBrief](#)
- [DTSParams](#)

Modified data structures:

- [ConnectionDescription](#)
 - New members:DTSParams
- [EventBus](#)
 - New members:PayMode, ConnectionBriefs, TargetBriefs

Release 5

Release time: 2022-09-28 14:48:07

Release updates:

Improvement to existing documentation.

Modified APIs:

- [UpdateRule](#)
 - New input parameters:EventPattern

Release 4

Release time: 2022-08-10 11:26:24

Release updates:

Improvement to existing documentation.

New data structures:

- [ESTargetParams](#)

Modified data structures:

- [TargetDescription](#)
 - New members:ESTargetParams

Release 3

Release time: 2022-07-07 11:44:07

Release updates:

Improvement to existing documentation.

New APIs:

- [CheckRule](#)
- [CreateConnection](#)
- [CreateEventBus](#)
- [GetEventBus](#)
- [UpdateEventBus](#)

Release 2

Release time: 2022-06-15 15:53:28

Release updates:

Improvement to existing documentation.

Deleted APIs:

- CheckRule
- CreateConnection
- CreateEventBus
- GetEventBus
- UpdateEventBus

Release 1

Release time: 2022-03-11 15:40:00

Release updates:

Improvement to existing documentation.

New APIs:

- [CheckRule](#)

- [CheckTransformation](#)
- [CreateConnection](#)
- [CreateEventBus](#)
- [CreateRule](#)
- [CreateTarget](#)
- [CreateTransformation](#)
- [DeleteConnection](#)
- [DeleteEventBus](#)
- [DeleteRule](#)
- [DeleteTarget](#)
- [DeleteTransformation](#)
- [GetEventBus](#)
- [GetRule](#)
- [GetTransformation](#)
- [ListConnections](#)
- [ListEventBuses](#)
- [ListRules](#)
- [ListTargets](#)
- [UpdateConnection](#)
- [UpdateEventBus](#)
- [UpdateRule](#)
- [UpdateTarget](#)
- [UpdateTransformation](#)

New data structures:

- [APIGWParams](#)
- [CkafkaDeliveryParams](#)
- [CkafkaParams](#)
- [CkafkaTargetParams](#)
- [Connection](#)
- [ConnectionDescription](#)
- [DeadLetterConfig](#)
- [EtlFilter](#)
- [EventBus](#)
- [Extraction](#)
- [Filter](#)
- [OutputStructParam](#)

- [RetryPolicy](#)
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- [TextParams](#)
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Introduction

Last updated : 2022-08-10 11:29:11

EventBridge is a serverless service, which enables you to stay up to date with the real-time data changes in Tencent Cloud services, your applications, and SaaS applications with no need to write code.

API Category

Last updated : 2023-12-01 16:50:00

Delivery Target APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateTarget	Creates delivery target	20
DeleteTarget	Deletes delivery target	20
ListTargets	Gets delivery target list	20
UpdateTarget	Updates delivery target	20

Event Bus APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteEventBus	Deletes event bus	20
CreateEventBus	Creates an event bus	20
GetEventBus	Gets details of an event bus	20
ListEventBuses	Gets event bus list	20
UpdateEventBus	Updates an event bus	20

Event Rule APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CheckRule	Checks rule	20
CreateRule	Creates event rule	20
DeleteRule	Deletes event rule	20
ListRules	Gets event rule list	20

UpdateRule	Updates event rule	20
GetRule	Gets event rule details	20

Event Connector APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateConnection	Creates event connector	20
DeleteConnection	Deletes event connector	20
ListConnections	Gets event connector list	20
UpdateConnection	Updates event connector	20

Data Transformer APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CheckTransformation	Checks transformer	20
CreateTransformation	Creates transformer	20
DeleteTransformation	Deletes transformer	20
GetTransformation	Gets transformer details	20
UpdateTransformation	Updates transformer.	20

Event Storage APIs

API Name	Feature	Frequency Limit (maximum requests per second)
SearchLog	Searches for logs.	20
DescribeLogTagValue	Queries log searching metric values	20

Making API Requests

Request Structure

Last updated : 2023-05-22 17:11:23

1. Service Address

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

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

Last updated : 2023-05-22 17:11:23

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

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

Common parameters for Signature Algorithm v3

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

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data you work with belongs. For values supported for an API, see the description of common parameter <code>Region</code> in the input parameters in related API documentation. This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request is sent. For example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error may occur.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the common parameter <code>Version</code> in the API documentation. For example, the version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request;SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date is UNIX time, and this value must match the value of X-TC-Timestamp (a co

			<p>parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencent refers to the CVM product and the value would be cvm;</p> <ul style="list-style-type: none"> - SignedHeaders: The headers that contains the authentication information type and host are the required headers; - Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

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

Example of an HTTP GET request structure:

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

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

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

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

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

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

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

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

```
Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
```

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

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

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

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

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

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

```
--58731222010402
```

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

```
0
```

```
--58731222010402
```

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

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

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

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

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

Example of an HTTP GET request structure:

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

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

Example of an HTTP POST request structure:

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

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

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

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Signature v3

Last updated : 2024-07-23 15:16:20

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	<p>The query string in the URL of the originating HTTP request. This is always an empty string for POST requests, and is the string after the question mark (?) for GET requests. For example: <code>Limit=10&Offset=0</code>.</p> <p>Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.</p>
CanonicalHeaders	<p>Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code>. Custom headers can be added to participate in the signature process to improve the uniqueness and security of the request.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format; If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). <p>The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>.</p> <p>Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating signature verification failed.</p>
SignedHeaders	<p>Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> Both the key and value of the header should be converted to lowercase; If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). <p>The value in this example is <code>content-type;host</code></p>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>

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

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

```
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

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

POST

/

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

host:cvm.tencentcloudapi.com

content-type;host

```
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in request header, which is the UNIX timestamp of the current time in seconds, such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including date, requested service and termination string (<code>tc3_request</code>). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; <code>service</code> is the product name, which should match the domain name of the product called. The calculation result in this example is <code>20180525/cvm/tc3_request</code> .

HashedCanonicalRequest

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

```
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

Note:

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

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

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

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

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

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

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

2. Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

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

The following example shows a finished authorization header:

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

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

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

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

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

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

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

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

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

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

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

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

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

```

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

```

Python

```

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

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

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

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

```

```

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

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

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

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

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

```

Golang

```
package main

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

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

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

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

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

```
canonicalQueryString,  
canonicalHeaders,  
signedHeaders,  
hashedRequestPayload)  
fmt.Println(canonicalRequest)  
  
// step 2: build string to sign  
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")  
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)  
hashedCanonicalRequest := sha256hex(canonicalRequest)  
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",  
algorithm,  
timestamp,  
credentialScope,  
hashedCanonicalRequest)  
fmt.Println(string2sign)  
  
// step 3: sign string  
secretDate := hmacsha256(date, "TC3"+secretKey)  
secretService := hmacsha256(service, secretDate)  
secretSigning := hmacsha256("tc3_request", secretService)  
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))  
fmt.Println(signature)  
  
// step 4: build authorization  
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%  
s",  
algorithm,  
secretId,  
credentialScope,  
signedHeaders,  
signature)  
fmt.Println(authorization)  
  
curl := fmt.Sprintf(`curl -X POST https://%s\  
-H "Authorization: %s"\  
-H "Content-Type: application/json; charset=utf-8"\  
-H "Host: %s" -H "X-TC-Action: %s"\  
-H "X-TC-Timestamp: %d"\  
-H "X-TC-Version: %s"\  
-H "X-TC-Region: %s"\  
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)  
fmt.Println(curl)  
}
```

PHP

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

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

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

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

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

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

Ruby

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

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

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

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

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

puts canonical_request

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

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

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

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

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

DotNet

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

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

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

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

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

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

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

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

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

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

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

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

    // The timestamp `2019-02-26 00:44:25` used here is only for reference. In a project, use the following parameter:
    // DateTime date = DateTime.UtcNow;
    // Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
    DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds(1551113065);
    string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\u672a\\u547d\\u540d\"], \"Name\": \"instance-name\"}]\"}";

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

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

NodeJS

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

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

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

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

function main(){

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

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

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

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

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

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

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

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

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

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

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

C++

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

using namespace std;

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

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

string sha256Hex(const string &str)
{
    char buf[3];
    unsigned char hash[SHA256_DIGEST_LENGTH];
    SHA256_CTX sha256;
    SHA256_Init(&sha256);
    SHA256_Update(&sha256, str.c_str(), str.size());
    SHA256_Final(hash, &sha256);
    std::string NewString = "";
    for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
    {
        sprintf(buf, sizeof(buf), "%02x", hash[i]);
        NewString = NewString + buf;
    }
    return NewString;
}
```

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

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

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

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

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

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

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

```
return output;
}

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

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

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

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

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

```

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

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

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

```

Signature Failure

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

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

Signature

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

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

1. Applying for Security Credentials

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

Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

```

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

```

Python

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

```

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

```

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

Golang

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

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

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$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
```

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

Ruby

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

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

DotNet

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

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

NodeJS

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

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

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

Responses

Last updated : 2022-03-11 18:08:26

Response for Successful Requests

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

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

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

Response for Failed Requests

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

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

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

Common Error Codes

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

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

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

Event Storage APIs

SearchLog

Last updated : 2023-12-01 16:50:01

1. API Description

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

This API is used to query logs.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: SearchLog.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
StartTime	Yes	Integer	Query start time (UNIX in ms)
EndTime	Yes	Integer	Query end time (UNIX in ms)
EventBusId	Yes	String	Event bus ID
Page	Yes	Integer	Page number

Limit	Yes	Integer	Logs returned per page
Filter.N	No	Array of LogFilter	Filter conditions
OrderFields.N	No	Array of String	Sorting array
OrderBy	No	String	Sorting order. Values: <code>asc</code> (earliest first); <code>desc</code> (latest first)

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of logs Note: This field may return null, indicating that no valid values can be obtained.
Limit	Integer	Number of entries per page. Note: This field may return null, indicating that no valid values can be obtained.
Page	Integer	Page number Note: This field may return null, indicating that no valid values can be obtained.
Results	Array of SearchLogResult	Log searching results Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Searching for logs

This example shows you how to search for logs.

Input Example

```
{
  "StartTime": 1673233483024,
  "EndTime": 1673838283024,
  "EventBusId": "eb-xxxxx",
  "Page": 1,
  "Limit": 1000
}
```

Output Example

```
{
  "Response": {
    "RequestId": "584caa6b-26d8-4ba5-858d-df1182730075",
    "Results": [
      {
        "Timestamp": "xxx",
        "Message": "xxx-1",
        "Source": "xxx",
        "Type": "xzz",
        "RuleIds": "xxx",
        "Subject": "xxx",
        "Region": "xxx",
        "Status": "xxx"
      }
    ],
    "Total": 1000,
    "Limit": 500,
    "Page": 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 error.
InvalidParameterValue.Action	The <code>Action</code> value is invalid.
ResourceNotFound	The resource does not exist.

DescribeLogTagValue

Last updated : 2023-12-01 16:50:01

1. API Description

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

This API is used to query log searching metric values.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeLogTagValue.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
StartTime	Yes	Integer	The query start time.
EndTime	Yes	Integer	The query end time.
EventBusId	Yes	String	Event bus ID
GroupField	Yes	String	Aggregation field
Page	Yes	Integer	Number of pages.

Limit	Yes	Integer	Logs returned per page
Filter.N	No	Array of LogFilter	Filter conditions

3. Output Parameters

Parameter Name	Type	Description
Results	Array of String	Query searching metric value. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying log searching field values

This API is used to query log searching field values.

Input Example

```
{
  "StartTime": 1673233483024,
  "EndTime": 1673838283024,
  "EventBusId": "eb-xxxxx",
  "GroupField": "Source",
  "Page": 1,
  "Limit": 1000
}
```

Output Example

```
{
  "Response": {
    "Results": [
      "eb-165v1c2u"
    ],
    "RequestId": "xx"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for 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 error.
InvalidParameterValue.Action	The <code>Action</code> value is invalid.
ResourceNotFound	The resource does not exist.

Delivery Target APIs

CreateTarget

Last updated : 2023-12-01 16:50:04

1. API Description

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

This API is used to create a delivery target.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateTarget.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
Type	Yes	String	Target type
TargetDescription	Yes	TargetDescription	Target description
RuleId	Yes	String	Event rule ID

3. Output Parameters

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

4. Example

Example1 Creating a target

Input Example

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

{
  "EventBusId": "eb-xxxxxx",
  "Type": "scf",
  "TargetDescription": {
    "ResourceDescription": "qcs::scf:ap-guangzhou:uin/xxxxxxxx:namespace/xxxxxx/function/xxxxxx/x"
  },
  "RuleId": "rule-xxxxxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "b7662cf2-ce20-4b3e-aff2-2cb875cf0b6b",
    "TargetId": "target-xxxxxx"
  }
}
```

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.AddPrivateLink	Failed to add the private link
FailedOperation.AuthenticateUserFailed	User authentication failed
FailedOperation.CreateTrigger	Failed to create the delivery target. Please check the function status.
FailedOperation.ESInternalError	ES cluster internal error
FailedOperation.ESRequestFailed	ES cluster operation failure
FailedOperation.ESTemplateConflict	ES indexing template conflict
InvalidParameter.Payload	<code>Payload</code> does not conform to the specification. Please fix it and try again.

InvalidParameterValue.AMPPParams	The <code>AMPPParams</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.BatchEventCount	The <code>BatchEventCount</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.BatchTimeout	The <code>BatchTimeout</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.CKafkaTargetParams	The CKafka parameter is invalid. Please check and try again.
InvalidParameterValue.CallbackType	The <code>CallbackType</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.CallbackWeComURL	The <code>CallbackWeComURL</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.ElasticSearchTargetParams	ES target parameter error
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverChannel	The <code>NoticeReceiverChannel</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverTimeWindow	The <code>NoticeReceiverTimeWindow</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverUserIds	The <code>NoticeReceiverUserIds</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverUserType	The <code>NoticeReceiverUserType</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Qualifier	The <code>Qualifier</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.TargetDescription	The <code>TargetDescription</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Type	The <code>Type</code> value does not conform to the specification. Please fix it and try again.
LimitExceeded.ClusterPrivateLinkExceeded	Reached the upper limit of cluster private links

LimitExceeded.Logset	The <code>Logset</code> quantity has reached the upper limit. You can submit a ticket to increase it.
LimitExceeded.Target	The <code>Target</code> quantity has reached the upper limit. You can submit a ticket to increase it.
LimitExceeded.Trigger	Failed to create the delivery target, as the number of function triggers has reached the limit. You can submit a ticket to increase it.
LimitExceeded.UserPrivateLinkExceeded	Reached the upper limit of private links for the user
OperationDenied.AccountNotExists	Failed to create the delivery target, as it was detected that the current account did not exist. Please check your account status.
OperationDenied.DefaultCLSResourceUnsupported	You cannot create a CLS event target based on the default EventBridge logset in the custom event bus.
OperationDenied.ESVersionUnsupported	The current ES version is not supported.
OperationDenied.EventBusResourceIsLocked	Due to service upgrade, this resource is locked. It may last for about 3-5 minutes. Event pushing is not affected.
OperationDenied.UnsupportedOperation	The current user account type does not support this operation. Please submit a ticket.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Function	The specified <code>Function</code> was not found. Please create it and try again.
ResourceNotFound.Namespace	Failed to create the delivery target, as the specified namespace was not found. Please create it and try again.
ResourceNotFound.PrivateLinkResource	The privatelink is not found.
ResourceNotFound.Role	The specified service role was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.
ResourceNotFound.Target	The specified <code>Target</code> was not found. Please create it and try again.

ResourceNotFound.Version	Failed to create the delivery target, as the specified service version was not found. Please create it and try again.
ResourceUnavailable.ESUnhealth	ES cluster status error
ResourceUnavailable.Target	Failed to create the delivery target, as the current resource was unavailable.

DeleteTarget

Last updated : 2023-12-01 16:50:04

1. API Description

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

This API is used to delete a delivery target.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteTarget.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
TargetId	Yes	String	Delivery target ID
RuleId	Yes	String	Event rule ID

3. Output Parameters

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

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

4. Example

Example1 Deleting target

Input Example

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

{
  "EventBusId": "eb-753e9ung",
  "TargetId": "target-gxk2ukxy",
  "RuleId": "rule-n0v4zane"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "587a0f0e-8c5d-40c2-874b-eabf103d8004"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.AuthenticateUserFailed	User authentication failed
FailedOperation.DeletePrivateLink	Failed to delete the private link
FailedOperation.ESInternalError	ES cluster internal error
FailedOperation.ESRequestFailed	ES cluster operation failure
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.TargetId	The <code>TargetId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Type	The <code>Type</code> value does not conform to the specification. Please fix it and try again.
OperationDenied.ESVersionUnsupported	The current ES version is not supported.
OperationDenied.EventBusResourceIsLocked	Due to service upgrade, this resource is locked. It may last for about 3-5 minutes. Event pushing is not affected.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.NetAssociation	The network resource association is not found.

ResourceNotFound.PrivateLinkResource	The privatelink is not found.
ResourceNotFound.Role	The specified service role was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.
ResourceNotFound.Target	The specified <code>Target</code> was not found. Please create it and try again.

ListTargets

Last updated : 2023-12-01 16:50:04

1. API Description

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

This API is used to get the list delivery targets.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListTargets.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
RuleId	Yes	String	Event rule ID
EventBusId	Yes	String	Event bus ID
OrderBy	No	String	Indicates by which field to sort the returned results. Valid values: AddTime (creation time), ModTime (modification time)
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
Offset	No	Integer	Pagination offset. Default value: 0.
Order	No	String	Indicates whether the returned results are sorted in ascending or

		descending order. Valid values: ASC (ascending order), DESC (descending order)
--	--	--

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of targets
Targets	Array of Target	Target information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the List of Targets

Input Example

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

{
  "EventBusId": "eb-165v1c2",
  "RuleId": "rule-fdltium8"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "03118ade-8de2-4514-af4b-b9a2f170ddd9",
    "Targets": [
      {
        "EventBusId": "eb-165v1c2u",
```

```
"RuleId": "rule-fdltium8",
"TargetDescription": {
"ResourceDescription": "qcs::scf:ap-guanzhou:uin/3473058547:namespace/default/function/test/1"
},
"TargetId": "target-azwj7s7g",
"Type": "scf",
"EnableBatchDelivery": false,
"BatchEventCount": 1,
"BatchTimeout": 1
},
{
"EventBusId": "eb-165v1c2u",
"RuleId": "rule-fdltium8",
"TargetDescription": {
"ResourceDescription": "qcs::scf:ap-guanzhou:uin/3473058547:namespace/default/function/test/1"
},
"TargetId": "target-o5yx01oq",
"Type": "scf",
"EnableBatchDelivery": false,
"BatchEventCount": 1,
"BatchTimeout": 1
},
{
"EventBusId": "eb-165v1c2u",
"RuleId": "rule-fdltium8",
"TargetDescription": {
"ResourceDescription": "qcs::scf:ap-guanzhou:uin/3473058547:namespace/default/function/test/1"
},
"TargetId": "target-prp1ovqi",
"Type": "scf",
"EnableBatchDelivery": false,
"BatchEventCount": 1,
"BatchTimeout": 1
},
{
"EventBusId": "eb-165v1c2u",
"RuleId": "rule-fdltium8",
"TargetDescription": {
"ResourceDescription": "qcs::scf:ap-guanzhou:uin/3473058547:namespace/default/function/test/1"
},
"TargetId": "target-krcwchke",
"Type": "scf",
"EnableBatchDelivery": false,
```

```
"BatchEventCount": 1,
"BatchTimeout": 1
},
{
"EventBusId": "eb-165v1c2u",
"RuleId": "rule-fdltium8",
"TargetDescription": {
"ResourceDescription": "qcs::scf:ap-guanzhou:uin/3473058547:namespace/default/function/test/1"
},
"TargetId": "target-e9r3a110",
"Type": "scf",
"EnableBatchDelivery": false,
"BatchEventCount": 1,
"BatchTimeout": 1
}
],
"TotalCount": 5
}
}
```

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
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Limit	The <code>Limit</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Offset	The <code>Offset</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Order	The <code>Order</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.OrderBy	The <code>OrderBy</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.TargetId	The <code>TargetId</code> value does not conform to the specification. Please fix it and try again.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.

UpdateTarget

Last updated : 2023-12-01 16:50:04

1. API Description

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

This API is used to update a delivery target.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateTarget.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
RuleId	Yes	String	Event rule ID
TargetId	Yes	String	Delivery target ID
EnableBatchDelivery	No	Boolean	Enables batch delivery
BatchTimeout	No	Integer	Maximum waiting time for batch delivery
BatchEventCount	No	Integer	Maximum number of events in batch delivery

3. Output Parameters

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

4. Example

Example1 Updating target

Input Example

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

{
  "EnableBatchDelivery": "true",
  "RuleId": "rule-51wvf3is",
  "BatchEventCount": "32",
  "TargetId": "target-ceh92ss4",
  "EventBusId": "eb-ohb9x6rg",
  "BatchTimeout": "43"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "72b987c9-8842-47ac-9ad6-fa2bde3e936d"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
InternalError	Internal error.
InvalidParameterValue.BatchTimeout	The <code>BatchTimeout</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.CallbackType	The <code>CallbackType</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.CallbackWeComURL	The <code>CallbackWeComURL</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverChannel	The <code>NoticeReceiverChannel</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverTimeWindow	The <code>NoticeReceiverTimeWindow</code> value does not conform to the specification. Please fix it and try again.

InvalidParameterValue.NoticeReceiverUserIds	The <code>NoticeReceiverUserIds</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverUserType	The <code>NoticeReceiverUserType</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.TargetId	The <code>TargetId</code> value does not conform to the specification. Please fix it and try again.
OperationDenied.ResourceImmutable	The operation failed, as the resource could not be modified or deleted.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.
ResourceNotFound.Target	The specified <code>Target</code> was not found. Please create it and try again.

Event Bus APIs

DeleteEventBus

Last updated : 2023-12-01 16:50:03

1. API Description

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

This API is used to delete an event bus.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteEventBus.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID

3. Output Parameters

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

locating a problem.

4. Example

Example1 Deleting event bus

Input Example

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

{
  "EventBusId": "eb-165v1c2u"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "b3103b8d-77a6-4b55-b42f-a25e2dc453a9"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.UnTagResource	Failed to unbind the tag
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
OperationDenied.EventBusResourceIsLocked	Due to service upgrade, this resource is locked. It may last for about 3-5 minutes. Event pushing is not affected.
OperationDenied.ResourceImmutable	The operation failed, as the resource could not be modified or deleted.
ResourceInUse.EventBus	Failed to delete the event bus. Please first delete all rules, connectors and archives of it.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Tag	The specified tag is not found.

CreateEventBus

Last updated : 2023-12-01 16:50:04

1. API Description

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

This API is used to create an event bus.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateEventBus.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusName	Yes	String	Event bus name: it can contain 2-60 letters, digits, underscores, and hyphens and must start with a letter and end with a digit or letter.
Description	No	String	Event bus description, which can contain up to 200 characters of any type.
SaveDays	No	Integer	Log retention period
EnableStore	No	Boolean	Whether to enable log storage

3. Output Parameters

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

4. Example

Example1 Creating an event bus

This document shows you how to create an event bus.

Input Example

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

{
  "EventBusName": "test"
}
```

Output Example

```
{
  "Response": {
    "EventBusId": "eb-xxxxxxx",
    "RequestId": "e3d43926-c2cd-49f2-97f0-53db21e6fcea"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.RegisterCLSService	Failed to register the CLS service.
FailedOperation.TagResource	Failed to bind the tag
FailedOperation.TagResourceAllocateQuotas	Failed to apply for more tag quota
InternalServerError	Internal error.
InvalidParameterValue.Description	The <code>Description</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusName	The value of <code>EventBusName</code> is invalid. Please check and try again.
InvalidParameterValue.EventTraceConfig	The linkage tracing parameter is invalid. Please check and try again.
InvalidParameterValue.LinkMode	The value of <code>LinkMode</code> is invalid. Please check and try again.
InvalidParameterValue.Tags	Incorrect tag parameter

InvalidParameterValue.Type	The <code>Type</code> value does not conform to the specification. Please fix it and try again.
LimitExceeded.EventBus	The number of <code>EventBus</code> reaches the upper limit. You can submit a ticket to increase it.
LimitExceeded.InsufficientBalance	Failed to create the resource: Insufficient balance. Please check and try again.
OperationDenied.DefaultCLSResourceUnsupported	You cannot create a CLS event target based on the default EventBridge logset in the custom event bus.
OperationDenied.EventBusResourceIsLocked	Due to service upgrade, this resource is locked. It may last for about 3-5 minutes. Event pushing is not affected.
ResourceInUse.DefaultEventBus	The default Tencent Cloud service event bus cannot be created repeatedly in the same region.
ResourceInUse.EventBus	Failed to delete the event bus. Please first delete all rules, connectors and archives of it.
ResourceNotFound	The resource does not exist.
ResourceNotFound.Role	The specified service role was not found. Please create it and try again.
ResourceNotFound.Tag	The specified tag is not found.
ResourceUnavailable.Target	Failed to create the delivery target, as the current resource was unavailable.

GetEventBus

Last updated : 2023-12-01 16:50:03

1. API Description

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

This API is used to get the details of an event bus.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetEventBus.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID

3. Output Parameters

Parameter Name	Type	Description
ModTime	Timestamp ISO8601	Update time

Description	String	Event bus description
ClsTopicId	String	Log topic ID
AddTime	Timestamp ISO8601	Creation time.
ClsLogsetId	String	Logset ID
EventBusName	String	Event bus name
EventBusId	String	Event bus ID
Type	String	(Disused) Event bus type
PayMode	String	Billing mode
SaveDays	Integer	EventBridge log storage period Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
LogTopicId	String	EventBridge log topic ID Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
EnableStore	Boolean	Whether to enable log storage Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
LinkMode	String	Whether to sort the message Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying details of an event bus

This example shows you how to query details of an event bus.

Input Example

```
POST / HTTP/1.1
Host: eb.tencentcloudapi.com
```

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

{
  "EventBusId": "eb-l65v1c2"
}
```

Output Example

```
{
  "Response": {
    "AddTime": "2022-12-12T20:09:46+08:00",
    "ClsLogsetId": "",
    "ClsTopicId": "",
    "Description": "",
    "EventBusId": "eb-0gdrbv5q",
    "EventBusName": "default",
    "ModTime": "2022-12-12T20:09:46+08:00",
    "PayMode": "",
    "LogTopicId": "xxx",
    "SaveDays": "1",
    "EnableStore": true,
    "LinkMode": "Disorder",
    "RequestId": "ffd4aae2-c29e-40a8-b18c-037a17ed810c",
    "Type": "Cloud"
  }
}
```

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
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.

ListEventBuses

Last updated : 2023-12-01 16:50:03

1. API Description

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

This API is used to get the list of event buses.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListEventBuses.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
OrderBy	No	String	Indicates by which field to sort the returned results. Valid values: AddTime (creation time), ModTime (modification time)
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
Order	No	String	Indicates whether the returned results are sorted in ascending or descending order. Valid values: ASC (ascending order), DESC (descending order)
Filters.N	No	Array of Filter	Filter. For more information, see the Instance Filter Table below. Each request can contain up to 10 <code>Filters</code> and 5 <code>Filter.Values</code> .

Offset	No	Integer	Pagination offset. Default value: 0.
--------	----	---------	--------------------------------------

3. Output Parameters

Parameter Name	Type	Description
EventBuses	Array of EventBus	Event bus information
TotalCount	Integer	Total number of event buses
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of event buses

This example shows you how to query the list of event buses.

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "EventBuses": [
      {
        "ModTime": "2020-09-22T00:00:00+00:00",
        "Description": "xx",
        "AddTime": "2020-09-22T00:00:00+00:00",
        "EventBusName": "xx",

```

```
"EventBusId": "xx",
"Type": "xx"
},
"TotalCount": 0,
"RequestId": "xx"
}
```

5. Developer Resources

SDK

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

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- [Tencent Cloud SDK 3.0 for 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 error.
InvalidParameterValue.Filters	The <code>Filters</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Limit	The <code>Limit</code> value does not conform to the specification. Please fix it and

	try again.
InvalidParameterValue.Offset	The <code>Offset</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Order	The <code>Order</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.OrderBy	The <code>OrderBy</code> value does not conform to the specification. Please fix it and try again.
UnauthorizedOperation.CAM	The current account does not have permissions to use EB. Please log in to the CAM console for authorization.

UpdateEventBus

Last updated : 2023-12-01 16:50:03

1. API Description

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

This API is used to update an event bus.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateEventBus.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
Description	No	String	Event bus description, which can contain up to 200 characters of any type.
EventBusName	No	String	Event bus name: it can contain 2-60 letters, digits, underscores, and hyphens and must start with a letter and end with a digit or letter.
SaveDays	No	Integer	Log retention period
LogTopicId	No	String	EventBridge log topic ID

EnableStore	No	Boolean	Whether to enable log retention
-------------	----	---------	---------------------------------

3. Output Parameters

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

4. Example

Example1 Updating an event bus

This example shows you how to update an event bus.

Input Example

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

{
  "EventBusName": "test111",
  "EventBusId": "eb-165v1c2"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "18484e4f-f6f1-4b87-8827-27422b30c8c4"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.RegisterCLSService	Failed to register the CLS service.
InvalidParameter.Payload	<code>Payload</code> does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Description	The <code>Description</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusName	The value of <code>EventBusName</code> is invalid. Please check and try again.
InvalidParameterValue.EventTraceConfig	The linkage tracing parameter is invalid. Please check and try again.
OperationDenied.DefaultCLSResourceUnsupported	You cannot create a CLS event target based on the default EventBridge logset in the custom event bus.
OperationDenied.ResourceImmutable	The operation failed, as the resource could not be modified or deleted.

ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.

Event Rule APIs

CheckRule

Last updated : 2023-12-01 16:50:02

1. API Description

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

This API is used to check a rule.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CheckRule.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

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

4. Example

Example1 Checking rules

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.ErrorFilter	The rule does not match with the event. Please modify and try again.
InternalServerError	Internal error.
InternalServerError.System	Service error. Please try again. If the problem persists, please submit a ticket.
InternalServerError.UnknownInternalServerError	
InvalidParameter	Parameter error.
InvalidParameterValue.InvalidFilterRule	Invalid event mode format. Please check and try again.
InvalidParameterValue.InvalidPattern	Invalid matching rules. Please check and try again.

CreateRule

Last updated : 2023-12-12 16:26:01

1. API Description

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

This API is used to create an event rule.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateRule.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventPattern	Yes	String	See Event Pattern .
EventBusId	Yes	String	Event bus ID.
RuleName	Yes	String	Event bus name, which can contain 2–60 letters, digits, underscores, and hyphens and must start with a letter and end with a digit or letter
Enable	No	Boolean	Switch.
Description	No	String	Event bus description, which can contain up to 200 characters of any type

3. Output Parameters

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

4. Example

Example1 Creating a Filter Rule

Input Example

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

{
  "EventBusId": "eb-anao4i7q",
  "Description": "rule-test1",
  "Enable": true,
  "EventPattern": "{\n \"source\": [\n \"kafka.cloud.tencent\"\n ]\n}",
  "RuleName": "rule-test1"
}
```

Output Example

```
{
  "Response": {
    "RuleId": "rule-xxxxxxx",
    "RequestId": "xxxxxxxxxxxxxxxxxxxxxx"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.TagResource	Failed to bind the tag
FailedOperation.TagResourceAllocateQuotas	Failed to apply for more tag quota
InvalidParameterValue.DeadLetterConfig	The dead letter queue parameter is invalid. Please check and try again.
InvalidParameterValue.Description	The <code>Description</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventPattern	The <code>EventPattern</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleName	The <code>RuleName</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Tags	Incorrect tag parameter
InvalidParameterValue.Type	The <code>Type</code> value does not conform to the specification. Please fix it and try again.

Error Code	Description
LimitExceeded.Rule	The <code>Rule</code> quantity has reached the upper limit. You can submit a ticket to increase it.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Tag	The specified tag is not found.

DeleteRule

Last updated : 2023-12-01 16:50:02

1. API Description

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

This API is used to delete an event rule.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteRule.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
RuleId	Yes	String	Event rule ID

3. Output Parameters

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

locating a problem.

4. Example

Example1 Deleting an event rule

Input Example

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

{
  "RuleId": "rule-xxxxxxx",
  "EventBusId": "eb-l65v1c2u"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "e3d43926-c2cd-49f2-97f0-53db21e6fcea"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DeleteRule	Failed to delete the rule. Please make sure the resource exists, and the status is normal.
FailedOperation.UnTagResource	Failed to unbind the tag
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please fix it and try again.
ResourceInUse.Rule	There are targets under the rule, so it cannot be deleted. Please delete all targets and try again.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.
ResourceNotFound.Tag	The specified tag is not found.

ListRules

Last updated : 2023-12-01 16:50:01

1. API Description

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

This API is used to get the list of event rules.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListRules.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
OrderBy	No	String	Indicates by which field to sort the returned results. Valid values: AddTime (creation time), ModTime (modification time)
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
Offset	No	Integer	Pagination offset. Default value: 0.
Order	No	String	Indicates whether the returned results are sorted in ascending or descending order. Valid values: ASC (ascending order), DESC (descending order)

3. Output Parameters

Parameter Name	Type	Description
Rules	Array of Rule	Event rule information
TotalCount	Integer	Total number of event rules
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting event rule list

Input Example

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

{
  "EventBusId": "eb-165v1c2"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "bfbf943a-0032-461c-89e6-260f7a3d520d",
    "Rules": [
      {
        "AddTime": "2021-04-29T00:06:22+08:00",
        "Description": "",
        "Enable": true,
        "EventBusId": "eb-165v1c2u",
        "ModTime": "2021-04-28T16:06:22+08:00",
        "RuleId": "rule-fdltium8",
        "RuleName": "sssss",

```

```
"Status": "Active",
"Targets": null,
"DeadLetterConfig": null
},
{
  "AddTime": "2021-04-28T16:00:14+08:00",
  "Description": "",
  "Enable": true,
  "EventBusId": "eb-165v1c2u",
  "ModTime": "2021-04-28T16:00:14+08:00",
  "RuleId": "rule-m5ut05gs",
  "RuleName": "rule",
  "Status": "Active",
  "Targets": null,
  "DeadLetterConfig": null
}
],
"TotalCount": 2
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for 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
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Filters	The <code>Filters</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Limit	The <code>Limit</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Order	The <code>Order</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.OrderBy	The <code>OrderBy</code> value does not conform to the specification. Please fix it and try again.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.

UpdateRule

Last updated : 2023-12-01 17:29:05

1. API Description

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

This API is used to update an event rule.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateRule.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
RuleId	Yes	String	Event rule ID
EventBusId	Yes	String	Event bus ID
Enable	No	Boolean	Switch.
Description	No	String	Rule description, which can contain up to 200 characters of any type.
EventPattern	No	String	See Event Pattern
RuleName	No	String	Event rule name, which can contain 2–60 letters, digits, underscores, and hyphens and must start with a letter and end with a digit or letter

3. Output Parameters

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

4. Example

Example1 Updating a rule

Input Example

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

{
  "RuleId": "rule-fdltium8",
  "EventBusId": "eb-l65vlc2",
  "RuleName": "sssss"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "e5d57478-9baf-483d-a5db-b1067424e469"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.UpdateRule	Failed to update the rule. Please make sure the resource exists, and the status is normal.
InvalidParameter.Payload	<code>Payload</code> does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Description	The <code>Description</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventPattern	The <code>EventPattern</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleName	The <code>RuleName</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Type	The <code>Type</code> value does not conform to the specification. Please fix it and try again.

Error Code	Description
OperationDenied.ResourceImmutable	The operation failed, as the resource could not be modified or deleted.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.

GetRule

Last updated : 2023-12-01 16:50:01

1. API Description

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

This API is used to get the details of an event rule.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetRule.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
RuleId	Yes	String	Event rule ID

3. Output Parameters

Parameter Name	Type	Description
EventBusId	String	Event bus ID

RuleId	String	Event rule ID
RuleName	String	Event rule name
Status	String	Event rule status
Enable	Boolean	Switch
Description	String	Event rule description
EventPattern	String	Event pattern
AddTime	Timestamp ISO8601	Creation time
ModTime	Timestamp ISO8601	Update time
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying details of a rule

This example shows you how to query details of a rule.

Input Example

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

{
  "EventBusId": "eb-165v1c2",
  "RuleId": "rule-qr2wsqqy"
}
```

Output Example

```
{
  "Response": {
    "AddTime": "2021-04-29T20:01:27+08:00",
```

```
"Description": "",
"Enable": true,
"EventBusId": "eb-165v1c2u",
"EventPattern": "{\"data\":{\"prefix\":[\"1\",\"2\"]}}",
"ModTime": "2021-04-29T20:01:28+08:00",
"RequestId": "9babdbaf-85d9-4d79-8eb7-14fd989cf99a",
"RuleId": "rule-qr2wsqyqy",
"RuleName": "test",
"Status": "Active"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please

	fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please fix it and try again.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.

Event Connector APIs

CreateConnection

Last updated : 2023-12-01 16:50:03

1. API Description

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

This API is used to create an event connector.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateConnection.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
ConnectionDescription	Yes	ConnectionDescription	Connector description
EventBusId	Yes	String	Event bus ID
ConnectionName	Yes	String	Connector name
Description	No	String	Description

Enable	No	Boolean	Whether to enable
Type	No	String	Type of the connector

3. Output Parameters

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

4. Example

Example1 Creating a Connector

Input Example

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

{
  "EventBusId": "eb-165v1c2",
  "Type": "tdmq",
  "ConnectionDescription": {
    "ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pulsar-5r5drqo7j8/user/test/sub1",
    "APIGWParams": null
  },
  "ConnectionName": "conn"
}
```

Output Example

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

```
"ConnectionId": "connection-5t492ybt",
"RequestId": "99d8d400-2bde-49d6-99f4-7367907e5964"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ServiceError	ServiceError: operation failed. Please check the resource information.
InternalError.OssException	An error occurred while processing the service. Please try again later. If the problem persists, please contact the smart customer service or submit a ticket.
InvalidParameterValue.ConnectionDescription	The <code>ConnectionDescription</code> value does not

	conform to the specification. Please fix it and try again.
InvalidParameterValue.ConnectionName	The value of <code>ConnectionName</code> is invalid. Please check and try again.
InvalidParameterValue.DTSParams	The value of <code>AMPParams</code> is invalid. Please check and try again.
InvalidParameterValue.Description	The <code>Description</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusName	The value of <code>EventBusName</code> is invalid. Please check and try again.
InvalidParameterValue.InvalidApiRequestConfig	The value of <code>InvalidApiRequestConfig</code> is invalid. Please check and try again.
InvalidParameterValue.Type	The <code>Type</code> value does not conform to the specification. Please fix it and try again.
LimitExceeded.Connection	The number of <code>Connection</code> reaches the upper limit. You can submit a ticket to increase it.
LimitExceeded.RouteOverLimit	The number of <code>RouteOverLimit</code> reaches the upper limit. Submit a ticket to increase it.
OperationDenied.EventBusResourceIsLocked	Due to service upgrade, this resource is locked. It may last for about 3-5 minutes. Event pushing is not affected.
OperationDenied.ResourceImmutable	The operation failed, as the resource could not be modified or deleted.
OperationDenied.UnsupportedOperation	The current user account type does not support this operation. Please submit a ticket.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.InvalidService	The connector operation failed, as the specified API Gateway service was not found.
ResourceNotFound.Role	The specified service role was not found. Please create it and try again.
ResourceNotFound.Target	The specified <code>Target</code> was not found. Please create it

	and try again.
ResourceUnavailable.Connection	Failed to create the connector: The current resource is unavailable.
UnsupportedOperation	Unsupported operation
UnsupportedOperation.InvalidAction	The connector operation failed, as the API did not support the current operation.
UnsupportedOperation.InvalidEndpointType	Failed to create the connector: The current backend service type is not supported.

DeleteConnection

Last updated : 2023-12-01 16:50:03

1. API Description

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

This API is used to delete an event connector.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteConnection.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
ConnectionId	Yes	String	Connector ID
EventBusId	Yes	String	Event bus ID

3. Output Parameters

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

locating a problem.

4. Example

Example1 Deleting connector

Input Example

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

{
  "ConnectionId": "connection-ljwdx09",
  "EventBusId": "eb-165v1c2"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4ec69b78-1e6a-4c39-b6e0-217d496ada7d"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DeleteConnection	Failed to delete the connector. Please check the resource status.
FailedOperation.ServiceError	ServiceError: operation failed. Please check the resource information.
InternalError.OssException	An error occurred while processing the service. Please try again later. If the problem persists, please contact the smart customer service or submit a ticket.
InvalidParameterValue.ConnectionDescription	The <code>ConnectionDescription</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
OperationDenied.EventBusResourceIsLocked	Due to service upgrade, this resource is locked. It may last for about 3-5 minutes. Event pushing is not affected.
ResourceNotFound	The resource does not exist.
ResourceNotFound.Connection	The specified <code>Connection</code> was not found. Please create it and try again.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.InvalidApi	Failed to delete the connector, as the specified API was not found.
ResourceNotFound.InvalidService	The connector operation failed, as the specified API Gateway service was not found.

UnsupportedOperation.InvalidAction

The connector operation failed, as the API did not support the current operation.

ListConnections

Last updated : 2023-12-01 16:50:02

1. API Description

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

This API is used to get the list of event connectors.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ListConnections.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
OrderBy	No	String	Indicates by which field to sort the returned results. Valid values: AddTime, ModTime
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
Order	No	String	Indicates whether the returned results are sorted in ascending or descending order. Valid values: ASC, DESC
Offset	No	Integer	Offset. Default value: 0.

3. Output Parameters

Parameter Name	Type	Description
Connections	Array of Connection	Connector information
TotalCount	Integer	Total number of connectors
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting connector list

Input Example

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

{
  "EventBusId": "eb-165v1c2"
}
```

Output Example

```
{
  "Response": {
    "Connections": [],
    "RequestId": "cec4c711-4e68-43ac-988f-00171f2b2146",
    "TotalCount": 0
  }
}
```

Example2 Getting connector list 1

Input Example

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

{
  "EventBusId": "eb-165v1c2"
}
```

Output Example

```
{
  "Response": {
    "Connections": [
      {
        "AddTime": "2021-04-29T13:13:43+08:00",
        "ConnectionDescription": {
          "APIGWParams": null,
          "ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pu
lsar-5r5drqo7j8/user/test/sub1"
        },
        "ConnectionId": "connection-5t492ybt",
        "ConnectionName": "conn",
        "Description": "",
        "Enable": false,
        "EventBusId": "eb-165v1c2u",
        "ModTime": "2021-04-29T13:13:44+08:00",
        "Status": "Active",
        "Type": "tdmq"
      },
      {
        "AddTime": "2021-04-29T13:00:32+08:00",
        "ConnectionDescription": {
          "APIGWParams": null,
          "ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pu
lsar-5r5drqo7j8/user/test/sub1"
        },
        "ConnectionId": "connection-7mpfojtt",
        "ConnectionName": "conn",
        "Description": "",
        "Enable": false,
        "EventBusId": "eb-165v1c2u",
        "ModTime": "2021-04-29T13:00:33+08:00",
        "Status": "Failed",
      }
    ]
  }
}
```

```
"Type": "tdmq"
},
{
  "AddTime": "2021-04-29T12:58:24+08:00",
  "ConnectionDescription": {
    "APIGWParams": null,
    "ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pu
lsar-5r5drqo7j8/user/test/sub1"
  },
  "ConnectionId": "connection-1l11bb0h",
  "ConnectionName": "conn",
  "Description": "",
  "Enable": false,
  "EventBusId": "eb-165v1c2u",
  "ModTime": "2021-04-29T12:58:24+08:00",
  "Status": "Failed",
  "Type": "tdmq"
},
{
  "AddTime": "2021-04-29T12:01:34+08:00",
  "ConnectionDescription": {
    "APIGWParams": null,
    "ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pu
lsar-5r5drqo7j8/user/test/sub1"
  },
  "ConnectionId": "connection-6s29eqob",
  "ConnectionName": "conn",
  "Description": "",
  "Enable": false,
  "EventBusId": "eb-165v1c2u",
  "ModTime": "2021-04-29T12:01:35+08:00",
  "Status": "Failed",
  "Type": "tdmq"
},
{
  "AddTime": "2021-04-29T11:46:27+08:00",
  "ConnectionDescription": {
    "APIGWParams": null,
    "ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pu
lsar-5r5drqo7j8/user/test/sub1"
  },
  "ConnectionId": "connection-dka58wiv",
  "ConnectionName": "conn",
  "Description": "",
  "Enable": false,
  "EventBusId": "eb-165v1c2u",
  "ModTime": "2021-04-29T11:46:28+08:00",
```

```
"Status": "Failed",
>Type": "tdmq"
},
{
>AddTime": "2021-04-29T11:42:44+08:00",
>ConnectionDescription": {
>APIGWParams": null,
>ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pu
lsar-5r5drqo7j8/user/test/sub1"
},
>ConnectionId": "connection-r1o76r2d",
>ConnectionName": "conn",
>Description": "",
>Enable": false,
>EventBusId": "eb-165v1c2u",
>ModTime": "2021-04-29T11:42:44+08:00",
>Status": "Failed",
>Type": "tdmq"
},
{
>AddTime": "2021-04-29T11:35:12+08:00",
>ConnectionDescription": {
>APIGWParams": null,
>ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pu
lsar-5r5drqo7j8/user/test/sub1"
},
>ConnectionId": "connection-ay3ix129",
>ConnectionName": "conn",
>Description": "",
>Enable": false,
>EventBusId": "eb-165v1c2u",
>ModTime": "2021-04-29T11:35:13+08:00",
>Status": "Failed",
>Type": "tdmq"
},
{
>AddTime": "2021-04-29T11:24:45+08:00",
>ConnectionDescription": {
>APIGWParams": null,
>ResourceDescription": "qcs::tdmq:ap-guangzhou:uin/3473058547:subscriptionName/pu
lsar-5r5drqo7j8/user/test/sub1"
},
>ConnectionId": "connection-heno97b7",
>ConnectionName": "conn",
>Description": "",
>Enable": false,
>EventBusId": "eb-165v1c2u",
```

```
"ModTime": "2021-04-29T11:24:45+08:00",
"Status": "Failed",
"Type": "tdmq"
},
"RequestId": "e576a375-88ae-4c3f-84a9-0bf28dc7b0ee",
"TotalCount": 8
}
```

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
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Limit	The <code>Limit</code> value does not conform to the specification. Please fix it and try again.

InvalidParameterValue.Offset	The <code>Offset</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Order	The <code>Order</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.OrderBy	The <code>OrderBy</code> value does not conform to the specification. Please fix it and try again.
ResourceNotFound	The resource does not exist.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.

UpdateConnection

Last updated : 2023-12-01 16:50:02

1. API Description

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

This API is used to update an event connector.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateConnection.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
ConnectionId	Yes	String	Connector ID
EventBusId	Yes	String	Event bus ID
Enable	No	Boolean	Switch
Description	No	String	Description
ConnectionName	No	String	Connector name

3. Output Parameters

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

4. Example

Example1 Updating a Connector

Input Example

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

{
  "EventBusId": "eb-165v1c2u",
  "ConnectionId": "connection-165v1c2u"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "b3103b8d-77a6-4b55-b42f-a25e2dc453a9"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.UpdateConnection	Failed to update the connector. Please make sure the resource exists, and the status is normal.
InvalidParameter.EnableAPIGateway	APIGateway cannot be enabled or disabled. Please check and try again.
InvalidParameterValue.ConnectionId	The <code>ConnectionId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
OperationDenied.ResourceImmutable	The operation failed, as the resource could not be modified or deleted.
ResourceNotFound.Connection	The specified <code>Connection</code> was not found. Please create it and try again.

Data Transformer APIs

CheckTransformation

Last updated : 2023-12-01 16:50:05

1. API Description

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

This API is used to test rules and data on the ETL configuration 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	Common Params . The value used for this API: CheckTransformation.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
Input	Yes	String	JSON string to be processed
Transformations.N	Yes	Array of Transformation	Transformation rule list

3. Output Parameters

Parameter Name	Type	Description
Output	String	Data processed by <code>Transformations</code>
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Checking transformer

Input Example

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

{
  "Input": "{\"data\":{\"msgBody\":{\"city\":\"shenzhen\",\"temp\":32,
  \"weather\":\"sunny\"}}}\",
  "Transformations": [
    {
      "Extraction": {
        "ExtractionInputPath": "$.data.msgBody",
        "Format": "JSON",
        "TextParams": {
          "Separator": ":",
          "Regex": "shenzhen"
        }
      },
      "EtlFilter": {
        "Filter": "{\"city\":[{\"contain\":\"shen\"}]}"
      },
      "Transform": {
        "OutputStructs": [
          {
            "Key": "city",
            "Value": "$.city",

```

```
"ValueType": "JSONPATH"
},
{
  "Key": "const",
  "Value": "11",
  "ValueType": "NUMBER"
},
{
  "Key": "sdate",
  "Value": "date",
  "ValueType": "SYS_VARIABLE"
}
]
}
}
]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "589fd30c-49c9-11ec-9ad1-5254006e5bc5",
    "Output": "{\"sdate\":\"2021-11-20T14:16:06+08:00\",\"city\":\"shenzhen\",\"const\":11}"
  }
}
```

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](#).

CreateTransformation

Last updated : 2023-12-01 16:50:05

1. API Description

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

This API is used to create a transformer.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateTransformation.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
RuleId	Yes	String	Rule ID
Transformations.N	Yes	Array of Transformation	Transformation rule list (currently, only one is supported)

3. Output Parameters

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

4. Example

Example1 Creating a transformer

Input Example

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

{
  "EventBusId": "eb-xxxxx",
  "RuleId": "rule-xxxxx",
  "Transformations": [
    {
      "Extraction": {
        "ExtractionInputPath": "$",
        "Format": "JSON"
      },
      "EtlFilter": {
        "Filter": "{\"source\":\"ckafka.cloud.tencent\"}"
      },
      "Transform": {
        "OutputStructs": [
          {
            "Key": "data",
            "Value": "$.data",
            "ValueType": "STRING"
          },
          {
            "Key": "age",
            "Value": "$.age",
            "ValueType": "NUMBER"
          }
        ]
      }
    }
  ]
}
```

```
}  
}  
]  
}
```

Output Example

```
{  
  "Response": {  
    "TransformationId": "tsfm-xxxxxxx",  
    "RequestId": "e3d43926-c2cd-49f2-97f0-53db21e6fcea"  
  }  
}
```

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

InvalidParameterValue.Transformations	Failed to create the data transformation task: The parameter is invalid. Please check and try again.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.

DeleteTransformation

Last updated : 2023-12-01 16:50:05

1. API Description

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

This API is used to delete a transformer.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteTransformation.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
RuleId	Yes	String	Rule ID
TransformationId	Yes	String	Transformer ID

3. Output Parameters

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

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

4. Example

Example1 Deleting a transformer

Input Example

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

{
  "EventBusId": "eb-xxxxx",
  "RuleId": "rule-xxxxxxxxx",
  "TransformationId": "tsfm-xxxxxxxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xxxxxxxxx"
  }
}
```

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
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.TransformationID	The data transformation parameter is invalid. Please check and try again.
ResourceNotFound.Transformation	The specified task is not found. Please check and try again.

GetTransformation

Last updated : 2023-12-01 16:50:05

1. API Description

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

This API is used to get the details of a transformer.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetTransformation.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
RuleId	Yes	String	Rule ID
TransformationId	Yes	String	Transformer ID

3. Output Parameters

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

Transformations	Array of Transformation	Transformation rule list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting transformer details

Input Example

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

{
  "EventBusId": "eb-xxxxx",
  "RuleId": "rule-xxxxxxxxx",
  "TransformationId": "tsfm-xxxxxxxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx",
    "Transformations": [
      {
        "EtlFilter": {
          "Filter": "{\"source\":\"ckafka.cloud.tencent\"}"
        },
        "Extraction": {
          "ExtractionInputPath": "$",
          "Format": "JSON",
          "TextParams": {
            "Separator": ","
          }
        },
        "Transform": {
          "OutputStructs": [
            {
```

```
"Key": "age",
"Value": "$.age",
"ValueType": "NUMBER"
}
]
}
}
]
}
}
```

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
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please

	fix it and try again.
InvalidParameterValue.TransformationID	The data transformation parameter is invalid. Please check and try again.
ResourceNotFound	The resource does not exist.
ResourceNotFound.Transformation	The specified task is not found. Please check and try again.

UpdateTransformation

Last updated : 2023-12-01 16:50:05

1. API Description

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

This API is used to update a transformer.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateTransformation.
Version	Yes	String	Common Params . The value used for this API: 2021-04-16.
Region	No	String	Common Params . This parameter is not required for this API.
EventBusId	Yes	String	Event bus ID
RuleId	Yes	String	Rule ID
TransformationId	Yes	String	Transformer ID
Transformations.N	Yes	Array of Transformation	Transformation rule list (currently, only one is supported)

3. Output Parameters

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

4. Example

Example1 Updating a transformer

Input Example

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

{
  "EventBusId": "eb-xxxxx",
  "RuleId": "rule-xxxxx",
  "TransformationId": "tsfm-xxxxx",
  "Transformations": [
    {
      "Extraction": {
        "ExtractionInputPath": "$",
        "Format": "JSON"
      },
      "EtlFilter": {
        "Filter": "{\"source\":\"ckafka.cloud.tencent\"}"
      },
      "Transform": {
        "OutputStructs": [
          {
            "Key": "data",
            "Value": "$.data",
            "ValueType": "STRING"
          },
          {
            "Key": "age",
            "Value": "$.age",

```

```
"ValueType": "NUMBER"
}
]
}
}
]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "e3d43926-c2cd-49f2-97f0-53db21e6fcea"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

--	--

Error Code	Description
InvalidParameterValue.TransformationID	The data transformation parameter is invalid. Please check and try again.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.

Data Types

Last updated : 2023-12-01 16:50:05

APIGWParams

APIGWParams description

Used by actions: CreateConnection, ListConnections.

Name	Type	Required	Description
Protocol	String	Yes	HTTPS
Method	String	Yes	POST

CkafkaDeliveryParams

Parameter of the Kafka topic to be delivered to

Used by actions: ListRules.

Name	Type	Required	Description
TopicName	String	Yes	ckafka topic name
ResourceDescription	String	Yes	Six-Segment QCS description of CKafka resource

CkafkaParams

CKafka connector parameter

Used by actions: CreateConnection, ListConnections.

Name	Type	Required	Description
Offset	String	Yes	kafka offset
TopicName	String	Yes	ckafka topic

CkafkaTargetParams

CKafka delivery target description

Used by actions: CreateTarget.

Name	Type	Required	Description
TopicName	String	Yes	CKafka topic to be delivered to
RetryPolicy	RetryPolicy	Yes	Retry policy

Connection

Connection information

Used by actions: ListConnections.

Name	Type	Description
Status	String	Status
ModTime	Timestamp ISO8601	Update time
Enable	Boolean	Switch
Description	String	Description
AddTime	Timestamp ISO8601	Creation time
ConnectionId	String	Connector ID
EventBusId	String	Event bus ID
ConnectionDescription	ConnectionDescription	Connector description
ConnectionName	String	Connector name
Type	String	Type

ConnectionBrief

Connector basic information

Used by actions: ListEventBuses.

Name	Type	Description
Type	String	Connector type Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Status	String	Connector status Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

ConnectionDescription

Connection description

Used by actions: CreateConnection, ListConnections.

Name	Type	Required	Description
ResourceDescription	String	Yes	Six-Segment QCS resource description. For more information, see Resource Description Method
APIGWParams	APIGWParams	No	API Gateway parameters Note: this field may return null, indicating that no valid values can be obtained.
CkafkaParams	CkafkaParams	No	CKafka parameters Note: this field may return null, indicating that no valid values can be obtained.
DTSPParams	DTSPParams	No	Data Transfer Service (DTS) connector information Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

DTSPParams

Data Transfer Service (DTS) connector information

Used by actions: CreateConnection, ListConnections.

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

DeadLetterConfig

DLQ configuration of rule

Used by actions: ListRules.

Name	Type	Required	Description
DisposeMethod	String	Yes	Three modes are supported: DLQ, drop, and ignore error, which correspond to <code>DLQ</code> , <code>DROP</code> , and <code>IGNORE_ERROR</code> respectively
KafkaDeliveryParams	CkafkaDeliveryParams	No	If the DLQ mode is set, this option is required. Error messages will be delivered to the corresponding Kafka topic Note: this field may return null, indicating that no valid values can be obtained.

ESTargetParams

ES rule targets

Used by actions: CreateTarget.

Name	Type	Required	Description
NetMode	String	Yes	Network connection type
IndexPrefix	String	Yes	Index prefix
RotationInterval	String	Yes	ES log rotation interval
OutputMode	String	Yes	DTS event configuration
IndexSuffixMode	String	Yes	DTS indexing configuration
IndexTemplateType	String	No	ES template type

EtlFilter

Describes how to filter data

Used by actions: CheckTransformation, CreateTransformation, GetTransformation, UpdateTransformation.

Name	Type	Required	Description
Filter	String	Yes	The syntax is the same as that of <code>Rule</code>

EventBus

Event bus information

Used by actions: ListEventBuses.

Name	Type	Description
ModTime	Timestamp ISO8601	Update time
Description	String	Event bus description, which can contain up to 200 characters of any type
AddTime	Timestamp ISO8601	Creation time
EventBusName	String	Event bus name, which can contain 2–60 letters, digits, underscores, and hyphens and must start with a letter and end with a digit or letter
EventBusId	String	Event bus ID
Type	String	Event bus type
PayMode	String	Billing Mode Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ConnectionBriefs	Array of ConnectionBrief	Connector basic information Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
TargetBriefs	Array of TargetBrief	Target information Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

Extraction

Describes how to extract data

Used by actions: CheckTransformation, CreateTransformation, GetTransformation, UpdateTransformation.

Name	Type	Required	Description
ExtractionInputPath	String	Yes	JsonPath, which will be <code>\$.</code> by default if not specified
Format	String	Yes	Valid values: TEXT/JSON
TextParams	TextParams	No	Only required for <code>Text</code> Note: this field may return null, indicating that no valid values can be obtained.

Filter

Key-Value pair filter for conditional filtering queries, such as filtering ID, name, and status

- If more than one filter exists, the logical relationship between these filters is `AND`.
- If multiple values exist in one filter, the logical relationship between these values is `OR`.

Used by actions: ListEventBuses.

Name	Type	Required	Description
Values	Array of String	Yes	One or more filter values.
Name	String	Yes	Filter name.

LogFilter

Definition of filter parameters of log query-related API

Used by actions: DescribeLogTagValue, SearchLog.

Name	Type	Required	Description
Key	String	No	Field name
Operator	String	No	Operator. Values: <code>eq</code> (Equal to), <code>neq</code> (Not equal to), <code>like</code> , <code>not like</code> , <code>lt</code> (Smaller than), <code>lte</code> (Smaller than and equal to), <code>gt</code> (Greater than), <code>gte</code> (Greater than and equal to), <code>range</code> (Within the range) and <code>norange</code> (Not in the range).

Value	String	No	Filter value. Two values should be entered for range operation, separated by a comma (,).
Type	String	No	The logical relationship between conditions. Values: <code>AND</code> and <code>OR</code> .
Filters	Array of LogFilters	No	LogFilters array

LogFilters

Log filters

Used by actions: DescribeLogTagValue, SearchLog.

Name	Type	Required	Description
Key	String	Yes	Field name
Operator	String	Yes	Operator. Values: <code>eq</code> (Equal to), <code>neq</code> (Not equal to), <code>like</code> , <code>not like</code> , <code>lt</code> (Smaller than), <code>lte</code> (Smaller than and equal to), <code>gt</code> (Greater than), <code>gte</code> (Greater than and equal to), <code>range</code> (Within the range) and <code>norange</code> (Not in the range).
Value	String	Yes	Filter value. Two values should be entered for range operation, separated by a comma (,)

OutputStructParam

`Transform` output parameter

Used by actions: CheckTransformation, CreateTransformation, GetTransformation, UpdateTransformation.

Name	Type	Required	Description
Key	String	Yes	Key in the corresponding JSON output
Value	String	Yes	You can enter a JsonPath, constant, or built-in date type
ValueType	String	Yes	Data type of <code>Value</code> . Valid values: STRING, NUMBER, BOOLEAN, NULL, SYS_VARIABLE, JSONPATH

RetryPolicy

Description of CKafka delivery target retry policy

Used by actions: CreateTarget.

Name	Type	Required	Description
RetryInterval	Integer	Yes	Retry interval in seconds
MaxRetryAttempts	Integer	Yes	Maximum number of retries

Rule

Rule information

Used by actions: ListRules.

Name	Type	Description
Status	String	Status
ModTime	Timestamp ISO8601	Modification time
Enable	Boolean	Switch
Description	String	Description
RuleId	String	Rule ID
AddTime	Timestamp ISO8601	Creation time
EventBusId	String	Event bus ID
RuleName	String	Rule name
Targets	Array of TargetBrief	Target overview Note: this field may return null, indicating that no valid values can be obtained.
DeadLetterConfig	DeadLetterConfig	DLQ rule set by the rule, which may be null Note: this field may return null, indicating that no valid values can be obtained.

SCFPParams

SCF parameter

Used by actions: CreateTarget.

Name	Type	Required	Description
BatchTimeout	Integer	No	Maximum waiting time for batch delivery
BatchEventCount	Integer	No	Maximum number of events in batch delivery
EnableBatchDelivery	Boolean	No	Enables batch delivery

SearchLogResult

Retails of returned logs

Used by actions: SearchLog.

Name	Type	Description
Timestamp	String	Log reported time Note: This field may return-null, indicating that no valid values can be obtained.
Message	String	Log details Note: This field may return-null, indicating that no valid values can be obtained.
Source	String	Event source Note: This field may return-null, indicating that no valid values can be obtained.
Type	String	The event type. Note: This field may return-null, indicating that no valid values can be obtained.
RuleIds	String	Event matching rule Note: This field may return-null, indicating that no valid values can be obtained.
Subject	String	The instance ID. Note: This field may return null, indicating that no valid values can be obtained.
Region	String	The region. Note: This field may return-null, indicating that no valid values can be obtained.
Status	String	Event status Note: This field may return-null, indicating that no valid values can be obtained.

Target

Target information

Used by actions: ListTargets.

Name	Type	Description
Type	String	Target type
EventBusId	String	Event bus ID
TargetId	String	Target ID
TargetDescription	TargetDescription	Target description
RuleId	String	Event rule ID
EnableBatchDelivery	Boolean	Enables batch delivery Note: this field may return null, indicating that no valid values can be obtained.
BatchTimeout	Integer	Maximum waiting time for batch delivery Note: this field may return null, indicating that no valid values can be obtained.
BatchEventCount	Integer	Maximum number of events in batch delivery Note: this field may return null, indicating that no valid values can be obtained.

TargetBrief

Target overview

Used by actions: ListEventBuses, ListRules.

Name	Type	Description
TargetId	String	Target ID
Type	String	Target type

TargetDescription

Target description

Used by actions: CreateTarget, ListTargets.

Name	Type	Required	Description
ResourceDescription	String	Yes	Six-Segment QCS resource description. For more information, see Resource Description Method
SCFParams	SCFParams	No	SCF parameter
CkafkaTargetParams	CkafkaTargetParams	No	CKafka parameters
ESTargetParams	ESTargetParams	No	ElasticSearch parameters

TextParams

Describes how to slice data

Used by actions: CheckTransformation, CreateTransformation, GetTransformation, UpdateTransformation.

Name	Type	Required	Description
Separator	String	No	Comma, , tab, space, line break, %, or #, which can contain only 1 character. Note: this field may return null, indicating that no valid values can be obtained.
Regex	String	No	Entered regex (128 characters) Note: this field may return null, indicating that no valid values can be obtained.

Transform

Describes how to transform data

Used by actions: CheckTransformation, CreateTransformation, GetTransformation, UpdateTransformation.

Name	Type	Required	Description
OutputStructs	Array of OutputStructParam	Yes	Describes how to transform data

Transformation

Transformer

Used by actions: CheckTransformation, CreateTransformation, GetTransformation, UpdateTransformation.

Name	Type	Required	Description
Extraction	Extraction	No	Describes how to extract data Note: this field may return null, indicating that no valid values can be obtained.
EtlFilter	EtlFilter	No	Describes how to filter data Note: this field may return null, indicating that no valid values can be obtained.
Transform	Transform	No	Describes how to transform data Note: this field may return null, indicating that no valid values can be obtained.

Error Codes

Last updated : 2023-12-01 16:50:06

Feature Description

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

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

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

Error Code List

Common Error Codes

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

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

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

Service Error Codes

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation.AddPrivateLink	Failed to add the private link
FailedOperation.AuthenticateUserFailed	User authentication failed
FailedOperation.CreateTrigger	Failed to create the delivery target. Please check the function status.
FailedOperation.DeleteConnection	Failed to delete the connector. Please check the resource status.
FailedOperation.DeletePrivateLink	Failed to delete the private link
FailedOperation.DeleteRule	Failed to delete the rule. Please make sure the resource exists, and the status is normal.
FailedOperation.ESInternalError	ES cluster internal error

FailedOperation.ESRequestFailed	ES cluster operation failure
FailedOperation.ESTemplateConflict	ES indexing template conflict
FailedOperation.ErrorFilter	The rule does not match with the event. Please modify and try again.
FailedOperation.RegisterCLSService	Failed to register the CLS service.
FailedOperation.ServiceError	ServiceError: operation failed. Please check the resource information.
FailedOperation.TagResource	Failed to bind the tag
FailedOperation.TagResourceAllocateQuotas	Failed to apply for more tag quota
FailedOperation.UnTagResource	Failed to unbind the tag
FailedOperation.UpdateConnection	Failed to update the connector. Please make sure the resource exists, and the status is normal.
FailedOperation.UpdateRule	Failed to update the rule. Please make sure the resource exists, and the status is normal.
InternalError.OssException	An error occurred while processing the service. Please try again later. If the problem persists, please contact the smart customer service or submit a ticket.
InternalError.System	Service error. Please try again. If the problem persists, please submit a ticket.
InternalError.UnknownInternalError	
InvalidParameter.EnableAPIGateway	APIGateway cannot be enabled or disabled. Please check and try again.
InvalidParameter.Payload	<code>Payload</code> does not conform to the specification. Please fix it and try again.
InvalidParameterValue.AMPParams	The <code>AMPParams</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Action	The <code>Action</code> value is invalid.
InvalidParameterValue.BatchEventCount	The <code>BatchEventCount</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.BatchTimeout	The <code>BatchTimeout</code> value does not conform to the

	specification. Please fix it and try again.
InvalidParameterValue.CKafkaTargetParams	The CKafka parameter is invalid. Please check and try again.
InvalidParameterValue.CallbackType	The <code>CallbackType</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.CallbackWeComURL	The <code>CallbackWeComURL</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.ConnectionDescription	The <code>ConnectionDescription</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.ConnectionId	The <code>ConnectionId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.ConnectionName	The value of <code>ConnectionName</code> is invalid. Please check and try again.
InvalidParameterValue.DTSParams	The value of <code>AMPParams</code> is invalid. Please check and try again.
InvalidParameterValue.DeadLetterConfig	The dead letter queue parameter is invalid. Please check and try again.
InvalidParameterValue.Description	The <code>Description</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.ElasticSearchTargetParams	ES target parameter error
InvalidParameterValue.EventBusId	The <code>EventBusId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventBusName	The value of <code>EventBusName</code> is invalid. Please check and try again.
InvalidParameterValue.EventPattern	The <code>EventPattern</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.EventTraceConfig	The linkage tracing parameter is invalid. Please check and try again.
InvalidParameterValue.Filters	The <code>Filters</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.InvalidApiRequestConfig	The value of <code>InvalidApiRequestConfig</code> is invalid. Please check and try again.

InvalidParameterValue.InvalidFilterRule	Invalid event mode format. Please check and try again.
InvalidParameterValue.InvalidPattern	Invalid matching rules. Please check and try again.
InvalidParameterValue.Limit	The <code>Limit</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.LinkMode	The value of <code>LinkMode</code> is invalid. Please check and try again.
InvalidParameterValue.NoticeReceiverChannel	The <code>NoticeReceiverChannel</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverTimeWindow	The <code>NoticeReceiverTimeWindow</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverUserIds	The <code>NoticeReceiverUserIds</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.NoticeReceiverUserType	The <code>NoticeReceiverUserType</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Offset	The <code>Offset</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Order	The <code>Order</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.OrderBy	The <code>OrderBy</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Qualifier	The <code>Qualifier</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleId	The <code>RuleId</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.RuleName	The <code>RuleName</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.Tags	Incorrect tag parameter
InvalidParameterValue.TargetDescription	The <code>TargetDescription</code> value does not conform to the specification. Please fix it and try again.
InvalidParameterValue.TargetId	The <code>TargetId</code> value does not conform to the specification. Please fix it and try again.

InvalidParameterValue.TransformationID	The data transformation parameter is invalid. Please check and try again.
InvalidParameterValue.Transformations	Failed to create the data transformation task: The parameter is invalid. Please check and try again.
InvalidParameterValue.Type	The <code>Type</code> value does not conform to the specification. Please fix it and try again.
LimitExceeded.ClusterPrivateLinkExceeded	Reached the upper limit of cluster private links
LimitExceeded.Connection	The number of <code>Connection</code> reaches the upper limit. You can submit a ticket to increase it.
LimitExceeded.EventBus	The number of <code>EventBus</code> reaches the upper limit. You can submit a ticket to increase it.
LimitExceeded.InsufficientBalance	Failed to create the resource: Insufficient balance. Please check and try again.
LimitExceeded.Logset	The <code>Logset</code> quantity has reached the upper limit. You can submit a ticket to increase it.
LimitExceeded.RouteOverLimit	The number of <code>RouteOverLimit</code> reaches the upper limit. Submit a ticket to increase it.
LimitExceeded.Rule	The <code>Rule</code> quantity has reached the upper limit. You can submit a ticket to increase it.
LimitExceeded.Target	The <code>Target</code> quantity has reached the upper limit. You can submit a ticket to increase it.
LimitExceeded.Trigger	Failed to create the delivery target, as the number of function triggers has reached the limit. You can submit a ticket to increase it.
LimitExceeded.UserPrivateLinkExceeded	Reached the upper limit of private links for the user
OperationDenied.AccountNotExists	Failed to create the delivery target, as it was detected that the current account did not exist. Please check your account status.
OperationDenied.DefaultCLSResourceUnsupported	You cannot create a CLS event target based on the default EventBridge logset in the custom event bus.
OperationDenied.ESVersionUnsupported	The current ES version is not supported.
OperationDenied.EventBusResourceIsLocked	Due to service upgrade, this resource is locked. It may

	last for about 3-5 minutes. Event pushing is not affected.
OperationDenied.ResourceImmutable	The operation failed, as the resource could not be modified or deleted.
OperationDenied.UnsupportedOperation	The current user account type does not support this operation. Please submit a ticket.
ResourceInUse.DefaultEventBus	The default Tencent Cloud service event bus cannot be created repeatedly in the same region.
ResourceInUse.EventBus	Failed to delete the event bus. Please first delete all rules, connectors and archives of it.
ResourceInUse.Rule	There are targets under the rule, so it cannot be deleted. Please delete all targets and try again.
ResourceNotFound.Connection	The specified <code>Connection</code> was not found. Please create it and try again.
ResourceNotFound.EventBus	The specified event bus was not found. Please create it and try again.
ResourceNotFound.Function	The specified <code>Function</code> was not found. Please create it and try again.
ResourceNotFound.InvalidApi	Failed to delete the connector, as the specified API was not found.
ResourceNotFound.InvalidService	The connector operation failed, as the specified API Gateway service was not found.
ResourceNotFound.Namespace	Failed to create the delivery target, as the specified namespace was not found. Please create it and try again.
ResourceNotFound.NetAssociation	The network resource association is not found.
ResourceNotFound.PrivateLinkResource	The privatelink is not found.
ResourceNotFound.Role	The specified service role was not found. Please create it and try again.
ResourceNotFound.Rule	The specified <code>Rule</code> was not found. Please create it and try again.
ResourceNotFound.Tag	The specified tag is not found.

ResourceNotFound.Target	The specified <code>Target</code> was not found. Please create it and try again.
ResourceNotFound.Transformation	The specified task is not found. Please check and try again.
ResourceNotFound.Version	Failed to create the delivery target, as the specified service version was not found. Please create it and try again.
ResourceUnavailable.Connection	Failed to create the connector: The current resource is unavailable.
ResourceUnavailable.ESUnhealth	ES cluster status error
ResourceUnavailable.Target	Failed to create the delivery target, as the current resource was unavailable.
UnauthorizedOperation.CAM	The current account does not have permissions to use EB. Please log in to the CAM console for authorization.
UnsupportedOperation.InvalidAction	The connector operation failed, as the API did not support the current operation.
UnsupportedOperation.InvalidEndpointType	Failed to create the connector: The current backend service type is not supported.