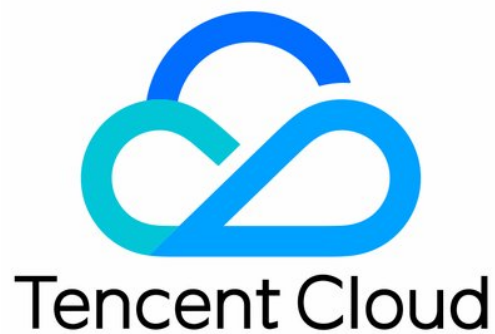


TencentDB for MariaDB

API Documentation

Product Documentation



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History

Last updated : 2023-09-05 10:26:28

Release 27

Release time: 2023-09-05 10:22:00

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeDBTmpInstances](#)

New data structures:

- [TmpInstance](#)

Release 26

Release time: 2023-06-21 15:53:33

Release updates:

Improvement to existing documentation.

New APIs:

- [UpgradeDedicatedDBInstance](#)

Modified APIs:

- [DescribeDBInstanceDetail](#)
 - New output parameters:ReservedNetResources, IsPhysicalReplicationSupported

New data structures:

- [ReservedNetResource](#)

Modified data structures:

- [DBAccount](#)
 - New members:MaxUserConnections

Release 25

Release time: 2023-04-18 11:00:11

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeBackupFiles](#)
- [DescribeDBInstanceDetail](#)

New data structures:

- [InstanceBackupFileItem](#)

Release 24

Release time: 2023-03-03 15:27:59

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyDBEncryptAttributes](#)

Release 23

Release time: 2023-02-10 10:45:31

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeDBEncryptAttributes](#)

Release 22

Release time: 2022-12-22 15:29:05

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateDBInstance](#)
- [KillSession](#)

Release 21

Release time: 2022-12-16 17:30:45

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribePrice](#)

New data structures:

- [DCNReplicaConfig](#)
- [DCNReplicaStatus](#)

Modified data structures:

- [DcnDetailItem](#)
 - New members: ReplicaConfig, ReplicaStatus, EncryptStatus

Release 20

Release time: 2022-11-17 10:13:47

Release updates:

Improvement to existing documentation.

New APIs:

- [IsolateDBInstance](#)
- [IsolateDedicatedDBInstance](#)
- [TerminateDedicatedDBInstance](#)

Release 19

Release time: 2022-11-11 15:31:51

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeLogFileRetentionPeriod](#)
- [ModifyInstanceNetwork](#)
- [ModifyInstanceVip](#)
- [ModifyInstanceVport](#)

Release 18

Release time: 2022-08-11 10:50:49

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateHourDBInstance](#)
 - New output parameters:FlowId

Modified data structures:

- [DBInstance](#)
 - New members:DbVersionId

Release 17

Release time: 2022-07-22 10:58:31

Release updates:

Improvement to existing documentation.

New APIs:

- [DestroyDBInstance](#)

Modified APIs:

- [CreateAccount](#)
 - New input parameters:SlaveConst, MaxUserConnections

Modified data structures:

- [DBAccount](#)
 - New members:SlaveConst

Release 16

Release time: 2022-06-17 17:22:55

Release updates:

Improvement to existing documentation.

New APIs:

- [CloneAccount](#)
- [DescribeAccountPrivileges](#)
- [DescribeAccounts](#)
- [DescribeDBParameters](#)
- [DescribeDBSlowLogs](#)
- [DescribeDatabaseObjects](#)
- [DescribeDatabaseTable](#)
- [DescribeDatabases](#)
- [DescribeOrders](#)
- [ModifyDBParameters](#)
- [ModifyDBSyncMode](#)

New data structures:

- [ConstraintRange](#)
- [DBAccount](#)
- [Database](#)
- [DatabaseFunction](#)
- [DatabaseProcedure](#)
- [DatabaseTable](#)
- [DatabaseView](#)
- [Deal](#)
- [ParamConstraint](#)
- [ParamDesc](#)
- [ParamModifyResult](#)
- [SlowLogData](#)
- [TableColumn](#)

Release 15

Release time: 2022-04-07 11:12:33

Release updates:

Improvement to existing documentation.

Deleted APIs:

- `ActivateHourDBInstance`
- `CloneAccount`
- `DescribeAccountPrivileges`
- `DescribeAccounts`
- `DescribeBackupTime`
- `DescribeDBParameters`
- `DescribeDBPerformance`
- `DescribeDBPerformanceDetails`
- `DescribeDBResourceUsage`
- `DescribeDBResourceUsageDetails`
- `DescribeDBSlowLogs`
- `DescribeDatabaseObjects`
- `DescribeDatabaseTable`
- `DescribeDatabases`
- `DescribeFlow`

- DescribeLogFileRetentionPeriod
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- ModifyDBInstanceName
- ModifyDBInstanceSecurityGroups
- ModifyDBParameters
- ModifyDBSyncMode
- ModifyLogFileRetentionPeriod
- OpenDBExtranetAccess
- SwitchDBInstanceHA

Deleted data structures:

- ConstraintRange
- DBAccount
- DBBackupTimeConfig
- Database
- DatabaseFunction
- DatabaseProcedure
- DatabaseTable
- DatabaseView
- MonitorData
- ParamConstraint
- ParamDesc
- ParamModifyResult
- PerformanceMonitorSet
- ResourceUsageMonitorSet
- SlowLogData
- TableColumn

Release 14

Release time: 2022-03-07 15:37:33

Release updates:

Improvement to existing documentation.

New APIs:

- [ActivateHourDBInstance](#)
- [DescribeDatabaseObjects](#)
- [IsolateHourDBInstance](#)

New data structures:

- [DatabaseFunction](#)
- [DatabaseProcedure](#)
- [DatabaseTable](#)
- [DatabaseView](#)

Release 13

Release time: 2022-02-18 11:34:20

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeDatabaseTable](#)

New data structures:

- [TableColumn](#)

Release 12

Release time: 2022-01-27 10:33:47

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateHourDBInstance](#)
- [SwitchDBInstanceHA](#)

Modified APIs:

- [DescribeProjectSecurityGroups](#)
 - New output parameters:Total

New data structures:

- [ResourceTag](#)

Modified data structures:

- [DBInstance](#)
 - New members:ResourceTags

Release 11

Release time: 2022-01-04 11:15:18

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeFileDownloadUrl](#)

Release 10

Release time: 2021-12-01 10:55:25

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyDBSyncMode](#)
- [ModifySyncTaskAttribute](#)

Modified data structures:

- [SlowLogData](#)
 - New members:Host

Release 9

Release time: 2021-08-02 11:40:53

Release updates:

Improvement to existing documentation.

New APIs:

- [CancelDcnJob](#)

Release 8

Release time: 2021-07-28 17:14:50

Release updates:

Improvement to existing documentation.

Modified data structures:

- [DcnDetailItem](#)
 - New members: Cpu, Memory, Storage, PayMode, CreateTime, PeriodEndTime, InstanceType

Release 7

Release time: 2021-06-25 10:34:19

Release updates:

Improvement to existing documentation.

New APIs:

- [DestroyHourDBInstance](#)
- [ModifyAccountPrivileges](#)

New data structures:

- [Account](#)
- [ColumnPrivilege](#)
- [DatabasePrivilege](#)
- [FunctionPrivilege](#)

- [ProcedurePrivilege](#)
- [TablePrivilege](#)
- [ViewPrivileges](#)

Release 6

Release time: 2021-06-10 11:30:40

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeDcnDetail](#)

Modified APIs:

- [DescribeDBInstances](#)
 - New input parameters: Status, ExcludeStatus

New data structures:

- [DcnDetailItem](#)

Release 5

Release time: 2021-05-17 15:08:03

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeInstanceNodeInfo](#)

New data structures:

- [NodeInfo](#)

Release 4

Release time: 2021-04-09 15:55:26

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeDBSecurityGroups](#)
 - New output parameters:VIP, VPort

Release 3

Release time: 2021-01-22 10:07:49

Release updates:

Improvement to existing documentation.

New APIs:

- [AssociateSecurityGroups](#)
- [DescribeDBSecurityGroups](#)
- [DescribeProjectSecurityGroups](#)
- [DisassociateSecurityGroups](#)
- [ModifyDBInstanceSecurityGroups](#)

New data structures:

- [SecurityGroup](#)
- [SecurityGroupBound](#)

Modified data structures:

- [DBInstance](#)
 - New members:InstanceType

Release 2

Release time: 2020-10-30 14:50:37

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeDBInstances](#)
 - New input parameters: TagKeys, FilterInstanceType

Modified data structures:

- [DBInstance](#)
 - New members: Ipv6Flag, VipV6, WanVipV6, WanPortIpv6, WanStatusIpv6, DbEngine, DbVersion, DcnFlag, DcnStatus, DcnDstNum

Existing Release

Release time: 2020-07-30 20:08:03

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [CloneAccount](#)
- [CloseDBExtranetAccess](#)
- [CopyAccountPrivileges](#)
- [CreateAccount](#)
- [DeleteAccount](#)
- [DescribeAccountPrivileges](#)
- [DescribeAccounts](#)
- [DescribeBackupTime](#)
- [DescribeDBInstances](#)
- [DescribeDBLogFiles](#)
- [DescribeDBParameters](#)
- [DescribeDBPerformance](#)
- [DescribeDBPerformanceDetails](#)
- [DescribeDBResourceUsage](#)
- [DescribeDBResourceUsageDetails](#)
- [DescribeDBSlowLogs](#)
- [DescribeDatabases](#)
- [DescribeFlow](#)
- [DescribeLogFileRetentionPeriod](#)
- [GrantAccountPrivileges](#)

- InitDBInstances
- [ModifyAccountDescription](#)
- ModifyBackupTime
- ModifyDBInstanceName
- [ModifyDBInstancesProject](#)
- [ModifyDBParameters](#)
- ModifyLogFileRetentionPeriod
- OpenDBExtranetAccess
- [ResetAccountPassword](#)

Existing data structures:

- [ConstraintRange](#)
- [DBAccount](#)
- DBBackupTimeConfig
- [DBInstance](#)
- [DBParamValue](#)
- [Database](#)
- [LogFileInfo](#)
- MonitorData
- [ParamConstraint](#)
- [ParamDesc](#)
- [ParamModifyResult](#)
- PerformanceMonitorSet
- ResourceUsageMonitorSet
- [SlowLogData](#)

Introduction

Last updated : 2022-07-22 11:00:21

Welcome to TencentDB for MariaDB. You can manage it by calling the APIs described in this document. Before using these APIs, you need to be familiar with the product and its billing mode.

Notes:

- All TencentDB for MariaDB APIs described here have been upgraded to API 3.0 and all new TencentDB for MariaDB features will be updated here. We recommend that you use API 3.0.
- Legacy APIs remain available, but will not be updated.

API Category

Last updated : 2023-09-05 10:26:28

Instance Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CancelDcnJob	Cancels DCN synchronization	20
CloseDBExtranetAccess	Disables public network access	20
CreateDBInstance	Creates a monthly subscribed TencentDB for MariaDB instance	20
CreateHourDBInstance	Creates a pay-as-you-go TencentDB for MariaDB instance	20
DescribeDBInstanceDetail	Queries the details of an instance	200
DescribeDBInstances	Queries instance list	200
DescribeDcnDetail	Queries the disaster recovery details of an instance	20
DescribeInstanceNodeInfo	Queries instance node information	20
DescribeOrders	Queries order information	20
DescribePrice	Queries the purchase price of an instance	20
DestroyDBInstance	Terminates an isolated monthly subscribed instance	20
DestroyHourDBInstance	Terminates a pay-as-you-go TencentDB for MariaDB instance	20
IsolateDBInstance	Isolates a monthly subscribed TencentDB for MariaDB instance	20
IsolateDedicatedDBInstance	Isolates a dedicated TencentDB instance	20
ModifyDBInstancesProject	Modifies the project to which instances	20

	belong	
ModifyInstanceNetwork	Modifies instance network	20
ModifyInstanceVip	Modifies instance VIP	20
ModifyInstanceVport	Modifies instance Vport	20
TerminateDedicatedDBInstance	Terminates the dedicated TencentDB instance	20
UpgradeDedicatedDBInstance	Upgrades the dedicated TencentDB instance	20

Security Group APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AssociateSecurityGroups	Associates security groups in batches	20
DescribeDBSecurityGroups	Queries the security group details of an instance	20
DescribeProjectSecurityGroups	Queries the security group details of a project	20
DisassociateSecurityGroups	Unassociates security groups in batches	20

Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeDBEncryptAttributes	Queries the encryption status of the instance data	20
DescribeDatabaseObjects	Queries database object list	20
DescribeDatabaseTable	Queries table information	20

DescribeDatabases	Queries database list	20
KillSession	Kills the specified session.	20
ModifyDBEncryptAttributes	Modifies the encryption attributes of the instance data	20
ModifySyncTaskAttribute	Modifies sync task attributes	20

Account APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CloneAccount	Clones instance account	20
CopyAccountPrivileges	Copies account permissions	20
CreateAccount	Creates account	20
DeleteAccount	Deletes account	20
DescribeAccountPrivileges	Queries account permissions	20
DescribeAccounts	Queries account list	20
GrantAccountPrivileges	Sets account permissions	20
ModifyAccountDescription	Modifies account remarks	20
ModifyAccountPrivileges	Modifies the permissions of a TencentDB instance account	20
ResetAccountPassword	Resets account password	20

Parameter Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeDBParameters	Views database parameters	20
DescribeLogFileRetentionPeriod	Views backup log retention days	20

ModifyDBParameters	Modifies database parameters	20
ModifyDBSyncMode	Modifies sync mode	20

Monitoring Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeDBSlowLogs	Queries slow query log list	20

Backup and Restoration APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeBackupFiles	Queries the list of backup files	20
DescribeDBLogFiles	Gets log list	20
DescribeDBTmpInstances	Obtains a temp u200drollback instance	20
DescribeFileDownloadUrl	Gets the backup/log download URL	20

Making API Requests

Request Structure

Last updated : 2023-03-03 15:53:51

1. Service Address

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

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

Last updated : 2023-03-03 15:53:51

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

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

Common parameters for Signature Algorithm v3

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

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

			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.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=37ac2f4fde00b0ac9bd9eadeb459b1bb224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

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

Example of an HTTP POST request structure:

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

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

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

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


Signature v3

Last updated : 2020-09-10 18:03:58

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty string for POST requests, and is the string after the question mark (?) for GET requests. For example: <code>Limit=10&Offset=0</code>. Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code>. Custom headers can be added to participate in the signature process to improve the uniqueness and security of the request. Concatenation rules: - Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format; - If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>. Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers. Concatenation rules: - Both the key and value of the header should be converted to lowercase; - If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is <code>content-type;host</code>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>

`[{"Values": ["unnamed"], "Name": "instance-name"}]` in this example
 The pseudocode for calculation is
 Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, `RequestPayload` is always an empty string. The calculation result in this example is
`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

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

POST

/

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

host:cvm.tencentcloudapi.com

content-type;host

`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in request header, which is the UNIX timestamp of the current time in seconds, such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; <code>service</code> is the product name, which should be the domain name of the product called. The calculation result in this example is <code>2018-05-25/cvm/tc3_request</code> .

HashedCanonicalRequest

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

```
2815843035062ffffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

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
2815843035062ffffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

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

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

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

2) Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

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

The following example shows a finished authorization header:

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

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

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

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

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

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



```

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

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

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

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

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

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

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

```

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

Python

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

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

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

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

```

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

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

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

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

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

```

Golang

```
package main

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

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

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

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

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

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

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

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

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

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

PHP

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

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

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

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

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

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

Ruby

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

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

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

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

```

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

puts canonical_request

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

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

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

puts 'curl -X POST ' + endpoint \

```



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

DotNet

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

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

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

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

```

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

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

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

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

```

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

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

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

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

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

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

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

NodeJS

```

const crypto = require('crypto');

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

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

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

function main(){

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

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

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

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

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

const canonicalRequest = httpRequestMethod + "\n"

```

```

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

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

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

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

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

```

C++

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

using namespace std;

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

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

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

```
}  
string HmacSha256(const string &key, const string &input)  
{  
    unsigned char hash[32];  
  
    HMAC_CTX *h;  
    #if OPENSSL_VERSION_NUMBER < 0x10100000L  
    HMAC_CTX hmac;  
    HMAC_CTX_init(&hmac);  
    h = &hmac;  
    #else  
    h = HMAC_CTX_new();  
    #endif  
  
    HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);  
    HMAC_Update(h, ( unsigned char* )&input[0], input.length());  
    unsigned int len = 32;  
    HMAC_Final(h, hash, &len);  
  
    #if OPENSSL_VERSION_NUMBER < 0x10100000L  
    HMAC_CTX_cleanup(h);  
    #else  
    HMAC_CTX_free(h);  
    #endif  
  
    std::stringstream ss;  
    ss << std::setfill('0');  
    for (int i = 0; i < len; i++)  
    {  
        ss << hash[i];  
    }  
  
    return (ss.str());  
}  
string HexEncode(const string &input)  
{  
    static const char* const lut = "0123456789abcdef";  
    size_t len = input.length();  
  
    string output;  
    output.reserve(2 * len);  
    for (size_t i = 0; i < len; ++i)  
    {  
        const unsigned char c = input[i];  
        output.push_back(lut[c >> 4]);  
        output.push_back(lut[c & 15]);  
    }  
}
```

```

return output;
}

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

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

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

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

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

```



```

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

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

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

```

Signature Failure

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

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

Signature

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

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

1. Applying for Security Credentials

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

Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";
    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlgorithm());
        mac.init(secretKeySpec);
        byte[] hash = mac.doFinal(s.getBytes(CHARSET));
        return DatatypeConverter.printBase64Binary(hash);
    }

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // When signing, the parameters need to be sorted in lexicographical order. TreeMap
        // is used here to guarantee the correct order.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
        StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
        // There is no requirement for the order of the parameters in the actual request
        // URL.
        for (String k : params.keySet()) {
            // The request string needs to be URL encoded. As the Key is all in English letters,
            // only the value is URL encoded here.
            url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
        }
    }
}
```

```

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

```

Python

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

```

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

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

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

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

```



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

Golang

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

```

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

```

PHP

```

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

Last updated : 2020-04-23 18:36:33

Response for Successful Requests

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

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

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

Response for Failed Requests

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

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


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

Common Error Codes

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

Error Code	Description
<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.

Instance Management APIs

UpgradeDedicatedDBInstance

Last updated : 2023-09-05 10:26:28

1. API Description

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

This API is used to expand the dedicated TencentDB instance.

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: UpgradeDedicatedDBInstance.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	ID of the instance to be upgraded. It is in the form of <code>tdsql-ow728lmc</code> , which can be obtained by querying the instance details through the <code>DescribeDBInstances</code> API.
Memory	Yes	Integer	Memory size in GB, which can be obtained through the <code>DescribeFenceDBInstanceSpecs</code> API.
Storage	Yes	Integer	Storage space size in GB. You can obtain the disk space limits by

			querying instance specification through the <code>DescribeDBInstanceSpecs</code> API.
SwitchAutoRetry	No	Integer	Whether to retry again when missing the switch time window. Valid values: <code>0</code> (no), <code>1</code> (yes).
SwitchStartTime	No	String	Switch start time
SwitchEndTime	No	String	Switch end time

3. Output Parameters

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

4. Example

Example1 None

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyAccountPrivileges&InstanceId=tdsql-f35wr6wj&Accounts.0.User=ajnnw&GlobalPrivileges.0=SELECT&Accounts.0.Host=127.0.0.1&<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "14f6980a-7fe1-11ea-b896-525400542aa6",
    "FlowId": 1122
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateFlowFailed	Failed to create the flow.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.IllegalExclusterID	The dedicated cluster to which the database instance belongs was not found.
InvalidParameterValue.SpecIdIllegal	The specification information of the database instance was not found.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.

ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.InvalidOperation	The operation is not supported.

ModifyBackupTime

Last updated : 2022-01-27 10:36:37

1. API Description

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

This API is used to set the backup time of a TencentDB instance. The backend system will perform instance backup regularly according to this configuration.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: ModifyBackupTime.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
StartBackupTime	Yes	String	Start time of daily backup window in the format of <code>mm:ss</code> , such as 22:00

EndBackupTime	Yes	String	End time of daily backup window in the format of <code>mm:ss</code> , such as 23:59
---------------	-----	--------	---

3. Output Parameters

Parameter Name	Type	Description
Status	Integer	Setting status. 0: success
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying TencentDB backup time

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyBackupTime
&InstanceId=tdsql-fdpjf5zh
&StartBackupTime=03:00
&EndBackupTime=05:59
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "bb37556d-8fe6-4a07-a1b5-12bd411ebaec",
    "Status": 0
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

OpenDBExtranetAccess

Last updated : 2022-01-27 10:36:36

1. API Description

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

This API is used to enable public network access for a TencentDB instance. After that, you can access the instance with the public domain name and port obtained through the `DescribeDCDBInstances` 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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: OpenDBExtranetAccess.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of instance for which to enable public network access. The ID is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
Ipv6Flag	No	Integer	Whether IPv6 is used. Default value: 0

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID. The task status can be queried through the <code>DescribeFlow</code> API.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enabling public network access for a TencentDB instance

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=OpenDBExtranetAccess
&InstanceId=tdsql-avw0207d
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "901bd41c-08a2-4001-8364-5a63f32056ae",
    "FlowId": 3323
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateFlowFailed	Failed to create the flow.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribePrice

Last updated : 2023-06-21 15:55:38

1. API Description

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

This API is used to query the instance price before you purchase it.

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: DescribePrice.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
Zone	Yes	String	AZ ID of the purchased instance.
NodeCount	Yes	Integer	Number of instance nodes, which can be obtained by querying the instance specification through the <code>DescribeDBInstanceSpecs</code> API.
Memory	Yes	Integer	Memory size in GB, which can be obtained by querying the instance specification through the <code>DescribeDBInstanceSpecs</code> API.
Storage	Yes	Integer	Storage capacity in GB. The maximum and minimum storage space can be obtained

			by querying instance specification through the <code>DescribeDBInstanceSpecs</code> API.
Period	No	Integer	Purchase period in months
Count	No	Integer	The number of instances to be purchased. Only one instance is queried for price by default.
Paymode	No	String	Billing type. Valid values: <code>postpaid</code> (pay-as-you-go), <code>prepaid</code> (monthly subscription).
AmountUnit	No	String	Price unit. Valid values: * <code>pent</code> (cent), * <code>microPent</code> (microcent).

3. Output Parameters

Parameter Name	Type	Description
OriginalPrice	Integer	Original price * Unit: Cent (default). If the request parameter contains <code>AmountUnit</code> , see <code>AmountUnit</code> description. * Currency: CNY (Chinese site), USD (international site)
Price	Integer	The actual price may be different from the original price due to discounts. * Unit: Cent (default). If the request parameter contains <code>AmountUnit</code> , see <code>AmountUnit</code> description. * Currency: CNY (Chinese site), USD (international site)
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the purchase price of an instance

Input Example

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

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

```
{
  "Count": 1,
  "Zone": "ap-guangzhou-2",
  "Storage": "10000",
  "Period": "1",
  "Memory": "2000",
  "NodeCount": "2"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "7e1000c2-190a-d0df-ff75-59fbdf5ff381",
    "OriginalPrice": 21120,
    "Price": 21120
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.QueryPriceFailed	Failed to query the price
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.SpecNotFound	No purchasable specifications found
InvalidParameterValue.IllegalCount	The number of products exceeds the upper limit.
InvalidParameterValue.IllegalZone	Information of the specified AZ was not found.
InvalidParameterValue.SpecIdIllegal	The specification information of the database instance was not found.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifyDBInstancesProject

Last updated : 2023-06-21 15:55:37

1. API Description

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

This API is used to modify the project to which TencentDB instances belong.

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: ModifyDBInstancesProject.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	List of IDs of instances to be modified. The ID is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
ProjectId	Yes	Integer	ID of the project to be assigned, which can be obtained through the <code>DescribeProjects</code> API.

3. Output Parameters

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

4. Example

Example1 Modifying the project to which a TencentDB instance belongs

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyDBInstancesProject
&InstanceIds.0=tdsql-fdpjf5zh
&ProjectId=0
&<Common request parameters>
```

Output Example

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

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeFlow

Last updated : 2022-01-27 10:36:38

1. API Description

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

This API is used to query flow 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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeFlow.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
FlowId	Yes	Integer	Flow ID returned by async request API.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Status	Integer	Flow status. 0: succeeded, 1: failed, 2: running
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying task execution status

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeFlow
&FlowId=3340
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "f63a9e3a-cfe9-4fa3-a690-9671ebdf6bd8",
    "Status": 1
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.FlowNotFound	The specified flow information was not found.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

CloseDBExtranetAccess

Last updated : 2023-06-21 15:55:40

1. API Description

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

This API is used to disable public network access for a TencentDB instance, which will make the public IP address inaccessible. The `DescribeDCDBInstances` API will not return the public domain name and port information of the corresponding instance.

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: CloseDBExtranetAccess.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	ID of instance for which to disable public network access. The ID is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
Ipv6Flag	No	Integer	Whether IPv6 is used. Default value: 0

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID. The task status can be queried through the <code>DescribeFlow</code> API.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Disabling public network access for a TencentDB instance

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=CloseDBExtranetAccess
&InstanceId=tdsql-avw0207d
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "2d1e21a2-b29a-490a-8be0-b61287d92e28",
    "FlowId": 3324
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateFlowFailed	Failed to create the flow.
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.OperateDatabaseFailed	Database operation failed.
InternalServerError.WanServiceFailed	Public network operation failed.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

CreateDBInstance

Last updated : 2023-09-05 10:26:29

1. API Description

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

This API is used to create a monthly subscribed TencentDB for MariaDB instance by passing in information such as instance specifications, database version number, validity period, and quantity.

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: CreateDBInstance.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
Zones.N	Yes	Array of String	AZs to deploy instance nodes. You can specify up to two AZs (one as primary AZ and another as replica AZ). When the shard specification is 1-primary-2-replica, the primary and one of the replicas are deployed in the primary AZ.
NodeCount	Yes	Integer	Number of nodes, which can be obtained by querying the instance specification through the

			<code>DescribeDBInstanceSpecs</code> API.
Memory	Yes	Integer	Memory size in GB, which can be obtained by querying the instance specification through the <code>DescribeDBInstanceSpecs</code> API.
Storage	Yes	Integer	Storage capacity in GB. The maximum and minimum storage space can be obtained by querying instance specification through the <code>DescribeDBInstanceSpecs</code> API.
Period	No	Integer	Validity period in months
Count	No	Integer	The number of instances to be purchased. Only one instance is queried for price by default.
AutoVoucher	No	Boolean	Whether to automatically use vouchers. This option is disabled by default.
VoucherIds.N	No	Array of String	Voucher ID list. Currently, you can specify only one voucher.
VpcId	No	String	VPC ID. If this parameter is not passed in, the instance will be created on the classic network.
SubnetId	No	String	VPC subnet ID, which is required when <code>VpcId</code> is specified.
ProjectId	No	Integer	Project ID, which can be obtained through the <code>DescribeProjects</code> API. If this parameter is not passed in, the instance will be associated with the default project.
DbVersionId	No	String	Database engine version. Valid values: <code>5.7</code> , <code>8.0</code> , <code>10.0</code> , <code>10.1</code> .
InstanceName	No	String	Name of the instance, which can be customized.
SecurityGroupIds.N	No	Array of String	List of security group IDs
AutoRenewFlag	No	Integer	Auto-renewal flag. Valid values: <code>1</code> (auto-renewal), <code>2</code> (no renewal upon expiration).
Ipv6Flag	No	Integer	Whether IPv6 is supported. Valid values: <code>0</code> (unsupported), <code>1</code> (supported).
ResourceTags.N	No	Array of ResourceTag	Array of tag key-value pairs

InitParams.N	No	Array of DBParamValue	List of parameters. Valid values: <code>character_set_server</code> (character set; required); <code>lower_case_table_names</code> (table name case sensitivity; required; 0 : case-sensitive; 1 : case-insensitive); <code>innodb_page_size</code> (InnoDB data page size; default size: 16 KB); <code>sync_mode</code> (sync mode; 0 : async; 1 : strong sync; 2 : downgradable strong sync; default value: 2).
DcnRegion	No	String	DCN source region
DcnInstanceId	No	String	DCN source instance ID

3. Output Parameters

Parameter Name	Type	Description
DealName	String	Order ID, which is used for calling the <code>DescribeOrders</code> API. The parameter can be used to either query order details or call the user account APIs to make another payment when this payment fails.
InstanceIds	Array of String	IDs of the instances you have purchased in this order. If no instance IDs are returned, you can query them with the <code>DescribeOrders</code> API. You can also use the <code>DescribeDBInstances</code> API to check whether an instance has been created successfully. 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 Creating a monthly subscribed TencentDB for MariaDB instance

This example shows you how to create a monthly subscribed TencentDB for MariaDB instance.

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=CreateDBInstance&Zones.0=ap-guangzhou-2&Zones.1=ap-guangzhou-2&Memory=2000&Storage=10000&NodeCount=1&Count=1&Period=1&AutoVoucher=true<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "8c4fba95-01e4-61d9-4146-59fc5afdf962",
    "DealName": "20171103110163",
    "InstanceIds": null
  }
}
```

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description

FailedOperation.CreateOrderFailed	Failed to create an order.
FailedOperation.PayFailed	Failed to make order payment.
FailedOperation.TagDryRunError	Either tag key/value verification or tag API authentication failed.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.CheckVipStatusFailed	Failed to verify the VIP status
InternalError.GetSubnetFailed	Failed to query the VPC subnet information.
InternalError.GetVpcFailed	Failed to query the VPC information.
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter.CheckParamNotPass	Verification of input parameters failed.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.SubnetNotFound	The specified VPC subnet was not found.
InvalidParameter.VpcNotFound	The specified VPC subnet was not found.
InvalidParameterValue.IllegalCount	The number of products exceeds the upper limit.
InvalidParameterValue.IllegalQuantity	The number of products exceeds the upper limit.
InvalidParameterValue.IllegalZone	Information of the specified AZ was not found.
InvalidParameterValue.SpecIdIllegal	The specification information of the database instance was not found.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.DbVersionNotSupported	This database version is not supported.

DescribeBackupTime

Last updated : 2022-01-27 10:36:39

1. API Description

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

This API is used to get the backup time of a TencentDB instance. The backend system will perform instance backup regularly according to this configuration.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeBackupTime.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId.N	Yes	Array of String	Instance ID, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of returned configurations
Items	Array of DBBackupTimeConfig	Instance backup time configuration information Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the configurations of backup time window for a TencentDB instance

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeBackupTime
&InstanceIds.0=tdsql-fdpjf5zh
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "caca6ca7-9ef0-48e0-aa7a-4327a1ac001c",
    "TotalCount": 1,
    "Items": [
      {
        "InstanceId": "tdsql-33y5ai5p",
        "StartBackupTime": "00:00",
        "EndBackupTime": "23:59"
      }
    ]
  }
}
```


5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetInstanceDetailFailed	Failed to get the instance details.
InternalServerError.InnerSystemError	Internal system error.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBInstances

Last updated : 2023-09-05 10:26:28

1. API Description

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

This API is used to query the TencentDB instance list. It supports filtering instances by project ID, instance ID, private address, and instance name.

If no filter is specified, 20 instances will be returned by default. Up to 100 instances can be returned for a single request.

A maximum of 200 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: DescribeDBInstances.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	No	Array of String	Queries by instance ID or IDs. Instance ID is in the format of <code>tdsql-ow728lmc</code> . Up to 100 instances can be queried in one request.
SearchName	No	String	Search field name. Valid values: instancename (search by instance name), vip (search by private IP), all (search by instance ID, instance name, and private IP).

SearchKey	No	String	Search keyword. Fuzzy search is supported. Multiple keywords should be separated by line breaks (\n).
ProjectIds.N	No	Array of Integer	Queries by project ID
IsFilterVpc	No	Boolean	Whether to search by VPC
VpcId	No	String	VPC ID, which is valid when IsFilterVpc is 1
SubnetId	No	String	VPC subnet ID, which is valid when IsFilterVpc is 1
OrderBy	No	String	Sort by field. Valid values: projectId, createtime, instancename
OrderByType	No	String	Sorting order. Valid values: desc, asc
Offset	No	Integer	Offset. Default value: 0
Limit	No	Integer	Number of results to be returned. Default value: 20. Maximum value: 100.
OriginSerialIds.N	No	Array of String	Queries by OriginSerialId
IsFilterExcluster	No	Boolean	Identifies whether to use the ExclusterType field. false: no, true: yes
ExclusterType	No	Integer	Instance cluster type. 1: non-dedicated cluster, 2: dedicated cluster, 0: all
ExclusterIds.N	No	Array of String	Filters instances by dedicated cluster ID in the format of dbdc-4ih6uct9
TagKeys.N	No	Array of String	Tag key used in queries
FilterInstanceType	No	String	Instance types used in filtering. Valid values: 1 (dedicated instance), 2 (primary instance), 3 (disaster recovery instance). Multiple values should be separated by commas.
Status.N	No	Array of Integer	Use this filter to include instances in specific statuses
ExcludeStatus.N	No	Array of Integer	Use this filter to exclude instances in specific statuses

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances
Instances	Array of DBInstance	Instance details 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 instances by instance ID

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBInstances
&InstanceIds.0=tdsql-dj77jd0p
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Instances": [
      {
        "AppId": 251000022,
        "AutoRenewFlag": 1,
        "Cpu": 1,
        "CreateTime": "2021-03-26 15:28:23",
        "DbEngine": "Percona",
        "DbVersion": "5.7.17",
        "DcnDstNum": 0,
        "DcnFlag": 0,
        "DcnStatus": 0,
        "ExclusterId": "",
        "Id": 2000090,
        "InstanceId": "tdsql-dj77jd0p",
        "InstanceName": "tdsql-dj77jd0p",
        "InstanceType": 2,
```

```
"Ipv6Flag": 0,
"IsAuditSupported": 1,
"IsEncryptSupported": 1,
"IsTmp": 0,
"Locker": 0,
"Machine": "TS85",
"Memory": 2,
"NodeCount": 2,
"OriginSerialId": "set_1616743781_36017514",
"Paymode": "prepaid",
"PeriodEndTime": "2021-04-26 15:28:23",
"Pid": 1002231,
"ProjectId": 0,
"Qps": 2100,
"Region": "ap-guangzhou",
"Status": 2,
"StatusDesc": "Running",
"Storage": 10,
"SubnetId": 1479311,
"TdsqLVersion": "Designed based on Percona 5.7.17 (compatible with MySQL 5.7)",
"Uin": "918700682",
"UniqueSubnetId": "subnet-au6ics6s",
"UniqueVpcId": "vpc-737mtr2f",
"UpdateTime": "2021-03-29 17:20:05",
"Vip": "10.1.0.10",
"Vipv6": "",
"VpcId": 74809,
"Vport": 3306,
"WanDomain": "",
"WanPort": 0,
"WanPortIpv6": 0,
"WanStatus": 0,
"WanStatusIpv6": 0,
"WanVip": "",
"WanVipv6": "",
"Zone": "ap-guangzhou-1",
"ResourceTags": [{
  {
    "TagKey": "xx",
    "TagValue": "xx"
  }
},
"RequestId": "66c4d0c5-bdef-45bd-aa5b-05642802d034",
"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.

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.FenceError	Failed to query the information of a dedicated cluster.
InternalServerError.GetVpcFailed	Failed to query the VPC information.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.SubnetNotFound	The specified VPC subnet was not found.
InvalidParameterValue.IllegalExclusterID	The dedicated cluster to which the database instance belongs

	was not found.
InvalidParameterValue.SpecIdIllegal	The specification information of the database instance was not found.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

InitDBInstances

Last updated : 2022-01-27 10:36:37

1. API Description

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

This API is used to initialize TencentDB instances, including setting the default character set and table name case sensitivity.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: InitDBInstances.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceIds.N	Yes	Array of String	List of IDs of instances to be initialized. The ID is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.

Params.N	Yes	Array of DBParamValue	Parameter list. Valid values: <code>character_set_server</code> (character set; required); <code>lower_case_table_names</code> (table name case sensitivity; required; 0: case-sensitive, 1: case-insensitive); <code>innodb_page_size</code> (InnoDB data page; default size: 16 KB); <code>sync_mode</code> (sync mode; 0: async; 1: strong sync; 2: downgradable strong sync; default value: strong sync).
----------	-----	---------------------------------------	---

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID. The task status can be queried through the <code>DescribeFlow</code> API.
InstanceIds	Array of String	Passed through from the input parameters.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Initializing TencentDB instances in batches

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=InitDBInstances
&InstanceIds.0=tdsql-fdpjf5zh
&InstanceIds.1=tdsql-avw0207d
&Params.0.Param=lower_case_table_names
&Params.0.Value=1
&Params.1.Param=innodb_page_size
&Params.1.Value=16384
&Params.2.Param=character_set_server
&Params.2.Value=utf8
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "d94ef093-ff84-4851-b2e0-a5c5920d618e",
    "InstanceIds": [
      "tdsql-fdpjf5zh",
      "tdsql-avw0207d"
    ],
    "FlowId": 3340
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.

InternalError.InnerSystemError	Internal system error.
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameterValue.IllegalInitParam	An error occurred while initializing database instance parameters.
ResourceUnavailable.BadInstanceStatus	Incorrect instance status. Unable to initialize.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifyDBInstanceName

Last updated : 2022-01-27 10:36:37

1. API Description

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

This API is used to rename a TencentDB instance.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: ModifyDBInstanceName.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of instance to be modified, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
InstanceName	Yes	String	New name of instance, which can contain letters, digits, underscores, and hyphens.

3. Output Parameters

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

4. Example

Example1 Modifying instance names

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyDBInstanceName
&InstanceId=tdsql-fdpjf5zh
&InstanceName=newname
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "6a6b0cc7-c183-4e50-bf19-b83aa9fe77fc",
    "InstanceId": "tdsql-fdpjf5zh"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.InstanceNameIllegal	Invalid instance name.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeInstanceNodeInfo

Last updated : 2023-06-21 15:55:39

1. API Description

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

This API is used to query the information of primary and replica nodes of an instance.

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: DescribeInstanceNodeInfo.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, such as tdsq1-6ltok4u9
Limit	No	Integer	The maximum number of results returned at a time. By default, there is no upper limit to this value, that is, all results can be returned.
Offset	No	Integer	Offset of the returned results. Default value: 0 .

3. Output Parameters

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

4. Example

Example1 Querying the information of primary and replica nodes of an instance

Input Example

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

{
  "InstanceId": "tdsql-b43f8yjl"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "186315",
    "NodesInfo": [
      {
        "Role": "master",
        "NodeId": "5c2af09aeeb701fef6d5fef4329bb62d61f211ac"
      },
      {
        "Role": "slave",
        "NodeId": "dbedea66f4ba2b71e6816e3f9d0c2936e5448786"
      },
      {
        "Role": "slave",
        "NodeId": "1b40c8a28bec5c4af666d31b24119e319d68773e"
      }
    ]
  }
}
```



```
}  
],  
"TotalCount": 3  
}  
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalServerError.InnerSystemError	Internal system error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.

DescribeDcnDetail

Last updated : 2023-06-21 15:55:39

1. API Description

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

This API is used to query the disaster recovery details of an instance.

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: DescribeDcnDetail.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter Name	Type	Description
DcnDetails	Array of DcnDetailItem	DCN synchronization details

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

Example1 Querying the disaster recovery details of an instance

This example shows you how to query the disaster recovery details of an instance.

Input Example

```
POST / HTTP/1.1Host: mariadb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeDcnDetail<common request parameters>{ "InstanceId": "tdsql-ohjuvzgt" }
```

Output Example

```
{ "Response": { "DcnDetails": [ { "Cpu": 1, "CreateTime": "2022-11-08 11:39:44", "DcnFlag": 1, "DcnStatus": 0, "EncryptStatus": 0, "InstanceId": "tdsql-ohjuvzgt", "InstanceName": "tdsql-ohjuvzgt", "InstanceType": 2, "Memory": 2, "PayMode": 0, "PeriodEndTime": "0001-01-01 00:00:00", "Region": "ap-guangzhou", "ReplicaConfig": null, "ReplicaStatus": null, "Status": 2, "StatusDesc": "Running", "Storage": 10, "Vip": "172.16.16.140", "VipV6": "", "Vport": 3306, "Zone": "ap-guangzhou-2" }, { "Cpu": 1, "CreateTime": "2022-11-08 11:43:06", "DcnFlag": 2, "DcnStatus": 2, "EncryptStatus": 0, "InstanceId": "tdsql-61vf76u9", "InstanceName": "tdsql-61vf76u9", "InstanceType": 3, "Memory": 2, "PayMode": 0, "PeriodEndTime": "0001-01-01 00:00:00", "Region": "ap-guangzhou", "ReplicaConfig": { "DelayReplicationType": "DEF AULT", "DueTime": "", "ReplicationDelay": 0, "RoReplicationMode": "START" }, "ReplicaStatus": { "Delay": 0, "Status": "RUNNING" }, "Status": 2, "StatusDesc": "Running", "Storage": 10, "Vip": "172.16.16.70", "VipV6": "", "Vport": 3306, "Zone": "ap-guangzhou-3" } ], "RequestId": "6bd7aceb-4f68-4048-9551-037d16a0870b" }
```

5. Developer Resources

SDK

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

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

- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.InnerSystemError	Internal system error.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DestroyHourDBInstance

Last updated : 2023-06-21 15:55:38

1. API Description

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

This API is used to terminate a pay-as-you-go TencentDB for MariaDB instance.

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: DestroyHourDBInstance.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of tdsql-avw0207d. It is the same as the instance ID displayed in the TencentDB console.

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID, which can be used in the DescribeFlow API to query the async task

		result.
InstanceId	String	Instance ID, which is the same as the request parameter <code>InstanceId</code> .
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Terminating a pay-as-you-go TencentDB for MariaDB instance

This example shows you how to terminate a pay-as-you-go TencentDB for MariaDB instance.

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DestroyHourDBInstance&InstanceId=tdsql-avw0207d<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "8c4fba95-01e4-61d9-4146-59fc5afdf962",
    "FlowId": 100,
    "InstanceId": "tdsql-avw0207d"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.CreateFlowFailed	Failed to create the flow.
FailedOperation.InstanceReturnFailed	Instance refund failed
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

CancelDcnJob

Last updated : 2023-09-05 10:26:29

1. API Description

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

This API is used to cancel DCN synchronization.

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: CancelDcnJob.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Disaster recovery instance ID

3. Output Parameters

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

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

4. Example

Example1 N/A

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=CancelDcnJob
&InstanceId=tdsql-2rn9lmpx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "FlowId": 11211,
    "RequestId": "cbca1c8e-e123-11ea-a777-525400542aa6"
  }
}
```

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.OssOperationFailed	Failed to request the backend API.
InternalError	Internal error.
InternalError.CreateFlowFailed	Failed to create a task.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

CreateHourDBInstance

Last updated : 2023-09-05 10:26:29

1. API Description

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

This API is used to create a pay-as-you-go TencentDB for MariaDB instance.

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: CreateHourDBInstance.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
Zones.N	Yes	Array of String	AZs to deploy instance nodes. You can specify up to two AZs.
NodeCount	Yes	Integer	Number of nodes.
Memory	Yes	Integer	Memory size in GB.
Storage	Yes	Integer	Storage size in GB.
Count	No	Integer	Number of instances to purchase.

ProjectId	No	Integer	Project ID. If this parameter is not passed in, the default project will be used.
VpcId	No	String	Unique ID of the network. If this parameter is not passed in, the classic network will be used.
SubnetId	No	String	Unique ID of the subnet. If <code>VpcId</code> is specified, this parameter is required.
DbVersionId	No	String	Database engine version. Valid values: <code>5.7</code> , <code>8.0</code> , <code>10.0</code> , <code>10.1</code> .
InstanceName	No	String	Custom name of the instance.
SecurityGroupIds.N	No	Array of String	Security group ID. If this parameter is not passed in, no security groups will be associated when the instance is created.
Ipv6Flag	No	Integer	Whether IPv6 is supported. Valid values: <code>0</code> (unsupported), <code>1</code> (supported).
ResourceTags.N	No	Array of ResourceTag	Array of tag key-value pairs.
DcnRegion	No	String	If you create a disaster recovery instance, you need to use this parameter to specify the region of the associated primary instance so that the disaster recovery instance can sync data with the primary instance over the Data Communication Network (DCN).
DcnInstanceId	No	String	If you create a disaster recovery instance, you need to use this parameter to specify the ID of the associated primary instance so that the disaster recovery instance can sync data with the primary instance over the Data Communication Network (DCN).
InitParams.N	No	Array of DBParamValue	List of parameters. Valid values: <code>character_set_server</code> (character set; required); <code>lower_case_table_names</code> (table name case sensitivity; required; 0: case-sensitive; 1: case-insensitive); <code>innodb_page_size</code> (InnoDB data page size; default size: 16 KB); <code>sync_mode</code> (sync mode; 0: async; 1: strong sync; 2: downgradable strong sync; default value: 2).

RollbackInstanceid	No	String	ID of the instance to be rolled back, such as "2021-11-22 00:00:00".
RollbackTime	No	String	Rollback time.

3. Output Parameters

Parameter Name	Type	Description
DealName	String	Order ID, which is used for calling the <code>DescribeOrders</code> API. The parameter can be used to either query order details or call the user account APIs to make another payment when this payment fails.
InstanceIds	Array of String	IDs of the instances you have purchased in this order. If no instance IDs are returned, you can query them with the <code>DescribeOrders</code> API. You can also use the <code>DescribeDBInstances</code> API to check whether an instance has been created successfully. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
FlowId	Integer	Async task ID, which can be used in the <code>DescribeFlow</code> API to query the async task result. 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 Creating a pay-as-you-go TencentDB for MariaDB instance

This example shows you how to create a pay-as-you-go TencentDB for MariaDB instance.

Input Example

```
POST / HTTP/1.1Host: mariadb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreateHourDBInstance<common request parameters>{ "DbVersionId": "5.7.17", "VpcId": "vpc-n2vdqxdx", "Storage": "10", "Zones": [ "ap-guangzhou-1", "ap-guangzhou-1" ], "SubnetId": "subnet-j2ezrypg", "Memory": "2", "NodeCount": "2"}
```

Output Example

```
{
  "Response": {
    "DealName": "20200409111543",
    "InstanceIds": [
      "tdsql-dup8gl6t"
    ],
    "FlowId": 22051110000,
    "RequestId": "05ad9b30-ac0a-4945-afd5-3d405d537a93"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateOrderFailed	Failed to create an order.
FailedOperation.TagDryRunError	Either tag key/value verification or tag API authentication failed.

FailedOperation.UserNotAuthed	Unauthenticated user
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.GetSubnetFailed	Failed to query the VPC subnet information.
InternalError.GetVpcFailed	Failed to query the VPC information.
InternalError.InnerSystemError	Internal system error.
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter	Parameter error.
InvalidParameter.CheckParamNotPass	Verification of input parameters failed.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.SubnetNotFound	The specified VPC subnet was not found.
InvalidParameter.VpcNotFound	The specified VPC subnet was not found.
InvalidParameterValue.IllegalQuantity	The number of products exceeds the upper limit.
InvalidParameterValue.IllegalZone	Information of the specified AZ was not found.
InvalidParameterValue.SpecIdIllegal	The specification information of the database instance was not found.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.DbVersionNotSupported	This database version is not supported.

SwitchDBInstanceHA

Last updated : 2022-01-27 10:36:36

1. API Description

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

This API is used to start a primary-replica switch of instances.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: SwitchDBInstanceHA.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of tdsq1-ow728lmc
Zone	Yes	String	Target AZ. The node with the lowest delay in the target AZ will be automatically promoted to primary node.

3. Output Parameters

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

4. Example

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CreateFlowFailed	Failed to create a task.

InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetInstanceDetailFailed	Failed to get the instance details.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.ZoneIdIllegal	Incorrect AZ information.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.InvalidOperation	Unsupported operation.

IsolateHourDBInstance

Last updated : 2022-03-07 15:52:52

1. API Description

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

This API is used to isolate pay-as-you-go instances.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: IsolateHourDBInstance.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceIds.N	Yes	Array of String	Instance ID list

3. Output Parameters

Parameter Name	Type	Description
SuccessInstanceIds	Array of String	IDs of instances removed from isolation
FailedInstanceIds	Array of String	IDs of instances failed to be removed from isolation
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Isolating a pay-as-you-go instance

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=IsolateHourDBInstance
&InstanceIds[0]=tdsql-cq3ndzu7
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "FailedInstanceIds": [],
    "RequestId": "8ce27ff0-7fe1-11ea-8469-525400542aa6",
    "SuccessInstanceIds": []
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.IllegalInstanceId	Invalid instance ID.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ActivateHourDBInstance

Last updated : 2022-03-07 15:52:52

1. API Description

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

This API is used to remove the isolation of pay-as-you-go instances.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: ActivateHourDBInstance.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceIds.N	Yes	Array of String	Instance ID list

3. Output Parameters

Parameter Name	Type	Description
SuccessInstanceIds	Array of String	IDs of isolated instances
FailedInstanceIds	Array of String	IDs of instances failed to be isolated
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Removing the isolation of a pay-as-you-go instance

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ActivateHourDBInstance
&InstanceIds[0]=tdsql-rlve31jd
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "FailedInstanceIds": [],
    "RequestId": "8ce27ff0-7fe1-11ea-8469-525400542aa6",
    "SuccessInstanceIds": [
      "tdsql-rlve31jd"
    ]
  }
}
```

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](#)
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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
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.IllegalInstanceId	Invalid instance ID.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DestroyDBInstance

Last updated : 2023-06-21 15:55:38

1. API Description

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

This API is used to terminate an isolated monthly subscribed instance.

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: DestroyDBInstance.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of "tdsqlshard-c1nl9rpv". It is the same as the instance ID displayed in the TencentDB for MariaDB console.

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID, which is the same as the request parameter <code>InstanceId</code> .

FlowId	Integer	Async task ID, which can be used in the DescribeFlow API to query the async task result.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DestroyDBInstance
&InstanceId=tdsql-avw0207d
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "8c4fba95-01e4-61d9-4146-59fc5afdf962",
    "FlowId": 100,
    "InstanceId": "tdsql-avw0207d"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.CreateFlowFailed	Failed to create the flow.
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifyInstanceVport

Last updated : 2023-06-21 15:55:37

1. API Description

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

This API is used to modify instance Vport.

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: ModifyInstanceVport.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
Vport	Yes	Integer	Instance Vport

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 instance Vport

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyInstanceVport
&InstanceId=tdsql-rlve31jd
&Vport=3307
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "8ce27ff0-7fe1-11ea-8469-525400542aa6"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.SGChangeVip	Failed to update the security group
FailedOperation.VpcAddServiceFailed	Failed to add service to VPC
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InnerSystemError	Internal system error.
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.VipUsed	VIP is in use.
InvalidParameter.VportUsed	Vport is in use.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifyInstanceVip

Last updated : 2023-06-21 15:55:37

1. API Description

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

This API is used to modify instance VIP.

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: ModifyInstanceVip.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
Vip	Yes	String	Instance VIP
Ipv6Flag	No	Integer	IPv6 flag
VipReleaseDelay	No	Integer	VIP retention period in hours. Value range: 0-168. Default value: 24 . 0 indicates that the VIP will be released immediately, but there will be 1-minute delay.

3. Output Parameters

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

4. Example

Example1 Modifying instance VIP

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyInstanceVip
&InstanceId=tdsql-jv8z8fhl
&VipReleaseDelay=168
&Vip=10.0.0.2
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "14f6980a-7fe1-11ea-b896-525400542aa6",
    "FlowId": 1122
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.ApplyVipFailed	Failed to apply for VIP
FailedOperation.VipNotChange	VIP can't be the same.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InnerSystemError	Internal system error.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.VipNotInSubnet	VIP is not in the subnet.
InvalidParameter.VipUsed	VIP is in use.
ResourceInsufficient	Resources are insufficient.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifyInstanceNetwork

Last updated : 2023-06-21 15:55:37

1. API Description

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

This API is used to modify instance network.

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: ModifyInstanceNetwork.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
VpcId	Yes	String	VpcId, ID of the desired VPC network.
SubnetId	Yes	String	SubnetId, subnet ID of the desired VPC network.
Vip	No	String	The field is required to specify VIP.
VipV6	No	String	The field is required to specify VIPv6.
VipReleaseDelay	No	Integer	VIP retention period in hours. Value range: 0-168. Default value: 24 . 0 indicates that the VIP will be released immediately, but

there will be 1-minute delay.

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID, which can be used to query the task status through <code>DescribeFlow</code> API.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 None

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyInstanceNetwork
&InstanceId=tdsql-jv8z8fh1
&VpcId=vpc-xxxxxx
&SubnetId=subnet-xxxxxx
&VipReleaseDelay=168
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "14f6980a-7fe1-11ea-b896-525400542aa6",
    "FlowId": 1122
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.ApplyVipFailed	Failed to apply for VIP
FailedOperation.WanStatusAbnormal	Abnormal public network status
InternalError.CheckVipStatusFailed	Failed to verify the VIP status
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSubnetFailed	Failed to query the VPC subnet information.
InternalError.GetVpcFailed	Failed to query the VPC information.
InternalError.VpcOperationFailed	VPC operation failed
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.SubnetUnavailable	The SNAT subnet doesn't support applying for IPs.
InvalidParameter.VipNotInSubnet	VIP is not in the subnet.
InvalidParameter.VipUsed	VIP is in use.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not

	allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

IsolateDedicatedDBInstance

Last updated : 2023-06-21 15:55:37

1. API Description

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

This API is used to isolate a dedicated TencentDB instance.

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: IsolateDedicatedDBInstance.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code>

3. Output Parameters

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

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

4. Example

Example1 None

Input Example

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

{
  "InstanceId": "tdsql-xxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xxx"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssIsolateInstanceFailed	Failed to isolate the instance
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

IsolateDBInstance

Last updated : 2023-06-21 15:55:38

1. API Description

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

This API is used to isolate a monthly subscribed TencentDB for MariaDB instance, which will no longer be accessible via IP and port. The isolated instance can be started up in the recycle bin. If it is isolated due to overdue payments, top up your account as soon as possible.

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: IsolateDBInstance.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID in the format of <code>tdsql-dasjkh</code> . It is the same as the instance ID displayed on the TencentDB console. You can use the <code>DescribeDBInstances</code> API to query the ID, which is the value of the <code>InstanceId</code> output parameter.

3. Output Parameters

Parameter Name	Type	Description
SuccessInstanceIds	Array of String	IDs of isolated instances
FailedInstanceIds	Array of String	IDs of instances failed to be isolated
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Isolating a monthly subscribed TencentDB for MariaDB instance

This example shows you how to isolate a monthly subscribed TencentDB for MariaDB instance.

Input Example

```
POST / HTTP/1.1Host: mariadb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: IsolateDBInstance<common request parameters>{ "InstanceIds": [ "tdsql-c
q3ndzu7" ] }
```

Output Example

```
{
  "Response": {
    "FailedInstanceIds": [],
    "RequestId": "15eec42b-2c7b-410b-8efc-46da52e217a9",
    "SuccessInstanceIds": [
      "tdsql-cq3ndzu7"
    ]
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.CreateOrderFailed	Failed to create an order.
FailedOperation.InstanceCanNotReturn	Refund is not supported for the instance
FailedOperation.InstanceReturnFailed	Instance refund failed
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter	Parameter error.
InvalidParameter.ActionNotFound	API not found
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.

TerminateDedicatedDBInstance

Last updated : 2023-06-21 15:55:36

1. API Description

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

This API is used to terminate the isolated dedicated TencentDB instance.

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: TerminateDedicatedDBInstance.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow7281mc</code>

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID

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

4. Example

Example1 None

Input Example

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

{
  "InstanceId": "tdsql-lyzax5rb"
}
```

Output Example

```
{
  "Response": {
    "FlowId": 1,
    "RequestId": "5d6581df-7914-46e5-9693-0663617c756e"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateFlowFailed	Failed to create the flow.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.CreateFlowFailed	Failed to create a task.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBInstanceDetail

Last updated : 2023-09-05 10:26:28

1. API Description

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

This API is used to query the details of a specified instance.

A maximum of 200 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: DescribeDBInstanceDetail.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code>

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID

InstanceName	String	Instance name
Status	Integer	Instance status
StatusDesc	String	Current status of the instance
Vip	String	Private IP address
Vport	Integer	Private port
IsTmp	Integer	Whether it is a temp instance. Valid values: <code>0</code> (no), non-zero value (yes).
NodeCount	Integer	Number of nodes. Valid values: <code>2</code> (1 primary-1 replica), <code>3</code> (1 primary-2 replicas).
Region	String	Instance region name, such as ap-shanghai.
Zone	String	Instance AZ name, such as ap-guangzhou-1.
VpcId	String	VPC ID in string type
SubnetId	String	VPC subnet ID in string type
WanStatus	Integer	Public network status. Valid values: <code>0</code> (not enabled), <code>1</code> (enabled), <code>2</code> (disabled), <code>3</code> : (enabling), <code>4</code> (disabling).
WanDomain	String	Domain name for public network access, which can be resolved by the public network.
WanVip	String	Public IP address, which can be accessed over the public network.
WanPort	Integer	Public network port
ProjectId	Integer	Project ID of the instance
TdsqVersion	String	TDSQL version information
Memory	Integer	Instance memory capacity in GB
Storage	Integer	Instance storage capacity in GB
MasterZone	String	Primary AZ, such as ap-shanghai-1.
SlaveZones	Array of String	List of replica AZs, such as ap-shanghai-2.
AutoRenewFlag	Integer	Auto-renewal flag. Valid values: <code>0</code> (no), <code>1</code>

		(yes).
ExclusterId	String	Dedicated cluster ID, which is empty for a non-dedicated cluster instance.
PayMode	String	Billing mode. Valid values: <code>prepaid</code> (monthly subscription), <code>postpaid</code> (pay-as-you-go).
CreateTime	Timestamp	Creation time of the instance in the format of 2006-01-02 15:04:05
IsAuditSupported	Boolean	Whether the instance supports audit
PeriodEndTime	Timestamp	Expiration time of the instance in the format of 2006-01-02 15:04:05
Machine	String	Model information
StorageUsage	String	Storage space utilization
LogStorage	Integer	Size of log storage space in GB
IsEncryptSupported	Integer	Whether data encryption is supported. Valid values: <code>1</code> (yes), <code>0</code> : (no).
Vip6	String	Private network IPv6 address Note: This field may return null, indicating that no valid values can be obtained.
Cpu	Integer	Number of CPU cores of an instance.
Pid	Integer	Product type ID
Qps	Integer	Max QPS
Ipv6Flag	Integer	Whether IPv6 is supported. Note: This field may return null, indicating that no valid values can be obtained.
WanVip6	String	Public IPv6 address, which can be accessed over the public network Note: This field may return null, indicating that no valid values can be obtained.
WanStatusIpv6	Integer	Public network status. Valid values: <code>0</code> (not enabled), <code>1</code> (enabled), <code>2</code> (disabled), <code>3</code> : (enabling), <code>4</code> (disabling).

		Note: This field may return null, indicating that no valid values can be obtained.
WanPortIpv6	Integer	Public network IPv6 port Note: This field may return null, indicating that no valid values can be obtained.
DbEngine	String	Database engine Note: This field may return null, indicating that no valid values can be obtained.
DbVersion	String	Database version Note: This field may return null, indicating that no valid values can be obtained.
ResourceTags	Array of ResourceTag	Tag information
DcnFlag	Integer	DCN type. Valid values: <code>0</code> (N/A), <code>1</code> (primary instance), <code>2</code> (disaster recovery read-only instance) Note: This field may return null, indicating that no valid values can be obtained.
DcnStatus	Integer	DCN status. Valid values: <code>0</code> (N/A), <code>1</code> (creating), <code>2</code> (syncing), <code>3</code> (disconnected) Note: This field may return null, indicating that no valid values can be obtained.
DcnDstNum	Integer	Number of disaster recovery read-only instances Note: This field may return null, indicating that no valid values can be obtained.
InstanceType	Integer	Instance type. Valid values: <code>1</code> (dedicated primary instance), <code>2</code> (non-dedicated primary instance), <code>3</code> (non-dedicated disaster recovery read-only instance), <code>4</code> (dedicated disaster recovery read-only instance) Note: This field may return null, indicating that no valid values can be obtained.
NodesInfo	Array of NodeInfo	Instance node information Note: This field may return null, indicating that no valid values can be obtained.
IsMaxUserConnectionsSupported	Boolean	Whether the instance supports setting the connection limit, which is not supported for

		kernel version 10.1. Note: This field may return null, indicating that no valid values can be obtained.
DbVersionId	String	The displayed database version Note: This field may return null, indicating that no valid values can be obtained.
EncryptStatus	Integer	Encryption status. Valid values: <code>0</code> (disabled), <code>1</code> (enabled). Note: This field may return null, indicating that no valid values can be obtained.
ReplicaConfig	DCNReplicaConfig	Configuration information of DCN Note: This field may return null, indicating that no valid values can be obtained.
ReplicaStatus	DCNReplicaStatus	Running status of DCN Note: This field may return null, indicating that no valid values can be obtained.
ExclusterType	Integer	Type of dedicated cluster. Valid values: <code>0</code> (public cloud), <code>1</code> (finance cage), <code>2</code> (CDC cluster). Note: This field may return null, indicating that no valid values can be obtained.
RsAccessStrategy	Integer	Nearby VPC access Note: This field may return null, indicating that no valid values can be obtained.
ReservedNetResources	Array of ReservedNetResource	Unclaimed network resource
IsPhysicalReplicationSupported	Boolean	Whether physical replication is supported.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the details of an instance

This example shows you how to query the details of a centralized (non-distributed) instance.

Input Example

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

{
  "InstanceId": "tdsql-h178kq75"
}
```

Output Example

```
{
  "Response": {
    "AutoRenewFlag": 0,
    "Cpu": 1,
    "CreateTime": "2023-02-27 17:58:50",
    "DbEngine": "MySQL",
    "DbVersion": "8.0.24",
    "DbVersionId": "8.0",
    "DcnDstNum": 1,
    "DcnFlag": 1,
    "DcnStatus": 2,
    "EncryptStatus": 0,
    "ExclusterId": "",
    "ExclusterType": 0,
    "InstanceId": "tdsql-h178kq75",
    "InstanceName": "cdz",
    "InstanceType": 2,
    "Ipv6Flag": 0,
    "IsAuditSupported": true,
    "IsEncryptSupported": 0,
    "IsMaxUserConnectionsSupported": true,
    "IsTmp": 0,
    "LogStorage": 8,
    "Machine": "TS85",
    "MasterZone": "ap-guangzhou-3",
    "Memory": 2,
    "NodeCount": 2,
    "NodesInfo": [
      {
        "NodeId": "60af5538060f",
        "Role": "master"
      },
    ],
  }
}
```

```
{
  "NodeId": "12c58811dbfd",
  "Role": "slave"
},
{
  "PayMode": "postpaid",
  "PeriodEndTime": "0001-01-01 00:00:00",
  "Pid": 1002231,
  "ProjectId": 0,
  "Qps": 2100,
  "Region": "ap-guangzhou",
  "ReplicaConfig": null,
  "ReplicaStatus": null,
  "RequestId": "40b4a902-5217-4e18-8db1-10e0ff01be62",
  "ResourceTags": [],
  "RsAccessStrategy": 0,
  "SlaveZones": [
    "ap-guangzhou-3"
  ],
  "Status": 2,
  "StatusDesc": "Running",
  "Storage": 10,
  "StorageUsage": "0.010",
  "SubnetId": "subnet-8ve8m3xy",
  "TdsqLVersion": "Designed based on MySQL 8.0.24 (compatible with MySQL 8.0)Mysql 8.0)",
  "Vip": "10.1.0.13",
  "Vip6": "",
  "VpcId": "vpc-0rjtvrlz",
  "Vport": 3306,
  "WanDomain": "",
  "WanPort": 0,
  "WanPortIpv6": 0,
  "WanStatus": 0,
  "WanStatusIpv6": 0,
  "WanVip": "",
  "WanVipv6": "",
  "Zone": "ap-guangzhou-3",
  "ReservedNetResources": [
    {
      "VpcId": "vpc-5rske1or",
      "SubnetId": "subnet-0z3os0xe",
      "Vip": "10.1.0.6",
      "Vports": [
        3306
      ],
      "RecycleTime": "2023-05-19 16:12:32"
```

```
}  
],  
"IsPhysicalReplicationSupported": true  
}  
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetInstanceDetailFailed	Failed to get the instance details.
InternalServerError.GetSubnetFailed	Failed to query the VPC subnet information.
InternalServerError.OperateDatabaseFailed	Database operation failed.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.

UnauthorizedOperation.PermissionDenied

You have no permission to manipulate this API or resource.

DescribeOrders

Last updated : 2023-06-21 15:55:39

1. API Description

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

This API is used to query TencentDB order information. You can pass in an order ID to query the TencentDB instance associated with the order and the corresponding task process ID.

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: DescribeOrders.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
DealNames.N	Yes	Array of String	List of long order numbers to be queried, which are returned for the APIs for creating, renewing, or scaling instances.

3. Output Parameters

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

TotalCount	Integer	Returned number of orders.
Deals	Array of Deal	Order 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 order information

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeOrders
&DealNames.0=20171103110035
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "9b59ee51-0e13-1c2f-dedb-59fabe9d7f4a",
    "TotalCount": 1,
    "Deals": [
      {
        "DealName": "20171103110035",
        "OwnerUin": "1235674890",
        "Count": 1,
        "PayMode": 1,
        "FlowId": 1234,
        "InstanceIds": [
          "tdsql-1234"
        ]
      }
    ]
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.QueryOrderFailed	Failed to query the order information.
InvalidParameter.DealNameNotGiven	The order ID to be queried is not specified.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

Parameter Management APIs

ModifyLogFileRetentionPeriod

Last updated : 2022-01-27 10:36:33

1. API Description

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

This API is used to modify the number of days for retention of database backup logs.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: ModifyLogFileRetentionPeriod.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
Days	Yes	Integer	Retention days up to 30

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying backup log retention days

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyLogFileRetentionPeriod
&InstanceId=tdsql-ige1a5k3
&Days=29
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "InstanceId": "tdsql-ige1a5k3",
    "RequestId": "7f642839-f40d-4faf-8d84-be7894ce048a"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameterValue.IllegalLogSaveDays	The number of days for log retention after modification is either too high or too low.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeLogFileRetentionPeriod

Last updated : 2023-06-21 15:55:34

1. API Description

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

This API is used to view the backup log retention days.

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: DescribeLogFileRetentionPeriod.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code>

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID in the format of <code>tdsql-ow728lmc</code>

Days	Integer	Backup log retention days
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing backup log retention days

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeLogFileRetentionPeriod
&InstanceId=tdsql-ige1a5k3
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "InstanceId": "tdsql-ige1a5k3",
    "Days": 30,
    "RequestId": "87e86e78-340f-48f3-a84b-a42517d7aa46"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifyDBParameters

Last updated : 2023-06-21 15:55:34

1. API Description

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

This API is used to modify database parameters.

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: ModifyDBParameters.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
Params.N	Yes	Array of DBParamValue	Parameter list. Each element is a combination of <code>Param</code> and <code>Value</code> .

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
Result	Array of ParamModifyResult	Parameter modification result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying database parameters

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyDBParameters
&InstanceId=tdsql-ige1a5k3
&Params.0.Param=character_set_server
&Params.0.Value=utf8
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "InstanceId": "tdsql-ige1a5k3",
    "Result": [
      {
        "Code": 0,
        "Param": "character_set_server"
      }
    ],
    "RequestId": "896e21bc-1547-4ce2-ab81-c97cc9d73973"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetDbConfigFailed	Failed to get database instance parameters.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceHasBeenLocked	The database instance has been locked. Operations are not allowed.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBParameters

Last updated : 2023-06-21 15:55:35

1. API Description

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

This API is used to get the current parameter settings of a database.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDBParameters.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .

Params	Array of ParamDesc	Requests the current parameter values of the database
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting current database parameters

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBParameters
&InstanceId=tdsql-ige1a5k3
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "InstanceId": "tdsql-ige1a5k3",
    "Params": [
      {
        "Default": "1",
        "SetValue": "",
        "Value": "1",
        "Param": "auto_increment_increment",
        "HaveSetValue": false,
        "NeedRestart": false,
        "Constraint": {
          "String": "",
          "Enum": "",
          "Range": {
            "Max": "65535",
            "Min": "1"
          }
        },
        "Type": "section"
      }
    ]
  },
  "RequestId": "914db412-d6e6-47ad-8e62-d06e02e52a56"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetDbConfigFailed	Failed to get database instance parameters.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifyDBSyncMode

Last updated : 2023-06-21 15:55:34

1. API Description

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

This API is used to modify the sync mode of a TencentDB instance.

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: ModifyDBSyncMode.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	ID of the instance for which to modify the sync mode. The ID is in the format of <code>tdsql-ow728lmc</code> .
SyncMode	Yes	Integer	Sync mode. Valid values: <code>0</code> (async), <code>1</code> (strong sync), <code>2</code> (downgradable strong sync).

3. Output Parameters

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

Name		
FlowId	Integer	Async task ID. The task status can be queried through the <code>DescribeFlow</code> API.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the sync mode of TencentDB instance

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyDBSyncMode
&InstanceId=tdsql-avw0207d
&SyncMode=0
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "901bd41c-08a2-4001-8364-5a63f32056ae",
    "FlowId": 3521
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateFlowFailed	Failed to create the flow.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.GetInstanceInfoFailed	Failed to get the backend instance information.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.BadSyncMode	The instance does not support this sync mode.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.InvalidOperation	The operation is not supported.

Monitoring Management APIs

DescribeDBPerformanceDetails

Last updated : 2021-01-22 10:09:05

1. API Description

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

This API is used to view the instance performance data details.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: mariadb.ap-shanghai-fsi.tencentcloudapi.com

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: DescribeDBPerformanceDetails.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
StartTime	Yes	Date	Start date in the format of <code>yyyy-mm-dd</code>
EndTime	Yes	Date	End date in the format of <code>yyyy-mm-dd</code>

MetricName	No	String	Name of pulled metric. Valid values: long_query, select_total, update_total, insert_total, delete_total, mem_hit_rate, disk_iops, conn_active, is_master_switched, slave_delay
------------	----	--------	--

3. Output Parameters

Parameter Name	Type	Description
Master	PerformanceMonitorSet	Master node performance monitoring data
Slave1	PerformanceMonitorSet	Slave 1 performance monitoring data Note: this field may return null, indicating that no valid values can be obtained.
Slave2	PerformanceMonitorSet	Slave 2 performance monitoring data. If the instance is one-primary-one-secondary, it does not have this field 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 Viewing instance performance data details

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBPerformanceDetails
&InstanceId=tdsql-ige1a5k3
&StartTime=2018-03-19
&EndTime=2018-03-19
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Slave1": {
      "UpdateTotal": {
```

```
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"DiskIops": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"ConnActive": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"MemHitRate": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"SlaveDelay": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"SelectTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
```

```
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"LongQuery": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"DeleteTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"InsertTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"IsMasterSwitched": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
}
},
"Master": {
"UpdateTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
```

```
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"DiskIops": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"ConnActive": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"MemHitRate": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"SlaveDelay": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"SelectTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
```

```
1
],
"StartTime": "2018-03-24 00:00:00"
},
"LongQuery": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"DeleteTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"InsertTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"IsMasterSwitched": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
}
},
"RequestId": "97da3f78-7105-409f-94ca-fc8272e3e515"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.InnerSystemError	Internal system error.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.ShardNotExist	The shard does not exist.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBResourceUsageDetails

Last updated : 2022-01-27 10:36:35

1. API Description

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

This API is used to view the current performance data of a database instance.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeDBResourceUsageDetails.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
StartTime	Yes	Date	Start date in the format of <code>yyyy-mm-dd</code>
EndTime	Yes	Date	End date in the format of <code>yyyy-mm-dd</code>

MetricName	No	String	Name of pulled metric. Valid values: data_disk_available, binlog_disk_available, mem_available, cpu_usage_rate
------------	----	--------	--

3. Output Parameters

Parameter Name	Type	Description
Master	ResourceUsageMonitorSet	Master node resource usage monitoring node
Slave1	ResourceUsageMonitorSet	Slave 1 resource usage monitoring node Note: this field may return null, indicating that no valid values can be obtained.
Slave2	ResourceUsageMonitorSet	Slave 2 resource usage monitoring node 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 Viewing instance resource usage details

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBResourceUsageDetails
&InstanceId=tdsql-ige1a5k3
&StartTime=2018-03-19
&EndTime=2018-03-19
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Slave1": {
      "BinlogDiskAvailable": {
        "EndTime": "2018-03-24 23:59:59",
        "Data": [
```

```
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"CpuUsageRate": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"MemAvailable": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"DataDiskAvailable": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
}
},
"Master": {
"BinlogDiskAvailable": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"CpuUsageRate": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
```

```
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"MemAvailable": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"DataDiskAvailable": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
}
},
"RequestId": "6ce468ba-206a-4ad1-a1e6-7f2194657649"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.InnerSystemError	Internal system error.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.ShardNotExist	The shard does not exist.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBResourceUsage

Last updated : 2022-02-18 11:36:51

1. API Description

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

This API is used to view the resource usage of a database instance.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeDBResourceUsage.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
StartTime	Yes	Date	Start date in the format of <code>yyyy-mm-dd</code>
EndTime	Yes	Date	End date in the format of <code>yyyy-mm-dd</code>

MetricName	No	String	Name of pulled metric. Valid values: data_disk_available, binlog_disk_available, mem_available, cpu_usage_rate
------------	----	--------	--

3. Output Parameters

Parameter Name	Type	Description
BinlogDiskAvailable	MonitorData	Available capacity of binlog disk in GB
DataDiskAvailable	MonitorData	Available disk capacity in GB
CpuUsageRate	MonitorData	CPU utilization
MemAvailable	MonitorData	Available memory size in GB
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing instance resource usage

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBResourceUsage
&InstanceId=tdsql-ige1a5k3
&StartTime=2018-03-19
&EndTime=2018-03-19
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "MemAvailable": {
      "EndTime": "2018-03-24 23:59:59",
      "Data": [
        1,
        1,
        1
      ],
      "StartTime": "2018-03-24 00:00:00"
```

```
},
"CpuUsageRate": {
  "EndTime": "2018-03-24 23:59:59",
  "Data": [
    1,
    1,
    1
  ],
  "StartTime": "2018-03-24 00:00:00"
},
"RequestId": "32a93b23-cbd8-48a9-a75a-2274625099ca",
"BinlogDiskAvailable": {
  "EndTime": "2018-03-24 23:59:59",
  "Data": [
    1,
    1,
    1
  ],
  "StartTime": "2018-03-24 00:00:00"
},
>DataDiskAvailable": {
  "EndTime": "2018-03-24 23:59:59",
  "Data": [
    1,
    1,
    1
  ],
  "StartTime": "2018-03-24 00:00:00"
}
}
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.FetchMetricDataFailed	Failed to obtain monitoring data.
InternalError.GetInstanceDetailFailed	Failed to get the instance details.
InternalError.InnerSystemError	Internal system error.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.ShardNotExist	The shard does not exist.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBSlowLogs

Last updated : 2023-06-21 15:55:36

1. API Description

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

This API is used to query the list of slow query logs.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDBSlowLogs.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
Offset	Yes	Integer	Data entry number starting from which to return results
Limit	Yes	Integer	Number of results to be returned
StartTime	Yes	Timestamp	Query start time in the format of 2016-07-23 14:55:20
EndTime	No	Timestamp	Query end time in the format of 2016-08-22 14:55:20
Db	No	String	Specific name of the database to be queried

OrderBy	No	String	Sorting metric. Valid values: query_time_sum, query_count
OrderByType	No	String	Sorting order. Valid values: desc, asc
Slave	No	Integer	Query slow queries from either the primary or the replica. Valid values: 0 (primary), 1 (replica)

3. Output Parameters

Parameter Name	Type	Description
Data	Array of SlowLogData	Slow query log data
LockTimeSum	Float	Total statement lock time
QueryCount	Integer	Total number of statement queries
Total	Integer	Total number of results
QueryTimeSum	Float	Total statement query time
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying slow query log list

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBSlowLogs
&InstanceId=tdsql-ige1a5k3
&Offset=0
&Limit=20
&StartTime=2017-08-06 00:00:00
&EndTime=2017-08-07 23:59:59
&Slave=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "LockTimeSum": 0.0,
    "QueryCount": 1,
    "QueryTimeSum": 1.13,
    "RequestId": "1e74e824-6d2b-495d-b347-5250cdf8e964",
    "Total": 1,
    "Data": [
      {
        "Checksum": "14090621765287179955",
        "Db": "",
        "FingerPrint": "replace into sysdb.statustable set ts = from_unixtime(?),ip=?,port=?",
        "LockTimeAvg": "0.00",
        "LockTimeMax": "0.00",
        "LockTimeMin": "0.00",
        "LockTimeSum": "0.00",
        "QueryCount": "1",
        "QueryTimeAvg": "1.13",
        "QueryTimeMax": "1.13",
        "QueryTimeMin": "1.13",
        "QueryTimeSum": "1.13",
        "RowsExaminedSum": "0.00",
        "RowsSentSum": "0.00",
        "TsMax": "2016-08-06 11:32:10",
        "TsMin": "2016-08-06 11:32:10",
        "User": "agent",
        "Host": "10.1.1.1",
        "ExampleSql": ""
      }
    ]
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetInstanceInfoFailed	Failed to get the backend instance information.
InternalServerError.GetSlowLogFailed	Failed to get the error log.
InternalServerError.LogDBFailed	Failed to get the slow log.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.IllegalTime	The time parameter is incorrect.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBPerformance

Last updated : 2022-02-18 11:36:52

1. API Description

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

This API is used to view the current performance data of a database instance.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeDBPerformance.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
StartTime	Yes	Date	Start date in the format of <code>yyyy-mm-dd</code>
EndTime	Yes	Date	End date in the format of <code>yyyy-mm-dd</code>

MetricName	No	String	Name of pulled metric. Valid values: long_query, select_total, update_total, insert_total, delete_total, mem_hit_rate, disk_iops, conn_active, is_master_switched, slave_delay
------------	----	--------	--

3. Output Parameters

Parameter Name	Type	Description
LongQuery	MonitorData	Number of slow queries
SelectTotal	MonitorData	Number of SELECT operations
UpdateTotal	MonitorData	Number of UPDATE operations
InsertTotal	MonitorData	Number of INSERT operations
DeleteTotal	MonitorData	Number of DELETE operations
MemHitRate	MonitorData	Cache hit rate
DiskIops	MonitorData	Number of disk IOs per second
ConnActive	MonitorData	Number of active connections
IsMasterSwitched	MonitorData	Whether primary/secondary switch occurred. 1: yes, 0: no
SlaveDelay	MonitorData	primary/secondary delay
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing instance performance data

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBPerformance
&InstanceId=tdsql-ige1a5k3
&StartTime=2018-03-19
&EndTime=2018-03-19
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "UpdateTotal": {
      "EndTime": "2018-03-24 23:59:59",
      "Data": [
        1,
        1,
        1
      ],
      "StartTime": "2018-03-24 00:00:00"
    },
    "DiskIops": {
      "EndTime": "2018-03-24 23:59:59",
      "Data": [
        1,
        1,
        1
      ],
      "StartTime": "2018-03-24 00:00:00"
    },
    "ConnActive": {
      "EndTime": "2018-03-24 23:59:59",
      "Data": [
        1,
        1,
        1
      ],
      "StartTime": "2018-03-24 00:00:00"
    },
    "MemHitRate": {
      "EndTime": "2018-03-24 23:59:59",
      "Data": [
        1,
        1,
        1
      ],
      "StartTime": "2018-03-24 00:00:00"
    },
    "SelectTotal": {
      "EndTime": "2018-03-24 23:59:59",
      "Data": [
        1,
        1,
        1
      ],

```



```
"StartTime": "2018-03-24 00:00:00"
},
"LongQuery": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"DeleteTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"InsertTotal": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"RequestId": "124581ec-1937-4847-bdea-1a2949e4af9b",
"IsMasterSwitched": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
},
"SlaveDelay": {
"EndTime": "2018-03-24 23:59:59",
"Data": [
1,
1,
1
],
"StartTime": "2018-03-24 00:00:00"
```

```
}  
}  
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.FetchMetricDataFailed	Failed to obtain monitoring data.
InternalServerError.GetInstanceDetailFailed	Failed to get the instance details.
InternalServerError.InnerSystemError	Internal system error.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.

InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameterValue.ShardNotExist	The shard does not exist.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

Backup and Restoration APIs

DescribeDBTmpInstances

Last updated : 2023-09-05 10:26:29

1. API Description

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

This API is used to obtain a temp u200drollback instance.

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: DescribeDBTmpInstances.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID

3. Output Parameters

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

TmplInstances	Array of TmplInstance	Temp instance
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 N/A

Input Example

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

{
  "InstanceId": "xx"
}
```

Output Example

```
{
  "Response": {
    "TmpInstances": [
      {
        "Status": 0,
        "SrcInstanceId": "xx",
        "Zone": "xx",
        "InstanceId": "xx",
        "Region": "xx",
        "TempType": 0,
        "InstanceRemark": "xx",
        "Vip": "xx",
        "AppId": 0,
        "PeriodEndTime": "2020-09-22 00:00:00",
        "Ipv6Flag": 1,
        "Vport": 0,
        "StatusDesc": "xx",
        "Vipv6": "xx",
        "CreateTime": "2020-09-22 00:00:00"
      }
    ]
  }
}
```

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

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
InternalServerError.DbOperationFailed	Failed to query the database.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBLogFiles

Last updated : 2023-06-21 15:55:41

1. API Description

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

This API is used to get the list of various logs of a database, including cold backups, binlogs, errlogs, and slowlogs.

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: DescribeDBLogFiles.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
Type	Yes	Integer	Requested log type. Valid values: 1 (binlog), 2 (cold backup), 3 (errlog), 4 (slowlog).

3. Output Parameters

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

InstanceId	String	Instance ID in the format of <code>tdsql-ow728lmc</code> .
Type	Integer	Requested log type. Valid values: 1 (binlog), 2 (cold backup), 3 (errlog), 4 (slowlog).
Total	Integer	Total number of requested logs
Files	Array of LogFileInfo	Information such as <code>uri</code> , <code>length</code> , and <code>mtime</code> (modification time)
VpcPrefix	String	For an instance in a VPC, this prefix plus URI can be used as the download address
NormalPrefix	String	For an instance in a common network, this prefix plus URI can be used as the download address
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the binlog list

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBLogFiles
&InstanceId=tdsql-ow728lmc
&Type=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "7212a9ec-a235-2144-98d4-59fbe6f14d79",
    "InstanceId": "tdsql-ow728lmc",
    "Type": 1,
    "Total": 1,
    "Files": [
      {
        "Uri": "/1/noshard_108/set_1468578840_203059/1468578832/859932065/000001/5ce7d1a8f26c2dfcf1de22d4e9792b11b0b0057450684d266e1bf9a8aa6ea272",
        "Length": 5253724,
        "Mtime": 1468822981,
```



```
"FileName": "slave-log"
}
],
"VpcPrefix": "http://169.254.0.27:8083",
"NormalPrefix": "http://10.66.255.253:8083"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.CosConfiguration	Invalid COS address configuration.
InternalError.CosSignUrl	Backup file signature failed.
InternalError.DbOperationFailed	Failed to query the database.

InternalError.GetInstanceInfoFailed	Failed to get the backend instance information.
InternalError.HDFSError	Failed to read the backup file.
InternalError.InnerConfigurationMissing	Missing internal configuration.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.ShardResourceIdNotFound	The instance shard does not exist.
ResourceUnavailable.CosApiFailed	An error occurred while calling COS APIs.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeFileDownloadUrl

Last updated : 2023-06-21 15:55:41

1. API Description

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

This API is used to get the download URL of a specific backup or log file of a database.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeFileDownloadUrl.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
FilePath	Yes	String	Unsigned file path

3. Output Parameters

Parameter Name	Type	Description

PreSignedUrl	String	Signed download URL
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 N/A

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeFileDownloadUrl
&InstanceId=tdsql-ow728lmc
&FilePath=/cos_backup/xxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "7212a9ec-a235-2144-98d4-59fbe6f14d79",
    "PreSignedUrl": "https://tdsql-backup-1258415541.cos.ap-guangzhou.myqcloud.com/cos_backup%2ftdsql%2fset_1638329224_11111%2fxtrabackup%2f2021-12-01%2fcos_xtrabackup%2b1638330520%2b20211201%2b114840%2b3019005858%2bxbstream.lz4?sign=q-sign-algorithm%3dsha1%26q-ak%3dAKIDdXui%26q-sign-time%3d1638428235%3b1638429135%26q-key-time%3d1638428235%3b1638429135%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3d41a73685c3cc6f67686587de2962b6"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CosSignUrl	Backup file signature failed.
InternalError.GetInstanceInfoFailed	Failed to get the backend instance information.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.

DescribeBackupFiles

Last updated : 2023-06-21 15:55:41

1. API Description

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

This API is used to query the list of backup files.

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: DescribeBackupFiles.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	No	String	Query by instance ID
BackupType	No	String	Backup type. Valid values: <code>Data</code> (data backup), <code>Binlog</code> (Binlog backup), <code>Errlog</code> (error log), <code>Slowlog</code> (slow log).
StartTime	No	String	Query by start time
EndTime	No	String	Query by end time
Limit	No	Integer	Pagination parameter
Offset	No	Integer	Pagination parameter

OrderBy	No	String	Sorting dimension. Valid values: <code>Time</code> , <code>Size</code> .
OrderType	No	String	Sorting order. Valid values: <code>DESC</code> , <code>ASC</code> .

3. Output Parameters

Parameter Name	Type	Description
Files	Array of InstanceBackupFileItem	List of backup files
TotalCount	Integer	Total number
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 None

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "Files": [
      {
        "BackupType": "Data",
        "EndTime": "2022-05-20 00:02:19",
        "FileName": "cos_xtrabackup+1652976129+20220520+000209+3085636221+xbstream.lz4",
        "FilePath": "cos_backup/tdsql/set_1652843814_8559529/xtrabackup/2022-05-20/cos_xt"
```

```
rabackup+1652976129+20220520+000209+3085636221+xbstream.lz4",
"FileSize": 48721218,
"InstanceId": "tdsql-lyzax5rb",
"InstanceName": "test-name",
"InstanceStatus": 2,
"ManualBackup": 0,
"ShardId": "",
"StartTime": "2022-05-20 00:02:09"
},
{
"BackupType": "Data",
"EndTime": "2022-05-19 00:23:03",
"FileName": "cos_xtrabackup+1652890972+20220519+002252+3085636221+xbstream.lz4",
"FilePath": "cos_backup/tdsql/set_1652843814_8559529/xtrabackup/2022-05-19/cos_xtrabackup+1652890972+20220519+002252+3085636221+xbstream.lz4",
"FileSize": 47738611,
"InstanceId": "tdsql-lyzax5rb",
"InstanceName": "test-name",
"InstanceStatus": 2,
"ManualBackup": 0,
"ShardId": "",
"StartTime": "2022-05-19 00:22:52"
},
{
"BackupType": "Data",
"EndTime": "2022-05-18 11:44:52",
"FileName": "cos_xtrabackup+1652845485+20220518+114445+3085636221+xbstream.lz4",
"FilePath": "cos_backup/tdsql/set_1652843814_8559529/xtrabackup/2022-05-18/cos_xtrabackup+1652845485+20220518+114445+3085636221+xbstream.lz4",
"FileSize": 10281128,
"InstanceId": "tdsql-lyzax5rb",
"InstanceName": "test-name",
"InstanceStatus": 2,
"ManualBackup": 0,
"ShardId": "",
"StartTime": "2022-05-18 11:44:45"
},
{
"BackupType": "Binlog",
"EndTime": "2022-05-20 17:13:31",
"FileName": "binlog+1652843821+20220518+111701+3085636221+binlog.000002.lz4",
"FilePath": "cos_backup/tdsql/set_1652843814_8559529/binlog/2022-05-18/binlog+1652843821+20220518+111701+3085636221+binlog.000002.lz4",
"FileSize": 51119079,
"InstanceId": "tdsql-lyzax5rb",
"InstanceName": "test-name",
"InstanceStatus": 2,
```



```
"ManualBackup": 0,
"ShardId": "",
"StartTime": "2022-05-18 11:17:01"
},
],
"RequestId": "dce77e5f-57b9-4df5-9889-1a4b9f318659",
"TotalCount": 4
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InvalidParameter.ActionNotFound	API not found
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

Account APIs

DescribeAccountPrivileges

Last updated : 2023-06-21 15:55:42

1. API Description

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

This API is used to query the permissions of a TencentDB account.

Note: Accounts with the same username but different hosts are different accounts.

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: DescribeAccountPrivileges.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the form of <code>tdsql-ow728lmc</code> , which can be obtained by querying the instance details through <code>DescribeDBInstances</code> .
UserName	Yes	String	Login username.
Host	Yes	String	Access host allowed for a user. An account is uniquely identified by username and host.

DbName	Yes	String	Database name. <code>*</code> indicates that global permissions will be queried (i.e., <code>*.*</code>), in which case the <code>Type</code> and <code>Object</code> parameters will be ignored.
Type	No	String	Type. Valid values: table, view, proc, func, *. If <code>DbName</code> is a specific database name and <code>Type</code> is <code>*</code> , the permissions of the database will be queried (i.e., <code>db.*</code>), in which case the <code>Object</code> parameter will be ignored.
Object	No	String	Type name. For example, if <code>Type</code> is <code>table</code> , <code>Object</code> indicates a specific table name; if both <code>DbName</code> and <code>Type</code> are specific names, it indicates a specific object name and cannot be <code>*</code> or empty.
ColName	No	String	If <code>Type</code> is <code>table</code> and <code>ColName</code> is <code>*</code> , the permissions of the table will be queried; if <code>ColName</code> is a specific field name, the permissions of the corresponding field will be queried.

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID
Privileges	Array of String	Permission list.
UserName	String	Database account username
Host	String	Database account host
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the global permissions of TencentDB account

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeAccountPrivileges
&InstanceId=tdsql-fdpjf5zh
```

```
&UserName=testuser1
&Host=172.17.%
&DbName=*
&Type=*
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "3381c9e9-d87f-4e21-ba1d-596d6f697a7e",
    "InstanceId": "tdsql-fdpjf5zh",
    "UserName": "testuser1",
    "Host": "172.17.%",
    "Privileges": [
      "SELECT",
      "UPDATE"
    ]
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetRightFailed	Failed to get the current account permissions.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

CreateAccount

Last updated : 2023-06-21 15:55:43

1. API Description

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

This API is used to create a TencentDB account. Multiple accounts can be created for one instance. Accounts with the same username but different hosts are different accounts.

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: CreateAccount.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
UserName	Yes	String	Login username, which can contain 1-32 letters, digits, underscores, and hyphens.
Host	Yes	String	Host that can be logged in to, which is in the same format as the host of the MySQL account and supports wildcards, such as %, 10.%, and 10.20.%.

Password	Yes	String	Account password. It must contain 8-32 characters in all of the following four types: lowercase letters, uppercase letters, digits, and symbols (()<~!@#%&*-+=_[]:;<>,.?/), and cannot start with a slash (/).
ReadOnly	No	Integer	Whether to create a read-only account. 0: no; 1: for the account's SQL requests, the secondary will be used first, and if it is unavailable, the primary will be used; 2: the secondary will be used first, and if it is unavailable, the operation will fail.
Description	No	String	Account remarks, which can contain 0-256 letters, digits, and common symbols.
DelayThresh	No	Integer	Determines whether the secondary is unavailable based on the passed-in time
SlaveConst	No	Integer	Whether to specify a replica server for read-only account. Valid values: <code>0</code> (No replica server is specified, which means that the proxy will select another available replica server to keep connection with the client if the current replica server doesn't meet the requirement). <code>1</code> (The replica server is specified, which means that the connection will be disconnected if the specified replica server doesn't meet the requirement.)
MaxUserConnections	No	Integer	Maximum number of connections. If left empty or <code>0</code> is passed in, the connections will be unlimited. This parameter configuration is not supported for kernel version 10.1.

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID, which is passed through from the input parameters.
UserName	String	Username, which is passed through from the input parameters.
Host	String	Host allowed for access, which is passed through from the input parameters.
ReadOnly	Integer	Passed through from the input parameters.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an account for a TencentDB instance

Input Example

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

{
  "UserName": "testuser1",
  "Description": "Test account",
  "InstanceId": "tdsql-fdpjf5zh",
  "ReadOnly": "0",
  "Host": "172.17.%",
  &Password=1234qweri#
}
```

Output Example

```
{
  "Response": {
    "RequestId": "2cc4e4dc-c3e9-4858-ab80-03e3526cf24d",
    "InstanceId": "tdsql-fdpjf5zh",
    "UserName": "testuser1",
    "Host": "172.17.%",
    "ReadOnly": 0
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateUserFailed	Failed to create the account.
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetUserListFailed	Failed to get the account list.
InvalidParameter	Parameter error.
InvalidParameter.CharacterError	The password contains invalid characters.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameterValue.AccountAlreadyExists	The account to be created already exists.
InvalidParameterValue.SuperUserForbidden	Operations by a system user are not allowed.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceHasBeenLocked	The database instance has been locked. Operations are not allowed.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.

UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.OldProxyVersion	The proxy program is too old. Please contact customer service for upgrade and try again.

GrantAccountPrivileges

Last updated : 2023-06-21 15:55:42

1. API Description

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

This API is used to grant permissions to a TencentDB account.

Note: accounts with the same username but different hosts are different accounts.

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: GrantAccountPrivileges.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
UserName	Yes	String	Login username.
Host	Yes	String	Access host allowed for user. An account is uniquely identified by username and host.
DbName	Yes	String	Database name. <code>*</code> indicates that global permissions will be set (i.e., <code>*.*</code>), in which case the <code>Type</code> and <code>Object</code> parameters will

			be ignored. If <code>DbName</code> is not <code>*</code> , the input parameter <code>Type</code> is required.
Privileges.N	Yes	Array of String	Global permission. Valid values: <code>SELECT</code>, <code>INSERT</code>, <code>UPDATE</code>, <code>DELETE</code>, <code>CREATE</code>, <code>DROP</code>, <code>REFERENCES</code>, <code>INDEX</code>, <code>ALTER</code>, <code>CREATE TEMPORARY TABLES</code>, <code>LOCK TABLES</code>, <code>EXECUTE</code>, <code>CREATE VIEW</code>, <code>SHOW VIEW</code>, <code>CREATE ROUTINE</code>, <code>ALTER ROUTINE</code>, <code>EVENT</code>, <code>TRIGGER</code>, <code>SHOW DATABASES</code>, <code>REPLICATION CLIENT</code>, <code>REPLICATION SLAVE</code>. Database permission. Valid values: <code>SELECT</code>, <code>INSERT</code>, <code>UPDATE</code>, <code>DELETE</code>, <code>CREATE</code>, <code>DROP</code>, <code>REFERENCES</code>, <code>INDEX</code>, <code>ALTER</code>, <code>CREATE TEMPORARY TABLES</code>, <code>LOCK TABLES</code>, <code>EXECUTE</code>, <code>CREATE VIEW</code>, <code>SHOW VIEW</code>, <code>CREATE ROUTINE</code>, <code>ALTER ROUTINE</code>, <code>EVENT</code>, <code>TRIGGER</code>. Table/View permission. Valid values: <code>SELECT</code>, <code>INSERT</code>, <code>UPDATE</code>, <code>DELETE</code>, <code>CREATE</code>, <code>DROP</code>, <code>REFERENCES</code>, <code>INDEX</code>, <code>ALTER</code>, <code>CREATE VIEW</code>, <code>SHOW VIEW</code>, <code>TRIGGER</code>. Stored procedure/function permission. Valid values: <code>ALTER ROUTINE</code>, <code>EXECUTE</code>. Field permission. Valid values: <code>INSERT</code>, <code>REFERENCES</code>, <code>SELECT</code>, <code>UPDATE</code>.
Type	No	String	Type. Valid values: table, view, proc, func, *. If <code>DbName</code> is a specific database name and <code>Type</code> is <code>*</code> , the permissions of the database will be set (i.e., <code>db.*</code>), in which case the <code>Object</code> parameter will be ignored
Object	No	String	Type name. For example, if <code>Type</code> is table, <code>Object</code> indicates a specific table name; if both <code>DbName</code> and <code>Type</code> are specific names, it indicates a specific object name and cannot be <code>*</code> or empty
ColName	No	String	If <code>Type</code> is table and <code>ColName</code> is <code>*</code> , the permissions will be granted to the table; if <code>ColName</code> is a specific field name, the permissions will be granted to the field

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 Granting permissions to a TencentDB account

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=GrantAccountPrivileges
&InstanceId=tdsql-fdpjf5zh
&UserName=testuser1
&Host=172.17.%
&DbName=*
&Type=*
&Privileges.0=select
&Privileges.1=update
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "87201772-351f-4fb5-9164-fe757fbadb79"
  }
}
```

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 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.ModifyRightFailed	Failed to modify account permissions.
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetRightFailed	Failed to get the current account permissions.
InternalError.InnerSystemError	Internal system error.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameterValue.BadUserRight	The specified permission could not be granted to this account.
InvalidParameterValue.IllegalRightParam	Incorrect permission parameters
InvalidParameterValue.SuperUserForbidden	Operations by a system user are not allowed.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeAccounts

Last updated : 2023-06-21 15:55:42

1. API Description

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

This API is used to query the list of accounts of a specified TencentDB instance.

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: DescribeAccounts.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the form of <code>tdsql-ow728lmc</code> , which can be obtained by querying the instance details through <code>DescribeDBInstances</code> .

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID, which is passed through from the input parameters.

Users	Array of DBAccount	Instance user list.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 None

Input Example

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

{
  "InstanceId": "tdsql-lyzax5rb"
}
```

Output Example

```
{
  "Response": {
    "InstanceId": "tdsql-lyzax5rb",
    "RequestId": "8da4cad2-3f97-41b5-8ef5-a1d3d61e1fdb",
    "Users": [
      {
        "CreateTime": "2022-03-24 15:39:02",
        "DelayThresh": 0,
        "Description": "",
        "Host": "%",
        "ReadOnly": 0,
        "UpdateTime": "2022-03-24 15:39:02",
        "UserName": "h1"
      }
    ]
  }
}
```


5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetUserListFailed	Failed to get the account list.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ResetAccountPassword

Last updated : 2023-06-21 15:55:41

1. API Description

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

This API is used to reset the password of a TencentDB account.

Note: accounts with the same username but different hosts are different accounts.

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: ResetAccountPassword.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
UserName	Yes	String	Login username.
Host	Yes	String	Access host allowed for user. An account is uniquely identified by username and host.
Password	Yes	String	New password, which can contain 6-32 letters, digits, and common symbols but not semicolons, single quotation marks, and double quotation marks.

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 the password of a TencentDB account

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ResetAccountPassword
&InstanceId=tdsql-fdpjf5zh
&UserName=testuser1
&Host=172.17.%
&Password=abcd8765_.
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "c7b1680d-db03-4f20-8684-a865ce7bcd38"
  }
}
```

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.ResetPasswordFailed	Failed to reset the account password.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.CharacterError	The password contains invalid characters.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceHasBeenLocked	The database instance has been locked. Operations are not allowed.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

CopyAccountPrivileges

Last updated : 2023-06-21 15:55:43

1. API Description

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

This API is used to copy the permissions of a TencentDB account.

Note: accounts with the same username but different hosts are different accounts. Permissions can only be copied between accounts with the same `Readonly` attribute.

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: CopyAccountPrivileges.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
SrcUserName	Yes	String	Source username
SrcHost	Yes	String	Access host allowed for source user
DstUserName	Yes	String	Target username

DstHost	Yes	String	Access host allowed for target user
SrcReadOnly	No	String	<code>ReadOnly</code> attribute of source account
DstReadOnly	No	String	<code>ReadOnly</code> attribute of target account

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 Copying the permissions of a TencentDB account

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=CopyAccountPrivileges
&InstanceId=tdsql-fdpjf5zh
&DstUserName=testuser2
&DstHost=%
&SrcUserName=testuser1
&SrcHost=172.17.%
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "95208d7c-66dc-446c-bc03-856738604611"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CopyRightError	An error occurred while copying account permissions.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameterValue.BadUserType	Invalid account type.
ResourceNotFound.AccountDoesNotExist	The specified account does not exist.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceHasBeenLocked	The database instance has been locked. Operations are not allowed.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifyAccountDescription

Last updated : 2023-06-21 15:55:42

1. API Description

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

This API is used to modify the remarks of a TencentDB account.

Note: accounts with the same username but different hosts are different accounts.

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: ModifyAccountDescription.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
UserName	Yes	String	Login username.
Host	Yes	String	Access host allowed for user. An account is uniquely identified by username and host.
Description	Yes	String	New account remarks, which can contain 0-256 characters.

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 the remarks of a TencentDB account

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyAccountDescription
&InstanceId=tdsql-fdpjf5zh
&UserName=testuser1
&Host=172.17.%
&Description=Test account
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "aef9be24-4d49-4358-8022-3405a361fd3b"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceNotFound.AccountDoesNotExist	The specified account does not exist.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DeleteAccount

Last updated : 2023-06-21 15:55:43

1. API Description

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

This API is used to delete a TencentDB account, which is uniquely identified by username and host.

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: DeleteAccount.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which is in the format of <code>tdsql-ow728lmc</code> and can be obtained through the <code>DescribeDBInstances</code> API.
UserName	Yes	String	Username
Host	Yes	String	Access host allowed for user

3. Output Parameters

--	--	--

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

4. Example

Example1 Deleting a TencentDB account

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DeleteAccount
&InstanceId=tdsql-fdpjf5zh
&UserName=testuser1
&Host=172.17.%
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "d9405fe4-65af-4936-a465-038578636567"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DeleteUserFailed	Failed to delete the account.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameterValue.SuperUserForbidden	Operations by a system user are not allowed.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceHasBeenLocked	The database instance has been locked. Operations are not allowed.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

CloneAccount

Last updated : 2023-06-21 15:55:43

1. API Description

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

This API is used to clone an instance account.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CloneAccount.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
SrcUser	Yes	String	Source user account name
SrcHost	Yes	String	Source user host
DstUser	Yes	String	Target user account name
DstHost	Yes	String	Target user host
DstDesc	No	String	Target account description

3. Output Parameters

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

4. Example

Example1 Cloning an existing account

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=CloneAccount
&InstanceId=tdsql-6a0lwzzj
&SrcUser=testuser
&SrcHost=10.10.10.%
&DstUser=testuser
&DstHost=10.10.20.%
&DstDesc=testclone
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "dc521928-4651-44ac-81f0-7c8acdd8b73e",
    "FlowId": 4123
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.CamAuthFailed	CAM authentication request failed.
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetUserListFailed	Failed to get the account list.
InvalidParameter	Parameter error.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
InvalidParameterValue.AccountAlreadyExists	The account to be created already exists.
InvalidParameterValue.SuperUserForbidden	Operations by a system user are not allowed.
ResourceNotFound.AccountDoesNotExist	The specified account does not exist.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.InvalidOperation	The operation is not supported.

ModifyAccountPrivileges

Last updated : 2023-06-21 15:55:41

1. API Description

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

This API is used to modify the permissions of a TencentDB instance account. \n\n**Note**\n-Only the SELECT permission (that is, set the permission parameter to `["SELECT"]`) of the system database `mysql` can be granted. An error will be reported if read-write permissions are granted to a read-only account. If the parameter is not passed in, no change will be made to the granted table permissions. To clear the granted view permissions, set `Privileges` to an empty array.

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: ModifyAccountPrivileges.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of tdsq1-c1n19rpv. It is the same as the instance ID displayed in the TencentDB console.
Accounts.N	Yes	Array of Account	Database account, including username and host

			address.
GlobalPrivileges.N	No	Array of String	Global permission. Valid values of GlobalPrivileges : "SELECT" , "INSERT" , "UPDATE" , "DELETE" , "CREATE" , "PROCESS" , "DROP" , "REFERENCES" , "INDEX" , "ALTER" , "SHOW DATABASES" , "CREATE TEMPORARY TABLES" , "LOCK TABLES" , "EXECUTE" , "CREATE VIEW" , "SHOW VIEW" , "CREATE ROUTINE" , "ALTER ROUTINE" , "EVENT" , "TRIGGER" . Note: if the parameter is left empty, no change will be made to the granted global permissions. To clear the granted global permissions, set the parameter to an empty array.
DatabasePrivileges.N	No	Array of DatabasePrivilege	Database permission. Valid values of Privileges : "SELECT" , "INSERT" , "UPDATE" , "DELETE" , "CREATE" , "DROP" , "REFERENCES" , "INDEX" , "ALTER" , "CREATE TEMPORARY TABLES" , "LOCK TABLES" , "EXECUTE" , "CREATE VIEW" , "SHOW VIEW" , "CREATE ROUTINE" , "ALTER ROUTINE" , "EVENT" , "TRIGGER" . Note: if the parameter is left empty, no change will be made to the granted database permissions. To clear the granted database permissions, set Privileges to an empty array.
TablePrivileges.N	No	Array of TablePrivilege	Database table permission. Valid values of Privileges : SELECT , INSERT , UPDATE , DELETE , CREATE , DROP , REFERENCES , INDEX , ALTER , CREATE VIEW , SHOW VIEW , TRIGGER . Note: if the parameter is not passed in, no change will be made to the granted table permissions. To clear the granted table permissions, set Privileges to an empty array.
ColumnPrivileges.N	No	Array of	Column permission. Valid values of

		ColumnPrivilege	<code>Privileges</code> : "SELECT" , "INSERT" , "UPDATE" , "REFERENCES" . Note: if the parameter is left empty, no change will be made to the granted column permissions. To clear the granted column permissions, set <code>Privileges</code> to an empty array.
ViewPrivileges.N	No	Array of ViewPrivileges	Database view permission. Valid values of <code>Privileges</code> : SELECT , INSERT , UPDATE , DELETE , CREATE , DROP , REFERENCES , INDEX , ALTER , CREATE VIEW , SHOW VIEW , TRIGGER . Note: if the parameter is not passed in, no change will be made to the granted view permissions. To clear the granted view permissions, set <code>Privileges</code> to an empty array.
FunctionPrivileges.N	No	Array of FunctionPrivilege	Database function permissions. Valid values of <code>Privileges</code> : ALTER ROUTINE , EXECUTE . Note: if the parameter is not passed in, no change will be made to the granted function permissions. To clear the granted function permissions, set <code>Privileges</code> to an empty array.
ProcedurePrivileges.N	No	Array of ProcedurePrivilege	Database stored procedure permission. Valid values of <code>Privileges</code> : ALTER ROUTINE , EXECUTE . Note: if the parameter is not passed in, no change will be made to the granted stored procedure permissions. To clear the granted stored procedure permissions, set <code>Privileges</code> to an empty array.

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID, which can be used in the DescribeFlow API to query the async task

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

4. Example

Example1 Modifying the permissions of a TencentDB instance account

This example shows you how to modify the permissions of a TencentDB instance account.

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyAccountPrivileges&InstanceId=tdsql-f35wr6wj&Accounts.0.User=ajnnw&GlobalPrivileges.0=SELECT&Accounts.0.Host=127.0.0.1&<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
    "FlowId": 145623
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.CreateFlowFailed	Failed to create the flow.
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.BadUserRight	The specified permission could not be granted to this account.
ResourceUnavailable.InstanceHasBeenLocked	The database instance has been locked. Operations are not allowed.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

Security Group APIs

ModifyDBInstanceSecurityGroups

Last updated : 2022-01-27 10:36:32

1. API Description

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

This API is used to modify the security groups associated with TencentDB.

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](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: ModifyDBInstanceSecurityGroups.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
Product	Yes	String	Database engine name. Valid value: <code>mariadb</code> .
InstanceId	Yes	String	Instance ID
SecurityGroupIds.N	Yes	Array of	List of IDs of security groups to be modified, which is an array

		String	of one or more security group IDs.
--	--	--------	------------------------------------

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 Sample 1. Modifying the security groups associated with TencentDB

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifyDBInstanceSecurityGroups
&Product=mariadb
&InstanceId=tdsql-eb2w7dto
&SecurityGroupIds.0=sg-ajr1jzgj
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "31a60135-7057-47ae-8fd3-7a0617deca38"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.AddInstanceInfoFailed	Failed to add the security group information of an instance.
FailedOperation.AuthNoStrategy	Authentication failed.
FailedOperation.ClearInstanceInfoFailed	Failed to clear the security group information of an instance.
FailedOperation.DisassociateSecurityGroupsFailed	Failed to unassociate the security group.
FailedOperation.SetRuleLocationFailed	Failed to set a rule.
FailedOperation.UpdateInstanceInfoFailed	Failed to update the security group information of an instance.
InternalError.GetSecurityGroupDetailFailed	Failed to query security group details.
InternalError.InstanceOperatePermissionError	You have no permission to operate this instance.
InternalError.InstanceSGOverLimitError	The maximum number of security groups with which a single instance can associate has been reached.
InternalError.ListInstanceRespResourceCountNotMatchError	The number of resources returned is inconsistent with the number specified in the

	request of querying instance information.
InternalServerError.ListInstancesError	An error occurred when querying an instance.
InternalServerError.QueryDatabaseFailed	An error occurred when reading data from the database.
InternalServerError.ReadDatabaseFailed	An error occurred when reading data from the database.
InternalServerError.SetSvcLocationFailed	The security group policy of the resource failed to take effect.
InvalidParameter	Parameter error.
InvalidParameter.IllegalParameterError	Invalid parameters
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceNotFound.ProductConfigNotExistedError	Failed to find the configuration of the product associated with the security group.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DisassociateSecurityGroups

Last updated : 2023-06-21 15:55:33

1. API Description

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

This API is used to unassociate security groups from instances in batches.

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: DisassociateSecurityGroups.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
Product	Yes	String	Database engine name. Valid value: <code>mariadb</code> .
SecurityGroupId	Yes	String	Security group ID
InstanceIds.N	Yes	Array of String	Instance ID list, which is an array of one or more instance IDs.

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

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DisassociateSecurityGroups
&Product=mariadb
&SecurityGroupId=sg-xxxxxxx
&InstanceIds.0=tdsql-xxxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "8ce27ff0-7fe1-11ea-8469-525400542aa6"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.AddInstanceInfoFailed	Failed to add the security group information of an instance.
FailedOperation.AssociateSecurityGroupsFailed	Failed to associate the security group.
FailedOperation.AuthNoStrategy	Authentication failed.
FailedOperation.ClearInstanceInfoFailed	Failed to clear the security group information of an instance.
FailedOperation.DisassociateSecurityGroupsFailed	Failed to unassociate the security group.
FailedOperation.SetRuleLocationFailed	Failed to set a rule.
FailedOperation.UpdateInstanceInfoFailed	Failed to update the security group information of an instance.
InternalServerError.InstanceOperatePermissionError	You have no permission to operate this instance.
InternalServerError.ListInstancesError	An error occurred when querying an instance.
InternalServerError.QueryDatabaseFailed	An error occurred when reading data from the database.
InternalServerError.ReadDatabaseFailed	An error occurred when reading data from the database.
InternalServerError.RouteNotFound	Route not found.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.PermissionDenied	You have no permission to manipulate this API or resource.
ResourceNotFound.ProductConfigNotExistedError	Failed to find the configuration of the product associated with the security group.

ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeProjectSecurityGroups

Last updated : 2023-06-21 15:55:33

1. API Description

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

This API is used to query the security group details of a project.

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: DescribeProjectSecurityGroups.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
Product	Yes	String	Database engine name. Valid value: <code>mariadb</code> .
ProjectId	No	Integer	Project ID

3. Output Parameters

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

Groups	Array of SecurityGroup	Security group details
Total	Integer	Total number of security groups.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample 1. Querying the security group details of a project

Input Example

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

{
  "ProjectId": "11988",
  "Product": "mariadb"
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "RequestId": "31a60135-7057-47ae-8fd3-7a0617deca38",
    "Groups": [
      {
        "ProjectId": 11988,
        "CreateTime": "2017-04-13 15:00:06",
        "Inbound": [
          {
            "Action": "",
            "CidrIp": "",
            "PortRange": "",
            "IpProtocol": ""
          }
        ],
        "Outbound": [
```

```
{
  "Action": "",
  "CidrIp": "",
  "PortRange": "",
  "IpProtocol": ""
},
{
  "SecurityGroupId": "sg-ajr1jzg",
  "SecurityGroupName": "mariadb",
  "SecurityGroupRemark": ""
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description

AuthFailure	CAM signature/authentication error
FailedOperation.GetSecurityGroupDetailFailed	Failed to query the security group details
InternalError.GetUserSGCountFailed	Failed to get the number of security groups
InvalidParameter.IllegalParameterError	Invalid parameters

DescribeDBSecurityGroups

Last updated : 2023-06-21 15:55:33

1. API Description

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

This API is used to query the security group details of an instance.

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: DescribeDBSecurityGroups.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
Product	Yes	String	Database engine name. Valid value: <code>mariadb</code> .
InstanceId	Yes	String	Instance ID

3. Output Parameters

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

Groups	Array of SecurityGroup	Security group details
VIP	String	Instance VIP Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
VPort	Integer	Instance port Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Example 1. Querying the security group information of an instance

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDBSecurityGroups
&Product=mariadb
&InstanceId=tdsql-eb2w7dto
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "VIP": "10.0.0.7",
    "VPort": "3306",
    "RequestId": "31a60135-7057-47ae-8fd3-7a0617deca38",
    "Groups": [
      {
        "ProjectId": 0,
        "CreateTime": "",
        "Inbound": [
          {
            "Action": "",
            "CidrIp": "",
            "PortRange": "",
            "IpProtocol": ""
          }
        ]
      }
    ]
  }
}
```

```
"Outbound": [
{
  "Action": "",
  "CidrIp": "",
  "PortRange": "",
  "IpProtocol": ""
},
],
"SecurityGroupId": "",
"SecurityGroupName": "",
"SecurityGroupRemark": "mariadb"
}
]
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

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

AuthFailure	CAM signature/authentication error
FailedOperation.AuthNoStrategy	Authentication failed.
InternalError.GetSecurityGroupDetailFailed	Failed to query security group details.
InternalError.InstanceOperatePermissionError	You have no permission to operate this instance.
InternalError.ListInstanceRespResourceCountNotMatchError	The number of resources returned is inconsistent with the number specified in the request of querying instance information.
InternalError.ListInstancesError	An error occurred when querying an instance.
InternalError.QueryDatabaseFailed	An error occurred when reading data from the database.
InternalError.ReadDatabaseFailed	An error occurred when reading data from the database.
InternalError.RouteNotFound	Route not found.
InvalidParameter	Parameter error.
InvalidParameter.IllegalParameterError	Invalid parameters
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.PermissionDenied	You have no permission to manipulate this API or resource.
InvalidParameterValue.InvalidParameterValueError	Parameter verification error.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.ProductConfigNotExistedError	Failed to find the configuration of the product associated with the security group.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

AssociateSecurityGroups

Last updated : 2023-06-21 15:55:34

1. API Description

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

This API is used to associate security groups with Tencent Cloud resources in batches.

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: AssociateSecurityGroups.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
Product	Yes	String	Database engine name. Valid value: <code>mariadb</code> .
SecurityGroupId	Yes	String	ID of the security group to be associated in the format of sg-efil73jd.
InstanceIds.N	Yes	Array of String	ID(s) of the instance(s) to be associated in the format of tdsq-lsecurk. You can specify multiple instances.

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 None

Input Example

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

{
  "Product": "mariadb",
  "SecurityGroupId": "sg-xxxxxx",
  "InstanceIds": [
    "tdsql-xxxxxx"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "8ce27ff0-7fe1-11ea-8469-525400542aa6"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.AddInstanceInfoFailed	Failed to add the security group information of an instance.
FailedOperation.AssociateSecurityGroupsFailed	Failed to associate the security group.
FailedOperation.AuthNoStrategy	Authentication failed.
FailedOperation.ClearInstanceInfoFailed	Failed to clear the security group information of an instance.
FailedOperation.DisassociateSecurityGroupsFailed	Failed to unassociate the security group.
FailedOperation.SetRuleLocationFailed	Failed to set a rule.
FailedOperation.SetSvcLocationFailed	Failed to publish security group rules
FailedOperation.UpdateInstanceInfoFailed	Failed to update the security group information of an instance.
InternalError.DBRowsAffectedError	No database data has changed.
InternalError.GetSecurityGroupDetailFailed	Failed to query security group details.

InternalError.GetUsgQuotaError	Failed to query the security group quota of the user.
InternalError.InsertFail	Failed to insert data into the database.
InternalError.InstanceOperatePermissionError	You have no permission to operate this instance.
InternalError.InstanceSGOverLimitError	The maximum number of security groups with which a single instance can associate has been reached.
InternalError.ListInstanceRespResourceCountNotMatchError	The number of resources returned is inconsistent with the number specified in the request of querying instance information.
InternalError.ListInstancesError	An error occurred when querying an instance.
InternalError.QueryDatabaseFailed	An error occurred when reading data from the database.
InternalError.ReadDatabaseFailed	An error occurred when reading data from the database.
InternalError.SetSvcLocationFailed	The security group policy of the resource failed to take effect.
InternalError.UpdateDatabaseFailed	Failed to update the database.
InvalidParameter	Parameter error.
InvalidParameter.IllegalParameterError	Invalid parameters
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.PermissionDenied	You have no permission to manipulate this API or resource.
InvalidParameter.SGCheckFail	Security group validity test failed.
ResourceNotFound.ProductConfigNotExistedError	Failed to find the configuration of the product associated with the security group.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
ResourceUnavailable.SGCheckFail	Failed to verify the security group
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API

or resource.

Other APIs

DescribeDatabases

Last updated : 2023-06-21 15:55:35

1. API Description

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

This API is used to query the database list of a TencentDB instance.

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: DescribeDatabases.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>dcdbt-ow7t8lmc</code> .

3. Output Parameters

Parameter Name	Type	Description

Databases	Array of Database	The database list of this instance.
InstanceId	String	Passed through from input parameters.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying instance database list

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDatabases
&InstanceId=tdsql-e9tklsgz
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Databases": [
      {
        "DbName": "information_schema"
      },
      {
        "DbName": "mysql"
      },
      {
        "DbName": "performance_schema"
      },
      {
        "DbName": "test"
      }
    ],
    "InstanceId": "tdsql-e9tklsgz",
    "RequestId": "86cb12ed-0e1f-416c-99a6-79f83a8fd31e"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.DbOperationFailed	Failed to query the database.
InternalServerError.GetDbListFailed	Failed to get the database list.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

KillSession

Last updated : 2023-06-21 15:55:35

1. API Description

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

This API is used to kill the specified session.

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: KillSession.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
SessionId.N	Yes	Array of Integer	List of session IDs

3. Output Parameters

--	--	--

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

4. Example

Example1 Killing the specified session

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=KillSession
&InstanceId=tdsql-2gk4nxyz
&SessionId.0=1111
&SessionId.1=2222
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "14f6980a-7fe1-11ea-b896-525400542aa6",
    "TaskId": 11
  }
}
```

5. Developer Resources

SDK

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

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- [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
FailedOperation.OssOperationFailed	Failed to request the backend API.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

ModifySyncTaskAttribute

Last updated : 2023-06-21 15:55:35

1. API Description

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

This API is used to modify sync task attributes (currently, only the task name can 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: ModifySyncTaskAttribute.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
TaskIds.N	Yes	Array of String	IDs of tasks for which to modify the attributes. The IDs can be obtained by the return value of the <code>DescribeSyncTasks</code> API. Up to 100 tasks can be operated at a time.
TaskName	No	String	Task name. You can specify any name you like, but its length cannot exceed 100 characters.

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 Sample 1. Renaming a task

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=ModifySyncTaskAttribute
&TaskIds.0=1001
&TaskName=Data analysis sync task
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "7f642839-f40d-4faf-8d84-be7894ce048a"
  }
}
```

5. Developer Resources

SDK

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

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError.OperateDatabaseFailed	Database operation failed.
ResourceNotFound.SyncTaskDeleted	The sync task has been deleted.

DescribeDatabaseTable

Last updated : 2023-06-21 15:55:35

1. API Description

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

This API is used to query the table information of a TencentDB instance.

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: DescribeDatabaseTable.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>dcdbt-ow7t8lmc</code> .
DbName	Yes	String	Database name, which can be obtained through the <code>DescribeDatabases</code> API.
Table	Yes	String	Table name, which can be obtained through the <code>DescribeDatabaseObjects</code> API.

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance name.
DbName	String	Database name.
Table	String	Table name.
Cols	Array of TableColumn	Column information.
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 structure of specified instance

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDatabaseTable
&InstanceId=tdsql-e9tklsgz
&DbName=test
&Table=region
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Cols": [
      {
        "Col": "id",
        "Type": "tinyint(4) unsigned"
      },
      {
        "Col": "name",
        "Type": "varchar(16) "
      },
      {
        "Col": "short_name",
        "Type": "varchar(8) "
      },
    ],
  },
}
```

```
{
  "Col": "code",
  "Type": "varchar(256)"
},
{
  "DbName": "test",
  "InstanceId": "tdsql-e9tklsgz",
  "RequestId": "2de52957-ebe4-4d7b-8985-4e415b3fb360",
  "Table": "region"
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.DbOperationFailed	Failed to query the database.

InternalError.GetTableInfoFailed	Failed to get the table structure.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDatabaseObjects

Last updated : 2023-06-21 15:55:36

1. API Description

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

This API is used to query the list of database objects in a TencentDB instance, including tables, stored procedures, views, and functions.

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: DescribeDatabaseObjects.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>dcdbt-ow7t8lmc</code> .
DbName	Yes	String	Database name, which can be obtained through the <code>DescribeDatabases</code> API.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
InstanceId	String	Passed through from input parameters.
DbName	String	Database name.
Tables	Array of DatabaseTable	Table list.
Views	Array of DatabaseView	View list.
Procs	Array of DatabaseProcedure	Stored procedure list.
Funcs	Array of DatabaseFunction	Function list.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying instance table objects

Input Example

```
https://mariadb.tencentcloudapi.com/?Action=DescribeDatabaseObjects
&InstanceId=tdsql-e9tklsgz
&DbName=test
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "DbName": "test",
    "Funcs": [],
    "InstanceId": "tdsql-e9tklsgz",
    "Procs": [
      {
        "Proc": "AddGeometryColumn"
      },
    ],
  },
}
```

```
{
  "Proc": "DropGeometryColumn"
},
{
  "RequestId": "a70c33e5-0c38-43a0-9953-234accd84d2a",
  "Tables": [
    {
      "Table": "region"
    }
  ],
  "Views": []
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.CamAuthFailed	CAM authentication request failed.

InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetDbObjectFailed	Failed to get the database object.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.

DescribeDBEncryptAttributes

Last updated : 2023-09-05 10:26:28

1. API Description

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

This API is used to query the encryption status of the instance 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: DescribeDBEncryptAttributes.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code>

3. Output Parameters

Parameter Name	Type	Description
EncryptStatus	Integer	Whether encryption is enabled. Valid values: <code>1</code> (enabled), <code>2</code> (disabled).

CipherText	String	DEK key
ExpireDate	String	DEK key expiration date
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 None

Input Example

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

{
  "InstanceId": "tdsql-lyzax5rb"
}
```

Output Example

```
{
  "Response": {
    "CipherText": "",
    "EncryptStatus": 0,
    "ExpireDate": "1970-01-01",
    "RequestId": "7c04c9f9-4b1b-4eed-ac21-45d1d8a261f4"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalServerError	Internal error.
InternalServerError.GetCipherTextFailed	Failed to get the database encryption key
InternalServerError.OperateDatabaseFailed	Database operation failed.
InvalidParameter	Parameter error.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.InvalidOperation	The operation is not supported.

ModifyDBEncryptAttributes

Last updated : 2023-04-18 11:04:13

1. API Description

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

This API is used to modify the instance data encryption.

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: ModifyDBEncryptAttributes.
Version	Yes	String	Common Params . The value used for this API: 2017-03-12.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID in the format of <code>tdsql-ow728lmc</code>
EncryptEnabled	Yes	Integer	Whether to enable the data encryption (Once enabled, it can't be disabled). Valid values: <code>1</code> (Yes), <code>0</code> (No. Default)

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 None

This example shows you how to enable the transparent data encryption for an instance.

Input Example

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

{
  "InstanceId": "tdsql-xxx",
  "EncryptEnabled": 0
}
```

Output Example

```
{
  "Response": {
    "RequestId": "afb70c41-025e-4cec-bec3-6207a5d635d6"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OssOperationFailed	Failed to request the backend API.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.OperateDatabaseFailed	Database operation failed.
InvalidParameter	Parameter error.
ResourceUnavailable.BadInstanceStatus	Unable to initialize the instance due to incorrect status.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceHasBeenLocked	The database instance has been locked. Operations are not allowed.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.InvalidOperation	The operation is not supported.

Data Types

Last updated : 2023-09-05 10:26:29

Account

TencentDB account information

Used by actions: ModifyAccountPrivileges.

Name	Type	Required	Description
User	String	Yes	Account name
Host	String	Yes	Host address

ColumnPrivilege

Column permission information

Used by actions: ModifyAccountPrivileges.

Name	Type	Required	Description
Database	String	Yes	Database name
Table	String	Yes	Table name
Column	String	Yes	Column name
Privileges	Array of String	Yes	Permission information

ConstraintRange

Range of constraint type values

Used by actions: DescribeDBParameters.

Name	Type	Description
Min	String	Minimum value when the constraint type is <code>section</code>

Max	String	Maximum value when the constraint type is <code>section</code>
-----	--------	--

DBAccount

TencentDB account information

Used by actions: DescribeAccounts.

Name	Type	Description
UserName	String	Username
Host	String	Host from which a user can log in (corresponding to the <code>host</code> field for a MySQL user; a user is uniquely identified by username and host; this parameter is in IP format and ends with % for IP range; % can be entered; if this parameter is left empty, % will be used by default).
Description	String	User remarks
CreateTime	Timestamp	Creation time
UpdateTime	Timestamp	Last updated time
ReadOnly	Integer	Read-only flag. 0: no; 1: for the account's SQL requests, the replica will be used first, and if it is unavailable, the primary will be used; 2: the replica will be used first, and if it is unavailable, the operation will fail.
DelayThresh	Integer	This field is meaningful for read-only accounts, indicating that a replica should be selected if its delay from the primary is less than this value. Note: This field may return null, indicating that no valid values can be obtained.
SlaveConst	Integer	Whether to specify a replica server for read-only account. Valid values: <code>0</code> (No replica server is specified, which means that the proxy will select another available replica server to keep connection with the client if the current replica server doesn't meet the requirement). <code>1</code> (The replica server is specified, which means that the connection will be disconnected if the specified replica server doesn't meet the requirement.)
MaxUserConnections	Integer	Maximum number of connections. <code>0</code> indicates no limit.

DBInstance

TencentDB instance details.

Used by actions: DescribeDBInstances.

Name	Type	Description
InstanceId	String	Instance ID, which uniquely identifies a TDSQL instance
InstanceName	String	Customizable instance name
AppId	Integer	Application ID of instance
ProjectId	Integer	Project ID of instance
Region	String	Instance region name, such as ap-shanghai
Zone	String	Instance AZ name, such as ap-guangzhou-1
VpcId	Integer	VPC ID, which is 0 if the basic network is used
SubnetId	Integer	Subnet ID, which is 0 if the basic network is used
Status	Integer	Instance status. Valid values: <code>0</code> (creating), <code>1</code> (running task), <code>2</code> (running), <code>3</code> (uninitialized), <code>-1</code> (isolated), <code>4</code> (initializing), <code>5</code> (eliminating), <code>6</code> (restarting), <code>7</code> (migrating data)
Vip	String	Private IP address
Vport	Integer	Private network port
WanDomain	String	Domain name for public network access, which can be resolved by the public network
WanVip	String	Public IP address, which can be accessed over the public network
WanPort	Integer	Public network port
CreateTime	Timestamp	Instance creation time in the format of <code>2006-01-02 15:04:05</code>
UpdateTime	Timestamp	Last updated time of instance in the format of <code>2006-01-02 15:04:05</code>
AutoRenewFlag	Integer	Auto-renewal flag. 0: no, 1: yes
PeriodEndTime	Timestamp	Instance expiration time in the format of <code>2006-01-02 15:04:05</code>
Uin	String	Instance account
TdsqVersion	String	TDSQL version information

Memory	Integer	Instance memory size in GB
Storage	Integer	Instance storage capacity in GB
UniqueVpcId	String	VPC ID in string type
UniqueSubnetId	String	VPC subnet ID in string type
OriginSerialId	String	Original ID of instance (this field is obsolete and should not be depended on)
NodeCount	Integer	Number of nodes. 2: one master and one slave, 3: one master and two slaves
IsTmp	Integer	Whether it is a temp instance. 0: no, non-zero value: yes
ExclusterId	String	Dedicated cluster ID. If this parameter is empty, the instance is a general instance
Id	Integer	Numeric ID of instance (this field is obsolete and should not be depended on)
Pid	Integer	Product type ID
Qps	Integer	Maximum QPS value
Paymode	String	Billing mode Note: this field may return null, indicating that no valid values can be obtained.
Locker	Integer	Async task flow ID when an async task is in progress on an instance Note: this field may return null, indicating that no valid values can be obtained.
StatusDesc	String	Current instance running status description Note: this field may return null, indicating that no valid values can be obtained.
WanStatus	Integer	Public network access status. 0: not enabled, 1: enabled, 2: disabled, 3: enabling
IsAuditSupported	Integer	Whether the instance supports audit. 1: yes, 0: no
Machine	String	Model
IsEncryptSupported	Integer	Whether data encryption is supported. 1: yes, 0: no
Cpu	Integer	Number of CPU cores of instance

Ipv6Flag	Integer	Indicates whether the instance uses IPv6 Note: this field may return null, indicating that no valid values can be obtained.
Vipv6	String	Private network IPv6 address Note: this field may return null, indicating that no valid values can be obtained.
WanVipv6	String	Public network IPv6 address Note: this field may return null, indicating that no valid values can be obtained.
WanPortIpv6	Integer	Public network IPv6 port Note: this field may return null, indicating that no valid values can be obtained.
WanStatusIpv6	Integer	Public network IPv6 status Note: this field may return null, indicating that no valid values can be obtained.
DbEngine	String	Database engine Note: this field may return null, indicating that no valid values can be obtained.
DbVersion	String	Database version Note: this field may return null, indicating that no valid values can be obtained.
DcnFlag	Integer	DCN type. Valid values: 0 (null), 1 (primary instance), 2 (disaster recovery instance) Note: this field may return null, indicating that no valid values can be obtained.
DcnStatus	Integer	DCN status. Valid values: 0 (null), 1 (creating), 2 (syncing), 3 (disconnected) Note: this field may return null, indicating that no valid values can be obtained.
DcnDstNum	Integer	The number of DCN disaster recovery instances Note: this field may return null, indicating that no valid values can be obtained.
InstanceType	Integer	Instance type. Valid values: 1 (dedicated primary instance), 2 (primary instance), 3 (disaster recovery instance), and 4 (dedicated disaster recovery instance). Note: this field may return null, indicating that no valid values can be obtained.

ResourceTags	Array of ResourceTag	Instance tag information Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
DbVersionId	String	Database version Note: This field may return null, indicating that no valid values can be obtained.

DBParamValue

TencentDB parameter information.

Used by actions: CreateDBInstance, CreateHourDBInstance, ModifyDBParameters.

Name	Type	Required	Description
Param	String	Yes	Parameter name
Value	String	Yes	Parameter value

DCNReplicaConfig

DCN configuration

Used by actions: DescribeDBInstanceDetail, DescribeDcnDetail.

Name	Type	Description
RoReplicationMode	String	DCN running status. Valid values: <code>START</code> (running), <code>STOP</code> (pause) Note: This field may return null, indicating that no valid values can be obtained.
DelayReplicationType	String	Delayed replication type. Valid values: <code>DEFAULT</code> (no delay), <code>DUE_TIME</code> (specified replication time) Note: This field may return null, indicating that no valid values can be obtained.
DueTime	String	Specified time for delayed replication Note: This field may return null, indicating that no valid values can be obtained.
ReplicationDelay	Integer	The number of seconds to delay the replication Note: This field may return null, indicating that no valid values can be

		obtained.
--	--	-----------

DCNReplicaStatus

DCN status information

Used by actions: DescribeDBInstanceDetail, DescribeDcnDetail.

Name	Type	Description
Status	String	DCN running status. Valid values: <code>START</code> (running), <code>STOP</code> (pause). Note: This field may return null, indicating that no valid values can be obtained.
Delay	Integer	The current delay, which takes the delay value of the replica instance.

Database

Database information

Used by actions: DescribeDatabases.

Name	Type	Description
DbName	String	Database name

DatabaseFunction

Database function information

Used by actions: DescribeDatabaseObjects.

Name	Type	Description
Func	String	Function name

DatabasePrivilege

Database permission

Used by actions: ModifyAccountPrivileges.

Name	Type	Required	Description
Privileges	Array of String	Yes	Permission information
Database	String	Yes	Database name

DatabaseProcedure

Database stored procedure information

Used by actions: DescribeDatabaseObjects.

Name	Type	Description
Proc	String	Stored procedure name

DatabaseTable

Database table information

Used by actions: DescribeDatabaseObjects.

Name	Type	Description
Table	String	Table name

DatabaseView

Database view information

Used by actions: DescribeDatabaseObjects.

Name	Type	Description
View	String	View name

DcnDetailItem

DCN details

Used by actions: DescribeDcnDetail.

Name	Type	Description
InstanceId	String	Instance ID
InstanceName	String	Instance name
Region	String	Region where the instance resides
Zone	String	Availability zone where the instance resides
Vip	String	Instance IP address
VipV6	String	Instance IPv6 address
Vport	Integer	Instance port
Status	Integer	Instance status
StatusDesc	String	Instance status description
DcnFlag	Integer	DCN flag. Valid values: <code>1</code> (primary), <code>2</code> (disaster recovery)
DcnStatus	Integer	DCN status. Valid values: <code>0</code> (none), <code>1</code> (creating), <code>2</code> (syncing), <code>3</code> (disconnected)
Cpu	Integer	Number of CPU cores of the instance
Memory	Integer	Instance memory capacity in GB
Storage	Integer	Instance storage capacity in GB
PayMode	Integer	Billing mode
CreateTime	String	Creation time of the instance in the format of 2006-01-02 15:04:05
PeriodEndTime	String	Expiration time of the instance in the format of 2006-01-02 15:04:05
InstanceType	Integer	Instance type. Valid values: <code>1</code> (dedicated primary instance), <code>2</code> (non-dedicated primary instance), <code>3</code> (non-dedicated disaster recovery instance), <code>4</code> (dedicated disaster recovery instance)
ReplicaConfig	DCNReplicaConfig	Configuration information of DCN replication. This field is null for a primary instance. Note: This field may return null, indicating that no valid values can be obtained.

ReplicaStatus	DCNReplicaStatus	DCN replication status. This field is null for the primary instance. Note: This field may return null, indicating that no valid values can be obtained.
EncryptStatus	Integer	Whether KMS is enabled.

Deal

Order information

Used by actions: DescribeOrders.

Name	Type	Description
DealName	String	Order number
OwnerUin	String	Account
Count	Integer	Number of items
FlowId	Integer	ID of the associated process, which can be used to query the process execution status.
InstanceIds	Array of String	The ID of the created instance, which is required only for the order that creates an instance. Note: This field may return null, indicating that no valid values can be obtained.
PayMode	Integer	Payment mode. Valid values: 0 (postpaid), 1 (prepaid)

FunctionPrivilege

Function permission information

Used by actions: ModifyAccountPrivileges.

Name	Type	Required	Description
Database	String	Yes	Database name
FunctionName	String	Yes	Function name
Privileges	Array of String	Yes	Permission information

InstanceBackupFileItem

Backup file details of an instance

Used by actions: DescribeBackupFiles.

Name	Type	Description
InstanceId	String	Instance ID
InstanceName	String	Instance name
InstanceStatus	Integer	Instance status
ShardId	String	Shard ID Note: This field may return null, indicating that no valid values can be obtained.
FilePath	String	File path
FileName	String	File name
FileSize	Integer	File size
BackupType	String	Backup type. Valid values: <code>Data</code> (data backup), <code>Binlog</code> (Binlog backup), <code>Errlog</code> (error log), <code>Slowlog</code> (slow log).
ManualBackup	Integer	Manual backup. Valid values: <code>0</code> (no), <code>1</code> (yes).
StartTime	String	Backup start time
EndTime	String	Backup end time

LogFileInfo

Pulled log information

Used by actions: DescribeDBLogFiles.

Name	Type	Description
Mtime	Integer	Last modified time of log
Length	Integer	File length
Uri	String	Uniform resource identifier (URI) used during log download

FileName	String	Filename
----------	--------	----------

NodeInfo

Instance node information

Used by actions: DescribeDBInstanceDetail, DescribeInstanceNodeInfo.

Name	Type	Description
NodeId	String	Node ID
Role	String	Node role. Valid values: <code>master</code> , <code>slave</code>

ParamConstraint

Parameter constraint

Used by actions: DescribeDBParameters.

Name	Type	Description
Type	String	Constraint type, such as <code>enum</code> and <code>section</code> .
Enum	String	List of valid values when constraint type is <code>enum</code>
Range	ConstraintRange	Range when constraint type is <code>section</code> Note: This field may return null, indicating that no valid values can be obtained.
String	String	List of valid values when constraint type is <code>string</code>

ParamDesc

Database parameter description

Used by actions: DescribeDBParameters.

Name	Type	Description
Param	String	Parameter name
Value	String	Current parameter value

SetValue	String	Previously set value, which is the same as <code>value</code> after the parameter takes effect. Note: This field may return null, indicating that no valid values can be obtained.
Default	String	Default value
Constraint	ParamConstraint	Parameter constraint
HaveSetValue	Boolean	Whether a value has been set. false: no, true: yes
NeedRestart	Boolean	Whether restart is required. false: no; true: yes.

ParamModifyResult

Parameter modification result

Used by actions: ModifyDBParameters.

Name	Type	Description
Param	String	Renames parameter
Code	Integer	Result of parameter modification. 0: success; -1: failure; -2: invalid parameter value.

ProcedurePrivilege

Stored procedure permission information

Used by actions: ModifyAccountPrivileges.

Name	Type	Required	Description
Database	String	Yes	Database name
Procedure	String	Yes	Stored procedure name
Privileges	Array of String	Yes	Permission information

ReservedNetResource

Information of the reserved network resource

Used by actions: DescribeDBInstanceDetail.

Name	Type	Description
VpcId	String	VPC
SubnetId	String	Subnet
Vip	String	Reserved private network IP under <code>VpcId</code> and <code>SubnetId</code>
Vports	Array of Integer	Port under <code>Vip</code>
RecycleTime	String	Valid hours of VIP

ResourceTag

Tag object, including tag key and tag value

Used by actions: CreateDBInstance, CreateHourDBInstance, DescribeDBInstanceDetail, DescribeDBInstances.

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

SecurityGroup

Security group details

Used by actions: DescribeDBSecurityGroups, DescribeProjectSecurityGroups.

Name	Type	Description
ProjectId	Integer	Project ID
CreateTime	String	Creation time in the format of yyyy-mm-dd hh:mm:ss
SecurityGroupId	String	Security group ID
SecurityGroupName	String	Security group name

SecurityGroupRemark	String	Security group remarks
Inbound	Array of SecurityGroupBound	Inbound rule
Outbound	Array of SecurityGroupBound	Outbound rule

SecurityGroupBound

Security group inbound/outbound rule

Used by actions: DescribeDBSecurityGroups, DescribeProjectSecurityGroups.

Name	Type	Description
Action	String	Policy, which can be <code>ACCEPT</code> or <code>DROP</code>
CidrIp	String	Source IP or source IP range, such as 192.168.0.0/16
PortRange	String	Port
IpProtocol	String	Network protocol. UDP and TCP are supported.

SlowLogData

Information of a slow query that has been logged

Used by actions: DescribeDBSlowLogs.

Name	Type	Description
CheckSum	String	Statement checksum for querying details
Db	String	Database name
FingerPrint	String	Abstracted SQL statement
LockTimeAvg	String	Average lock time
LockTimeMax	String	Maximum lock time
LockTimeMin	String	Minimum lock time
LockTimeSum	String	Total lock time
QueryCount	String	Number of queries

QueryTimeAvg	String	Average query time
QueryTimeMax	String	Maximum query time
QueryTimeMin	String	Minimum query time
QueryTimeSum	String	Total query time
RowsExaminedSum	String	Number of scanned rows
RowsSentSum	String	Number of sent rows
TsMax	String	Last execution time
TsMin	String	First execution time
User	String	Account
ExampleSql	String	Sample SQL Note: This field may return null, indicating that no valid values can be obtained.
Host	String	Host address of account

TableColumn

Database column information

Used by actions: DescribeDatabaseTable.

Name	Type	Description
Col	String	Column name
Type	String	Column type

TablePrivilege

Table permission

Used by actions: ModifyAccountPrivileges.

Name	Type	Required	Description

Database	String	Yes	Database name
Table	String	Yes	Table name
Privileges	Array of String	Yes	Permission information

TmpInstance

Temp instance

Used by actions: DescribeDBTmpInstances.

Name	Type	Description
Appld	Integer	Application ID Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
CreateTime	Timestamp	Creation time Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
InstanceRemark	String	Instance remarks Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
TempType	Integer	Whether it is a temp instance. Valid values: <code>0</code> (non-temp instance), <code>1</code> (invalid temp instance), <code>2</code> (valid temp rollback instance). Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
Status	Integer	Instance status. Valid values: <code>0</code> (to be initialized), <code>1</code> (in process), <code>2</code> (running), <code>-1</code> (isolated), <code>-2</code> (eliminated). Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
InstanceId	String	Instance ID in the format of <code>tdsql-ow728lmc</code> Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
Vip	String	Virtual instance IP Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
Vport	Integer	Virtual instance port

		Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
PeriodEndTime	Timestamp	Validity end time Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
SrcInstanceIcd	String	Source instance ID in the format of <code>tdsql-ow7281mc</code> Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
StatusDesc	String	Instance status description Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
Region	String	Instance region Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
Zone	String	AZ of the instance Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
Vipv6	String	Virtual IPv6 of the instance Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.
Ipv6Flag	Integer	Instance IPv6 flag Note: u200dThis field may returnu200d-nullu200d, indicating that no valid values can be obtained.

ViewPrivileges

View permission information

Used by actions: ModifyAccountPrivileges.

Name	Type	Required	Description
Database	String	Yes	Database name
View	String	Yes	View name
Privileges	Array of String	Yes	Permission information

Error Codes

Last updated : 2023-09-05 10:26:29

Feature Description

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

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

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

Error Code List

Common Error Codes

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

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

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

Service Error Codes

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.AddInstanceInfoFailed	Failed to add the security group information of an instance.
FailedOperation.ApplyVipFailed	Failed to apply for VIP
FailedOperation.AssociateSecurityGroupsFailed	Failed to associate the security group.
FailedOperation.AuthNoStrategy	Authentication failed.
FailedOperation.ClearInstanceInfoFailed	Failed to clear the security group information of an instance.
FailedOperation.CopyRightError	An error occurred while copying account permissions.
FailedOperation.CreateFlowFailed	Failed to create the flow.

FailedOperation.CreateOrderFailed	Failed to create an order.
FailedOperation.CreateUserFailed	Failed to create the account.
FailedOperation.DeleteUserFailed	Failed to delete the account.
FailedOperation.DisassociateSecurityGroupsFailed	Failed to unassociate the security group.
FailedOperation.GetSecurityGroupDetailFailed	Failed to query the security group details
FailedOperation.InstanceCanNotReturn	Refund is not supported for the instance
FailedOperation.InstanceReturnFailed	Instance refund failed
FailedOperation.ModifyRightFailed	Failed to modify account permissions.
FailedOperation.OssIsolateInstanceFailed	Failed to isolate the instance
FailedOperation.OssOperationFailed	Failed to request the backend API.
FailedOperation.PayFailed	Failed to make order payment.
FailedOperation.ResetPasswordFailed	Failed to reset the account password.
FailedOperation.SGChangeVip	Failed to update the security group
FailedOperation.SetRuleLocationFailed	Failed to set a rule.
FailedOperation.SetSvcLocationFailed	Failed to publish security group rules
FailedOperation.TagDryRunError	Either tag key/value verification or tag API authentication failed.
FailedOperation.UpdateInstanceInfoFailed	Failed to update the security group information of an instance.
FailedOperation.UserNotAuthed	Unauthenticated user
FailedOperation.VipNotChange	VIP can't be the same.
FailedOperation.VpcAddServiceFailed	Failed to add service to VPC
FailedOperation.WanStatusAbnormal	Abnormal public network status
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.CheckVipStatusFailed	Failed to verify the VIP status
InternalError.CosConfiguration	Invalid COS address configuration.

InternalError.CosSignUrl	Backup file signature failed.
InternalError.CreateFlowFailed	Failed to create a task.
InternalError.DBRowsAffectedError	No database data has changed.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.FenceError	Failed to query the information of a dedicated cluster.
InternalError.GetCipherTextFailed	Failed to get the database encryption key
InternalError.GetDbConfigFailed	Failed to get database instance parameters.
InternalError.GetDbListFailed	Failed to get the database list.
InternalError.GetDbObjectFailed	Failed to get the database object.
InternalError.GetInstanceDetailFailed	Failed to get the instance details.
InternalError.GetInstanceInfoFailed	Failed to get the backend instance information.
InternalError.GetRightFailed	Failed to get the current account permissions.
InternalError.GetSecurityGroupDetailFailed	Failed to query security group details.
InternalError.GetSlowLogFailed	Failed to get the error log.
InternalError.GetSubnetFailed	Failed to query the VPC subnet information.
InternalError.GetTableInfoFailed	Failed to get the table structure.
InternalError.GetUserListFailed	Failed to get the account list.
InternalError.GetUserSGCountFailed	Failed to get the number of security groups
InternalError.GetUsgQuotaError	Failed to query the security group quota of the user.
InternalError.GetVpcFailed	Failed to query the VPC information.
InternalError.HDFSError	Failed to read the backup file.
InternalError.InnerConfigurationMissing	Missing internal configuration.
InternalError.InnerSystemError	Internal system error.
InternalError.InsertFail	Failed to insert data into the database.

InternalError.InstanceOperatePermissionError	You have no permission to operate this instance.
InternalError.InstanceSGOverLimitError	The maximum number of security groups with which a single instance can associate has been reached.
InternalError.ListInstanceRespResourceCountNotMatchError	The number of resources returned is inconsistent with the number specified in the request of querying instance information.
InternalError.ListInstancesError	An error occurred when querying an instance.
InternalError.LogDBFailed	Failed to get the slow log.
InternalError.OperateDatabaseFailed	Database operation failed.
InternalError.QueryDatabaseFailed	An error occurred when reading data from the database.
InternalError.QueryOrderFailed	Failed to query the order information.
InternalError.QueryPriceFailed	Failed to query the price
InternalError.ReadDatabaseFailed	An error occurred when reading data from the database.
InternalError.RouteNotFound	Route not found.
InternalError.SetSvcLocationFailed	The security group policy of the resource failed to take effect.
InternalError.UpdateDatabaseFailed	Failed to update the database.
InternalError.VpcOperationFailed	VPC operation failed
InternalError.WanServiceFailed	Public network operation failed.
InvalidParameter.ActionNotFound	API not found
InvalidParameter.CharacterError	The password contains invalid characters.
InvalidParameter.CheckParamNotPass	Verification of input parameters failed.
InvalidParameter.DealNameNotGiven	The order ID to be queried is not specified.
InvalidParameter.GenericParameterError	An error occurred while verifying parameter validity.

InvalidParameter.IllegalParameterError	Invalid parameters
InvalidParameter.IllegalTime	The time parameter is incorrect.
InvalidParameter.InstanceNotFound	Failed to find the requested instance.
InvalidParameter.PermissionDenied	You have no permission to manipulate this API or resource.
InvalidParameter.SGCheckFail	Security group validity test failed.
InvalidParameter.ShardResourceIdNotFound	The instance shard does not exist.
InvalidParameter.SpecNotFound	No purchasable specifications found
InvalidParameter.SubnetNotFound	The specified VPC subnet was not found.
InvalidParameter.SubnetUnavailable	The SNAT subnet doesn't support applying for IPs.
InvalidParameter.VipNotInSubnet	VIP is not in the subnet.
InvalidParameter.VipUsed	VIP is in use.
InvalidParameter.VpcNotFound	The specified VPC subnet was not found.
InvalidParameter.VportUsed	Vport is in use.
InvalidParameterValue.AccountAlreadyExists	The account to be created already exists.
InvalidParameterValue.BadSyncMode	The instance does not support this sync mode.
InvalidParameterValue.BadUserRight	The specified permission could not be granted to this account.
InvalidParameterValue.BadUserType	Invalid account type.
InvalidParameterValue.IllegalCount	The number of products exceeds the upper limit.
InvalidParameterValue.IllegalExclusterID	The dedicated cluster to which the database instance belongs was not found.
InvalidParameterValue.IllegalQuantity	The number of products exceeds the upper limit.
InvalidParameterValue.IllegalRightParam	Incorrect permission parameters
InvalidParameterValue.IllegalZone	Information of the specified AZ was not found.

InvalidParameterValue.InvalidParameterValueError	Parameter verification error.
InvalidParameterValue.SpecIdIllegal	The specification information of the database instance was not found.
InvalidParameterValue.SuperUserForbidden	Operations by a system user are not allowed.
ResourceNotFound.AccountDoesNotExist	The specified account does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.NoInstanceFound	The specified database instance was not found.
ResourceNotFound.ProductConfigNotExistedError	Failed to find the configuration of the product associated with the security group.
ResourceNotFound.SyncTaskDeleted	The sync task has been deleted.
ResourceUnavailable.BadInstanceStatus	Unable to initialize the instance due to incorrect status.
ResourceUnavailable.CosApiFailed	An error occurred while calling COS APIs.
ResourceUnavailable.InstanceAlreadyDeleted	The database instance has been deleted.
ResourceUnavailable.InstanceHasBeenLocked	The database instance has been locked. Operations are not allowed.
ResourceUnavailable.InstanceStatusAbnormal	Incorrect database instance status. Operations are not allowed.
ResourceUnavailable.SGCheckFail	Failed to verify the security group
UnauthorizedOperation.PermissionDenied	You have no permission to manipulate this API or resource.
UnsupportedOperation.DbVersionNotSupported	This database version is not supported.
UnsupportedOperation.InvalidOperation	The operation is not supported.
UnsupportedOperation.OldProxyVersion	The proxy program is too old. Please contact customer service for upgrade and try again.