TencentDB for SQL Server

API Documentation

Product Documentation

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Contents

API Documentation
History
Introduction
API Category
Sales and fee related APIs
InquiryPriceCreateDBInstances
Data security encryption related APIs
ModifyInstanceEncryptAttributes
ModifyDBEncryptAttributes
Making API Requests
Request Structure
Common Params
Signature v3
Signature
Responses
Instance Management APIs
DescribeDBInstancesAttribute
CreateCloudDBInstances
CreateCloudReadOnlyDBInstances
UpgradeDBInstance
RollbackInstance
RestoreInstance
RestartDBInstance
ResetAccountPassword
ModifyDBRemark
ModifyDBName
ModifyDBInstanceProject
ModifyDBInstanceName
ModifyAccountPrivilege
InquiryPriceUpgradeDBInstance
DescribeZones
DescribeRollbackTime
DescribeRegions
DescribeProductConfig
DescribeFlowStatus

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- DescribeDBs
- DescribeDBInstances
- DescribeAccounts
- DeleteDB
- DeleteAccount
- CreateDBInstances
- CreateDB
- CreateAccount
- TerminateDBInstance
- RecycleDBInstance
- CloneDB
- DescribeDBCharsets
- ModifyDatabaseMdf
- ModifyDatabaseCT
- ModifyDatabaseCDC
- DescribeDBsNormal
- ModifyInstanceParam
- DescribeInstanceParams
- DescribeInstanceParamRecords
- OpenInterCommunication
- DescribeDBInstanceInter
- DescribeBusinessIntelligenceFile
- DeleteBusinessIntelligenceFile
- CreateBusinessIntelligenceFile
- CreateBusinessDBInstances
- CloseInterCommunication

Network Management APIs

- ModifyDBInstanceNetwork

Backup APIs

- RunMigration
- ModifyMigration
- DescribeMigrations
- DescribeMigrationDetail
- DescribeBackups
- DeleteMigration
- CreateMigration
- CreateBackup
- ModifyBackupStrategy

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- StartIncrementalMigration
- StartBackupMigration
- ModifyIncrementalMigration
- ModifyBackupMigration
- DescribeUploadBackupInfo
- DescribeIncrementalMigration
- DescribeBackupUploadSize
- DescribeBackupMigration
- DescribeBackupCommand
- DeleteIncrementalMigration
- DeleteBackupMigration
- CreateIncrementalMigration
- CreateBackupMigration
- DescribeBackupFiles

Extended Event APIs
- DescribeXEvents
- StartInstanceXEvent

Other APIs
- DescribeInstanceByOrders
- DescribeOrders
- DescribeSlowlogs
- ModifyAccountRemark

Data Types

Error Codes

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API Documentation History

Last updated：2024-07-08 20:31:09

Release 24

Release time: 2024-07-08 20:30:52

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeDBInstancesAttribute
  - New output parameters:SSLConfig, DrReadableInfo, OldVipList

New data structures:

- DrReadableInfo
- OldVip
- SSLConfig

Release 23

Release time: 2023-09-18 11:37:43

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeInstanceByOrders
- ModifyDBEncryptAttributes
- ModifyInstanceEncryptAttributes

Modified APIs:

- CreateBackup
  - New input parameters:StorageStrategy

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- DescribeDBInstancesAttribute
  - New output parameters:TDEConfig
- DescribeDBs
  - New input parameters:Encryption

New data structures:

- DBTDEEncrypt
- DealInstance
- TDEConfigAttribute

Modified data structures:

- DBDetail
  - New members:Encryption
- DBInstance
  - **Modified members:** Architecture, Style

Release 22

Release time: 2023-06-27 09:46:53

Release updates:

Improvement to existing documentation.

New APIs:

- CreateCloudDBInstances
- CreateCloudReadOnlyDBInstances

Modified APIs:

- CreateBusinessDBInstances
  - New output parameters:FlowId, InstanceIdSet

Release 21

Release time: 2023-05-04 10:20:10

Release updates:

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Improvement to existing documentation.

New APIs:

- DescribeDBInstancesAttribute
- DescribeXEvents
- StartInstanceXEvent

Modified APIs:

- RestoreInstance
  - New input parameters:Type, DBList

New data structures:

- EventConfig
- Events

Modified data structures:

- DBInstance
  - New members:Architecture, Style

Release 20

Release time: 2023-03-01 16:52:44

Release updates:

Improvement to existing documentation.

Modified APIs:

- ModifyBackupMigration
  - New input parameters:DBRename

New data structures:

- DBRenameRes

Modified data structures:

- AccountCreateInfo
  - New members:AccountType

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- AccountDetail
  - New members:AccountType
- AccountPrivilege
  - New members:AccountType
- AccountPrivilegeModifyInfo
  - New members:AccountType
- DbNormalDetail
  - New members:CreateTime
- Migration
  - New members:DBRename

Release 19

Release time: 2022-12-22 16:19:50

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeAccounts
  - New input parameters:Name, OrderBy, OrderByType
- DescribeDBs
  - New input parameters:Name, OrderByType

New data structures:

- SlaveZones

Modified data structures:

- DBInstance
  - New members:IsDrZone, SlaveZones

Release 18

Release time: 2022-11-29 17:24:03

Release updates:

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Improvement to existing documentation.

Modified APIs:

- ModifyBackupStrategy
  - New input parameters:RegularBackupEnable, RegularBackupSaveDays, RegularBackupStrategy, RegularBackupCounts, RegularBackupStartTime

Release 17

Release time: 2022-10-08 10:28:01

Release updates:

Improvement to existing documentation.

New APIs:

- CloseInterCommunication
- CreateBusinessDBInstances
- CreateBusinessIntelligenceFile
- DeleteBusinessIntelligenceFile
- DescribeBusinessIntelligenceFile
- DescribeDBInstanceInter
- OpenInterCommunication

New data structures:

- BusinessIntelligenceFile
- FileAction
- InterInstance
- InterInstanceFlow

Release 16

Release time: 2022-08-26 11:04:09

Release updates:

Improvement to existing documentation.

Modified APIs:

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- CreateDBInstances
  - New input parameters:Collation, TimeZone

Release 15

Release time: 2022-08-16 16:30:47

Release updates:

Improvement to existing documentation.

Modified data structures:

- DBInstance
  - New members:Collation, TimeZone

Release 14

Release time: 2022-08-01 17:03:46

Release updates:

Improvement to existing documentation.

New data structures:

- CrossBackupAddr
- CrossRegionStatus

Modified data structures:

- Backup
  - New members:Region, CrossBackupAddr, CrossBackupStatus
- BackupFile
  - New members:Region, CrossBackupAddr
- DBInstance
  - New members:CrossRegions, CrossBackupEnabled, CrossBackupSaveDays, DnsPodDomain, TgwWanVPort

Release 13

Release time: 2022-06-06 15:24:21

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Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeBackupFiles
  - New input parameters:OrderBy
- DescribeBackups
  - New input parameters:Type, BackupFormat
- DescribeDBInstances
  - New input parameters:InstanceType
- ModifyBackupStrategy
  - New input parameters:BackupCycle, BackupSaveDays
- UpgradeDBInstance
  - New input parameters:WaitSwitch

Modified data structures:

- AccountCreateInfo
  - New members:Authentication
- AccountDetail
  - New members:Authentication, Host
- AccountPrivilegeModifyInfo
  - New members:IsAdmin
- Backup
  - New members:BackupFormat
- DBInstance
  - New members:InstanceNote, BackupCycle, BackupCycleType, BackupSaveDays, InstanceType

Release 12

Release time: 2022-01-26 14:29:49

Release updates:

Improvement to existing documentation.

Modified APIs:

- ModifyDBInstanceNetwork
  - New input parameters:Vip

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Release 11

Release time: 2021-10-13 10:27:05

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeBackupFiles

Modified APIs:

- DescribeBackups
  - New input parameters:Group
- DescribeDBInstances
  - New input parameters:UidSet
- ModifyBackupStrategy
  - New input parameters:BackupModel
  - **Modified input parameters:** BackupType, BackupTime, BackupDay
- RestoreInstance
  - New input parameters:GroupId

New data structures:

- BackupFile

Modified data structures:

- Backup
  - New members:GroupId
- DBInstance
  - New members:BackupModel

Release 10

Release time: 2021-08-11 11:25:51

Release updates:

Improvement to existing documentation.

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New APIs:

- DescribeDBsNormal
- DescribeInstanceParamRecords
- DescribeInstanceParams
- ModifyDatabaseCDC
- ModifyDatabaseCT
- ModifyDatabaseMdf
- ModifyInstanceParam

New data structures:

- DbNormalDetail
- ParamRecord
- Parameter
- ParameterDetail

Release 9

Release time: 2021-03-22 18:06:06

Release updates:

Improvement to existing documentation.

Modified data structures:

- DBCreateInfo
  - **Modified members:** Charset, Accounts, Remark

Release 8

Release time: 2021-03-18 10:48:08

Release updates:

Improvement to existing documentation.

New APIs:

- CreateBackupMigration
- CreateIncrementalMigration

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- DeleteBackupMigration
- DeleteIncrementalMigration
- DescribeBackupCommand
- DescribeBackupMigration
- DescribeBackupUploadSize
- DescribeDBCharsets
- DescribeIncrementalMigration
- DescribeUploadBackupInfo
- ModifyBackupMigration
- ModifyIncrementalMigration
- StartBackupMigration
- StartIncrementalMigration

New data structures:

- CosUploadBackupFile
- Migration
- MigrationAction
- MigrationDetail
- MigrationStep

Release 7

Release time: 2021-02-22 15:40:09

Release updates:

Improvement to existing documentation.

New APIs:

- CloneDB

Release 6

Release time: 2021-02-05 14:17:07

Release updates:

Improvement to existing documentation.

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New APIs:

- ModifyDBInstanceNetwork

Modified APIs:

- CreateDBInstances
  - New input parameters:ResourceTags
- DescribeBackups
  - New input parameters:DatabaseName
- DescribeDBInstances
  - New input parameters:VipSet, InstanceNameSet, VersionSet, Zone, TagKeys, SearchKey
- UpgradeDBInstance
  - New input parameters:DBVersion, HAType, MultiZones
  - **Modified input parameters:** Memory, Storage

New data structures:

- ResourceTag

Modified data structures:

- DBInstance
  - New members:ResourceTags

Release 5

Release time: 2020-12-07 19:22:14

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeProductConfig
  - New input parameters:InstanceType

Modified data structures:

- SpecInfo
  - New members:InstanceType, MultiZonesStatus

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Release 4

Release time: 2020-11-24 16:06:15

Release updates:

Improvement to existing documentation.

New APIs:

- RecycleDBInstance

Modified data structures:

- AccountDetail
  - New members:IsAdmin

Release 3

Release time: 2020-09-25 11:38:54

Release updates:

Improvement to existing documentation.

Modified APIs:

- CreateBackup
  - New input parameters:BackupName
- CreateMigration
  - New input parameters:RenameRestore
- DescribeBackups
  - New input parameters:BackupName, Strategy, BackupWay, BackupId
- RestoreInstance
  - New input parameters:TargetInstanceId, RenameRestore
- RollbackInstance
  - New input parameters:TargetInstanceId, RenameRestore

New data structures:

- RenameRestoreDatabase

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Release 2

Release time: 2020-08-13 23:33:25

Release updates:

Improvement to existing documentation.

New APIs:

- ModifyBackupStrategy

Modified data structures:

- Backup
  - New members:BackupName

Existing Release

Release time: 2020-07-30 20:40:31

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- CreateAccount
- CreateBackup
- CreateDB
- CreateDBInstances
- CreateMigration
- DeleteAccount
- DeleteDB
- DeleteMigration
- DescribeAccounts
- DescribeBackups
- DescribeDBInstances
- DescribeDBs
- DescribeFlowStatus
- DescribeMigrationDetail
- DescribeMigrations

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- DescribeOrders
- DescribeProductConfig
- DescribeRegions
- DescribeRollbackTime
- DescribeSlowlogs
- DescribeZones
- InquiryPriceCreateDBInstances
- InquiryPriceUpgradeDBInstance
- ModifyAccountPrivilege
- ModifyAccountRemark
- ModifyDBInstanceName
- ModifyDBInstanceProject
- ModifyDBName
- ModifyDBRemark
- ModifyMigration
- ResetAccountPassword
- RestartDBInstance
- RestoreInstance
- RollbackInstance
- RunMigration
- TerminateDBInstance
- UpgradeDBInstance

Existing data structures:

- AccountCreateInfo
- AccountDetail
- AccountPassword
- AccountPrivilege
- AccountPrivilegeModifyInfo
- AccountRemark
- Backup
- DBCreateInfo
- DBDetail
- DBInstance
- DBPrivilege
- DBPrivilegeModifyInfo
- DBRemark

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- DbRollbackTimeInfo
- DealInfo
- InstanceDBDetail
- MigrateDB
- MigrateDetail
- MigrateSource
- MigrateTarget
- MigrateTask
- RegionInfo
- SlowlogInfo
- SpecInfo
- ZoneInfo

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Introduction

Last updated：2024-07-08 20:20:19

SQL Server is a relational database management system developed by Microsoft. Its high scalability and performance makes it easy for you to query, search, synchronize, and analyze data. As of today, multiple SQL Server versions have been released, each with their own unique features.

Note：

All SQL Server APIs in this section have been upgraded to API 3.0. Future SQL Serverfeatures will also be added here. We recommend using API 3.0.

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API Category

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Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeOrders	Queries order information	10
DescribeSlowlogs	Gets file information of slow query logs	20
ModifyAccountRemark	Modifies account remarks	20
DescribeInstanceByOrders	Queries the instance ID by the order number	20

Sales and fee related APIs

API Name	Feature	Frequency Limit (maximum requests per second)
InquiryPriceCreateDBInstances	Queries the price of requested instances	20

Instance Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeDBInstancesAttribute	Queries the attributes of an instance	20
CloneDB	Clones databases	20
CloseInterCommunication	Disables instance interconnection	20
CreateAccount	Creates instance account	20

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CreateBusinessDBInstances	Creates a business intelligence service instance	20
CreateBusinessIntelligenceFile	Creates a business intelligence service file	20
CreateCloudDBInstances	Creates a high-availability instance of cloud disk edition	20
CreateCloudReadOnlyDBInstances	Creates a read-only replica instance of cloud disk edition	20
CreateDB	Creates database	20
CreateDBInstances	Creates instance	20
DeleteAccount	Deletes instance account	20
DeleteBusinessIntelligenceFile	Deletes a business intelligence service file	20
DeleteDB	Drops database	20
DescribeAccounts	Pulls list of instance accounts	20
DescribeBusinessIntelligenceFile	Queries the files required by business intelligence service	20
DescribeDBCharsets	Queries the supported database character sets	20
DescribeDBInstanceInter	Queries the information of the interconnected instances	20
DescribeDBInstances	Queries the list of instances	20
DescribeDBs	Queries the list of databases	20
DescribeDBsNormal	Queries database configurations	20
DescribeFlowStatus	Queries flow status	20
DescribeInstanceParamRecords	Queries instance parameter modification records	20
DescribeInstanceParams	Queries the configurable parameter list of an instance	20
DescribeProductConfig	Queries purchasable specification	20

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	configuration	
DescribeRegions	Queries purchasable regions	20
DescribeRollbackTime	Queries time range available for instance rollback	20
DescribeZones	Queries purchasable AZs	20
InquiryPriceUpgradeDBInstance	Queries upgrade price of instance	20
ModifyAccountPrivilege	Modifies instance account permissions	20
ModifyDBInstanceName	Renames instance	20
ModifyDBInstanceNetwork	Changes instance network	20
ModifyDBInstanceProject	Modifies project to which database instance belongs	20
ModifyDBName	Rename database	20
ModifyDBRemark	Modifies database remarks	20
ModifyDatabaseCDC	Enables/Disables CDC	20
ModifyDatabaseCT	Enables/Disables CT	20
ModifyDatabaseMdf	Shrinks database MDF files	20
ModifyInstanceParam	Modifies instance parameters	20
OpenInterCommunication	Enables instance interconnection	20
RecycleDBInstance	Returns a deactivated SQL Server instance	20
ResetAccountPassword	Resets account password	20
RestartDBInstance	Restarts instance	20
RestoreInstance	Rolls back the database by backup set	20
RollbackInstance	Rolls back the instance by time point	20
TerminateDBInstance	Isolates an instance	20
UpgradeDBInstance	Upgrades instance	20

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Backup and Restoration APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateBackup	Creates backup	20
CreateBackupMigration	Creates backup import tasks	20
CreateIncrementalMigration	Creates incremental backup import tasks	20
CreateMigration	Creates migration task	20
DeleteBackupMigration	Deletes backup import tasks	20
DeleteIncrementalMigration	Deletes incremental backup import tasks	20
DeleteMigration	Deletes migration task	20
DescribeBackupCommand	Queries the commands of creating backups	20
DescribeBackupFiles	Queries the details of an unarchived backup	20
DescribeBackupMigration	Queries backup import tasks	20
DescribeBackupUploadSize	Queries the size of uploaded backup files	20
DescribeBackups	Queries list of backups	60
DescribeIncrementalMigration	Queries incremental backup import tasks	20
DescribeMigrationDetail	Queries migration task details	20
DescribeMigrations	Queries the list of migration tasks	20
DescribeUploadBackupInfo	Queries backup upload permissions.	20
ModifyBackupMigration	Modifies backup import tasks	20

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ModifyBackupStrategy	Modifies backup policy	20
ModifyIncrementalMigration	Modifies incremental backup import tasks.	20
ModifyMigration	Modifies migration task	20
RunMigration	Runs migration task	20
StartBackupMigration	Starts backup import tasks	20
StartIncrementalMigration	Starts incremental backup import tasks	20

Extended Event APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeXEvents	Queries the list of extended events	20
StartInstanceXEvent	Starts and stops an extension event	20

Data security encryption related APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ModifyInstanceEncryptAttributes	Enables TDE of an instance	20
ModifyDBEncryptAttributes	Enables or disables TDE of a database	20

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Sales and fee related APIs InquiryPriceCreateDBInstances

Last updated：2024-07-08 20:25:10

1. API Description

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

This API is used to query the price of requested 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.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquiryPriceCreateDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Zone	Yes	String	AZ ID, which can be obtained through the `Zone` field in the returned value of the `DescribeZones` API
Memory	Yes	Integer	Memory size in GB
Storage	Yes	Integer	Instance capacity in GB
InstanceChargeType	No	String	Billing type. Valid value: POSTPAID.

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Period	No	Integer	Length of purchase in months. Value range: 1-48. Default value: 1
GoodsNum	No	Integer	Number of instances purchased at a time. Value range: 1-100. Default value: 1
DBVersion	No	String	SQL version. Valid values: `2008R2` (SQL Server 2008 R2 Enterprise), `2012SP3` (SQL Server 2012 Enterprise), `201202` (SQL Server 2012 Standard), `2014SP2` (SQL Server 2014 Enterprise), `201402` (SQL Server 2014 Standard) `,` 2016SP1 `(SQL Server 2016 Enterprise),` 201602 `(SQL Server 2016 Standard),` 2017 `(SQL Server 2017 Enterprise),` 201702 `(SQL Server 2017 Standard),` 2019 `(SQL Server 2019 Enterprise),` 201902 `(SQL Server 2019 Standard). Default value:` 2008R2 `. The purchasable version varies by region. It can be queried by the` DescribeProductConfig` API.
Cpu	No	Integer	The number of CPU cores of the instance you want to purchase.
InstanceType	No	String	The type of instance to be purchased. Valid values: `HA` (high-availability edition, including dual-server high-availability and AlwaysOn cluster edition), `RO` (read-only replica edition), `SI` (single-node edition), `cvmHA` (dual-server high-availability edition for CVM), `cvmRO` (read-only edition for CVM).
MachineType	No	String	The host type of the instance to be purchased. Valid values: `PM` (physical machine), `CLOUD_PREMIUM` (virtual machine with premium cloud disk), `CLOUD_SSD` (virtual machine with SSD), `CLOUD_HSSD` (virtual machine with enhanced SSD), `CLOUD_TSSD` (virtual machine with ulTra SSD), `CLOUD_BSSD` (virtual machine with balanced SSD).

3. Output Parameters

Parameter Name	Type	Description

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OriginalPrice	Integer	Price before discount. This value divided by 100 indicates the price; for example, 10010 means 100.10 USD
Price	Integer	The actual price to be paid. This value divided by 100 indicates the price; for example, 10010 means 100.10 USD
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the price of the requested SQL Server instance

This example shows you how to query the price of the requested SQL Server instance.

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=InquiryPriceCreateDBInstances
&Zone=ap-guangzhou-2
&Memory=2
&Storage=300
&Period=1
&GoodsNum=1
&DBVersion=2008R2
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6ace8140-6b9e-4e81-a8ad-ef3f92b2aa90",
"OriginalPrice": 20988,
"Price": 20988
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.QueryPriceFailed	Billing error. Failed to query price.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BadGoodsNum	Invalid number of purchased instances.
InvalidParameterValue.IllegalRegion	Invalid region.
InvalidParameterValue.IllegalSpec	Incorrect instance specification information.
InvalidParameterValue.IllegalZone	Incorrect AZ ID.
InvalidParameterValue.ParameterTypeError	Incorrect parameter type.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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Data security encryption related APIs ModifyInstanceEncryptAttributes

Last updated：2024-07-08 20:22:23

1. API Description

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

This API is used to enable TDE 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: ModifyInstanceEncryptAttributes.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
CertificateAttribution	Yes	String	Certificate ownership. Valid values: `self` (certificate of this account), `others` (certificate of the other account). Default value: `self` .
QuoteUin	No	String	ID of the other referenced root account, which is required when `CertificateAttribution` is `others` .

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3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Task flow ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Enabling TDE of an instance

This example shows you how to enable TDE of an instance.

Input Example

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

{
"InstanceId": "mssql-njj2mtpl",
"CertificateAttribution": "self",
"QuoteUin": ""
}
```

Output Example

```
{
"Response": {
"FlowId": 12098283,
"RequestId": "5062de55-d048-4d3b-92f9-b98b6f244360"
}
}
```

5. Developer Resources

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SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.NotSupport	The operation is not supported.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnsupportedOperation.NotSupportRepeat	Repeated operations are not supported.

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ModifyDBEncryptAttributes

Last updated：2024-07-08 20:20:43

1. API Description

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

This API is used to enable or disable TDE 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: ModifyDBEncryptAttributes.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
DBTDEEncrypt.N	Yes	Array of DBTDEEncrypt	A parameter used to enable or disable TDE of the database

3. Output Parameters

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Parameter Name	Type	Description
FlowId	Integer	Task flow ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Enabling or disabling TDE of a database

This example shows you how to enable or disable TDE of a database.

Input Example

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

{
"InstanceId": "mssql-njj2mtpl",
"DBTDEEncrypt": [
{
"DBName": "test_db",
"Encryption": "enable"
}
]
}
```

Output Example

```
{
"Response": {
"FlowId": 1778292,
"RequestId": "5062de55-d048-4d3b-92f9-b98b6f244360"
}
}
```

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5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
FailedOperation.NotSupport	The operation is not supported.
InvalidParameter.InputIllegal	Input error.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.ParamsNotFound	Parameter not found.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.
UnsupportedOperation	The operation is not supported.

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UnsupportedOperation.NotSupportRepeat	Repeated operations are not supported.

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Making API Requests
Request Structure

Last updated：2024-07-08 20:20:20

1. Service Address

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

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

Note: As financial availability zones and non-financial availability zones are isolated, when accessing the services in a financial availability zone (with the common parameter `Region` specifying a financial availability zone), it is necessary to specify a domain name of the financial availability zone, preferably in the same region as specified in `Region` .

Access region for financial availability zone	Domain name for financial availability zone
East China (Shanghai Finance)	sqlserver.ap-shanghai-fsi.tencentcloudapi.com
South China (Shenzhen Finance)	sqlserver.ap-shenzhen-fsi.tencentcloudapi.com

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)

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- 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.

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Common Params

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

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

Common parameters for Signature Algorithm v3

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

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter `Action` in the input parameters in r documentation. For example, the API for querying the CVM instance list i `DescribeInstances` .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data y work with belongs. For values supported for an API, see the description c parameter `Region` in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relate documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request for example, 1529223702. Note: If the difference between the UNIX times server time is greater than 5 minutes, a signature expiration error may oc
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the c parameter `Version` in the API documentation. For example, the versi 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date i UTC time, and this value must match the value of X-TC-Timestamp (a co

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			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencen refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication informatic 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 tempora can obtain the temporary key and token by calling a CAM API. No token i 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/20
18-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993
f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
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=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
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):

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```
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 `Action` in the input parameters in related API documentation. For example, the API for querying the CVM instance list is `DescribeInstances` .
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 `Region` 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.

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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 `Timestamp` 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 `Version` 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&Sign
atureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb45
9b1bbee224158d66e7ae5fcadb70b2d181d02&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:

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

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

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

Region List

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

Region	Value
Southeast Asia (Bangkok)	ap-bangkok
North China (Beijing)	ap-beijing
Southwest China (Chengdu)	ap-chengdu
Southwest China (Chongqing)	ap-chongqing
South China (Guangzhou)	ap-guangzhou
Hong Kong/Macao/Taiwan (China) (Hong Kong (China))	ap-hongkong
Southeast Asia (Jakarta)	ap-jakarta
South Asia (Mumbai)	ap-mumbai
East China (Nanjing)	ap-nanjing
Northeast Asia (Seoul)	ap-seoul
East China (Shanghai)	ap-shanghai
East China (Shanghai Finance)	ap-shanghai-fsi
South China (Shenzhen Finance)	ap-shenzhen-fsi
Southeast Asia (Singapore)	ap-singapore
Northeast Asia (Tokyo)	ap-tokyo

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Europe (Frankfurt)	eu-frankfurt
East US (Virginia)	na-ashburn
West US (Silicon Valley)	na-siliconvalley
South America (São Paulo)	sa-saopaulo

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Signature v3

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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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' +
```

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses `POST` .
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 st “” for POST requests, and is the string after the question mark (?) for GET requests. Fo example: Limit=10&Offset=0。 Note: `CanonicalQueryString` must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All speci characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of `host` `content-type` . Custom headers can be added to participate in the signature proce improve the uniqueness and security of the request. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase with the lead and trailing spaces removed, so they are concatenated in the format of key:value\n format; 2. 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 `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` . Note: `content-type` 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 sever 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 heac in CanonicalHeaders). `Content-type` and `host` are required headers. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase; 2. 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 `content-type;host`
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as `{"Limit": 1, "Filter`

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	`[{"Values": ["unnamed"], "Name": "instance-name"}]}` in this exampl The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the pay of the HTTP request, performing hexadecimal encoding, and finally converting the enco string to lowercase letters. For GET requests, `RequestPayload` is always an empt string. The calculation result in this example is `99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4`

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

```
POST
/

content-type:application/json; charset=utf-8
host:cvm.tencentcloudapi.com

content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

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

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HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequ The calculation result in this example is `2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad`

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
2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

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

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

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

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2) Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc
3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301
bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/20
19-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437
e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
```

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

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

5. Signature Demo

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

- Python
- Java
- PHP
- Go
- NodeJS
- .NET

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

The final output URL might be: https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGeI%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

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```
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";
```

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```
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + 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" + canoni
calQueryString + "\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, string
ToSign)).toLowerCase();
System.out.println(signature);

// ************* Step 4: Concatenate the Authorization *************
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "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("\"")
```

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```
.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" +
```

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```
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")).hexd
igest()
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.sha2
56).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

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```go
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,
```

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```
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

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

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:".$hos
t."\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod."\n"
.$canonicalUri."\n"
.$canonicalQueryString."\n"
.$canonicalHeaders."\n"
.$signedHeaders."\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

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

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

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```
// 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 = ''
```

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```
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 \
```

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```
+ ' -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
```

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```
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);
```

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```
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 proj
ect, 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\\u5
47d\\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);
}
}
```

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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" + "hos
t:" + endpoint + "\n"

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

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```
+ 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()
```

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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++)
{
snprintf(buf, sizeof(buf), "%02x", hash[i]);
NewString = NewString + buf;
}
return NewString;
```

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```
}
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]);
}
```

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```
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" + canoni
calQueryString + "\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" + credentialScop
e + "\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");
```

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```
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).

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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.

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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',
}
```

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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

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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=AKIDz8krbsJ5
yKBZQpn74WFkmLPx3*******&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

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

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

5. Signature Demo

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

- Python
- Java
- PHP
- Go
- NodeJS
- .NET

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

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

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

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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.getAlg
orithm());
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. TreeM
ap 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 UnsupportedEnc
odingException {
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 lette
rs, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHAR
SET)).append("&");
```

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

Python

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

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

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```
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
```

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```
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*******";
$param["Nonce"] = 11886;//rand();
$param["Timestamp"] = 1465185768;//time();
$param["Region"] = "ap-guangzhou";
$param["SecretId"] = $secretId;
$param["Version"] = "2017-03-12";
$param["Action"] = "DescribeInstances";
$param["InstanceIds.0"] = "ins-09dx96dg";
$param["Limit"] = 20;
$param["Offset"] = 0;
ksort($param);
$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param as $key => $value ) {
$signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);
$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
```

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```
// $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, sig
n))
puts data['Signature']
# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
```

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

DotNet

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

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```
// 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){
```

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```
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'])
```

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

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Responses

Last updated：2024-07-08 20:20:22

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 s
ignature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

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

Common Error Codes

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

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

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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.

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Instance Management APIs DescribeDBInstancesAttribute

Last updated：2024-07-08 20:31:28

1. API Description

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

This API is used to query the attributes 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: DescribeDBInstancesAttribute.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter Name	Type	Description

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InstanceId	String	Instance ID
RegularBackupEnable	String	Archive backup status. Valid values: `enable` (enabled), `disable` (disabled)
RegularBackupSaveDays	Integer	Archive backup retention period: [90-3650] days
RegularBackupStrategy	String	Archive backup policy. Valid values: `years` (yearly); `quarters (quarterly);` months` (monthly).
RegularBackupCounts	Integer	The number of retained archive backups
RegularBackupStartTime	String	Archive backup start date in YYYY-MM-DD format, which is the current time by default.
BlockedThreshold	Integer	Block process threshold in milliseconds
EventSaveDays	Integer	Retention period for the files of slow SQL, blocking, deadlock, and extended events.
TDEConfig	TDEConfigAttribute	TDE configuration
SSLConfig	SSLConfig	
DrReadableInfo	DrReadableInfo	
OldVipList	Array of OldVip	
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the attributes of the "mssql-j8kv137v" instance

This example shows you how to query the attributes of an instance.

Input Example

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

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```
{
"InstanceId": "mssql-j8kv137v"
}
```

Output Example

```
{
"Response": {
"InstanceId": "mssql-j8kv137v",
"RegularBackupSaveDays": 1,
"RequestId": "7",
"RegularBackupCounts": 1,
"RegularBackupEnable": "enable",
"RegularBackupStrategy": "months",
"RegularBackupStartTime": "2022-10-10",
"EventSaveDays": 0,
"TDEConfig": {
"Encryption": "disable",
"CertificateAttribution": "self",
"QuoteUin": ""
},
"BlockedThreshold": 6
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

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- 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.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.UnknownError	Unknown error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateCloudDBInstances

Last updated：2023-09-18 11:41:47

1. API Description

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

This API is used to create a high-availability instance of cloud disk edition.

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: CreateCloudDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Zone	Yes	String	Instance AZ, such as `ap-guangzhou-1` (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the `DescribeZones` API.
Memory	Yes	Integer	Instance memory size in GB
Storage	Yes	Integer	Instance disk size in GB
Cpu	Yes	Integer	Number of CPU cores

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MachineType	Yes	String	The host type of the purchased instance. Valid values: `CLOUD_HSSD` (virtual machine with enhanced SSD), `CLOUD_TSSD` (virtual machine with ulTra SSD), `CLOUD_BSSD` (virtual machine with balanced SSD).
InstanceChargeType	No	String	Billing mode. Valid values: `PREPAID` (monthly subscription), `POSTPAID` (pay-as-you-go).
ProjectId	No	Integer	Project ID
GoodsNum	No	Integer	Number of instances purchased this time. Default value: `1` . Maximum value: `10` .
SubnetId	No	String	VPC subnet ID in the format of `subnet-bdoe83fa` . Both `SubnetId` and `VpcId` need to be set or unset at the same time.
VpcId	No	String	VPC ID in the format of `vpc-dsp338hz` . Both `SubnetId` and `VpcId` need to be set or unset at the same time.
Period	No	Integer	The purchase period of an instance. Default value: `1` (one month). Maximum value: `48` .
AutoVoucher	No	Integer	Whether to automatically use voucher. Valid values: `0` (no, default), `1` (yes).
VoucherIds.N	No	Array of String	Array of voucher IDs (currently, only one voucher can be used per order)
DBVersion	No	String	SQL Server version. Valid values: `2008R2` (SQL Server 2008 R2 Enterprise), `2012SP3` (SQL Server 2012 Enterprise), `201202` (SQL Server 2012 Standard), `2014SP2` (SQL Server 2014 Enterprise), 201402 (SQL Server 2014 Standard), `2016SP1` (SQL Server 2016 Enterprise), `201602` (SQL Server 2016 Standard), `2017` (SQL Server 2017 Enterprise), `201702` (SQL Server 2017 Standard), `2019` (SQL Server 2019 Enterprise), `201902` (SQL Server 2019 Standard). Default value: `2008R2` . The available version varies by region, and you can pull the version information through the `DescribeProductConfig` API.
AutoRenewFlag	No	Integer	Auto-renewal flag, which takes effect only when purchasing a monthly subscribed instance. Valid

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			values: `0` (auto-renewal disabled), `1` (auto-renewal enabled). Default value: `0` .
SecurityGroupList.N	No	Array of String	Security group list, which contains security group IDs in the format of `sg-xxx` .
Weekly.N	No	Array of Integer	Configuration of the maintenance window, which specifies the day of the week when maintenance can be performed. Valid values: `1` (Monday), `2` (Tuesday), `3` (Wednesday), `4` (Thursday), `5` (Friday), `6` (Saturday), `7` (Sunday).
StartTime	No	String	Configuration of the maintenance window, which specifies the start time of daily maintenance.
Span	No	Integer	Configuration of the maintenance window, which specifies the maintenance duration in hours. Hour
MultiZones	No	Boolean	Whether to deploy across AZs. Default value: `false` .
ResourceTags.N	No	Array of ResourceTag	Tags associated with the instances to be created
Collation	No	String	Collation of system character sets. Default value: `Chinese_PRC_CI_AS` .
TimeZone	No	String	System time zone. Default value: `China Standard Time` .

3. Output Parameters

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

4. Example

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Example1 Creating an instance

This example shows you how to create a dual-server high-availability instance based on the general cloud disk.

Input Example

```
POST / HTTP/1.1Host: sqlserver.tencentcloudapi.comContent-Type: application/jsonX
-TC-Action: CreateCloudDBInstances<common request parameters>{ "Zone": "ap-guangz
hou-3", "InstanceChargeType": "PREPAID", "ProjectId": 0, "Memory": 4, "Storage":
200, "GoodsNum": 1, "SubnetId": "subnet-15y3y4eo", "VpcId": "vpc-hqxhp43z", "Peri
od": 1, "DBVersion": "2008R2", "AutoRenewFlag": 0, "SecurityGroupList": [ "sg-7hb
0hisl" ], "Weekly": [ 1, 2 ], "StartTime": "01:00", "Span": 1, "MultiZones": true
, "ResourceTags": [ { "TagKey": "env", "TagValue": "product" } ], "Cpu": 2, "Mach
ineType": "CLOUD_BSSD", "Collation": "Chinese_PRC_CI_AS", "TimeZone": "China Stan
dard Time"}
```

Output Example

```
{
"Response": {
"DealName": "202301231",
"RequestId": "61999983-b0af-4889-b067-xxxxxxxxx"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
FailedOperation.CreateOrderFailed	Failed to create order.
FailedOperation.DBError	Database error.
FailedOperation.GetVpcFailed	Failed to get VPC information.
InternalError.DBError	Database error
InternalError.UnknownError	Unknown error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameter.PayOrderFailed	Failed to make order payment.
InvalidParameterValue.IllegalRegion	Invalid region.
InvalidParameterValue.IllegalSpec	Incorrect instance specification information.
InvalidParameterValue.IllegalZone	Incorrect AZ ID.
InvalidParameterValue.SecurityGroupIdIsIllegal	Invalid security group ID.
ResourceNotFound.VpcNotExist	The VPC does not exist.
ResourceUnavailable.VpcNotExist	VPC not found.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateCloudReadOnlyDBInstances

Last updated：2023-09-18 11:41:47

1. API Description

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

This API is used to add a read-only replica instance of cloud disk edition.

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: CreateCloudReadOnlyDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of `mssql-3l3fgqn7` .
Zone	Yes	String	Instance AZ, such as `ap-guangzhou-1` (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the `DescribeZones` API.
ReadOnlyGroupType	Yes	Integer	Read-only group types. Valid values: `1`

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			(each read-only replica is placed in one auto-created read-only group), `2` (all read-only replicas are placed in one auto-created read-only group), `3` (all read-only replicas are placed in one existing read-only group).
Memory	Yes	Integer	Instance memory size in GB
Storage	Yes	Integer	Instance disk size in GB
Cpu	Yes	Integer	Number of instance cores
MachineType	Yes	String	The host type of purchased instance. Valid values: `CLOUD_HSSD` (virtual machine with enhanced SSD), `CLOUD_TSSD` (virtual machine with ulTra SSD), `CLOUD_BSSD` (virtual machine with balanced SSD).
ReadOnlyGroupForcedUpgrade	No	Integer	Valid values: `0` (not upgrade the primary instance by default), `1` (upgrade the primary instance to complete the RO deployment). You need to pass in `1` for this parameter and upgrade the primary instance to cluster edition.
ReadOnlyGroupId	No	String	Existing read-only group ID, which is required when `ReadOnlyGroupType` is `3`.
ReadOnlyGroupName	No	String	New read-only group ID, which is required when `ReadOnlyGroupType` is `2`.
ReadOnlyGroupIsOfflineDelay	No	Integer	Whether delayed read-only instance removal is enabled in a new read-only group, which is required when `ReadOnlyGroupType` is `2`. Valid values: `1` (enabled), `0` (disabled). The read-only replica will be automatically removed when the delay between it and the primary instance exceeds the threshold.
ReadOnlyGroupMaxDelayTime	No	Integer	The delay threshold for a new read-only group, which is required when `ReadOnlyGroupType` is `2` and

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			`ReadOnlyGroupIsOfflineDelay` is `1` .
ReadOnlyGroupMinInGroup	No	Integer	Minimum number of reserved read-only replicas when the delayed removal is enabled for the new read-only group, which is required when `ReadOnlyGroupType` is `2` and `ReadOnlyGroupIsOfflineDelay` is `1` .
InstanceChargeType	No	String	Billing mode. Valid values: `PREPAID` (monthly subscription), `POSTPAID` (pay-as-you-go).
GoodsNum	No	Integer	Number of read-only instances to be purchased this time. Default value: `2` .
SubnetId	No	String	VPC subnet ID in the format of `subnet-bdoe83fa` . Both `SubnetId` and `VpcId` need to be set or unset at the same time.
VpcId	No	String	VPC ID in the format of `vpc-dsp338hz` . Both `SubnetId` and `VpcId` need to be set or unset at the same time.
Period	No	Integer	The purchase period of an instance. Default value: `1` (one month). Maximum value: `48` .
SecurityGroupList.N	No	Array of String	Security group list, which contains security group IDs in the format of `sg-xxx` .
AutoVoucher	No	Integer	Whether to automatically use voucher. Valid values: `0` (no, default), `1` (yes).
VoucherIds.N	No	Array of String	Array of voucher IDs (currently, only one voucher can be used per order)
ResourceTags.N	No	Array of ResourceTag	Tags associated with the instances to be created
Collation	No	String	Collation of system character sets. Default value: Chinese_PRC_CI_AS
TimeZone	No	String	System time zone. Default value: `China`

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			`Standard Time`

3. Output Parameters

Parameter Name	Type	Description
DealNames	Array of String	Order name in array
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a read-only instance

This example shows you how to create a read-only replica based on the balanced SSD.

Input Example

```
POST / HTTP/1.1Host: sqlserver.tencentcloudapi.comContent-Type: application/jsonX
-TC-Action: CreateCloudReadOnlyDBInstances<common request parameters>{ "ReadOnlyG
roupMaxDelayTime": "10", "VpcId": "vpc-3xq2t5al", "GoodsNum": "1", "Zone": "ap-gu
angzhou-2", "InstanceId": "mssql-6upluvd5", "Period": "1", "Storage": "10", "Read
OnlyGroupIsOfflineDelay": "1", "ReadOnlyGroupMinInGroup": "1", "ReadOnlyGroupNam
e": "default_name", "Collation": "Chinese_PRC_CI_AS", "ReadOnlyGroupType": "2",
"InstanceChargeType": "POSTPAID", "Memory": "2", "SubnetId": "subnet-gdy95gfs",
"TimeZone": "China Standard Time", "ReadOnlyGroupForcedUpgrade": "1", "Cpu": 2,
"MachineType": "CLOUD_BSSD"}
```

Output Example

```
{
"Response": {
"DealNames": [
"20200722117963"
],
"RequestId": "0509b6b8-8906-479f-9489-10620ec6d4ce"
}
}
```

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5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.CreateOrderFailed	Failed to create order.
FailedOperation.DBError	Database error.
FailedOperation.GetVpcFailed	Failed to get VPC information.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InternalError.VPCError	VPC error
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameter.PayOrderFailed	Failed to make order payment.

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InvalidParameterValue.IllegalSpec	Incorrect instance specification information.
InvalidParameterValue.ParameterTypeError	Incorrect parameter type.
InvalidParameterValue.RoGroupNameIsIllegal	Read-only group name contains invalid characters.
InvalidParameterValue.SecurityGroupIdIsIllegal	Invalid security group ID.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.VpcNotExist	The VPC does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
ResourceUnavailable.VpcNotExist	VPC not found.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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UpgradeDBInstance

Last updated：2023-09-18 11:41:40

1. API Description

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

This API is used to upgrade 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: UpgradeDBInstance.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-j8kv137v
Memory	No	Integer	Memory size after instance upgrade in GB, which cannot be smaller than the current instance memory size
Storage	No	Integer	Storage capacity after instance upgrade in GB, which cannot be smaller than the current instance storage capacity
AutoVoucher	No	Integer	Whether to automatically use vouchers. 0: no, 1: yes. Default value: 0
VoucherIds.N	No	Array	Voucher ID (currently, only one voucher can be used per order)

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		of String	
Cpu	No	Integer	The number of CUP cores after the instance is upgraded.
DBVersion	No	String	Upgrade the SQL Server version. Supported versions include SQL Server 2008 Enterprise (`2008R2`), SQL Server 2012 Enterprise (`2012SP3`), etc. As the purchasable versions are region-specific, you can use the `DescribeProductConfig` API to query the information of purchasable versions in each region. Downgrading is unsupported. If this parameter is left empty, the SQL Server version will not be changed.
HAType	No	String	Upgrade the high availability architecture from image-based disaster recovery to Always On cluster disaster recovery. This parameter is valid only for instances which support Always On high availability and run SQL Server 2017 or later. Neither downgrading to image-based disaster recovery nor upgrading from cluster disaster recovery to Always On disaster recovery is supported. If this parameter is left empty, the high availability architecture will not be changed.
MultiZones	No	String	Change the instance deployment scheme. Valid values: `SameZones` (change to single-AZ deployment, which does not support cross-AZ disaster recovery), `MultiZones` (change to multi-AZ deployment, which supports cross-AZ disaster recovery).
WaitSwitch	No	Integer	The time when configuration adjustment task is performed. Valid values: `0` (execute immediately), `1` (execute during maintenance time). Default value: `1` .

3. Output Parameters

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

4. Example

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Example1 Upgrading an instance

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=UpgradeDBInstance
&InstanceId=mssql-j8kv137v
&Memory=4
&Storage=400
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"DealName": "201806261980"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
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6. Error Code

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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 order.
FailedOperation.QueryPriceFailed	Billing error. Failed to query price.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameter.PayOrderFailed	Failed to make order payment.
InvalidParameterValue.IllegalSpec	Incorrect instance specification information.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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RollbackInstance

Last updated：2023-09-18 11:41:40

1. API Description

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

This API is used to roll back the instance by time point.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: RollbackInstance.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
Type	Yes	Integer	Rollback type. 0: the database rolled back overwrites the original database; 1: the database rolled back is renamed and does not overwrite the original database
DBs.N	Yes	Array of String	Database to be rolled back

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Time	Yes	Timestamp	Target time point for rollback
TargetInstanceId	No	String	ID of the target instance to which the backup is restored. The target instance should be under the same `APPID`. If this parameter is left empty, ID of the source instance will be used.
RenameRestore.N	No	Array of RenameRestoreDatabase	Rename the databases listed in `ReNameRestoreDatabase`. This parameter takes effect only when `Type = 1` which indicates that backup rollback supports renaming databases. If it is left empty, databases will be renamed in the default format and the `DBs` parameter specifies the databases to be restored.

3. Output Parameters

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

4. Example

Example1 Rolling back the database by time point

This example shows you how to roll back the database by time point.

Input Example

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

{
```

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```
"InstanceId": "mssql-aj89iq78",
"Type": 1,
"DBs": [
"abc"
],
"Time": "2020-09-22 00:00:00",
"TargetInstanceId": "mssql-aj89iq79",
"RenameRestore": [
{
"OldName": "abc",
"NewName": "abc"
}
]
}
```

Output Example

```
{
"Response": {
"FlowId": 100023,
"RequestId": "cd7a35be-2fbf-f3a6-210a-ea9afe158817"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.DBCharIllegal	The database name contains invalid characters.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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RestoreInstance

Last updated：2023-09-18 11:41:40

1. API Description

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

This API is used to roll back the database by backup set.

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: RestoreInstance.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-j8kv137v
BackupId	Yes	Integer	Backup file ID, which can be obtained through the `Id` field in the returned value of the `DescribeBackups` API
TargetInstanceId	No	String	ID of the target instance to which the backup is restored. The target instance should be under the same `APPID` . If this parameter is

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			left empty, ID of the source instance will be used.
RenameRestore.N	No	Array of RenameRestoreDatabase	Restore the databases listed in `ReNameRestoreDatabase` and rename them after restoration. If this parameter is left empty, all databases will be restored and renamed in the default format.
Type	No	Integer	Rollback type. Valid values: `0` (overwriting), `1` (renaming).
DBList.N	No	Array of String	Database to be overwritten, which is required when overwriting a rollback database.
GroupId	No	String	Group ID of unarchived backup files grouped by backup task

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async flow task ID, which can be used to call the `DescribeFlowStatus` API to get the task execution status
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Rolling back the database by backup set

This example shows you how to roll back the database by backup set.

Input Example

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

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```
{
"InstanceId": "mssql-u81902ja",
"BackupId": 0,
"TargetInstanceId": "mssql-u8190212",
"RenameRestore": [
{
"OldName": "test_db",
"NewName": "new_db"
}
],
"GroupId": ""
}
```

Output Example

```
{
"Response": {
"FlowId": 0,
"RequestId": "tqKar0yjquorXdNkDzkAZ8lh1_JTWJq3"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.DBExist	The database already exists.
LimitExceeded.TooManyDB	The database limit is exceeded.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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RestartDBInstance

Last updated：2023-09-18 11:41:40

1. API Description

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

This API is used to restart 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.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: RestartDBInstance.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Database instance ID in the format of mssql-njj2mtpl

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task flow ID

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

4. Example

Example1 Restarting the "mssql-niycdqff" instance

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=RestartDBInstance
&InstanceId=mssql-njj2mtpl
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab",
"FlowId": "30321"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ResetAccountPassword

Last updated：2023-09-18 11:41:41

1. API Description

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

This API is used to reset the account password 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: ResetAccountPassword.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Database instance ID in the format of mssql-njj2mtpl
Accounts.N	Yes	Array of AccountPassword	Updated account password information array

3. Output Parameters

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

4. Example

Example1 Resetting the account password of the "mssql-njj2mtpl" instance

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ResetAccountPassword
&InstanceId=mssql-njj2mtpl
&Accounts.0.UserName=test_user_4
&Accounts.0.Password=1234qwer()
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "aa77bb20-7522-4b1e-bc0f-ad5d82790b17",
"FlowId": 30457
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.PasswordIsIllegal	The account and password are invalid.
ResourceNotFound.AccountNotExist	The account does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.AccountInvalidStatus	Invalid account status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyDBRemark

Last updated：2023-09-18 11:41:42

1. API Description

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

This API is used to modify database remarks.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyDBRemark.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-rljoi3bf
DBRemarks.N	Yes	Array of DBRemark	Array of database names and remarks, where each element contains a database name and the corresponding remarks

3. Output Parameters

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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 database remarks

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyDBRemark
&InstanceId=mssql-njj2mtpl
&DBRemarks.0.Name=db_test
&DBRemarks.0.Remark=Test database
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "08fdf411-5d39-44f2-8e1d-a58ee60b237d"
}
}
```

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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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.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameterValue.DataBaseRemarkIsIllegal	The database remarks are invalid.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyDBName

Last updated：2023-09-18 11:41:42

1. API Description

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

This API is used to rename 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: ModifyDBName.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
OldDBName	Yes	String	Old database name
NewDBName	Yes	String	New name of database

3. Output Parameters

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Parameter Name	Type	Description
FlowId	Integer	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 a database name

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyDBName
&InstanceId=mssql-i1z41iwd
&OldDBName=test_db
&NewDBName=test_db_newname
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FlowId": 123,
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js

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Command Line Interface

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6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.DBCharIllegal	The database name contains invalid characters.
InvalidParameterValue.DBExist	The database already exists.
InvalidParameterValue.DBNameIsKeyWrods	The database name cannot contain reserved words.
InvalidParameterValue.DBNameSame	The new database name is the same as the old one.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyDBInstanceProject

Last updated：2023-09-18 11:41:42

1. API Description

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

This API is used to modify the project to which a database instance belongs.

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: ModifyDBInstanceProject.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceIdSet.N	Yes	Array of String	Array of instance IDs in the format of mssql-j8kv137v
ProjectId	Yes	Integer	Project ID. If this parameter is 0, the default project will be used

3. Output Parameters

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Parameter Name	Type	Description
Count	Integer	Number of successfully modified instances
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 the instance belongs

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyDBInstanceProject
&InstanceIdSet.0=mssql-j8kv137v
&ProjectId=347
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"Count": 1
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js

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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.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyDBInstanceName

Last updated：2023-09-18 11:41:43

1. API Description

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

This API is used to rename 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: ModifyDBInstanceName.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Database instance ID in the format of mssql-njj2mtpl
InstanceName	Yes	String	New name of database instance

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Renaming the "mssql-njj2mtpl" instance to "testModifyInstanceName"

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyDBInstanceName
&InstanceId=mssql-njj2mtpl
&InstanceName=testModifyInstanceName
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

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6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.InstanceNameIsIllegal	The instance name contains invalid characters.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyAccountPrivilege

Last updated：2023-09-18 11:41:43

1. API Description

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

This API is used to modify instance account permissions.

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: ModifyAccountPrivilege.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Database instance ID in the format of mssql-njj2mtpl
Accounts.N	Yes	Array of AccountPrivilegeModifyInfo	Account permission change information

3. Output Parameters

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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 account permissions

Input Example

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

{
"InstanceId": "mssql-njj2mtpl",
"Accounts": [
{
"UserName": "testuser",
"DBPrivileges": [
{
"Privilege": "ReadOnly",
"DBName": "testdb"
}
]
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab",
"FlowId": "30321"
}
}
```

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5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.AdminAccountNotUnique	You can only apply for one admin account.
InvalidParameterValue.GrantIsIllegal	Invalid parameter. The value of `GRANT` is invalid.
ResourceNotFound.AccountNotExist	The account does not exist.

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ResourceNotFound.DBNotExit	The database does not exist.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.AccountInvalidStatus	Invalid account status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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InquiryPriceUpgradeDBInstance

Last updated：2023-09-18 11:41:43

1. API Description

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

This API is used to query the upgrade prices of a 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: InquiryPriceUpgradeDBInstance.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-njj2mtpl
Memory	Yes	Integer	Memory size after instance upgrade in GB, which cannot be smaller than the current instance memory size
Storage	Yes	Integer	Storage capacity after instance upgrade in GB, which cannot be smaller than the current instance storage capacity
Cpu	No	Integer	The number of CUP cores after the instance is upgraded, which cannot

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			be smaller than that of the current cores.

3. Output Parameters

Parameter Name	Type	Description
OriginalPrice	Integer	Price before discount. This value divided by 100 indicates the price; for example, 10094 means 100.94 USD
Price	Integer	The actual price to be paid. This value divided by 100 indicates the price; for example, 10094 means 100.94 USD
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the expansion price of an instance

This example shows you how to query the expansion price of an instance.

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=InquiryPriceUpgradeDBInstance
&InstanceId=mssql-njj2mtpl
&Memory=8
&Storage=300
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "dcff5304-324e-4cd6-a5f2-02cb16bde2da",
"OriginalPrice": 149696,
"Price": 149696
}
}
```

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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.QueryPriceFailed	Billing error. Failed to query price.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.CostTypeNotSupported	Billing type error.
InvalidParameterValue.IllegalRegion	Invalid region.
InvalidParameterValue.InstanceExpandVolumeLow	The expansion capacity of the instance is lower than the current capacity.
InvalidParameterValue.ParameterTypeError	Incorrect parameter type.

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ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeZones

Last updated：2023-09-18 11:41:43

1. API Description

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

This API is used to query currently purchasable AZs.

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: DescribeZones.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of AZs returned
ZoneSet	Array of	Array of AZs

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

4. Example

Example1 Querying all availability zones

Input Example

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

Output Example

```
{
"Response": {
"RequestId": "c877d7ce-bde9-48dc-bf8c-9efb01570caa",
"TotalCount": 34,
"ZoneSet": [
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 1,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 5,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 17,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
```

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```
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 16,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 14,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 6,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 2,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 14,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 3,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 14,
"Version": "2008R2"
},
```


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```
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 4,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 26,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 20,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 13,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 5,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 23,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 3,
```


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```
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 4,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 6,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 5,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 1,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 4,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 13,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
```


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```
"ZoneId": 100002,
"SpecId": 6,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 21,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 25,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 24,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 13,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 19,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 3,
"Version": "2008R2"
},
{
```


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```
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 2,
"Version": "2008R2"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 22,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2",
"ZoneId": 100002,
"SpecId": 2,
"Version": "2012SP3"
},
{
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3",
"ZoneId": 100003,
"SpecId": 18,
"Version": "2012SP3"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js

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- Tencent Cloud SDK 3.0 for .NET
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Command Line Interface

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6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.IllegalRegion	Invalid region.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeRollbackTime

Last updated：2023-09-18 11:41:44

1. API Description

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

This API is used to query the time range available for instance rollback.

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: DescribeRollbackTime.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
DBs.N	Yes	Array of String	List of databases to be queried

3. Output Parameters

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Parameter Name	Type	Description
Details	Array of DbRollbackTimeInfo	Information of time range available for database rollback
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the time range available for rolling back "db1" in the "mssql-j8kv137v" instance

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeRollbackTime
&InstanceId=mssql-j8kv137v
&DBs.0=db1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "780339f6-30d7-419a-a30c-c2dc0933af1c",
"Details": [
{
"DBName": "db1",
"StartTime": "2018-08-07 11:09:03",
"EndTime": "2018-08-09 11:09:03"
}
]
}
}
```

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
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeRegions

Last updated：2023-09-18 11:41:44

1. API Description

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

This API is used to query purchasable regions.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeRegions.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of regions returned
RegionSet	Array of	Region information array

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

4. Example

Example1 Querying all regions

Input Example

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

Output Example

```
{
"Response": {
"RequestId": "9b0beca5-f3ea-44d3-97de-ec8f02effaea",
"TotalCount": 9,
"RegionSet": [
{
"Region": "ap-hongkong",
"RegionName": "Hong Kong (China)",
"RegionId": 5,
"RegionState": "AVAILABLE"
},
{
"Region": "ap-shanghai-fsi",
"RegionName": "Shanghai Finance",
"RegionId": 7,
"RegionState": "AVAILABLE"
},
{
"Region": "ap-shantou",
"RegionName": "Shantou",
"RegionId": 2,
"RegionState": "UNAVAILABLE"
},
{
"Region": "ap-tianjin",
"RegionName": "Tianjin",
"RegionId": 3,
"RegionState": "UNAVAILABLE"
```

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```
},
{
"Region": "na-toronto",
"RegionName": "North America",
"RegionId": 6,
"RegionState": "UNAVAILABLE"
},
{
"Region": "ap-beijing",
"RegionName": "Beijing",
"RegionId": 8,
"RegionState": "AVAILABLE"
},
{
"Region": "ap-shenzhen-fsi",
"RegionName": "Shenzhen Finance",
"RegionId": 11,
"RegionState": "AVAILABLE"
},
{
"Region": "ap-guangzhou",
"RegionName": "Guangzhou",
"RegionId": 1,
"RegionState": "AVAILABLE"
},
{
"Region": "ap-shanghai",
"RegionName": "Shanghai",
"RegionId": 4,
"RegionState": "AVAILABLE"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.IllegalRegion	Invalid region.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeProductConfig

Last updated：2023-09-18 11:41:44

1. API Description

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

This API is used to query purchasable specification 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.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeProductConfig.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Zone	Yes	String	AZ ID in the format of ap-guangzhou-1
InstanceType	No	String	The type of instances to be purchased. Valid values: HA (High-Availability Edition, including dual-server high availability and AlwaysOn cluster), RO (read-only replica), SI (Basic Edition)

3. Output Parameters

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Parameter Name	Type	Description
SpecInfoList	Array of SpecInfo	Specification information array
TotalCount	Integer	Number of date entries returned
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the purchasable specifications of High-Availability Edition instances in Guangzhou Zone 2

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeProductConfig
&Zone=ap-guangzhou-2
&InstanceType=HA
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "2a91dd2e-f237-4c78-b06c-348a12b04a46",
"SpecInfoList": [
{
"CPU": 16,
"InstanceType": "HA",
"MachineType": "TS85",
"MachineTypeName": "High IO",
"MaxStorage": 3000,
"Memory": 128,
"MinStorage": 10,
"MultiZonesStatus": "ALL",
"PayModeStatus": "ALL",
"Pid": 10908,
"PostPid": [
10908
],
"QPS": 61000,
```

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```
"SpecId": 22,
"SuitInfo": "Large applications with tens of millions of unique users",
"Version": "2008R2",
"VersionName": "SQL Server 2008 Enterprise"
},
{
"CPU": 1,
"InstanceType": "HA",
"MachineType": "TS85",
"MachineTypeName": "High IO",
"MaxStorage": 3000,
"Memory": 8,
"MinStorage": 10,
"MultiZonesStatus": "ALL",
"PayModeStatus": "ALL",
"Pid": 10908,
"PostPid": [
10908
],
"QPS": 6500,
"SpecId": 17,
"SuitInfo": "Small applications with thousands of unique users",
"Version": "2012SP3",
"VersionName": "SQL Server 2012 Enterprise"
},
{
"CPU": 24,
"InstanceType": "HA",
"MachineType": "TS85",
"MachineTypeName": "High IO",
"MaxStorage": 3000,
"Memory": 192,
"MinStorage": 10,
"MultiZonesStatus": "ALL",
"PayModeStatus": "ALL",
"Pid": 10908,
"PostPid": [
10908
],
"QPS": 234000,
"SpecId": 34,
"SuitInfo": "Large applications with hundreds of millions of unique users",
"Version": "2012SP3",
"VersionName": "SQL Server 2012 Enterprise"
},
{
"CPU": 16,
```


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```
"InstanceType": "HA",
"MachineType": "TS85",
"MachineTypeName": "High IO",
"MaxStorage": 3000,
"Memory": 128,
"MinStorage": 10,
"MultiZonesStatus": "ALL",
"PayModeStatus": "ALL",
"Pid": 10908,
"PostPid": [
10908
],
"QPS": 61000,
"SpecId": 22,
"SuitInfo": "Large applications with tens of millions of unique users",
"Version": "2016SP1",
"VersionName": "SQL Server 2016 Enterprise"
}
],
"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 Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.IllegalRegion	Invalid region.
InvalidParameterValue.IllegalZone	Incorrect AZ ID.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeFlowStatus

Last updated：2023-09-18 11:41:45

1. API Description

Domain name for API request: sqlserver.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.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeFlowStatus.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
FlowId	Yes	Integer	Flow ID

3. Output Parameters

Parameter Name	Type	Description
Status	Integer	Flow status. 0: succeeded, 1: failed, 2: running

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

4. Example

Example1 Querying task status

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeFlowStatus
&FlowId=30403
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"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 Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
InternalError	Internal error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeDBs

Last updated：2023-09-18 11:41:45

1. API Description

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

This API is used to query the list of databases

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: DescribeDBs.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceIdSet.N	Yes	Array of String	Instance ID
Limit	No	Integer	Number of results per page. Value range: 1-100. Default value: 20
Offset	No	Integer	Page number. Default value: 0
Name	No	String	Database name
OrderByType	No	String	Sorting rule. Valid values: `desc` (descending order), `asc`

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			(ascending order). Default value: `desc` .
Encryption	No	String	TDE status. Valid values: `enable` (enabled), `disable` (disabled).

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of databases
DBInstances	Array of InstanceDBDetail	List of instance databases
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 databases

This example shows you how to query the list of databases.

Input Example

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

{
"InstanceIdSet": [
"mssql-njj2mtpl"
]
}
```

Output Example

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

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```
"RequestId": "5062de55-d048-4d3b-92f9-b98b6f244360",
"TotalCount": 1,
"DBInstances": [
{
"InstanceId": "mssql-632eyp63",
"DBDetails": [
{
"Name": "ceshi1",
"Charset": "Chinese_PRC_CI_AS",
"Remark": "Testdb1",
"CreateTime": "2018-07-02 20:12:24",
"Status": 2,
"Accounts": [
{
"UserName": "victorwind",
"Privilege": "ReadWrite"
}
],
"InternalStatus": "ONLINE"
}
]
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeDBInstances

Last updated：2023-09-18 11:41:45

1. API Description

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

This API is used to query the list 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.

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: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
ProjectId	No	Integer	Project ID
Status	No	Integer	Instance status. Valid values: • 1: applying • 2: running • 3: running restrictedly (primary/secondary switching) • 4: isolated • 5: repossessing • 6: repossessed • 7: executing task (e.g., backing up or rolling back instance) • 8: deactivated

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			• 9: scaling out instance • 10: migrating instance • 11: read-only • 12: restarting
Offset	No	Integer	Page number. Default value: 0
Limit	No	Integer	Number of results per page. Value range: 1-100. Default value: 100
InstanceIdSet.N	No	Array of String	One or more instance IDs in the format of mssql-si2823jyl
PayMode	No	Integer	Retrieves billing type. 0: pay-as-you-go
VpcId	No	String	Unique string-type ID of instance VPC in the format of `vpc-xxx` . If an empty string ("") is passed in, filtering will be made by basic network.
SubnetId	No	String	Unique string-type ID of instance subnet in the format of `subnet-xxx` . If an empty string ("") is passed in, filtering will be made by basic network.
VipSet.N	No	Array of String	The list of instance private IPs, such as 172.1.0.12
InstanceNameSet.N	No	Array of String	The list of instance names used for fuzzy match
VersionSet.N	No	Array of String	The list of instance version numbers, such as 2008R2, 2012SP3
Zone	No	String	Instance availability zone, such as ap-guangzhou-2
TagKeys.N	No	Array of String	The list of instance tags
SearchKey	No	String	Keyword used for fuzzy match, including instance ID, instance name, and instance private IP
UidSet.N	No	Array of String	Unique Uid of an instance

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InstanceType	No	String	Instance type. Valid values: `HA` (high-availability), `RO` (read-only), `SI` (basic edition), `BI` (business intelligence service).

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of eligible instances. If the results are returned in multiple pages, this value will be the number of all eligible instances but not the number of instances returned according to the current values of `Limit` and `Offset`
DBInstances	Array of DBInstance	Instance list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of instances

Input Example

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

{
"Status": "2",
"SearchKey": "172.17.0.12",
"VpcId": "vpc-mknbt351",
"Zone": "ap-guangzhou-2",
"VersionSet": [
"2008R2"
],
"ProjectId": "0",
"Offset": "0",
```

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```
"PayMode": "1",
"Limit": "3",
"InstanceIdSet": [
"mssql-3l3fgqn7"
],
"SubnetId": "subnet-f72hylo6",
"TagKeys": [
"Test tag"
],
"VipSet": [
"172.1.0.12"
],
"InstanceNameSet": [
“Data warehouse”
]
}
```

Output Example

```
{
"Response": {
"DBInstances": [
{
"BackupCycle": [
1
],
"BackupCycleType": "daily",
"BackupModel": "master_pkg",
"BackupSaveDays": 7,
"BackupTime": "07:03:00",
"Collation": "Chinese_PRC_CI_AS",
"Cpu": 4,
"CreateTime": "2022-11-07 16:21:01",
"CrossBackupEnabled": "disable",
"CrossBackupSaveDays": 0,
"CrossRegions": [],
"DnsPodDomain": "",
"EndTime": "0000-00-00 00:00:00",
"HAFlag": "SINGLE",
"InstanceId": "mssql-fz80u7u1",
"InstanceNote": "",
"InstanceType": "SI",
"IsolateOperator": "",
"IsolateTime": "0000-00-00 00:00:00",
"Memory": 8,
"Model": 2,
```

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```
"Name": "2008-2012-2016",
"PayMode": 0,
"Pid": 1003456,
"ProjectId": 0,
"ROFlag": "",
"Region": "ap-guangzhou",
"RegionId": 1,
"RenewFlag": 0,
"ResourceTags": null,
"IsDrZone": false,
"SlaveZones": {
"SlaveZone": "",
"SlaveZoneName": ""
},
"StartTime": "2022-11-07 16:21:01",
"Status": 2,
"Storage": 40,
"SubFlag": "",
"SubnetId": 2118677,
"TgwWanVPort": 0,
"TimeZone": "China Standard Time",
"Type": "CLOUD_PREMIUM",
"Uid": "gamedb.gz1208.cdb.db",
"UniqSubnetId": "subnet-ieianm0o",
"UniqVpcId": "vpc-o739nubl",
"UpdateTime": "2022-11-07 20:04:03",
"UsedStorage": 0,
"Version": "2019",
"VersionName": "SQL Server 2019 Enterprise",
"Vip": "10.24.12.28",
"VpcId": 5350471,
"Vport": 1433,
"Zone": "ap-guangzhou-1"
"ZoneId": 100003
}
],
"RequestId": "de641788-0565-4617-a7f4-639de128772b",
"TotalCount": 1
}
}
```


5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError	Internal error.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.VpcNotExist	The VPC does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeAccounts

Last updated：2023-09-18 11:41:46

1. API Description

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

This API is used to pull the list of instance 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: DescribeAccounts.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
Limit	No	Integer	Number of results per page. Value range: 1-100. Default value: 20
Offset	No	Integer	Page number. Default value: 0
Name	No	String	Account ID
OrderBy	No	String	Sorting by `createTime` , `updateTime` , or `passTime` . Default value: `createTime` (desc).

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OrderByType	No	String	Sorting rule. Valid values: `desc` (descending order), `asc` (ascending order). Default value: `desc` .

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID
Accounts	Array of AccountDetail	Account information list
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 Pulling the list of instance accounts

Input Example

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

{
"InstanceId": "mssql-j8kv137v"
}
```

Output Example

```
{
"Response": {
"InstanceId": "mssql-632eyp63",
"TotalCount": 1,
"Accounts": [
```

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```
{
"Status": 2,
"Remark": "--",
"AccountType": "L0",
"Host": "127.0.0.1",
"Name": "xiaowei",
"IsAdmin": true,
"UpdateTime": "2020-09-22 00:00:00",
"InternalStatus": "enable",
"Authentication": "win-windows",
"PassTime": "2020-09-22 00:00:00",
"Dbs": [
{
"Privilege": "ReadOnly",
"DBName": "test"
}
],
"CreateTime": "2020-09-22 00:00:00"
}
],
"RequestId": "5729760c-db94-4c71-a1ee-ebd43adae189"
}
}
```


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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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DeleteDB

Last updated：2023-09-18 11:41:46

1. API Description

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

This API is used to drop 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: DeleteDB.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-rljoi3bf
Names.N	Yes	Array of String	Array of database names

3. Output Parameters

Parameter	Type	Description

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Name		
FlowId	Integer	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 Deleting a database

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DeleteDB
&InstanceId=mssql-rljoi3bf
&Names.0=test_db
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "a928d733-109a-4f44-84ad-991da182d0a3",
"FlowId": 30467
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET

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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.GcsError	The operation failed or the network timed out.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DeleteAccount

Last updated：2023-09-18 11:41:46

1. API Description

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

This API is used to delete 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: DeleteAccount.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Database instance ID in the format of mssql-njj2mtpl
UserNames.N	Yes	Array of String	Array of instance usernames

3. Output Parameters

Parameter	Type	Description

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Name		
FlowId	Integer	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 Deleting an instance account

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DeleteAccount
&InstanceId=mssql-njj2mtpl
&UserNames.0=testusername
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab",
"FlowId": 312
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for .NET

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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
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.AccountNotExist	The account does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.AccountInvalidStatus	Invalid account status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateDBInstances

Last updated：2023-09-18 11:41:47

1. API Description

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

This API is used to create 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: CreateDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Zone	Yes	String	Instance AZ, such as ap-guangzhou-1 (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the `DescribeZones` API
Memory	Yes	Integer	Instance memory size in GB
Storage	Yes	Integer	Instance storage capacity in GB
InstanceChargeType	No	String	Billing mode. Valid value: POSTPAID (pay-as-you-go).

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ProjectId	No	Integer	Project ID
GoodsNum	No	Integer	Number of instances purchased this time. Default value: 1. Maximum value: 10
SubnetId	No	String	VPC subnet ID in the format of subnet-bdoe83fa. `SubnetId` and `VpcId` should be set or ignored simultaneously
VpcId	No	String	VPC ID in the format of vpc-dsp338hz. `SubnetId` and `VpcId` should be set or ignored simultaneously
Period	No	Integer	Length of purchase of instance. The default value is 1, indicating one month. The value cannot exceed 48
AutoVoucher	No	Integer	Whether to automatically use voucher. 0: no, 1: yes. Default value: no
VoucherIds.N	No	Array of String	Array of voucher IDs (currently, only one voucher can be used per order)
DBVersion	No	String	SQL Server version. Valid values: `2008R2` (SQL Server 2008 R2 Enterprise), `2012SP3` (SQL Server 2012 Enterprise), `201202` (SQL Server 2012 Standard), `2014SP2` (SQL Server 2014 Enterprise), 201402 (SQL Server 2014 Standard), `2016SP1` (SQL Server 2016 Enterprise), `201602` (SQL Server 2016 Standard), `2017` (SQL Server 2017 Enterprise), `201702` (SQL Server 2017 Standard), `2019` (SQL Server 2019 Enterprise), `201902` (SQL Server 2019 Standard). Default value: `2008R2`. The available version varies by region, and you can pull the version information by calling the `DescribeProductConfig` API.
AutoRenewFlag	No	Integer	Auto-renewal flag. 0: normal renewal, 1: auto-renewal. Default value: 1.
SecurityGroupList.N	No	Array of String	Security group list, which contains security group IDs in the format of sg-xxx.
Weekly.N	No	Array of Integer	Configuration of the maintenance window, which specifies the day of the week when maintenance can be performed. Valid values: 1 (Monday), 2 (Tuesday), 3 (Wednesday), 4 (Thursday), 5 (Friday), 6 (Saturday), 7 (Sunday).

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StartTime	No	String	Configuration of the maintenance window, which specifies the start time of daily maintenance.
Span	No	Integer	Configuration of the maintenance window, which specifies the maintenance duration in hours.
HAType	No	String	The type of purchased high-availability instance. Valid values: DUAL (dual-server high availability), CLUSTER (cluster). Default value: DUAL.
MultiZones	No	Boolean	Whether to deploy across availability zones. Default value: false.
ResourceTags.N	No	Array of ResourceTag	Tags associated with the instances to be created
Collation	No	String	Collation of system character sets. Default value: `Chinese_PRC_CI_AS` .
TimeZone	No	String	System time zone. Default value: `China Standard Time` .

3. Output Parameters

Parameter Name	Type	Description
DealName	String	Order name
DealNames	Array of String	Order name array
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an instance

Input Example

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

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

{
"Collation": "Chinese_PRC_CI_AS",
"TimeZone": "China Standard Time",
"Storage": 100,
"Zone": "ap-guangzhou-1",
"Memory": "2"
}
```

Output Example

```
{
"Response": {
"DealName": "20200318114212",
"DealNames": [
"20200318114212"
],
"RequestId": "2b6f7e2a-e909-4753-84b7-0db3e6099877"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
FailedOperation.CreateOrderFailed	Failed to create order.
FailedOperation.DBError	Database error.
FailedOperation.GetVpcFailed	Failed to get VPC information.
InternalError.DBError	Database error
InternalError.UnknownError	Unknown error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameter.PayOrderFailed	Failed to make order payment.
InvalidParameterValue.IllegalRegion	Invalid region.
InvalidParameterValue.IllegalSpec	Incorrect instance specification information.
InvalidParameterValue.IllegalZone	Incorrect AZ ID.
InvalidParameterValue.SecurityGroupIdIsIllegal	Invalid security group ID.
ResourceNotFound.VpcNotExist	The VPC does not exist.
ResourceUnavailable.VpcNotExist	VPC not found.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateDB

Last updated：2023-09-18 11:41:47

1. API Description

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

This API is used to create 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: CreateDB.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
DBs.N	Yes	Array of DBCreateInfo	Database creation information

3. Output Parameters

Parameter	Type	Description

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Name		
FlowId	Integer	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 Creating the "test_db" database

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=CreateDB
&InstanceId=mssql-i1z41iwd
&DBs.0.DBName=test_db
&DBs.0.Charset=Chinese_PRC_CI_AS
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FlowId": 123,
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.CharsetIsIllegal	The database character set is incorrectly set.
InvalidParameterValue.DBCharIllegal	The database name contains invalid characters.
InvalidParameterValue.DBExist	The database already exists.
InvalidParameterValue.DBNameIsKeyWrods	The database name cannot contain reserved words.
InvalidParameterValue.DataBaseRemarkIsIllegal	The database remarks are invalid.
InvalidParameterValue.GrantIsIllegal	Invalid parameter. The value of `GRANT` is invalid.
InvalidParameterValue.PrivilegeIsIllegal	Incorrect database permission settings.
LimitExceeded.TooManyDB	The database limit is exceeded.
ResourceNotFound.AccountNotExist	The account does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateAccount

Last updated：2023-09-18 11:41:48

1. API Description

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

This API is used to create 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: CreateAccount.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Database instance ID in the format of mssql-njj2mtpl
Accounts.N	Yes	Array of AccountCreateInfo	Database instance account information

3. Output Parameters

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Parameter Name	Type	Description
FlowId	Integer	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 Creating an instance account

Input Example

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

{
"InstanceId": "mssql-njj2mtpl",
"Accounts": [
{
"UserName": "testuser",
"Password": "testpassword"
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "8a61e500-aa33-454c-9ec2-da2a368c39ab",
"FlowId": "30321"
}
}
```

5. Developer Resources

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SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.AccountExist	Account already exists.
InvalidParameterValue.AccountNameIsIllegal	The account name is invalid.
InvalidParameterValue.AccountNameIsKeyWords	The account name includes restricted contents.
InvalidParameterValue.AccountRemarkIsIllegal	The account remarks are invalid.
InvalidParameterValue.AdminAccountNotUnique	You can only apply for one admin account.
InvalidParameterValue.GrantIsIllegal	Invalid parameter. The value of `GRANT` is invalid.
InvalidParameterValue.PasswordIsIllegal	The account and password are invalid.
ResourceNotFound.InstanceNotFound	The instance does not exist.

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ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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TerminateDBInstance

Last updated：2023-09-18 11:41:40

1. API Description

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

This API is used to isolate an instance to move it into a recycle bin.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: TerminateDBInstance.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceIdSet.N	Yes	Array of String	List of instance IDs manually terminated in the format of [mssql-3l3fgqn7], which are the same as the instance IDs displayed on the TencentDB Console page

3. Output Parameters

Parameter	Type	Description

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Name		
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 SQL Server instance

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=TerminateDBInstance
&InstanceIdSet.0=mssql-njj2mtpl
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "2de52957-ebe4-4d7b-8985-4e415b3fb360"
}
}
```

5. Developer Resources

SDK

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

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Command Line Interface

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6. Error Code

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

Error Code	Description
InternalError.SystemError	System error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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RecycleDBInstance

Last updated：2023-09-18 11:41:41

1. API Description

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

This API is used to return a deactivated SQL Server 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: RecycleDBInstance.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Task ID

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

4. Example

Example1 Returning an instance

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=RecycleDBInstance
&InstanceId=mssql-ms2m7vut
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FlowId": 100010,
"RequestId": "406fc840-11c1-11eb-9be8-9fd51b7c6a12"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for .NET
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Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CloneDB

Last updated：2023-09-18 11:41:48

1. API Description

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

This API is used to clone and rename databases of an instance. The clones are still in the instance from which they are cloned.

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: CloneDB.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-j8kv137v
RenameRestore.N	Yes	Array of RenameRestoreDatabase	Clone and rename the databases specified in `ReNameRestoreDatabase` . Please note that the clones must be renamed.

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3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task request ID, which can be used in the `DescribeFlowStatus` API to query the execution result of an async task
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Cloning a database

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=CloneDB
&InstanceId=mssql-njj2mtpl
&RenameRestore.0.OldName=db1
&RenameRestore.0.NewName=clone_db1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"FlowId": 3546
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.CreateFlowFailed	Failed to create flow.
InternalError.DBConnectError	Database connection error.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
InvalidParameterValue.DBCharIllegal	The database name contains invalid characters.
InvalidParameterValue.DBExist	The database already exists.
InvalidParameterValue.DBNameIsKeyWrods	The database name cannot contain reserved words.
InvalidParameterValue.DBNameSame	The new database name is the same as the old one.
InvalidParameterValue.ParameterTypeError	Incorrect parameter type.

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LimitExceeded.TooManyDB	The database limit is exceeded.
ResourceNotFound.DBNotExit	The database does not exist.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.
UnknownParameter	Unknown parameter error

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DescribeDBCharsets

Last updated：2023-09-18 11:41:46

1. API Description

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

This API is used to query the database character sets supported by 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: DescribeDBCharsets.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-j8kv137v

3. Output Parameters

Parameter Name	Type	Description
DatabaseCharsets	Array of String	Database character set list

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

4. Example

Example1 Querying the supported database character sets

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeDBCharsets
&InstanceId=mssql-njj2mtpl
&<Common request parameters>
```

Output Example

```
{
"Response": {
"DatabaseCharsets": [
"SQL_EBCDIC1141_CP1_CS_AS",
"SQL_EBCDIC277_2_CP1_CS_AS",
"SQL_Ukrainian_CP1251_CI_AS",
"SQL_Ukrainian_CP1251_CS_AS"
],
"RequestId": "b28ec299-0063-4195-9273-ebac5cdc485c"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
InternalError	Internal error.
InternalError.DBConnectError	Database connection error.
InternalError.DBError	Database error
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.InterfaceNameNotFound	The API does not exist.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue	The parameter value is invalid.
InvalidParameterValue.ParameterTypeError	Incorrect parameter type.
ResourceNotFound	Resource not found.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation	The operation is unauthorized.
UnauthorizedOperation.PermissionDenied	CAM authentication error.
UnknownParameter	Unknown parameter error

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ModifyDatabaseMdf

Last updated：2023-09-18 11:41:41

1. API Description

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

This API is used to shrink database MDF 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: ModifyDatabaseMdf.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DBNames.N	Yes	Array of String	Array of database names
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter	Type	Description

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Name		
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 Shrinking database MDF files

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyDatabaseMdf
&InstanceId=mssql-j8kv137v
&DBNames.0=test_db
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FlowId": 9999,
"RequestId": "a989d733-1099-4f44-84ad-991da182d0w3"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for .NET

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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
InternalError.DBError	Database error
InvalidParameterValue.DBNameNotNull	The database name is required.
InvalidParameterValue.ModifyTypeValueInvalid	Only `enable` and `disable` are valid values.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
ResourceUnavailable.NotSupportRoInstance	Read-Only instances are not supported.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyDatabaseCT

Last updated：2023-09-18 11:41:42

1. API Description

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

This API is used to enable or disable the change tracking (CT) feature.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyDatabaseCT.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DBNames.N	Yes	Array of String	Array of database names
ModifyType	Yes	String	Enable or disable CT. Valid values: `enable` , `disable`
InstanceId	Yes	String	Instance ID
ChangeRetentionDay	No	Integer	Retention period (in days) of change tracking information when CT is enabled. Value range: 3-30. Default value: `3`

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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 Enabling/Disabling CT

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyDatabaseCT
&InstanceId=mssql-j8kv137v
&DBNames.0=test_db
&ModifyType=enable
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FlowId": 9999,
"RequestId": "a928d733-1099-4f44-84ad-991da182d0s3"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InvalidParameterValue.DBNameNotNull	The database name is required.
InvalidParameterValue.ModifyTypeValueInvalid	Only `enable` and `disable` are valid values.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
ResourceUnavailable.NotSupportRoInstance	Read-Only instances are not supported.
UnauthorizedOperation.PermissionDenied	CAM authentication error.
UnsupportedOperation.NotSupportRepeat	Repeated operations are not supported.

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ModifyDatabaseCDC

Last updated：2023-09-18 11:41:42

1. API Description

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

This API is used to enable or disable the change data capture (CDC) feature.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyDatabaseCDC.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DBNames.N	Yes	Array of String	Array of database names
ModifyType	Yes	String	Enable or disable CDC. Valid values: `enable` , `disable`
InstanceId	Yes	String	Instance ID

3. Output Parameters

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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 Enabling/Disabling CDC

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyDatabaseCDC
&InstanceId=mssql-j8kv137v
&DBNames.0=test_db
&ModifyType=enable
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FlowId": 9999,
"RequestId": "a928d733-109a-4f44-84ad-991da182d0s3"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InvalidParameterValue.DBNameNotNull	The database name is required.
InvalidParameterValue.ModifyTypeValueInvalid	Only `enable` and `disable` are valid values.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
ResourceUnavailable.NotSupportRoInstance	Read-Only instances are not supported.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeDBsNormal

Last updated：2023-09-18 11:41:45

1. API Description

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

This API is used to query database configurations. It does not return information of the accounts that have permissions to operate the 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: DescribeDBsNormal.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-7vfv3rk3

3. Output Parameters

Parameter Name	Type	Description

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TotalCount	Integer	Total number of databases of the instance
DBList	Array of DbNormalDetail	Detailed database configurations, such as whether CDC or CT is enabled for the database
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying detailed database configurations

This example shows you how to query the detailed database configurations.

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeDBsNormal
&InstanceId=mssql-njj2mtpl
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TotalCount": 1,
"DBList": [
{
"IsFulltextEnabled": "0",
"UserAccessDesc": "MULTI_USER",
"IsMirroring": "1",
"CollationName": "Chinese_PRC_CI_AS",
"RecoveryModelDesc": "FULL",
"IsSubscribed": "1",
"StateDesc": "ONLINE",
"IsCdcEnabled": "1",
"MirroringState": "SYNCHRONIZED",
"IsPublished": "1",
"RetentionPeriod": "20",
"IsDbChainingOn": "1",
"IsEncrypted": "0",
"IsTrustworthyOn": "1",
"IsReadCommittedSnapshotOn": "0",
"IsBrokerEnabled": "1",
"IsAutoCleanupOn": "1",
```

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```
"Name": "db_test"
}
],
"RequestId": "9607d890-db08-11eb-9f54-a9df121c01af"
}
}
```

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.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.

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InvalidParameter.InputIllegal	Input error.
InvalidParameter.InterfaceNameNotFound	The API does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyInstanceParam

Last updated：2023-09-18 11:41:41

1. API Description

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

This API is used to modify instance parameters.
Note: if **the instance needs to be restarted** for the modified parameter to take effect, **it will be restarted** immediately or during the maintenance time according to the `WaitSwitch` parameter.
Before you modify a parameter, you can use the `DescribeInstanceParams` API to query whether the instance needs to be restarted.

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: ModifyInstanceParam.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceIds.N	Yes	Array of String	Instance ID list.
ParamList.N	Yes	Array of Parameter	List of modified parameters. Each list element has two fields: `Name` and `CurrentValue`. Set `Name` to the parameter

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			name and `CurrentValue` to the new value after modification. **Note**: if the instance needs to be **restarted** for the modified parameter to take effect, it will be **restarted** immediately or during the maintenance time. Before you modify a parameter, you can use the `DescribeInstanceParams` API to query whether the instance needs to be restarted.
WaitSwitch	No	Integer	When to execute the parameter modification task. Valid values: `0` (execute immediately), `1` (execute during maintenance time). Default value: `0` .

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 parameters

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyInstanceParam
&WaitSwitch=0
&InstanceIds.0=mssql-bm5e51kb
&InstanceIds.1=mssql-p2yli7gv
&InstanceIds.2=mssql-9ahw2qp9
&ParamList.0.Name=fill factor(%)
&ParamList.0.CurrentValue=50
&ParamList.1.Name=cost threshold for parallelism
&ParamList.1.CurrentValue=0
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "74172b7e-139c-4eed-b237-856f56e67f48"
```

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```
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.
UnknownParameter	Unknown parameter error

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DescribeInstanceParams

Last updated：2023-09-18 11:41:44

1. API Description

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

This API is used to query the parameter list 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: DescribeInstanceParams.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-dj5i29c5n. It is the same as the instance ID displayed in the TencentDB console and the response parameter `InstanceId` of the `DescribeDBInstances` API.

3. Output Parameters

Parameter Name	Type	Description

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TotalCount	Integer	Total number of instance parameters
Items	Array of ParameterDetail	Parameter details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the configurable parameter list of an instance

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeInstanceParams
&InstanceId=mssql-bm5e51kb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Items": [
{
"CurrentValue": "24",
"Default": "0",
"Description": "The fill-factor option is provided for fine-tuning index data sto
rage and performance.",
"EnumValue": [],
"Max": 100,
"Min": 0,
"Name": "fill factor(%)",
"NeedReboot": 1,
"ParamType": "integer",
"Status": 0
},
{
"CurrentValue": "0",
"Default": "0",
"Description": "The max worker threads option configures the number of worker thr
eads that are available SQL Server-wide to process query requests, login, logout,
and similar application requests.",
"EnumValue": [
"0"
```

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```
],
"Max": 32767,
"Min": 336,
"Name": "max worker threads",
"NeedReboot": 1,
"ParamType": "integer",
"Status": 0
},
{
"CurrentValue": "30000",
"Default": "5",
"Description": "The cost threshold for parallelism option specifies the threshold
at which SQL Server creates and runs parallel plans for queries.",
"EnumValue": [],
"Max": 32767,
"Min": 0,
"Name": "cost threshold for parallelism",
"NeedReboot": 1,
"ParamType": "integer",
"Status": 0
},
{
"CurrentValue": "1024",
"Default": "0",
"Description": "The degree of parallelism sets the number of processors employed
to run a single statement, for each parallel plan execution. ",
"EnumValue": [],
"Max": 1024,
"Min": 0,
"Name": "max degree of parallelism",
"NeedReboot": 1,
"ParamType": "integer",
"Status": 0
},
{
"CurrentValue": "0",
"Default": "0",
"Description": "The optimize for ad hoc workloads option is used to improve the e
fficiency of the plan cache for workloads that contain many single use ad hoc bat
ches.",
"EnumValue": [
"0",
"1"
],
"Max": 0,
"Min": 0,
"Name": "optimize for ad hoc workloads",
```


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```
"NeedReboot": 1,
"ParamType": "enum",
"Status": 0
},
{
"CurrentValue": "1024",
"Default": "0",
"Description": "This option changes the amount of memory the SQL Server Memory Ma
nager can allocate to a SQL Server process.",
"EnumValue": [],
"Max": 2560,
"Min": 0,
"Name": "min server memory(MB)",
"NeedReboot": 1,
"ParamType": "integer",
"Status": 0
},
{
"CurrentValue": "23",
"Default": "0",
"Description": "Use the blocked process threshold option to specify the threshol
d, in seconds, at which blocked process reports are generated.",
"EnumValue": [],
"Max": 86400,
"Min": 0,
"Name": "blocked process threshold(s)",
"NeedReboot": 1,
"ParamType": "integer",
"Status": 0
}
],
"RequestId": "8c2fa1ec-7e13-4a2b-ba20-4d5ef93047ad",
"TotalCount": 7
}
}
```


5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.ParamsNotFound	Parameter not found.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation	The operation is unauthorized.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeInstanceParamRecords

Last updated：2023-09-18 11:41:44

1. API Description

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

This API is used to query the parameter modification records 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: DescribeInstanceParamRecords.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-dj5i29c5n. It is the same as the instance ID displayed in the TencentDB console and the response parameter `InstanceId` of the `DescribeDBInstances` API.
Offset	No	Integer	Page number. Default value: `0` .
Limit	No	Integer	The maximum number of results returned per page. Maximum value: `100` . Default value: `20` .

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3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible records
Items	Array of ParamRecord	Parameter modification records
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying instance parameter modification records

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeInstanceParamRecords
&InstanceId=mssql-bm5e51kb
&Offset=0
&Limit=100
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Items": [
{
"InstanceId": "mssql-bm5e51kb",
"ModifyTime": "2021-04-09 19:04:12",
"NewValue": "60",
"OldValue": "80",
"ParamName": "fill factor(%)",
"Status": 3
},
{
"InstanceId": "mssql-bm5e51kb",
"ModifyTime": "2021-04-09 20:26:57",
"NewValue": "60",
"OldValue": "80",
```

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```
"ParamName": "fill factor(%)",
"Status": 3
}
],
"RequestId": "10684c55-95b7-40de-b070-23f02c6746d2",
"TotalCount": 2
}
}
```


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.

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ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation	The operation is unauthorized.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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OpenInterCommunication

Last updated：2023-09-18 11:41:41

1. API Description

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

This API is used to enable instance interconnection, which can interconnect business intelligence services.

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: OpenInterCommunication.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceIdSet.N	Yes	Array of String	IDs of instances with interwoking group enabled

3. Output Parameters

Parameter Name	Type	Description

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InterInstanceFlowSet	Array of InterInstanceFlow	IDs of instance and async task
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding an instance to the interworking group

Input Example

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

{
"InstanceIdSet": [
"mssql-hlh6yka1",
"mssql-gfh54fg2"
]
}
```

Output Example

```
{
"Response": {
"InterInstanceFlowSet": [
{
"FlowId": 0,
"InstanceId": "mssql-hlh6yka1"
},
{
"FlowId": 1253,
"InstanceId": "mssql-gfh54fg2"
}
],
"RequestId": "fc3376a3-4585-4442-87cd-6076d3b510bc"
}
}
```

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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.DBError	Database error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeDBInstanceInter

Last updated：2023-09-18 11:41:45

1. API Description

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

This API is used to query the information of the interconnected 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.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeDBInstanceInter.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Limit	Yes	Integer	The maximum number of results returned per page. Value range: 1-100.
InstanceId	No	String	Filter by instance ID
Status	No	Integer	Filter by status. Valid values: `1` (Enabling interworking IP), `2` (Enabled interworking IP), `3` (Adding to interworking group), `4` (Added to interworking group), `5` (Reclaiming interworking IP), `6` (Reclaimed interworking IP), `7` (Removing from interworking group), `8` (Removed from interworking group).

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VersionSet.N	No	Array of String	The list of instance version numbers
Zone	No	String	Instance AZ ID in the format of ap-guangzhou-2
Offset	No	Integer	Page number. Default value: `0` .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of records returned
InterInstanceSet	Array of InterInstance	Details of instance in the interworking group
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the status of an instance in the interworking group

This example shows you how to query the status of an instance in the interworking group. The interworking private IP is used in SSIS service.

Input Example

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

{
"Offset": 0,
"Limit": 20,
"InstanceId": "mssqlbi-q1atet3b"
}
```

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Output Example


```
{
"Response": {
"InterInstanceSet": [
{
"InstanceId": "mssql-30vft2ix",
"InterPort": 1028,
"InterVip": "192.168.0.1",
"Name": "xxx",
"Region": "ap-guangzhou",
"Status": 1,
"Version": "2012SP3",
"VersionName": "SQL Server 2012 Enterprise",
"Vip": "192.168.0.2",
"Vport": 1433,
"Zone": "ap-guangzhou-3"
},
{
"InstanceId": "mssql-iqnuxv3j",
"InterPort": 1026,
"InterVip": "192.168.0.1",
"Name": "xxxx",
"Region": "ap-guangzhou",
"Status": 1,
"Version": "2017",
"VersionName": "SQL Server 2017 Enterprise",
"Vip": "192.168.0.2",
"Vport": 1433,
"Zone": "ap-guangzhou-3"
},
{
"InstanceId": "mssql-ngc6786l",
"InterPort": 1029,
"InterVip": "192.168.0.1",
"Name": "xxxx",
"Region": "ap-guangzhou",
"Status": 1,
"Version": "2008R2",
"VersionName": "SQL Server 2008 Enterprise",
"Vip": "192.168.0.2",
"Vport": 1433,
"Zone": "ap-guangzhou-3"
}
],
"RequestId": "ff9c5a56-1d33-4707-b656-a715240635ad",
"TotalCount": 3
```


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```
}
}
```

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 .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.DBError	Database error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeBusinessIntelligenceFile

Last updated：2023-09-18 11:41:46

1. API Description

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

This API is used to query the files required by business intelligence service.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBusinessIntelligenceFile.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
FileName	No	String	File name
StatusSet.N	No	Array of Integer	Migration task status set. Valid values: `1` (Initialize to be deployed), `2` (Deploying), `3` (Deployment successful), `4` (Deployment failed)
FileType	No	String	File type. Valid values: `FLAT` (flat files), `SSIS` (project file for business intelligence service).

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Limit	No	Integer	The maximum number of results returned per page. Value range: 1-100.
Offset	No	Integer	Page number. Default value: `0` .
OrderBy	No	String	Sorting field. Valid values: `file_name` , `create_time` , `start_time` .
OrderByType	No	String	Sorting order: Valid values: `desc` , `asc` .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of file deployment tasks
BackupMigrationSet	Array of BusinessIntelligenceFile	File deployment task set
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the files required by business intelligence service

Input Example

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

{
"Offset": 0,
"Limit": 10,
"OrderByType": "desc",
"OrderBy": "create_time",
"InstanceId": "mssqlbi-fo2dwujt",
"FileName": "test",
"FileType": "FLAT",
```

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```
"StatusSet": [
1
]
}
```

Output Example


```
{
"Response": {
"BackupMigrationSet": [
{
"Action": {
"AllAction": [
"view",
"remark",
"delete"
],
"AllowedAction": [
"view",
"remark",
"delete"
]
},
"CreateTime": "2022-08-05 14:14:17",
"EndTime": "0000-00-00 00:00:00",
"FileMd5": "",
"FileName": "test.xlsx",
"FilePath": "D:\\SSIS\\",
"FileSize": 0,
"FileType": "FLAT",
"FileURL": "http://sqlserver-gz-test-1251966477.cos.ap-guangzhou.myqcloud.com/test.xlsx",
"InstanceId": "mssqlbi-fo2dwujt",
"Message": "",
"Remark": "Remark",
"StartTime": "0000-00-00 00:00:00",
"Status": 1
}
],
"RequestId": "13903852-75f7-4977-9965-aa4babeadbd5",
"TotalCount": 1
}
}
```


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5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DeleteBusinessIntelligenceFile

Last updated：2023-09-18 11:41:46

1. API Description

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

This API is used to delete a business intelligence service file.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteBusinessIntelligenceFile.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
FileNameSet.N	Yes	Array of String	File name set

3. Output Parameters

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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 business intelligence flat file

Input Example

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

{
"InstanceId": "mssqlbi-fo2dwujt",
"FileNameSet": [
"test.xlsx"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "b2231cb2-9415-46af-b48f-bab65e06b091"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for 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.DBError	Database error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateBusinessIntelligenceFile

Last updated：2023-09-18 11:41:47

1. API Description

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

This API is used to add a business intelligence service file.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateBusinessIntelligenceFile.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
FileURL	Yes	String	
FileType	Yes	String	File type. Valid values: `FLAT` (flat file as data source), `SSIS` (.ispac SSIS package file)
Remark	No	String	Remarks

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3. Output Parameters

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

4. Example

Example1 Creating a business intelligence flat file

Input Example

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

{
"Remark": "aa",
"FileURL": "http://xxxxxxxx.cos.ap-guangzhou.myqcloud.com/test.xlsx",
"InstanceId": "mssqlbi-fo2dwujt",
"FileType": "FLAT"
}
```

Output Example

```
{
"Response": {
"FileTaskId": "test.xlsx",
"RequestId": "9f36fb2e-ae6b-4d18-b1b3-a79111ce4b33"
}
}
```

5. Developer Resources

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SDK

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateBusinessDBInstances

Last updated：2023-09-18 11:41:48

1. API Description

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

This API is used to create a business intelligence service 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: CreateBusinessDBInstances.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Zone	Yes	String	Instance AZ, such as ap-guangzhou-1 (Guangzhou Zone 1). Purchasable AZs for an instance can be obtained through the `DescribeZones` API.
Memory	Yes	Integer	Instance memory size in GB
Storage	Yes	Integer	Instance disk size in GB
Cpu	Yes	Integer	The number of CPU cores of the instance you want to purchase.

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MachineType	Yes	String	The host type of purchased instance. Valid values: `CLOUD_PREMIUM` (virtual machine with premium cloud disk), `CLOUD_SSD` (virtual machine with SSD).
ProjectId	No	Integer	Project ID
GoodsNum	No	Integer	Number of instances purchased this time. Default value: `1` .
SubnetId	No	String	VPC subnet ID in the format of subnet-bdoe83fa. Both `SubnetId` and `VpcId` need to be set or unset at the same time.
VpcId	No	String	VPC ID in the format of vpc-dsp338hz. Both `SubnetId` and `VpcId` need to be set or unset at the same time.
DBVersion	No	String	- Supported versions of business intelligence server. Valid values: `201603` (SQL Server 2016 Integration Services), `201703` (SQL Server 2017 Integration Services), `201903` (SQL Server 2019 Integration Services). Default value: `201903` . As the purchasable versions are region-specific, you can use the `DescribeProductConfig` API to query the information of purchasable versions in each region.
SecurityGroupList.N	No	Array of String	Security group list, which contains security group IDs in the format of sg-xxx.
Weekly.N	No	Array of Integer	Configuration of the maintenance window, which specifies the day of the week when maintenance can be performed. Valid values: `1` (Monday), `2` (Tuesday), `3` (Wednesday), `4` (Thursday), `5` (Friday), `6` (Saturday), `7` (Sunday).
StartTime	No	String	Configuration of the maintenance window, which specifies the start time of daily maintenance.
Span	No	Integer	Configuration of the maintenance window, which specifies the maintenance duration in hours.
ResourceTags.N	No	Array of ResourceTag	Tags associated with the instances to be created

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3. Output Parameters

Parameter Name	Type	Description
DealName	String	Order name
FlowId	Integer	Process ID Note: This field may return null, indicating that no valid values can be obtained.
InstanceIdSet	Array of String	IDs of instances 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 business intelligence service instance

This example shows you how to create a business intelligence service instance.

Input Example

```
POST / HTTP/1.1Host: sqlserver.tencentcloudapi.comContent-Type: application/jsonX
-TC-Action: CreateBusinessDBInstances<common request parameters>{ "Storage": 50,
"Cpu": 1, "Zone": "ap-guangzhou-1", "Memory": 2, "ProjectId": 1, "GoodsNum": 1,
"SubnetId": "subnet-xxxx", "VpcId": "vpc-xxxxxx", "DBVersion": "201703", "StartTi
me": "01:34", "Span": 4, "MachineType": "CLOUD_PREMIUM", "Weekly": [ 1, 5 ]}
```

Output Example

```
{
"Response": {
"DealName": "20200318114212",
"RequestId": "2b6f7e2a-e909-4753-84b7-0db3e6099877",
"FlowId": 100439,
"InstanceIdSet": [
"mssqlbi-sdjiej23"
]
}
}
```

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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.CreateOrderFailed	Failed to create order.
FailedOperation.DBError	Database error.
FailedOperation.GetVpcFailed	Failed to get VPC information.
InternalError.DBError	Database error
InternalError.UnknownError	Unknown error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameter.PayOrderFailed	Failed to make order payment.
InvalidParameterValue.IllegalRegion	Invalid region.

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InvalidParameterValue.IllegalSpec	Incorrect instance specification information.
InvalidParameterValue.IllegalZone	Incorrect AZ ID.
InvalidParameterValue.SecurityGroupIdIsIllegal	Invalid security group ID.
ResourceNotFound.VpcNotExist	The VPC does not exist.
ResourceUnavailable.VpcNotExist	VPC not found.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CloseInterCommunication

Last updated：2023-09-18 11:41:48

1. API Description

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

This API is used to disable instance interconnection.

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: CloseInterCommunication.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceIdSet.N	Yes	Array of String	IDs of instances with interconnection disabled

3. Output Parameters

Parameter Name	Type	Description

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InterInstanceFlowSet	Array of InterInstanceFlow	IDs of instance and async task
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Removing an instance from an interworking group

Input Example

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

{
"InstanceIdSet": [
"mssql-hlh6yka1",
"mssql-gfh54fg2"
]
}
```

Output Example

```
{
"Response": {
"Response": {
{
"FlowId": 0,
"InstanceId": "mssql-hlh6yka1"
},
{
"FlowId": 1253,
"InstanceId": "mssql-gfh54fg2"
}
],
"RequestId": "fc3376a3-4585-4442-87cd-6076d3b510bc"
}
}
```

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5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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Network Management APIs
ModifyDBInstanceNetwork

Last updated：2023-12-11 16:56:44

1. API Description

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

This API is used to switch a running instance from a VPC to another.

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: ModifyDBInstanceNetwork.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
NewVpcId	Yes	String	ID of the new VPC
NewSubnetId	Yes	String	ID of the new subnet

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Parameter Name	Required	Type	Description
OldIpRetainTime	No	Integer	Retention period (in hours) of the original VIP. Value range: `0-168` . Default value: `0` , indicating the original VIP is released immediately.
Vip	No	String	New VIP

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	ID of the instance network changing task. You can use the DescribeFlowStatus API to query the task status.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the instance network

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyDBInstanceNetwork
&InstanceId=mssql-p2yli7gv
&NewVpcId=vpc-ilki4qdp
&NewSubnetId=subnet-lru6dhh8
&Vip=127.0.0.1
&OldIpRetainTime=12
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "20db6661-2a85-49d9-8a37-976b931649fb",
"FlowId": 100125
```

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```
}
}
```

Example2 Modifying the instance network

Input Example

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

{
"InstanceId": "mssql-e720ieef",
"NewVpcId": "vpc-kw88teud",
"NewSubnetId": "subnet-8z5n8tcg",
"OldIpRetainTime": "0"
}
```

Output Example

```
{
"Response": {
"FlowId": 1011581,
"RequestId": "bdac237c-b9b7-4050-9284-97898cca5883"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
FailedOperation.GetVpcFailed	Failed to get VPC information.
FailedOperation.VPCError	Failed to operate the network or the session timed out.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.CreateFlowFailed	Failed to create flow.
InternalError.DBConnectError	Database connection error.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InternalError.VPCError	VPC error
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue	The parameter value is invalid.
ResourceNotFound	Resource not found.
ResourceNotFound.InstanceNotFound	The instance does not exist.

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Error Code	Description
ResourceNotFound.VpcNotExist	The VPC does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
ResourceUnavailable.VpcNotExist	VPC not found.
UnauthorizedOperation.PermissionDenied	CAM authentication error.
UnknownParameter	Unknown parameter error
UnsupportedOperation.NotSupportRepeat	Repeated operations are not supported.

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Backup APIs
RunMigration

Last updated：2023-09-18 11:41:49

1. API Description

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

This API is used to start running a migration task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: RunMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
MigrateId	Yes	Integer	Migration task ID

3. Output Parameters

Parameter Name	Type	Description

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FlowId	Integer	After the migration task starts, the flow ID will be returned
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Running a migration task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=RunMigration
&MigrateId=2729
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba35",
"FlowId": 30530
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

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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.DBError	Database error.
InternalError	Internal error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
LimitExceeded.TooManyDB	The database limit is exceeded.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyMigration

Last updated：2023-09-18 11:41:49

1. API Description

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

This API is used to modify an existing migration task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
MigrateId	Yes	Integer	Migration task ID
MigrateName	No	String	New name of migration task. If this parameter is left empty, no modification will be made
MigrateType	No	Integer	New migration type (1: structure migration, 2: data migration, 3: incremental sync). If this parameter is left empty, no modification will be made

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SourceType	No	Integer	Migration source type. 1: TencentDB for SQL Server, 2: CVM-based self-created SQL Server database; 3: SQL Server backup restoration, 4: SQL Server backup restoration (in COS mode). If this parameter is left empty, no modification will be made
Source	No	MigrateSource	Migration source. If this parameter is left empty, no modification will be made
Target	No	MigrateTarget	Migration target. If this parameter is left empty, no modification will be made
MigrateDBSet.N	No	Array of MigrateDB	Database objects to be migrated. This parameter is not used for offline migration (SourceType=4 or SourceType=5). If it left empty, no modification will be made

3. Output Parameters

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

4. Example

Example1 Modifying a migration task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyMigration
&MigrateId=2728
&MigrateName=Test API
&MigrateType=2
&SourceType=5
&Source.Url.0=http://gz-oncvm-1254065710.cosgz.myqcloud.com/testdb.bak
&Target.InstanceId=mssql-si2823jyl
&<Common request parameters>
```

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Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"MigrateId": 2728
}
}
```

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 Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError	Internal error.
InternalError.CreateFlowFailed	Failed to create flow.

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InternalError.DBConnectError	Database connection error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.MigrationNameIsIllegal	The migration name contains invalid characters.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceMigrateRegionIllegal	Invalid instance migration region.
ResourceUnavailable.InstanceMigrateStatusInvalid	Invalid instance migration status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeMigrations

Last updated：2023-09-18 11:41:50

1. API Description

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

This API is used to query the list of eligible migration tasks based on the entered criteria.

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: DescribeMigrations.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
StatusSet.N	No	Array of Integer	Status set. As long as a migration task is in a status therein, it will be listed
MigrateName	No	String	Migration task name (fuzzy match)
Limit	No	Integer	Number of results per page. Value range: 1-100. Default value: 100
Offset	No	Integer	Page number. Default value: 0
OrderBy	No	String	The query results are sorted by keyword. Valid values: name, createTime, startTime, endTime, status

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OrderByType	No	String	Sorting order. Valid values: desc, asc

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of query results
MigrateTaskSet	Array of MigrateTask	List of query results
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 migration tasks

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeMigrations
&MigrateName=Test
&Limit=10
&Offset=0
&OrderBy=name
&OrderByType=desc
&StatusSet.0=1
&StatusSet.1=4
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "728ba95f-0443-41ec-82c9-44bc8bfc0802",
"TotalCount": 2,
"MigrateTaskSet": [
{
"MigrateId": 2734,
"MigrateName": "Test migration",
```

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```
"AppId": 1251006373,
"Region": "ap-guangzhou",
"SourceType": 5,
"CreateTime": "2018-08-09 11:46:15",
"StartTime": "0000-00-00 00:00:00",
"EndTime": "0000-00-00 00:00:00",
"Status": 1,
"Message": "",
"CheckFlag": 0,
"Progress": 0,
"MigrateDetail": {
"StepName": "",
"Progress": 0
}
},
{
"MigrateId": 2732,
"MigrateName": "Test API",
"AppId": 1251006373,
"Region": "ap-guangzhou",
"SourceType": 5,
"CreateTime": "2018-08-08 21:03:09",
"StartTime": "0000-00-00 00:00:00",
"EndTime": "0000-00-00 00:00:00",
"Status": 1,
"Message": "",
"CheckFlag": 0,
"Progress": 0,
"MigrateDetail": {
"StepName": "",
"Progress": 0
}
}
]
}
}
```


5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError	Internal error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeMigrationDetail

Last updated：2023-09-18 11:41:50

1. API Description

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

This API is used to query migration task details.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeMigrationDetail.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
MigrateId	Yes	Integer	Migration task ID

3. Output Parameters

Parameter Name	Type	Description

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MigrateId	Integer	Migration task ID
MigrateName	String	Migration task name
AppId	Integer	User ID of migration task
Region	String	Migration task region
SourceType	Integer	Migration source type. 1: TencentDB for SQL Server, 2: CVM-based self-created SQL Server database; 3: SQL Server backup restoration, 4: SQL Server backup restoration (in COS mode)
CreateTime	Timestamp	Migration task creation time
StartTime	Timestamp	Migration task start time
EndTime	Timestamp	Migration task end time
Status	Integer	Migration task status (1: initializing, 4: migrating, 5: migration failed, 6: migration succeeded)
Progress	Integer	Migration task progress
MigrateType	Integer	Migration type (1: structure migration, 2: data migration, 3: incremental sync)
Source	MigrateSource	Migration source
Target	MigrateTarget	Migration target
MigrateDBSet	Array of MigrateDB	Database objects to be migrated. This parameter is not used for offline migration (SourceType=4 or SourceType=5)
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying migration task details

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeMigrationDetail
&MigrateId=2728
&<Common request parameters>
```

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Output Example


```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"MigrateId": 2728,
"MigrateName": "Test API",
"AppId": 1254065710,
"Region": "ap-guangzhou",
"SourceType": 5,
"CreateTime": "2018-08-06 17:44:58",
"StartTime": "2020-09-22 00:00:00",
"EndTime": "2020-09-22 00:00:00",
"Status": 1,
"Progress": 0,
"MigrateType": 2,
"Source": {
"InstanceId": "",
"CvmId": "",
"VpcId": "",
"SubnetId": "",
"UserName": "",
"Password": "",
"Ip": "",
"Port": 0,
"Url": [
"http://gz-oncvm-1254065710.cosgz.myqcloud.com/test4_20180724021516.bak",
"http://gz-oncvm-1254065710.cosgz.myqcloud.com/testdb.bak"
]
},
"Target": {
"UserName": "",
"Password": ""
},
"MigrateDBSet": []
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError	Internal error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeBackups

Last updated：2023-09-18 11:41:51

1. API Description

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

This API is used to query the list of backups.

A maximum of 60 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: DescribeBackups.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
StartTime	Yes	Timestamp	Start name (yyyy-MM-dd HH:mm:ss)
EndTime	Yes	Timestamp	End time (yyyy-MM-dd HH:mm:ss)
InstanceId	Yes	String	Instance ID in the format of mssql-njj2mtpl
Limit	No	Integer	Number of results per page. Value range: 1-100. Default value: 20
Offset	No	Integer	Page number. Default value: 0

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BackupName	No	String	Filter by backup name. If this parameter is left empty, backup name will not be used in filtering.
Strategy	No	Integer	Filter by backup policy. Valid values: 0 (instance backup), 1 (multi-database backup). If this parameter is left empty, backup policy will not be used in filtering.
BackupWay	No	Integer	Filter by backup mode. Valid values: `0` (scheduled backup); `1` (manual backup); `2` (archive backup). Default value: `2`.
BackupId	No	Integer	Filter by backup ID. If this parameter is left empty, backup ID will not be used in filtering.
DatabaseName	No	String	Filter backups by the database name. If the parameter is left empty, this filter criteria will not take effect.
Group	No	Integer	Whether to group backup files by backup task. Valid value: `0` (no), `1` (yes). Default value: `0`. This parameter is valid only for unarchived backup files.
Type	No	Integer	Backup type. Valid values: `1` (data backup), `2` (log backup). Default value: `1`.
BackupFormat	No	String	Filter by backup file format. Valid values: `pkg` (archive file), `single` (Unarchived files).

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of backups
Backups	Array of Backup	Backup list details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

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Example1 Querying the list of backups

Input Example

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

{
"InstanceId": "mssql-njj2mtpl",
"EndTime": "2018-04-20 00:00:00",
"Limit": "20",
"StartTime": "2018-03-28 00:00:00",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"RequestId": "863b2797-858b-49f3-88e9-50159e564cbc",
"TotalCount": 1,
"Backups": [
{
"BackupFormat": "single",
"BackupName": "mssql-xxx_20220619114124",
"BackupWay": 0,
"DBs": [
"test_db"
],
"CrossBackupAddr": [
{
-77"CrossExternalAddr": "http",
"CrossInternalAddr": "http",
"CrossRegion": "ap-beijing"
}
],
"CrossBackupStatus": [
{
"CrossRegion": "ap-beijing",
"CrossStatus": 1
}
],
"EndTime": "2022-06-19 11:54:53",
```

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```
"ExternalAddr": "",
"FileName": "",
"GroupId": "16556099469691",
"Id": 0,
"InternalAddr": "",
"Size": 20887196,
"StartTime": "2022-06-19 11:41:24",
"Status": 1,
"Strategy": 0,
"Region": "ap-guangzhou"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description

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FailedOperation.CosError	Failed to access COS.
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError	Internal error.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DeleteMigration

Last updated：2023-09-18 11:41:52

1. API Description

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

This API is used to delete a migration task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
MigrateId	Yes	Integer	Migration task ID

3. Output Parameters

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

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		locating a problem.

4. Example

Example1 Deleting a migration task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DeleteMigration
&MigrateId=2729
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3"
}
}
```

5. Developer Resources

SDK

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- 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
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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError	Internal error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceUnavailable.InstanceMigrateStatusInvalid	Invalid instance migration status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateMigration

Last updated：2023-09-18 11:41:52

1. API Description

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

This API is used to create a migration task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
MigrateName	Yes	String	Migration task name
MigrateType	Yes	Integer	Migration type (1: structure migration, 2: data migration, 3: incremental sync)
SourceType	Yes	Integer	Migration source type. 1: TencentDB for SQL Server, 2: CVM-based self-created SQL Server database; 3: SQL Server backup

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			restoration, 4: SQL Server backup restoration (in COS mode)
Source	Yes	MigrateSource	Migration source
Target	Yes	MigrateTarget	Migration target
MigrateDBSet.N	No	Array of MigrateDB	Database objects to be migrated. This parameter is not used for offline migration (SourceType=4 or SourceType=5)
RenameRestore.N	No	Array of RenameRestoreDatabase	Restore and rename the databases listed in `ReNameRestoreDatabase`. If this parameter is left empty, all restored databases will be renamed in the default format. This parameter takes effect only when `SourceType=5`.

3. Output Parameters

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

4. Example

Example1 Creating a migration task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=CreateMigration
&MigrateName=Test API
&MigrateType=2
&SourceType=5
&Source.Url.0=http://gz-oncvm-1254065710.cosgz.myqcloud.com/testdb.bak
&Target.InstanceId=mssql-si2823jyl
&<Common request parameters>
```

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Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"MigrateId": 2728
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for Node.js
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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.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InternalError	Internal error.

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InternalError.CreateFlowFailed	Failed to create flow.
InternalError.DBConnectError	Database connection error.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.DBCharIllegal	The database name contains invalid characters.
InvalidParameterValue.DBExist	The database already exists.
InvalidParameterValue.MigrationNameIsIllegal	The migration name contains invalid characters.
InvalidParameterValue.OnCvmTypeNotSupported	Basic edition instances are not supported.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceMigrateRegionIllegal	Invalid instance migration region.
ResourceUnavailable.InstanceMigrateStatusInvalid	Invalid instance migration status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateBackup

Last updated：2023-09-18 11:41:53

1. API Description

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

This API is used to create a backup.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateBackup.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Strategy	No	Integer	Backup policy (0: instance backup, 1: multi-database backup)
DBNames.N	No	Array of String	List of names of databases to be backed up (required only for multi-database backup)
InstanceId	No	String	(Required) Instance ID in the format of mssql-i1z41iwd
BackupName	No	String	Backup name. If this parameter is left empty, a backup name in the format of "[Instance ID]_[Backup start timestamp]" will be automatically generated.

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StorageStrategy	No	Integer	

3. Output Parameters

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

4. Example

Example1 Creating a backup

This example shows you how to create a backup.

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=CreateBackup
&InstanceId=mssql-njj2mtpl
&Strategy=1
&DBNames.0=db1
&DBNames.1=db2
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"FlowId": 5293
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InternalError	Internal error.
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
LimitExceeded.TooManyDB	The database limit is exceeded.
ResourceNotFound.DBNotFound	The database does not exist.

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ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyBackupStrategy

Last updated：2023-09-18 11:41:50

1. API Description

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

This API is used to modify the backup policy.

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: ModifyBackupStrategy.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID.
BackupType	No	String	Backup type. Valid values: `weekly` (when length(BackupDay) <=7 && length(BackupDay) >=2), `daily` (when length(BackupDay)=1). Default value: `daily` .
BackupTime	No	Integer	Backup time. Value range: an integer from 0 to 23.
BackupDay	No	Integer	Backup interval in days when the `BackupType` is

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			`daily` . Valid value: 1.
BackupModel	No	String	Backup mode. Valid values: `master_pkg` (archive the backup files of the primary node), `master_no_pkg` (do not archive the backup files of the primary node), `slave_pkg` (archive the backup files of the replica node), `slave_no_pkg` (do not archive the backup files of the replica node). Backup files of the replica node are supported only when Always On disaster recovery is enabled.
BackupCycle.N	No	Array of Integer	The days of the week on which backup will be performed when “BackupType” is `weekly` . If data backup retention period is less than 7 days, the values will be 1-7, indicating that backup will be performed everyday by default; if data backup retention period is greater than or equal to 7 days, the values will be at least any two days, indicating that backup will be performed at least twice in a week by default.
BackupSaveDays	No	Integer	Data (log) backup retention period. Value range: 3-1830 days, default value: 7 days.
RegularBackupEnable	No	String	Archive backup status. Valid values: `enable` (enabled); `disable` (disabled). Default value: `disable` .
RegularBackupSaveDays	No	Integer	Archive backup retention days. Value range: 90–3650 days. Default value: 365 days.
RegularBackupStrategy	No	String	Archive backup policy. Valid values: `years` (yearly); `quarters (quarterly);` months `(monthly); Default value:` months`.
RegularBackupCounts	No	Integer	The number of retained archive backups. Default value: `1` .
RegularBackupStartTime	No	String	Archive backup start date in YYYY-MM-DD format, which is the current time by default.

3. Output Parameters

Parameter Name	Type	Description

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Errno	Integer	Returned error code.
Msg	String	Returned error message.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the backup policy of the "mssql-j8kv137v" instance

Input Example

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

{
"BackupTime": "14",
"InstanceId": "mssql-j8kv137v",
"RegularBackupCounts": "1",
"BackupSaveDays": "7",
"BackupDay": "1",
"RegularBackupSaveDays": "365",
"BackupType": "daily",
"RegularBackupEnable": "enable",
"RegularBackupStrategy": "month",
"RegularBackupStartTime": "2022-10-10"
}
```

Output Example

```
{
"Response": {
"RequestId": "780339f6-30d7-419a-a30c-c2dc0933af1c",
"Errno": 0,
"Msg": ""
}
}
```

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5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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StartIncrementalMigration

Last updated：2023-09-18 11:41:49

1. API Description

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

This API is used to start an incremental backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: StartIncrementalMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API CreateBackupMigration
IncrementalMigrationId	Yes	String	ID of an incremental backup import task

3. Output Parameters

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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 Starting an incremental import task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=StartIncrementalMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IncrementalMigrationId=mssql-incremental-migration-kp7bgv8p
&<common request parameters>
```

Output Example

```
{
"Response": {
"FlowId": 1001403,
"RequestId": "6f2b5d2b-a3c1-426d-8e1c-325a69ccb694"
}
}
```

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.MigrationLockError	Locking the backup import task failed.
InternalError.CosError	COS API error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
ResourceNotFound.BackupNotFound	The backup does not exist.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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StartBackupMigration

Last updated：2023-09-18 11:41:49

1. API Description

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

This API is used to start a backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: StartBackupMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API CreateBackupMigration

3. Output Parameters

Parameter	Type	Description

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Name		
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 Starting a full migration task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=StartBackupMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-kpl74n9l
&<common request parameters>
```

Output Example

```
{
"Response": {
"FlowId": 1001399,
"RequestId": "551b4694-5f0b-43e7-a62d-94afb2af4d3d"
}
}
```

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 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.DBError	Database error.
FailedOperation.MigrationLockError	Locking the backup import task failed.
InternalError.CosError	COS API error.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
ResourceNotFound.BackupNotFound	The backup does not exist.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyIncrementalMigration

Last updated：2023-09-18 11:41:49

1. API Description

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

This API is used to modify an incremental backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyIncrementalMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API CreateBackupMigration
IncrementalMigrationId	Yes	String	Incremental backup import task ID, which is returned through the `CreateIncrementalMigration` API.
IsRecovery	No	String	Whether to restore backups. Valid values: `NO` , `YES` . If this parameter is not specified, current settings will be applied.

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BackupFiles.N	No	Array of String	If the UploadType is COS_URL, fill in URL here. If the UploadType is COS_UPLOAD, fill in the name of the backup file here. Only 1 backup file is supported, but a backup file can involve multiple databases.

3. Output Parameters

Parameter Name	Type	Description
IncrementalMigrationId	String	ID of an incremental backup import task
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying an incremental migration task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyIncrementalMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IncrementalMigrationId=mssql-incremental-migration-kp7bgv8p
&IsRecovery=YES
&BackupFiles.0=db_cvm_1_20200927204209_2log2_2reconvery2.bak
&<common request parameters>
```

Output Example

```
{
"Response": {
"IncrementalMigrationId": "mssql-incremental-migration-kp7bgv8p",
"RequestId": "dab70669-594b-4610-981b-5bfeef7182bb"
}
}
```

5. Developer Resources

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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.MigrationLockError	Locking the backup import task failed.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
InvalidParameterValue.MigrationNameIsIllegal	The migration name contains invalid characters.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyBackupMigration

Last updated：2023-09-18 11:41:50

1. API Description

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

This API is used to modify a backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyBackupMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API CreateBackupMigration
MigrationName	No	String	Task name
RecoveryType	No	String	Migration task restoration type: FULL,FULL_LOG,FULL_DIFF

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UploadType	No	String	COS_URL: the backup is stored in user's Cloud Object Storage, with URL provided. COS_UPLOAD: the backup is stored in the application's Cloud Object Storage and needs to be uploaded by the user.
BackupFiles.N	No	Array of String	If the UploadType is COS_URL, fill in URL here. If the UploadType is COS_UPLOAD, fill in the name of the backup file here. Only 1 backup file is supported, but a backup file can involve multiple databases.
DBRename.N	No	Array of RenameRestoreDatabase	Name set of databases to be renamed

3. Output Parameters

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

4. Example

Example1 Modifying a full backup import task

Input Example

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

{
"BackupMigrationId": "mssql-backup-migration-kpl74n9l",
"InstanceId": "mssql-rdc0gajn",
"UploadType": "COS_UPLOAD",
"BackupFiles": [
"db1.bak"
```

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```
],
"MigrationName": "character string",
"RecoveryType": "FULL"
}
```

Output Example

```
{
"Response": {
"BackupMigrationId": "mssql-backup-migration-kpl74n9l",
"RequestId": "836a10d3-cd1f-4ac1-96a9-f2e642333f0b"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description

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FailedOperation.MigrationLockError	Locking the backup import task failed.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
InvalidParameterValue.MigrationNameIsIllegal	The migration name contains invalid characters.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeUploadBackupInfo

Last updated：2023-09-18 11:41:50

1. API Description

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

This API is used to query a backup upload permission.

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: DescribeUploadBackupInfo.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API CreateBackupMigration

3. Output Parameters

Parameter Name	Type	Description

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BucketName	String	Bucket name
Region	String	Bucket location information
Path	String	Storage path
TmpSecretId	String	Temporary key ID
TmpSecretKey	String	Temporary key (Key)
XCosSecurityToken	String	Temporary key (Token)
StartTime	String	Temporary key start time
ExpiredTime	String	Temporary key expiration time
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the upload key of full backups

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeUploadBackupInfo
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-kpl74n9l
&<common request parameters>
```

Output Example


```
{
"Response": {
"BucketName": "cosbacktest-1254065710",
"ExpiredTime": "1601205149",
"Path": "251006279/sqlserver/mssql-rdc0gajn/migration/backup/mssql-backup-migrati
on-kpl74n9l/",
"Region": "ap-guangzhou",
"RequestId": "6ce2010c-a9c2-474d-860e-f2c8581304eb",
"StartTime": "1601204649",
"TmpSecretId": "AKID44fDXXXXXXXXXXXXXXXXXXXXXXXXX",
"TmpSecretKey": "2jWOoltcvf21JIsNUaXXXXXXXXXXXXXXXXXXXXXXXX",
"XCosSecurityToken": "J6nJk8Q30PaQwyvn4OF4oOezabX61kra1cf794342ff14c39705aa17584f
81650YmAxWf4vkrV2ZK2Gcr_-kzjJ7a_fRRCeQtXd547VoWnmbJ2txpX6Kj_SywpVdS4c4sMrIn2aFir1
```


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```
nmTu--k_a9NDyykODaR2O3n-PP_k84qacwjb-XXXXXXXXXXXXXXXXXXXXXXXXX"
}
}
```

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.CosPropertiesError	Errors occurred while acquiring uploaded configuration information.
FailedOperation.MigrationLockError	Locking the backup import task failed.
InternalError.DBError	Database error
InternalError.StsError	Errors occurred while acquiring temporary keys.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.

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InvalidParameterValue.CosPathError	Wrong upload path.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
UnauthorizedOperation.PermissionDenied	CAM authentication error.
UnsupportedOperation.UploadTypeError	A wrong upload type.

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DescribeIncrementalMigration

Last updated：2023-09-18 11:41:51

1. API Description

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

This API is used to query an incremental backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeIncrementalMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API CreateBackupMigration
InstanceId	Yes	String	ID of imported target instance
BackupFileName	No	String	Backup file name
StatusSet.N	No	Array of Integer	Status set of import tasks

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Limit	No	Integer	The maximum number of results returned per page. Default value: `100` .
Offset	No	Integer	Page number. Default value: `0` .
OrderBy	No	String	Sort by field. Valid values: `name` , `createTime` , `startTime` , `endTime` . By default, the results returned are sorted by `createTime` in the ascending order.
OrderByType	No	String	Sorting order which is valid only when `OrderBy` is specified. Valid values: `asc` (ascending), `desc` (descending). Default value: `asc` .
IncrementalMigrationId	No	String	Incremental backup import task ID, which is returned through the `CreateIncrementalMigration` API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of import tasks
IncrementalMigrationSet	Array of Migration	Incremental import task set
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying incremental backup import tasks

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeIncrementalMigration
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&BackupFileName=cvm
&Limit=100
&Offset=0
&OrderBy=createTime
&OrderByType=desc
```

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```
&IncrementalMigrationId=mssql-incremental-migration-kp7bgv8p
&StatusSet.0=2
&InstanceId=mssql-rdc0gajn
&<Common request parameters>
```

Output Example


```
{
"Response": {
"IncrementalMigrationSet": [
{
"Action": {
"AllAction": [
"start",
"delete",
"incremental",
"modify",
"view",
"upload"
],
"AllowedAction": [
"view",
"modify",
"delete",
"upload",
"start"
]
},
"AppId": 251006279,
"BackupFiles": [
"db_cvm_1_20200927204209_2log2_2noreconvery2.bak"
],
"CreateTime": "2020-09-27 20:44:59",
"Detail": {
"Progress": 0,
"StepAll": 0,
"StepInfo": [],
"StepNow": 0
},
"EndTime": "0000-00-00 00:00:00",
"InstanceId": "mssql-rdc0gajn",
"IsRecovery": "NO",
"Message": "",
"MigrationId": "mssql-incremental-migration-kp7bgv8p",
"MigrationName": "",
"RecoveryType": "FULL_LOG",
```


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```
"Region": "ap-guangzhou",
"StartTime": "0000-00-00 00:00:00",
"Status": 2,
"UploadType": "COS_UPLOAD"
}
],
"RequestId": "6dc136cb-e2e8-42b7-babc-2fc3b6f50d3d",
"TotalCount": 1
}
}
```


5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.

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UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeBackupUploadSize

Last updated：2023-09-18 11:41:51

1. API Description

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

This API is used to query the size of uploaded backup files. It is valid if the backup file type is `COS_UPLOAD` (the file is stored in COS).

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: DescribeBackupUploadSize.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API CreateBackupMigration
IncrementalMigrationId	No	String	Incremental import task ID

3. Output Parameters

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Parameter Name	Type	Description
CosUploadBackupFileSet	Array of CosUploadBackupFile	Information of uploaded backups
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 uploaded full backup files

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeBackupUploadSize
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-kpl74n9l
&<common request parameters>
```

Output Example

```
{
"Response": {
"CosUploadBackupFileSet": [
{
"FileName": "db1.bak",
"Size": 172032
}
],
"RequestId": "15455085-fe18-4c19-a463-5494451fb0f0"
}
}
```

Example2 Querying the list of uploaded incremental backup files

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeBackupUploadSize
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IncrementalMigrationId=mssql-incremental-migration-kp7bgv8p
&<common request parameters>
```

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Output Example

```
{
"Response": {
"CosUploadBackupFileSet": [
{
"FileName": "db_cvm_1_20200927204209_2log2_2noreconvery2.bak",
"Size": 28672
},
{
"FileName": "db_cvm_3_20200927204219_2log2_2noreconvery2.bak",
"Size": 40960
}
],
"RequestId": "08218621-158d-49df-8366-dfa7958a1ffd"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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Error Code	Description
InternalError.CosError	COS API error.
InternalError.DBError	Database error
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.CosPathError	Wrong upload path.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceNotFound.IncreBackupMigrationNotExist	The incremental backup import task does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeBackupMigration

Last updated：2023-09-18 11:41:51

1. API Description

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

This API is used to create an incremental backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBackupMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
BackupMigrationId	No	String	Backup import task ID, which is returned through the API CreateBackupMigration.
MigrationName	No	String	Import task name
BackupFileName	No	String	Backup file name
StatusSet.N	No	Array of	Status set of import tasks

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		Integer	
RecoveryType	No	String	Import task restoration type: FULL,FULL_LOG,FULL_DIFF
UploadType	No	String	COS_URL: the backup is stored in user's Cloud Object Storage, with URL provided. COS_UPLOAD: the backup is stored in the application's Cloud Object Storage and needs to be uploaded by the user.
Limit	No	Integer	The maximum number of results returned per page. Default value: `100` .
Offset	No	Integer	Page number. Default value: `0` .
OrderBy	No	String	Sort by field. Valid values: `name` , `createTime` , `startTime` , `endTime` . By default, the results returned are sorted by `createTime` in the ascending order.
OrderByType	No	String	Sorting order which is valid only when `OrderBy` is specified. Valid values: `asc` (ascending), `desc` (descending). Default value: `asc` .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of tasks
BackupMigrationSet	Array of Migration	Migration task set
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a full backup import task

Input Example

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

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

{
"BackupMigrationId": "mssql-backup-migration-kpl74n9l",
"OrderBy": "createTime",
"MigrationName": "character string",
"UploadType": "COS_UPLOAD",
"Offset": "0",
"StatusSet": [
"2"
],
"InstanceId": "mssql-rdc0gajn",
"Limit": "100",
"OrderByType": "desc",
"BackupFileName": "db1",
"RecoveryType": "FULL"
}
```

Output Example

```
{
"Response": {
"BackupMigrationSet": [
{
"Action": {
"AllAction": [
"start",
"delete",
"incremental",
"modify",
"view",
"upload"
],
"AllowedAction": [
"view",
"modify",
"delete",
"upload",
"start"
]
},
"AppId": 251006279,
"BackupFiles": [
"db1.bak"
```

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```
],
"CreateTime": "2020-09-27 16:23:47",
"Detail": {
"Progress": 0,
"StepAll": 0,
"StepInfo": [],
"StepNow": 0
},
"EndTime": "0000-00-00 00:00:00",
"InstanceId": "mssql-rdc0gajn",
"IsRecovery": "",
"Message": "",
"MigrationId": "mssql-backup-migration-kpl74n9l",
"MigrationName": "character string",
"RecoveryType": "FULL",
"Region": "ap-guangzhou",
"StartTime": "0000-00-00 00:00:00",
"Status": 2,
"DBRename": [
{
"NewName": "newdb",
"OldName": "olddb"
}
],
"UploadType": "COS_UPLOAD"
}
],
"RequestId": "cf4b1509-8029-4daf-b7b1-e504ff82cbba",
"TotalCount": 1
}
}
```


5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeBackupCommand

Last updated：2023-09-18 11:41:51

1. API Description

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

This API is used to query the commands of creating backups canonically.

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: DescribeBackupCommand.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
BackupFileType	Yes	String	Backup file type. Full: full backup. FULL_LOG: full backup which needs log increments. FULL_DIFF: full backup which needs differential increments. LOG: log backup. DIFF: differential backup.
DataBaseName	Yes	String	Database name
IsRecovery	Yes	String	Whether restoration is required. No: not required. Yes: required.
LocalPath	No	String	Storage path of backup files. If this parameter is left empty, the default storage path will be D:\.

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3. Output Parameters

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

4. Example

Example1 Querying the command of creating a full backup

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeBackupCommand
&BackupFileType=FULL
&DataBaseName=db1
&IsRecovery=YES
&LocalPath=E:/
&<common request parameters>
```

Output Example

```
{
"Response": {
"Command": "BACKUP DATABASE db1 TO DISK='E:/db1.bak' WITH INIT",
"RequestId": "1de3aea3-5fef-4891-b8b0-faeb4e3b5543"
}
}
```

Example2 Querying the command of creating a full backup and an incremental transaction log backup

This example shows you how to query the command to create a full backup and an incremental transaction log backup when you need to import the incremental transaction log backup. The full backup created does not need to be restored.
\\n in the command means a line feed.

Input Example

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```
https://sqlserver.tencentcloudapi.com/?Action=DescribeBackupCommand
&BackupFileType=FULL_LOG
&DataBaseName=db1
&IsRecovery=NO
&LocalPath=E:/
&<common request parameters>
```

Output Example

```
{
"Response": {
"Command": "declare @dbname varchar(100)\\\\ndeclare @localtime varchar(20)\\\\nd
eclare @str varchar(8000)\\\\nset @dbname='db1'\\\\nset @localtime =replace(repla
ce(replace(CONVERT(varchar, getdate(), 120 ),'-',''),' ',''),':','')\\\\nset @str
='BACKUP DATABASE [' + @dbname + '] TO DISK = N''E:/' + @dbname + '_' + @localtim
e + '_2full2_2noreconvery2.bak'' WITH INIT'\\\\nexec(@str)\\\\ngo",
"RequestId": "03199d88-9dda-49eb-a045-7c69eb4d3591"
}
}
```

Example3 Querying the command of creating an incremental transaction log backup

This example shows you how to query the command to create an incremental transaction log backup when you need to import it. The incremental transaction log backup created needs to be restored.
\\n in the command means a line feed.

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeBackupCommand
&BackupFileType=LOG
&DataBaseName=db1
&IsRecovery=YES
&LocalPath=E:/
&<common request parameters>
```

Output Example

```
{
"Response": {
"Command": "declare @dbname varchar(100)\\\\ndeclare @localtime varchar(20)\\\\nd
eclare @str varchar(8000)\\\\nset @dbname='db1'\\\\nset @localtime =replace(repla
ce(replace(CONVERT(varchar, getdate(), 120 ),'-',''),' ',''),':','')\\\\nset @str
='BACKUP LOG [' + @dbname + '] TO DISK = N''E:/' + @dbname + '_' + @localtime +
```

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```
'_2log2_2reconvery2.bak'' WITH FORMAT, INIT'\\\\nexec(@str)\\\\ngo",
"RequestId": "8d53700f-b80b-415a-8738-0c340eff2057"
}
}
```

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
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DeleteIncrementalMigration

Last updated：2023-09-18 11:41:52

1. API Description

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

This API is used to delete an incremental backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteIncrementalMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Target instance ID.
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the `CreateBackupMigration` API
IncrementalMigrationId	Yes	String	Incremental backup import task ID, which is returned through the `CreateIncrementalMigration` API

3. Output Parameters

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

4. Example

Example1 Deleting an incremental backup import task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DeleteIncrementalMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IncrementalMigrationId=mssql-incremental-migration-67q4wy87
&<common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6ed62412-c476-4714-8042-241f50b2aedf"
}
}
```

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.MigrationLockError	Locking the backup import task failed.
InternalError.DBError	Database error
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.IncreBackupMigrationNotExist	The incremental backup import task does not exist.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DeleteBackupMigration

Last updated：2023-09-18 11:41:52

1. API Description

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

This API is used to delete a backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteBackupMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Target instance ID, which is returned through the API DescribeBackupMigration.
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API DescribeBackupMigration.

3. Output Parameters

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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 full backup import task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DeleteBackupMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&<common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "f0c186aa-b171-4a96-b176-b8e8ff23994d"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.MigrationLockError	Locking the backup import task failed.
InternalError.DBError	Database error
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateIncrementalMigration

Last updated：2023-09-18 11:41:52

1. API Description

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

This API is used to create an incremental backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateIncrementalMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
BackupMigrationId	Yes	String	Backup import task ID, which is returned through the API CreateBackupMigration.
BackupFiles.N	No	Array of String	Incremental backup file. If the UploadType of a full backup file is COS_URL, fill in URL here. If the UploadType is COS_UPLOAD, fill in the name of the backup file here. Only 1 backup file is supported, but a backup file can involve multiple databases.
IsRecovery	No	String	Whether restoration is required. No: not required. Yes: required.

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			Not required by default.

3. Output Parameters

Parameter Name	Type	Description
IncrementalMigrationId	String	ID of an incremental backup import task
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an incremental migration task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=CreateIncrementalMigration
&InstanceId=mssql-rdc0gajn
&BackupMigrationId=mssql-backup-migration-cg0ffgqt
&IsRecovery=NO
&BackupFiles.0=db_cvm_1_20200927204209_2log2_2noreconvery2.bak
&<common request parameters>
```

Output Example

```
{
"Response": {
"IncrementalMigrationId": "mssql-incremental-migration-kp7bgv8p",
"RequestId": "1e3d890b-1ff7-44ba-808d-633f11c873d8"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.MigrationLockError	Locking the backup import task failed.
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
ResourceInUse.IncrementalMigrationExist	An incremental backup import task to be started already exists.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceUnavailable.BackupMigrationRecoveryTypeErr	The restoration type does not support incremental backup import.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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CreateBackupMigration

Last updated：2023-09-18 11:41:53

1. API Description

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

This API is used to create a backup import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateBackupMigration.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	ID of imported target instance
RecoveryType	Yes	String	Migration task restoration type. FULL: full backup restoration, FULL_LOG: full backup and transaction log restoration, FULL_DIFF: full backup and differential backup restoration
UploadType	Yes	String	Backup upload type. COS_URL: the backup is stored in user's Cloud Object Storage, with URL provided. COS_UPLOAD: the backup is stored in the application's Cloud Object Storage and needs to be uploaded by the user.

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MigrationName	Yes	String	Task name
BackupFiles.N	No	Array of String	If the UploadType is COS_URL, fill in the URL here. If the UploadType is COS_UPLOAD, fill in the name of the backup file here. Only 1 backup file is supported, but a backup file can involve multiple databases.

3. Output Parameters

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

4. Example

Example1 Creating a backup file import task

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=CreateBackupMigration
&InstanceId=mssql-rdc0gajn
&RecoveryType=FULL
&UploadType=COS_UPLOAD
&MigrationName=character string
&BackupFiles.0=db1.bak
&<common request parameters>
```

Output Example

```
{
"Response": {
"BackupMigrationId": "mssql-backup-migration-cg0ffgqt",
"RequestId": "4e2f2093-9cde-44ec-b64b-edfcc2f911d4"
}
}
```

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5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
InvalidParameterValue.MigrationNameIsIllegal	The migration name contains invalid characters.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeBackupFiles

Last updated：2023-09-18 11:41:51

1. API Description

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

This API is used to query the details of an unarchived backup.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBackupFiles.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-njj2mtpl
GroupId	Yes	String	Group ID of unarchived backup files, which can be obtained by the `DescribeBackups` API (Querying archived backup record is not supported).
Limit	No	Integer	Number of entries to be returned per page. Value range: 1-100. Default value: `20`
Offset	No	Integer	Page number. Default value: `0`

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DatabaseName	No	String	Filter backups by database name. If the parameter is left empty, this filter criterion will not take effect.
OrderBy	No	String	List items sorting by backup size. Valid values: `desc` (descending order), `asc` (ascending order). Default value: `desc` .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of backups
BackupFiles	Array of BackupFile	List of backup file details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 u200cQuerying the details of an unarchived backup.

u200cThis example shows you how to query the details of an unarchived backup.

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeBackupFiles
&Limit=20
&Offset=0
&InstanceId=mssql-mz23h8n7
&GroupId=241259
&<Common request parameters>
```

Output Example

```
{
"Response": {
"BackupFiles": [
{
```

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```
"CrossBackupAddr": [
{
"CrossExternalAddr": "https://sqlserver-bucket-sg-1258415541.cos.ap-singapore.myq
cloud.com/1251966477%2fsqlserver%2fmssql-mz23h8n7%2fbackup%2fmanual_specific_5800
2_db2_2021_09_14144312.bak?sign=q-sign-algorithm%3dsha1%26q-ak%3dAKIDrRloa5Zdk580
Xo9dCWaNE3kU3MQElsiV%26q-sign-time%3d1631605556%3b1631606456%26q-key-time%3d16316
05556%3b1631606456%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3df977b
8f1afee59225e41a9e766b035953ef9527c",
"CrossInternalAddr": "https://sqlserver-bucket-sg-1258415541.cos.ap-singapore.myq
cloud.com/1251966477%2fsqlserver%2fmssql-mz23h8n7%2fbackup%2fmanual_specific_5800
2_db2_2021_09_14144312.bak?sign=q-sign-algorithm%3dsha1%26q-ak%3dAKIDrRloa5Zdk580
Xo9dCWaNE3kU3MQElsiV%26q-sign-time%3d1631605556%3b1631606456%26q-key-time%3d16316
05556%3b1631606456%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3df977b
8f1afee59225e41a9e766b035953ef9527c",
"CrossRegion": "ap-singapore"
}
],
"Region": "ap-singapore",
"DBs": [
"db1"
],
"DownloadLink": "https://sqlserver-bucket-sg-1258415541.cos.ap-singapore.myqclou
d.com/1251966477%2fsqlserver%2fmssql-mz23h8n7%2fbackup%2fmanual_specific_58002_db
1_2021_09_14144312.bak?sign=q-sign-algorithm%3dsha1%26q-ak%3dAKIDrRloa5Zdk580Xo9d
CWaNE3kU3MQElsiV%26q-sign-time%3d1631605556%3b1631606456%26q-key-time%3d163160555
6%3b1631606456%26q-header-list%3d%26q-url-param-list%3d%26q-signature%3de5e61bfbc
cf44f6c3dd8a710296108dc95ba16db",
"FileName": "manual_specific_58002_db1_2021_09_14144312.bak",
"Id": 36074,
"Size": 184
}
],
"RequestId": "cb2fb9fa-152f-11ec-ac75-525400542aa6",
"TotalCount": 2
}
}
```


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
InternalError	Internal error.
InternalError.CosError	COS API error.
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InvalidParameter	Invalid parameter.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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Extended Event APIs
DescribeXEvents

Last updated：2023-09-18 11:41:48

1. API Description

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

This API is used to query the list of extended events.

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: DescribeXEvents.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
EventType	Yes	String	Event type. Valid values: `slow` (Slow SQL event), `blocked` (blocking event), deadlock` (deadlock event).
StartTime	Yes	String	Generation start time of an extended file in the format of yyyy-MM-dd HH:mm:ss.
EndTime	Yes	String	Generation end time of an extended file in the format of yyyy-MM-dd

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			HH:mm:ss.
Offset	No	Integer	Page number. Default value: `0`
Limit	No	Integer	Number of entries to be returned per page. Value range: 1-100. Default value: `20`

3. Output Parameters

Parameter Name	Type	Description
Events	Array of Events	List of extended events
TotalCount	Integer	Total number of extended events
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 DescribeXEvents

This example shows you how to query the record of an extended event for an instance, including slow SQL, blocking, and deadlock.

Input Example

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

{
"Offset": 0,
"Limit": 2,
"StartTime": "2023-03-05 11:49:08",
"EndTime": "2023-03-13 11:49:08",
"EventType": "slow",
"InstanceId": "mssql-qp7gu6ch"
}
```

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Output Example


```
{
"Response": {
"RequestId": "023a2da2-c152-11ed-b1aa-525400853186",
"TotalCount": 10,
"Events": [
{
"EndTime": "2023-03-10 15:45:05",
"EventType": "slow",
"ExternalAddr": "https://***",
"FileName": "autoed_instance_58001_20230220110419.xel",
"Id": 1004,
"InternalAddr": "https:***",
"Size": 10240,
"StartTime": "2023-03-10 15:44:15",
"Status": 1
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
FailedOperation.CosError	Failed to access COS.
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.ParamsNotFound	Parameter not found.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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StartInstanceXEvent

Last updated：2023-09-18 11:41:48

1. API Description

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

This API is used to start and stop an extended event.

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: StartInstanceXEvent.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
EventConfig.N	Yes	Array of EventConfig	Whether to start or stop an extended event

3. Output Parameters

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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 StartInstanceXEvent

This example shows you how to start and stop an extended event.

Input Example

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

{
"InstanceId": "mssql-77auaua",
"EventConfig": [
{
"EventType": "slow",
"Threshold": 0
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "AH7AAJ_909AA_AAAQ_2134343"
}
}
```

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.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.ParamsNotFound	Parameter not found.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.

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Other APIs
DescribeInstanceByOrders

Last updated：2023-09-18 11:41:39

1. API Description

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

This API is used to query the instance ID by the order number.

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: DescribeInstanceByOrders.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DealNames.N	Yes	Array of String	Order ID set

3. Output Parameters

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

4. Example

Example1 Querying the instance ID by the order number

u200cu200cThis example shows you how to query the instance ID by the order number.

Input Example

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

{
"DealNames": [
"20230101891871652726 2"
]
}
```

Output Example

```
{
"Response": {
"DealInstance": [
{
"InstanceId": [
"mssql-8a9iajua"
],
"DealName": "20230101891871652726 2"
}
],
"RequestId": "5481552e-2127-11ee-92b8-525400853186"
}
}
```

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5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.DBError	Database error.
InvalidParameter.InputIllegal	Input error.
ResourceNotFound.ParamsNotFound	Parameter not found.

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DescribeOrders

Last updated：2023-09-18 11:41:39

1. API Description

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

This API is used to query order information.

A maximum of 10 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: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
DealNames.N	Yes	Array of String	Order array. The order name will be returned upon shipping, which can be used to call the `DescribeOrders` API to query shipment status

3. Output Parameters

Parameter Name	Type	Description

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Deals	Array of DealInfo	Order information array
TotalCount	Integer	Number of orders returned
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying orders

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeOrders
&DealNames.0=201806271245
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3",
"TotalCount": 10,
"Deals": [
{
"DealName": "201806271765",
"OwnerUin": "3374998458",
"Count": 1,
"FlowId": 3456,
"InstanceIdSet": [
"mssql-k8vodfsw"
],
"InstanceChargeType": "POST"
}
]
}
}
```

5. Developer Resources

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SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.QueryOrderFailed	Failed to query order.
InternalError.DBError	Database error
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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DescribeSlowlogs

Last updated：2023-09-18 11:41:39

1. API Description

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

This API is used to get file information 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: DescribeSlowlogs.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-k8voqdlz
StartTime	Yes	Timestamp	Start time in the format of `yyyy-MM-dd HH:mm:ss`
EndTime	Yes	Timestamp	End time in the format of `yyyy-MM-dd HH:mm:ss`
Limit	No	Integer	Number of results per page. Value range: 1-100. Default value: 20
Offset	No	Integer	Page number. Default value: 0

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3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of queries
Slowlogs	Array of SlowlogInfo	Information list of slow query logs
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting slow logs

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=DescribeSlowlogs
&InstanceId=mssql-9aajrcn7
&StartTime=2018-03-28 00:00:00
&EndTime=2020-11-20 00:00:00
&Limit=20
&Offset=0
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "3e166da0-1f64-11eb-98ec-533fb32c3b2c",
"Slowlogs": [
{
"Count": 5,
"EndTime": "2020-11-05 20:17:14",
"ExternalAddr": "https://sqlserver-bucket-gz-1258415541.cos.ap-guangzhou.myqclou
d.com/1251966477%2fsqlserver%2fmssql-9aajrcn7%2fslow%2fTRACE_20201105201000.trc?s
ign=q-sign-algorithm%3dsha1%26q-ak%3dAKIDrRloa5Zdk580Xo9dCWaNE3kU3MQElsiV%26q-sig
n-time%3d1604580096%3b1604580996%26q-key-time%3d1604580096%3b1604580996%26q-heade
r-list%3d%26q-url-param-list%3d%26q-signature%3d583b4db2ec94fa10e55da9b95e1e3d894
3eaa386",
"Id": 30304577,
```

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```
"InternalAddr": "https://sqlserver-bucket-gz-1258415541.cos.ap-guangzhou.myqclou
d.com/1251966477%2fsqlserver%2fmssql-9aajrcn7%2fslow%2fTRACE_20201105201000.trc?s
ign=q-sign-algorithm%3dsha1%26q-ak%3dAKIDrRloa5Zdk580Xo9dCWaNE3kU3MQElsiV%26q-sig
n-time%3d1604580096%3b1604580996%26q-key-time%3d1604580096%3b1604580996%26q-heade
r-list%3d%26q-url-param-list%3d%26q-signature%3d583b4db2ec94fa10e55da9b95e1e3d894
3eaa386",
"Size": 1024,
"StartTime": "2020-11-05 20:10:05",
"Status": 1
}
],
"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 Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description

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FailedOperation.GcsError	The operation failed or the network timed out.
InternalError.CosError	COS API error.
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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ModifyAccountRemark

Last updated：2023-09-18 11:41:39

1. API Description

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

This API is used to modify account remarks.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyAccountRemark.
Version	Yes	String	Common Params. The value used for this API: 2018-03-28.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID in the format of mssql-j8kv137v
Accounts.N	Yes	Array of AccountRemark	Information of account for which to modify remarks

3. Output Parameters

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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 account remarks

Input Example

```
https://sqlserver.tencentcloudapi.com/?Action=ModifyAccountRemark
&InstanceId=mssql-j8kv137v
&Accounts.0.UserName=test
&Accounts.0.Remark=testRemark
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "4be5990d-a4b5-49dc-b2b4-e713b6aa7ba3"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError.DBError	Database error
InternalError.SystemError	System error.
InvalidParameter.InputIllegal	Input error.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameterValue.AccountRemarkIsIllegal	The account remarks are invalid.
InvalidParameterValue.DBCharIllegal	The database name contains invalid characters.
ResourceNotFound.AccountNotExist	The account does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication error.

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Data Types

Last updated：2024-07-08 20:31:11

AccountCreateInfo

Account creation information

Used by actions: CreateAccount.

Name	Type	Required	Description
UserName	String	Yes	Instance username
Password	String	Yes	Instance password
DBPrivileges	Array of DBPrivilege	No	List of database permissions
Remark	String	No	Account remarks
IsAdmin	Boolean	No	Whether it is an admin account. Valid values: `true` (Yes. It is an admin account when the instance is a basic edition type and `AccountType` is `L0` ; it is a privileged account when the instance is a dual-server high availability edition type and `AccountType` is `L1` .), `false` (No. It is a standard account when `AccountType` is `L3` .)
Authentication	String	No	Valid values: `win-windows authentication` , `sql-sqlserver authentication` . Default value: `sql-sqlserver authentication`
AccountType	String	No	Account type, which is an extension field of `IsAdmin` . Valid values: `L0` (admin account, only for basic edition), `L1` (privileged account), `L2` (designated account), `L3` (standard account, default)

AccountDetail

Account details

Used by actions: DescribeAccounts.

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Name	Type	Description
Name	String	Account name
Remark	String	Account remarks
CreateTime	Timestamp	Account creation time
Status	Integer	Account status. 1: creating, 2: normal, 3: modifying, 4: resetting password, -1: deleting
UpdateTime	Timestamp	Account update time
PassTime	Timestamp	Password update time
InternalStatus	String	Internal account status, which should be `enable` normally
Dbs	Array of DBPrivilege	Information of read and write permissions of this account on relevant databases
IsAdmin	Boolean	Whether it is an admin account
Authentication	String	Valid values: `win-windows authentication`, `sql-sqlserver authentication`.
Host	String	The host required for `win-windows authentication` account
AccountType	String	Account type. Valid values: `L0` (admin account, only for basic edition), `L1` (privileged account), `L2` (designated account), `L3` (standard account).

AccountPassword

Instance account password information

Used by actions: ResetAccountPassword.

Name	Type	Required	Description
UserName	String	Yes	Username
Password	String	Yes	Password

AccountPrivilege

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Database account permission information, which is set when the database is created

Used by actions: CreateDB, DescribeDBs.

Name	Type	Required	Description
UserName	String	Yes	Database username
Privilege	String	Yes	Database permission. Valid values: `ReadWrite` (read-write), `ReadOnly` (read-only), `Delete` (delete the database permissions of this account), `DBOwner` (owner).
AccountType	String	No	Account name. Valid values: `L0` (admin account, only for basic edition), `L1` (privileged account), `L2` (designated account), `L3` (standard account).

AccountPrivilegeModifyInfo

Database account permission change information

Used by actions: ModifyAccountPrivilege.

Name	Type	Required	Description
UserName	String	Yes	Database username
DBPrivileges	Array of DBPrivilegeModifyInfo	Yes	Account permission change information
IsAdmin	Boolean	No	Whether it is an instance admin account. Valid values: `true` (Yes. When the instance is single-node and `AccountType` is `L0` , it's an admin account; when the instance is two-node and `AccountType` is `L1` , it's a privileged account), `false` (No. It's a standard account and `AccountType` is `L3`).
AccountType	String	No	Account type, which is an extension field of `IsAdmin` . Valid values: `L0` (admin account, only for basic edition), `L1` (privileged account), `L2` (designated account), `L3` (standard account, default)

AccountRemark

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Account remarks

Used by actions: ModifyAccountRemark.

Name	Type	Description
UserName	String	Account name
Remark	String	New remarks of account

Backup

Backup file details

Used by actions: DescribeBackups.

Name	Type	Description
FileName	String	File name. The name of an unarchived backup file is returned by the `DescribeBackupFiles` API instead of this parameter.
Size	Integer	File size in KB. The size of an unarchived backup file is returned by the `DescribeBackupFiles` API instead of this parameter.
StartTime	Timestamp	Backup start time
EndTime	Timestamp	Backup end time
InternalAddr	String	Private network download address. The download address of an unarchived backup file is returned by the `DescribeBackupFiles` API instead of this parameter.
ExternalAddr	String	Public network download address. The download address of an unarchived backup file is returned by the `DescribeBackupFiles` API instead of this parameter.
Id	Integer	Unique ID of a backup file, which is used by the `RestoreInstance` API. The unique ID of an unarchived backup file is returned by the `DescribeBackupFiles` API instead of this parameter.
Status	Integer	Backup file status (0: creating, 1: succeeded, 2: failed)
DBs	Array of String	List of databases for multi-database backup

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Strategy	Integer	Backup policy (0: instance backup, 1: multi-database backup)
BackupWay	Integer	Backup Mode. Valid values: `0` (scheduled backup); `1` (manual backup); `2` (archive backup).
BackupName	String	Backup task name (customizable)
GroupId	String	Group ID of unarchived backup files, which can be used as a request parameter in the `DescribeBackupFiles` API to get details of unarchived backup files in the specified group. This parameter is invalid for archived backup files.
BackupFormat	String	Backup file format. Valid values: `pkg` (archive file), `single` (unarchived files).
Region	String	The code of current region where the instance resides
CrossBackupAddr	Array of CrossBackupAddr	The download address of cross-region backup in target region
CrossBackupStatus	Array of CrossRegionStatus	The target region and status of cross-region backup

BackupFile

If the backup files are unarchived, each database corresponds to one backup file.

Used by actions: DescribeBackupFiles.

Name	Type	Description
Id	Integer	Unique ID of a backup file
FileName	String	Backup file name
Size	Integer	File size in KB
DBs	Array of String	Name of the database corresponding to the backup file
DownloadLink	String	Download address
Region	String	The code of the region where current instance resides
CrossBackupAddr	Array of CrossBackupAddr	The target region and download address of cross-region backup

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BusinessIntelligenceFile

Business intelligence service file type

Used by actions: DescribeBusinessIntelligenceFile.

Name	Type	Description
FileName	String	File name
FileType	String	File type
FileURL	String	File COS_URL
FilePath	String	The file path on the server
FileSize	Integer	File size in bytes
FileMd5	String	File MD5 value
Status	Integer	File deployment status. Valid values: `1` (Initialize to be deployed), `2` (Deploying), `3` (Deployment successful), `4` (Deployment failed).
Remark	String	Remarks
CreateTime	String	File creation time
StartTime	String	Start time of file deployment
EndTime	String	End time of file deployment
Message	String	Returned error message
InstanceId	String	Business intelligence instance ID
Action	FileAction	Operation information

CosUploadBackupFile

Querying the size of uploaded backup files.

Used by actions: DescribeBackupUploadSize.

Name	Type	Description
FileName	String	Backup name

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Size	Integer	Backup size

CrossBackupAddr

All Download addresses of cross-region backup

Used by actions: DescribeBackupFiles, DescribeBackups.

Name	Type	Description
CrossRegion	String	The target region of cross-region backup
CrossInternalAddr	String	The address used to download the cross-region backup over a private network
CrossExternalAddr	String	The address used to download the cross-region backup over a public network

CrossRegionStatus

The target region and status of cross-region backup

Used by actions: DescribeBackups.

Name	Type	Description
CrossRegion	String	The target region of cross-region backup
CrossStatus	Integer	Synchronization status of cross-region backup. Valid values: `0` (creating), `1` (succeeded), `2` : (failed), `4` (syncing)

DBCreateInfo

Database creation information

Used by actions: CreateDB.

Name	Type	Required	Description
DBName	String	Yes	Database name
Charset	String	No	Character set, which can be queried by the `DescribeDBCharsets` API. Default value:

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			`Chinese_PRC_CI_AS` .
Accounts	Array of AccountPrivilege	No	Database account permission information
Remark	String	No	Remarks

DBDetail

Database information

Used by actions: DescribeDBs.

Name	Type	Description
Name	String	Database name
Charset	String	Character set
Remark	String	Remarks
CreateTime	Timestamp	Database creation time
Status	Integer	Database status. 1: creating, 2: running, 3: modifying, -1: dropping
Accounts	Array of AccountPrivilege	Database account permission information
InternalStatus	String	Internal status. ONLINE: running
Encryption	String	TDE status. Valid values: `enable` (enabled), `disable` (disabled).

DBInstance

Instance details

Used by actions: DescribeDBInstances.

Name	Type	Description
InstanceId	String	Instance ID
Name	String	Instance name

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ProjectId	Integer	Project ID of instance
RegionId	Integer	Instance region ID
ZoneId	Integer	Instance AZ ID
VpcId	Integer	Instance VPC ID, which will be 0 if the basic network is used
SubnetId	Integer	Instance VPC subnet ID, which will be 0 if the basic network is used
Status	Integer	Instance status. Valid values: • 1: creating • 2: running • 3: instance operations restricted (due to the ongoing primary-replica switch) • 4: isolated • 5: repossessing • 6: repossessed • 7: running tasks (such as backup and rollback tasks) • 8: eliminated • 9: expanding capacity • 10: migrating • 11: read-only • 12: restarting • 13: modifying configuration and waiting for switch • 14: implementing pub/sub • 15: modifying pub/sub configuration • 16: modifying configuration and switching • 17: creating read-only instances
Vip	String	Instance access IP
Vport	Integer	Instance access port
CreateTime	Timestamp	Instance creation time
UpdateTime	Timestamp	Instance update time
StartTime	Timestamp	Instance billing start time
EndTime	Timestamp	Instance billing end time
IsolateTime	Timestamp	Instance isolation time
Memory	Integer	Instance memory size in GB
UsedStorage	Integer	Used storage capacity of instance in GB

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Storage	Integer	Instance storage capacity in GB
VersionName	String	Instance version
RenewFlag	Integer	Instance renewal flag
Model	Integer	High-availability instance type. Valid values: 1 (dual-server high-availability), 2 (standalone), 3 (multi-AZ), 4 (multi-AZ cluster), 5 (cluster), 9 (private consumption)
Region	String	Instance region name, such as ap-guangzhou
Zone	String	Instance AZ name, such as ap-guangzhou-1
BackupTime	String	Backup time point
PayMode	Integer	Instance billing mode. 0: pay-as-you-go
Uid	String	Instance UID
Cpu	Integer	Number of CPU cores of instance
Version	String	Instance version code
Type	String	Instance type. Valid values: `TS85` (physical machine, local SSD), `Z3` (early version of physical machine, local SSD), `CLOUD_BASIC` (virtual machine, HDD cloud disk), `CLOUD_PREMIUM` (virtual machine, premium cloud disk), `CLOUD_SSD` (virtual machine, SSD), `CLOUD_HSSD` (virtual machine, enhanced SSD), `CLOUD_TSSD` (virtual machine, ulTra SSD), `CLOUD_BSSD` virtual machine, balanced SSD).
Pid	Integer	Billing ID
UniqVpcId	String	Unique string-type ID of instance VPC in the format of `vpc-xxx` , which is an empty string if the basic network is used
UniqSubnetId	String	Unique string-type ID of instance subnet in the format of `subnet-xxx` , which is an empty string if the basic network is used
IsolateOperator	String	Instance isolation. Note: this field may return null, indicating that no valid values can be obtained.
SubFlag	String	Pub/sub flag. Valid values: SUB (subscribe instance), PUB (publish instance). If it is left empty, it refers to a regular instance

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		without a pub/sub design. Note: this field may return null, indicating that no valid values can be obtained.
ROFlag	String	Read-only flag. Valid values: RO (read-only instance), MASTER (primary instance with read-only instances). If it is left empty, it refers to an instance which is not read-only and has no RO group. Note: this field may return null, indicating that no valid values can be obtained.
HAFlag	String	Disaster recovery type. Valid values: MIRROR (image), ALWAYSON (AlwaysOn), SINGLE (singleton). Note: this field may return null, indicating that no valid values can be obtained.
ResourceTags	Array of ResourceTag	The list of tags associated with the instance Note: this field may return `null` , indicating that no valid values can be obtained.
BackupModel	String	Backup mode. Valid values: `master_pkg` (archive the backup files of the primary node (default value)), `master_no_pkg` (do not archive the backup files of the primary node), `slave_pkg` (archive the backup files of the replica node (valid for Always On clusters)), `slave_no_pkg` (do not archive the backup files of the replica node (valid for Always On clusters)). This parameter is invalid for read-only instances. Note: this field may return `null` , indicating that no valid values can be obtained.
InstanceNote	String	Instance backup info Note: This field may return `null` , indicating that no valid values can be obtained.
BackupCycle	Array of Integer	Backup cycle
BackupCycleType	String	Backup cycle type. Valid values: `daily` , `weekly` , `monthly` .
BackupSaveDays	Integer	Data (log) backup retention period
InstanceType	String	Instance type. Valid values: `HA` (high-availability), `RO` (read-only), `SI` (basic edition), `BI` (business intelligence service).
CrossRegions	Array of String	The target region of cross-region backup. If this parameter left empty, it indicates that cross-region backup is disabled.

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CrossBackupEnabled	String	Cross-region backup status. Valid values: `enable` (enabled), `disable` (disabed)
CrossBackupSaveDays	Integer	The retention period of cross-region backup. Default value: 7 days
DnsPodDomain	String	Domain name of the public network address
TgwWanVPort	Integer	Port number of the public network
Collation	String	Collation of system character sets. Default value: `Chinese_PRC_CI_AS` .
TimeZone	String	System time zone. Default value: `China Standard Time` .
IsDrZone	Boolean	Whether the instance is deployed across AZs
SlaveZones	SlaveZones	Replica AZ information Note: This field may return null, indicating that no valid values can be obtained.
Architecture	String	Architecture type. Valid values: `SINGLE` (single-node), `DOUBLE` (two-node). Note: u200dThis field may return null, indicating that no valid values can be obtained.
Style	String	Instance type. Valid values: `EXCLUSIVE` (dedicated), `SHARED` (shared) Note: This field may return null, indicating that no valid values can be obtained.

DBPrivilege

Database permission information of account

Used by actions: CreateAccount, DescribeAccounts.

Name	Type	Required	Description
DBName	String	Yes	Database name
Privilege	String	Yes	Database permissions. Valid values: `ReadWrite` (read-write), `ReadOnly` (read-only), `DBOwner` (owner)

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DBPrivilegeModifyInfo

Database permission change information

Used by actions: ModifyAccountPrivilege.

Name	Type	Required	Description
DBName	String	Yes	Database name
Privilege	String	Yes	Permission modification information. Valid values: `ReadWrite` (read-write), `ReadOnly` (read-only), `Delete` (delete the account's permission to this database), `DBOwner` (owner).

DBRemark

Database remarks

Used by actions: ModifyDBRemark.

Name	Type	Required	Description
Name	String	Yes	Database name
Remark	String	Yes	Remarks

DBRenameRes

Database renaming response parameter

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

Name	Type	Description
NewName	String	Name of the new database
OldName	String	Name of the old database

DBTDEEncrypt

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This example shows you how to enable or disable TDE of a database.

Used by actions: ModifyDBEncryptAttributes.

Name	Type	Required	Description
DBName	String	No	
Encryption	String	No	TDE status. Valid values: `enable` (enabled), `disable` (disabled).

DbNormalDetail

Database configurations

Used by actions: DescribeDBsNormal.

Name	Type	Description
IsSubscribed	String	Whether it is subscribed. Valid values: `0` (no), `1` (yes)
CollationName	String	Database collation
IsAutoCleanupOn	String	Whether the cleanup task is enabled to automatically remove old change tracking information when CT is enabled. Valid values: `0` (no), `1` (yes)
IsBrokerEnabled	String	Whether SQL Server Service Broker is enabled. Valid values: `0` (no), `1` (yes)
IsCdcEnabled	String	Whether CDC is enabled. Valid values: `0` (disabled), `1` (enabled)
IsDbChainingOn	String	Whether CT is enabled. Valid values: `0` (disabled), `1` (enabled)
IsEncrypted	String	Whether it is encrypted. Valid values: `0` (no), `1` (yes)
IsFulltextEnabled	String	Whether full-text indexes are enabled. Valid values: `0` (no), `1` (yes)
IsMirroring	String	Whether it is a mirror database. Valid values: `0` (no), `1` (yes)
IsPublished	String	Whether it is published. Valid values: `0` (no), `1` (yes)
IsReadCommittedSnapshotOn	String	Whether snapshots are enabled. Valid values: `0` (no), `1` (yes)

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IsTrustworthyOn	String	Whether it is trustworthy. Valid values: `0` (no), `1` (yes)
MirroringState	String	Mirroring state
Name	String	Database name
RecoveryModelDesc	String	Recovery model
RetentionPeriod	String	Retention period (in days) of change tracking information
StateDesc	String	Database status
UserAccessDesc	String	User type
CreateTime	String	Database creation time

DbRollbackTimeInfo

Information of time range available for database rollback

Used by actions: DescribeRollbackTime.

Name	Type	Description
DBName	String	Database name
StartTime	Timestamp	Start time of time range available for rollback
EndTime	Timestamp	End time of time range available for rollback

DealInfo

Order information

Used by actions: DescribeOrders.

Name	Type	Description
DealName	String	Order name
Count	Integer	Number of items
FlowId	Integer	ID of associated flow, which can be used to query the flow execution status
InstanceIdSet	Array of	This field is required only for an order that creates an instance, indicating

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	String	the ID of the instance created by the order
OwnerUin	String	Account
InstanceChargeType	String	Instance billing type

DealInstance

List of the resource IDs corresponding to order number

Used by actions: DescribeInstanceByOrders.

Name	Type	Description
InstanceId	Array of String	Instance ID
DealName	String	Order ID

DrReadableInfo

Used by actions: DescribeDBInstancesAttribute.

Name	Type	Description
SlaveStatus	String	
ReadableStatus	String	
Vip	String	
VPort	Integer	
UniqVpcId	String	
UniqSubnetId	String	

EventConfig

Threshold setting for an extended event

Used by actions: StartInstanceXEvent.

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Name	Type	Required	Description
EventType	String	Yes	Event type. Valid values: `slow` (set threshold for slow SQL), `blocked` (set threshold for the blocking and deadlock).
Threshold	Integer	Yes	Threshold in milliseconds. Valid values: `0` (disable), `non-zero` (enable)

Events

Details of an extended event

Used by actions: DescribeXEvents.

Name	Type	Description
Id	Integer	ID
FileName	String	File name of an extended event
Size	Integer	File size of an extended event
EventType	String	Event type. Valid values: `slow` (Slow SQL event), `blocked` (blocking event), `deadlock` (deadlock event).
Status	Integer	Event record status. Valid values: `1` (succeeded), `2` (failed).
StartTime	String	Generation start time of an extended file
EndTime	String	Generation end time of an extended file
InternalAddr	String	Download address on the private network
ExternalAddr	String	Download address on the public network

FileAction

Information of allowed operation

Used by actions: DescribeBusinessIntelligenceFile.

Name	Type	Description
AllAction	Array	Allowed operations. Valid values: `view` (view list), `remark` (modify remark),

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	of String	`deploy` (deploy files), `delete` (delete files).
AllowedAction	Array of String	Operation allowed in the current status. If the subset of `AllAction` is empty, no operations will be allowed.

InstanceDBDetail

Instance database information

Used by actions: DescribeDBs.

Name	Type	Description
InstanceId	String	Instance ID
DBDetails	Array of DBDetail	Database information list

InterInstance

Details of instances in the interwoking group

Used by actions: DescribeDBInstanceInter.

Name	Type	Description
InstanceId	String	Instance ID
InterVip	String	Instance interworking IP, which can be accessed after the instance is added to the interworking group.
InterPort	Integer	Instance interworking port, which can be accessed after the instance is added to the interworking group.
Status	Integer	Instance interworking status. Valid values: `1` (Enabling interworking IP), `2` (Enabled interworking IP), `3` (Adding to interworking group), `4` (Added to interworking group), `5` (Reclaiming interworking IP), `6` (Reclaimed interworking IP), `7` (Removing from interworking group), `8` (Removed from interworking group).
Region	String	Instance region, such as ap-guangzhou.

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Zone	String	Instance AZ name, such as ap-guangzhou-1.
Version	String	Instance version code
VersionName	String	Instance version
Name	String	Instance name
Vip	String	Instance access IP
Vport	Integer	Instance access port

InterInstanceFlow

Instance status after enabling or disabling the interworking group

Used by actions: CloseInterCommunication, OpenInterCommunication.

Name	Type	Description
InstanceId	String	Instance ID, such as mssql-sdf32n1d.
FlowId	Integer	Instance task ID for enabling or disabling the interworking group. When `FlowId` is less than 0, the interworking group will be enabled or disabled successfully; otherwise, the operation failed.

MigrateDB

List of databases to be migrated

Used by actions: CreateMigration, DescribeMigrationDetail, ModifyMigration.

Name	Type	Required	Description
DBName	String	No	Name of migrated database

MigrateDetail

Migration progress details

Used by actions: DescribeMigrations.

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Name	Type	Description
StepName	String	Name of current step
Progress	Integer	Progress of current step in %

MigrateSource

Source type of migration task

Used by actions: CreateMigration, DescribeMigrationDetail, ModifyMigration.

Name	Type	Required	Description
InstanceId	String	No	Source instance ID in the format of `mssql-si2823jyl` , which is used when `MigrateType` is 1 (TencentDB for SQL Server)
CvmId	String	No	ID of source CVM instance, which is used when `MigrateType` is 2 (CVM-based self-created SQL Server database)
VpcId	String	No	VPC ID of source CVM instance in the format of vpc-6ys9ont9, which is used when `MigrateType` is 2 (CVM-based self-created SQL Server database)
SubnetId	String	No	VPC subnet ID of source CVM instance in the format of subnet-h9extioi, which is used when `MigrateType` is 2 (CVM-based self-created SQL Server database)
UserName	String	No	Username, which is used when `MigrateType` is 1 or 2
Password	String	No	Password, which is used when `MigrateType` is 1 or 2
Ip	String	No	Private IP of source CVM database, which is used when `MigrateType` is 2 (CVM-based self-created SQL Server database)
Port	Integer	No	Port number of source CVM database, which is used when `MigrateType` is 2 (CVM-based self-created SQL Server database)
Url	Array of String	No	Source backup address for offline migration, which is used when `MigrateType` is 4 or 5
UrlPassword	String	No	Source backup password for offline migration, which is used when

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			`MigrateType` is 4 or 5

MigrateTarget

Target type of migration task

Used by actions: CreateMigration, DescribeMigrationDetail, ModifyMigration.

Name	Type	Required	Description
InstanceId	String	No	ID of target instance in the format of mssql-si2823jyl
UserName	String	No	Username of migration target instance
Password	String	No	Password of migration target instance

MigrateTask

Migration task type

Used by actions: DescribeMigrations.

Name	Type	Description
MigrateId	Integer	Migration task ID
MigrateName	String	Migration task name
AppId	Integer	User ID of migration task
Region	String	Migration task region
SourceType	Integer	Migration source type. 1: TencentDB for SQL Server, 2: CVM-based self-created SQL Server database; 3: SQL Server backup restoration, 4: SQL Server backup restoration (in COS mode)
CreateTime	Timestamp	Migration task creation time
StartTime	Timestamp	Migration task start time
EndTime	Timestamp	Migration task end time
Status	Integer	Migration task status (1: initializing, 4: migrating, 5: migration failed, 6: migration succeeded, 7: suspended, 8: deleted, 9: suspending, 10:

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		completing, 11: suspension failed, 12: completion failed)
Message	String	Information
CheckFlag	Integer	Whether migration task has been checked (0: not checked, 1: check succeeded, 2: check failed, 3: checking)
Progress	Integer	Migration task progress in %
MigrateDetail	MigrateDetail	Migration task progress details

Migration

Cold backup migration import

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

Name	Type	Description
MigrationId	String	Backup import task ID or incremental import task ID
MigrationName	String	Backup import task name. For an incremental import task, this field will be left empty. Note: this field may return 'null', indicating that no valid values can be obtained.
AppId	Integer	Application ID
Region	String	Region
InstanceId	String	ID of migrated target instance
RecoveryType	String	Migration task restoration type
UploadType	String	Backup user upload type. COS_URL: the backup is stored in user's Cloud Object Storage, with URL provided. COS_UPLOAD: the backup is stored in the application's Cloud Object Storage and needs to be uploaded by the user.
BackupFiles	Array of String	Backup file list, which is determined by UploadType. If the upload type is COS_URL, URL will be saved. If the upload type is COS_UPLOAD, the backup name will be saved.
Status	Integer	Migration task status. Valid values: `2` (Creation completed), `7` (Importing full backups), `8` (Waiting for incremental backups), `9`

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		(Import success), `10` (Import failure), `12` (Importing incremental backups).
CreateTime	String	Migration task creation time
StartTime	String	Migration task start time
EndTime	String	Migration task end time
Message	String	More information
Detail	MigrationDetail	Migration detail
Action	MigrationAction	Operation allowed in the current status
IsRecovery	String	Whether this is the final restoration. For a full import task, this field will be left empty. Note: this field may return 'null', indicating that no valid values can be obtained.
DBRename	Array of DBRenameRes	Name set of renamed databases Note: This field may return null, indicating that no valid values can be obtained.

MigrationAction

Operation allowed by a cold backup import task

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

Name	Type	Description
AllAction	Array of String	All the allowed operations. Values include: view (viewing a task), modify (modifying a task), start (starting a task), incremental (creating an incremental task), delete (deleting a task), and upload (obtaining the upload permission).
AllowedAction	Array of String	Operation allowed in the current status. If the subset of AllAction is left empty, no operations will be allowed.

MigrationDetail

Details of a cold backup import task

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Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

Name	Type	Description
StepAll	Integer	Total number of steps
StepNow	Integer	Current step
Progress	Integer	Overall progress. For example, “30” means 30%.
StepInfo	Array of MigrationStep	Step information. ‘null’ means the migration has not started Note: this field may return ‘null’, indicating that no valid values can be obtained.

MigrationStep

Migration steps of a cold backup import task

Used by actions: DescribeBackupMigration, DescribeIncrementalMigration.

Name	Type	Description
StepNo	Integer	Step sequence
StepName	String	Step name
StepId	String	Step ID in English
Status	Integer	Step status: 0 (default value), 1 (succeeded), 2 (failed), 3 (in progress), 4 (not started)

OldVip

Used by actions: DescribeDBInstancesAttribute.

Name	Type	Description
Vip	String	
RecycleTime	String	
OldIpRetainTime	Integer	

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ParamRecord

Instance parameter modification record

Used by actions: DescribeInstanceParamRecords.

Name	Type	Description
InstanceId	String	Instance ID
ParamName	String	Parameter name
OldValue	String	Parameter value before modification
NewValue	String	Parameter value after modification
Status	Integer	Parameter modification status. Valid values: `1` (initializing and waiting for modification), `2` (modification succeed), `3` (modification failed), `4` (modifying)
ModifyTime	String	Modification time

Parameter

Database instance parameter

Used by actions: ModifyInstanceParam.

Name	Type	Required	Description
Name	String	No	Parameter name
CurrentValue	String	No	Parameter value

ParameterDetail

Instance parameter details

Used by actions: DescribeInstanceParams.

Name	Type	Description
Name	String	Parameter name

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ParamType	String	Data type of the parameter. Valid values: `integer` , `enum`
Default	String	Default value of the parameter
Description	String	Parameter description
CurrentValue	String	Current value of the parameter
NeedReboot	Integer	Whether the database needs to be restarted for the modified parameter to take effect. Valid values: `0` (no), `1` (yes)
Max	Integer	Maximum value of the parameter
Min	Integer	Minimum value of the parameter
EnumValue	Array of String	Enumerated values of the parameter
Status	Integer	Parameter status. Valid values: `0` (normal), `1` (modifying)

RegionInfo

Region information

Used by actions: DescribeRegions.

Name	Type	Description
Region	String	Region ID in the format of ap-guangzhou
RegionName	String	Region name
RegionId	Integer	Numeric ID of region
RegionState	String	Current purchasability of this region. UNAVAILABLE: not purchasable, AVAILABLE: purchasable

RenameRestoreDatabase

It is used to specify and rename the database to be restored through the `RestoreInstance` , `RollbackInstance` , `CreateMigration` , `CloneDB` or `ModifyBackupMigration` APIs.

Used by actions: CloneDB, CreateMigration, ModifyBackupMigration, RestoreInstance, RollbackInstance.

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Name	Type	Required	Description
OldName	String	No	Database name. If the `OldName` database does not exist, a failure will be returned. It can be left empty in offline migration tasks.
NewName	String	No	New database name. In offline migration, `OldName` will be used if `NewName` is left empty (`OldName` and `NewName` cannot be both empty). In database cloning, `OldName` and `NewName` must be both specified and cannot have the same value.

ResourceTag

The information of tags associated with instances

Used by actions: CreateBusinessDBInstances, CreateCloudDBInstances, CreateCloudReadOnlyDBInstances, CreateDBInstances, DescribeDBInstances.

Name	Type	Required	Description
TagKey	String	Yes	Tag key
TagValue	String	Yes	Tag value

SSLConfig

Used by actions: DescribeDBInstancesAttribute.

Name	Type	Description
Encryption	String	
SSLValidityPeriod	String	
SSLValidity	Integer	

SlaveZones

Replica AZ information

Used by actions: DescribeDBInstances.

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Name	Type	Description
SlaveZone	String	Replica AZ region code
SlaveZoneName	String	Replica AZ

SlowlogInfo

Slow query log file information

Used by actions: DescribeSlowlogs.

Name	Type	Description
Id	Integer	Unique ID of slow query log file
StartTime	Timestamp	File generation start time
EndTime	Timestamp	File generation end time
Size	Integer	File size in KB
Count	Integer	Number of logs in file
InternalAddr	String	Download address for private network
ExternalAddr	String	Download address for public network
Status	Integer	Status (1: success, 2: failure) Note: this field may return null, indicating that no valid values can be obtained.

SpecInfo

Information of purchasable specification for an instance

Used by actions: DescribeProductConfig.

Name	Type	Description
SpecId	Integer	Instance specification ID. The `SpecId` returned by `DescribeZones` together with the purchasable specification information returned by `DescribeProductConfig` can be used to find out what specifications can be purchased in a specified AZ

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MachineType	String	Model ID
MachineTypeName	String	Model name
Version	String	Database version information. Valid values: 2008R2 (SQL Server 2008 Enterprise), 2012SP3 (SQL Server 2012 Enterprise), 2016SP1 (SQL Server 2016 Enterprise), 201602 (SQL Server 2016 Standard), 2017 (SQL Server 2017 Enterprise)
VersionName	String	Version name corresponding to the `Version` field
Memory	Integer	Memory size in GB
CPU	Integer	Number of CPU cores
MinStorage	Integer	Minimum disk size under this specification in GB
MaxStorage	Integer	Maximum disk size under this specification in GB
QPS	Integer	QPS of this specification
SuitInfo	String	Description of this specification
Pid	Integer	Pid of this specification
PostPid	Array of Integer	Pay-as-you-go Pid list corresponding to this specification Note: this field may return null, indicating that no valid values can be obtained.
PayModeStatus	String	Billing mode under this specification. POST: pay-as-you-go
InstanceType	String	Instance type. Valid values: HA (High-Availability Edition, including dual-server high availability and AlwaysOn cluster), RO (read-only replica), SI (Basic Edition)
MultiZonesStatus	String	Whether multi-AZ deployment is supported. Valid values: MultiZones (only multi-AZ deployment is supported), SameZones (only single-AZ deployment is supported), ALL (both deployments are supported)

TDEConfigAttribute

TDE configuration

Used by actions: DescribeDBInstancesAttribute.

Name	Type	Description

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Encryption	String	TDE status. Valid values: `enable` (enabled), `disable` (disabled).
CertificateAttribution	String	Certificate ownership. Valid values: `self` (certificate of the this account), `others` (certificate of the other account), `none` (no certificate).
QuoteUin	String	ID of the other referenced root account when enabling TDE Note: This field may return null, indicating that no valid values can be obtained.

ZoneInfo

AZ information

Used by actions: DescribeZones.

Name	Type	Description
Zone	String	AZ ID in the format of ap-guangzhou-1 (i.e., Guangzhou Zone 1)
ZoneName	String	AZ name
ZoneId	Integer	Numeric ID of AZ
SpecId	Integer	ID of specification purchasable in this AZ, which, together with the returned value of the `DescribeProductConfig` API, can be used to find out the specifications currently purchasable in the AZ
Version	String	Information of database versions purchasable under the current AZ and specification. Valid values: 2008R2 (SQL Server 2008 Enterprise), 2012SP3 (SQL Server 2012 Enterprise), 2016SP1 (SQL Server 2016 Enterprise), 201602 (SQL Server 2016 Standard), 2017 (SQL Server 2017 Enterprise)

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Error Codes

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Feature Description

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

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please check your si
gnature 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	`Authorization` 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

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

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	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.CosError	Failed to access COS.
FailedOperation.CosPropertiesError	Errors occurred while acquiring uploaded configuration information.
FailedOperation.CreateOrderFailed	Failed to create order.
FailedOperation.DBError	Database error.
FailedOperation.GcsError	The operation failed or the network timed out.
FailedOperation.GetVpcFailed	Failed to get VPC information.
FailedOperation.MigrationLockError	Locking the backup import task failed.
FailedOperation.NotSupport	The operation is not supported.

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FailedOperation.QueryOrderFailed	Failed to query order.
FailedOperation.QueryPriceFailed	Billing error. Failed to query price.
FailedOperation.VPCError	Failed to operate the network or the session timed out.
InternalError.CamAuthFailed	CAM authentication request failed.
InternalError.CosError	COS API error.
InternalError.CreateFlowFailed	Failed to create flow.
InternalError.DBConnectError	Database connection error.
InternalError.DBError	Database error
InternalError.GcsError	GCS API error.
InternalError.StsError	Errors occurred while acquiring temporary keys.
InternalError.SystemError	System error.
InternalError.UnknownError	Unknown error.
InternalError.VPCError	VPC error
InvalidParameter.InputIllegal	Input error.
InvalidParameter.InterfaceNameNotFound	The API does not exist.
InvalidParameter.ParamsAssertFailed	An error occurred while converting parameter assertion.
InvalidParameter.PayOrderFailed	Failed to make order payment.
InvalidParameterValue.AccountExist	Account already exists.
InvalidParameterValue.AccountNameIsIllegal	The account name is invalid.
InvalidParameterValue.AccountNameIsKeyWords	The account name includes restricted contents.
InvalidParameterValue.AccountRemarkIsIllegal	The account remarks are invalid.
InvalidParameterValue.AdminAccountNotUnique	You can only apply for one admin account.
InvalidParameterValue.BackupNameIsIllegal	The backup name contains invalid characters.
InvalidParameterValue.BadGoodsNum	Invalid number of purchased instances.

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InvalidParameterValue.CharsetIsIllegal	The database character set is incorrectly set.
InvalidParameterValue.CosPathError	Wrong upload path.
InvalidParameterValue.CostTypeNotSupported	Billing type error.
InvalidParameterValue.DBCharIllegal	The database name contains invalid characters.
InvalidParameterValue.DBExist	The database already exists.
InvalidParameterValue.DBNameIsKeyWrods	The database name cannot contain reserved words.
InvalidParameterValue.DBNameNotNull	The database name is required.
InvalidParameterValue.DBNameSame	The new database name is the same as the old one.
InvalidParameterValue.DataBaseRemarkIsIllegal	The database remarks are invalid.
InvalidParameterValue.GrantIsIllegal	Invalid parameter. The value of `GRANT` is invalid.
InvalidParameterValue.IllegalRegion	Invalid region.
InvalidParameterValue.IllegalSpec	Incorrect instance specification information.
InvalidParameterValue.IllegalZone	Incorrect AZ ID.
InvalidParameterValue.InstanceExpandVolumeLow	The expansion capacity of the instance is lower than the current capacity.
InvalidParameterValue.InstanceNameIsIllegal	The instance name contains invalid characters.
InvalidParameterValue.MigrationNameIsIllegal	The migration name contains invalid characters.
InvalidParameterValue.ModifyTypeValueInvalid	Only `enable` and `disable` are valid values.
InvalidParameterValue.OnCvmTypeNotSupported	Basic edition instances are not supported.
InvalidParameterValue.ParameterTypeError	Incorrect parameter type.
InvalidParameterValue.PasswordIsIllegal	The account and password are invalid.
InvalidParameterValue.PrivilegeIsIllegal	Incorrect database permission settings.
InvalidParameterValue.RoGroupNameIsIllegal	Read-only group name contains invalid characters.
InvalidParameterValue.SecurityGroupIdIsIllegal	Invalid security group ID.

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LimitExceeded.TooManyDB	The database limit is exceeded.
ResourceInUse.IncrementalMigrationExist	An incremental backup import task to be started already exists.
ResourceNotFound.AccountNotExist	The account does not exist.
ResourceNotFound.BackupNotFound	The backup does not exist.
ResourceNotFound.DBNotExit	The database does not exist.
ResourceNotFound.DBNotFound	The database does not exist.
ResourceNotFound.FullBackupMigrationNotExist	The full backup import task does not exist.
ResourceNotFound.IncreBackupMigrationNotExist	The incremental backup import task does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.ParamsNotFound	Parameter not found.
ResourceNotFound.VpcNotExist	The VPC does not exist.
ResourceUnavailable.AccountInvalidStatus	Invalid account status.
ResourceUnavailable.BackupMigrationRecoveryTypeErr	The restoration type does not support incremental backup import.
ResourceUnavailable.CosStatusErr	A wrong status of offline restoration tasks.
ResourceUnavailable.DBInvalidStatus	Invalid database status.
ResourceUnavailable.InstanceMigrateRegionIllegal	Invalid instance migration region.
ResourceUnavailable.InstanceMigrateStatusInvalid	Invalid instance migration status.
ResourceUnavailable.InstanceStatusInvalid	Invalid instance status.
ResourceUnavailable.NotSupportRoInstance	Read-Only instances are not supported.
ResourceUnavailable.VpcNotExist	VPC not found.
UnauthorizedOperation.PermissionDenied	CAM authentication error.
UnsupportedOperation.NotSupportRepeat	Repeated operations are not supported.
UnsupportedOperation.UploadTypeError	A wrong upload type.

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