

游戏数据库 TcaplusDB

API 文档

产品文档



腾讯云

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API 文档

History

最近更新时间：2023-09-19 17:36:46

Release 12

Release time: 2023-09-19 17:33:05

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ImportSnapshots](#)
 - New output parameters:ApplicationId

Release 11

Release time: 2023-05-04 10:29:04

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteBackupRecords](#)
- [DescribeBackupRecords](#)
- [SetBackupExpireRule](#)

New data structures:

- [BackupExpireRuleInfo](#)
- [BackupRecords](#)

Release 10

Release time: 2023-03-29 17:08:43

Release updates:

Improvement to existing documentation.

Modified data structures:

- [ClusterInfo](#)
 - New members:RestProxyStatus
- [ProxyDetailInfo](#)
 - New members:Version
- [ServerDetailInfo](#)
 - New members:Version
- [TableGroupInfo](#)
 - New members:TxbBackupExpireDay, EnableMysql, MysqlConnIp, MysqlConnPort

Release 9

Release time: 2023-02-07 10:58:33

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeSnapshots](#)
 - New input parameters:SelectedTables

Release 8

Release time: 2022-09-16 15:37:09

Release updates:

Improvement to existing documentation.

New data structures:

- [SyncTableField](#)
- [SyncTableInfo](#)

Modified data structures:

- [TableInfoNew](#)

- New members:SyncTableInfo

Release 7

Release time: 2022-04-20 15:07:40

Release updates:

Improvement to existing documentation.

Deleted APIs:

- DescribeApplications

Deleted data structures:

- Application

Modified data structures:

- [ClusterInfo](#)
 - New members:TxhBackupExpireDay, UlogBackupExpireDay, IsReadOnlyUlogBackupExpireDay
- [TableInfoNew](#)
 - New members:TxhBackupExpireDay

Release 6

Release time: 2021-10-13 10:43:01

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteTableDataFlow](#)
- [SetTableDataFlow](#)

Modified APIs:

- [CreateCluster](#)
 - New input parameters:AuthType

New data structures:

- [KafkaInfo](#)

Modified data structures:

- [ClusterInfo](#)
 - New members:DataFlowStatus, KafkaInfo
- [ProxyMachineInfo](#)
 - New members:AvailableCount
- [SelectedTableWithField](#)
 - New members:KafkaInfo

Release 5

Release time: 2021-06-04 17:30:35

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeApplications
- [MergeTablesData](#)
- [ModifyCensorship](#)
- [UpdateApply](#)

Modified APIs:

- [CreateBackup](#)
 - New output parameters:ApplicationIds

New data structures:

- Application
- [ApplyResult](#)
- [ApplyStatus](#)
- [CompareTablesInfo](#)
- [MergeTableResult](#)
- [MergeTablesInfo](#)

Modified data structures:

- [ClusterInfo](#)
 - New members: Censorship, DbuUins
- [Filter](#)
 - New members: Values
 - **Modified members:** Value
- [TableResultNew](#)
 - New members: ApplicationId

Release 4

Release time: 2021-04-23 17:15:01

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateSnapshots](#)
- [DeleteSnapshots](#)
- [DescribeSnapshots](#)
- [ImportSnapshots](#)
- [ModifySnapshots](#)

New data structures:

- [KeyFile](#)
- [SnapshotInfo](#)
- [SnapshotInfoNew](#)
- [SnapshotResult](#)

Release 3

Release time: 2021-02-19 17:52:55

Release updates:

Improvement to existing documentation.

New APIs:

- [DisableRestProxy](#)
- [EnableRestProxy](#)

Release 2

Release time: 2021-01-07 20:01:26

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteTableIndex](#)
- [DescribeMachine](#)
- [ModifyClusterMachine](#)
- [SetTableIndex](#)

Modified APIs:

- [CreateCluster](#)
 - New input parameters:ServerList, ProxyList, ClusterType

New data structures:

- [FieldInfo](#)
- [MachineInfo](#)
- [PoolInfo](#)
- [ProxyDetailInfo](#)
- [ProxyMachineInfo](#)
- [SelectedTableWithField](#)
- [ServerDetailInfo](#)
- [ServerMachineInfo](#)

Modified data structures:

- [ClusterInfo](#)
 - New members:ClusterType, ClusterStatus, ReadCapacityUnit, WriteCapacityUnit, DiskVolume, ServerList, ProxyList

Existing Release

Release time: 2020-07-24 14:28:18

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [ClearTables](#)
- [CompareIdlFiles](#)
- [CreateBackup](#)
- [CreateCluster](#)
- [CreateTableGroup](#)
- [CreateTables](#)
- [DeleteCluster](#)
- [DeleteIdlFiles](#)
- [DeleteTableGroup](#)
- [DeleteTables](#)
- [DescribeClusterTags](#)
- [DescribeClusters](#)
- [DescribeIdlFileInfos](#)
- [DescribeRegions](#)
- [DescribeTableGroupTags](#)
- [DescribeTableGroups](#)
- [DescribeTableTags](#)
- [DescribeTables](#)
- [DescribeTablesInRecycle](#)
- [DescribeTasks](#)
- [DescribeUinInWhitelist](#)
- [ModifyClusterName](#)
- [ModifyClusterPassword](#)
- [ModifyClusterTags](#)
- [ModifyTableGroupName](#)
- [ModifyTableGroupTags](#)
- [ModifyTableMemos](#)
- [ModifyTableQuotas](#)
- [ModifyTableTags](#)
- [ModifyTables](#)

- [RecoverRecycleTables](#)
- [RollbackTables](#)
- [VerifyIdlFiles](#)

Existing data structures:

- [ClusterInfo](#)
- [ErrorInfo](#)
- [Filter](#)
- [IdlFileInfo](#)
- [IdlFileInfoWithoutContent](#)
- [ParsedTableInfoNew](#)
- [RegionInfo](#)
- [SelectedTableInfoNew](#)
- [TableGroupInfo](#)
- [TableInfoNew](#)
- [TableResultNew](#)
- [TableRollbackResultNew](#)
- [TagInfoUnit](#)
- [TagsInfoOfCluster](#)
- [TagsInfoOfTable](#)
- [TagsInfoOfTableGroup](#)
- [TaskInfoNew](#)

Introduction

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TencentDB for TcaplusDB is a fully managed DB service developed by Tencent. It has been proven by most of Tencent's game business to deliver unlimited QPS, low-latency read/write performance, and 7x24 expert support. It also features imperceptible upgrade and scaling with an industry-leading high availability, allowing you to handle PCU growth of up to 1 million in one hour.

API Category

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Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeRegions	Queries region list	20
DescribeTasks	Queries task list	20
DescribeUinInWhitelist	Queries whether the current user is in the allowlist	20
DisableRestProxy	Disables the RESTful API	20
EnableRestProxy	Enables the RESTful API	20

Table Group APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateTableGroup	Creates table group	20
DeleteTableGroup	Deletes table group	20
DescribeTableGroupTags	Gets the associated tag list of a table group	20
DescribeTableGroups	Queries table group list	20
ModifyTableGroupName	Renames TcaplusDB table group	20
ModifyTableGroupTags	Modifies table group tags	20

Table APIs

--	--	--

API Name	Feature	Frequency Limit (maximum requests per second)
ClearTables	Clears table data	20
CompareIdlFiles	Uploads and verifies table modification file	20
CreateBackup	Creates backup	20
CreateSnapshots	Creates table snapshots	20
CreateTables	Creates tables in batches	20
DeleteBackupRecords	Deletes a manual backup	20
DeleteSnapshots	Deletes table snapshots	20
DeleteTableDataFlow	Disables data subscription for tables	20
DeleteTableIndex	Deletes the global index from a table	20
DeleteTables	Drops table	20
DescribeIdlFileInfos	Queries table description file details	20
DescribeSnapshots	Queries the list of snapshots	20
DescribeTableTags	Gets table tags	20
DescribeTables	Queries table details	20
DescribeTablesInRecycle	Queries the details of table in recycle bin	20
ImportSnapshots	Imports a snapshot	20
MergeTablesData	Merges tables	20
ModifySnapshots	Modifies table snapshots	20
ModifyTableMemos	Modifies table remarks	20
ModifyTableQuotas	Scales table	20
ModifyTableTags	Modifies table tags	20
ModifyTables	Modifies table structure in batches	20
RecoverRecycleTables	Recovers table from recycle bin	20
RollbackTables	Rolls back table data	20

SetBackupExpireRule	Adds/deletes/modifies backup expiration policy	20
SetTableDataFlow	Enables data subscription for tables or modifies the feature's configurations	20
SetTableIndex	Creates a global index for a table	20
UpdateApply	Updates the application status	20
VerifyIdlFiles	Uploads and verifies table creation file	20

Cluster APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateCluster	Creates cluster	20
DeleteCluster	Deletes cluster	20
DeleteIdlFiles	Deletes IDL description file	20
DescribeBackupRecords	Queries backup records	20
DescribeClusterTags	Gets the associated tag list of a cluster	20
DescribeClusters	Queries cluster information list	20
DescribeMachine	Queries the available machines in a dedicated cluster	20
ModifyCensorship	Enables or disables the cluster operation approval feature	20
ModifyClusterMachine	Modifies the machines of a dedicated cluster	20
ModifyClusterName	Renames cluster	20
ModifyClusterPassword	Changes cluster password	20
ModifyClusterTags	Modifies cluster tags	20

Making API Requests

Request Structure

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1. Service Address

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

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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

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

Common parameters for Signature Algorithm v3

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

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter <code>Action</code> in the input parameters in r documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data y work with belongs. For values supported for an API, see the description c parameter <code>Region</code> in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relatec documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request for example, 1529223702. Note: If the difference between the UNIX times server time is greater than 5 minutes, a signature expiration error may oc
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the c parameter <code>Version</code> in the API documentation. For example, the versi 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ 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 UTC time, and this value must match the value of X-TC-Timestamp (a co

			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencent refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication information type and host are the required headers; - Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a temporary key to obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

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

Example of an HTTP GET request structure:

```

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

Authorization: TC3-HMAC-SHA256 Credential=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
```

Region List

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

Region	Value
North China (Beijing)	ap-beijing
South China (Guangzhou)	ap-guangzhou
Hong Kong/Macao/Taiwan (Hong Kong, China)	ap-hongkong
Northeast Asia Pacific (Seoul)	ap-seoul
East China (Shanghai)	ap-shanghai
Southeast Asia Pacific (Singapore)	ap-singapore
Northeast Asia Pacific (Tokyo)	ap-tokyo
Europe (Frankfurt)	eu-frankfurt
Eastern U.S. (Virginia)	na-ashburn
Western U.S. (Silicon Valley)	na-siliconvalley
South America (Saopaulo)	sa-saopaulo

Signature v3

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

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

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

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

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

POST

/

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

host:cvm.tencentcloudapi.com

content-type;host

`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in request header, which is the UNIX timestamp of the current time in seconds, such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; <code>service</code> is the product name, which should 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., Gu5t9xGARNpq86cd98joQYCN3***** .
Date	The Date field information in Credential , such as 2019-02-25 in this example.
Service	Value in the Service field in Credential , such as cvm in this example.

2) Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

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

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
```

```
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

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

5. Signature Demo

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

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

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

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

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

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

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

Java

```

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

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

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

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

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

        // ***** Step 1: Concatenate the CanonicalRequest string *****
        String httpRequestMethod = "POST";
    }
}

```



```

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

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

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

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

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

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

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

```

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

```

Python

```

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

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

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcnowfromtimestamp(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:". $hos
t."\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$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*****';

```

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> requestParams, string requestMethod, string requestHost, string requestPath)
{
string retStr = "";
retStr += requestMethod;
retStr += requestHost;
retStr += requestPath;
retStr += "?";
string v = "";
foreach (string key in requestParams.Keys)
{
v += string.Format("{0}={1}&", key, requestParams[key]);
}
retStr += v.TrimEnd('&');
return retStr;
}
public static void Main(string[] args)
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
double RequestTimestamp = 1465185768;
```

```

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

NodeJS

```

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

```

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

```

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

Responses

最近更新时间：2020-03-11 18:12:24

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.

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

Table APIs

SetBackupExpireRule

最近更新时间：2023-09-19 17:36:47

1. API Description

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

This API is used to add/delete/modify backup expiration policy. `ClusterId` must be a specific cluster ID (appid).

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: SetBackupExpireRule.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where the tables reside
BackupExpireRules.N	Yes	Array of BackupExpireRuleInfo	Array of retention policies

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	<code>TaskId</code> is in the format of <code>AppInstanceId-taskId</code> , which is used to identify tasks of different clusters. 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 Adding/deleting/modifying backup expiration policy

This example shows you how to add/delete/modify backup expiration policy

Input Example

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

{
  "ClusterId": "xx",
  "BackupExpireRules": [
    {
      "ExpireDay": 1,
      "OperType": 1,
      "TableGroupId": "xx",
      "TableName": "xx",
      "FileTag": 1
    }
  ]
}
```

Output Example

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

```
"RequestId": "xx",  
"TaskId": "xx"  
}  
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.

MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

DeleteBackupRecords

最近更新时间：2023-09-19 17:36:51

1. API Description

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

This API is used to delete a manual backup.

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: DeleteBackupRecords.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID of the backup records to be deleted
BackupRecords.N	Yes	Array of BackupRecords	Details of the backup records to be deleted

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TaskId	String	<code>TaskId</code> is in the format of <code>AppInstanceId-taskId</code> , which is used to identify tasks of different clusters. 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 Deleting backup records

This API is used to delete backup records.

Input Example

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

{
  "ClusterId": "xx",
  "BackupRecords": [
    {
      "BackupBatchTime": "xx",
      "AppId": 1,
      "TableName": "xx",
      "ZoneId": 1,
      "BackupType": "xx",
      "FileTag": "xx",
      "ShardCount": 1,
      "BackupExpireTime": "xx",
      "BackupSuccRate": "xx",
      "BackupFileSize": 1
    }
  ]
}
```

Output Example


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

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.

MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

VerifyIdlFiles

最近更新时间：2023-09-19 17:36:47

1. API Description

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

This API is used to upload and verify a table creation file and return the definition of tables that are verified to be valid.

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: VerifyIdlFiles.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where to create a table
TableGroupId	No	String	ID of the table group where to create a table
ExistingIdlFiles.N	No	Array of IdlFileInfo	List of information of uploaded IDL files. Either this parameter or <code>NewIdlFiles</code> must be present
NewIdlFiles.N	No	Array of IdlFileInfo	List of information of IDL files to be uploaded. Either this parameter or <code>ExistingIdlFiles</code> must be present

3. Output Parameters

Parameter Name	Type	Description
IdlFiles	Array of IdlFileInfo	Information list of all IDL files uploaded and verified in this request
TotalCount	Integer	Number of valid tables parsed by reading IDL description file, excluding tables already created
TableInfos	Array of ParsedTableInfoNew	List of valid tables parsed by reading IDL description file, excluding tables already created
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Verifying the table creation file

This example shows you how to select an uploaded table creation IDL file and verify it.

Input Example

```

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

{
  "ExistingIdlFiles": [
    {
      "FileExtType": "proto",
      "FileType": "PROTO",
      "FileName": "tb_example",
      "FileSize": 0,
      "FileContent": "xx",
      "FileId": 0
    }
  ],
  "TableGroupId": "101",
  "NewIdlFiles": [
    {

```

```

"FileExtType": "xx",
"FileType": "xx",
"FileName": "xx",
"FileSize": 0,
"FileContent": "xx",
"FileId": 0
}
],
"ClusterId": "5674209986"
}
    
```

Output Example

```

{
  "Response": {
    "IdlFiles": [
      {
        "FileContent": null,
        "FileExtType": "proto",
        "FileId": 564,
        "FileName": "tb_example",
        "FileSize": 261,
        "FileType": "PROTO"
      }
    ],
    "RequestId": "70707604-2031-4c7e-a85f-a52daf354eb0",
    "TableInfos": [
      {
        "Error": null,
        "IndexKeySet": "{\\"Num\\":0}",
        "KeyFields": "{\\"KeyField\\":[{\\"Label\\":\\"required\\",\\"Name\\":\\"uin\\",\\"Type\\":\\"int64\\"},{\\"Crypto\\":false,\\"Label\\":\\"required\\",\\"Name\\":\\"name\\",\\"Type\\":\\"string\\"}],\\"Num\\":2}",
        "TableGroupId": null,
        "OldKeyFields": null,
        "OldValueFields": null,
        "ShardingKeySet": "",
        "SumKeyFieldSize": 1022,
        "SumValueFieldSize": 262144,
        "TableIdlType": "PROTO",
        "TableInstanceId": null,
        "TableName": "tb_example",
        "TableType": "GENERIC",
        "TdrVersion": 1,
        "ListElementNum": null,
        "SortFieldNum": null,
    
```

```

"SortRule": null,
"ValueFields": "{ \"Num\":2, \"ValueField\": [{ \"Label\": \"required\", \"Name\": \"game
esvrid\", \"Type\": \"int32\" }, { \"Crypto\": false, \"Label\": \"optional\", \"Name
\": \"logintime\", \"Type\": \"string\" } ] }"
}
],
"TotalCount": 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.

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.

MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

RollbackTables

最近更新时间：2023-09-19 17:36:48

1. API Description

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

This API is used to roll back table data.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: RollbackTables.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where the table to be rolled back resides
SelectedTables.N	Yes	Array of SelectedTableInfoNew	List of tables to be rolled back
RollbackTime	Yes	Timestamp	Time to roll back to
Mode	No	String	Rollback mode. <code>KEYS</code> is supported

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of table rollback task results
TableResults	Array of TableRollbackResultNew	Table rollback task result list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Rolling back a table by the primary key

This example shows you how to roll back a table by the primary key.

Input Example

```

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

{
  "RollbackTime": "2019-08-29 10:00:00",
  "ClusterId": "5674209986",
  "Mode": "xx",
  "SelectedTables": [
    {
      "TableIdlType": "PROTO",
      "TableGroupId": "101",
      "FileExtType": "txt",
      "TableInstanceId": "tcaplus-1f224454",
      "Memo": "xx",
      "TableName": "tb_example",
      "ReservedReadQps": 0,
      "ListElementNum": 0,
      "ReservedVolume": 0,
      "ReservedWriteQps": 0,
      "FileSize": 0,
    }
  ]
}
    
```

```

"FileContent": "uin%20name%0A1%20calvin%0A2%20jacob%0A3%20matthew%0A%0A",
"FileName": "tb_example_key1",
"TableType": "xx"
}
]
}
    
```

Output Example

```

{
  "Response": {
    "RequestId": "128a5622-0de1-41ed-9850-483944f11370",
    "TableResults": [
      {
        "Error": null,
        "FileId": "604",
        "TableGroupId": "101",
        "SuccKeyNum": 3,
        "TableIdlType": "PROTO",
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": null,
        "TaskId": "5674209986-1212",
        "TaskIds": null,
        "TotalKeyNum": 3
      }
    ],
    "TotalCount": 1
  }
}
    
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.

RecoverRecycleTables

最近更新时间：2023-09-19 17:36:48

1. API Description

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

This API is used to recover a dropped table from the recycle bin. It will not work for tables to be released due to arrears.

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: RecoverRecycleTables.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where a table resides
SelectedTables.N	Yes	Array of SelectedTableInfoNew	Information of tables to be recovered

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of recovered tables
TableResults	Array of TableResultNew	List of information of recovered tables
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Recovering a table in the recycle bin

This example shows you how to recover a table in the recycle bin based on the specified table information.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=RecoverRecycleTables
&ClusterId=5674209986
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "f19ec9d8-ecd6-41f2-9da1-712dfdbe9ef7",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
        "TableIdlType": null,
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": null,
        "TaskId": "5674209986-1198",
        "TaskIds": null
      }
    ],
    "TotalCount": 1
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

ModifyTables

最近更新时间：2023-09-19 17:36:48

1. API Description

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

This API is used to modify specified tables in batches based on the selected table definition IDL file.

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: ModifyTables.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where the table to be modified resides
IdlFiles.N	Yes	Array of IdlFileInfo	Selected table modification IDL files
SelectedTables.N	Yes	Array of SelectedTableInfoNew	List of tables to be modified

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of modified tables
TableResults	Array of TableResultNew	List of table modification results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the table structure

This example shows you how to modify the table structure.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=ModifyTables
&ClusterId=5674209986
&IdlFiles.0.FileName=tb_example_modify
&IdlFiles.0.FileType=PROTO
&IdlFiles.0.FileExtType=proto
&IdlFiles.0.FileSize=292
&IdlFiles.0.FileId=600
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&SelectedTables.0.TableIdlType=PROTO
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "007a279d-fd19-452c-842e-46a804e8564b",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
```



```
"TableIdlType": "PROTO",
"TableInstanceId": "tcaplus-1f224454",
"TableName": "tb_example",
"TableType": "GENERIC",
"TaskId": "5674209986-1200",
"TaskIds": null
}
],
"TotalCount": 1
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.

InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
ResourceNotFound	The resource does not exist.

ModifyTableQuotas

最近更新时间：2023-09-19 17:36:48

1. API Description

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

This API is used to scale a table.

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: ModifyTableQuotas.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where the table to be scaled resides
TableQuotas.N	Yes	Array of SelectedTableInfoNew	List of quotas of tables selected for modification

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of scaled tables
TableResults	Array of TableResultNew	List of table scaling results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Scaling a table

This example shows you how to scale a table.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=ModifyTableQuotas
&ClusterId=5674209986
&TableQuotas.0.TableInstanceId=tcaplus-1f224454
&TableQuotas.0.TableGroupId=101
&TableQuotas.0.TableName=tb_example
&TableQuotas.0.TableIdlType=PROTO
&TableQuotas.0.ReservedVolume=2
&TableQuotas.0.ReservedReadQps=240
&TableQuotas.0.ReservedWriteQps=78
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "bb90baab-4189-4d01-9e92-250b57c571b3",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
        "TableIdlType": null,
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": null,
        "TaskId": null,

```

```

"TaskIds": [
  "5674209986-1201",
  "5674209986-1202"
]
},
],
"TotalCount": 1
}
}
    
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.

InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceInsufficient.BalanceError	Insufficient balance.
ResourceNotFound	The resource does not exist.

ModifyTableMemos

最近更新时间：2023-09-19 17:36:48

1. API Description

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

This API is used to modify table remarks.

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: ModifyTableMemos.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster instance where a table resides
TableMemos.N	Yes	Array of SelectedTableInfoNew	List of details of selected tables

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of tables modified for remarks
TableResults	Array of TableResultNew	List of table remarks modification results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying table remarks

This example shows you how to modify table remarks.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=ModifyTableMemos
&ClusterId=5674209986
&TableMemos.0.TableInstanceId=tcaplus-1f224454
&TableMemos.0.TableGroupId=101
&TableMemos.0.TableName=tb_example
&TableMemos.0.Memo=pbTest table1xx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "c3446e81-4d07-4a80-a07f-f34f94b598bc",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
        "TableIdlType": null,
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": "PROTO",
        "TaskId": null,
        "TaskIds": null
      }
    ],
  },
}
```



```
"TotalCount": 1
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

DescribeTablesInRecycle

最近更新时间：2023-09-19 17:36:49

1. API Description

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

This API is used to query the details of a table in recycle bin.

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: DescribeTablesInRecycle.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	No	String	ID of the cluster where the table to be queried resides
TableGroupIds.N	No	Array of String	List of IDs of the table groups where the table to be queried resides
Filters.N	No	Array of Filter	Filter. Valid values: TableName, TableInstanceId
Offset	No	Integer	Query result offset
Limit	No	Integer	Number of returned query results

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of tables
TableInfos	Array of TableInfoNew	Table details result list
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 tables in recycle bin

This example shows you how to query the list of tables in the recycle bin.

Input Example

```

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

{
  "TableGroupIds": [
    "xx"
  ],
  "ClusterId": "5674209986",
  "Limit": 0,
  "Filters": [
    {
      "Name": "xx",
      "Value": "xx"
    }
  ],
  "Offset": 0
}
    
```

Output Example

```
{
  "Response": {
    "RequestId": "5d7da70a-2aa6-4e61-9389-46a92770974c",
    "TableInfos": [
      {
        "ApiAccessId": "10",
        "ClusterName": "gz test App",
        "ClusterId": "5674209986",
        "CreatedTime": "2019-08-29 22:03:27",
        "Error": null,
        "IdlFiles": [
          {
            "FileContent": null,
            "FileExtType": "proto",
            "FileId": 551,
            "FileName": "tb_example",
            "FileSize": 266,
            "FileType": "PROTO"
          }
        ],
        "IndexStruct": null,
        "KeyStruct": null,
        "ListElementNum": 1,
        "TableGroupId": "101",
        "Memo": null,
        "ReservedReadQps": 80,
        "ReservedVolume": 1,
        "ReservedWriteQps": 26,
        "ShardingKeySet": "key",
        "Status": "RECYCLING",
        "TableIdlType": "PROTO",
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableSize": 48566336,
        "TableType": "GENERIC",
        "UpdatedTime": "",
        "ValueStruct": null,
        "SortFieldNum": null,
        "SortRule": null,
        "TableGroupName": "test_zone_1"
      }
    ],
    "TotalCount": 1
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

DescribeTables

最近更新时间：2023-09-19 17:36:49

1. API Description

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

This API is used to query table details.

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: DescribeTables.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	No	String	ID of the cluster where the table to be queried resides
TableGroupIds.N	No	Array of String	List of IDs of the table groups where the table to be queried resides
SelectedTables.N	No	Array of SelectedTableInfoNew	Information list of tables to be queried. If you need to filter the tables, use the <code>Filter</code> parameter.

Filters.N	No	Array of Filter	Filter. Valid values: TableName, TableInstanceId
Offset	No	Integer	Query result offset
Limit	No	Integer	Number of returned query results

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of tables
TableInfos	Array of TableInfoNew	Table details result list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the table list

This example shows you how to query the table list.

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=DescribeTables
&ClusterId=5674209986
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "TableInfos": [
      {
        "TableName": "abc",
        "TableInstanceId": "abc",
        "TableType": "abc",
        "TableIdlType": "abc",
```

```
"ClusterId": "abc",
"ClusterName": "abc",
"TableGroupId": "abc",
"TableGroupName": "abc",
"KeyStruct": "abc",
"ValueStruct": "abc",
"ShardingKeySet": "abc",
"IndexStruct": "abc",
"ListElementNum": 1,
"IdlFiles": [
{
"FileName": "abc",
"FileType": "abc",
"FileExtType": "abc",
"FileSize": 0,
"FileId": 0,
"FileContent": "abc"
}
],
"ReservedVolume": 0,
"ReservedReadQps": 0,
"ReservedWriteQps": 0,
"TableSize": 0,
"Status": "abc",
"CreatedTime": "abc",
"UpdatedTime": "abc",
"Memo": "abc",
"Error": {
"Code": "abc",
"Message": "abc"
},
"ApiAccessId": "abc",
"SortFieldNum": 0,
"SortRule": 0,
"DbClusterInfoStruct": "abc",
"TxhBackupExpireDay": 1,
"SyncTableInfo": {
"TargetTableSplitNum": 1,
"TargetTableNamePrefix": [
"abc"
],
"TargetSyncDBInstanceId": "abc",
"TargetDatabaseName": "abc",
"Status": 0,
"ClusterId": "abc",
"TableGroupId": 1,
"TableName": "abc",
```



```
"TableId": "abc",
"KeyFieldMapping": [
  {
    "SourceName": "abc",
    "TargetName": "abc"
  }
],
"ValueFieldMapping": [
  {
    "SourceName": "abc",
    "TargetName": "abc"
  }
]
},
"RequestId": "abc"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
FailedOperation.RegionMismatch	The requested region does not match.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

DescribeIdFileInfos

最近更新时间：2023-09-19 17:36:50

1. API Description

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

This API is used to query table description file details.

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: DescribeIdFileInfos.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where a file resides
TableGroupIds.N	No	Array of String	ID of the table group where a file resides
IdFileIds.N	No	Array of String	File ID list
Offset	No	Integer	Query list offset
Limit	No	Integer	Number of returned results in query list

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of files
IdlFileInfos	Array of IdlFileInfo	List of file details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying description file details

This example shows you how to query the description file list by specifying a cluster ID.

Input Example

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

{
  "TableGroupIds": [
    "xx"
  ],
  "ClusterId": "5674209986",
  "Limit": 0,
  "IdlFileIds": [
    "xx"
  ],
  "Offset": 0
}
```

Output Example

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

```
"IdlFileInfos": [  
  {  
    "FileContent": null,  
    "FileExtType": "proto",  
    "FileId": 600,  
    "FileName": "tb_example_modify",  
    "FileSize": 292,  
    "FileType": "PROTO"  
  },  
  {  
    "FileContent": null,  
    "FileExtType": "proto",  
    "FileId": 548,  
    "FileName": "tb_example",  
    "FileSize": 298,  
    "FileType": "PROTO"  
  },  
  {  
    "FileContent": null,  
    "FileExtType": "proto",  
    "FileId": 549,  
    "FileName": "tb_example",  
    "FileSize": 298,  
    "FileType": "PROTO"  
  },  
  {  
    "FileContent": null,  
    "FileExtType": "proto",  
    "FileId": 550,  
    "FileName": "tb_example",  
    "FileSize": 266,  
    "FileType": "PROTO"  
  },  
  {  
    "FileContent": null,  
    "FileExtType": "proto",  
    "FileId": 551,  
    "FileName": "tb_example",  
    "FileSize": 266,  
    "FileType": "PROTO"  
  },  
  {  
    "FileContent": null,  
    "FileExtType": "proto",  
    "FileId": 552,  
    "FileName": "tb_example",  
    "FileSize": 266,  
  }  
]
```

```
"FileType": "PROTO"
},
{
  "FileContent": null,
  "FileExtType": "proto",
  "FileId": 553,
  "FileName": "tb_example",
  "FileSize": 266,
  "FileType": "PROTO"
},
{
  "FileContent": null,
  "FileExtType": "proto",
  "FileId": 559,
  "FileName": "tb_example",
  "FileSize": 266,
  "FileType": "PROTO"
},
{
  "FileContent": null,
  "FileExtType": "proto",
  "FileId": 560,
  "FileName": "tb_example",
  "FileSize": 266,
  "FileType": "PROTO"
},
{
  "FileContent": null,
  "FileExtType": "proto",
  "FileId": 561,
  "FileName": "tb_example",
  "FileSize": 266,
  "FileType": "PROTO"
},
{
  "FileContent": null,
  "FileExtType": "proto",
  "FileId": 562,
  "FileName": "tb_example",
  "FileSize": 267,
  "FileType": "PROTO"
},
{
  "FileContent": null,
  "FileExtType": "proto",
  "FileId": 563,
  "FileName": "tb_example",
```

```

"FileSize": 380,
"FileType": "PROTO"
},
{
"FileContent": null,
"FileExtType": "proto",
"FileId": 564,
"FileName": "tb_example",
"FileSize": 266,
"FileType": "PROTO"
}
],
"RequestId": "1b6a5d3f-beb3-4380-9b6d-3d9f2d83654c",
"TotalCount": 13
}
}
    
```

Example2 Querying file details by specifying cluster ID and file ID

This example shows you how to query file details by specifying the cluster ID and file ID.

Input Example

```

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

{
  "TableGroupIds": [
    "xx"
  ],
  "ClusterId": "5674209986",
  "Limit": 0,
  "IdlFileIds": [
    "564"
  ],
  "Offset": 0
}
    
```

Output Example

```

{
  "Response": {
    "IdlFileInfos": [
    
```

```
{
  "FileContent": "syntax%3D%22proto%22%3Bpackage%20myTcaplusTable%3Bimport%20%22tcapluservice.optionv1.proto%22%3Bmessage%20tb_example%7Boption%28tcapluservice.tcaplus_primary_key%29%3D%22uin%2Cname%22%3Brequired%20int64%20uin%20%3D%201%3Brequired%20string%20name%20%3D%20%3Brequired%20int32%20gamesvrid%20%3D%20%3Boptional%20string%20logintime%20%3D%204%3B%7D",
  "FileExtType": "proto",
  "FileId": 564,
  "FileName": "tb_example",
  "FileSize": 266,
  "FileType": "PROTO"
},
  ],
  "RequestId": "5d592aa1-ee73-4b5e-90bf-062efcc05966",
  "TotalCount": 1
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

DeleteTables

最近更新时间：2023-09-19 17:36:50

1. API Description

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

This API is used to drop a specified table. Calling this API for the first time means to move the table to the recycle bin, while calling it again means to drop the table completely from the recycle bin.

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: DeleteTables.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where the table to be dropped resides
SelectedTables.N	Yes	Array of SelectedTableInfoNew	List of information of tables to be dropped

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of dropped tables
TableResults	Array of TableResultNew	List of details of dropped tables
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a table

This example shows you how to delete a table.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=DeleteTables
&ClusterId=5674209986
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "ebc273d5-d56c-4c54-ad19-9b5a25815eed",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
        "TableIdlType": null,
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": null,
        "TaskId": "5674209986-1180",
        "TaskIds": null
      }
    ]
  }
}
```

```
}  
],  
"TotalCount": 1  
}  
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.

ResourceNotFound

The resource does not exist.

Create Tables

最近更新时间：2023-09-19 17:36:51

1. API Description

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

This API is used to create tables in batches based on the selected IDL file list.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateTables.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where to create a table
IdlFiles.N	Yes	Array of IdlFileInfo	Table creation IDL file list selected by user
SelectedTables.N	Yes	Array of SelectedTableInfoNew	Information list of tables to be created
ResourceTags.N	No	Array of TagInfoUnit	Table tag list

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of tables created in batches
TableResults	Array of TableResultNew	List of tables created in batches
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating tables in batches

This example shows you how to create tables in batches.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=CreateTables
&ClusterId=22762983670
&IdlFiles.0.FileName=table_test_2_modify
&IdlFiles.0.FileSize=673
&IdlFiles.0.FileExtType=proto
&IdlFiles.0.FileId=46
&IdlFiles.0.FileType=PROTO
&SelectedTables.0.TableIdlType=PROTO
&SelectedTables.0.ReservedReadQps=80
&SelectedTables.0.ReservedWriteQps=26
&SelectedTables.0.ReservedVolume=1
&SelectedTables.0.TableGroupId=2
&SelectedTables.0.TableName=PLAYERONLINECNT
&SelectedTables.0.TableType=GENERIC
&SelectedTables.0.Memo=test
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
```

```

"TableResults": [
{
"TableIdlType": "TDR",
"TableInstanceId": "tcaplus-c6187008",
"TableName": "PLAYERONLINECNT",
"TableGroupId": "2",
"TaskId": "22762983670-144",
"TableType": "GENERIC"
},
],
"RequestId": "8cEcE3E8-2fE2-6d4b-5E34-Fdc01E35f2C6"
}
}
    
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.

FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInsufficient.BalanceError	Insufficient balance.
ResourceNotFound	The resource does not exist.

CompareIdlFiles

最近更新时间：2023-09-19 17:36:51

1. API Description

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

This API is used to select a target table, upload and verify the table modification file, and return the result of whether the table structure is allowed to be modified.

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: CompareIdlFiles.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where the table to be modified resides
SelectedTables.N	Yes	Array of SelectedTableInfoNew	List of tables to be modified
ExistingIdlFiles.N	No	Array of IdlFileInfo	Selected list of uploaded IDL files. Either this parameter or <code>NewIdlFiles</code> must be selected

NewIdlFiles.N	No	Array of IdlFileInfo	List of IDL files to be uploaded. Either this parameter or <code>ExistingIdlFiles</code> must be selected
---------------	----	--------------------------------------	---

3. Output Parameters

Parameter Name	Type	Description
IdlFiles	Array of IdlFileInfo	Information list of all IDL files uploaded and verified in this request
TotalCount	Integer	Number of tables verified to be valid in this request
TableInfos	Array of ParsedTableInfoNew	Verification result parsed from the selected table after the IDL description file is read
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Uploading and verifying a table structure modification file

This example shows you how to upload and verify a table structure modification file.

Input Example

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

{
  "ExistingIdlFiles": [
    {
      "FileExtType": "xx",
      "FileType": "xx",
      "FileName": "xx",
      "FileSize": 0,
      "FileContent": "xx",
      "FileId": 0
    }
  ]
}
```

```

],
"NewIdlFiles": [
{
"FileExtType": "proto",
"FileType": "PROTO",
"FileName": "tb_example_modify",
"FileSize": 0,
"FileContent": "syntax%3d%22proto%22%3bpackage+myTcaplusTable%3bimport+%22tcaplu
sservice.optionv1.proto%22%3bmessage+tb_example%7boption (tcapluservice.tcaplus_p
rimary_key)%3d%22uin%2cname%22%3brequired+int64+uin+%3d+1%3brequired+string+name
+%3d+%23brequired+int32+gamesvrid+%3d+%33boptional+string+logintime+%3d+4%3boptio
nal+int32+add_v1+%3d+5%3b%7d",
"FileId": 0
}
],
"ClusterId": "5674209986",
"SelectedTables": [
{
"TableIdlType": "PROTO",
"TableGroupId": "101",
"FileExtType": "xx",
"TableInstanceId": "tcaplus-1f224454",
"Memo": "xx",
"TableName": "tb_example",
"ReservedReadQps": 0,
"ListElementNum": 0,
"ReservedVolume": 0,
"ReservedWriteQps": 0,
"FileSize": 0,
"FileContent": "xx",
"FileName": "xx",
"TableType": "xx"
}
]
}

```

Output Example

```

{
"Response": {
"IdlFiles": [
{
"FileContent": null,
"FileExtType": "proto",
"FileId": 600,
"FileName": "tb_example_modify",

```

```
"FileSize": 287,
"FileType": "PROTO"
},
"RequestId": "81274902-0df6-4574-a3b0-2ea229ef903f",
"TableInfos": [
{
"Error": null,
"IndexKeySet": null,
"KeyFields": "{\\"KeyField\\": [{\\"Label\\":\\"required\\",\\"Name\\":\\"uin\\",\\"Type\\":\\"int64\\"}, {\\"Crypto\\":false,\\"Label\\":\\"required\\",\\"Name\\":\\"name\\",\\"Type\\":\\"string\\"}], \\"Num\\":2}",
"TableGroupId": "101",
"OldKeyFields": "{\\"KeyField\\": [{\\"Label\\":\\"required\\",\\"Name\\":\\"uin\\",\\"Type\\":\\"int64\\"}, {\\"Crypto\\":false,\\"Label\\":\\"required\\",\\"Name\\":\\"name\\",\\"Type\\":\\"string\\"}], \\"Num\\":2}",
"OldValueFields": "{\\"Num\\":2, \\"ValueField\\": [{\\"Label\\":\\"required\\",\\"Name\\":\\"gamesvrid\\",\\"Type\\":\\"int32\\"}, {\\"Crypto\\":false,\\"Label\\":\\"optional\\",\\"Name\\":\\"logintime\\",\\"Type\\":\\"string\\"}]}",
"ShardingKeySet": "",
"SumKeyFieldSize": 1022,
"SumValueFieldSize": 262144,
"TableIdlType": "PROTO",
"TableInstanceId": "tcaplus-1f224454",
"TableName": "tb_example",
"TableType": "GENERIC",
"TdrVersion": 1,
"ListElementNum": null,
"SortFieldNum": null,
"SortRule": null,
"ValueFields": "{\\"Num\\":3, \\"ValueField\\": [{\\"Label\\":\\"required\\",\\"Name\\":\\"gamesvrid\\",\\"Type\\":\\"int32\\"}, {\\"Crypto\\":false,\\"Label\\":\\"optional\\",\\"Name\\":\\"logintime\\",\\"Type\\":\\"string\\"}, {\\"Label\\":\\"optional\\",\\"Name\\":\\"add_v1\\",\\"Type\\":\\"int32\\"}]}"
}
],
"TotalCount": 1
}
```

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
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

ClearTables

最近更新时间：2023-09-19 17:36:52

1. API Description

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

This API is used to clear table data based on the specified table information.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ClearTables.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster instance where a table resides
SelectedTables.N	Yes	Array of SelectedTableInfoNew	List of information of tables to be cleared

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	Number of cleared tables
TableResults	Array of TableResultNew	List of table clearing results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Clearing a table

This example shows you how to clear a table.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=ClearTables
&ClusterId=5674209986
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "122bb375-7464-4536-a3c5-8ddb6f4ce4",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
        "TableIdlType": null,
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": null,
        "TaskId": "5674209986-1199",
        "TaskIds": null
      }
    ],
    "TotalCount": 1
  }
}
```



```
}  
}
```

Example2 clearTable

clearTable-test

Input Example

```
POST / HTTP/1.1  
Host: tcaplusdb.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: ClearTables  
<Common request parameters>  
  
{  
  "ClusterId": "19090249266",  
  "SelectedTables": [  
    {  
      "TableGroupId": "1",  
      "TableName": "auto_proto2_gene_0_27110510",  
      "TableIdlType": "TDR",  
      "TableType": "GENERIC"  
    }  
  ]  
}
```

Output Example

```
{  
  "Response": {  
    "RequestId": "0488b016-9c9e-44d5-9bd1-55f8f59cc0d0",  
    "TableResults": [  
      {  
        "ApplicationId": null,  
        "Error": {  
          "Code": "MissingParameter",  
          "Message": "Missing parameter TableInstanceId"  
        },  
        "TableGroupId": null,  
        "TableIdlType": null,  
        "TableInstanceId": null,  
        "TableName": null,  
        "TableType": null,  
        "TaskId": null,  
        "TaskIds": null  
      }  
    ]  
  }  
}
```

```

    }
  ],
  "TotalCount": 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.

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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](#)
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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.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.

ResourceNotFound

The resource does not exist.

CreateBackup

最近更新时间：2023-09-19 17:36:51

1. API Description

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

This API is used to create a backup task.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateBackup.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where the table to be backed up resides
SelectedTables.N	Yes	Array of SelectedTableInfoNew	Information list of tables to be backed up
Remark	No	String	Remarks

3. Output Parameters

Parameter Name	Type	Description
TaskIds	Array of String	List of backup creation task IDs Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
ApplicationIds	Array of String	List of backup creation application IDs Note: <code>null</code> may be returned for this field, 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 Creating a backup

This example shows you how to create a backup.

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=CreateBackup
&ClusterId=22762983670
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&Remark=test
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "c3446e81-4d07-4a80-a07f-f34f94b598bc",
    "TaskIds": [
      "22762983670-1"
    ],
    "ApplicationIds": [
      "34324234"
    ]
  }
}
```

```
}  
}
```

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](#)
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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.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

ModifyTableTags

最近更新时间：2023-09-19 17:36:48

1. API Description

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

This API is used to modify table tags.

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: ModifyTableTags.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where table tags need to be modified
SelectedTables.N	Yes	Array of SelectedTableInfoNew	The list of tables whose tags need to be modified
ReplaceTags.N	No	Array of TagInfoUnit	The list of tags to add or modify
DeleteTags.N	No	Array of TagInfoUnit	The list of tags to delete

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The total number of returned results
TableResults	Array of TableResultNew	Returned results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying a table tag

This example shows you how to modify a table tag.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=ModifyTableTags
&ClusterId=5674209986
&SelectedTables.0.TableInstanceId=tcaplus-0xm12ck1
&SelectedTables.0.TableGroupId=1
&SelectedTables.0.TableName=tb_test
&ReplaceTags.0.TagKey=test1
&ReplaceTags.0.TagValue=value1
&DeleteTags.0.TagKey=delete1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "abd7111a-62d4-4bbb-a781-3646040e9530",
    "TotalCount": 1,
    "TableResults": [
      {
        "TableInstanceId": "tcaplus-0xm12ck1",
        "TableGroupId": "1",
        "TableName": "tb_test",
        "TaskId": "5674209986-1212"
      }
    ]
  }
}
```



```
}  
]  
}  
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.

ResourceNotFound

The resource does not exist.

DescribeTableTags

最近更新时间：2023-09-19 17:36:50

1. API Description

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

This API is used to get table tags.

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: DescribeTableTags.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where a table resides
SelectedTables.N	Yes	Array of SelectedTableInfoNew	Table list

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	The total number of returned results
Rows	Array of TagsInfoOfTable	The information list of table tags
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting table tags

This example shows you how to get table tags.

Input Example

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

{
  "ClusterId": "5674209986",
  "SelectedTables": [
    {
      "TableIdlType": "xx",
      "TableGroupId": "1",
      "FileExtType": "xx",
      "TableInstanceId": "tcaplus-0xm12ck1",
      "Memo": "xx",
      "TableName": "tb_test",
      "ReservedReadQps": 0,
      "ListElementNum": 0,
      "ReservedVolume": 0,
      "ReservedWriteQps": 0,
      "FileSize": 0,
      "FileContent": "xx",
      "FileName": "xx",
      "TableType": "xx"
    }
  ]
}
```

```
]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abd7111a-62d4-4bbb-a781-3646040e9530",
    "TotalCount": 1,
    "Rows": [
      {
        "TableInstanceId": "tcaplus-0xm12ck1",
        "TableGroupId": "1",
        "TableName": "tb_test",
        "Tags": {
          "TagKey": "test1",
          "TagValue": "value1"
        }
      }
    ]
  }
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

SetTableIndex

最近更新时间：2023-09-19 17:36:47

1. API Description

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

This API is used to create a global index for a table.

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: SetTableIndex.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where the table resides
SelectedTables.N	Yes	Array of SelectedTableWithField	The list of tables that need to create global indexes

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	The number of tables whose global indexes are created
TableResults	Array of TableResultNew	The list of global index creation results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a distributed index for a table

This example shows you how to create a distributed index for a table.

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=SetTableIndex
&ClusterId=5674209986
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&SelectedTables.0.TableIdlType=PROTO
&SelectedTables.0.TableType=GENERIC
&SelectedTables.0.ShardNum=3
&SelectedTables.0.SelectedFields.0.FieldName=name
&SelectedTables.0.SelectedFields.0.IsPrimaryKey=Yes
&SelectedTables.0.SelectedFields.0.FieldType=string
&SelectedTables.0.SelectedFields.0.FieldSize=64
&SelectedTables.0.SelectedFields.1.FieldName=id
&SelectedTables.0.SelectedFields.1.IsPrimaryKey=No
&SelectedTables.0.SelectedFields.1.FieldType=int32
&SelectedTables.0.SelectedFields.1.FieldSize=4
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "TableResults": [
      {
```



```
"TableInstanceId": "abc",
"TaskId": "abc",
"TableName": "abc",
"TableType": "abc",
"TableIdlType": "abc",
"TableGroupId": "abc",
"Error": {
  "Code": "abc",
  "Message": "abc"
},
"TaskIds": [
  "abc"
],
"ApplicationId": "abc"
},
],
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

DeleteTableIndex

最近更新时间：2023-09-19 17:36:50

1. API Description

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

This API is used to delete the global index from a table.

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: DeleteTableIndex.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where the table resides
SelectedTables.N	Yes	Array of SelectedTableInfoNew	The list of tables whose global indexes need to be deleted

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	The number of tables whose global indexes are deleted
TableResults	Array of TableResultNew	The list of global index deletion results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a distributed index of a table

This example shows you how to delete a distributed index of a table.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=DeleteTableIndex
&ClusterId=5674209986
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "122bb375-7464-4536-a3c5-8ddbdd6f4ce4",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
        "TableIdlType": null,
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": null,
        "TaskId": "5674209986-1199",
        "TaskIds": null
      }
    ],
    "TotalCount": 1
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

ModifySnapshots

最近更新时间：2023-09-19 17:36:49

1. API Description

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

This API is used to modify the expiration time of one or more table snapshots.

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: ModifySnapshots.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where the table resides
SelectedTables.N	Yes	Array of SnapshotInfoNew	Snapshot list

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	The number of snapshots modified in batches
TableResults	Array of SnapshotResult	The result list of snapshots modified in batches
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying a snapshot

Input Example

```

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

{
  "ClusterId": "xx",
  "SelectedTables": [
    {
      "SnapshotName": "666",
      "TableGroupId": "1",
      "TableName": "cl_generic",
      "SnapshotDeadTime": "2020-09-22 00:00:00"
    }
  ]
}
    
```

Output Example

```

{
  "Response": {
    "RequestId": "17af6a7a-1fcc-4c1d-a4a2-caab4d9e75cc",
    "TableResults": [
      {
        "Error": {
          "Code": "",
        }
      }
    ]
  }
}
    
```

```
"Message": ""
},
"SnapshotCreateTime": "2021-03-19 11:40:40",
"SnapshotDeadTime": "2021-03-20 11:40:30",
"SnapshotName": "666",
"SnapshotSize": 0,
"SnapshotStatus": 0,
"SnapshotTime": "2021-03-12 11:40:32",
"TableGroupId": "1",
"TableName": "cl_generic",
"TaskId": ""
}
],
"TotalCount": 1
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

--	--

Error Code	Description
AuthFailure	CAM signature/authentication error
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

ImportSnapshots

最近更新时间：2023-09-19 17:36:49

1. API Description

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

This API is used to import a snapshot into a new table or the original table from which the snapshot was created.

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: ImportSnapshots.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where the original table (from which the snapshot was created) resides
Snapshots	Yes	SnapshotInfo	The information of the snapshot to import
ImportSpecialKey	Yes	String	Whether to import partial data of the snapshot. Valid values: <code>TRUE</code> (import partial data), <code>FALSE</code> (import all data).
ImportOriginTable	Yes	String	Whether to import to the original table. Valid values:

			<code>TRUE</code> (import to the original table), <code>FALSE</code> (import to a new table).
KeyFile	No	KeyFile	The file of the keys of the partial data
NewTableGroupId	No	String	The ID of the table group where the new table resides, which is valid only when <code>ImportOriginTable</code> is set to <code>FALSE</code>
NewTableName	No	String	The name of the new table, which is valid only when <code>ImportOriginTable</code> is set to <code>FALSE</code> . TcaplusDB will automatically create a table named <code>NewTableName</code> of the same structure as that of the original table.

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	<code>TaskId</code> is in the format of <code>AppInstanceId-taskId</code> , used to identify tasks of different clusters. Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
ApplicationId	String	<code>ApplicationId</code> is in the format of <code>AppInstanceId-applicationId</code> , which is used to identify applications of different clusters. Note: <code>u200d</code> 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 Importing a snapshot

This example shows you how to import a snapshot.

Input Example

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

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

{
  "ClusterId": "abc",
  "Snapshots": {
    "TableGroupId": "abc",
    "TableName": "abc",
    "SnapshotName": "abc",
    "SnapshotTime": "2020-09-22 00:00:00",
    "SnapshotDeadTime": "2020-09-22 00:00:00"
  },
  "ImportSpecialKey": "abc",
  "KeyFile": {
    "FileName": "abc",
    "FileExtType": "abc",
    "FileContent": "abc",
    "FileSize": 0
  },
  "ImportOriginTable": "abc",
  "NewTableGroupId": "abc",
  "NewTableName": "abc"
}
```

Output Example

```
{
  "Response": {
    "TaskId": "abc",
    "ApplicationId": "abc",
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInsufficient.BalanceError	Insufficient balance.
ResourceNotFound	The resource does not exist.

DescribeSnapshots

最近更新时间：2023-09-19 17:36:50

1. API Description

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

This API is used to query the list of table snapshots.

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: DescribeSnapshots.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where the table resides
TableGroupId	No	String	The ID of the table group where the table resides
TableName	No	String	Table name
SnapshotName	No	String	Snapshot name
SelectedTables.N	No	Array of SelectedTableInfoNew	The list of snapshots pulled in batches

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of snapshots
TableResults	Array of SnapshotResult	The result list of snapshots
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 table snapshots

This example shows you how to query the list of table snapshots.

Input Example

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

{
  "ClusterId": "18685341856",
  "TableGroupId": "1",
  "TableName": "cl_generic"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "TableResults": [
      {
        "SnapshotCreateTime": "2020-09-22 00:00:00",
        "TableGroupId": "1",
        "SnapshotSize": 1,

```

```

"SnapshotName": "test",
"SnapshotTime": "2020-09-22 00:00:00",
"TableName": "cl_generic",
"SnapshotStatus": 1,
"TaskId": "xx",
"Error": {
  "Message": "xx",
  "Code": "xx"
},
"SnapshotDeadTime": "2020-09-22 00:00:00"
},
],
"RequestId": "xx"
}
}
    
```

5. Developer Resources

SDK

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

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
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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
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InvalidAppName	Invalid cluster name
ResourceInsufficient	Insufficient resources.
ResourceNotFound	The resource does not exist.

DeleteSnapshots

最近更新时间：2023-09-19 17:36:51

1. API Description

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

This API is used to delete one or more table snapshots.

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: DeleteSnapshots.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where the table resides
SelectedTables.N	Yes	Array of SnapshotInfoNew	The list of snapshots to delete

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	The number of snapshots deleted in batches
TableResults	Array of SnapshotResult	The result list of snapshots deleted in batches
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a snapshot

This example shows you how to delete a table snapshot.

Input Example

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

{
  "ClusterId": "xx",
  "SelectedTables": [
    {
      "SnapshotName": "666",
      "TableGroupId": "1",
      "TableName": "cl_generic",
      "SnapshotDeadTime": "2020-09-22 00:00:00"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "17af6a7a-1fcc-4c1d-a4a2-caab4d9e75cc",
    "TableResults": [
      {
```

```
"Error": {
  "Code": "",
  "Message": ""
},
"SnapshotCreateTime": "2021-03-19 11:40:40",
"SnapshotDeadTime": "2021-03-20 11:40:30",
"SnapshotName": "666",
"SnapshotSize": 0,
"SnapshotStatus": 0,
"SnapshotTime": "2021-03-12 11:40:32",
"TableGroupId": "1",
"TableName": "cl_generic",
"TaskId": ""
}
],
"TotalCount": 1
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

CreateSnapshots

最近更新时间：2023-09-19 17:36:51

1. API Description

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

This API is used to create one or more table snapshots at a specified past time point.

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: CreateSnapshots.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where the table resides
SelectedTables.N	Yes	Array of SnapshotInfo	Snapshot list

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	The number of snapshots created in batches
TableResults	Array of SnapshotResult	The result list of snapshots created in batches
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a snapshot

Input Example

```

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

{
  "ClusterId": "xx",
  "SelectedTables": [
    {
      "SnapshotName": "666",
      "TableGroupId": "1",
      "SnapshotTime": "2020-09-22 00:00:00",
      "TableName": "cl_generic",
      "SnapshotDeadTime": "2020-09-22 00:00:00"
    }
  ]
}
    
```

Output Example

```

{
  "Response": {
    "RequestId": "17af6a7a-1fcc-4c1d-a4a2-caab4d9e75cc",
    "TableResults": [
      {
        "Error": {
    
```

```
"Code": "",
"Message": ""
},
"SnapshotCreateTime": "2021-03-19 11:40:40",
"SnapshotDeadTime": "2021-03-20 11:40:30",
"SnapshotName": "666",
"SnapshotSize": 0,
"SnapshotStatus": 0,
"SnapshotTime": "2021-03-12 11:40:32",
"TableGroupId": "1",
"TableName": "cl_generic",
"TaskId": ""
}
],
"TotalCount": 1
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

UpdateApply

最近更新时间：2023-09-19 17:36:47

1. API Description

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

This API is used to update the application status.

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: UpdateApply.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ApplyStatus.N	Yes	Array of ApplyStatus	Application status

3. Output Parameters

Parameter Name	Type	Description

ApplyResults	Array of ApplyResult	List of updated applications Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of updated applications
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Updating the application status

This example shows you how to update the application status.

Input Example

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

{
  "ApplyStatus": [
    {
      "ApplicationId": "abc",
      "ApplicationStatus": 0,
      "ApplicationType": 0,
      "ClusterId": "abc"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "ApplyResults": [
      {
        "ApplicationId": "2-273",
        "ApplicationStatus": null,
        "ApplicationType": 7,
        "Error": {
```

```
"Code": "OperationDenied",
"Message": "Application has been processed."
},
"TaskId": null
}
],
"RequestId": "fdsfdsfdsfdf",
"TotalCount": 0
}
}
```

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
FailedOperation	Operation failed.
InternalError	Internal error.

InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
OperationDenied	Operation denied.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

MergeTablesData

最近更新时间：2023-09-19 17:36:49

1. API Description

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

This API is used to merge tables.

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: MergeTablesData.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
SelectedTables.N	Yes	Array of MergeTablesInfo	Tables to be merged
IsOnlyCompare	Yes	Boolean	Valid values: <code>true</code> (only compare), <code>false</code> (compare and merge)

3. Output Parameters

Parameter Name	Type	Description
Results	Array of MergeTableResult	Table merging results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Merging specified tables

This example shows you how to merge specified tables.

Input Example

```

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

{
  "SelectedTables": [
    {
      "MergeTables": {
        "SrcTableClusterId": "abc",
        "SrcTableGroupId": "abc",
        "SrcTableName": "abc",
        "DstTableClusterId": "abc",
        "DstTableGroupId": "abc",
        "DstTableName": "abc",
        "SrcTableInstanceId": "abc",
        "DstTableInstanceId": "abc"
      },
      "CheckIndex": true
    }
  ],
  "IsOnlyCompare": true
}
    
```

Output Example

```
{
  "Response": {
    "RequestId": "fdsfdsfdsfdsf",
    "Results": [
      {
        "ApplicationId": null,
        "Error": null,
        "Table": {
          "DstTableClusterId": "3",
          "DstTableGroupId": "2",
          "DstTableInstanceId": "tcaplus-83c6c2d8",
          "DstTableName": "cl_list_2",
          "SrcTableClusterId": "3",
          "SrcTableGroupId": "1",
          "SrcTableInstanceId": "tcaplus-0b2c635d",
          "SrcTableName": "cl_list"
        },
        "TaskId": "3-418"
      }
    ]
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

SetTableDataFlow

最近更新时间：2023-09-19 17:36:47

1. API Description

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

This API is used to enable data subscription for tables or modify the feature's configurations.

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: SetTableDataFlow.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where the tables reside
SelectedTables.N	Yes	Array of SelectedTableWithField	The list of tables for which data subscription will be enabled

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	The number of tables for which data subscription has been enabled
TableResults	Array of TableResultNew	The result list of tables for which data subscription has been enabled
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enabling data subscription for tables and modifying the feature's configurations.

This example shows you how to enable data subscription for tables and modify the feature's configurations.

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=SetTableDataFlow
&ClusterId=5674209986
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&SelectedTables.0.TableIdlType=PROTO
&SelectedTables.0.TableType=GENERIC
&SelectedTables.0.ShardNum=3
&SelectedTables.0.SelectedFields.0.FieldName=name
&SelectedTables.0.SelectedFields.0.IsPrimaryKey=Yes
&SelectedTables.0.SelectedFields.0.FieldType=string
&SelectedTables.0.SelectedFields.0.FieldSize=64
&SelectedTables.0.SelectedFields.1.FieldName=id
&SelectedTables.0.SelectedFields.1.IsPrimaryKey=No
&SelectedTables.0.SelectedFields.1.FieldType=int32
&SelectedTables.0.SelectedFields.1.FieldSize=4
&SelectedTables.0.KafkaInfo.Address=string
&SelectedTables.0.KafkaInfo.IsVpc=0
&SelectedTables.0.KafkaInfo.Topic=string
&SelectedTables.0.KafkaInfo.User=string
&SelectedTables.0.KafkaInfo.Password=string
&SelectedTables.0.KafkaInfo.Instance=string
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "122bb375-7464-4536-a3c5-8ddb6f4ce4",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
        "TableIdlType": null,
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": null,
        "ApplicationId": "null",
        "TaskId": "5674209986-1199",
        "TaskIds": null
      }
    ],
    "TotalCount": 1
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
LimitExceeded	The quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

DeleteTableDataFlow

最近更新时间：2023-09-19 17:36:50

1. API Description

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

This API is used to disable data subscription for tables.

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: DeleteTableDataFlow.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where the tables reside
SelectedTables.N	Yes	Array of SelectedTableInfoNew	The list of tables for which data subscription will be disabled

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	The number of tables for which data subscription has been disabled
TableResults	Array of TableResultNew	The result list of tables for which data subscription has been disabled
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Disabling data subscription for tables

This example shows you how to disable data subscription for tables.

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=DeleteTableDataFlow
&ClusterId=5674209986
&SelectedTables.0.TableInstanceId=tcaplus-1f224454
&SelectedTables.0.TableGroupId=101
&SelectedTables.0.TableName=tb_example
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "122bb375-7464-4536-a3c5-8ddb6f4ce4",
    "TableResults": [
      {
        "Error": null,
        "TableGroupId": "101",
        "TableIdlType": null,
        "TableInstanceId": "tcaplus-1f224454",
        "TableName": "tb_example",
        "TableType": null,
        "ApplicationId": "null",
        "TaskId": "5674209986-1199",
        "TaskIds": null
      }
    ]
  },
}
```

```
"TotalCount": 1
}
```

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.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

Table Group APIs

ModifyTableGroupName

最近更新时间：2023-09-19 17:36:46

1. API Description

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

This API is used to rename a TcaplusDB table group.

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: ModifyTableGroupName.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where a table group resides
TableGroupId	Yes	String	ID of the table group to be renamed
TableGroupName	Yes	String	New table group name, which can contain letters and symbols

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 Renaming a table group

This example shows you how to rename a table group.

Input Example

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

{
  "TableGroupId": "1",
  "ClusterId": "6179109757",
  "TableName": "tdr test zone 1"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c3d85d90-65a6-46ed-9187-b2a429e18cfc"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameterValue.InvalidTableGroupName	Invalid table group name.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.DuplicateTableGroupName	The table group name already exists.

DescribeTableGroups

最近更新时间：2023-09-19 17:36:46

1. API Description

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

This API is used to query the table group list.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTableGroups.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where a table group resides
TableGroupIds.N	No	Array of String	Table group ID list
Filters.N	No	Array of Filter	Filter. Valid values: TableGroupName, TableGroupId
Offset	No	Integer	Query list offset
Limit	No	Integer	Number of returned results in query list

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of table groups
TableGroups	Array of TableGroupInfo	Table group information list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the table group list

This example shows you how to query the table group list.

Input Example

```
https://tcaplus.tencentcloudapi.com/?Action=DescribeTableGroups
&ClusterId=6179109757
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "dbaf73f4-3d1d-4f7b-b3b3-259d53e546be",
    "TotalCount": 2,
    "TableGroups": [
      {
        "CreatedTime": "2019-08-30 18:57:02",
        "TableGroupId": "1",
        "TableCount": 0,
        "TotalSize": 0,
        "TableGroupName": "tdrTest zone1"
      },
      {
        "CreatedTime": "2019-08-30 18:58:03",
        "TableGroupId": "1001",
        "TableCount": 0,

```

```

"TotalSize": 0,
"TableGroupName": "tdrProduction zone1"
}
]
}
}
    
```

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
FailedOperation.RegionMismatch	The requested region does not match.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.

ResourceNotFound	The resource does not exist.
------------------	------------------------------

DeleteTableGroup

最近更新时间：2023-09-19 17:36:46

1. API Description

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

This API is used to delete a table group.

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: DeleteTableGroup.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where a table group resides
TableGroupId	Yes	String	Table group ID

3. Output Parameters

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

TaskId	String	Task ID generated by table group deletion
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a table group

This example shows you how to delete a table group based on cluster ID and table group ID.

Input Example

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

{
  "TableGroupId": "1",
  "ClusterId": "6179109757"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1d7ba682-570c-4589-9624-7b463cd5d852",
    "TaskId": "6179109757-1208"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.

CreateTableGroup

最近更新时间：2023-09-19 17:36:47

1. API Description

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

This API is used to create a table group in a TcaplusDB cluster.

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: CreateTableGroup.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where a table group resides
TableGroupName	Yes	String	Table group name, which can contain up to 32 letters and digits
TableGroupId	No	String	Table group ID, which can be customized but must be unique in one cluster. If it is not specified, the auto-increment mode will be used.
ResourceTags.N	No	Array of TagInfoUnit	Table group tag list

3. Output Parameters

Parameter Name	Type	Description
TableGroupId	String	ID of table group successfully created
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a table group

This example shows you how to create a TcaplusDB table group in a cluster.

Input Example

```

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

{
  "TableName": "tdr zone 1",
  "ResourceTags": [
    {
      "TagKey": "xx",
      "TagValue": "xx"
    }
  ],
  "ClusterId": "6179109757",
  "TableGroupId": "xx"
}
    
```

Output Example

```

{
  "Response": {
    "TableGroupId": "1",
    "RequestId": "d87c0378-47af-4d59-920d-82fd2a778e6c"
  }
}
    
```

```
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameterValue.InvalidTableGroupName	Invalid table group name.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.DuplicateTableGroupInfo	The table group ID or name already exists.
ResourceUnavailable.DuplicateTableGroupName	The table group name already exists.
ResourceUnavailable.NoAvailableTableGroup	No table group resources available.

ModifyTableGroupTags

最近更新时间：2023-09-19 17:36:46

1. API Description

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

This API is used to modify table group tags.

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: ModifyTableGroupTags.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where table group tags need to be modified
TableGroupId	Yes	String	The ID of the table group whose tags need to be modified
ReplaceTags.N	No	Array of TagInfoUnit	The list of tags to add or modify
DeleteTags.N	No	Array of TagInfoUnit	Tags to delete

3. Output Parameters

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

4. Example

Example1 Modifying table group tags

This example shows you how to modify table group tags.

Input Example

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

{
  "ReplaceTags": [
    {
      "TagKey": "test1",
      "TagValue": "value1"
    }
  ],
  "DeleteTags": [
    {
      "TagKey": "delete1",
      "TagValue": "xx"
    }
  ],
  "TableGroupId": "1",
  "ClusterId": "5674209986"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abd7111a-62d4-4bbb-a781-3646040e9530",
    "TaskId": "5674209986-1211"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.

InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

DescribeTableGroupTags

最近更新时间：2023-09-19 17:36:46

1. API Description

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

This API is used to get the associated tag list of a table group.

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: DescribeTableGroupTags.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster where table group tags need to be queried
TableGroupIds.N	Yes	Array of String	The list of IDs of the table groups whose tags need to be queried

3. Output Parameters

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

Name		
Rows	Array of TagsInfoOfTableGroup	The information list of table group tags
TotalCount	Integer	The number of returned results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the associated tag list of a table group

This example shows you how to get the associated tag list of a table group.

Input Example

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

{
  "ClusterId": "5674209986",
  "TableGroupIds": [
    "1"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abd7111a-62d4-4bbb-a781-3646040e9530",
    "TotalCount": 1,
    "Rows": [
      {
        "ClusterId": "5674209986",
        "TableGroupId": "1",
        "Tags": {
          "TagKey": "test1",
          "TagValue": "value1"
        }
      }
    ]
  }
}
```

```
}  
}  
]  
}  
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

Cluster APIs

DescribeBackupRecords

最近更新时间：2023-09-19 17:36:54

1. API Description

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

This API is used to query backup records.

When querying the cluster level, set `TableGroupId` to `-1` and `TableName` to `-1`.

When querying the cluster and table group levels, set `TableName` to `-1`.

When querying the cluster, table group, and table levels, both `TableGroupId` and `TableName` cannot be set to `-1`.

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: DescribeBackupRecords.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	No	String	Cluster ID, which is used to query a specified cluster

Limit	No	Integer	Number of results per page
Offset	No	Integer	Page offset
TableGroupId	No	String	Table group ID used as a filter condition
TableName	No	String	Table name used as a filter condition

3. Output Parameters

Parameter Name	Type	Description
BackupRecords	Array of BackupRecords	Backup record details
TotalCount	Integer	Number of returned entries
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 cluster operation applications

Input Example

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

{
  "Limit": 1,
  "ClusterId": "xx",
  "TableGroupId": "xx",
  "TableName": "xx",
  "Offset": 1
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 92,
    "BackupRecords": [
      {
        "BackupBatchTime": "xx",
        "AppId": 1,
        "TableName": "xx",
        "ZoneId": 1,
        "BackupType": "xx",
        "FileTag": "xx",
        "ShardCount": 1,
        "BackupExpireTime": "xx",
        "BackupSuccRate": "xx",
        "BackupFileSize": 1
      }
    ],
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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

- [Tencent Cloud SDK 3.0 for Python](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation.RegionMismatch	The requested region does not match.
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

DeletelIdFiles

最近更新时间：2023-09-19 17:36:54

1. API Description

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

This API is used to delete a target IDL file by specifying the cluster ID and information of the file to be deleted. If the file is associated with a table, deletion will fail.

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: DeletelIdFiles.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster where IDL resides
IdlFiles.N	Yes	Array of IdlFileInfo	List of information of IDL files to be deleted

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	Number of returned results
IdlFileInfos	Array of IdlFileInfoWithoutContent	Deletion result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a target IDL file

This example shows you how to delete a target IDL file.

Input Example

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

{
  "ClusterId": "6084038577",
  "IdlFiles": [
    {
      "FileExtType": "proto",
      "FileType": "PROTO",
      "FileName": "tb_example",
      "FileSize": 0,
      "FileContent": "xx",
      "FileId": 0
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "IdlFileInfos": [
```

```
{
  "Error": null,
  "FileExtType": "proto",
  "FileId": 849,
  "FileName": "tb_example",
  "FileSize": 266,
  "FileType": "PROTO"
},
"RequestId": "4e79897b-5696-4d1b-b337-d2b46824de64",
"TotalCount": 1
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.

InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.

ModifyClusterPassword

最近更新时间：2023-09-19 17:36:53

1. API Description

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

This API is used to change the password of a specified cluster. The backend will allow the TcaplusDB SDK to access databases with both old and new passwords before the old password expires. You cannot submit a new password change request before the old password expires or submit a request to modify the expiration time of the old password after the old password expires.

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: ModifyClusterPassword.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster for which to modify the password
OldPassword	Yes	String	Old cluster password
OldPasswordExpireTime	Yes	Timestamp	Expected expiration time of old cluster password

NewPassword	Yes	String	New cluster password, which must contain lowercase letters (a-z), uppercase letters (A-Z), and digits (0-9).
Mode	No	String	Update mode. 1: updates password, 2: updates old password expiration time. Default value: 1

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 Modifying a cluster password

This example shows you how to modify a cluster password.

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=ModifyClusterPassword
&ClusterId=23311894780
&OldPassword=canmkdmk1215LM
&NewPassword=99c59cb345c61063db
&OldPasswordExpireTime=2020-09-22 00:00:00
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "8cEcE3E8-2fE2-6d4b-5E34-Fdc01E35f2C6"
  }
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.OldPasswordHasExpired	The old password has expired.
FailedOperation.OldPasswordInUse	The old password has not expired.
FailedOperation.PasswordFailure	Incorrect password.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InvalidTimeValue	Invalid time format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

ModifyClusterName

最近更新时间：2023-09-19 17:36:53

1. API Description

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

This API is used to rename a specified cluster.

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: ModifyClusterName.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of the cluster to be renamed
ClusterName	Yes	String	Cluster name to be changed to, which can contain up to 32 letters and digits

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 Renaming a cluster

This example shows you how to rename a cluster with the specified `ClusterId` .

Input Example

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

{
  "ClusterName": "gz test PROTO",
  "ClusterId": "5674209986"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "87562838-1eda-45f3-abda-59a704135fe7"
  }
}
```

5. Developer Resources

SDK

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

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
FailedOperation.RegionMismatch	The requested region does not match.
InternalError	Internal error.
InvalidParameterValue.InvalidClusterName	Invalid cluster name.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.DuplicateClusterName	The cluster name already exists.

DescribeClusters

最近更新时间：2023-09-19 17:36:54

1. API Description

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

This API is used to query the TcaplusDB cluster list, including cluster details.

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: DescribeClusters.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterIds.N	No	Array of String	List of IDs of clusters to be queried
Filters.N	No	Array of Filter	Query filter
Offset	No	Integer	Query list offset
Limit	No	Integer	Number of returned results in query list. Default value: 20
Ipv6Enable	No	Integer	Whether to enable IPv6 address access

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of cluster instances
Clusters	Array of ClusterInfo	Cluster instance list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the cluster list

This example shows you how to query your list of clusters.

Input Example

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

Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "RequestId": "xx",
    "Clusters": [
      {
        "ApiAccessIpv6": "xx",
        "DbuUins": [
          "xx"
        ],
        "KafkaInfo": {
          "IsVpc": true,
          "Topic": "xx",
          "Password": "xx",
          "User": "xx",
          "Address": "xx",
          "Instance": "ckafka-14xpzgpz"
        }
      }
    ]
  }
}
```

```

},
"PasswordStatus": "xx",
"CreatedTime": "2020-09-22 00:00:00",
"WriteCapacityUnit": 0,
"IdlType": "xx",
"VpcId": "xx",
"ApiAccessIp": "xx",
"ClusterId": "xx",
"ProxyList": [
{
"ProcessSpeed": 0,
"AverageProcessDelay": 0,
"MachineType": "xx",
"ProxyUid": "xx",
"SlowProcessSpeed": 0
}
],
"Censorship": 0,
"SubnetId": "xx",
"Password": "xx",
"ApiAccessId": "xx",
"DiskVolume": 0,
"DataFlowStatus": 0,
"Region": "xx",
"ClusterType": 0,
"NetworkType": "xx",
"OldPasswordExpireTime": "xx",
"ServerList": [
{
"MachineType": "xx",
"ServerUid": "xx",
"ReadNum": 0,
"WriteNum": 0,
"MemoryRate": 0,
"DiskRate": 0
}
],
"ApiAccessPort": 9999,
"ClusterName": "xx",
"ClusterStatus": 0,
"ReadCapacityUnit": 0
},
{
"ApiAccessIpv6": "xx",
"DbuUins": [
"342",
"432432",

```

```
"342342"  
],  
"PasswordStatus": "xx",  
"KafkaInfo": {  
"IsVpc": true,  
"Topic": "xx",  
"Password": "xx",  
"User": "xx",  
"Address": "xx",  
"Instance": "ckafka-14xpzgpz"  
},  
"CreatedTime": "2020-09-22 00:00:00",  
"WriteCapacityUnit": 0,  
"IdlType": "xx",  
"VpcId": "xx",  
"ApiAccessIp": "xx",  
"ClusterId": "xx",  
"ClusterStatus": 0,  
"ProxyList": [  
{  
"MachineType": "xx",  
"AverageProcessDelay": 0,  
"ProcessSpeed": 0,  
"ProxyUid": "xx",  
"SlowProcessSpeed": 0  
}  
],  
"Censorship": 1,  
"SubnetId": "xx",  
"Password": "xx",  
"ApiAccessId": "xx",  
"DiskVolume": 0,  
"DataFlowStatus": 0,  
"Region": "xx",  
"ClusterType": 0,  
"OldPasswordExpireTime": "xx",  
"ServerList": [  
{  
"ServerUid": "xx",  
"ReadNum": 0,  
"DiskRate": 0,  
"WriteNum": 0,  
"MemoryRate": 0,  
"MachineType": "xx"  
}  
],  
"ApiAccessPort": 9999,
```

```

"ClusterName": "xx",
"NetworkType": "xx",
"ReadCapacityUnit": 0
}
]
}
}

```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation.RegionMismatch	The requested region does not match.
InternalServerError	Internal error.
InvalidParameterValue	Incorrect parameter value.

DeleteCluster

最近更新时间：2023-09-19 17:36:54

1. API Description

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

This API is used to delete a TcaplusDB cluster, which will succeed only after all resources (including table groups and tables) in the cluster are released.

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: DeleteCluster.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	ID of cluster to be deleted

3. Output Parameters

Parameter Name	Type	Description

TaskId	String	Task ID generated by cluster deletion
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a cluster

This example shows you how to delete a TcaplusDB cluster by specifying the cluster ID.

Input Example

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

{
  "ClusterId": "6179109757"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abd7111a-62d4-4bbb-a781-3646040e9530",
    "TaskId": "6179109757-1210"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.

CreateCluster

最近更新时间：2023-09-19 17:36:54

1. API Description

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

This API is used to create a TcaplusDB cluster.

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: CreateCluster.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
IdlType	Yes	String	Cluster data description language type, such as <code>PROTO</code> , <code>TDR</code> , or <code>MIX</code>
ClusterName	Yes	String	Cluster name, which can contain up to 32 letters and digits
VpcId	Yes	String	ID of the VPC instance bound to a cluster in the format of <code>vpc-f4916u0z</code>
SubnetId	Yes	String	ID of the subnet instance bound to a cluster in the format of <code>subnet-pxir56ns</code>

Password	Yes	String	Cluster access password, which must contain lowercase letters (a-z), uppercase letters (A-Z), and digits (0-9).
ResourceTags.N	No	Array of TagInfoUnit	Cluster tag list
Ipv6Enable	No	Integer	Whether to enable IPv6 address access for clusters
ServerList.N	No	Array of MachineInfo	Information of the machine at the storage layer (tcapsvr) in a dedicated cluster
ProxyList.N	No	Array of MachineInfo	Information of the machine at the access layer (tcaproxy) in a dedicated cluster
ClusterType	No	Integer	Cluster type. Valid values: <code>1</code> (standard), <code>2</code> (dedicated)
AuthType	No	Integer	Authentication type. Valid values: <code>0</code> (static password), <code>1</code> (signature)

3. Output Parameters

Parameter Name	Type	Description
ClusterId	String	Cluster 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 TcaplusDB cluster

This example shows you how to create a TcaplusDB cluster.

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=CreateCluster
&IdlType=TDR
&ClusterName=gz test TDR
&VpcId=vpc-kppg4pm1
&SubnetId=subnet-3sww53pa
```

```
&Password=84ea4cbf06573ED
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ClusterId": "6179109757",
    "RequestId": "8f1cc454-4a80-4ed3-a6c3-b7df2b0e8ec7"
  }
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.

InvalidParameterValue.InvalidClusterName	Invalid cluster name.
InvalidParameterValue.UnsupportedIdlType	Unsupported application data description type.
ResourceInsufficient.BalanceError	Insufficient balance.
ResourceInsufficient.NoAvailableCluster	No cluster resources available.
ResourceInsufficient.NoEnoughVipInVPC	There are no VIP resources available in the VPC.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.DuplicateClusterName	The cluster name already exists.

ModifyClusterTags

最近更新时间：2023-09-19 17:36:53

1. API Description

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

This API is used to modify cluster tags.

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: ModifyClusterTags.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The ID of the cluster whose tags need to be modified
ReplaceTags.N	No	Array of TagInfoUnit	The list of tags to add or modify
DeleteTags.N	No	Array of TagInfoUnit	Tags to delete

3. Output Parameters

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

4. Example

Example1 Modifying cluster tags

This example shows you how to modify cluster tags.

Input Example

```

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

{
  "ReplaceTags": [
    {
      "TagKey": "test1",
      "TagValue": "value1"
    }
  ],
  "DeleteTags": [
    {
      "TagKey": "delete1",
      "TagValue": "xx"
    }
  ],
  "ClusterId": "5674209986"
}
    
```

Output Example


```
{
  "Response": {
    "RequestId": "abd7111a-62d4-4bbb-a781-3646040e9530",
    "TaskId": "5674209986-1210"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter.

InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

DescribeClusterTags

最近更新时间：2023-09-19 17:36:54

1. API Description

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

This API is used to get the associated tag list of a cluster.

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: DescribeClusterTags.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterIds.N	Yes	Array of String	The list of cluster IDs

3. Output Parameters

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

Rows	Array of TagsInfoOfCluster	The information list of cluster tags
TotalCount	Integer	The number of returned results
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the associated tag list of a cluster

This example shows you how to get the associated tag list of a cluster.

Input Example

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

{
  "ClusterIds": [
    "5674209986"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abd7111a-62d4-4bbb-a781-3646040e9530",
    "TotalCount": 1,
    "Rows": [
      {
        "ClusterId": "5674209986",
        "Tags": {
          "TagKey": "test1",
          "TagValue": "value1"
        }
      }
    ]
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

ModifyClusterMachine

最近更新时间：2023-09-19 17:36:53

1. API Description

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

This API is used to modify the machines of a dedicated cluster.

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: ModifyClusterMachine.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ServerList.N	Yes	Array of MachineInfo	Information of the machines at the storage layer (tcapsvr)
ProxyList.N	Yes	Array of MachineInfo	Information of the machines at the access layer (tcaproxy)
ClusterType	Yes	Integer	Cluster type. Valid values: 1 (standard), 2 (dedicated)

3. Output Parameters

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

4. Example

Example1 Modifying the machine resources in a dedicated cluster

This example shows you how to modify the machine resources in a dedicated cluster.

Input Example

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

{
  "ProxyList": [
    {
      "MachineNum": 0,
      "MachineType": "T1"
    }
  ],
  "ServerList": [
    {
      "MachineNum": 0,
      "MachineType": "T1"
    }
  ],
  "ClusterId": "6179109757",
  "ClusterType": 0
}
```

Output Example

```

{
  "Response": {
    "ClusterId": "6179109757",
    "RequestId": "8f1cc454-4a80-4ed3-a6c3-b7df2b0e8ec7"
  }
}
    
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
ResourceInUse	The resource is in use.
ResourceInsufficient	Insufficient resources.

ResourceInsufficient.NoAvailableApp	No available cluster resources.
ResourceInsufficient.NoAvailableCluster	No cluster resources available.

DescribeMachine

最近更新时间：2023-09-19 17:36:53

1. API Description

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

This API is used to query the available machines in a dedicated cluster.

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: DescribeMachine.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Ipv6Enable	No	Integer	If this parameter is not <input type="checkbox"/> , machines supporting IPv6 will be queried.

3. Output Parameters

Parameter Name	Type	Description
PoolList	Array of	The list of dedicated machine resources

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

4. Example

Example1 Querying the machines in a dedicated cluster

This example shows you how to query the available machine resources for a dedicated cluster.

Input Example

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

Output Example

```
{
  "Response": {
    "PoolList": [
      {
        "PoolUid": 1,
        "Ipv6Enable": 0,
        "AvailableAppCount": 100,
        "ServerList": [
          {
            "ServerUid": "svr1",
            "MachineType": "T1"
          },
          {
            "ServerUid": "svr2",
            "MachineType": "T2"
          }
        ],
        "ProxyList": [
          {
            "ProxyUid": "proxy1",
            "MachineType": "T1"
          },
          {
            "ProxyUid": "proxy1",
            "MachineType": "T2"
          }
        ]
      }
    ]
  }
}
```

```
]
},
{
  "PoolUid": 2,
  "Ipv6Enable": 0,
  "AvailableAppCount": 100,
  "ServerList": [
    {
      "ServerUid": "svr1",
      "MachineType": "T1"
    },
    {
      "ServerUid": "svr2",
      "MachineType": "T2"
    }
  ],
  "ProxyList": [
    {
      "ProxyUid": "proxy1",
      "MachineType": "T1"
    },
    {
      "ProxyUid": "proxy1",
      "MachineType": "T2"
    }
  ]
},
"RequestId": "34680b61-9836-44d9-bae9-e231f4b61a48"
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation.RegionMismatch	The requested region does not match.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
ResourceUnavailable	The resource is unavailable.

ModifyCensorship

最近更新时间：2023-09-19 17:36:53

1. API Description

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

This API is used to enable or disable the cluster operation approval feature.

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: ModifyCensorship.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Censorship	Yes	Integer	Whether to enable the operation approval feature for this cluster. Valid values: <code>0</code> (disable), <code>1</code> (enable)
Uins.N	No	Array of String	Approver UIN list

3. Output Parameters

Parameter Name	Type	Description
ClusterId	String	Cluster ID
Uins	Array of String	Approver UIN list Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Censorship	Integer	Whether the operation approval feature is enabled for this cluster. Valid values: <code>0</code> (disabled), <code>1</code> (enabled)
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Disabling the cluster operation approval feature

Input Example

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

{
  "Uins": [
    "xx"
  ],
  "ClusterId": "xx",
  "Censorship": 0
}
```

Output Example

```
{
  "Response": {
    "Uins": [
      "xx"
    ],
    "ClusterId": "xx",
    "RequestId": "xx",
  }
}
```

```
"Censorship": 0
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InvalidClusterName	Invalid cluster name.

MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

DescribeApplications

最近更新时间：2021-06-04 17:31:38

1. API Description

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

This API is used to query the list of cluster operation applications.

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 parameter. The value used for this API: DescribeApplications.
Version	Yes	String	Common parameter. The value used for this API: 2019-08-23.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
ClusterId	No	String	ID of the cluster whose applications will be queried
Limit	No	Integer	The maximum number of results returned per page
Offset	No	Integer	Pagination offset
CensorStatus	No	Integer	Application status used as a filter condition
TableGroupId	No	String	Table group ID used as a filter condition

TableName	No	String	Table name used as a filter condition
Applicant	No	String	Applicant UIN used as a filter condition
ApplyType	No	Integer	Application type used as a filter condition

3. Output Parameters

Parameter Name	Type	Description
Applications	Array of Application	Application list
TotalCount	Integer	Total number of applications
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 cluster operation applications

Input Example

```

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

{
  "TableGroupId": "xx",
  "ClusterId": "xx",
  "Applicant": "xx",
  "TableName": "xx",
  "Limit": 1,
  "Offset": 1,
  "CensorStatus": 0,
  "ApplyType": 0
}
    
```

Output Example

```
{
  "Response": {
    "Applications": [
      {
        "Applicant": "100000012683",
        "ApplicationId": "4-169",
        "ApplicationStatus": 2,
        "ApplicationType": 2,
        "CanCensor": true,
        "CanWithdrawal": false,
        "ClusterId": "4",
        "ClusterName": "xml_1_ly",
        "CreatedTime": "2021-02-25 11:58:37",
        "ExecuteStatus": "-1",
        "ExecuteUser": "222",
        "TableGroupId": "1",
        "TableGroupName": "zone_1_1",
        "TableInstanceId": "null",
        "TableName": "add_table10",
        "TaskId": "0",
        "UpdateTime": "2021-02-25 11:58:37"
      }
    ],
    "RequestId": "fdsfdsfdsfdsf",
    "TotalCount": 92
  }
}
```

5. Developer Resources

SDK

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

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation.RegionMismatch	The requested region does not match.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.

Other APIs

DescribeUinInWhitelist

最近更新时间：2023-09-19 17:36:52

1. API Description

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

This API is used to query whether the current user is in the allowlist and control whether the user can create TDR-type apps or tables.

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: DescribeUinInWhitelist.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.

3. Output Parameters

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

Result	String	Query result. FALSE: yes, TRUE: no
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying whether the current user is in the allowlist

This example shows you how to query whether the current user is in the allowlist.

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "RequestId": "c5401419-d469-4a9b-8317-bf844ceebb09",
    "Result": "FALSE"
  }
}
```

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](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.

DescribeTasks

最近更新时间：2023-09-19 17:36:52

1. API Description

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

This API is used to query the task list.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTasks.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterIds.N	No	Array of String	List of IDs of clusters where the tasks to be queried reside
TaskIds.N	No	Array of String	List of IDs of tasks to be queried
Filters.N	No	Array of Filter	Filter. Valid values: Content, TaskType, Operator, Time
Offset	No	Integer	Query list offset

Limit	No	Integer	Number of returned results in query list
-------	----	---------	--

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of tasks
TaskInfos	Array of TaskInfoNew	List of details of queried tasks
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the task list

This example shows you how to query task details by specifying task IDs.

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=DescribeTasks
&ClusterIds.0=5674209986
&Offset=3
&Limit=3
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "72fc70ce-2396-4b8e-ac54-9bce72058da1",
    "TaskInfos": [
      {
        "ClusterName": "gz test PROTO",
        "ClusterId": "5674209986",
        "Content": "20548499 modify quotas table(tb_example) of Cluster(5674209986) Table Group(101), InstanceId tcaplus-1f224454, Storage Layer Expand: volume[1 -> 2], owner 20548499",
        "Operator": "20548499",

```

```
"Progress": 0,
"StartTime": "2019-08-30 18:16:50",
"TaskId": "5674209986-1202",
"TaskType": "ModifyTableQuotas",
"TransId": "0",
"UpdateTime": "2019-08-30 18:16:50"
},
{
"ClusterName": "gz test PROTO",
"ClusterId": "5674209986",
"Content": "20548499 modify table(tb_example)'s structure of Cluster(5674209986)
TableGroup(101), InstanceId tcaplus-1f224454, owner 20548499",
"Operator": "20548499",
"Progress": 100,
"StartTime": "2019-08-30 18:02:50",
"TaskId": "5674209986-1200",
"TaskType": "ModifyTables",
"TransId": "558",
"UpdateTime": "2019-08-30 18:02:51"
},
{
"ClusterName": "gz test PROTO",
"ClusterId": "5674209986",
"Content": "20548499 clear table(tb_example) of Cluster(5674209986) TableGroup(10
1), InstanceId tcaplus-1f224454, owner 20548499",
"Operator": "20548499",
"Progress": 0,
"StartTime": "2019-08-30 17:34:07",
"TaskId": "5674209986-1199",
"TaskType": "ClearTables",
"TransId": "557",
"UpdateTime": "2019-08-30 17:34:07"
}
],
"TotalCount": 19
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.

DescribeRegions

最近更新时间：2023-09-19 17:36:52

1. API Description

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

This API is used to query the list of regions supported by the TcaplusDB service.

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: DescribeRegions.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of queried AZs
RegionInfos	Array of RegionInfo	List of AZ query results

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

4. Example

Example1 Obtaining the region list

This example shows you how to obtain the region list.

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "RegionInfos": [
      {
        "RegionAbbr": "sh",
        "RegionId": 4,
        "RegionName": "Shanghai",
        "Ipv6Enable": "1"
      },
      {
        "RegionAbbr": "gz",
        "RegionId": 1,
        "RegionName": "Guangzhou",
        "Ipv6Enable": "0"
      },
      {
        "RegionAbbr": "hk",
        "RegionId": 5,
        "RegionName": "Hongkong",
        "Ipv6Enable": "1"
      }
    ],
    "RequestId": "b64fa31b-a0ca-4a06-82e9-211d610ba516",
  }
}
```

```
"TotalCount": 3
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.

EnableRestProxy

最近更新时间：2023-09-19 17:36:52

1. API Description

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

This API is used to enable the RESTful API.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: EnableRestProxy.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The value is the same as <code>appid</code> .

3. Output Parameters

Parameter Name	Type	Description
RestProxyStatus	Integer	RestProxy status. Valid values: 0 (disabled), 1 (enabling), 2 (enabled), 3

		(disabling).
TaskId	String	<code>TaskId</code> is in the format of <code>AppInstanceId-taskId</code> , used to identify tasks of different clusters.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enabling the RESTful API

This example shows how to enable the RESTful API by specifying the `ClusterId` .

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=EnableRestProxy
&ClusterId=5674209986
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RestProxyStatus": 1,
    "RequestId": "request-xxx123",
    "TaskId": "838418134-44"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InvalidAppName	Invalid cluster name
InvalidParameterValue.InvalidClusterName	Invalid cluster name.
InvalidParameterValue.InvalidTableGroupName	Invalid table group name.
InvalidParameterValue.InvalidTimeValue	Invalid time format.
InvalidParameterValue.InvalidZoneName	Invalid AZ name
InvalidParameterValue.UnsupportIdlType	Unsupported application data description type.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

DisableRestProxy

最近更新时间：2023-09-19 17:36:52

1. API Description

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

This API is used to disable the RESTful API.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DisableRestProxy.
Version	Yes	String	Common Params . The value used for this API: 2019-08-23.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The value is the same as <code>appid</code> .

3. Output Parameters

Parameter Name	Type	Description
RestProxyStatus	Integer	RestProxy status. Valid values: 0 (disabled), 1 (enabling), 2 (enabled), 3

		(disabling).
TaskId	String	<code>TaskId</code> is in the format of <code>AppInstanceId-taskId</code> , used to identify tasks of different clusters.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Disabling the RESTful API

This example shows how to disable the RESTful API by specifying the `ClusterId` .

Input Example

```
https://tcaplusdb.tencentcloudapi.com/?Action=DisableRestProxy
&ClusterId=5674209986
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RestProxyStatus": 3,
    "RequestId": "request-xxx123",
    "TaskId": "838418134-44"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
AuthFailure.UnauthorizedOperation	API operation authentication error.
FailedOperation	Operation failed.
InternalServerError	Internal error.
ResourceNotFound	The resource does not exist.

Data Types

最近更新时间：2023-05-04 10:30:35

ApplyResult

Application update results

Used by actions: UpdateApply.

Name	Type	Description
ApplicationId	String	Application ID
ApplicationType	Integer	Application type
ApplicationStatus	Integer	Status. Valid values: <code>0</code> (pending approval), <code>1</code> (application approved and task submitted), <code>2</code> (rejected) Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
TaskId	String	ID of the submitted task Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Error	ErrorInfo	Error information Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

ApplyStatus

Application ID and status

Used by actions: UpdateApply.

Name	Type	Required	Description
ApplicationId	String	Yes	Value format: cluster ID-application ID
ApplicationStatus	Integer	Yes	Status. Valid values: <code>-1</code> (canceled), <code>0</code> (pending approval), <code>1</code> (application approved and task submitted), <code>2</code> (rejected). Only applications in the pending approval status can be updated.

ApplicationType	Integer	Yes	Application type
ClusterId	String	Yes	Cluster ID

BackupExpireRuleInfo

The details of backup retention policy

Policy for cluster: `ClusterId` = cluster ID, `TableGroupId` = -1, `TableName` = -1.

Policy for cluster + table group: `ClusterId` = cluster ID, `TableGroupId` = table group ID, `TableName` = -1.

Policy for cluster + table group + table: `ClusterId` = cluster ID, `TableGroupId` = table group ID, `TableName` = table name.

For `FileTag`, valid values: 0 (txh engine file), 1 (ulog file). When `FileTag` is set to 1, `TableGroupId` = -1 and `TableName` = -1 remain unchanged.

`ExpireDay` is an integer number falling in the range of 1 (inclusive) to 999 (exclusive).

For `OperType`, valid values: 0 (Add), 1 (Delete), 2 (Modify). The values 0 and 2 can be mixed, and the backend implementation is compatible.

Used by actions: SetBackupExpireRule.

Name	Type	Required	Description
TableGroupId	String	Yes	The ID of the table group where the table resides
TableName	String	Yes	Table name
FileTag	Integer	Yes	file tag, which is described above.
ExpireDay	Integer	Yes	Retention days, which is described above.
OperType	Integer	Yes	Operation type, which is described above.

BackupRecords

Backup records

When it is used as an output parameter, each field will be filled.

When it is used as an input parameter, each field will be filled back into the structure as it is. This API can only be called if `FileTag` = `OSDATA`.

Used by actions: DeleteBackupRecords, DescribeBackupRecords.

Name	Type	Required	Description
Zoneld	Integer	Yes	Table group ID
TableName	String	Yes	Table name
BackupType	String	Yes	Backup source
FileTag	String	Yes	File tag: TCAPLUS_FULL or OSDATA
ShardCount	Integer	Yes	Number of shards
BackupBatchTime	String	Yes	Backup batch date
BackupFileSize	Integer	Yes	Total size of backup files
BackupSuccRate	String	Yes	Backup success rate
BackupExpireTime	String	Yes	Backup file expiration time
Appld	Integer	Yes	Business ID

ClusterInfo

Cluster details

Used by actions: DescribeClusters.

Name	Type	Description
ClusterName	String	Cluster name
ClusterId	String	Cluster ID
Region	String	Cluster region
IdlType	String	Cluster data description language type, such as <code>PROTO</code> , <code>TDR</code> , or <code>MIX</code>
NetworkType	String	Network type
VpcId	String	ID of the VPC instance with which a cluster is associated
SubnetId	String	ID of the subnet instance with which a cluster is

		associated
CreatedTime	Timestamp	Creation time
Password	String	Cluster password
PasswordStatus	String	Password status
ApiAccessId	String	TcaplusDB SDK connection parameter: access ID
ApiAccessIp	String	TcaplusDB SDK connection parameter: access address
ApiAccessPort	Integer	TcaplusDB SDK connection parameter: access port
OldPasswordExpireTime	String	<p>If <code>PasswordStatus</code> is <code>unmodifiable</code>, the old password has not expired, and this field will display its expiration time; otherwise, this field will be empty</p> <p>Note: this field may return null, indicating that no valid values can be obtained.</p>
ApiAccessIpv6	String	<p>TcaplusDB SDK connection parameter for accessing IPv6 addresses</p> <p>Note: this field may return null, indicating that no valid values can be obtained.</p>
ClusterType	Integer	<p>Cluster type. Valid values: <code>0</code> and <code>1</code> (shared cluster), <code>2</code> (dedicated cluster).</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
ClusterStatus	Integer	<p>Cluster status. Valid values: <code>0</code> (Running), <code>1</code> (Isolated. This status is caused by overdue payments), <code>2</code> (To be repossessed. This status is caused when the cluster is actively deleted.), <code>3</code> (To be released. The resources occupied by the table can be released in this status.), <code>4</code> (Modifying).</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
ReadCapacityUnit	Integer	<p>Read CU</p> <p>Note: this field may return <code>null</code>, indicating that no valid values can be obtained.</p>
WriteCapacityUnit	Integer	Write CU

		Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
DiskVolume	Integer	Disk capacity Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ServerList	Array of ServerDetailInfo	Information of the machine at the storage layer (tcapsvr) in a dedicated cluster Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ProxyList	Array of ProxyDetailInfo	Information of the machine at the access layer (tcaproxy) in a dedicated cluster Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Censorship	Integer	Whether the cluster operation approval feature is enabled. Valid values: <code>0</code> (disabled), <code>1</code> (enabled)
DbuUins	Array of String	Approver UIN list Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
DataFlowStatus	Integer	Whether data subscription is enabled Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
KafkaInfo	KafkaInfo	CKafka information when data subscription is enabled Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
TxhBackupExpireDay	Integer	The number of days after which the cluster Txh backup file will expire and be deleted. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
UlogBackupExpireDay	Integer	The number of days after which the cluster Ulog backup file will expire and be deleted. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
IsReadOnlyUlogBackupExpireDay	Integer	Whether the expiration policy of cluster Ulog backup file is read-only. <code>0</code> : Yes; <code>1</code> : No. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

RestProxyStatus	Integer	restproxy Status Note: This field may return null, indicating that no valid values can be obtained.
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CompareTablesInfo

Compare the meta information of two tables

Used by actions: MergeTablesData.

Name	Type	Required	Description
SrcTableClusterId	String	Yes	Cluster ID of the source table
SrcTableGroupId	String	Yes	Table group ID of the source table
SrcTableName	String	Yes	Source table name
DstTableClusterId	String	Yes	Cluster ID of the target table
DstTableGroupId	String	Yes	Table group ID of the target table
DstTableName	String	Yes	Target table name
SrcTableInstanceId	String	Yes	Source table ID
DstTableInstanceId	String	Yes	Target table ID

ErrorInfo

Describes the details of errors that may occur during the processing of each instance (application, region, or table).

Used by actions: ClearTables, CompareIdlFiles, CreateSnapshots, CreateTable, DeleteIdlFiles, DeleteSnapshots, DeleteTableDataFlow, DeleteTableIndex, DeleteTables, DescribeClusterTags, DescribeSnapshots, DescribeTableGroupTags, DescribeTableTags, DescribeTables, DescribeTablesInRecycle, MergeTablesData, ModifySnapshots, ModifyTableMemos, ModifyTableQuotas, ModifyTableTags, ModifyTables, RecoverRecycleTables, RollbackTables, SetTableDataFlow, SetTableIndex, UpdateApply, VerifyIdlFiles.

Name	Type	Description
Code	String	Error code

Message	String	Error message
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FieldInfo

The list of table field information

Used by actions: SetTableDataFlow, SetTableIndex.

Name	Type	Required	Description
FieldName	String	Yes	Table field name
IsPrimaryKey	String	Yes	Whether it is a primary key field
FieldType	String	No	Field type
FieldSize	Integer	No	Field length

Filter

Filter

Used by actions: DescribeClusters, DescribeTableGroups, DescribeTables, DescribeTablesInRecycle, DescribeTasks.

Name	Type	Required	Description
Name	String	Yes	Filter field name
Value	String	No	Filter field value
Values	Array of String	No	Filter field value

IdlFileInfo

Table definition file details, including file content

Used by actions: CompareIdlFiles, CreateTable, DeleteIdlFiles, DescribeIdlFileInfos, DescribeTables, DescribeTablesInRecycle, ModifyTables, VerifyIdlFiles.

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

FileName	String	Yes	Filename excluding extension
FileType	String	Yes	Data interface description language (IDL) type
FileExtType	String	Yes	File extension
FileSize	Integer	Yes	File size in bytes
FileId	Integer	No	File ID, which is meaningful for files already uploaded Note: this field may return null, indicating that no valid values can be obtained.
FileContent	String	No	File content, which is meaningful for files to be uploaded in this request Note: this field may return null, indicating that no valid values can be obtained.

IdFileInfoWithoutContent

Table definition file details, excluding file content

Used by actions: DeleteIdFiles.

Name	Type	Description
FileName	String	Filename excluding extension Note: this field may return null, indicating that no valid values can be obtained.
FileType	String	Data interface description language (IDL) type Note: this field may return null, indicating that no valid values can be obtained.
FileExtType	String	File extension Note: this field may return null, indicating that no valid values can be obtained.
FileSize	Integer	File size in bytes Note: this field may return null, indicating that no valid values can be obtained.
FileId	Integer	File ID Note: this field may return null, indicating that no valid values can be obtained.
Error	ErrorInfo	Error message Note: this field may return null, indicating that no valid values can be obtained.

KafkaInfo

CKafka address

Used by actions: DescribeClusters, SetTableDataFlow, SetTableIndex.

Name	Type	Required	Description
Address	String	Yes	CKafka address
Topic	String	Yes	CKafka topic
User	String	Yes	CKafka username
Password	String	Yes	CKafka password
Instance	String	Yes	CKafka instance
IsVpc	Integer	Yes	Whether VPC access is enabled

KeyFile

The file of keys used to import partial snapshot data

Used by actions: ImportSnapshots.

Name	Type	Required	Description
FileName	String	Yes	Key file name
FileExtType	String	Yes	Key file extension
FileContent	String	Yes	Key file content
FileSize	Integer	No	Key file size

MachineInfo

Machine type and quantity

Used by actions: CreateCluster, ModifyClusterMachine.

Name	Type	Required	Description
MachineType	String	Yes	Machine type

MachineNum	Integer	Yes	Machine quantity
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MergeTableResult

Table merging results

Used by actions: MergeTablesData.

Name	Type	Description
TaskId	String	Task ID Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Error	ErrorInfo	If table merging is successful, <code>null</code> will be returned Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Table	CompareTablesInfo	Comparison results of tables
ApplicationId	String	Application ID Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

MergeTablesInfo

Request parameters used to merge tables

Used by actions: MergeTablesData.

Name	Type	Required	Description
MergeTables	CompareTablesInfo	Yes	Information of tables to be merged
CheckIndex	Boolean	Yes	Whether to check indexes

ParsedTableInfoNew

Table information parsed from IDL table description file

Used by actions: CompareIdlFiles, VerifyIdlFiles.

Name	Type	Description
TableIdType	String	Table description language type. Valid values: PROTO, TDR Note: this field may return null, indicating that no valid values can be obtained.
TableInstanceId	String	Table instance ID Note: this field may return null, indicating that no valid values can be obtained.
TableName	String	Table name Note: this field may return null, indicating that no valid values can be obtained.
TableType	String	Table data structure type. Valid values: GENERIC, LIST Note: this field may return null, indicating that no valid values can be obtained.
KeyFields	String	Primary key field information Note: this field may return null, indicating that no valid values can be obtained.
OldKeyFields	String	Old primary key field information, which is valid during verification of table modification Note: this field may return null, indicating that no valid values can be obtained.
ValueFields	String	Non-primary key field information Note: this field may return null, indicating that no valid values can be obtained.
OldValueFields	String	Old non-primary key field information, which is valid during verification of table modification Note: this field may return null, indicating that no valid values can be obtained.
TableGroupId	String	Table group ID Note: this field may return null, indicating that no valid values can be obtained.
SumKeyFieldSize	Integer	Total size of primary key field Note: this field may return null, indicating that no valid values can be obtained.
SumValueFieldSize	Integer	Total size of non-primary key fields Note: this field may return null, indicating that no valid values can be obtained.

IndexKeySet	String	Index key set Note: this field may return null, indicating that no valid values can be obtained.
ShardingKeySet	String	Shardkey set Note: this field may return null, indicating that no valid values can be obtained.
TdrVersion	Integer	TDR version number Note: this field may return null, indicating that no valid values can be obtained.
Error	ErrorInfo	Error message Note: this field may return null, indicating that no valid values can be obtained.
ListElementNum	Integer	Number of LIST-type table elements Note: this field may return null, indicating that no valid values can be obtained.
SortFieldNum	Integer	Number of SORTLIST-type table sort fields Note: this field may return null, indicating that no valid values can be obtained.
SortRule	Integer	Sort order of SORTLIST-type tables Note: this field may return null, indicating that no valid values can be obtained.

PoolInfo

Information of the machines in the resource pool

Used by actions: DescribeMachine.

Name	Type	Description
PoolUid	Integer	Unique ID
Ipv6Enable	Integer	Whether IPv6 is supported
AvailableAppCount	Integer	Remaining available cluster resources
ServerList	Array of ServerMachineInfo	The list of machines at the storage layer (tcapsvr)
ProxyList	Array of ProxyMachineInfo	The list of machines at the access layer (tcaproxy)

ProxyDetailInfo

Information of the machine at the access layer (tcaproxy) in a dedicated cluster

Used by actions: DescribeClusters.

Name	Type	Description
ProxyUid	String	The unique ID of the access layer (tcaproxy)
MachineType	String	Machine type
ProcessSpeed	Integer	The speed of processing request packets
AverageProcessDelay	Integer	Request packet delay
SlowProcessSpeed	Integer	The speed of processing delayed request packets
Version	String	Version Note: This field may return null, indicating that no valid values can be obtained.

ProxyMachineInfo

Information of the machine at the access layer (tcaproxy)

Used by actions: DescribeMachine.

Name	Type	Description
ProxyUid	String	Unique ID
MachineType	String	Machine type
AvailableCount	Integer	The number of proxy resources to be assigned

RegionInfo

TcaplusDB service region details

Used by actions: DescribeRegions.

Name	Type	Description
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RegionName	String	Region <code>Ap-code</code>
RegionAbbr	String	Region abbreviation
RegionId	Integer	Region ID
Ipv6Enable	Integer	Whether to support IPv6 address access. Valid values: 0 (support), 1 (not support)

SelectedTableInfoNew

Information of selected table

Used by actions: ClearTables, CompareIdFiles, CreateBackup, CreateTables, DeleteTableDataFlow, DeleteTableIndex, DeleteTables, DescribeSnapshots, DescribeTableTags, DescribeTables, ModifyTableMemos, ModifyTableQuotas, ModifyTableTags, ModifyTables, RecoverRecycleTables, RollbackTables.

Name	Type	Required	Description
TableGroupId	String	Yes	ID of the table group where a table resides
TableName	String	Yes	Table name
TableInstanceId	String	No	Table instance ID
TableIdType	String	No	Table description language type. Valid values: PROTO, TDR
TableType	String	No	Table data structure type. Valid values: GENERIC, LIST
ListElementNum	Integer	No	Number of LIST-type table elements
ReservedVolume	Integer	No	Reserved table capacity in GB
ReservedReadQps	Integer	No	Reserved table read QPS
ReservedWriteQps	Integer	No	Reserved table write QPS
Memo	String	No	Table remarks
FileName	String	No	Key rollback filename, which is only used for rollback
FileExtType	String	No	Key rollback file extension, which is only used for rollback
FileSize	Integer	No	Key rollback file size, which is only used for rollback
FileContent	String	No	Key rollback file content, which is only used for rollback

SelectedTableWithField

The list of tables to which the specified fields belong

Used by actions: SetTableDataFlow, SetTableIndex.

Name	Type	Required	Description
TableGroupId	String	Yes	ID of the table group where the table resides
TableName	String	Yes	Table name
TableInstanceId	String	No	Table ID
TableIdlType	String	No	Table description language. Valid values: <code>PROTO</code> , <code>TDR</code>
TableType	String	No	Table data structure. Valid values: <code>GENERIC</code> , <code>LIST</code>
SelectedFields	Array of FieldInfo	No	The list of fields on which indexes will be created, table caching enabled, or data subscription enabled
ShardNum	Integer	No	The number of index shards
KafkaInfo	KafkaInfo	No	CKafka instance information

ServerDetailInfo

Information of the machine at the storage layer (tcapsvr) in a dedicated cluster

Used by actions: DescribeClusters.

Name	Type	Description
ServerUid	String	The unique ID of the storage layer (tcapsvr)
MachineType	String	Machine type
MemoryRate	Integer	Memory utilization
DiskRate	Integer	Disk utilization
ReadNum	Integer	The number of reads
WriteNum	Integer	The number of writes
Version	String	Version

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

ServerMachineInfo

`ServerList` , the list of machines at the storage layer (tcapsvr)

Used by actions: DescribeMachine.

Name	Type	Description
ServerUid	String	The unique ID of the machine
MachineType	String	Machine type

SnapshotInfo

Snapshot list

Used by actions: CreateSnapshots, ImportSnapshots.

Name	Type	Required	Description
TableGroupId	String	Yes	The ID of the table group where the table resides
TableName	String	Yes	Table name
SnapshotName	String	Yes	Snapshot name
SnapshotTime	Timestamp	Yes	The time of the data from which the snapshot was created
SnapshotDeadTime	Timestamp	Yes	Snapshot expiration time

SnapshotInfoNew

New expiration time of a snapshot

Used by actions: DeleteSnapshots, ModifySnapshots.

Name	Type	Required	Description
TableGroupId	String	Yes	The ID of the table group where the table resides

TableName	String	Yes	Table name
SnapshotName	String	Yes	Snapshot name
SnapshotDeadTime	Timestamp	No	Snapshot expiration time

SnapshotResult

The result of snapshot creation

Used by actions: CreateSnapshots, DeleteSnapshots, DescribeSnapshots, ModifySnapshots.

Name	Type	Description
TableGroupId	String	The ID of the table group where the table resides Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
TableName	String	Table name Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
TaskId	String	Task ID, which is valid for the API that creates one task at a time Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
Error	ErrorInfo	Error information Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
SnapshotName	String	Snapshot name Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
SnapshotTime	Timestamp	The time of the data from which the snapshot was created Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
SnapshotDeadTime	Timestamp	When the snapshot expires Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
SnapshotCreateTime	Timestamp	When the snapshot was created Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

SnapshotSize	Integer	Snapshot size Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.
SnapshotStatus	Integer	Snapshot status. Valid values: <code>0</code> (creating), <code>1</code> (normal), <code>2</code> (deleting), <code>3</code> (expired), <code>4</code> (rolling back). Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

SyncTableField

Mapping of cache table field name

Used by actions: DescribeTables, DescribeTablesInRecycle.

Name	Type	Required	Description
SourceName	String	Yes	Field name of TcaplusDB table
TargetName	String	Yes	Field name of the target cache table

SyncTableInfo

TcaplusDB cache table information

Used by actions: DescribeTables, DescribeTablesInRecycle.

Name	Type	Description
TargetTableSplitNum	Integer	Sharded table quantity of the target cache table
TargetTableNamePrefix	Array of String	Prefix of the target cache table name
TargetSyncDBInstanceId	String	Instance ID of the cache database
TargetDatabaseName	String	Name of the database where the cache table resides
Status	Integer	Caching status. Valid values: <code>0</code> (creating), <code>1</code> (caching), <code>2</code> (disabled), <code>-1</code> (deleted).
ClusterId	String	ID of cluster where the table resides
TableGroupId	Integer	The ID of the table group where the table resides

TableName	String	Table name
TableId	String	Table ID
KeyFieldMapping	Array of SyncTableField	Mapping from the primary key field of the TcaplusDB table to the field of the target cache table
ValueFieldMapping	Array of SyncTableField	Mapping of TcaplusDB table field to target cache table field

TableGroupInfo

Table group details

Used by actions: DescribeTableGroups.

Name	Type	Description
TableGroupId	String	Table group ID
TableGroupName	String	Table group name
CreatedTime	Timestamp	Table group creation time
TableCount	Integer	Number of tables in table group
TotalSize	Integer	Total table storage capacity in MB in table group
TxhBackupExpireDay	Integer	The number of days before the backup files of the Txh tables expire and are deleted. Note: This field may return null, indicating that no valid values can be obtained.
EnableMysql	Integer	Whether MySQL load rebalancing is enabled. Valid values: <code>0</code> (Disabled), <code>1</code> (Enabling), <code>2</code> (Enabled).
MysqlConnIp	String	MySQL load rebalancing vip Note: This field may return null, indicating that no valid values can be obtained.
MysqlConnPort	Integer	MySQL load rebalancing vport Note: This field may return null, indicating that no valid values can be obtained.

TableInfoNew

Table details

Used by actions: DescribeTables, DescribeTablesInRecycle.

Name	Type	Description
TableName	String	Table name Note: this field may return null, indicating that no valid values can be obtained.
TableInstanceId	String	Table instance ID Note: this field may return null, indicating that no valid values can be obtained.
TableType	String	Table data structure type, such as <code>GENERIC</code> or <code>LIST</code> Note: this field may return null, indicating that no valid values can be obtained.
TableIdlType	String	Table data interface description language (IDL) type, such as <code>PROTO</code> or <code>TDR</code> Note: this field may return null, indicating that no valid values can be obtained.
ClusterId	String	ID of the cluster where a table resides Note: this field may return null, indicating that no valid values can be obtained.
ClusterName	String	Name of the cluster where a table resides Note: this field may return null, indicating that no valid values can be obtained.
TableGroupId	String	ID of the table group where a table resides Note: this field may return null, indicating that no valid values can be obtained.
TableGroupName	String	Name of the table group where a table resides Note: this field may return null, indicating that no valid values can be obtained.
KeyStruct	String	JSON string of table's primary key field structure Note: this field may return null, indicating that no valid values can be obtained.
ValueStruct	String	JSON string of table non-primary key field structure Note: this field may return null, indicating that no valid values can be

		obtained.
ShardingKeySet	String	Table shardkey set, which is valid for PROTO-type tables Note: this field may return null, indicating that no valid values can be obtained.
IndexStruct	String	Table index key field set, which is valid for PROTO-type tables Note: this field may return null, indicating that no valid values can be obtained.
ListElementNum	Integer	Number of LIST-type table elements Note: this field may return null, indicating that no valid values can be obtained.
IdlFiles	Array of IdlFileInfo	Information list of IDL files associated with table Note: this field may return null, indicating that no valid values can be obtained.
ReservedVolume	Integer	Reserved table capacity in GB Note: this field may return null, indicating that no valid values can be obtained.
ReservedReadQps	Integer	Reserved table read QPS Note: this field may return null, indicating that no valid values can be obtained.
ReservedWriteQps	Integer	Reserved table write QPS Note: this field may return null, indicating that no valid values can be obtained.
TableSize	Integer	Actual table data size in MB Note: this field may return null, indicating that no valid values can be obtained.
Status	String	Table status Note: this field may return null, indicating that no valid values can be obtained.
CreatedTime	String	Table creation time Note: this field may return null, indicating that no valid values can be obtained.
UpdatedTime	String	Table's last modified time Note: this field may return null, indicating that no valid values can be obtained.
Memo	String	Table remarks Note: this field may return null, indicating that no valid values can be

		obtained.
Error	ErrorInfo	Error message Note: this field may return null, indicating that no valid values can be obtained.
ApiAccessId	String	TcaplusDB SDK data access ID Note: this field may return null, indicating that no valid values can be obtained.
SortFieldNum	Integer	Number of SORTLIST-type table sort fields Note: this field may return null, indicating that no valid values can be obtained.
SortRule	Integer	Sort order of SORTLIST-type tables Note: this field may return null, indicating that no valid values can be obtained.
DbClusterInfoStruct	String	Information about global indexes, table caching, or data subscription Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
TxhBackupExpireDay	Integer	The number of days after which the table Txh backup files will be expire and deleted. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
SyncTableInfo	SyncTableInfo	Cached information of the table Note: This field may return null, indicating that no valid values can be obtained.

TableResultNew

Table processing result information

Used by actions: ClearTables, CreateTables, DeleteTableDataFlow, DeleteTableIndex, DeleteTables, ModifyTableMemos, ModifyTableQuotas, ModifyTableTags, ModifyTables, RecoverRecycleTables, SetTableDataFlow, SetTableIndex.

Name	Type	Description
TableInstanceId	String	Table instance ID in the format of <code>tcaplus-3be64cbb</code> Note: this field may return null, indicating that no valid values can be obtained.

TaskId	String	Task ID, which is valid for the API that creates one task Note: this field may return null, indicating that no valid values can be obtained.
TableName	String	Table name Note: this field may return null, indicating that no valid values can be obtained.
TableType	String	Table data structure type, such as <code>GENERIC</code> or <code>LIST</code> Note: this field may return null, indicating that no valid values can be obtained.
TableIdType	String	Table data interface description language (IDL) type, such as <code>PROTO</code> or <code>TDR</code> Note: this field may return null, indicating that no valid values can be obtained.
TableGroupId	String	ID of the table group where a table resides Note: this field may return null, indicating that no valid values can be obtained.
Error	ErrorInfo	Error message Note: this field may return null, indicating that no valid values can be obtained.
TaskIds	Array of String	Task ID list, which is valid for the API that creates multiple tasks Note: this field may return null, indicating that no valid values can be obtained.
ApplicationId	String	Cluster operation application ID Note: <code>null</code> may be returned for this field, indicating that no valid values can be obtained.

TableRollbackResultNew

Table rollback result information

Used by actions: RollbackTables.

Name	Type	Description
TableInstanceId	String	Table instance ID in the format of <code>tcaplus-3be64cbb</code> Note: this field may return null, indicating that no valid values can be obtained.

TaskId	String	Task ID, which is valid for the API that creates one task Note: this field may return null, indicating that no valid values can be obtained.
TableName	String	Table name Note: this field may return null, indicating that no valid values can be obtained.
TableType	String	Table data structure type, such as <code>GENERIC</code> or <code>LIST</code> Note: this field may return null, indicating that no valid values can be obtained.
TableIdType	String	Table data interface description language (IDL) type, such as <code>PROTO</code> or <code>TDR</code> Note: this field may return null, indicating that no valid values can be obtained.
TableGroupId	String	ID of the table group where a table resides Note: this field may return null, indicating that no valid values can be obtained.
Error	ErrorInfo	Error message Note: this field may return null, indicating that no valid values can be obtained.
TaskIds	Array of String	Task ID list, which is valid for the API that creates multiple tasks Note: this field may return null, indicating that no valid values can be obtained.
FileId	String	ID of uploaded key file Note: this field may return null, indicating that no valid values can be obtained.
SuccKeyNum	Integer	Number of keys successfully verified Note: this field may return null, indicating that no valid values can be obtained.
TotalKeyNum	Integer	Total number of keys contained in key file Note: this field may return null, indicating that no valid values can be obtained.

TagInfoUnit

Tag information unit

Used by actions: CreateCluster, CreateTableGroup, CreateTable, DescribeClusterTags, DescribeTableGroupTags, DescribeTableTags, ModifyClusterTags, ModifyTableGroupTags, ModifyTableTags.

Name	Type	Required	Description
TagKey	String	Yes	Tag key
TagValue	String	No	Tag value

TagsInfoOfCluster

Cluster tag information

Used by actions: DescribeClusterTags.

Name	Type	Description
ClusterId	String	Cluster ID
Tags	Array of TagInfoUnit	Tag information
Error	ErrorInfo	Error message

TagsInfoOfTable

Table tag information

Used by actions: DescribeTableTags.

Name	Type	Description
TableInstanceId	String	Table instance ID
TableName	String	Table name
TableGroupId	String	Table group ID
Tags	Array of TagInfoUnit	Tag information
Error	ErrorInfo	Error message

TagsInfoOfTableGroup

Table group tag information

Used by actions: DescribeTableGroupTags.

Name	Type	Description
ClusterId	String	Cluster ID
TableGroupId	String	Table group ID
Tags	Array of TagInfoUnit	Tag information
Error	ErrorInfo	Error message

TaskInfoNew

Task details

Used by actions: DescribeTasks.

Name	Type	Description
TaskId	String	Task ID
TaskType	String	Task type
TransId	String	ID of TcaplusDB internal transaction associated with task
ClusterId	String	ID of the cluster where a task resides
ClusterName	String	Name of the cluster where a task resides
Progress	Integer	Task progress
StartTime	Timestamp	Task creation time
UpdateTime	Timestamp	Task last modified time
Operator	String	Operator
Content	String	Task details

Error Codes

最近更新时间：2023-02-07 11:01:16

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.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

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

Service Error Codes

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.OldPasswordHasExpired	The old password has expired.
FailedOperation.OldPasswordInUse	The old password has not expired.
FailedOperation.PasswordFailure	Incorrect password.
FailedOperation.RegionMismatch	The requested region does not match.
InvalidParameterValue.InvalidAppName	Invalid cluster name
InvalidParameterValue.InvalidClusterName	Invalid cluster name.
InvalidParameterValue.InvalidTableGroupName	Invalid table group name.
InvalidParameterValue.InvalidTimeValue	Invalid time format.

InvalidParameterValue.InvalidZoneName	Invalid AZ name
InvalidParameterValue.UnsupportedIdlType	Unsupported application data description type.
OperationDenied	Operation denied.
ResourceInsufficient.BalanceError	Insufficient balance.
ResourceInsufficient.NoAvailableApp	No available cluster resources.
ResourceInsufficient.NoAvailableCluster	No cluster resources available.
ResourceInsufficient.NoEnoughVipInVPC	There are no VIP resources available in the VPC.
ResourceUnavailable.DuplicateClusterName	The cluster name already exists.
ResourceUnavailable.DuplicateTableGroupInfo	The table group ID or name already exists.
ResourceUnavailable.DuplicateTableGroupName	The table group name already exists.
ResourceUnavailable.NoAvailableTableGroup	No table group resources available.