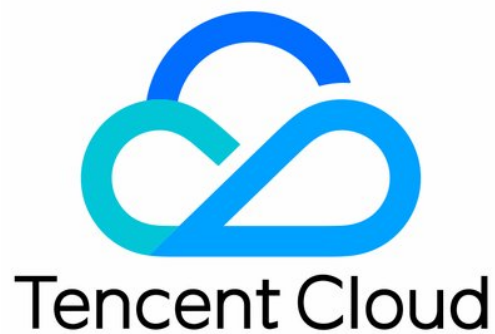


TDSQL-C for MySQL

API Documentation

Product Documentation



Copyright Notice

©2013-2024 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

Trademark Notice



All trademarks associated with Tencent Cloud and its services are owned by Tencent Cloud Computing (Beijing) Company Limited and its affiliated companies. Trademarks of third parties referred to in this document are owned by their respective proprietors.

Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

Contents

API Documentation

History

Introduction

API Category

Making API Requests

Request Structure

Common Params

Signature v3

Signature

Responses

Billing APIs

InquirePriceCreate

DescribeResourcesByDealName

InquirePriceRenew

Instance APIs

CloseClusterPasswordComplexity

CopyClusterPasswordComplexity

DescribeClusterDetail

DescribeClusterPasswordComplexity

ModifyClusterPasswordComplexity

OpenClusterPasswordComplexity

UpgradeClusterVersion

UpgradeInstance

SetRenewFlag

OfflineCluster

ModifyMaintainPeriodConfig

IsolateInstance

IsolateCluster

DescribeMaintainPeriod

DescribeInstanceSpecs

DescribeClusters

CreateClusters

AddInstances

OfflineInstance

DescribeInstanceDetail

DescribeClusterInstanceGrps

DescribeInstances

ActivateInstance

ModifyInstanceName

ModifyClusterName

SearchClusterTables

SearchClusterDatabases

RestartInstance

Multi-AZ APIs

SwitchClusterZone

RemoveClusterSlaveZone

ModifyClusterSlaveZone

AddClusterSlaveZone

Account APIs

DeleteAccounts

DescribeAccountPrivileges

ModifyAccountDescription

ModifyAccountHost

ModifyAccountPrivileges

DescribeAccounts

CreateAccounts

ResetAccountPassword

Audit APIs

OpenAuditService

ModifyAuditService

ModifyAuditRuleTemplates

DescribeAuditRuleWithInstanceIds

DescribeAuditRuleTemplates

DeleteAuditRuleTemplates

CreateAuditRuleTemplate

CloseAuditService

Database Proxy APIs

DescribeProxies

DescribeProxyNodes

DescribeProxySpecs

DescribeSupportProxyVersion

CloseProxy

CreateProxy

UpgradeProxy
CreateProxyEndPoint
ModifyProxyDesc
ReloadBalanceProxyNode
UpgradeProxyVersion
ModifyProxyRwSplit

Backup and Restoration APIs

ModifyBinlogSaveDays
ModifyBackupConfig
DescribeRollbackTimeValidity
DescribeRollbackTimeRange
DescribeBackupList
DescribeBackupConfig
ModifyBackupName
DescribeBinlogs
DescribeBinlogSaveDays
DescribeBinlogDownloadUrl
DescribeBackupDownloadUrl
CreateBackup
DeleteBackup

Parameter Management APIs

CreateParamTemplate
DeleteParamTemplate
DescribeInstanceParams
DescribeParamTemplateDetail
ModifyInstanceParam
ModifyParamTemplate
ModifyClusterParam
DescribeParamTemplates
DescribeClusterParams

Performance Analysis APIs

DescribeInstanceErrorLogs
ExportInstanceErrorLogs
ExportInstanceSlowQueries
DescribeInstanceSlowQueries

Serverless APIs

ResumeServerless
PauseServerless

ResourcePackage APIs

- BindClusterResourcePackages
- CreateResourcePackage
- DescribeResourcePackageDetail
- DescribeResourcePackageSaleSpec
- ModifyResourcePackageName
- RefundResourcePackage
- UnbindClusterResourcePackages
- DescribeResourcePackageList
- ModifyResourcePackageClusters

Other APIs

- CloseWan
- CreateClusterDatabase
- DeleteClusterDatabase
- DescribeClusterDetailDatabases
- ModifyClusterDatabase
- OpenWan
- SwitchClusterVpc
- OpenReadOnlyInstanceExclusiveAccess
- OpenClusterReadOnlyInstanceGroupAccess
- ModifyDBInstanceSecurityGroups
- DescribeProjectSecurityGroups
- DescribeDBSecurityGroups
- SwitchProxyVpc
- DescribeFlow
- DescribeZones
- ModifyVipVport

Data Types

Error Codes

API Documentation

History

Last updated : 2024-07-19 11:16:11

Release 27

Release time: 2024-07-19 11:15:51

Release updates:

Improvement to existing documentation.

Modified data structures:

- [ClusterInstanceDetail](#)
 - New members: InstanceTasks, InstanceDeviceType

Release 26

Release time: 2024-07-17 17:22:24

Release updates:

Improvement to existing documentation.

Modified APIs:

- [InquirePriceCreate](#)
 - New input parameters: DeviceType

Release 25

Release time: 2023-08-23 10:04:05

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeResourcePackageDetail](#)

- New input parameters: InstanceIds

Modified data structures:

- [BindInstanceInfo](#)
 - New members: ExtendIds
 - **Modified members:** InstanceId, InstanceRegion, InstanceType
- [CynosdbClusterDetail](#)
 - **Modified members:** ResourcePackages, RenewFlag
- [InstanceInitInfo](#)
 - New members: MinRoCount, MaxRoCount, MinRoCpu, MaxRoCpu

Release 24

Release time: 2023-08-18 10:41:40

Release updates:

Improvement to existing documentation.

New APIs:

- [CloseProxy](#)
- [CreateProxy](#)
- [CreateProxyEndPoint](#)
- [DescribeProxies](#)
- [DescribeProxyNodes](#)
- [DescribeProxySpecs](#)
- [DescribeSupportProxyVersion](#)
- [ModifyProxyDesc](#)
- [ModifyProxyRwSplit](#)
- [OpenClusterReadOnlyInstanceGroupAccess](#)
- [ReloadBalanceProxyNode](#)
- [UpgradeProxy](#)
- [UpgradeProxyVersion](#)

Modified APIs:

- [DescribeAccounts](#)
 - New input parameters: AccountRegular
- [ExportInstanceSlowQueries](#)

- New input parameters: `OrderBy`, `OrderByType`

New data structures:

- [ProxyConnectionPoolInfo](#)
- [ProxyGroup](#)
- [ProxyGroupInfo](#)
- [ProxyGroupRwInfo](#)
- [ProxyInstanceWeight](#)
- [ProxyNodeInfo](#)
- [ProxySpec](#)
- [ProxyZone](#)
- [QueryParamFilter](#)

Modified data structures:

- [ClusterInstanceDetail](#)
 - New members: `MaintainStartTime`, `MaintainDuration`, `MaintainWeekDays`, `ServerlessStatus`

Release 23

Release time: 2023-07-06 16:38:50

Release updates:

Improvement to existing documentation.

New APIs:

- [BindClusterResourcePackages](#)
- [CloseClusterPasswordComplexity](#)
- [CloseWan](#)
- [CopyClusterPasswordComplexity](#)
- [CreateClusterDatabase](#)
- [CreateParamTemplate](#)
- [CreateResourcePackage](#)
- [DeleteAccounts](#)
- [DeleteClusterDatabase](#)
- [DeleteParamTemplate](#)
- [DescribeAccountPrivileges](#)
- [DescribeClusterDetailDatabases](#)

- [DescribeClusterPasswordComplexity](#)
- [DescribeInstanceErrorLogs](#)
- [DescribeInstanceParams](#)
- [DescribeParamTemplateDetail](#)
- [DescribeResourcePackageDetail](#)
- [DescribeResourcePackageList](#)
- [DescribeResourcePackageSaleSpec](#)
- [ExportInstanceErrorLogs](#)
- [ModifyAccountDescription](#)
- [ModifyAccountHost](#)
- [ModifyAccountPrivileges](#)
- [ModifyBinlogSaveDays](#)
- [ModifyClusterDatabase](#)
- [ModifyClusterPasswordComplexity](#)
- [ModifyInstanceParam](#)
- [ModifyParamTemplate](#)
- [ModifyResourcePackageClusters](#)
- [ModifyResourcePackageName](#)
- [OpenClusterPasswordComplexity](#)
- [OpenReadOnlyInstanceExclusiveAccess](#)
- [OpenWan](#)
- [RefundResourcePackage](#)
- [UnbindClusterResourcePackages](#)
- [UpgradeClusterVersion](#)

New data structures:

- [BindInstanceInfo](#)
- [CynosdbErrorLogItem](#)
- [DatabasePrivileges](#)
- [DbInfo](#)
- [ErrorLogItemExport](#)
- [InputAccount](#)
- [InstanceParamItem](#)
- [Package](#)
- [PackageDetail](#)
- [ParamDetail](#)
- [ParamItemDetail](#)

- [ResourcePackage](#)
- [SalePackageSpec](#)
- [TablePrivileges](#)
- [UserHostPrivilege](#)

Modified data structures:

- [CynosdbCluster](#)
 - New members:ResourcePackages
- [CynosdbClusterDetail](#)
 - New members:ResourcePackages, RenewFlag
- [CynosdbInstance](#)
 - New members:DbMode, ResourcePackages
- [NetAddr](#)
 - New members:InstanceGroupId

Release 22

Release time: 2023-03-29 17:48:08

Release updates:

Improvement to existing documentation.

Modified APIs:

- [AddInstances](#)
 - New input parameters:SecurityGroupIds

Release 21

Release time: 2023-03-15 10:57:49

Release updates:

Improvement to existing documentation.

New data structures:

- [InstanceNetInfo](#)

Modified data structures:

- [CynosdbInstance](#)
 - New members: MasterZone, SlaveZones, InstanceNetInfo

Release 20

Release time: 2023-03-06 17:40:43

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyVipVport](#)

Release 19

Release time: 2023-02-21 15:01:01

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeZones](#)
- [SwitchClusterVpc](#)

New data structures:

- [Module](#)
- [SaleRegion](#)
- [SaleZone](#)

Release 18

Release time: 2023-02-10 11:01:19

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeFlow](#)
- [RestartInstance](#)

Release 17

Release time: 2023-01-10 14:48:19

Release updates:

Improvement to existing documentation.

New APIs:

- [CloseAuditService](#)
- [CreateAuditRuleTemplate](#)
- [DeleteAuditRuleTemplates](#)
- [DescribeAuditRuleTemplates](#)
- [DescribeAuditRuleWithInstanceIds](#)
- [ModifyAuditRuleTemplates](#)
- [ModifyAuditService](#)
- [OpenAuditService](#)

Modified APIs:

- [AddInstances](#)
 - New input parameters: ParamTemplateId, InstanceParams
- [DeleteBackup](#)
 - New input parameters: BackupIds
 - **Modified input parameters:** SnapshotIdList

New data structures:

- [Ability](#)
- [AuditRuleFilters](#)
- [AuditRuleTemplateInfo](#)
- [InstanceAuditRule](#)
- [ModifyParamItem](#)
- [OldAddrInfo](#)
- [RuleFilters](#)

Modified data structures:

- [ClusterInstanceDetail](#)
 - New members:InstanceRole
- [CynosdbCluster](#)
 - New members:PhysicalZone, MasterZone, HasSlaveZone, SlaveZones, BusinessType, IsFreeze, OrderSource, Ability
- [CynosdbClusterDetail](#)
 - New members:LogBin, PitrType, PhysicalZone, StorageId, Storage, MaxStorageSize, MinStorageSize, StoragePayMode, DbMode, StorageLimit, Ability, CynosVersion, BusinessType, HasSlaveZone, IsFreeze, Tasks, MasterZone, SlaveZones, ProxyStatus, IsSkipTrade, IsOpenPasswordComplexity, NetworkStatus
- [CynosdbInstanceGrp](#)
 - New members:UniqVpcId, UniqSubnetId, OldAddrInfo, ProcessingTasks, Tasks, NetServiceId
 - **Modified members:** AppId, ClusterId, CreatedTime, DeletedTime, InstanceGrpId, Status, Type, UpdatedTime, Vip, Vport, WanDomain, WanIP, WanPort, WanStatus, InstanceSet
- [InstanceSpec](#)
 - New members:StockCount
- [NetAddr](#)
 - New members:WanIP, WanStatus
- [NewAccount](#)
 - New members:MaxUserConnections
- [ZoneStockInfo](#)
 - New members:StockCount

Release 16

Release time: 2022-12-27 10:40:18

Release updates:

Improvement to existing documentation.

New APIs:

- [ResetAccountPassword](#)
- [SearchClusterDatabases](#)
- [SearchClusterTables](#)
- [SwitchProxyVpc](#)

Modified APIs:

- [CreateClusters](#)

- New input parameters: InstanceInitInfos
- [DescribeAccounts](#)
 - New input parameters: Hosts, Limit, Offset
 - New output parameters: TotalCount
- [DescribeBackupList](#)
 - New input parameters: SnapshotIdList
- [DescribeClusterParams](#)
 - New input parameters: ParamName
- [DescribeProjectSecurityGroups](#)
 - New input parameters: Limit, Offset, SearchKey
 - **Modified input parameters:** ProjectId
 - New output parameters: Total
- [UpgradeInstance](#)
 - New input parameters: UpgradeMode

New data structures:

- [InstanceInitInfo](#)
- [ModifiableInfo](#)

Modified data structures:

- [Account](#)
 - New members: MaxUserConnections
- [CynosdbInstance](#)
 - New members: PhysicalZone, BusinessType, Tasks, IsFreeze, ResourceTags
- [ParamInfo](#)
 - New members: IsGlobal, ModifiableInfo, IsFunc, Func

Release 15

Release time: 2022-12-05 10:51:20

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeParamTemplates](#)

- New input parameters:EngineVersions, TemplateNames, TemplateIds, DbModes, Offset, Limit, Products, TemplateTypes, EngineTypes, OrderBy, OrderDirection

New data structures:

- [TemplateParamInfo](#)

Modified data structures:

- [ParamTemplateListInfo](#)
 - New members:DbMode, ParamInfoSet

Release 14

Release time: 2022-11-08 11:31:30

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteBackup](#)

Modified data structures:

- [QueryFilter](#)
 - New members:Operator

Release 13

Release time: 2022-09-23 15:47:31

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeBackupList](#)
 - New input parameters:BackupIds, BackupType, BackupMethod, SnapShotType, StartTime, EndTime, FileNames, BackupNames
 - **Modified input parameters:** Limit, Offset

Modified data structures:

- [BackupFileInfo](#)
 - New members:BackupId, SnapShotType, BackupName

Release 12

Release time: 2022-09-16 15:54:33

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateBackup](#)

New data structures:

- [DatabaseTables](#)

Release 11

Release time: 2022-09-08 16:30:53

Release updates:

Improvement to existing documentation.

New APIs:

- [AddClusterSlaveZone](#)
- [DescribeClusterParams](#)
- [ModifyClusterSlaveZone](#)
- [RemoveClusterSlaveZone](#)
- [SwitchClusterZone](#)

Modified APIs:

- [DescribeInstanceSpecs](#)
 - New input parameters:IncludeZoneStocks
- [DescribeRollbackTimeRange](#)
 - New output parameters:RollbackTimeRanges

New data structures:

- [ParamInfo](#)
- [RollbackTimeRange](#)
- [ZoneStockInfo](#)

Modified data structures:

- [InstanceSpec](#)
 - New members: HasStock, MachineType, MaxIops, MaxIoBandWidth, ZoneStockInfos

Release 10

Release time: 2022-08-26 11:17:44

Release updates:

Improvement to existing documentation.

Modified data structures:

- [NetAddr](#)
 - New members: UniqSubnetId, UniqVpcId, Description

Release 9

Release time: 2022-08-11 11:09:39

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeParamTemplates](#)
- [InquirePriceCreate](#)
- [InquirePriceRenew](#)

New data structures:

- [ParamTemplateListInfo](#)
- [TradePrice](#)

Release 8

Release time: 2022-08-01 17:09:40

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateClusters](#)
 - New input parameters:SlaveZone
- [DescribeResourcesByDealName](#)
 - New input parameters:DealNames
 - **Modified input parameters:** DealName

Modified data structures:

- [BillingResourceInfo](#)
 - New members:DealName

Release 7

Release time: 2022-07-18 14:22:41

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateClusters](#)
- [DescribeBackupDownloadUrl](#)
- [DescribeBinlogDownloadUrl](#)
- [DescribeBinlogSaveDays](#)
- [DescribeBinlogs](#)
- [DescribeInstanceSlowQueries](#)
- [ExportInstanceSlowQueries](#)
- [ModifyBackupName](#)

New data structures:

- [BinlogItem](#)

- [SlowQueriesItem](#)

Release 6

Release time: 2022-04-07 11:36:43

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateAccounts](#)
- [ModifyClusterName](#)
- [ModifyInstanceName](#)

Deleted APIs:

- [CreateClusters](#)

New data structures:

- [NewAccount](#)

Release 5

Release time: 2022-03-07 14:51:42

Release updates:

Improvement to existing documentation.

New APIs:

- [ActivateInstance](#)
- [PauseServerless](#)
- [ResumeServerless](#)

Modified APIs:

- [ModifyClusterParam](#)
 - New input parameters: `IsInMaintainPeriod`

Release 4

Release time: 2021-11-08 10:21:42

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyClusterParam](#)

New data structures:

- [NetAddr](#)

Modified data structures:

- [CynosdbCluster](#)
 - New members:NetAddrs

Release 3

Release time: 2021-10-21 10:24:37

Release updates:

Improvement to existing documentation.

Modified APIs:

- [AddInstances](#)
 - New input parameters:DealMode
- [CreateClusters](#)
 - New input parameters:SecurityGroupIds, AlarmPolicyIds, ClusterParams, DealMode, ParamTemplateId
- [UpgradeInstance](#)
 - New input parameters:DealMode

New data structures:

- [ParamItem](#)

Release 2

Release time: 2021-08-05 17:29:32

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateClusters](#)
 - New input parameters:StoragePayMode
- [DescribeBackupList](#)
 - New input parameters:DbType

Modified data structures:

- [CynosdbCluster](#)
 - New members:Storage, StorageId, StoragePayMode, MinStorageSize, MaxStorageSize
- [CynosdbInstance](#)
 - New members:StoragePayMode, StorageId
- [CynosdbInstanceDetail](#)
 - New members:MinCpu, MaxCpu, ServerlessStatus

Release 1

Release time: 2021-06-17 09:56:20

Release updates:

Improvement to existing documentation.

New APIs:

- [AddInstances](#)
- [CreateClusters](#)
- [DescribeAccounts](#)
- [DescribeBackupConfig](#)
- [DescribeBackupList](#)
- [DescribeClusterDetail](#)
- [DescribeClusterInstanceGrps](#)
- [DescribeClusters](#)
- [DescribeDBSecurityGroups](#)
- [DescribeInstanceDetail](#)

- [DescribeInstanceSpecs](#)
- [DescribeInstances](#)
- [DescribeMaintainPeriod](#)
- [DescribeProjectSecurityGroups](#)
- [DescribeResourcesByDealName](#)
- [DescribeRollbackTimeRange](#)
- [DescribeRollbackTimeValidity](#)
- [IsolateCluster](#)
- [IsolateInstance](#)
- [ModifyBackupConfig](#)
- [ModifyDBInstanceSecurityGroups](#)
- [ModifyMaintainPeriodConfig](#)
- [OfflineCluster](#)
- [OfflineInstance](#)
- [SetRenewFlag](#)
- [UpgradeInstance](#)

New data structures:

- [Account](#)
- [Addr](#)
- [BackupFileInfo](#)
- [BillingResourceInfo](#)
- [ClusterInstanceDetail](#)
- [CynosdbCluster](#)
- [CynosdbClusterDetail](#)
- [CynosdbInstance](#)
- [CynosdbInstanceDetail](#)
- [CynosdbInstanceGrp](#)
- [InstanceSpec](#)
- [ObjectTask](#)
- [PolicyRule](#)
- [QueryFilter](#)
- [SecurityGroup](#)
- [Tag](#)

Introduction

Last updated : 2024-07-17 17:23:14

Cloud Native Database TDSQL-C (TDSQL-C for short) is a new-generation enterprise-grade distributed cloud database developed by Tencent Cloud. It features high performance and availability and combines the strengths of traditional databases, cloud computing, and cutting-edge hardware technologies. It is compatible with MySQL and PostgreSQL and can provide a high throughput of over one million QPS and a massive distributed smart storage capacity of 128 TB, comprehensively ensuring data security and reliability.

API Category

Last updated : 2024-07-19 12:11:47

Instance APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ActivateInstance	Removes the isolation of an instance to make it accessible again	20
AddInstances	Adds instance in cluster	20
CloseClusterPasswordComplexity	Disables the password complexity for a cluster	20
CopyClusterPasswordComplexity	Replicates the password complexity for a cluster	20
CreateClusters	Creates a cluster	20
DescribeClusterDetail	Displays cluster details	20
DescribeClusterInstanceGrps	Queries instance groups	1000
DescribeClusterPasswordComplexity	Queries the details of password complexity for a cluster	20
DescribeClusters	Queries cluster list	1000
DescribeInstanceDetail	Queries instance details	1000
DescribeInstanceSpecs	Queries instance specifications	100
DescribeMaintainPeriod	Queries instance maintenance window	1000
IsolateCluster	Isolates cluster	20
IsolateInstance	Isolates instance	20
ModifyClusterName	Modifies cluster name	20
ModifyClusterPasswordComplexity	Modifies the password complexity for a cluster	20

ModifyInstanceName	Modifies instance name	20
ModifyMaintainPeriodConfig	Modifies maintenance time configuration	20
OfflineCluster	Deactivates cluster	20
OfflineInstance	Deactivates instance	20
OpenClusterPasswordComplexity	Enables the password complexity for a cluster	20
RestartInstance	Restarts an instance	20
SearchClusterDatabases	Searches the list of cluster databases	20
SearchClusterTables	Searches the list of cluster data tables	20
SetRenewFlag	Sets auto-renewal	20
UpgradeClusterVersion	Upgrades the kernel version of a TDSQL-C for MySQL cluster	20
UpgradeInstance	Upgrades instance	20
DescribeInstances	Queries the instance list	1000

Multi-AZ APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AddClusterSlaveZone	Adds the replica AZ	20
ModifyClusterSlaveZone	Modifies the replica AZ	20
RemoveClusterSlaveZone	Deletes the replica AZ	20
SwitchClusterZone	Switches to the replica AZ	20

Other APIs

API Name	Feature	Frequency Limit (maximum requests per
----------	---------	---------------------------------------

		second)
CloseWan	Disables the public network	20
CreateClusterDatabase	Creates a database	20
DeleteClusterDatabase	Deletes a database	20
DescribeClusterDetailDatabases	Queries the database list	20
DescribeDBSecurityGroups	Queries the security group information of instance	20
DescribeFlow	Queries task flow information	20
DescribeProjectSecurityGroups	Queries the security group information of project	20
DescribeZones	Queries the AZ information in a purchasable region	1000
ModifyClusterDatabase	Modifies the database	20
ModifyDBInstanceSecurityGroups	Modifies security groups bound to instance	20
ModifyVipVport	Modifies the IP and port of an instance group	20
OpenWan	Enables the public network	20
SwitchProxyVpc	Modifies the database proxy VPC	20
SwitchClusterVpc	Modifies the cluster VPC	20
OpenReadOnlyInstanceExclusiveAccess	Enables the dedicated access group for a read-only instance	20
OpenClusterReadOnlyInstanceGroupAccess	This API is used to enable the access to read-only instance group.	20

Account APIs

API Name	Feature	Frequency Limit (maximum requests per second)
----------	---------	---

CreateAccounts	Creates an account	20
DeleteAccounts	Deletes an account	20
DescribeAccountPrivileges	Queries the existing permissions of an account	20
DescribeAccounts	Queries database management accounts	20
ModifyAccountDescription	Modifies the descriptions of a database account	20
ModifyAccountHost	Modifies the account host	20
ModifyAccountPrivileges	Modifies the account permissions	20
ResetAccountPassword	Resets the password of a TencentDB instance account	20

Audit APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CloseAuditService	Disables the audit service for an instance	20
CreateAuditRuleTemplate	Creates an audit rule template	20
DeleteAuditRuleTemplates	Deletes an audit rule template	20
DescribeAuditRuleTemplates	Queries audit rule templates	20
DescribeAuditRuleWithInstanceIds	Gets the audit rule templates of an instance	20
ModifyAuditRuleTemplates	Modifies an audit rule template	20
ModifyAuditService	Modifies the audit service of an instance	20
OpenAuditService	Enables the audit service for an instance	20

Database Proxy APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeProxies	Queries the list of database proxies	20
DescribeProxyNodes	Queries the list of the proxy nodes	20
DescribeProxySpecs	This API is used to query the specifications of a database proxy.	20
CloseProxy	Disables the database proxy	20
DescribeSupportProxyVersion	Queries the supported database proxy versions.	20
CreateProxy	Creates a database proxy	20
UpgradeProxy	Upgrades the configuration of a database proxy	20
CreateProxyEndPoint	Creates a database proxy connection	20
ModifyProxyDesc	Modifies the description of a database proxy	20
ReloadBalanceProxyNode	Rebalances the load on the database proxy.	20
UpgradeProxyVersion	Upgrades the version of a database proxy	20
ModifyProxyRwSplit	This API is used to configure the read/write separation of a database proxy.	20

Backup and Restoration APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateBackup	Creates manual backup	20
DeleteBackup	Deletes the manual backup	20
DescribeBackupConfig	Queries backup configuration information	20

DescribeBackupDownloadUrl	Queries the download address of a backup file	20
DescribeBackupList	Queries backup file list	20
DescribeBinlogDownloadUrl	Queries the download address of a binlog	20
DescribeBinlogSaveDays	Queries the binlog retention period in days	20
DescribeBinlogs	Queries the list of binlogs	20
DescribeRollbackTimeRange	Queries valid rollback time range	20
DescribeRollbackTimeValidity	Queries whether rollback is possible based on specified time	20
ModifyBackupConfig	Modifies backup configuration	20
ModifyBackupName	Renames a backup file	20
ModifyBinlogSaveDays	Modifies the binlog retention period in days	20

Parameter Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateParamTemplate	Creates a parameter template	20
DeleteParamTemplate	Deletes a parameter template	20
DescribeClusterParams	Queries the parameters of a cluster	20
DescribeInstanceParams	Queries the parameter list of an instance	20
DescribeParamTemplateDetail	Queries the details of a parameter template	20
DescribeParamTemplates	Queries the information of parameter templates	1000
ModifyClusterParam	Modifies the parameters of a cluster	20

ModifyInstanceParam	Modifies the instance parameters	20
ModifyParamTemplate	Modifies a parameter template	20

Performance Analysis APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeInstanceErrorLogs	Queries the list of error logs for an instance	20
DescribeInstanceSlowQueries	Queries the slow query logs of an instance	20
ExportInstanceErrorLogs	Exports the error logs of an instance	20
ExportInstanceSlowQueries	Exports the slow logs of an instance	20

Billing APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeResourcesByDealName	Queries resource information by order ID	20
InquirePriceRenew	Queries the renewal price of a cluster	20
InquirePriceCreate	Queries the purchasable price of a cluster	20

Serverless APIs

API Name	Feature	Frequency Limit (maximum requests per second)
PauseServerless	Pauses a serverless cluster	20

ResumeServerless	Resumes a serverless cluster	20
----------------------------------	------------------------------	----

ResourcePackage APIs

API Name	Feature	Frequency Limit (maximum requests per second)
BindClusterResourcePackages	Binds a resource pack to a cluster	20
CreateResourcePackage	Purchases a resource pack	20
DescribeResourcePackageDetail	Queries the usage details of a resource pack	20
DescribeResourcePackageSaleSpec	Queries the specifications of a resource pack	20
ModifyResourcePackageName	Modifies the name of a resource pack	20
RefundResourcePackage	Refunds a resource pack	20
UnbindClusterResourcePackages	Unbinds a TDSQL-C for MySQL resource pack	20
DescribeResourcePackageList	Queries the list of the resource packs	20
ModifyResourcePackageClusters	Modifies the association between the cluster and the resource pack	20

Making API Requests

Request Structure

Last updated : 2024-07-17 17:23:15

1. Service Address

The API supports access from either a nearby region (at `cynosdb.tencentcloudapi.com`) or a specified region (at `cynosdb.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 "`cynosdb.ap-guangzhou.tencentcloudapi.com`".

Note: For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

Hosted region	Domain name
Local access region (recommended, only for non-financial availability zones)	<code>cynosdb.tencentcloudapi.com</code>
South China (Guangzhou)	<code>cynosdb.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>cynosdb.ap-shanghai.tencentcloudapi.com</code>
North China (Beijing)	<code>cynosdb.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>cynosdb.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>cynosdb.ap-chongqing.tencentcloudapi.com</code>
Hong Kong, Macao, Taiwan (Hong Kong, China)	<code>cynosdb.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>cynosdb.ap-singapore.tencentcloudapi.com</code>

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

Last updated : 2024-07-17 17:23:17

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

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

Common parameters for Signature Algorithm v3

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

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

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

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

Example of an HTTP GET request structure:

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

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

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

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

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

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

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

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

```
Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
```

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

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

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

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

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

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

```
--58731222010402
```

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

```
0
```

```
--58731222010402
```

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

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

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

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

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

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bb224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

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

Example of an HTTP POST request structure:

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

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

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

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

Region List

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

Region	Value
North China (Beijing)	ap-beijing
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
East China (Nanjing)	ap-nanjing
Northeast Asia (Seoul)	ap-seoul
East China (Shanghai)	ap-shanghai
Southeast Asia (Singapore)	ap-singapore
Northeast Asia (Tokyo)	ap-tokyo
Europe (Frankfurt)	eu-frankfurt
East US (Virginia)	na-ashburn
West US (Silicon Valley)	na-siliconvalley

Signature v3

Last updated : 2024-07-17 17:23:20

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

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

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

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

POST

/

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

host:cvm.tencentcloudapi.com

content-type;host

`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

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

HashedCanonicalRequest

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

```
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

Note:

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

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

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

3. Calculating the Signature

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

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

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

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

2. Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

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

The following example shows a finished authorization header:

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

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

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

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

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

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

```

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

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

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

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

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

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

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

```

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

Python

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

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

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

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

```

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

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

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

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

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

```

Golang

```
package main

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

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

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

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

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



```

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

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

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

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

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

```

PHP

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

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

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

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

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

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

Ruby

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

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

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

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

```

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

puts canonical_request

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

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

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

puts 'curl -X POST ' + endpoint \

```

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

DotNet

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

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

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

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

```

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

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

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

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

```

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

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

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

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

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

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

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

NodeJS

```

const crypto = require('crypto');

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

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

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

function main() {

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

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

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

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

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

  const canonicalRequest = httpRequestMethod + "\n"

```



```

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

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

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

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

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

```

C++

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

using namespace std;

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

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

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

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

```

return output;
}

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

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

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

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

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

```

```

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

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

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

```

Signature Failure

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

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

Signature

Last updated : 2024-07-17 17:23:22

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

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

1. Applying for Security Credentials

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

Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*****';  
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins  
-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=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

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

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

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

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
        StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
        // There is no requirement for the order of the parameters in the actual request
        // URL.
        for (String k : params.keySet()) {
```

```
// The request string needs to be URL encoded. As the Key is all in English letters, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
}
return url.toString().substring(0, url.length() - 1);
}

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

Python

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

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

import requests

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

```

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

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

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

```

Golang

```

package main

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

func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WfkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"

```

```

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

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

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

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

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

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

```

PHP

```

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

```

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

Ruby

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

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

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

```

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

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

```

DotNet

```

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

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

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

```



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

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

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

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

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

```

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

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

```

NodeJS

```

const crypto = require('crypto');

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

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

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

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

```

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

function main(){
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

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

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

strParam = sort_params(params)

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

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

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


Responses

Last updated : 2024-07-17 17:23:23

Response for Successful Requests

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

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

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

Response for Failed Requests

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

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

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

Common Error Codes

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

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

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

Billing APIs

InquirePriceCreate

Last updated : 2024-07-17 17:23:25

1. API Description

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

This API is used to query the purchasable price of a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: InquirePriceCreate.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Zone	Yes	String	AZ
GoodsNum	Yes	Integer	Number of compute node to purchase
InstancePayMode	Yes	String	Instance type for purchase. Valid values: <code>PREPAID</code> , <code>POSTPAID</code> , <code>SERVERLESS</code> .
StoragePayMode	Yes	String	Storage type for purchase. Valid values: <code>PREPAID</code> , <code>POSTPAID</code> .

DeviceType	No	String	device type:common, exclusive
Cpu	No	Integer	Number of CPU cores, which is required when <code>InstancePayMode</code> is <code>PREPAID</code> or <code>POSTPAID</code> .
Memory	No	Integer	Memory size in GB, which is required when <code>InstancePayMode</code> is <code>PREPAID</code> or <code>POSTPAID</code> .
Ccu	No	Float	CCU size, which is required when <code>InstancePayMode</code> is <code>SERVERLESS</code> .
StorageLimit	No	Integer	Storage size, which is required when <code>StoragePayMode</code> is <code>PREPAID</code> .
TimeSpan	No	Integer	Validity period, which is required when <code>InstancePayMode</code> is <code>PREPAID</code> .
TimeUnit	No	String	Duration unit, which is required when <code>InstancePayMode</code> is <code>PREPAID</code> . Valid values: <code>m</code> (month), <code>d</code> (day).

3. Output Parameters

Parameter Name	Type	Description
InstancePrice	TradePrice	Instance price
StoragePrice	TradePrice	Storage price
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 purchasable price of a cluster

Input Example

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

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

```
{
  "Zone": "ap-guangzhou-3",
  "GoodsNum": 1,
  "Cpu": 1,
  "Memory": 1,
  "StorageLimit": 10,
  "TimeSpan": 1,
  "TimeUnit": "m",
  "InstancePayMode": "POSTPAID",
  "StoragePayMode": "POSTPAID"
}
```

Output Example

```
{
  "Response": {
    "InstancePrice": {
      "ChargeUnit": "",
      "Discount": 100,
      "TotalPrice": 200,
      "TotalPriceDiscount": 200,
      "UnitPrice": 0,
      "UnitPriceDiscount": 0
    },
    "RequestId": "123-123bcde-1243",
    "StoragePrice": {
      "ChargeUnit": "GB*h",
      "Discount": 100,
      "TotalPrice": 0,
      "TotalPriceDiscount": 0,
      "UnitPrice": 350,
      "UnitPriceDiscount": 350
    }
  }
}
```

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.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameter.InvalidParameterError	Unknown parameter. Please check whether the parameter is valid.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidZoneldError	Invalid AZ
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeResourcesByDealName

Last updated : 2023-08-23 14:23:06

1. API Description

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

This API is used to query the list of resources by billing order ID.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeResourcesByDealName.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
DealName	No	String	Order ID. (If the cluster is not delivered yet, the <code>DescribeResourcesByDealName</code> API may return the <code>InvalidParameterValue.DealNameNotFound</code> error. Call the API again until it succeeds.)
DealNames.N	No	Array of String	Order ID, which can be used to query the resource information of multiple orders ID (If the cluster is not delivered yet, the <code>DescribeResourcesByDealName</code> API may return the

`InvalidParameterValue.DealNameNotFound` error. Call the API again until it succeeds.)

3. Output Parameters

Parameter Name	Type	Description
BillingResourceInfos	Array of BillingResourceInfo	Billable resource ID information array
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the information of resource associated with order ID

Input Example

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

{
  "DealName": "xxx"
}
```

Output Example

```
{
  "Response": {
    "BillingResourceInfos": [
      {
        "ClusterId": "cynosdbmysql-r8ewihg4",
        "InstanceIds": [
          "cynosdbmysql-ins-pecl0drs"
        ],
        "DealName": "xxx"
      },
    ],
  }
}
```

```
{
  "ClusterId": "cynosdbmysql-hjosrxhu",
  "InstanceIds": [
    "cynosdbmysql-ins-7f59pahg"
  ],
  "DealName": "xxx"
},
{
  "RequestId": "005b862f-f408-4a95-a7e7-26f3e672e081"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.

InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.DealNameNotFound	No order ID found.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.ParameterOutOfRangeError	Invalid parameter value
OperationDenied.InstanceAccessDeniedError	You do not have the permission to operate this resource.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

InquirePriceRenew

Last updated : 2023-08-23 14:23:06

1. API Description

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

This API is used to query the renewal price of a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: InquirePriceRenew.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
TimeSpan	Yes	Integer	Validity period, which needs to be used together with <code>TimeUnit</code> .
TimeUnit	Yes	String	Unit of validity period, which needs to be used together with <code>TimeSpan</code> . Valid values: <code>d</code> (day), <code>m</code> (month).

3. Output Parameters

Parameter Name	Type	Description
ClusterId	String	Cluster ID
InstanceIds	Array of String	Instance ID list
Prices	Array of TradePrice	Price of instance specification in array
InstanceRealTotalPrice	Integer	Total renewal price of compute node
StorageRealTotalPrice	Integer	Total renewal price of storage node
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the renewal price of a cluster

Input Example

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

{
  "ClusterId": "xxx",
  "TimeSpan": 1,
  "TimeUnit": "m"
}
```

Output Example

```
{
  "Response": {
    "Prices": [
      {
        "TotalPrice": 0,
        "TotalPriceDiscount": 0,
        "UnitPrice": 0,
```

```
"Discount": 0.0,
"UnitPriceDiscount": 0,
"ChargeUnit": "xx"
},
{
  "ClusterId": "xx",
  "RequestId": "xx",
  "InstanceIds": [
    "cynosdbmysql-ins-m3hy"
  ],
  "InstanceRealTotalPrice": 0,
  "StorageRealTotalPrice": 0
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description

FailedOperation.BatchGetInstanceError	Batch query failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidZoneIdError	Invalid AZ
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Instance APIs

CloseClusterPasswordComplexity

Last updated : 2023-08-23 14:23:04

1. API Description

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

This API is used to disable the password complexity for a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CloseClusterPasswordComplexity.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterIds.N	Yes	Array of String	Cluster IDs in array

3. Output Parameters

--	--	--

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 Disabling the password complexity for a cluster

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CloseClusterPasswordComplexity<common request parameters>{ "ClusterIds": [ "cynosdbmysql-bzxxrmtq" ] }
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

CopyClusterPasswordComplexity

Last updated : 2023-08-23 14:23:03

1. API Description

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

This API is used to replicate the password complexity for a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CopyClusterPasswordComplexity.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterIds.N	Yes	Array of String	A parameter used to replicate the array of cluster IDs
SourceClusterId	Yes	String	Cluster ID

3. Output Parameters

--	--	--

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 Replicating the password complexity for a cluster

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CopyClusterPasswordComplexity<common request parameters>{ "ClusterIds": [ "cynosdbmysql-bzxxrmtq" ], "SourceClusterId": "cynosdbmysql-bzxxxxxxx" }
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeClusterDetail

Last updated : 2024-07-19 11:16:34

1. API Description

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

This API is used to show the details of an instance.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
Detail	CynosdbClusterDetail	Cluster details

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 集群信息描述

集群信息描述

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterDetail
<common request parameters>

{
  "ClusterId": "cynosdbpg-5804k48e"
}
```

Output Example

```
{
  "Response": {
    "Detail": {
      "ClusterId": "abc",
      "ClusterName": "abc",
      "Region": "abc",
      "Zone": "abc",
      "PhysicalZone": "abc",
      "Status": "abc",
      "StatusDesc": "abc",
      "ServerlessStatus": "abc",
      "StorageId": "abc",
      "Storage": 0,
      "MaxStorageSize": 0,
      "MinStorageSize": 0,
      "StoragePayMode": 0,
      "VpcName": "abc",
      "VpcId": "abc",
      "SubnetName": "abc",
```

```
"SubnetId": "abc",
"Charset": "abc",
"CreateTime": "abc",
"DbType": "abc",
"DbMode": "abc",
"DbVersion": "abc",
"StorageLimit": 0,
"UsedStorage": 0,
"Vip": "abc",
"Vport": 0,
"RoAddr": [
{
"IP": "abc",
"Port": 0
}
],
"Ability": {
"IsSupportSlaveZone": "abc",
"NonSupportSlaveZoneReason": "abc",
"IsSupportRo": "abc",
"NonSupportRoReason": "abc"
},
"CynosVersion": "abc",
"BusinessType": "abc",
"HasSlaveZone": "abc",
"IsFreeze": "abc",
"Tasks": [
{
"TaskId": 0,
"TaskType": "abc",
"TaskStatus": "abc",
"ObjectId": "abc",
"ObjectType": "abc"
}
],
"MasterZone": "abc",
"SlaveZones": [
"abc"
],
"InstanceSet": [
{
"InstanceId": "abc",
"InstanceName": "abc",
"InstanceType": "abc",
"InstanceStatus": "abc",
"InstanceStatusDesc": "abc",
"InstanceCpu": 0,
```

```
"InstanceMemory": 0,
"InstanceStorage": 0,
"InstanceRole": "abc",
"MaintainStartTime": 0,
"MaintainDuration": 0,
"MaintainWeekDays": [
  "abc"
],
"ServerlessStatus": "abc"
},
],
"PayMode": 0,
"PeriodEndTime": "abc",
"ProjectID": 0,
"ResourceTags": [
{
  "TagKey": "abc",
  "TagValue": "abc"
}
],
"ProxyStatus": "abc",
"LogBin": "abc",
"IsSkipTrade": "abc",
"PitrType": "abc",
"IsOpenPasswordComplexity": "abc",
"NetworkStatus": "abc",
"ResourcePackages": [
{
  "PackageId": "abc",
  "PackageType": "abc"
}
],
"RenewFlag": 0
},
"RequestId": "abc"
}
```

5. Developer Resources

SDK

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

- [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.CamSigAndAuthError	Authentication failed. Please try again later. If the problem persists, please contact customer service.
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.SystemError	Internal system error.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.ClusterNotFound	No cluster found.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.

InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
OperationDenied.VersionNotSupportError	Serverless is not supported on this version.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeClusterPasswordComplexity

Last updated : 2023-08-23 14:23:03

1. API Description

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

This API is used to query the details of password complexity for a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterPasswordComplexity.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
ValidatePasswordDictionary	ParamInfo	Data dictionary parameter Note: This field may return

		null, indicating that no valid values can be obtained.
ValidatePasswordLength	ParamInfo	The length of the password Note: This field may return null, indicating that no valid values can be obtained.
ValidatePasswordMixedCaseCount	ParamInfo	Number of case-sensitive characters Note: This field may return null, indicating that no valid values can be obtained.
ValidatePasswordNumberCount	ParamInfo	Number of digits Note: This field may return null, indicating that no valid values can be obtained.
ValidatePasswordPolicy	ParamInfo	Password level Note: This field may return null, indicating that no valid values can be obtained.
ValidatePasswordSpecialCharCount	ParamInfo	Number of symbols Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the details of password complexity for a cluster

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DescribeAccountPrivileges&ClusterId=cynosdbmysql-xxxxxxx&Host=xxx&AccountName=xxx&Db=xxx&Type=table&TableName=xx<common request parameters>cynosdbmysql-bzxxrmtq" }
```

Output Example

```
{ "Response": { "RequestId": "7613eed6-5eb5-4d17-ae69-dd93c44d7ad4", "ValidatePasswordDictionary": { "CurrentValue": "", "Default": "", "Description": "The dictionary words that validate_password uses for checking passwords.", "EnumValue": [], "IsGlobal": 0, "MatchType": "", "MatchValue": "", "Max": "0", "Min": "0", "ModifiableInfo": {}, "NeedReboot": 0, "ParamName": "validate_password_txsql_dictionary", "ParamType": "string" }, "ValidatePasswordLength": { "CurrentValue": "0", "Default": "8", "Description": "The minimum number of characters that validate_password requires passwords to have.", "EnumValue": [], "IsGlobal": 0, "MatchType": "", "MatchValue": "", "Max": "256", "Min": "8", "ModifiableInfo": {}, "NeedReboot": 0, "ParamName": "validate_password_length", "ParamType": "integer" }, "ValidatePasswordMixedCaseCount": { "CurrentValue": "0", "Default": "1", "Description": "The
```

```

minimum number of lowercase and uppercase characters that validate_password requires passwords to have if the password policy is MEDIUM or stronger.", "EnumValue": [], "IsGlobal": 0, "MatchType": "", "MatchValue": "", "Max": "50", "Min": "1", "ModifiableInfo": {}, "NeedReboot": 0, "ParamName": "validate_password_mixed_case_count", "ParamType": "integer" }, "ValidatePasswordNumberCount": { "CurrentValue": "0", "Default": "1", "Description": "The minimum number of numeric (digit) characters that validate_password requires passwords to have if the password policy is MEDIUM or stronger. ", "EnumValue": [], "IsGlobal": 0, "MatchType": "", "MatchValue": "", "Max": "50", "Min": "1", "ModifiableInfo": {}, "NeedReboot": 0, "ParamName": "validate_password_number_count", "ParamType": "integer" }, "ValidatePasswordPolicy": { "CurrentValue": "LOW", "Default": "MEDIUM", "Description": "The password policy enforced by validate_password.", "EnumValue": [ "MEDIUM", "STRONG" ], "IsGlobal": 0, "MatchType": "", "MatchValue": "", "Max": "2", "Min": "0", "ModifiableInfo": {}, "NeedReboot": 0, "ParamName": "validate_password_policy", "ParamType": "enum" }, "ValidatePasswordSpecialCharCount": { "CurrentValue": "0", "Default": "1", "Description": "The minimum number of nonalphanumeric characters that validate_password requires passwords to have if the password policy is MEDIUM or stronger. "The minimum number of nonalphanumeric characters that validate_password requires passwords to have if the password policy is MEDIUM or stronger. ", "MatchValue": "", "Max": "50", "Min": "1", "ModifiableInfo": {}, "NeedReboot": 0, "ParamName": "validate_password_special_char_count", "ParamType": "integer" } } }

```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.GetOssInfoError	Failed to query the details of a read-write instance
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyClusterPasswordComplexity

Last updated : 2023-08-23 14:23:01

1. API Description

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

This API is used to modify or enable the password complexity for a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterPasswordComplexity.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ValidatePasswordLength	Yes	Integer	Password length
ValidatePasswordMixedCaseCount	Yes	Integer	Number of letters
ValidatePasswordSpecialCharCount	Yes	Integer	Number of symbols
ValidatePasswordNumberCount	Yes	Integer	Number of digits

ValidatePasswordPolicy	Yes	String	Password strength. Valid values: MEDIUM , STRONG .
ValidatePasswordDictionary.N	No	Array of String	Data dictionary

3. Output Parameters

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 or enabling the password complexity for a cluster

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: ModifyClusterPasswordComplexity<common request parameters>{ "ValidatePasswordLength": 0, "ValidatePasswordMixedCaseCount": 0, "ValidatePasswordDictionary": [ "admin" ], "ClusterId": "cynosdbmysql-abcdxxxx", "ValidatePasswordNumberCount": 0, "ValidatePasswordSpecialCharCount": 0, "ValidatePasswordPolicy": "MEDIUM" }
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

OpenClusterPasswordComplexity

Last updated : 2023-08-23 14:23:00

1. API Description

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

This API is used to enable the password complexity for a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: OpenClusterPasswordComplexity.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ValidatePasswordLength	Yes	Integer	Password length
ValidatePasswordMixedCaseCount	Yes	Integer	Number of letters
ValidatePasswordSpecialCharCount	Yes	Integer	Number of symbols
ValidatePasswordNumberCount	Yes	Integer	Number of digits

ValidatePasswordPolicy	Yes	String	Password strength. Valid values: MEDIUM , STRONG .
ValidatePasswordDictionary.N	No	Array of String	Data dictionary

3. Output Parameters

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 Enabling the password complexity for a cluster

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: OpenClusterPasswordComplexity<common request parameters>{ "ValidatePasswordLength": 0, "ValidatePasswordMixedCaseCount": 0, "ValidatePasswordDictionary": [ "admin" ], "ClusterId": "cynosdbmysql-abcdxxxx", "ValidatePasswordNumberCount": 0, "ValidatePasswordSpecialCharCount": 0, "ValidatePasswordPolicy": "MEDIUM" }
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

UpgradeClusterVersion

Last updated : 2023-08-23 14:23:00

1. API Description

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

This API is used to upgrade the kernel version of a TDSQL-C for MySQL cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpgradeClusterVersion.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
CynosVersion	Yes	String	Kernel version
UpgradeType	Yes	String	Upgrade time type. Valid values: <code>upgradeImmediate</code> , <code>upgradeInMaintain</code> .

3. Output Parameters

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

4. Example

Example1 Upgrading TDSQL-C for MySQL kernel version

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=UpgradeClusterVersion&ClusterId=xxx&CynosVersion=2.0.0&UpgradeType=upgradeImmediate<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSecurityGroupDetailFailed	Failed to get the security group information.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.ListInstanceFailed	Failed to query instances by security group.
InternalError.OperateWanFail	Public network operation failed.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.QueryDatabaseFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameter.IsolateNotAllowed	The current instance cannot be isolated.
InvalidParameterValue.AccountExist	The account already exists.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.FlowNotFound	Taskflow ID doesn't exist.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InstanceNotFound	The instance does not exist.

InvalidParameterValue.InternalAccount	The operation is not allowed for system account.
InvalidParameterValue.InvalidDBVersion	Invalid instance version.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.ClusterInstanceLimit	The node count in the cluster exceeds the maximum limit.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.NotRealNameAccount	Users who haven't completed identity verification can't make purchases.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

UpgradeInstance

Last updated : 2023-08-23 14:22:59

1. API Description

Domain name for API request: cynosdb.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: UpgradeInstance.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
Cpu	Yes	Integer	Database CPU
Memory	Yes	Integer	Database memory in GB
UpgradeType	Yes	String	Upgrade type. Valid values: upgradeImmediate, upgradeInMaintain
StorageLimit	No	Integer	This parameter has been disused.
AutoVoucher	No	Integer	Whether to automatically select a voucher. 1: yes; 0: no. Default

			value: 0
DbType	No	String	This parameter has been disused.
DealMode	No	Integer	Transaction mode. Valid values: 0 (place and pay for an order), 1 (place an order)
UpgradeMode	No	String	Valid values: NormalUpgrade (Normal mode), FastUpgrade (QuickChange). If the system detects that the configuration modification process will cause a momentary disconnection, the process will be terminated.

3. Output Parameters

Parameter Name	Type	Description
TransId	String	Freezing transaction ID Note: this field may return null, indicating that no valid values can be obtained.
BigDealIds	Array of String	Big order ID. Note: this field may return null, indicating that no valid values can be obtained.
DealNames	Array of String	Order ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Upgrading an instance

Input Example

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

{
```



```
"InstanceId": "cynosdbmysql-ins-n7ocdslw",
"UpgradeType": "upgradeImmediate",
"Cpu": "2",
"Memory": "4"
}
```

Output Example

```
{
  "Response": {
    "BigDealIds": [
      "xx"
    ],
    "RequestId": "165202",
    "TranId": "xx",
    "DealNames": [
      "xx"
    ]
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateOrder	Failed to create the order and make a payment.
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
FailedOperation.TradeCreateOrderError	Failed to create the order and make a payment. Please try again later. If the problem persists, please contact customer service.
InternalError.SystemError	Internal system error.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.ParamError	Incorrect parameter.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

SetRenewFlag

Last updated : 2023-08-23 14:23:00

1. API Description

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

This API is used to set auto-renewal for 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: SetRenewFlag.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ResourceIds.N	Yes	Array of String	ID of the instance to be manipulated
AutoRenewFlag	Yes	Integer	Auto-renewal flag. 0: normal renewal, 1: auto-renewal, 2: no renewal.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Count	Integer	Number of successfully manipulated instances
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting the auto-renewal flag

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=SetRenewFlag
&ResourceIds.0=cynosdbmysql-ins-xxxxxxx
&AutoRenewFlag=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Count": 1,
    "RequestId": 123123123
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError	Internal error.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.QueryDatabaseFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.ClusterNotFound	No cluster found.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.

UnauthorizedOperation.PermissionDenied	CAM authentication failed.
--	----------------------------

OfflineCluster

Last updated : 2023-07-06 16:46:04

1. API Description

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

This API is used to deactivate a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: OfflineCluster.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

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 Deactivating a cluster

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=OfflineCluster
&ClusterId=cynosdbmysql-bzxxrmtq
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyMaintainPeriodConfig

Last updated : 2023-08-23 14:23:01

1. API Description

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

This API is used to modify the maintenance time 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: ModifyMaintainPeriodConfig.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
MaintainStartTime	Yes	Integer	Maintenance start time in seconds. For example, 03:00 AM is represented by 10800
MaintainDuration	Yes	Integer	Maintenance duration in seconds. For example, one hour is represented by 3600
MaintainWeekDays.N	Yes	Array of String	Maintenance days of the week. Valid values: [Mon, Tue, Wed, Thu, Fri, Sat, Sun].

3. Output Parameters

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

4. Example

Example1 Modifying the instance maintenance window

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ModifyMaintainPeriodConfig
&InstanceId=cynosdbmysql-ins-n7ocdslw
&MaintainStartTime=3600
&MaintainDuration=3600
&MaintainWeekDays.0=Mon
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "165202"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

IsolateInstance

Last updated : 2023-08-23 14:23:01

1. API Description

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

This API is used to isolate 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: IsolateInstance.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
InstanceIdList.N	Yes	Array of String	Instance ID array
DbType	No	String	This parameter has been disused.

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Task flow ID
DealNames	Array of String	Order ID for isolated instance (prepaid instance) 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 Isolating an instance

Input Example

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

{
  "InstanceIdList": [
    "cynosdbmysql-ixgbd0di"
  ],
  "ClusterId": "cynosdbmysql-ins-bzkxxrmt"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "DealNames": [
      "23456"
    ],
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
FailedOperation.TradeCreateOrderError	Failed to create the order and make a payment. Please try again later. If the problem persists, please contact customer service.
InvalidParameter.IsolateNotAllowed	The current instance cannot be isolated.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.

OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
ResourceNotFound.ResourceError	The resource corresponding to the parameter does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

IsolateCluster

Last updated : 2023-08-23 14:23:02

1. API Description

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

This API is used to isolate a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: IsolateCluster.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
DbType	No	String	This parameter has been disused.

3. Output Parameters

Parameter Name	Type	Description

FlowId	Integer	Task flow ID Note: this field may return null, indicating that no valid values can be obtained.
DealNames	Array of String	Refund order ID 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 Isolating a cluster

Input Example

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

{
  "ClusterId": "cynosdbmysql-bzxxrmtq"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123",
    "DealNames": [
      "123"
    ]
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.TradeCreateOrderError	Failed to create the order and make a payment. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.ClusterNotFound	No cluster found.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidRegionIdError	The region is invalid.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.

ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeMaintainPeriod

Last updated : 2023-08-23 14:23:02

1. API Description

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

This API is used to query the instance maintenance window.

A maximum of 1000 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: DescribeMaintainPeriod.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
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
MaintainWeekDays	Array of	Maintenance days of the week

	String	
MaintainStartTime	Integer	Maintenance start time in seconds
MaintainDuration	Integer	Maintenance duration in seconds
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the maintenance time

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DescribeMaintainPeriod
&InstanceId=cynosdbmysql-ins-n7ocdslw
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "165202",
    "MaintainWeekDays": [
      "Mon",
      "Tue"
    ],
    "MaintainStartTime": "3600",
    "MaintainDuration": "3600"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.ParamError	Incorrect parameter.
OperationDenied.CamDeniedError	Failed to verify permissions
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeInstanceSpecs

Last updated : 2023-08-23 14:23:02

1. API Description

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

This API is used to query instance specifications.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeInstanceSpecs.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
DbType	Yes	String	Database type. Valid values: MYSQL
IncludeZoneStocks	No	Boolean	Whether to return the AZ information.

3. Output Parameters

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

InstanceSpecSet	Array of InstanceSpec	Specification information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the specification information of a purchasable instance.

This example shows you how to query the specification information of a purchasable instance.

Input Example

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

{
  "DbType": "MYSQL"
}
```

Output Example

```
{
  "Response": {
    "InstanceSpecSet": [
      {
        "MaxStorageSize": 1,
        "ZoneStockInfos": [
          {
            "HasStock": true,
            "StockCount": 0,
            "Zone": "ap-guangzhou-3"
          }
        ],
        "MachineType": "common",
        "StockCount": 0,
        "HasStock": true,
        "Memory": 1,
        "MinStorageSize": 1,
        "MaxIoBandWidth": 0,

```

```
"Cpu": 1,
"MaxIops": 0
},
{
  "MaxStorageSize": 1,
  "ZoneStockInfos": [
    {
      "HasStock": true,
      "StockCount": 0,
      "Zone": "ap-guangzhou-3"
    }
  ],
  "MachineType": "common",
  "StockCount": 0,
  "HasStock": true,
  "Memory": 1,
  "MinStorageSize": 1,
  "MaxIoBandWidth": 0,
  "Cpu": 1,
  "MaxIops": 0
}
],
"RequestId": "test-requestid"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeClusters

Last updated : 2023-08-23 14:23:02

1. API Description

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

This API is used to the list of clusters.

A maximum of 1000 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusters.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
DbType	No	String	Engine type. Currently, <code>MYSQL</code> is supported.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100
Offset	No	Integer	Record offset. Default value: 0
OrderBy	No	String	Sort by field. Valid values: - CREATETIME: creation time - PERIODENDTIME: expiration time

OrderByType	No	String	Sorting order. Valid values: • ASC: ascending • DESC: descending
Filters.N	No	Array of QueryFilter	Filter. If more than one filter exists, the logical relationship between these filters is <code>AND</code> .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of clusters
ClusterSet	Array of CynosdbCluster	Cluster 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 clusters

Input Example

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

{
  "DbType": "MYSQL",
  "Limit": "20",
  "Filters": [
    {
      "Values": [
        "cynosdbpg-ins-bzkxxrmt"
      ],
      "Names": [
        "InstanceId"
```

```
],  
  "ExactMatch": "true"  
}  
],  
  "Offset": "0"  
}
```

Output Example

```
{  
  "Response": {  
    "TotalCount": 597,  
    "ClusterSet": [  
      {  
        "ServerlessStatus": "xx",  
        "RenewFlag": 0,  
        "Zone": "xx",  
        "InstanceNum": 1,  
        "ClusterId": "xx",  
        "DbVersion": "xx",  
        "Storage": 0,  
        "StorageId": "xx",  
        "ProcessingTask": "xx",  
        "Status": "xx",  
        "PhysicalZone": "xx",  
        "UpdateTime": "xx",  
        "VpcId": "xx",  
        "Ability": [  
          {  
            "NonsupportSlaveZoneReason": "xx",  
            "IsSupportSlaveZone": "xx",  
            "IsSupportRo": "xx",  
            "NonsupportRoReason": "xx"  
          }  
        ],  
        "StorageLimit": 30000,  
        "SlaveZones": [  
          "xx"  
        ],  
        "DbMode": "xx",  
        "SubnetId": "xx",  
        "MinStorageSize": 10,  
        "MaxStorageSize": 30000,  
        "IsFreeze": "xx",  
        "Region": "xx",  
        "MasterZone": "xx",  
      }  
    ]  
  }  
}
```

```
"PayMode": 1,
"PeriodEndTime": "xx",
"ResourceTags": [
{
"TagKey": "xx",
"TagValue": "xx"
}
],
"CynosVersion": "xx",
"StatusDesc": "xx",
"StoragePayMode": 0,
"BusinessType": "xx",
"Tasks": [
{
"ObjectType": "xx",
"TaskStatus": "xx",
"ObjectId": "xx",
"TaskId": 0,
"TaskType": "xx"
}
],
"HasSlaveZone": "xx",
"ClusterName": "xx",
"ProjectID": 0,
"Uin": "xx",
"DbType": "xx",
"Vip": "xx",
"AppId": 251007582,
"OrderSource": "xx",
"Vport": 3306,
"CreateTime": "xx",
"NetAddr": [
{
"WanStatus": "xx",
>Description": "xx",
"UniqVpcId": "xx",
"WanDomain": "xx",
"WanPort": 0,
"Vip": "xx",
"UniqSubnetId": "xx",
"NetType": "xx",
"WanIP": "xx",
"Vport": 3306
},
{
"WanStatus": "xx",
>Description": "xx",
```

```
"UniqVpcId": "xx",
"WanDomain": "xx",
"WanPort": 0,
"Vip": "xx",
"UniqSubnetId": "xx",
"NetType": "xx",
"WanIP": "xx",
"Vport": 3306
}
],
"RequestId": "xx"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

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

FailedOperation.CamCheckResourceError	Failed to get permissions. Please try again later. If the problem persists, please contact customer service.
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.SystemError	Internal system error.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamBothSetError	These two parameters cannot be set at the same time.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

CreateClusters

Last updated : 2023-08-23 14:23:03

1. API Description

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

This API is used to create a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateClusters.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Zone	Yes	String	AZ
VpcId	Yes	String	VPC ID
SubnetId	Yes	String	Subnet ID
DbType	Yes	String	Database type. Valid values: MYSQL
DbVersion	Yes	String	Database version. Valid values:

			Valid values for <code>MYSQL</code> : 5.7 and 8.0
ProjectId	No	Integer	Project ID.
Cpu	No	Integer	It is required when <code>DbMode</code> is set to <code>NORMAL</code> or left empty. Number of CPU cores of normal instance
Memory	No	Integer	It is required when <code>DbMode</code> is set to <code>NORMAL</code> or left empty. Memory of a non-serverless instance in GB
Storage	No	Integer	This parameter has been deprecated. Storage capacity in GB
ClusterName	No	String	Cluster name, which can contain less than 64 letters, digits, or symbols (-_).
AdminPassword	No	String	Account password, which must contain 8-64 characters in at least three of the following four types: uppercase letters, lowercase letters, digits, and symbols (~!@#%&*_+ = (){}[]:;<>.,?/).
Port	No	Integer	Port. Valid range: [0, 65535). Default value: 3306
PayMode	No	Integer	Billing mode. <code>0</code> : pay-as-you-go; <code>1</code> : monthly subscription. Default value: <code>0</code>
Count	No	Integer	Number of purchased clusters. Valid range: [1,50]. Default value: 1
RollbackStrategy	No	String	Rollback type: noneRollback: no rollback; snapRollback: rollback by snapshot; timeRollback: rollback by time point
RollbackId	No	Integer	<code>snapshotId</code> for snapshot rollback or <code>queryId</code> for time point rollback. 0 indicates to determine whether the time point is valid
OriginalClusterId	No	String	The source cluster ID passed in during rollback to find the source <code>poolId</code>
ExpectTime	No	String	Specified time for time point rollback or snapshot time for snapshot rollback
ExpectTimeThresh	No	Integer	This parameter has been deprecated. Specified allowed time range for time point rollback

StorageLimit	No	Integer	Storage upper limit of normal instance in GB If <code>DbType</code> is <code>MYSQL</code> and the storage billing mode is monthly subscription, the parameter value can't exceed the maximum storage corresponding to the CPU and memory specifications.
InstanceCount	No	Integer	Number of Instances. Valid range: (0,16]
TimeSpan	No	Integer	Purchase duration of monthly subscription plan
TimeUnit	No	String	Duration unit of monthly subscription. Valid values: <code>s</code> , <code>d</code> , <code>m</code> , <code>y</code>
AutoRenewFlag	No	Integer	Whether auto-renewal is enabled for monthly subscription plan. Default value: <code>0</code>
AutoVoucher	No	Integer	Whether to automatically select a voucher. <code>1</code> : yes; <code>0</code> : no. Default value: <code>0</code>
HaCount	No	Integer	Number of instances (this parameter has been disused and is retained only for compatibility with existing instances)
OrderSource	No	String	Order source
ResourceTags.N	No	Array of Tag	Array of tags to be bound to the created cluster
DbMode	No	String	Database type Valid values when <code>DbType</code> is <code>MYSQL</code> (default value: <code>NORMAL</code>): <code>NORMAL</code> <code>SERVERLESS</code>
MinCpu	No	Float	This parameter is required if <code>DbMode</code> is <code>SERVERLESS</code> . Minimum number of CPU cores. For the value range, see the returned result of <code>DescribeServerlessInstanceSpecs</code> .
MaxCpu	No	Float	This parameter is required if <code>DbMode</code> is <code>SERVERLESS</code> . Maximum number of CPU cores. For the value range, see the returned result of <code>DescribeServerlessInstanceSpecs</code> .
AutoPause	No	String	This parameter specifies whether the cluster will be

			automatically paused if <code>DbMode</code> is <code>SERVERLESS</code> . Valid values: - yes - no Default value: yes
AutoPauseDelay	No	Integer	This parameter specifies the delay for automatic cluster pause in seconds if <code>DbMode</code> is <code>SERVERLESS</code> . Value range: [600,691200] Default value: 600
StoragePayMode	No	Integer	The billing mode of cluster storage. Valid values: 0 (pay-as-you-go), 1 (monthly subscription). Default value: 0 . If <code>DbType</code> is <code>MYSQL</code> and the billing mode of cluster compute is pay-as-you-go (or the <code>DbMode</code> is <code>SERVERLESS</code>), the billing mode of cluster storage must be pay-as-you-go. Clusters with storage billed in monthly subscription can't be cloned or rolled back.
SecurityGroupIds.N	No	Array of String	Array of security group IDs
AlarmPolicyIds.N	No	Array of String	Array of alarm policy IDs
ClusterParams.N	No	Array of ParamItem	Array of parameters. Valid values: <code>character_set_server</code> (utf8 latin1 gbk utf8mb4), <code>lower_case_table_names</code> . 0: case-sensitive; 1: case-insensitive).
DealMode	No	Integer	Transaction mode. Valid values: 0 (place and pay for an order), 1 (place an order)
ParamTemplateId	No	Integer	Parameter template ID, which can be obtained by querying parameter template information "DescribeParamTemplates"
SlaveZone	No	String	Multi-AZ address
InstanceInitInfos.N	No	Array of InstanceInitInfo	Instance initialization configuration information, which is used to select instances with different specifications when purchasing a cluster.

3. Output Parameters

Parameter Name	Type	Description
TranId	String	Freezing transaction ID Note: This field may return null, indicating that no valid values can be obtained.
DealNames	Array of String	Order ID Note: This field may return null, indicating that no valid values can be obtained.
ResourceIds	Array of String	List of resource IDs (This field has been deprecated. You need to use <code>dealNames</code> in the <code>DescribeResourcesByDealName</code> API to get resource IDs.) Note: This field may return null, indicating that no valid values can be obtained.
ClusterIds	Array of String	List of cluster IDs (This field has been deprecated. You need to use <code>dealNames</code> in the <code>DescribeResourcesByDealName</code> API to get cluster IDs.) Note: This field may return null, indicating that no valid values can be obtained.
BigDealIds	Array of String	Big order ID 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 cluster

This example shows you how to create a cluster.

Input Example

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

{
  "Count": 1,
  "StoragePayMode": "0",
```

```
"VpcId": "vpc-1ptuei0b",
"Zone": "ap-guangzhou-3",
"AdminPassword": "passwd@admin",
"DbType": "MYSQL",
"ProjectId": "0",
"DbVersion": "10.0",
"Storage": 100,
"PayMode": "0",
"ClusterName": "newInstance",
"StorageLimit": "100",
"RollbackStrategy": "noneRollback",
"Memory": "4",
"SubnetId": "subnet-1tmw9t4o",
"Cpu": 2,
"HaCount": "1"
}
```

Output Example

```
{
  "Response": {
    "ResourceIds": [
      "cynosdbmysql-ins-67rmucgk"
    ],
    "RequestId": "132075",
    "TranId": "20190522160000003106844584180998",
    "ClusterIds": [
      "cynosdbmysql-sls-9nts65r2"
    ],
    "BigDealIds": [
      "xxx"
    ],
    "DealNames": [
      "20190522112283"
    ]
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateOrder	Failed to create the order and make a payment.
FailedOperation.InsufficientBalance	Insufficient account balance
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
FailedOperation.QuerySpecBySpecCodeError	Failed to query specifications.
FailedOperation.TradeCreateOrderError	Failed to create the order and make a payment. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.

InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InvalidDBVersion	Invalid instance version.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.InvalidZoneldError	Invalid AZ
InvalidParameterValue.ProjectIdNotFound	The <code>ProjectId</code> was not found.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.InsufficientBalanceError	Insufficient account balance.
OperationDenied.UserNotAuthenticatedError	You need to verify your identity to make a purchase.
UnauthorizedOperation.NotRealNameAccount	Users who haven't completed identity verification can't make purchases.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

AddInstances

Last updated : 2023-08-23 14:23:04

1. API Description

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

This API is used to add an instance in a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: AddInstances.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Cpu	Yes	Integer	Number of CPU cores
Memory	Yes	Integer	Memory in GB
ReadOnlyCount	Yes	Integer	Number of added read-only instances. Value range: (0,16].
InstanceGrpId	No	String	Instance group ID, which will be used when you add

			an instance in an existing RO group. If this parameter is left empty, an RO group will be created. But it is not recommended to pass in this parameter for the current version, as this version has been disused.
VpcId	No	String	VPC ID
SubnetId	No	String	Subnet ID. If <code>VpcId</code> is set, <code>SubnetId</code> is required.
Port	No	Integer	The port used when adding an RO group. Value range: [0,65535).
InstanceName	No	String	Instance name. String length range: [0,64).
AutoVoucher	No	Integer	Whether to automatically select a voucher. 1: yes; 0: no. Default value: 0
DbType	No	String	Database type. Valid values: MYSQL
OrderSource	No	String	Order source. String length range: [0,64).
DealMode	No	Integer	Transaction mode. Valid values: <code>0</code> (place and pay for an order), <code>1</code> (place an order)
ParamTemplateId	No	Integer	Parameter template ID
InstanceParams.N	No	Array of ModifyParamItem	Parameter list, which is valid only if <code>InstanceParams</code> is passed in to <code>ParamTemplateId</code> .
SecurityGroupIds.N	No	Array of String	Security group ID. You can specify an security group when creating a read-only instance.

3. Output Parameters

Parameter Name	Type	Description
TranId	String	Freezing transaction. One freezing transaction ID is generated each time an instance is added. Note: this field may return null, indicating that no valid values can be obtained.

DealNames	Array of String	Pay-as-You-Go order ID. Note: this field may return null, indicating that no valid values can be obtained.
ResourceIds	Array of String	List of IDs of delivered resources Note: this field may return null, indicating that no valid values can be obtained.
BigDealIds	Array of String	Big order ID. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding an instance

This example shows you how to add a read-only instance.

Input Example

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

{
  "ReadOnlyCount": "1",
  "VpcId": "vpc-1ptuei0b",
  "ClusterId": "cynosdbmysql-6gtlgm5l",
  "Memory": "4",
  "SubnetId": "subnet-1tmw9t4o",
  "Cpu": "2"
}
```

Output Example

```
{
  "Response": {
    "TranId": "abc",
    "DealNames": [
      "abc"
    ],
    "ResourceIds": [
```

```
"abc"
],
"BigDealIds": [
  "abc"
],
"RequestId": "abc"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.

FailedOperation.TradeCreateOrderError	Failed to create the order and make a payment. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
OperationDenied.InsufficientBalanceError	Insufficient account balance.
OperationDenied.UserNotAuthenticatedError	You need to verify your identity to make a purchase.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

OfflineInstance

Last updated : 2023-07-06 16:46:03

1. API Description

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

This API is used to deactivate 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: OfflineInstance.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
InstanceIdList.N	Yes	Array of String	Instance ID array

3. Output Parameters

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

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 Isolating an instance

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=OfflineInstance
&ClusterId=cynosdbmysql-bzxxrmtq
&InstanceIdList.0=cynosdbmysql-ins-7upukfpw
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.ParamError	Incorrect parameter.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
ResourceNotFound.ResourceError	The resource corresponding to the parameter does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeInstanceDetail

Last updated : 2023-08-23 14:23:02

1. API Description

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

This API is used to query instance details.

A maximum of 1000 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: DescribeInstanceDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
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
Detail	CynosdbInstanceDetail	Instance details

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

4. Example

Example1 Querying instance details

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DescribeInstanceDetail
&InstanceId=cynosdbmysql-ins-bzkxxrmt
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "175707",
    "Detail": {
      "ServerlessStatus": "resume",
      "RenewFlag": 0,
      "Zone": "ap-guangzhou-3",
      "DbVersion": "10.0",
      "Storage": 100,
      "Memory": 4,
      "MinCpu": 1.0,
      "MaxCpu": 2.0,
      "Charset": "utf8",
      "Status": "running",
      "UpdateTime": "2018-06-20 19:12:54",
      "VpcId": "vpc-1ptuei0b",
      "InstanceId": "cynosdbmysql-ins-bzkxxrmt",
      "ClusterId": "cynosdbmysql-cluster-5ne6bjyx",
      "CynosVersion": "2.0.12",
      "NetType": 1,
      "PeriodEndTime": "2018-07-20 19:17:16",
      "InstanceType": "rw",
      "ProjectId": 0,
      "Region": "ap-guangzhou",
      "PayMode": 0,
      "SubnetId": "subnet-1tmw9t4o",
      "StatusDesc": "Running",
      "InstanceName": "ahhahhhhh",
      "Cpu": 2,
```

```
"WanDomain": "",
"ClusterName": "cynosdbmysql-cluster-5ne6bjyx",
"InstanceRole": "master",
"Uin": "3374998458",
"DbType": "MYSQL",
"Vip": "10.0.1.2",
"AppId": 1251006243,
"Vport": 5432,
"CreateTime": "2018-06-20 19:12:54"
}
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CamSigAndAuthError	Authentication failed. Please try again later. If the problem persists, please contact customer service.

FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.CamDeniedError	Failed to verify permissions
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeClusterInstanceGrps

Last updated : 2023-08-23 14:23:03

1. API Description

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

This API is used to query instance groups.

A maximum of 1000 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: DescribeClusterInstanceGrps.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of instance groups

InstanceGrpInfoList	Array of CynosdbInstanceGrp	Instance group list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying instance groups

Input Example

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

{
  "ClusterId": "cynosdbmysql-oib3wx0i"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "InstanceGrpInfoList": [
      {
        "Status": "xx",
        "UpdateTime": "2020-09-22 00:00:00",
        "Tasks": [
          {
            "ObjectType": "xx",
            "TaskStatus": "xx",
            "ObjectId": "xx",
            "TaskId": 0,
            "TaskType": "xx"
          }
        ],
        "OldAddrInfo": {
          "Vip": "xx",
          "Vport": 0,
          "ReturnTime": "xx"
        }
      }
    ]
  }
}
```

```
},
"UniqVpcId": "xx",
"WanDomain": "xx",
"InstanceSet": [
{
"ServerlessStatus": "xx",
"WanStatus": "xx",
"RenewFlag": 0,
"Zone": "xx",
"DbVersion": "xx",
"Storage": 0,
"StorageId": "xx",
"Memory": 0,
"ProcessingTask": "xx",
"Status": "xx",
"PhysicalZone": "xx",
"UpdateTime": "2020-09-22 00:00:00",
"VpcId": "xx",
"MinCpu": 0.0,
"MaxCpu": 0.0,
"InstanceId": "xx",
"ClusterId": "xx",
"NetType": 0,
"IsFreeze": "xx",
"SubnetId": "xx",
"InstanceType": "xx",
"DestroyTime": "xx",
"IsolateTime": "2020-09-22 00:00:00",
"DestroyDeadlineText": "xx",
"ProjectId": 0,
"Region": "xx",
"PayMode": 0,
"PeriodEndTime": "2020-09-22 00:00:00",
"ResourceTags": [
{
"TagKey": "xx",
"TagValue": "xx"
}
],
"CynosVersion": "xx",
"StatusDesc": "xx",
"InstanceName": "xx",
"Cpu": 0,
"StoragePayMode": 0,
"BusinessType": "xx",
"Tasks": [
{
```



```
"ObjectType": "xx",
"TaskStatus": "xx",
"ObjectId": "xx",
"TaskId": 0,
"TaskType": "xx"
},
{
  "WanDomain": "xx",
  "ClusterName": "xx",
  "InstanceRole": "xx",
  "WanPort": 0,
  "Uin": "xx",
  "DbType": "xx",
  "Vip": "xx",
  "AppId": 0,
  "WanIP": "xx",
  "Vport": 0,
  "CreateTime": "2020-09-22 00:00:00"
},
{
  "WanPort": 0,
  "ClusterId": "xx",
  "DeletedTime": "2020-09-22 00:00:00",
  "WanStatus": "xx",
  "CreatedTime": "2020-09-22 00:00:00",
  "Vip": "xx",
  "UniqSubnetId": "xx",
  "InstanceGrpId": "xx",
  "AppId": 0,
  "WanIP": "xx",
  "Vport": 0,
  "Type": "xx",
  "NetServiceId": 0,
  "ProcessingTasks": [
    "xx"
  ]
},
{
  "RequestId": "xx"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeInstances

Last updated : 2023-08-23 14:23:02

1. API Description

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

This API is used to query the list of instances.

A maximum of 1000 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: DescribeInstances.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100
Offset	No	Integer	Record offset. Default value: 0
OrderBy	No	String	Sort by field. Valid values: - CREATETIME: creation time - PERIODENDTIME: expiration time
OrderByType	No	String	Sorting order. Valid values:

			• ASC: ascending • DESC: descending
Filters.N	No	Array of QueryFilter	Filter. If more than one filter exists, the logical relationship between these filters is <code>AND</code> .
DbType	No	String	Engine type. Currently, <code>MYSQL</code> is supported.
Status	No	String	Instance status. Valid values: creating running isolating isolated activating: Removing the instance from isolation offlining: Eliminating the instance offlined: Instance eliminated
InstanceIds.N	No	Array of String	Instance ID list

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of instances
InstanceSet	Array of CynosdbInstance	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 instance list

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

Input Example

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

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

```
{
  "Limit": 0,
  "Offset": 0,
  "OrderBy": "abc",
  "OrderByType": "abc",
  "Filters": [
    {
      "Names": [
        "abc"
      ],
      "Values": [
        "abc"
      ],
      "ExactMatch": true,
      "Name": "abc",
      "Operator": "abc"
    }
  ],
  "DbType": "abc",
  "Status": "abc",
  "InstanceIds": [
    "abc"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 0,
    "InstanceSet": [
      {
        "Uin": "abc",
        "AppId": 0,
        "ClusterId": "abc",
        "ClusterName": "abc",
        "InstanceId": "abc",
        "InstanceName": "abc",
        "ProjectId": 0,
        "Region": "abc",
        "Zone": "abc",
        "Status": "abc",

```

```
"StatusDesc": "abc",
"DbType": "abc",
"DbVersion": "abc",
"Cpu": 0,
"Memory": 0,
"Storage": 0,
"InstanceType": "abc",
"InstanceRole": "abc",
"UpdateTime": "2020-09-22 00:00:00",
"CreateTime": "2020-09-22 00:00:00",
"VpcId": "abc",
"SubnetId": "abc",
"Vip": "abc",
"Vport": 0,
"PayMode": 0,
"PeriodEndTime": "2020-09-22 00:00:00",
"DestroyDeadlineText": "abc",
"IsolateTime": "2020-09-22 00:00:00",
"NetType": 0,
"WanDomain": "abc",
"WanIP": "abc",
"WanPort": 0,
"WanStatus": "abc",
"DestroyTime": "abc",
"CynosVersion": "abc",
"ProcessingTask": "abc",
"RenewFlag": 0,
"MinCpu": 0,
"MaxCpu": 0,
"ServerlessStatus": "abc",
"StorageId": "abc",
"StoragePayMode": 0,
"PhysicalZone": "abc",
"BusinessType": "abc",
"Tasks": [
{
"TaskId": 0,
"TaskType": "abc",
"TaskStatus": "abc",
"ObjectId": "abc",
"ObjectType": "abc"
}
],
"IsFreeze": "abc",
"ResourceTags": [
{
"TagKey": "abc",
```

```
"TagValue": "abc"
},
],
"MasterZone": "abc",
"SlaveZones": [
  "abc"
],
"InstanceNetInfo": [
{
  "InstanceGroupType": "abc",
  "InstanceGroupId": "abc",
  "VpcId": "abc",
  "SubnetId": "abc",
  "NetType": 0,
  "Vip": "abc",
  "Vport": 0,
  "WanDomain": "abc",
  "WanIP": "abc",
  "WanPort": 0,
  "WanStatus": "abc"
}
]
}
],
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CamCheckResourceError	Failed to get permissions. Please try again later. If the problem persists, please contact customer service.
FailedOperation.CamSigAndAuthError	Authentication failed. Please try again later. If the problem persists, please contact customer service.
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.SystemError	Internal system error.
InternalError.UnknownError	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamBothSetError	These two parameters cannot be set at the same time.
InvalidParameterValue.ParamError	Incorrect parameter.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ActivateInstance

Last updated : 2023-08-23 14:23:04

1. API Description

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

This API is used to remove the isolation of an instance to make it accessible again.

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: ActivateInstance.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
InstanceIdList.N	Yes	Array of String	List of instance IDs in the format of <code>cynosdbmysql-ins-n7ocdslw</code> as displayed in the TDSQL-C for MySQL console. You can use the instance list querying API to query the ID, i.e., the <code>InstanceId</code> value in the output parameters.

3. Output Parameters

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 Removing the isolation of an instance to make it accessible again

This example shows you how to remove the isolation of an instance to make it accessible again.

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ActivateInstance
&ClusterId=cynosdbmysql-bzxxrmtq
&InstanceIdList.0=cynosdbmysql-ins-7upukfpw
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": 123
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.PrePayPayModeError	This operation is not allowed for monthly-subscribed instances.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceNotFound.ResourceError	The resource corresponding to the parameter does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyInstanceName

Last updated : 2023-08-23 14:23:01

1. API Description

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

This API is used to modify instance name.

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: ModifyInstanceName.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
InstanceName	Yes	String	Instance name

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Modifying instance name

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ModifyInstanceName
&InstanceId=cynosdb-ins-dokydbam
&InstanceName=newName
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "148561"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyClusterName

Last updated : 2023-08-23 14:23:01

1. API Description

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

This API is used to modify cluster name.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterName.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ClusterName	Yes	String	Cluster name

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Modifying cluster name

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ModifyClusterName
&ClusterId=cynosdbpg-5804k48e
&ClusterName=newName
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "148561"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

SearchClusterTables

Last updated : 2023-08-23 14:23:00

1. API Description

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

This API is used to search the list of cluster data tables.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: SearchClusterTables.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Database	No	String	Database name
Table	No	String	Data table name
TableType	No	String	Data table type. Valid values: <code>view</code> : Only return to view, <code>base_table</code> : Only return to basic table, <code>all</code> : Return to view and table.

3. Output Parameters

Parameter Name	Type	Description
Tables	Array of DatabaseTables	Data table list Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Searching the list of cluster data tables

Input Example

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

{
  "ClusterId": "xxx",
  "Database": "xxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "176466",
    "Tables": []
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
OperationDenied.InstanceStatusLimitError	The instance is not running.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.

SearchClusterDatabases

Last updated : 2023-08-23 14:23:00

1. API Description

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

This API is used to search the list of cluster 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: SearchClusterDatabases.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	The cluster ID
Database	No	String	Database name
MatchType	No	Integer	Whether to search exactly Valid values: <code>0</code> (fuzzy search), <code>1</code> (exact search). Default value: <code>0</code> .

3. Output Parameters

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

4. Example

Example1 Searching the list of cluster databases

Input Example

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

{
  "ClusterId": "xxx",
  "Database": "xxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "176466",
    "Databases": []
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.

RestartInstance

Last updated : 2023-08-23 14:23:00

1. API Description

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

This API is used to restart 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: RestartInstance.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
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	Async task ID

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

4. Example

Example1 Restarting an instance

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=RestartInstance
&InstanceId=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSecurityGroupDetailFailed	Failed to get the security group information.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.ListInstanceFailed	Failed to query instances by security group.
InternalError.OperateWanFail	Public network operation failed.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.QueryDatabaseFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameter.IsolateNotAllowed	The current instance cannot be isolated.
InvalidParameterValue.AccountExist	The account already exists.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.FlowNotFound	Taskflow ID doesn't exist.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InternalAccount	The operation is not allowed for system account.

InvalidParameterValue.InvalidDBVersion	Invalid instance version.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.ClusterInstanceLimit	The node count in the cluster exceeds the maximum limit.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.NotRealNameAccount	Users who haven't completed identity verification can't make purchases.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Multi-AZ APIs

SwitchClusterZone

Last updated : 2023-08-23 14:22:59

1. API Description

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

This API is used to switch to the replica AZ.

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: SwitchClusterZone.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
OldZone	Yes	String	The current AZ
NewZone	Yes	String	New AZ
IsInMaintainPeriod	No	String	Valid values: <code>yes</code> (execute during maintenance time), <code>no</code> (execute now)

3. Output Parameters

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

4. Example

Example1 Switching to the replica AZ

Input Example

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

{
  "ClusterId": "xx",
  "OldZone": "xx",
  "NewZone": "xx",
  "IsInMaintainPeriod": "yes"
}
```

Output Example

```
{
  "Response": {
    "FlowId": "123",
    "RequestId": "128046"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

RemoveClusterSlaveZone

Last updated : 2023-08-23 14:22:59

1. API Description

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

This API is used to delete the replica AZ.

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: RemoveClusterSlaveZone.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
SlaveZone	Yes	String	Replica AZ

3. Output Parameters

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

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

4. Example

Example1 Deleting the replica AZ

Input Example

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

{
  "ClusterId": "xx",
  "SlaveZone": "xx"
}
```

Output Example

```
{
  "Response": {
    "FlowId": "123",
    "RequestId": "128046"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyClusterSlaveZone

Last updated : 2023-08-23 14:22:59

1. API Description

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

This API is used to modify the replica AZ.

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: ModifyClusterSlaveZone.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
OldSlaveZone	Yes	String	Old replica AZ
NewSlaveZone	Yes	String	New replica AZ

3. Output Parameters

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

4. Example

Example1 Modifying the replica AZ

Input Example

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

{
  "ClusterId": "xx",
  "OldSlaveZone": "xx",
  "NewSlaveZone": "xxx"
}
```

Output Example

```
{
  "Response": {
    "FlowId": "123",
    "RequestId": "128046"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

AddClusterSlaveZone

Last updated : 2023-08-23 14:22:59

1. API Description

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

This API is used to add the replica AZ.

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: AddClusterSlaveZone.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
SlaveZone	Yes	String	Replica AZ

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Adding the replica AZ

Input Example

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

{
  "ClusterId": "xx",
  "SlaveZone": "xx"
}
```

Output Example

```
{
  "Response": {
    "FlowId": "123",
    "RequestId": "128046"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Account APIs

DeleteAccounts

Last updated : 2023-08-23 14:23:11

1. API Description

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

This API is used to delete an 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: DeleteAccounts.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Accounts.N	No	Array of InputAccount	Accounts in array, which contains <code>account</code> and <code>host</code> .

3. Output Parameters

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

4. Example

Example1 Deleting an account

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DeleteAccounts&ClusterId=cynosdbmysql-ixgbd0di&Accounts.0.AccountName=admin&Accounts.0.Host=myHost<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "120440"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.SystemError	Internal system error.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeAccountPrivileges

Last updated : 2023-08-23 14:23:11

1. API Description

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

This API is used to query the existing permissions of an 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: DescribeAccountPrivileges.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
AccountName	Yes	String	Account name
Host	Yes	String	Host
Db	Yes	String	When the database name is "", the value specified in <code>Type</code> and <code>TableName</code> will be ignored, indicating that the user's global permissions are being modified.

Type	Yes	String	Object type in a specified database. Valid values: <code>table</code> , <code>*</code> .
TableName	No	String	The database name can be specified when <code>Type</code> is 'table'.

3. Output Parameters

Parameter Name	Type	Description
Privileges	Array of String	The list of permissions, such as ["select","update","delete","create","drop","references","index","alter","show_db","create_tr
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locatir

4. Example

Example1 Querying the existing permissions of an account

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DescribeAccountPrivileges&ClusterId=cynosdbmysql-xxxxxxx&Host=xxx&AccountName=xxx&Db=xxx&Type=table&TableName=xx<common request parameters>
```

Output Example

```
{
  "Response": {
    "Privileges": [
      "select",
      "update",
      "delete",
      "create",
      "drop",
      "references",
      "index",
      "alter",
      "show_db",
      "create_tmp_table",
      "lock_tables",
```

```
"execute",
"create_view",
"show_view",
"create_routine",
"alter_routine",
"event",
"trigger"
],
"RequestId": "167350"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.

FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSecurityGroupDetailFailed	Failed to get the security group information.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.ListInstanceFailed	Failed to query instances by security group.
InternalError.OperateWanFail	Public network operation failed.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.QueryDatabaseFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameter.IsolateNotAllowed	The current instance cannot be isolated.
InvalidParameterValue.AccountExist	The account already exists.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.FlowNotFound	Taskflow ID doesn't exist.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InternalAccount	The operation is not allowed for system account.
InvalidParameterValue.InvalidDBVersion	Invalid instance version.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.

InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyAccountDescription

Last updated : 2023-08-23 14:23:11

1. API Description

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

This API is used to modify the descriptions of a database 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: ModifyAccountDescription.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AccountName	Yes	String	Database account name
Description	Yes	String	Database account description
ClusterId	Yes	String	Cluster ID
Host	No	String	Host. Default value: %

3. Output Parameters

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

4. Example

Example1 Modifying the descriptions of a database account

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ModifyAccountDescription&ClusterId=cynosdbpg-on5xw0ni&AccountName=admin&Description=admin<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamError	Incorrect parameter.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyAccountHost

Last updated : 2023-08-23 14:26:45

1. API Description

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

This API is used to modify the account host.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyAccountHost.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
NewHost	Yes	String	New host
Account	Yes	InputAccount	Account information

3. Output Parameters

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

4. Example

Example1 Modifying the account host

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ModifyAccountHost&ClusterId=cynosdbpg-on5xw0ni&Account.AccountName=admin&Account.Host=myHost&NewHost=xx<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSecurityGroupDetailFailed	Failed to get the security group information.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.ListInstanceFailed	Failed to query instances by security group.
InternalError.OperateWanFail	Public network operation failed.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.QueryDatabaseFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameter.IsolateNotAllowed	The current instance cannot be isolated.
InvalidParameterValue.AccountExist	The account already exists.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.FlowNotFound	Taskflow ID doesn't exist.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.

Error Code	Description
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InternalAccount	The operation is not allowed for system account.
InvalidParameterValue.InvalidDBVersion	Invalid instance version.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyAccountPrivileges

Last updated : 2023-08-23 14:23:10

1. API Description

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

This API is used to modify the 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: ModifyAccountPrivileges.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Account	Yes	InputAccount	Account information
GlobalPrivileges.N	No	Array of String	Array of global permissions
DatabasePrivileges.N	No	Array of DatabasePrivileges	Array of database permissions
TablePrivileges.N	No	Array of	Array of table permissions

[TablePrivileges](#)

3. Output Parameters

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

4. Example

Example1 Modifying the account permissions

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ModifyAccountPrivileges&ClusterId=xxx
&Account.AccountName=xxx&Account.Host=xx&GlobalPrivileges.0=xxx&<common request p
arameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "147706"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSecurityGroupDetailFailed	Failed to get the security group information.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.ListInstanceFailed	Failed to query instances by security group.
InternalError.OperateWanFail	Public network operation failed.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.QueryDatabaseFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameter.IsolateNotAllowed	The current instance cannot be isolated.
InvalidParameterValue.AccountExist	The account already exists.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.

InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.FlowNotFound	Taskflow ID doesn't exist.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InternalAccount	The operation is not allowed for system account.
InvalidParameterValue.InvalidDBVersion	Invalid instance version.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeAccounts

Last updated : 2023-08-23 14:23:11

1. API Description

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

This API is used to query database management 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: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
AccountNames.N	No	Array of String	List of accounts to be filtered
DbType	No	String	Database type. Valid values: MYSQL This parameter has been disused.

Hosts.N	No	Array of String	List of accounts to be filtered
Limit	No	Integer	Maximum entries returned per page
Offset	No	Integer	Offset
AccountRegular	No	String	Keywords for fuzzy search (match <code>AccountName</code> and <code>AccountHost</code> at the same time), which supports regex. The union results will be returned.

3. Output Parameters

Parameter Name	Type	Description
AccountSet	Array of Account	Database account list Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of accounts
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a database management account

This example shows you how to query a database management account.

Input Example

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

{
  "ClusterId": "cynosdbysql-on5xw0ni"
}
```

Output Example

```
{
  "Response": {
    "AccountSet": [
      {
        "AccountName": "abc",
        "Description": "abc",
        "CreateTime": "2020-09-22 00:00:00",
        "UpdateTime": "2020-09-22 00:00:00",
        "Host": "abc",
        "MaxUserConnections": 0
      }
    ],
    "TotalCount": 0,
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

CreateAccounts

Last updated : 2023-08-23 14:23:11

1. API Description

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

This API is used to create an 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: CreateAccounts.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Accounts.N	Yes	Array of NewAccount	List of new accounts

3. Output Parameters

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

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

4. Example

Example1 Creating account

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=CreateAccounts
&ClusterId=xxx
&Accounts.0.AccountName=xx
&Accounts.0.AccountPassword=xxx
&Accounts.0.Description=xxx
&Accounts.0.Host=xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "176669"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSecurityGroupDetailFailed	Failed to get the security group information.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.ListInstanceFailed	Failed to query instances by security group.
InternalError.OperateWanFail	Public network operation failed.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.QueryDatabaseFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameter	Parameter error.
InvalidParameter.IsolateNotAllowed	The current instance cannot be isolated.
InvalidParameterValue.AccountAlreadyExistError	The account already exists.
InvalidParameterValue.AccountExist	The account already exists.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.

InvalidParameterValue.FlowNotFound	Taskflow ID doesn't exist.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InternalAccount	The operation is not allowed for system account.
InvalidParameterValue.InvalidDBVersion	Invalid instance version.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ResetAccountPassword

Last updated : 2023-08-23 14:23:10

1. API Description

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

This API is used to reset the password of a TencentDB 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: ResetAccountPassword.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AccountName	Yes	String	Database account name
AccountPassword	Yes	String	New password of the database account
ClusterId	Yes	String	Cluster ID
Host	No	String	Host. Default value: %

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 Resetting the password of a TencentDB account.

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ResetAccountPassword
&ClusterId=cynosdbpg-on5xw0ni
&AccountName=root
&AccountPassword=abc@2018
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "148561"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.OperationNotSupport	Unsupported operation.
InternalError.SystemError	Internal system error.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InternalAccount	The operation is not allowed for system account.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidPasswordValueError	The password is invalid.
InvalidParameterValue.ParamError	Incorrect parameter.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Audit APIs

OpenAuditService

Last updated : 2023-08-23 14:23:09

1. API Description

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

This API is used to enable the audit service for a TDSQL-C for MySQL 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: OpenAuditService.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
LogExpireDay	Yes	Integer	Log retention period
HighLogExpireDay	No	Integer	Frequent log retention period
AuditRuleFilters.N	No	Array of AuditRuleFilters	Audit rule. If both this parameter and <code>RuleTemplateIds</code> are left empty, full audit will be

			applied.
RuleTemplateIds.N	No	Array of String	Rule template ID. If both this parameter and <code>AuditRuleFilters</code> are left empty, full audit will be applied.

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 Enabling the audit service

Input Example

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

{
  "InstanceId": "cynosdbmysql-ins-6990cckk",
  "LogExpireDay": 30,
  "HighLogExpireDay": 7
}
```

Output Example

```
{
  "Response": {
    "RequestId": "43-12121-812w1221213-62usf9093"
  }
}
```


5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.UnknownError	Unknown internal error.
InvalidParameter.ExceptionParam	Parameter passing error.
InvalidParameter.InvalidParameterError	Unknown parameter. Please check whether the parameter is valid.

ModifyAuditService

Last updated : 2023-08-23 14:23:09

1. API Description

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

This API is used to modify the audit configurations of an instance, such as audit log retention period and audit rule.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyAuditService.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
LogExpireDay	No	Integer	Log retention period
HighLogExpireDay	No	Integer	Frequent log retention period
AuditAll	No	Boolean	The parameter used to change the audit rule of the instance to full audit
AuditRuleFilters.N	No	Array of	Rule audit

		AuditRuleFilters	
RuleTemplateIds.N	No	Array of String	Rule template ID

3. Output Parameters

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

4. Example

Example1 Modifying the audit service

Input Example

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

{
  "InstanceId": "cynosdbmysql-ins-6990cckk",
  "LogExpireDay": 30,
  "HighLogExpireDay": 7,
  "AuditAll": true
}
```

Output Example

```
{
  "Response": {
    "RequestId": "43-12121-812w1221213-62usf9093"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.HttpError	Network error
InvalidParameter.ExceptionParam	Parameter passing error.

ModifyAuditRuleTemplates

Last updated : 2023-08-23 14:23:09

1. API Description

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

This API is used to modify an audit rule template.

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: ModifyAuditRuleTemplates.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	No	String	Common Params . This parameter is not required for this API.
RuleTemplateIds.N	Yes	Array of String	Audit rule template ID
RuleFilters.N	No	Array of RuleFilters	Audit rule after modification
RuleTemplateName	No	String	New name of the rule template
Description	No	String	New description of the rule template

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 an audit rule template

Input Example

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

{
  "RuleTemplateIds": [
    "cynosdb-rt-ws23fwu8"
  ],
  "RuleTemplateName": "wy"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "43-12121-812w1221213-62usf9093"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InvalidParameter.ExceptionParam	Parameter passing error.
InvalidParameter.InvalidParameterError	Unknown parameter. Please check whether the parameter is valid.

DescribeAuditRuleWithInstanceIds

Last updated : 2023-08-23 14:23:09

1. API Description

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

This API is used to get the audit rule templates 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: DescribeAuditRuleWithInstanceIds.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID. Currently, only one single instance can be queried.

3. Output Parameters

Parameter Name	Type	Description

TotalCount	Integer	None
Items	Array of InstanceAuditRule	Audit rule information of the instance 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 Getting the audit rule templates of an instance

Input Example

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

{
  "InstanceIds": [
    "cynosdbmysql-ins-6990cckk"
  ]
}
```

Output Example

```
{
  "Response": {
    "Items": [
      {
        "AuditRule": true,
        "AuditRuleFilters": [
          {
            "RuleFilters": [
              {
                "Compare": "INC",
                "Type": "sql",
                "Value": [
                  "select"
                ]
              }
            ],
            "RuleFilters": [
              {
                "Compare": "INC",
                "Type": "sql",
                "Value": [
                  "select"
                ]
              }
            ]
          }
        ]
      }
    ]
  }
}
```

```
{
  "Compare": "EQS",
  "Type": "dbName",
  "Value": [
    "testdb"
  ]
}
],
"InstanceId": "cynosdbmysql-ins-6990cckk"
},
"RequestId": "a94950e4-7929-493d-97a6-4cd59dba466e",
"TotalCount": 1
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InvalidParameter.ExceptionParam	Parameter passing error.

DescribeAuditRuleTemplates

Last updated : 2023-08-23 14:23:09

1. API Description

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

This API is used to query audit rule templates.

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: DescribeAuditRuleTemplates.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	No	String	Common Params . This parameter is not required for this API.
RuleTemplateIds.N	No	Array of String	Rule template ID
RuleTemplateName.N	No	Array of String	Rule template name
Limit	No	Integer	Number of results returned per request. Default value: 20 .
Offset	No	Integer	Offset. Default value: 0 .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances
Items	Array of AuditRuleTemplateInfo	List of rule template details Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying audit rule templates

Input Example

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

{
  "RuleTemplateName": [
    "template_test"
  ],
  "Limit": 10,
  "Offset": 0
}
```

Output Example

```
{
  "Response": {
    "Items": [
      {
        "CreateAt": "2022-12-06 00:54:01",
```

```
"Description": "all_template_des",
"RuleFilters": [
{
"Compare": "INC",
"Type": "sqlType",
"Value": [
"ALTER"
]
},
{
"Compare": "EQS",
"Type": "host",
"Value": [
"10.0.0.2"
]
},
{
"Compare": "NEQ",
"Type": "user",
"Value": [
"test"
]
},
{
"Compare": "INC",
"Type": "dbName",
"Value": [
"test"
]
}
],
"RuleTemplateId": "cynosdb-art-lcpm4as3",
"RuleTemplateName": "template_test"
},
"RequestId": "a19ebcfb-8b35-40f4-85ee-383109c9134b",
"TotalCount": 1
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

DeleteAuditRuleTemplates

Last updated : 2023-08-23 14:23:10

1. API Description

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

This API is used to delete an audit rule template.

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: DeleteAuditRuleTemplates.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	No	String	Common Params . This parameter is not required for this API.
RuleTemplateIds.N	Yes	Array of String	Audit rule template ID

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Deleting an audit rule template

Input Example

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

{
  "RuleTemplateIds": [
    "cynosdb-rt-ws23fwu8"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "43-12121-812w1221213-62usf9093"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InvalidParameter.ExceptionParam	Parameter passing error.

CreateAuditRuleTemplate

Last updated : 2023-08-23 14:23:10

1. API Description

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

This API is used to create an audit rule template.

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: CreateAuditRuleTemplate.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	No	String	Common Params . This parameter is not required for this API.
RuleFilters.N	Yes	Array of RuleFilters	Audit rule
RuleTemplateName	Yes	String	Rule template name
Description	No	String	Rule template description.

3. Output Parameters

Parameter Name	Type	Description
RuleTemplateId	String	The generated rule template ID 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 an audit rule template

Input Example

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

```
{
  "RuleFilters": [
    {
      "Type": "host",
      "Compare": "EQS",
      "Value": [
        "100.122.76.176",
        "10.0.0.9"
      ]
    },
    {
      "Type": "user",
      "Compare": "EQS",
      "Value": [
        "wy",
        "test"
      ]
    },
    {
      "Type": "sqlType",
      "Compare": "EQS",
      "Value": [
        "Update",
```

```
"Delete"
]
},
"RuleTemplateName": "test",
"Description": "Test rule template"
}
```

Output Example

```
{
  "Response": {
    "RuleTemplateId": "cynosdb-rt-ws23fwu8",
    "RequestId": "43-12121-812w1221213-62usf9093"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InvalidParameter.ExceptionParam	Parameter passing error.
InvalidParameter.InvalidParameterError	Unknown parameter. Please check whether the parameter is valid.

CloseAuditService

Last updated : 2023-08-23 14:23:10

1. API Description

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

This API is used to disable the audit service for a TDSQL-C for MySQL 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: CloseAuditService.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID

3. Output Parameters

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

4. Example

Example1 Disabling the audit service

Input Example

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

{
  "InstanceId": "cynosdbmysql-ins-6990cckk"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "43-12121-812w1221213-62usf9093"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.UnknownError	Unknown internal error.

Database Proxy APIs

DescribeProxies

Last updated : 2023-08-23 14:23:05

1. API Description

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

This API is used to query the list of database proxies.

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: DescribeProxies.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	No	String	Cluster ID
Limit	No	Integer	Number of returned results. Default value: 20 . Maximum value: 100 ,
Offset	No	Integer	Record offset. Default value: 0 .

OrderBy	No	String	Sorting field. Valid values: - CREATETIME: Creation time - PERIODENDTIME: Expiration time
OrderByType	No	String	Sorting order. Valid values: - ASC : Ascending. - DESC : Descending
Filters.N	No	Array of QueryParamFilter	Filter. If there are more than one filter, the logical relationship between these filters is AND .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of database proxy groups
ProxyGroupInfos	Array of ProxyGroupInfo	List of database proxy groups Note: This field may return null, indicating that no valid values can be obtained.
ProxyNodeInfos	Array of ProxyNodeInfo	Database proxy node Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of the database proxies

This example shows you how to query the information of database proxy.

Input Example

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

```
{
  "OrderBy": "createTime",
  "ClusterId": "cynosdbmysql-xx",
  "Limit": 0,
  "Filters": [
    {
      "Values": [
        "proxyGroupId"
      ],
      "Names": [
        "cynosdbmysql-proxy-xx"
      ],
      "ExactMatch": true
    }
  ],
  "Offset": 0,
  "OrderByType": "desc"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 0,
    "ProxyGroupInfos": [
      {
        "ProxyGroup": {
          "ProxyGroupId": "abc",
          "ProxyNodeCount": 0,
          "Status": "abc",
          "Region": "abc",
          "Zone": "abc",
          "CurrentProxyVersion": "abc",
          "ClusterId": "abc",
          "AppId": 0,
          "OpenRw": "abc"
        },
        "ProxyGroupRwInfo": {
          "ConsistencyType": "abc",
          "ConsistencyTimeOut": 0,
          "WeightMode": "abc",
          "FailOver": "abc",
          "AutoAddRo": "abc",
          "InstanceWeights": [
            {
              "InstanceId": "abc",

```

```
"Weight": 0
},
"OpenRw": "abc",
},
"ProxyNodes": [
{
"ProxyNodeId": "abc",
"ProxyNodeConnections": 0,
"Cpu": 0,
"Mem": 0,
"Status": "abc",
"ProxyGroupId": "abc",
"ClusterId": "abc",
"AppId": 0,
"Region": "abc",
"Zone": "abc"
},
],
"ConnectionPool": {
"OpenConnectionPool": "abc",
"ConnectionPoolType": "abc",
"ConnectionPoolTimeOut": 0
},
"NetAddrInfos": [
{
"Vip": "abc",
"Vport": 0,
"WanDomain": "abc",
"WanPort": 0,
"NetType": "abc",
"UniqSubnetId": "abc",
"UniqVpcId": "abc",
"Description": "abc",
"WanIP": "abc",
"WanStatus": "abc"
},
],
"Tasks": [
{
"TaskId": 0,
"TaskType": "abc",
"TaskStatus": "abc",
"ObjectId": "abc",
"ObjectType": "abc"
},
]
```

```
}
],
"ProxyNodeInfos": [
{
"ProxyNodeId": "abc",
"ProxyNodeConnections": 0,
"Cpu": 0,
"Mem": 0,
"Status": "abc",
"ProxyGroupId": "abc",
"ClusterId": "abc",
"AppId": 0,
"Region": "abc",
"Zone": "abc"
}
],
"RequestId": "abc"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CamCheckResourceError	Failed to get permissions. Please try again later. If the problem persists, please contact customer service.
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamBothSetError	These two parameters cannot be set at the same time.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeProxyNodes

Last updated : 2023-08-23 14:23:05

1. API Description

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

This API is used to query the list of proxy nodes.

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: DescribeProxyNodes.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Limit	No	Integer	Number of returned results. Default value: 20 . Maximum value: 100 ,
Offset	No	Integer	Record offset. Default value: 0 .
OrderBy	No	String	Sorting field. Valid values: - CREATETIME: Creation time - PERIODENDTIME: Expiration time
OrderByType	No	String	Sorting order. Valid values:

			<code>ASC</code> : Ascending. <code>DESC</code> : Descending
Filters.N	No	Array of QueryFilter	Filter. If there are more than one filter, the logical relationship between these filters is <code>AND</code> .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of the database proxy nodes
ProxyNodeInfos	Array of ProxyNodeInfo	List of the database proxy nodes
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 database proxy nodes

Input Example

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

{ }
```

Output Example

```
{
  "Response": {
    "ProxyNodeInfos": [ ],
    "RequestId": "d5ec3b85-ce7d-43b3-855f-dec59d11f3e1",
    "TotalCount": 0
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeProxySpecs

Last updated : 2023-08-18 14:30:46

1. API Description

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

This API is used to query the specifications of a database proxy.

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: DescribeProxySpecs.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
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
ProxySpecs	Array of ProxySpec	List of database proxyspecifications

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

4. Example

Example1 Querying the specifications of a database proxy

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "ProxySpecs": [
      {
        "Mem": 0,
        "Cpu": 0
      }
    ],
    "RequestId": "request-756112"
  }
}
```

Example2 Querying proxy specifications

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "ProxySpecs": [
      {
        "Cpu": 2,
        "Mem": 4000
      },
      {
        "Cpu": 4,
        "Mem": 8000
      },
      {
        "Cpu": 8,
        "Mem": 16000
      }
    ],
    "RequestId": "f4479b74-e428-40d9-a81f-e34cac00ae70"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.

DescribeSupportProxyVersion

Last updated : 2023-08-23 14:23:05

1. API Description

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

This API is used to query the supported database proxy versions.

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: DescribeSupportProxyVersion.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ProxyGroupId	No	String	Database proxy u200dgroup ID

3. Output Parameters

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

SupportProxyVersions	Array of String	Collection of supported database proxy versions Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
CurrentProxyVersion	String	The current proxy version Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the supported database proxy versions

Input Example

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

{
  "ClusterId": "xx"
}
```

Output Example

```
{
  "Response": {
    "SupportProxyVersions": [
      "xx"
    ],
    "CurrentProxyVersion": "0.0",
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

CloseProxy

Last updated : 2024-07-19 10:50:23

1. API Description

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

This API is used to disable the database proxy.

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: CloseProxy.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ProxyGroupId	No	String	Database proxy group ID
OnlyCloseRW	No	Boolean	Whether only to disable read/write separation. Valid values: <code>true</code> , <code>false</code> .

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async flow ID
TaskId	Integer	Async task 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 Disabling the database proxy

This example shows you how to disable the database proxy.

Input Example

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

{
  "ClusterId": "abc",
  "ProxyGroupId": "abc",
  "OnlyCloseRW": true
}
```

Output Example

```
{
  "Response": {
    "FlowId": 0,
    "TaskId": 0,
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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

- [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	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalServerError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.

UnauthorizedOperation.PermissionDenied	CAM authentication failed.
--	----------------------------

CreateProxy

Last updated : 2024-07-19 11:33:36

1. API Description

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

This API is used to create a database proxy.

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: CreateProxy.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Cpu	Yes	Integer	Number of CPU cores
Mem	Yes	Integer	Memory
UniqueVpcId	No	String	VPC ID, which is the same as that of the cluster by default.
UniqueSubnetId	No	String	VPC subnet ID, which is the same as that of the cluster

			by default.
ProxyCount	No	Integer	Number of nodes in the proxy group
ConnectionPoolType	No	String	Connection pool type. Valid value: <code>SessionConnectionPool</code> (session-level connection pool)
OpenConnectionPool	No	String	Whether to enable connection pool. Valid value: <code>yes</code> (enable), <code>no</code> (disable).
ConnectionPoolTimeOut	No	Integer	Connection pool threshold in seconds
SecurityGroupIds.N	No	Array of String	Array of security group IDs
Description	No	String	Description
ProxyZones.N	No	Array of ProxyZone	Database node information

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async flow ID
TaskId	Integer	Async task ID
ProxyGroupId	String	Database proxy group 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 Creating a database proxy

This example shows you how to create a database proxy.

Input Example

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

{
  "ClusterId": "abc",
  "UniqueVpcId": "abc",
  "UniqueSubnetId": "abc",
  "ProxyCount": 0,
  "Cpu": 0,
  "Mem": 0,
  "ConnectionPoolType": "abc",
  "OpenConnectionPool": "abc",
  "ConnectionPoolTimeOut": 0,
  "SecurityGroupIds": [
    "abc"
  ],
  "Description": "abc",
  "ProxyZones": [
    {
      "ProxyNodeZone": "abc",
      "ProxyNodeCount": 0
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "FlowId": 0,
    "TaskId": 0,
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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

- [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	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameter.InvalidParameterError	Unknown parameter. Please check whether the parameter is valid.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

UpgradeProxy

Last updated : 2023-08-23 14:23:04

1. API Description

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

This API is used to upgrade the configuration of a database proxy.

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: UpgradeProxy.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Cpu	Yes	Integer	Number of CPU cores
Mem	Yes	Integer	Memory
ProxyCount	No	Integer	Number of nodes in the proxy group
ProxyGroupId	No	String	ID of the database proxy group (disused)
ReloadBalance	No	String	Load rebalance mode. Valid values: <code>auto</code> , <code>manual</code>

IsInMaintainPeriod	No	String	Upgrade time. Valid values: <code>no</code> (upon upgrade completion), <code>timeWindow</code> (upgrade during instance maintenance time)
ProxyZones.N	No	Array of ProxyZone	Node information of the atabase proxy

3. Output Parameters

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

4. Example

Example1 This example shows you how to upgrade the configuration of database proxy.

This example shows you how to upgrade the configuration of database proxy.

Input Example

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

{
  "ClusterId": "abc",
  "ProxyCount": 0,
  "Cpu": 0,
  "Mem": 0,
  "ProxyGroupId": "abc",
  "ReloadBalance": "abc",
  "IsInMaintainPeriod": "abc",
  "ProxyZones": [
    {
```

```
"ProxyNodeZone": "abc",
"ProxyNodeCount": 0
}
]
```

Output Example

```
{
  "Response": {
    "FlowId": 0,
    "TaskId": 0,
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

--	--

Error Code	Description
FailedOperation	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.

CreateProxyEndPoint

Last updated : 2023-08-23 14:23:05

1. API Description

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

This API is used to create a database proxy connection.

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: CreateProxyEndPoint.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
UniqueVpcId	Yes	String	VPC ID, which is the same as that of the cluster by default.
UniqueSubnetId	Yes	String	VPCe subnet ID, which is the same as that of the cluster by default.
ConnectionPoolType	No	String	Connection pool type. Valid value:

			<code>SessionConnectionPool</code> (session-level connection pool)
OpenConnectionPool	No	String	Whether to enable connection pool. Valid value: <code>yes</code> (enable), <code>no</code> (disable).
ConnectionPoolTimeOut	No	Integer	Connection pool threshold in seconds
SecurityGroupIds.N	No	Array of String	Array of security group IDs
Description	No	String	Description
Vip	No	String	VIP information
WeightMode	No	String	Weight mode. Valid values: <code>system</code> (system-assigned), <code>custom</code> (custom).
AutoAddRo	No	String	Whether to automatically add read-only instance. Valid value: <code>yes</code> , <code>no</code> .
FailOver	No	String	Whether to enable failover
ConsistencyType	No	String	Consistency type. Valid values: <code>eventual</code> , <code>global</code> , <code>session</code> .
RwType	No	String	Read-write attribute. Valid values: <code>READWRITE</code> , <code>READONLY</code> .
ConsistencyTimeOut	No	Integer	Consistency timeout period
TransSplit	No	Boolean	Transaction split
AccessMode	No	String	Connection mode. Valid values: <code>nearby</code> , <code>balance</code> .
InstanceWeights.N	No	Array of ProxyInstanceWeight	Instance weight

3. Output Parameters

Parameter Name	Type	Description

FlowId	Integer	Async flow ID
TaskId	Integer	Async task ID
ProxyGroupId	String	Database proxy u200dgroup 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 database proxy connection

This example shows you how to create a database proxy connection.

Input Example

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

{
  "ClusterId": "abc",
  "UniqueVpcId": "abc",
  "UniqueSubnetId": "abc",
  "ConnectionPoolType": "abc",
  "OpenConnectionPool": "abc",
  "ConnectionPoolTimeOut": 0,
  "SecurityGroupIds": [
    "abc"
  ],
  "Description": "abc",
  "Vip": "abc",
  "WeightMode": "abc",
  "AutoAddRo": "abc",
  "FailOver": "abc",
  "ConsistencyType": "abc",
  "RwType": "abc",
  "ConsistencyTimeOut": 0,
  "TransSplit": true,
  "AccessMode": "abc",
  "InstanceWeights": [
    {
```



```
"InstanceId": "abc",
"Weight": 0
}
]
```

Output Example

```
{
  "Response": {
    "FlowId": 0,
    "TaskId": 0,
    "ProxyGroupId": "abc",
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameter.InvalidParameterError	Unknown parameter. Please check whether the parameter is valid.
InvalidParameterValue.InvalidZoneldError	Invalid AZ
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyProxyDesc

Last updated : 2024-07-19 11:44:22

1. API Description

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

This API is used to modify the description of a database proxy.

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: ModifyProxyDesc.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ProxyGroupId	Yes	String	Database proxy group ID
Description	Yes	String	Database proxy description

3. Output Parameters

--	--	--

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

4. Example

Example1 Modifying the description of a database proxy

Input Example

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

{
  "ClusterId": "cynosdbmysql-xxxxxxx",
  "ProxyGroupId": "cynosdbmysql-proxy-xxxxxxx",
  "Description": "xx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "128046"
  }
}
```

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	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.

ReloadBalanceProxyNode

Last updated : 2024-07-19 11:28:39

1. API Description

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

This API is used to rebalance the load on the database proxy.

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: ReloadBalanceProxyNode.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ProxyGroupId	Yes	String	Database proxy group ID

3. Output Parameters

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

Name		
FlowId	Integer	Async flow ID
TaskId	Integer	Async task 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 Rebalancing the load on the database proxy

Input Example

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

{
  "ClusterId": "xx",
  "ProxyGroupId": "xx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123",
    "TaskId": "123"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.

UpgradeProxyVersion

Last updated : 2024-07-19 11:17:49

1. API Description

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

This API is used to upgrade the version of a database proxy.

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: UpgradeProxyVersion.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
SrcProxyVersion	Yes	String	Current version of database proxy
DstProxyVersion	Yes	String	Target version of database proxy
ProxyGroupId	No	String	Database proxy group ID
IsInMaintainPeriod	No	String	Upgrade time. Valid values: <code>no</code> (upon upgrade completion), <code>yes</code> (upgrade during instance maintenance time)

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async flow ID
TaskId	Integer	Async task 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 This example shows you how to upgrade the version of the database proxy.

This example shows you how to upgrade the version of the database proxy.

Input Example

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

{
  "ClusterId": "abc",
  "ProxyGroupId": "abc",
  "SrcProxyVersion": "abc",
  "DstProxyVersion": "abc",
  "IsInMaintainPeriod": "abc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123",
    "TaskId": "123"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.

ModifyProxyRwSplit

Last updated : 2024-07-19 11:01:12

1. API Description

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

This API is used to configure the read/write separation of a database proxy.

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: ModifyProxyRwSplit.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ProxyGroupId	Yes	String	Database proxy group ID
ConsistencyType	No	String	Consistency type. Valid values: <code>eventual</code> (eventual consistency), <code>session</code> (session consistency), <code>global</code> (global consistency).

ConsistencyTimeOut	No	String	Consistency timeout period
WeightMode	No	String	Assignment mode of read/write weights. Valid values: <code>system</code> (auto-assigned), <code>custom</code>
InstanceWeights.N	No	Array of ProxyInstanceWeight	Read-Only weight of an instance
FailOver	No	String	Whether to enable failover. If it is enabled, the connection address will route requests to the source instance in case of proxy failure. Valid values: <code>true</code> , <code>false</code> .
AutoAddRo	No	String	Whether to automatically add read-only instances. Valid values: <code>true</code> , <code>false</code>
OpenRw	No	String	Whether to enable read/write separation
RwType	No	String	Read/Write type. Valid values: <code>READWRITE</code> , <code>READONLY</code> .
TransSplit	No	Boolean	Transaction split
AccessMode	No	String	Connection mode. Valid values: <code>nearby</code> , <code>balance</code> .
OpenConnectionPool	No	String	Whether to enable the connection pool. Valid values: <code>yes</code> , <code>no</code> .
ConnectionPoolType	No	String	Connection pool type. Valid values: <code>ConnectionPoolType</code> , <code>SessionConnectionPool</code> .
ConnectionPoolTimeOut	No	Integer	Connection persistence timeout

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async FlowId
TaskId	Integer	Async task 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 This API is used to configure the read/write separation of a database proxy.

This API is used to configure the read/write separation of a database proxy.

Input Example

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

{
  "ClusterId": "abc",
  "ProxyGroupId": "abc",
  "ConsistencyType": "abc",
  "ConsistencyTimeOut": "abc",
  "WeightMode": "abc",
  "InstanceWeights": [
    {
      "InstanceId": "abc",
      "Weight": 0
    }
  ],
  "FailOver": "abc",
  "AutoAddRo": "abc",
  "OpenRw": "abc",
  "RwType": "abc",
  "TransSplit": true,
  "AccessMode": "abc",
  "OpenConnectionPool": "abc",
  "ConnectionPoolType": "abc",
  "ConnectionPoolTimeOut": 0
}
```

Output Example

```
{
  "Response": {
    "FlowId": 0,
    "TaskId": 0,
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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

- [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	Operation failed
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.

FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameter.InvalidParameterError	Unknown parameter. Please check whether the parameter is valid.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Backup and Restoration APIs

ModifyBinlogSaveDays

Last updated : 2023-08-23 14:23:06

1. API Description

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

This API is used to modify the binlog retention period in days.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyBinlogSaveDays.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
BinlogSaveDays	Yes	Integer	Binlog retention period in days

3. Output Parameters

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

4. Example

Example1 Modifying the Binlog retention period in days

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: ModifyBinlogSaveDays<common request parameters>{ "ClusterId": "cynosdb-
xxxxxxx", "BinlogSaveDays": 10}
```

Output Example

```
{
  "Response": {
    "RequestId": "9e56617c-c7cc-44e1-a967-6beb418ad5e7"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyBackupConfig

Last updated : 2023-08-23 14:23:07

1. API Description

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

This API is used to modify the backup configuration of the specified cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyBackupConfig.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
BackupTimeBeg	Yes	Integer	Full backup start time. Value range: [0-24*3600]. For example, 0:00 AM, 1:00 AM, and 2:00 AM are represented by 0, 3600, and 7200, respectively
BackupTimeEnd	Yes	Integer	Full backup end time. Value range: [0-24*3600]. For example, 0:00 AM, 1:00 AM, and 2:00 AM are represented by 0, 3600, and 7200, respectively.

ReserveDuration	Yes	Integer	Backup retention period in seconds. Backups will be cleared after this period elapses. 7 days is represented by 3600247 = 604800. Maximum value: 158112000.
BackupFreq.N	No	Array of String	Backup frequency. It is an array of 7 elements corresponding to Monday through Sunday. full: full backup; increment: incremental backup. This parameter cannot be modified currently and doesn't need to be entered.
BackupType	No	String	Backup mode. logic: logic backup; snapshot: snapshot backup. This parameter cannot be modified currently and doesn't need to be entered.

3. Output Parameters

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

4. Example

Example1 Modifying the backup configuration of a cluster

This example shows you how to modify the backup configuration.

Input Example

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

{
  "BackupTimeBeg": "7200",
  "ReserveDuration": "604800",
  "ClusterId": "cynosdbmysql-45knmnra",
  &BackupTimeEnd=21600
}
```

Output Example

```
{
  "Response": {
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.

InvalidParameterValue.ParamError	Incorrect parameter.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeRollbackTimeValidity

Last updated : 2023-07-06 16:46:09

1. API Description

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

This API is used to query whether rollback is possible based on the specified time and cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeRollbackTimeValidity.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ExpectTime	Yes	String	Expected time point to roll back to
ExpectTimeThresh	Yes	Integer	Error tolerance range for rollback time point

3. Output Parameters

--	--	--

Parameter Name	Type	Description
PoolId	Integer	Storage <code>poolID</code>
QueryId	Integer	Rollback task ID, which needs to be passed in when rolling back to this time point
Status	String	Whether the time point is valid. pass: check passed; fail: check failed
SuggestTime	String	Suggested time point. This value takes effect only if <code>Status</code> is <code>fail</code>
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying whether rollback is possible based on specified time point

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DescribeRollbackTimeValidity
&ClusterId=cynosdbpg-gn65y9nk
&ExpectTime=2019-01-1302:12:05
&ExpectTimeThresh=0
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "PoolId": 1050,
    "QueryId": 2008,
    "Status": "pass",
    "SuggestTime": ""
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalServerError.SystemError	Internal system error.
InvalidParameter.ControllerNotFoundError	This API was not found.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeRollbackTimeRange

Last updated : 2023-08-23 14:23:07

1. API Description

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

This API is used to query the valid rollback time range for the specified cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeRollbackTimeRange.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
TimeRangeStart	String	Start time of valid rollback time range (disused)

		Note: This field may return null, indicating that no valid values can be obtained.
TimeRangeEnd	String	End time of valid rollback time range (disused) Note: This field may return null, indicating that no valid values can be obtained.
RollbackTimeRanges	Array of RollbackTimeRange	Time range available for rollback
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying valid rollback time range

Input Example

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

{
  "ClusterId": "cynosdbmysql-oib3wx0i"
}
```

Output Example

```
{
  "Response": {
    "RollbackTimeRanges": [
      {
        "TimeRangeStart": "2019-01-13 02:12:05",
        "TimeRangeEnd": "2019-01-20 02:10:12"
      },
      {
        "TimeRangeStart": "xx",
        "TimeRangeEnd": "xx",
        "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
      }
    ]
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InvalidRegionIdError	The region is invalid.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.

UnauthorizedOperation.PermissionDenied	CAM authentication failed.
--	----------------------------

DescribeBackupList

Last updated : 2023-08-23 14:23:08

1. API Description

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

This API is used to query the list of backup files.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeBackupList.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Limit	No	Integer	The number of results to be returned. Value range: (0,100]
Offset	No	Integer	Record offset. Value range: [0,INF)
DbType	No	String	Database type. Valid values: MYSQL
BackupIds.N	No	Array of Integer	Backup ID

BackupType	No	String	Backup type. Valid values: <code>snapshot</code> (snapshot backup), <code>logic</code> (logic backup).
BackupMethod	No	String	Back mode. Valid values: <code>auto</code> (automatic backup), <code>manual</code> (manual backup)
SnapShotType	No	String	
StartTime	No	String	Backup start time
EndTime	No	String	Backup end time
FileNames.N	No	Array of String	
BackupNames.N	No	Array of String	Backup alias, which supports fuzzy query.
SnapshotIdList.N	No	Array of Integer	ID list of the snapshot backup

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of backup files
BackupList	Array of BackupFileInfo	Backup file 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 backup file list

Input Example

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



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

{
  "Limit": 10,
  "ClusterId": "cynosdbpg-ilgo90hu",
  "Offset": "0"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "BackupList": [
      {
        "SnapshotId": 10000,
        "SnapshotTime": "xx",
        "FileName": "snap",
        "FileSize": 20190215,
        "StartTime": "2019-01-20 01:10:12",
        "FinishTime": "2019-01-20 02:10:12",
        "BackupType": "snapshot",
        "BackupMethod": "auto",
        "BackupStatus": "success",
        "SnapShotType": "full",
        "BackupName": "desc123",
        "BackupId": 100
      }
    ],
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeBackupConfig

Last updated : 2023-07-06 16:46:11

1. API Description

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

This API is used to get the backup configuration information of the specified cluster, including the full backup time range and backup file retention period.

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: DescribeBackupConfig.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description

BackupTimeBeg	Integer	Full backup start time. Value range: [0-24*3600]. For example, 0:00 AM, 1:00 AM, and 2:00 AM are represented by 0, 3600, and 7200, respectively
BackupTimeEnd	Integer	Full backup end time. Value range: [0-24*3600]. For example, 0:00 AM, 1:00 AM, and 2:00 AM are represented by 0, 3600, and 7200, respectively
ReserveDuration	Integer	Backup retention period in seconds. Backups will be cleared after this period elapses. 7 days is represented by $3600 \times 24 \times 7 = 604800$
BackupFreq	Array of String	Backup frequency. It is an array of 7 elements corresponding to Monday through Sunday. full: full backup; increment: incremental backup Note: this field may return null, indicating that no valid values can be obtained.
BackupType	String	Backup mode. logic: logic backup; snapshot: snapshot backup Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the backup configuration information

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DescribeBackupConfig
&ClusterId=cynosdbmysql-45knmra
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "BackupFreq": [
      "full",
      "increment",
      "increment",
      "increment",
      "increment",
      "increment",
      "increment"
    ],
    "BackupType": "",
    "BackupTimeEnd": 21600,
```

```
"BackupTimeBeg": 7200,  
"RequestId": "180877",  
"ReserveDuration": 604800  
}  
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.GetBackupStrategyError	Failed to query the backup policy. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.SystemError	Internal system error.

InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyBackupName

Last updated : 2023-08-23 14:23:07

1. API Description

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

This API is used to rename a backup 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: ModifyBackupName.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
BackupId	Yes	Integer	Backup file ID
BackupName	Yes	String	Backup name, which can contain up to 60 characters.

3. Output Parameters

--	--	--

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

4. Example

Example1 Renaming a backup file

Input Example

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

{
  "ClusterId": "cynosdbmysql-xxxxxxx",
  "BackupId": 1000,
  "BackupName": "backupfile-01"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "9e56617c-c7cc-44e1-a967-6beb418ad5e7"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeBinlogs

Last updated : 2023-08-23 14:23:07

1. API Description

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

This API is used to query the list of binlogs in a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeBinlogs.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
StartTime	No	String	Start time
EndTime	No	String	End time
Offset	No	Integer	Offset
Limit	No	Integer	Maximum number

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of records
Binlogs	Array of BinlogItem	Binlog list Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of binlogs in a cluster

Input Example

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

{
  "ClusterId": "cynosdbmysql-xxxxxxx",
  "StartTime": "2022-01-01 00:00:00",
  "EndTime": "2022-01-01 23:59:59",
  "Limit": 100,
  "Offset": 100
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "xx",
    "Binlogs": [
      {
        "BinlogId": 10782259,
        "FileName": "00000002_0010782259_mysql-bin.001002",

```

```
"FileSize": 479,
"FinishTime": "2022-06-16 18:36:14",
"StartTime": "2022-06-15 17:19:19"
}
]
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeBinlogSaveDays

Last updated : 2023-08-23 14:23:07

1. API Description

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

This API is used to query the binlog retention period of a cluster in days.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeBinlogSaveDays.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description

BinlogSaveDays	Integer	Binlog retention period in days
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the binlog retention period in days

Input Example

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

{
  "ClusterId": "cynosdbmysql-rtqj0kp5"
}
```

Output Example

```
{
  "Response": {
    "BinlogSaveDays": 7,
    "RequestId": "9bea88d4-9549-4101-b1b9-8d7ceb0581a2"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeBinlogDownloadUrl

Last updated : 2023-08-23 14:23:08

1. API Description

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

This API is used to query the download address of a binlog.

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: DescribeBinlogDownloadUrl.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
BinlogId	Yes	Integer	Binlog file ID

3. Output Parameters

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

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

4. Example

Example1 Querying the download address of a binlog

Input Example

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

{
  "ClusterId": "cynosdbmysql-xxxxxxx",
  "BinlogId": 1000
}
```

Output Example

```
{
  "Response": {
    "DownloadUrl": "xxxx",
    "RequestId": "9e56617c-c7cc-44e1-a967-6beb418ad5e7"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalServerError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeBackupDownloadUrl

Last updated : 2023-08-23 14:23:08

1. API Description

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

This API is used to query the download address of a cluster backup 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: DescribeBackupDownloadUrl.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
BackupId	Yes	Integer	Backup ID

3. Output Parameters

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

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

4. Example

Example1 Querying the download address of a cluster backup file

Input Example

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

{
  "ClusterId": "cynosdbmysql-xxxxxxx",
  "BackupId": 1000
}
```

Output Example

```
{
  "Response": {
    "DownloadUrl": "xxxx",
    "RequestId": "9e56617c-c7cc-44e1-a967-6beb418ad5e7"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalServerError.InternalHttpServerError	An exception occurred while executing the HTTP request.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

CreateBackup

Last updated : 2023-08-23 14:23:08

1. API Description

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

This API is used to create manual backup.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateBackup.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
BackupType	No	String	Backup type. Valid values: <code>logic</code> (logic backup), <code>snapshot</code> (physical backup)
BackupDatabases.N	No	Array of String	Backup database, which is valid when <code>BackupType</code> is <code>logic</code> .
BackupTables.N	No	Array of DatabaseTables	Backup table, which is valid when <code>BackupType</code> is <code>logic</code> .

BackupName	No	String	Backup name
------------	----	--------	-------------

3. Output Parameters

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

4. Example

Example1 Creating a backup

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=CreateBackup
&ClusterId=cynosdbpg-45knmnra
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
    "FlowId": 12345
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamError	Incorrect parameter.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DeleteBackup

Last updated : 2023-08-23 14:23:08

1. API Description

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

This API is used to delete the manual backup for a cluster. It cannot be used to delete the automatic 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: DeleteBackup.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
SnapshotIdList.N	No	Array of Integer	Backup file ID. This field is used by legacy versions and thus not recommended.
BackupIds.N	No	Array of Integer	Backup file ID. This field is recommended.

3. Output Parameters

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

4. Example

Example1 Deleting a backup

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DeleteBackup
&ClusterId=cynosdbpg-45knmnra
&SnapshotIdList.0=4928
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.SystemError	Internal system error.
InvalidParameterValue.ParamError	Incorrect parameter.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Parameter Management APIs

CreateParamTemplate

Last updated : 2023-08-23 14:22:56

1. API Description

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

This API is used to create a parameter template.

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: CreateParamTemplate.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
TemplateName	Yes	String	Template name
EngineVersion	Yes	String	MySQL version number
TemplateDescription	No	String	Template description
TemplateId	No	Integer	ID of the template to be copied

DbMode	No	String	Database type. Valid values: <code>NORMAL</code> (default), <code>SERVERLESS</code> .
ParamList.N	No	Array of ParamItem	List of the parameters

3. Output Parameters

Parameter Name	Type	Description
TemplateId	Integer	Template 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 parameter template

This example shows you how to create a parameter template

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreateClusterDatabase<common request parameters>{ "UserHostPrivileges": [ { "DbUserName": "common template", "EngineVersion": "5.7", "TemplateId": "93", "TemplateName": "v5.7 common parameter template" }
```

Output Example

```
{
  "Response": {
    "RequestId": "b7735dc6-5847-4c9b-a713-9745f9afda34",
    "TemplateId": 95
  }
}
```

Example2 Customizing a parameter template

This example shows you how to customize a parameter template.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreateParamTemplate<common request parameters>{ "TemplateDescription": "API test", "EngineVersion": "5.7", "TemplateId": "0", "DbMode": "NORMAL", "TemplateName": "API test"
```

Output Example

```
{
  "Response": {
    "RequestId": "edbd6b65-daf0-4ca8-b34f-cc3fd42790d8",
    "TemplateId": 27
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

--	--

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.CamDeniedError	Failed to verify permissions
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DeleteParamTemplate

Last updated : 2023-08-23 14:22:56

1. API Description

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

This API is used to delete a parameter template.

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: DeleteParamTemplate.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
TemplateId	Yes	Integer	Parameter template ID

3. Output Parameters

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

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

4. Example

Example1 Deleting a parameter template

This example shows you how to delete a parameter template.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: DeleteParamTemplate<common request parameters>{ "TemplateId": "93"}
```

Output Example

```
{
  "Response": {
    "RequestId": "855d70ae-2815-4311-a42e-75a41ee0af8b"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
OperationDenied.CamDeniedError	Failed to verify permissions

DescribeInstanceParams

Last updated : 2023-07-06 16:45:55

1. API Description

Domain name for API request: cynosdb.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: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
InstanceIds.N	Yes	Array of String	Instance ID, which supports batch query.
ParamKeyword	No	String	Search condition for a parameter name, which supports fuzzy search.

3. Output Parameters

Parameter Name	Type	Description
Items	Array of InstanceParamItem	List of instance parameters
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 parameters

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeInstanceErrorLogs<common request parameters>{ "InstanceId": "cynosdbmysql-ge5ck0jr", "ParamKeyword": "cdb", "InstanceIds": [ "cynosdbmysql-ins-kzavkukw" ] }
```

Output Example

```
{
  "Response": {
    "Items": [
      {
        "InstanceId": "cynosdbmysql-ins-1111111",
        "ParamsItems": [
          {
            "CurrentValue": "1",
            "Default": "1",
            "Description": "Controls the interval between successive column values.",
            "EnumValue": [],
            "Func": "",
            "IsFunc": false,
            "IsGlobal": 1,
            "Max": "65535",
            "Min": "1",
            "NeedReboot": 0,
            "ParamName": "auto_increment_increment",
            "ParamType": "integer"
          }
        ]
      }
    ]
  }
}
```

```
}  
]  
}  
],  
"RequestId": "12fc29c0-6a35-11ed-bc4c-d5b8675844ad"  
}  
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InstanceNotFound	The instance does not exist.

InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.CamDeniedError	Failed to verify permissions
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeParamTemplateDetail

Last updated : 2023-07-06 16:45:55

1. API Description

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

This API is used to query the details of a parameter template.

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: DescribeParamTemplateDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
TemplateId	Yes	Integer	Parameter template ID

3. Output Parameters

Parameter Name	Type	Description
TemplateId	Integer	Parameter template ID

TemplateName	String	Parameter template name
TemplateDescription	String	Parameter template description
EngineVersion	String	Engine version
TotalCount	Integer	Total number of parameters
Items	Array of ParamDetail	List of parameters
DbMode	String	Database type. Valid values: <code>NORMAL</code> , <code>SERVERLESS</code> .
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the details of a parameter template

This example shows you how to query the details of a parameter template.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: DescribeParamTemplateDetail<common request parameters>{ "TemplateId":
"4837003"}
```

Output Example

```
{
  "Response": {
    "DbMode": "NORMAL",
    "EngineVersion": "5.7",
    "Items": [
      {
        "CurrentValue": "1000",
        "Default": "0",
        "Description": "The maximum permitted number of simultaneous client connections p
er user.",
        "EnumValue": [],
        "Func": "",
        "IsFunc": false,
        "IsGlobal": 0,
        "MatchType": "",

```



```
"MatchValue": "",
"Max": "10240",
"Min": "0",
"ModifiableInfo": {},
"NeedReboot": 0,
"ParamName": "max_user_connections",
"ParamType": "integer",
"SupportFunc": false
}
],
"RequestId": "ca8481bf-ba79-42ba-b90b-bd47df104add",
"TemplateDescription": "test template",
"TemplateId": 4837003,
"TemplateName": "test template",
"TotalCount": 1
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
OperationDenied.CamDeniedError	Failed to verify permissions
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyInstanceParam

Last updated : 2023-08-18 14:30:36

1. API Description

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

This API is used to modify the instance parameters.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyInstanceParam.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
InstanceIds.N	No	Array of String	Instance ID
ClusterParamList.N	No	Array of ModifyParamItem	List of cluster parameters
InstanceParamList.N	No	Array of ModifyParamItem	List of the instance parameters

IsInMaintainPeriod	No	String	Valid values: <code>yes</code> (modify in maintenance window), <code>no</code> (execute now by default).
--------------------	----	--------	--

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 Modifying the instance parameters

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: ModifyInstanceParam<common request parameters>{ "InstanceParamList": [ { "CurrentValue": "2", "ParamName": "innodb_stats_transient_sample_pages" } ], "ClusterId": "cynosdbmysql-ge5ck0jr", "InstanceIds": [ "cynosdbmysql-ins-kzavkukw" ], "IsInMaintainPeriod": "no" }
```

Output Example

```
{
  "Response": {
    "FlowId": 1103611,
    "RequestId": "77735431-2058-4999-ace4-a16874c2177b"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
InternalServerError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalServerError.UnknownError	Unknown internal error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyParamTemplate

Last updated : 2023-08-18 14:30:36

1. API Description

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

This API is used to modify a parameter template.

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: ModifyParamTemplate.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
TemplateId	Yes	Integer	Template ID
TemplateName	No	String	Template name
TemplateDescription	No	String	Template description
ParamList.N	No	Array of ModifyParamItem	Parameter list

3. Output Parameters

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

4. Example

Example1 Modifying a parameter template

This example shows you how to modify a parameter template.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: ModifyParamTemplate<common request parameters>{ "TemplateDescription":
"Do not delete", "TemplateId": "94", "ParamList": [ { "CurrentValue": "1024", "Pa
ramName": "query_cache_size" } ], "TemplateName": "v5.7 common parameter template
-do not delete"}
```

Output Example

```
{
  "Response": {
    "RequestId": "916e8185-4749-45af-899f-e57043164675"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.CamDeniedError	Failed to verify permissions

ModifyClusterParam

Last updated : 2023-08-23 14:22:55

1. API Description

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

This API is used to modify the parameters of a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterParam.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ParamList.N	Yes	Array of ParamItem	List of the parameters to be modified. Each element in the list is a combination of <code>ParamName</code> , <code>CurrentValue</code> , and <code>OldValue</code> . <code>ParamName</code> is the parameter name; <code>CurrentValue</code> is the current value; <code>OldValue</code> is the old value that doesn't need to be verified.
IsInMaintainPeriod	No	String	Valid values: <code>yes</code> (execute during maintenance time), <code>no</code> (execute now)

3. Output Parameters

Parameter Name	Type	Description
AsyncRequestId	String	Async request ID used to query the result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the parameters of a cluster

Input Example

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

{
  "ClusterId": "cynosdbmysql-ins-jhi2gdi0",
  "ParamList": [
    {
      "CurrentValue": "59",
      "OldValue": "60",
      "ParamName": "authentication_timeout"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "164063",
    "AsyncRequestId": "56317d06-8078-4e5c-b675-9e048995c820"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.SystemError	Internal system error.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.

OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.
OperationDenied.TaskConflictError	The task conflict check failed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeParamTemplates

Last updated : 2023-08-23 14:22:55

1. API Description

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

This API is used to query all parameter templates information of a user-specified product.

A maximum of 1000 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: DescribeParamTemplates.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
EngineVersions.N	No	Array of String	Database engine version number
TemplateNames.N	No	Array of String	Template name
TemplateIds.N	No	Array of Integer	Template ID
DbModes.N	No	Array of String	Database Type. Valid values: <code>NORMAL</code> , <code>SERVERLESS</code> .

Offset	No	Integer	Offset for query
Limit	No	Integer	Limit on queries
Products.N	No	Array of String	Product type of the queried template
TemplateTypes.N	No	Array of String	Template type
EngineTypes.N	No	Array of String	Version type
OrderBy	No	String	The sorting order of the returned results
OrderDirection	No	String	Sorting order. Valid values: <code>desc</code> , <code>asc</code> .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of parameter templates
Items	Array of ParamTemplateListInfo	Parameter template information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 This example shows you how to query the list of the parameter templates.

This example shows you how to query the list of the parameter templates.

Input Example

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

```
{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "RequestId": "fc791b35-d5e5-4e08-859d-1c095e783199",
    "Items": [
      {
        "TemplateDescription": "APITest",
        "TemplateName": "APITest",
        "Id": 27,
        "EngineVersion": "5.7",
        "ParamInfoSet": [
          {
            "CurrentValue": "12",
            "Description": "APITest",
            "Min": "10",
            "Default": "10",
            "Max": "10000",
            "ParamType": "integer",
            "EnumValue": [
              "test"
            ],
            "ParamName": "param1",
            "NeedReboot": 0
          }
        ],
        "DbMode": "NORMAL"
      },
      {
        "TemplateName": "APITest",
        "TemplateDescription": "APITest",
        "Id": 28,
        "EngineVersion": "5.7",
        "ParamInfoSet": [
          {
            "CurrentValue": "12",
            "Description": "APITest",
            "Min": "10",
            "Default": "10",
            "Max": "10000",
            "ParamType": "integer",
            "EnumValue": [
```

```
"tste",
"test2"
],
"ParamName": "param2",
"NeedReboot": 0
}
],
"DbMode": "NORMAL"
}
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.

UnauthorizedOperation.PermissionDenied

CAM authentication failed.

DescribeClusterParams

Last updated : 2023-08-23 14:22:55

1. API Description

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

This API is used to query the parameters of a cluster.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterParams.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ParamName	No	String	Parameter name

3. Output Parameters

Parameter Name	Type	Description

TotalCount	Integer	Number of parameters
Items	Array of ParamInfo	Instance parameter list Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the cluster parameters

Input Example

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

{
  "ClusterId": "cynosdbpg-1xcycbu8"
}
```

Output Example

```
{
  "Response": {
    "Items": [
      {
        "MatchValue": "",
        "CurrentValue": "4096",
        "Min": "1024",
        "Default": "4096",
        "Description": "xx",
        "Max": "65536",
        "ParamType": "integer",
        "EnumValue": null,
        "ParamName": "work_mem",
        "MatchType": "",
        "NeedReboot": 0
      },
      {
        "MatchValue": "",
```

```
"CurrentValue": "base64",
"Min": "",
"Default": "base64",
"Description": "xx",
"Max": "",
"ParamType": "enum",
"EnumValue": [
  "base64",
  "hex"
],
"ParamName": "xmlbinary",
"MatchType": "",
"NeedReboot": 0
}
],
"RequestId": "117812",
"TotalCount": 2
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Performance Analysis APIs

DescribeInstanceErrorLogs

Last updated : 2023-08-23 14:22:55

1. API Description

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

This API is used to query the list of error logs for 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: DescribeInstanceErrorLogs.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
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	Limit on the number of logs
Offset	No	Integer	Offset of the log number
StartTime	No	String	Start time

EndTime	No	String	End time
OrderBy	No	String	Sorting field. Valid value: 'Timestamp'.
OrderByType	No	String	Sorting order. Valid values: <code>ASC</code> , <code>DESC</code> .
LogLevels.N	No	Array of String	Log level, which supports combo search by multiple levels. Valid values: <code>error</code> , <code>warning</code> , <code>note</code> .
KeyWords.N	No	Array of String	

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of logs Note: This field may return null, indicating that no valid values can be obtained.
ErrorLogs	Array of CynosdbErrorLogItem	Error log list Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the error logs

This example shows you how to query the error logs.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: DescribeInstanceErrorLogs<common request parameters>{ "InstanceId": "cy
nosdbmysql-ins-xxxxxxx", "Limit": 10, "Offset": 0, "StartTime": "2019-07-04 16:4
5:32", "EndTime": "2019-07-04 16:55:32", "OrderBy": "Timestamp", "OrderByType":
"DESC", "LogLevels": [ "error" ], "KeyWords": [ "abc" ]}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ErrorLogs": [
      {
        "Timestamp": 0,
        "Level": "error",
        "Content": "abc"
      }
    ],
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description

FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameter.ControllerNotFoundError	This API was not found.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.ValueNotFound	No data found
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ExportInstanceErrorLogs

Last updated : 2023-08-23 14:22:55

1. API Description

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

This API is used to export the error logs 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: ExportInstanceErrorLogs.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
StartTime	No	String	Log start time
EndTime	No	String	Log end time
Limit	No	Integer	The max number of returned results
Offset	No	Integer	Offset

LogLevels.N	No	Array of String	Log level
KeyWords.N	No	Array of String	
FileType	No	String	The template type. Valid values: <code>csv</code> , <code>original</code> .
OrderBy	No	String	Valid value: <code>Timestamp</code>
OrderByType	No	String	Valid values: <code>ASC</code> or <code>DESC</code> .

3. Output Parameters

Parameter Name	Type	Description
ErrorLogItems	Array of ErrorLogItemExport	Export content of the error log 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 Exporting the error logs

This example shows you how to export the error logs.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: ExportInstanceErrorLogs<common request parameters>{ "InstanceId": "cynosdbmysql-ins-xxxxxxx", "StartTime": "2019-07-04 16:45:32", "EndTime": "2019-07-04 16:55:32", "Limit": 10, "Offset": 0, "LogLevels": [ "error" ], "KeyWords": [ "abc" ], "FileType": "csv", "OrderBy": "Timestamp", "OrderByType": "ASC"}
```

Output Example

```
{
  "Response": {
    "ErrorLogItems": [
```

```
{
  "Timestamp": "2019-07-04 16:45:32",
  "Level": "error",
  "Content": "abc"
},
{
  "RequestId": "abc"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ExportInstanceSlowQueries

Last updated : 2024-07-19 11:59:06

1. API Description

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

This API is used to export the slow logs 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: ExportInstanceSlowQueries.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
StartTime	No	String	Transaction start time
EndTime	No	String	Transaction end time
Limit	No	Integer	Maximum number
Offset	No	Integer	Offset

Username	No	String	Username
Host	No	String	Client host
Database	No	String	Database name
FileType	No	String	File type. Valid values: csv, original.
OrderBy	No	String	Sorting field. Valid values: <code>QueryTime</code> , <code>LockTime</code> , <code>RowsExamined</code> , and <code>RowsSent</code> .
OrderByType	No	String	Sorting order. Valid values: <code>asc</code> , <code>desc</code> .

3. Output Parameters

Parameter Name	Type	Description
FileContent	String	Slow query export content
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Exporting the slow logs of an instance

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ExportInstanceSlowQueries
<Common request parameters>

{
  "InstanceId": "cynosdbmysql-ins-xxxxxxx",
  "StartTime": "2022-01-01 00:00:00",
  "EndTime": "2022-01-01 23:59:59",
  "Offset": 0,
  "Limit": 100,
  "Username": "root",
```

```
"Database": "db",
"FileType": "csv"
}
```

Output Example

```
{
  "Response": {
    "FileContent": "xxxx",
    "RequestId": "9e56617c-c7cc-44e1-a967-6beb418ad5e7"
  }
}
```

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.OperationFailedError	Operation failed. Try again later. If the problem persists,

	contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeInstanceSlowQueries

Last updated : 2023-08-23 14:22:55

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query the slow query logs 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: DescribeInstanceSlowQueries.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID
StartTime	No	String	Transaction start time
EndTime	No	String	Transaction end time
Limit	No	Integer	Maximum number
Offset	No	Integer	Offset

Username	No	String	Username
Host	No	String	Client host
Database	No	String	Database name
OrderBy	No	String	Sorting field. Valid values: QueryTime, LockTime, RowsExamined, RowsSent.
OrderByType	No	String	Sorting order. Valid values: asc, desc.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number
SlowQueries	Array of SlowQueriesItem	Slow query record
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the slow query logs of an instance

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeInstanceSlowQueries
<Common request parameters>

{
  "InstanceId": "cynosdbmysql-ins-xxxxxxx",
  "StartTime": "2022-06-22 00:00:00",
  "EndTime": "2022-06-24 23:59:59"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 6,
    "SlowQueries": [
      {
        "Database": "information_schema",
        "LockTime": 0,
        "QueryTime": 11.00011,
        "RowsExamined": 0,
        "RowsSent": 0,
        "SqlMd5": "267171214708E27C",
        "SqlTemplate": "select sleep(?) limit ? offset ?;",
        "SqlText": "SELECT sleep(11) LIMIT 11 offset 0",
        "Timestamp": 1655891555,
        "UserHost": "11.186.190.10",
        "UserName": "root"
      },
      {
        "Database": "information_schema",
        "LockTime": 0,
        "QueryTime": 11.000109,
        "RowsExamined": 0,
        "RowsSent": 0,
        "SqlMd5": "267171214708E27C",
        "SqlTemplate": "select sleep(?) limit ? offset ?;",
        "SqlText": "SELECT sleep(11) LIMIT 11 offset 0",
        "Timestamp": 1655891543,
        "UserHost": "11.186.190.10",
        "UserName": "root"
      },
      {
        "Database": "information_schema",
        "LockTime": 0,
        "QueryTime": 11.000107,
        "RowsExamined": 0,
        "RowsSent": 0,
        "SqlMd5": "267171214708E27C",
        "SqlTemplate": "select sleep(?) limit ? offset ?;",
        "SqlText": "SELECT sleep(11) LIMIT 11 offset 0",
        "Timestamp": 1655891531,
        "UserHost": "11.186.190.10",
        "UserName": "root"
      },
      {
        "Database": "information_schema",
```

```
"LockTime": 0,
"QueryTime": 11.000104,
"RowsExamined": 0,
"RowsSent": 0,
"SqlMd5": "267171214708E27C",
"SqlTemplate": "select sleep(?) limit ? offset ?;",
"SqlText": "SELECT sleep(11) LIMIT 11 offset 0",
"Timestamp": 1655891520,
"UserHost": "11.186.190.10",
"UserName": "root"
},
{
  "Database": "information_schema",
  "LockTime": 0,
  "QueryTime": 11.000108,
  "RowsExamined": 0,
  "RowsSent": 0,
  "SqlMd5": "267171214708E27C",
  "SqlTemplate": "select sleep(?) limit ? offset ?;",
  "SqlText": "SELECT sleep(11) LIMIT 11 offset 0",
  "Timestamp": 1655891508,
  "UserHost": "11.186.190.10",
  "UserName": "root"
},
{
  "Database": "information_schema",
  "LockTime": 0,
  "QueryTime": 11.000122,
  "RowsExamined": 0,
  "RowsSent": 0,
  "SqlMd5": "267171214708E27C",
  "SqlTemplate": "select sleep(?) limit ? offset ?;",
  "SqlText": "SELECT sleep(11) LIMIT 11 offset 0",
  "Timestamp": 1655891496,
  "UserHost": "11.186.190.10",
  "UserName": "root"
}
],
"RequestId": "9e56617c-c7cc-44e1-a967-6beb418ad5e7"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.CamDeniedError	Failed to verify permissions
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Serverless APIs

ResumeServerless

Last updated : 2023-08-23 14:22:52

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to resume a serverless cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ResumeServerless.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

FlowId	Integer	Async task ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Resuming a serverless cluster

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ResumeServerless
<Common request parameters>

{
  "ClusterId": "cynosdbmysql-xxxx"
}
```

Output Example

```
{
  "Response": {
    "FlowId": 1008306,
    "RequestId": "37508f2e-23eb-11eb-a713-525400b7dd5a"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)

- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
InternalError.SystemError	Internal system error.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.ClusterNotFound	No cluster found.
InvalidParameterValue.DbModeNotServerlessError	The cluster type must be serverless.
InvalidParameterValue.ParamError	Incorrect parameter.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

PauseServerless

Last updated : 2023-08-23 14:22:53

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to pause a serverless cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: PauseServerless.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
ForcePause	No	Integer	Whether to pause forcibly and ignore the current user connections. Valid values: <code>0</code> (no), <code>1</code> (yes). Default value: <code>1</code>

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
FlowId	Integer	Async task ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Pausing a serverless cluster

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: PauseServerless
<Common request parameters>

{
  "ClusterId": "cynosdbmysql-8vcxoq75",
  "ForcePause": 1
}
```

Output Example

```
{
  "Response": {
    "FlowId": 1008306,
    "RequestId": "37508f2e-23eb-11eb-a713-525400b7dd5a"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
InternalServerError.SystemError	Internal system error.
InvalidParameterValue.ClusterNotFound	No cluster found.
InvalidParameterValue.DbModeNotServerlessError	The cluster type must be serverless.
InvalidParameterValue.ParamError	Incorrect parameter.
OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.

ResourcePackage APIs

BindClusterResourcePackages

Last updated : 2023-08-23 14:22:54

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to bind a resource pack to a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: BindClusterResourcePackages.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Packagelds.N	Yes	Array of String	The unique ID of a resource pack
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Binding a resource pack to the cluster

This example shows you how to bind a resource pack to a cluster.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TencentCloud-Action: BindClusterResourcePackages<common request parameters>{ "PackageIds": [ "abc" ], "ClusterId": "abc" }
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.BindSourcePackageError	Failed to bind a resource pack
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
FailedOperation.QuerySourcePackageError	Failed to query the resource pack
InternalServerError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalServerError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

CreateResourcePackage

Last updated : 2023-08-23 14:22:54

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to purchase a resource pack.

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: CreateResourcePackage.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceType	Yes	String	Instance type
PackageRegion	Yes	String	Region of the resource pack. Valid values: <code>China</code> (Chinese mainland), <code>overseas</code> (outside Chinese mainland).
PackageType	Yes	String	Resource pack type. Valid values: <code>CCU</code> (compute resource pack), <code>DISK</code> (storage resource pack).
PackageVersion	Yes	String	Resource pack edition. Valid values: <code>base</code> (basic edition), <code>common</code> (general edition), <code>enterprise</code> (enterprise edition).

PackageSpec	Yes	Float	Resource pack size. Unit of the compute resource pack: Ten thousand. Unit of the storage resource pack: GB
ExpireDay	Yes	Integer	Validity period of a resource pack in days
PackageCount	Yes	Integer	Number of the resource packs to be purchased
PackageName	No	String	Resource pack name

3. Output Parameters

Parameter Name	Type	Description
BigDealIds	Array of String	Big order number
DealNames	Array of String	Each item has only one <code>dealName</code> , through which you need to ensure the idempotency of the delivery API.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Purchasing a resource pack

This example shows you how to purchase a resource pack.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: CreateSourcePackage<common request parameters>{ "InstanceType": "abc",
"PackageRegion": "abc", "PackageType": "abc", "PackageVersion": "abc", "PackageSp
ec": 0, "ExpireDay": 0, "PackageName": "abc", "PackageCount": 0}
```

Output Example

```
{
  "Response": {
    "BigDealIds": [
```

```
"abc"
],
"DealNames": [
"abc"
],
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.CreateSourcePackageError	Failed to create a resource pack
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalServerError.SystemError	Internal system error.

InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeResourcePackageDetail

Last updated : 2023-08-23 14:22:54

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query the usage details of a resource pack.

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: DescribeResourcePackageDetail.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Packageld	Yes	String	The unique ID of a resource pack
ClusterIds.N	No	Array of String	Cluster ID
StartTime	No	String	Start time
EndTime	No	String	End time
Offset	No	String	Offset

Limit	No	String	Limit
InstanceIds.N	No	Array of String	Instance D

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of deducted resource packs
Detail	Array of PackageDetail	Resource pack 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 usage details of a resource pack

This example shows you how to query the usage details of a resource pack.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeResourcePackageDetail<common request parameters>{ "PackageId": "abc", "ClusterIds": [ "abc" ], "StartTime": "abc", "EndTime": "abc", "Offset": "abc", "Limit": "abc" }
```

Output Example

```
{
  "Response": {
    "Total": 0,
    "Detail": [
      {
        "AppId": 0,
        "PackageId": "abc",
        "InstanceId": "abc",
        "SuccessDeductSpec": 0,

```

```
"PackageTotalUsedSpec": 0,
"StartTime": "abc",
"EndTime": "abc",
"ExtendInfo": "abc"
},
"RequestId": "abc"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.QuerySourcePackageDetailError	Failed to query the consumption details of a resource pack
InternalServerError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.

UnauthorizedOperation.PermissionDenied	CAM authentication failed.
--	----------------------------

DescribeResourcePackageSaleSpec

Last updated : 2023-08-23 14:22:54

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query the specifications of a resource pack.

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: DescribeResourcePackageSaleSpec.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceType	Yes	String	Instance type
PackageRegion	Yes	String	Region of the resource pack. Valid values: <code>China</code> (Chinese mainland), <code>overseas</code> (outside Chinese mainland).
PackageType	Yes	String	Resource pack type. Valid values: <code>CCU</code> (compute resource pack, <code>DISK</code> (storage resource pack)).
Offset	No	Integer	Offset

Limit	No	Integer	Limit
-------	----	---------	-------

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of available resource packs
Detail	Array of SalePackageSpec	Resource pack details Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the specifications of a resource pack

This example shows you how to query the specifications of a resource pack.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeSourcePackageList<common request parameters>{ "PackageId": [ "abc" ], "PackageName": [ "abc" ], "PackageType": [ "abc" ], "PackageRegion": [ "abc" ], "Status": [ "abc" ], "OrderBy": [ "abc" ], "OrderDirection": "abc", "PackageRegion": "abc", "PackageType": "abc", "Offset": 0, "Limit": 0}
```

Output Example

```
{
  "Response": {
    "Total": 0,
    "Detail": [
      {
        "PackageRegion": "abc",
        "PackageType": "abc",
        "PackageVersion": "abc",
        "MinPackageSpec": 0,
        "MaxPackageSpec": 0,
        "ExpireDay": 0
      }
    ]
  }
}
```

```
}  
],  
"RequestId": "abc"  
}  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.UnSupportSaleSpecError	This type of specification is unavailable.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyResourcePackageName

Last updated : 2023-08-23 14:22:53

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to modify the name of a resource pack.

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: ModifyResourcePackageName.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
PackageId	Yes	String	The unique ID of a resource pack
PackageName	Yes	String	Custom resource pack name, which can contains up to 120 characters.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the name of a resource pack

This example shows you how to modify the name of a resource pack.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: ModifySourcePackageName<common request parameters>{ "PackageId": "abc", "PackageName": "abc" }
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

RefundResourcePackage

Last updated : 2023-08-23 14:22:53

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to refund a resource pack.

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: RefundResourcePackage.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
PackageId	Yes	String	The unique ID of a resource pack

3. Output Parameters

Parameter Name	Type	Description

DealNames	Array of String	Each item has only one <code>dealName</code> , through which you can ensure the idempotency of the delivery API.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Refund a resource pack

This example shows you how to refund a resource pack.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: RefundSourcePackage<common request parameters>{ "PackageId": "abc"}
```

Output Example

```
{
  "Response": {
    "DealNames": [
      "abc"
    ],
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.RefundSourcePackageError	Failed to refund the resource pack
InternalError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

UnbindClusterResourcePackages

Last updated : 2023-08-23 14:22:53

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to unbind a TDSQL-C for MySQL resource pack.

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: UnbindClusterResourcePackages.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
PackagIds.N	No	Array of String	The unique ID of a resource pack. If this parameter is left empty, all resource packs of the instance will be unbound.

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 Unbinding a TDSQL-C for MySQL resource pack

This example shows you how to unbind a TDSQL-C for MySQL resource pack.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TencentCloud-Action: UnbindSourcePackageCynos<common request parameters>{ "ClusterId": "abc" , "PackageIds": [ "abc" ] }
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.QuerySourcePackageError	Failed to query the resource pack
FailedOperation.UnBindSourcePackageError	Failed to unbind the resource pack
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeResourcePackageList

Last updated : 2024-07-19 11:36:42

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query the list of the resource packs.

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: DescribeResourcePackageList.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
PackageId.N	No	Array of String	The unique ID of a resource pack
PackageName.N	No	Array of String	Resource pack name
PackageType.N	No	Array of String	Resource pack type. Valid values: <code>CCU</code> (compute resource pack), <code>DISK</code> (storage resource pack).

PackageRegion.N	No	Array of String	Region of the resource pack. Valid values: <code>China</code> (Chinese mainland), <code>overseas</code> (outside Chinese mainland).
Status.N	No	Array of String	Resource pack status. Valid values: <code>using</code> , <code>expired</code> , <code>normal_finish</code> (used up), <code>apply_refund</code> (requesting a refund), <code>refund</code> (refunded).
OrderBy.N	No	Array of String	Sorting conditions. Valid values: <code>startTime</code> (effective time), <code>expireTime</code> (expiration date), <code>packageUsedSpec</code> (used capacity), <code>packageTotalSpec</code> (total storage capacity). Sorting by array order
OrderDirection	No	String	Sorting order. Valid values: <code>ASC</code> (ascending), <code>DESC</code> (descending).
Offset	No	Integer	Offset
Limit	No	Integer	Limit

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of resource packs
Detail	Array of Package	Resource pack details Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the list of the resource packs

This example shows you how to query the list of the resource packs.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-T
C-Action: DescribeSourcePackageList<common request parameters>{ "PackageId": [ "a
bc" ], "PackageName": [ "abc" ], "PackageType": [ "abc" ], "PackageRegion": [ "ab
c" ], "Status": [ "abc" ], "OrderBy": [ "abc" ], "OrderDirection": "abc", "Offse
t": 0, "Limit": 0}
```

Output Example

```
{
  "Response": {
    "Total": 0,
    "Detail": [
      {
        "AppId": 0,
        "PackageId": "abc",
        "PackageName": "abc",
        "PackageType": "abc",
        "PackageRegion": "abc",
        "Status": "abc",
        "PackageTotalSpec": 0,
        "PackageUsedSpec": 0,
        "HasQuota": true,
        "BindInstanceInfos": [
          {
            "InstanceId": "abc",
            "InstanceRegion": "abc",
            "InstanceType": "abc"
          }
        ],
        "StartTime": "abc",
        "ExpireTime": "abc"
      }
    ],
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [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.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.QuerySourcePackageError	Failed to query the resource pack
InternalError.DbOperationFailed	Failed to query the database.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyResourcePackageClusters

Last updated : 2024-07-19 10:55:34

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to bind a resource pack to a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyResourcePackageClusters.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Packageld	Yes	String	The unique ID of a resource pack
BindClusterIds.N	No	Array of String	ID of the cluster to be bound
UnbindClusterIds.N	No	Array of String	ID of the cluster to be unbound

3. Output Parameters

Parameter Name	Type	Description
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 Binding a resource pack to a cluster

This example shows you how to bind a resource pack to a cluster.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-Tencent-Action: ModifyResourcePackageClusters<common request parameters>{ "PackageId": "abc", "BindClusterIds": [ "abc" ], "UnbindClusterIds": [ "abc" ]}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [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.BindSourcePackageError	Failed to bind a resource pack
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
FailedOperation.QuerySourcePackageError	Failed to query the resource pack
FailedOperation.UnBindSourcePackageError	Failed to unbind the resource pack
InternalError.SystemError	Internal system error.
InternalError.UnknownError	Unknown internal error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Other APIs

CloseWan

Last updated : 2023-08-23 14:22:58

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to disable the public network.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CloseWan.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceGrpId	Yes	String	Instance group ID

3. Output Parameters

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 Disabling the public network for a read-only group.

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=CloseWan&InstanceGrpId=cynosdbmysql-g  
rp-o48ssqs5<common request parameters>
```

Output Example

```
{  
  "Response": {  
    "FlowId": 734,  
    "RequestId": "ed1bf4b2-4917-4f4f-9f7d-1562e34c9eeb"  
  }  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.GetNetServiceInfoError	Failed to query the network information of the access group
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.OperateWanFail	Public network operation failed.
InternalError.ServiceError	Internal service error
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamError	Incorrect parameter.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

CreateClusterDatabase

Last updated : 2023-08-23 14:22:58

1. API Description

Domain name for API request: cynosdb.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: CreateClusterDatabase.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
DbName	Yes	String	Database name
CharacterSet	Yes	String	Character set
CollateRule	Yes	String	Collation
UserHostPrivileges.N	No	Array of UserHostPrivilege	Host permissions of the authorized user

Description	No	String	Remarks
-------------	----	--------	---------

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 Creating a database

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: CreateClusterDatabase<common request parameters>{ "UserHostPrivileges": [ { "DbUserName": "root", "DbHost": "%", "DbPrivilege": "xx" } ], "CollateRule": "utf8_general_ci", "DbName": "test", "Description": "test-beizhu", "CharacterSet": "utf8", "ClusterId": "cynosdbmysql-xxxxxx" }
```

Output Example

```
{
  "Response": {
    "RequestId": "f569bea2-0a51-11ec-af61-525400542aa6"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)

- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.UnknownError	Unknown internal error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DeleteClusterDatabase

Last updated : 2023-08-23 14:22:58

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to delete 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: DeleteClusterDatabase.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
DbNames.N	Yes	Array of String	

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 Creating a database

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DeleteClusterDatabase<common request parameters>{ "DbNames": [ "test" ], "ClusterId": "cynosdbmysql-xxxxxx" }
```

Output Example

```
{
  "Response": {
    "RequestId": "f569bea2-0a51-11ec-af61-525400542aa6"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.UnknownError	Unknown internal error.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeClusterDetailDatabases

Last updated : 2023-08-23 14:22:58

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query the database list.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterDetailDatabases.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
Offset	No	Integer	Offset. Default value: 0 .
Limit	No	Integer	Number of returned results. Default value: 20 . Maximum value: 100 .
DbName	No	String	Database name

3. Output Parameters

Parameter Name	Type	Description
DbInfos	Array of DbInfo	Database information Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The total count
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the database list

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DescribeAccountPrivileges&ClusterId=cynosdbmysql-xxxxxxx&Host=xxx&AccountName=xxx&Db=xxx&Type=table&TableName=xx<common request parameters>cynosdbpg-xxxxxxx", "Limit": "20", "DbName": "test", "Offset": "0"}
```

Output Example

```
{
  "Response": {
    "DbInfos": [
      {
        "Status": "running",
        "UserHostPrivileges": [],
        "UpdateTime": "0001-01-01T00:00:00Z",
        "Description": "",
        "DbId": 0,
        "CharacterSet": "",
        "ClusterId": "",
        "DbName": "mysql",
        "Uin": "",
        "AppId": 0,
        "CollateRule": "",
        "CreateTime": "0001-01-01T00:00:00Z"
      }
    ]
  }
}
```

```
] ,
"TotalCount": 1,
"RequestId": "6e094b68-0a37-11ec-97e7-525400542aa6"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.

OperationDenied.InstanceStatusLimitError	The instance is not running.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyClusterDatabase

Last updated : 2023-08-23 14:22:57

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to modify 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: ModifyClusterDatabase.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
DbName	Yes	String	Database name
NewUserHostPrivileges.N	No	Array of UserHostPrivilege	Host permissions of the new authorized user
Description	No	String	Remarks

OldUserHostPrivileges.N	No	Array of UserHostPrivilege	Host permissions of previously authorized users
-------------------------	----	--	---

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 Creating a database

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: ModifyClusterDatabase<common request parameters>{ "OldUserHostPrivileges": [ { "DbUserName": "xx", "DbHost": "xx", "DbPrivilege": "xx" } ], "NewUserHostPrivileges": [ { "DbUserName": "xx", "DbHost": "xx", "DbPrivilege": "xx" } ], "ClusterId": "xx", "DbName": "xx", "Description": "xx"}
```

Output Example

```
{
  "Response": {
    "RequestId": "f569bea2-0a51-11ec-af61-525400542aa6"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

OpenWan

Last updated : 2023-08-23 14:22:56

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to enable the public network.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: OpenWan.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceGrpId	Yes	String	Instance group ID

3. Output Parameters

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 Enabling the public network for the read-only group

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=OpenWan&InstanceGrpId=cynosdbmysql-grp-o48ssqs5<common request parameters>
```

Output Example

```
{
  "Response": {
    "FlowId": 734,
    "RequestId": "ed1bf4b2-4917-4f4f-9f7d-1562e34c9eeb"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.GetNetServiceInfoError	Failed to query the network information of the access group
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.OperateWanFail	Public network operation failed.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamError	Incorrect parameter.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

SwitchClusterVpc

Last updated : 2024-07-19 12:09:42

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to modify the cluster VPC.

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: SwitchClusterVpc.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
UniqVpcId	Yes	String	VPC ID in string
UniqSubnetId	Yes	String	Subnet ID in string
OldIpReserveHours	Yes	Integer	Valid hours of old IP

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task 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 Switching network

This example shows you how to switch network.

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: SwitchClusterVpc
<Common request parameters>

{
  "ClusterId": "abc",
  "UniqVpcId": "abc",
  "UniqSubnetId": "abc",
  "OldIpReserveHours": 0
}
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": 123
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.SystemError	Internal system error.
InvalidParameterValue.ParamError	Incorrect parameter.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

OpenReadOnlyInstanceExclusiveAccess

Last updated : 2023-08-23 14:22:57

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to enable the dedicated access group for a read-only 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: OpenReadOnlyInstanceExclusiveAccess.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
InstanceId	Yes	String	ID of the read-only instance with dedicated access to be enabled
VpcId	Yes	String	Specified VPC ID
SubnetId	Yes	String	Specified subnet ID
Port	Yes	Integer	Port

SecurityGroupIds.N	No	Array of String	Security group
--------------------	----	-----------------	----------------

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Activation process ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 ex:

This example shows you how to enable the dedicated access for a read-only instance in any scenario.

Input Example

```
POST / HTTP/1.1Host: cynosdb.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: OpenClusterPasswordComplexity<common request parameters>{ "ValidatePasswordLength": 0, "ValidatePasswordMixedCaseCount": 0, "ValidatePasswordDictionary": [ "admin" ], "ClusterId": "cynosdbmysql-qwertyui", "InstanceId": "cynosdbmysql-ins-asdfghjk", "VpcId": "vpc-asdfghjk", "SubnetId": "subnet-qwertyui", "Port": 3306, "SecurityGroupIds": [ "SecurityGroupIds1", "SecurityGroupIds2" ]}
```

Output Example

```
{
  "Response": {
    "FlowId": "12345",
    "RequestId": "123123123123123"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.SystemError	Internal system error.
InvalidParameterValue.ParamError	Incorrect parameter.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

OpenClusterReadOnlyInstanceGroupAccess

Last updated : 2024-07-19 12:12:09

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to enable the access to read-only instance group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: OpenClusterReadOnlyInstanceGroupAccess.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
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
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 ex:

This example shows you how to enable the dedicated access for a read-only instance group in any scenario.

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: OpenClusterReadOnlyInstanceGroupAccess
<Common request parameters>

{ }
```

Output Example

```
{
  "Response": {
    "RequestId": "qwertyuiop"
  }
}
```

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.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamError	Incorrect parameter.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyDBInstanceSecurityGroups

Last updated : 2023-08-23 14:22:57

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to modify the security groups bound to 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: ModifyDBInstanceSecurityGroups.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance group ID
SecurityGroupIds.N	Yes	Array of String	List of IDs of security groups to be modified, which is an array of one or more security group IDs.
Zone	Yes	String	AZ

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 security groups bound to instance

This example shows you how to modify a security group.

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyDBInstanceSecurityGroups
<Common request parameters>

{
  "InstanceId": "abc",
  "SecurityGroupIds": [
    "abc"
  ],
  "Zone": "abc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.ListInstanceFailed	Failed to query instances by security group.
InternalError.QueryDatabaseFailed	Failed to query the database.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeProjectSecurityGroups

Last updated : 2023-08-23 14:22:58

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query the security group information of a project.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeProjectSecurityGroups.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ProjectId	No	Integer	Project ID
Limit	No	Integer	Maximum entries returned per page
Offset	No	Integer	Offset
SearchKey	No	String	Search by keyword

3. Output Parameters

Parameter Name	Type	Description
Groups	Array of SecurityGroup	Security group details
Total	Integer	The total number of groups
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the security group information of a project

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeProjectSecurityGroups
<Common request parameters>

{
  "ProjectId": "11954"
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "Groups": [
      {
        "CreateTime": "2017-04-13 15:00:06",
        "Inbound": [],
        "Outbound": [],
        "ProjectId": 0,
        "SecurityGroupId": "sg-ajr1jzgj",
        "SecurityGroupName": "CynosDB",
        "SecurityGroupRemark": ""
      }
    ]
  }
}
```

```
}  
],  
"RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"  
}  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError	Internal error.
InternalError.GetSecurityGroupDetailFailed	Failed to get the security group information.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeDBSecurityGroups

Last updated : 2023-08-18 14:30:39

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query the security group information of an instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDBSecurityGroups.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance group ID

3. Output Parameters

Parameter Name	Type	Description

Groups	Array of SecurityGroup	Security group information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the security group information of an instance

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeDBSecurityGroups
<Common request parameters>

{
  "InstanceId": "cynosdbpg-ins-jhi2gdi0"
}
```

Output Example

```
{
  "Response": {
    "Groups": [
      {
        "CreateTime": "2017-04-13 15:00:06",
        "Inbound": [],
        "Outbound": [],
        "ProjectId": 0,
        "SecurityGroupId": "sg-ajr1jzgj",
        "SecurityGroupName": "CynosDB",
        "SecurityGroupRemark": ""
      }
    ],
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalServerError.GetSecurityGroupDetailFailed	Failed to get the security group information.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
OperationDenied.CamDeniedError	Failed to verify permissions
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

SwitchProxyVpc

Last updated : 2023-08-23 14:22:56

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to modify the database proxy VPC.

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: SwitchProxyVpc.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
UniqVpcId	Yes	String	VPC ID in string
UniqSubnetId	Yes	String	Subnet ID in string
OldIpReserveHours	Yes	Integer	Valid hours of old IP
ProxyGroupId	No	String	Database proxy group ID (required), which can be obtained through the <code>DescribeProxies</code> API.

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Switching network

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: SwitchProxyVpc
<Common request parameters>

{
  "OldIpReserveHours": "0",
  "UniqSubnetId": "xx",
  "ClusterId": "xxx",
  "UniqVpcId": "xx",
  "ProxyGroupId": "xx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamError	Incorrect parameter.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeFlow

Last updated : 2023-08-23 14:22:58

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query task flow information.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeFlow.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
FlowId	Yes	Integer	Task flow ID

3. Output Parameters

Parameter Name	Type	Description
Status	Integer	Task flow status. Valid values: <code>0</code> (succeeded), <code>1</code> (failed), <code>2</code> (Processing).

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Querying task flow information

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=DescribeFlow
&FlowId=123
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Status": 0,
    "RequestId": "186253"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowNotFoundError	The task flow does not exist.
InternalError.DbOperationFailed	Failed to query the database.
InvalidParameterValue.FlowNotFound	Taskflow ID doesn't exist.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

DescribeZones

Last updated : 2023-08-23 14:22:57

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to query the AZ information in a purchasable region.

A maximum of 1000 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: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
IncludeVirtualZones	No	Boolean	Whether the virtual zone is included.–
ShowPermission	No	Boolean	Whether to display all AZs in a region and the user's permissions in each AZ.

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RegionSet	Array of SaleRegion	Region information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the AZ information in a purchasable region

This example shows you how to only view AZs for which the user has permissions.

Input Example

```
POST / HTTP/1.1
Host: cynosdb.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeZones
<Common request parameters>

{ }
```

Output Example

```
{
  "Response": {
    "RegionSet": [
      {
        "DbType": "xx",
        "Region": "xx",
        "RegionId": 1,
        "Modules": [
          {
            "ModuleName": "xx",
            "IsDisable": "xx"
          }
        ],
        "RegionZh": "xx",
        "ZoneSet": [
          {
            "PhysicalZone": "xx",
            "Zone": "xx",

```

```
"IsSupportServerless": 0,
"ZoneId": 100003,
"IsSupportNormal": 0,
"ZoneZh": "xx"
},
{
  "PhysicalZone": "xx",
  "Zone": "xx",
  "IsSupportServerless": 0,
  "ZoneId": 100003,
  "IsSupportNormal": 0,
  "ZoneZh": "xx"
},
{
  "PhysicalZone": "xx",
  "Zone": "xx",
  "IsSupportServerless": 0,
  "ZoneId": 100004,
  "IsSupportNormal": 0,
  "ZoneZh": "xx"
}
]
},
{
  "DbType": "xx",
  "Region": "xx",
  "RegionId": 8,
  "Modules": [
    {
      "ModuleName": "xx",
      "IsDisable": "xx"
    }
  ],
  "RegionZh": "xx",
  "ZoneSet": [
    {
      "PhysicalZone": "xx",
      "Zone": "xx",
      "IsSupportServerless": 0,
      "ZoneId": 800001,
      "IsSupportNormal": 0,
      "ZoneZh": "xx"
    }
  ]
}
],
"RequestId": "xx"
```



```
}  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
InternalError.DbOperationFailed	Failed to query the database.
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

ModifyVipVport

Last updated : 2023-08-23 14:22:57

1. API Description

Domain name for API request: cynosdb.tencentcloudapi.com.

This API is used to modify the IP and port of an instance group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyVipVport.
Version	Yes	String	Common Params . The value used for this API: 2019-01-07.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
InstanceGrpId	Yes	String	Instance group ID
Vip	No	String	Target IP to be modified
Vport	No	Integer	Target port to be modified
DbType	No	String	Database type. Valid values: MYSQL
OldIpReserveHours	No	Integer	Valid hours of old IPs. If it is set to 0 hours, the IPs will be

			released immediately.
--	--	--	-----------------------

3. Output Parameters

Parameter Name	Type	Description
FlowId	Integer	Async task ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying an IP port

Input Example

```
https://cynosdb.tencentcloudapi.com/?Action=ModifyVipVport
&ClusterId=xxx
&InstanceGrpId=xxx
&Vip=xx.xx.xx.xx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "128046",
    "FlowId": "123"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem persists, contact customer service.
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
InternalError.SystemError	Internal system error.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.ParamError	Incorrect parameter.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.

Data Types

Last updated : 2024-07-19 11:36:21

Ability

Features supported by the cluster

Used by actions: DescribeClusterDetail, DescribeClusters.

Name	Type	Required	Description
IsSupportSlaveZone	String	Yes	Whether secondary AZ is supported
NonsupportSlaveZoneReason	String	Yes	The reason why secondary AZ is not supported Note: This field may return null, indicating that no valid values can be obtained.
IsSupportRo	String	Yes	Whether read-only instance is supported
NonsupportRoReason	String	Yes	The reason why read-only instance is not supported Note: This field may return null, indicating that no valid values can be obtained.

Account

Database account information

Used by actions: DescribeAccounts.

Name	Type	Description
AccountName	String	Database account name
Description	String	Database account description
CreateTime	Timestamp	Creation time
UpdateTime	Timestamp	Update time
Host	String	Host
MaxUserConnections	Integer	The max connections

Addr

Database address

Used by actions: DescribeClusterDetail.

Name	Type	Description
IP	String	IP address
Port	Integer	Port

AuditRuleFilters

Filter of rule audit

Used by actions: DescribeAuditRuleWithInstanceIds, ModifyAuditService, OpenAuditService.

Name	Type	Required	Description
RuleFilters	Array of RuleFilters	Yes	Audit rule

AuditRuleTemplateInfo

Details of an audit rule template

Used by actions: DescribeAuditRuleTemplates.

Name	Type	Description
RuleTemplateId	String	Rule template ID
RuleTemplateName	String	Rule template name
RuleFilters	Array of RuleFilters	Filter of the rule template
Description	String	Description of a rule template Note: This field may return null, indicating that no valid values can be obtained.
CreateAt	String	Creation time of a rule template

BackupFileInfo

Backup file information

Used by actions: DescribeBackupList.

Name	Type	Description
SnapshotId	Integer	Snapshot file ID, which is deprecated. You need to use <code>BackupId</code> .
FileName	String	Backup file name
FileSize	Integer	Backup file size
StartTime	String	Backup start time
FinishTime	String	Backup end time
BackupType	String	Backup type. Valid values: <code>snapshot</code> (snapshot backup), <code>logic</code> (logic backup).
BackupMethod	String	Back mode. auto: auto backup; manual: manual backup
BackupStatus	String	Backup file status. success: backup succeeded; fail: backup failed; creating: creating backup file; deleting: deleting backup file
SnapshotTime	String	Backup file time
BackupId	Integer	Backup ID Note: This field may return null, indicating that no valid values can be obtained.
SnapShotType	String	
BackupName	String	Backup file alias Note: This field may return null, indicating that no valid values can be obtained.

BillingResourceInfo

Billable resource information

Used by actions: DescribeResourcesByDealName.

Name	Type	Description
ClusterId	String	Cluster ID

InstanceIds	Array of String	Instance ID list
DealName	String	Order ID

BindInstanceInfo

Information of the instance bound to the resource pack

Used by actions: DescribeResourcePackageList.

Name	Type	Description
InstanceId	String	ID of the bound cluster Note: This field may return null, indicating that no valid values can be obtained.
InstanceRegion	String	Region of the instance bound Note: This field may return null, indicating that no valid values can be obtained.
InstanceType	String	Type of the instance bound Note: This field may return null, indicating that no valid values can be obtained.
ExtendIds	Array of String	ID of the instance in the bound cluster Note: This field may return null, indicating that no valid values can be obtained.

BinlogItem

Binlog description

Used by actions: DescribeBinlogs.

Name	Type	Description
FileName	String	Binlog filename
FileSize	Integer	File size in bytes
StartTime	String	Transaction start time
FinishTime	String	Transaction end time
BinlogId	Integer	Binlog file ID

ClusterInstanceDetail

Cluster instance information

Used by actions: DescribeClusterDetail.

Name	Type	Description
InstanceId	String	Instance ID
InstanceName	String	Instance name
InstanceType	String	Engine type
InstanceStatus	String	Instance status
InstanceStatusDesc	String	Instance status description
InstanceCpu	Integer	Number of CPU cores
InstanceMemory	Integer	Memory
InstanceStorage	Integer	Disk
InstanceRole	String	Instance role
MaintainStartTime	Integer	Execution start time in seconds from 0:00 Note: This field may return null, indicating that no valid values can be obtained.
MaintainDuration	Integer	Duration in seconds Note: This field may return null, indicating that no valid values can be obtained.
MaintainWeekDays	Array of String	Execution time. Valid values: <code>Mon</code> , <code>Tue</code> , <code>Wed</code> , <code>Thu</code> , <code>Fri</code> , <code>Sat</code> , <code>Sun`</code> . Note: This field may return null, indicating that no valid values can be obtained.
ServerlessStatus	String	Serverless instance enablement status Note: This field may return null, indicating that no valid values can be obtained.
InstanceTasks	Array of ObjectTask	
InstanceDeviceType	String	

CynosdbCluster

Cluster information

Used by actions: DescribeClusters.

Name	Type	Required	Description
Status	String	Yes	Cluster status. Valid values are as follows: creating running isolating isolated activating (removing isolation) offlining (deactivating) offlined (deactivated) deleting deleted
UpdateTime	String	Yes	Update time
Zone	String	Yes	AZ
ClusterName	String	Yes	Cluster name
Region	String	Yes	Region
DbVersion	String	Yes	Database version
ClusterId	String	Yes	Cluster ID
InstanceNum	Integer	Yes	Number of instances
Uin	String	Yes	User UIN Note: This field may return null, indicating that no valid values can be obtained.
DbType	String	Yes	Engine type Note: This field may return null, indicating that no valid values can be obtained.
AppId	Integer	Yes	User <code>appid</code> Note: This field may return null, indicating that no valid values can be obtained.
StatusDesc	String	Yes	Cluster status description Note: This field may return null, indicating that no

			valid values can be obtained.
CreateTime	String	Yes	Cluster creation time Note: This field may return null, indicating that no valid values can be obtained.
PayMode	Integer	Yes	Billing mode. <code>0</code> : Pay-as-you-go; <code>1</code> : Monthly subscription. Note: This field may return null, indicating that no valid values can be obtained.
PeriodEndTime	String	Yes	End time Note: This field may return null, indicating that no valid values can be obtained.
Vip	String	Yes	Cluster read-write VIP Note: This field may return null, indicating that no valid values can be obtained.
Vport	Integer	Yes	Cluster read-write vport Note: This field may return null, indicating that no valid values can be obtained.
ProjectID	Integer	Yes	Project ID Note: This field may return null, indicating that no valid values can be obtained.
VpcId	String	No	VPC ID Note: This field may return null, indicating that no valid values can be obtained.
SubnetId	String	No	Subnet ID Note: This field may return null, indicating that no valid values can be obtained.
CynosVersion	String	No	TDSQL-C kernel version Note: This field may return null, indicating that no valid values can be obtained.
StorageLimit	Integer	No	Storage capacity Note: This field may return null, indicating that no valid values can be obtained.
RenewFlag	Integer	No	Renewal flag Note: This field may return null, indicating that no valid values can be obtained.
ProcessingTask	String	No	Task in progress

			Note: This field may return null, indicating that no valid values can be obtained.
Tasks	Array of ObjectTask	No	Array of tasks in the cluster Note: This field may return null, indicating that no valid values can be obtained.
ResourceTags	Array of Tag	No	Array of tags bound to the cluster Note: This field may return null, indicating that no valid values can be obtained.
DbMode	String	No	Database type. Valid values: <code>NORMAL</code> , <code>SERVERLESS</code> . Note: This field may return null, indicating that no valid values can be obtained.
ServerlessStatus	String	No	Serverless cluster status when the database type is <code>SERVERLESS</code> . Valid values: <code>resume</code> , <code>pause</code> . Note: This field may return null, indicating that no valid values can be obtained.
Storage	Integer	No	Prepaid cluster storage capacity Note: This field may return null, indicating that no valid values can be obtained.
StorageId	String	No	Cluster storage ID used in prepaid storage modification Note: This field may return null, indicating that no valid values can be obtained.
StoragePayMode	Integer	No	Billing mode of cluster storage. Valid values: <code>0</code> (pay-as-you-go), <code>1</code> (monthly subscription). Note: This field may return null, indicating that no valid values can be obtained.
MinStorageSize	Integer	No	The minimum storage corresponding to the compute specification of the cluster Note: This field may return null, indicating that no valid values can be obtained.
MaxStorageSize	Integer	No	The maximum storage corresponding to the compute specification of the cluster Note: This field may return null, indicating that no valid values can be obtained.

NetAddrs	Array of NetAddr	No	Network information of the cluster Note: This field may return null, indicating that no valid values can be obtained.
PhysicalZone	String	No	Physical AZ Note: This field may return null, indicating that no valid values can be obtained.
MasterZone	String	No	Primary AZ Note: This field may return null, indicating that no valid values can be obtained.
HasSlaveZone	String	No	Whether there is a secondary AZ Note: This field may return null, indicating that no valid values can be obtained.
SlaveZones	Array of String	No	Secondary AZ Note: This field may return null, indicating that no valid values can be obtained.
BusinessType	String	No	Business type Note: This field may return null, indicating that no valid values can be obtained.
IsFreeze	String	No	Whether to freeze Note: This field may return null, indicating that no valid values can be obtained.
OrderSource	String	No	Order source Note: This field may return null, indicating that no valid values can be obtained.
Ability	Ability	No	Capability Note: This field may return null, indicating that no valid values can be obtained.
ResourcePackages	Array of ResourcePackage	No	Information of the resource pack bound to an instance when <code>packageType</code> is <code>DISK</code> . Note: This field may return null, indicating that no valid values can be obtained.

CynosdbClusterDetail

Cluster details

Used by actions: DescribeClusterDetail.

Name	Type	Description
ClusterId	String	Cluster ID
ClusterName	String	Cluster name
Region	String	Region
Zone	String	AZ
PhysicalZone	String	Physical AZ Note: This field may return null, indicating that no valid values can be obtained.
Status	String	Status
StatusDesc	String	Status description
ServerlessStatus	String	Serverless cluster status when the database type is <code>SERVERLESS</code> . Valid values: resume resuming pause pausing
StorageId	String	Storage ID Note: This field may return null, indicating that no valid values can be obtained.
Storage	Integer	Storage capacity in GB Note: This field may return null, indicating that no valid values can be obtained.
MaxStorageSize	Integer	Maximum storage specification in GB Note: This field may return null, indicating that no valid values can be obtained.
MinStorageSize	Integer	Minimum storage specification in GB Note: This field may return null, indicating that no valid values can be obtained.
StoragePayMode	Integer	Storage billing mode. Valid values: <code>1</code> (monthly subscription), <code>0</code> (pay-as-you-go). Note: This field may return null, indicating that no valid values can be obtained.

VpcName	String	VPC name
VpcId	String	Unique VPC ID
SubnetName	String	Subnet name
SubnetId	String	Subnet ID
Charset	String	Character set
CreateTime	String	Creation time
DbType	String	Database type
DbMode	String	Database type. Valid values: <code>normal</code> , <code>serverless</code> . Note: This field may return null, indicating that no valid values can be obtained.
DbVersion	String	Database version
StorageLimit	Integer	Maximum storage space Note: This field may return null, indicating that no valid values can be obtained.
UsedStorage	Integer	Used capacity
Vip	String	VIP
Vport	Integer	vport
RoAddr	Array of Addr	VIP u200dand vport of the read-only instance in a cluster
Ability	Ability	Features supported by the cluster Note: This field may return null, indicating that no valid values can be obtained.
CynosVersion	String	TDSQL-C version Note: This field may return null, indicating that no valid values can be obtained.
BusinessType	String	Business type Note: This field may return null, indicating that no valid values can be obtained.
HasSlaveZone	String	Whether there is a secondary AZ Note: This field may return null, indicating that no valid

		values can be obtained.
IsFreeze	String	Whether to freeze Note: This field may return null, indicating that no valid values can be obtained.
Tasks	Array of ObjectTask	Task list Note: This field may return null, indicating that no valid values can be obtained.
MasterZone	String	Primary AZ Note: This field may return null, indicating that no valid values can be obtained.
SlaveZones	Array of String	Secondary AZ list Note: This field may return null, indicating that no valid values can be obtained.
InstanceSet	Array of ClusterInstanceDetail	Instance information
PayMode	Integer	Billing mode
PeriodEndTime	String	Expiration time
ProjectID	Integer	Project ID
ResourceTags	Array of Tag	Array of tags bound to instance
ProxyStatus	String	Proxy status Note: This field may return null, indicating that no valid values can be obtained.
LogBin	String	Binlog switch. Valid values: <code>ON</code> , <code>OFF</code> . Note: This field may return null, indicating that no valid values can be obtained.
IsSkipTrade	String	Whether to skip the transaction Note: This field may return null, indicating that no valid values can be obtained.
PitrType	String	PITR type. Valid values: <code>normal</code> , <code>redo_pitr</code> . Note: This field may return null, indicating that no valid values can be obtained.
IsOpenPasswordComplexity	String	Whether to enable password complexity Note: This field may return null, indicating that no valid values can be obtained.

NetworkStatus	String	Network type Note: This field may return null, indicating that no valid values can be obtained.
ResourcePackages	Array of ResourcePackage	Information of the resource pack bound to a cluster Note: This field may return null, indicating that no valid values can be obtained.
RenewFlag	Integer	The auto-renewal flag. Valid values: <code>0</code> : (manual renewal, default), <code>1</code> (auto-renewal). Note: This field may return null, indicating that no valid values can be obtained.

CynosdbErrorLogItem

Types of the returned error logs for an instance

Used by actions: DescribeInstanceErrorLogs.

Name	Type	Description
Timestamp	Integer	Log timestamp Note: This field may return null, indicating that no valid values can be obtained.
Level	String	Log level Note: This field may return null, indicating that no valid values can be obtained.
Content	String	Log content Note: This field may return null, indicating that no valid values can be obtained.

CynosdbInstance

Instance information

Used by actions: DescribeClusterInstanceGrps, DescribeInstances.

Name	Type	Description
Uin	String	User <code>Uin</code>
AppId	Integer	User <code>AppId</code>
ClusterId	String	Cluster ID

ClusterName	String	Cluster name
InstanceId	String	Instance ID
InstanceName	String	Instance name
ProjectId	Integer	Project ID
Region	String	Region
Zone	String	AZ
Status	String	Instance status
StatusDesc	String	Instance status description
DbMode	String	Instance type, which is used to indicate whether it is a serverless instance.
DbType	String	Database type
DbVersion	String	Database version
Cpu	Integer	Number of CPU cores
Memory	Integer	Memory in GB
Storage	Integer	Storage capacity in GB
InstanceType	String	Instance type
InstanceRole	String	Current instance role
UpdateTime	Timestamp	Update time
CreateTime	Timestamp	Creation time
VpcId	String	VPC ID
SubnetId	String	Subnet ID
Vip	String	Private IP of instance
Vport	Integer	Private port of instance
PayMode	Integer	Billing mode
PeriodEndTime	Timestamp	Instance expiration time

DestroyDeadlineText	String	Termination deadline
IsolateTime	Timestamp	Isolation time
NetType	Integer	Network type
WanDomain	String	Public domain name
WanIP	String	Public IP
WanPort	Integer	Public port
WanStatus	String	Public network status
DestroyTime	String	Instance termination time
CynosVersion	String	TDSQL-C kernel version
ProcessingTask	String	Task in progress
RenewFlag	Integer	Renewal flag
MinCpu	Float	Minimum number of CPU cores for serverless instance
MaxCpu	Float	Maximum number of CPU cores for serverless instance
ServerlessStatus	String	Serverless instance status. Valid values: resume pause
StorageId	String	Prepaid storage ID Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
StoragePayMode	Integer	Storage billing mode
PhysicalZone	String	Physical zone
BusinessType	String	Business type Note: This field may return null, indicating that no valid value can be obtained.
Tasks	Array of ObjectTask	Task Note: This field may return null, indicating that no valid values can be obtained.
IsFreeze	String	Whether to freeze Note: This field may return null, indicating that no valid values can be obtained.

ResourceTags	Array of Tag	The resource tag Note: This field may return null, indicating that no valid values can be obtained.
MasterZone	String	Source AZ Note: This field may return null, indicating that no valid value can be obtained.
SlaveZones	Array of String	Replica AZ Note: This field may return null, indicating that no valid value can be obtained.
InstanceNetInfo	Array of InstanceNetInfo	Instance network information Note: This field may return null, indicating that no valid value can be obtained.
ResourcePackages	Array of ResourcePackage	Information of the resource pack bound to an instance when <code>packageType</code> is <code>CCU</code> . Note: This field may return null, indicating that no valid values can be obtained.

CynosdbInstanceDetail

Instance details

Used by actions: DescribeInstanceDetail.

Name	Type	Description
Uin	String	User <code>Uin</code>
AppId	Integer	User <code>AppId</code>
ClusterId	String	Cluster ID
ClusterName	String	Cluster name
InstanceId	String	Instance ID
InstanceName	String	Instance name
ProjectId	Integer	Project ID
Region	String	Region
Zone	String	AZ

Status	String	Instance status
StatusDesc	String	Instance status description
DbType	String	Database type
DbVersion	String	Database version
Cpu	Integer	Number of CPU cores
Memory	Integer	Memory in GB
Storage	Integer	Storage capacity in GB
InstanceType	String	Instance type
InstanceRole	String	Current instance role
UpdateTime	Timestamp	Update time
CreateTime	Timestamp	Creation time
PayMode	Integer	Billing mode
PeriodEndTime	Timestamp	Instance expiration time
NetType	Integer	Network type
VpcId	String	VPC ID
SubnetId	String	Subnet ID
Vip	String	Private IP of instance
Vport	Integer	Private port of instance
WanDomain	String	Public domain name of instance
Charset	String	Character set
CynosVersion	String	TDSQL-C kernel version
RenewFlag	Integer	Renewal flag
MinCpu	Float	The minimum number of CPU cores for a serverless instance
MaxCpu	Float	The maximum number of CPU cores for a serverless instance
ServerlessStatus	String	Serverless instance status. Valid values: resume

		pause
--	--	-------

CynosdbInstanceGrp

Instance group information

Used by actions: DescribeClusterInstanceGrps.

Name	Type	Description
AppId	Integer	User <code>appId</code>
ClusterId	String	Cluster ID
CreatedTime	Timestamp	Creation time
DeletedTime	Timestamp	Deletion time
InstanceGrpId	String	Instance group ID
Status	String	Status
Type	String	Instance group type. ha: HA group; ro: RO group
UpdatedTime	Timestamp	Update time
Vip	String	Private IP
Vport	Integer	Private port
WanDomain	String	Public domain name
WanIP	String	Public IP
WanPort	Integer	Public port
WanStatus	String	Public network status
InstanceSet	Array of CynosdbInstance	Information of instances contained in instance group
UniqVpcId	String	VPC ID Note: This field may return null, indicating that no valid values can be obtained.
UniqSubnetId	String	Subnet ID Note: This field may return null, indicating that no valid values can

		be obtained.
OldAddrInfo	OldAddrInfo	Information of the old IP Note: This field may return null, indicating that no valid values can be obtained.
ProcessingTasks	Array of String	Task in progress
Tasks	Array of ObjectTask	Task list
NetServiceId	Integer	biz_net_service table ID

DatabasePrivileges

Database permission list

Used by actions: [ModifyAccountPrivileges](#).

Name	Type	Required	Description
Db	String	Yes	Database
Privileges	Array of String	Yes	Permission list

DatabaseTables

Database table information

Used by actions: [CreateBackup](#), [SearchClusterTables](#).

Name	Type	Required	Description
Database	String	No	Database name Note: This field may return null, indicating that no valid values can be obtained.
Tables	Array of String	No	Table name list Note: This field may return null, indicating that no valid values can be obtained.

DbInfo

Database details

Used by actions: DescribeClusterDetailDatabases.

Name	Type	Description
DbName	String	Database name
CharacterSet	String	Character set
Status	String	Database status
CollateRule	String	Collation
Description	String	Database remarks Note: This field may return null, indicating that no valid values can be obtained.
UserHostPrivileges	Array of UserHostPrivilege	User permissions Note: This field may return null, indicating that no valid values can be obtained.
DbId	Integer	Database ID Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Timestamp ISO8601	Creation time Note: This field may return null, indicating that no valid values can be obtained.
UpdateTime	Timestamp ISO8601	Update time Note: This field may return null, indicating that no valid values can be obtained.
AppId	Integer	User appid Note: This field may return null, indicating that no valid values can be obtained.
Uin	String	User Uin Note: This field may return null, indicating that no valid values can be obtained.
ClusterId	String	Cluster ID Note: This field may return null, indicating that no valid values can be obtained.

ErrorLogItemExport

The export format for an error log

Used by actions: ExportInstanceErrorLogs.

Name	Type	Required	Description

Timestamp	String	No	Time Note: This field may return null, indicating that no valid values can be obtained.
Level	String	No	Log level. Valid values: <code>error</code> , <code>warning</code> , <code>note</code> . Note: This field may return null, indicating that no valid values can be obtained.
Content	String	No	Log content Note: This field may return null, indicating that no valid values can be obtained.

InputAccount

Account. Valid values: `accountName` , `host` .

Used by actions: DeleteAccounts, ModifyAccountHost, ModifyAccountPrivileges.

Name	Type	Required	Description
AccountName	String	Yes	Account
Host	String	No	Host. Default value: <code>%</code>

InstanceAuditRule

Audit rule details of the instance, which is an output parameter of the `DescribeAuditRuleWithInstanceIds` API.

Used by actions: DescribeAuditRuleWithInstanceIds.

Name	Type	Description
InstanceId	String	Instance ID.
AuditRule	Boolean	Whether the audit is rule audit. Valid values: <code>true</code> (rule audit), <code>false</code> (full audit). Note: This field may return null, indicating that no valid values can be obtained.
AuditRuleFilters	Array of AuditRuleFilters	Audit rule details, which is valid only when <code>AuditRule</code> is <code>true</code> . Note: This field may return null, indicating that no valid values can be obtained.

InstanceInitInfo

Instance initialization configuration information

Used by actions: CreateClusters.

Name	Type	Required	Description
Cpu	Integer	Yes	Instance CPU
Memory	Integer	Yes	Instance memory
InstanceType	String	Yes	Instance type. Valid values: <code>rw</code> , <code>ro</code> .
InstanceCount	Integer	Yes	Number of the instances. Value range: 1-15.
MinRoCount	Integer	No	Minimum number of serverless instances. Value range: 1-15.
MaxRoCount	Integer	No	Maximum number of serverless instances. Value range: 1-15.
MinRoCpu	Float	No	Minimum specifications for serverless instance
MaxRoCpu	Float	No	Maximum specifications for serverless instance

InstanceNetInfo

Instance network information

Used by actions: DescribeInstances.

Name	Type	Description
InstanceGroupType	String	Network type Note: This field may return null, indicating that no valid values can be obtained.
InstanceGroupId	String	Instance group ID Note: This field may return null, indicating that no valid values can be obtained.
VpcId	String	VPC ID Note: This field may return null, indicating that no valid values can be obtained.
SubnetId	String	Subnet ID

		Note: This field may return null, indicating that no valid values can be obtained.
NetType	Integer	Network type Note: This field may return null, indicating that no valid values can be obtained.
Vip	String	VPC IP Note: This field may return null, indicating that no valid values can be obtained.
Vport	Integer	VPC port Note: This field may return null, indicating that no valid values can be obtained.
WanDomain	String	Public network domain name Note: This field may return null, indicating that no valid values can be obtained.
WanIP	String	
WanPort	Integer	Public network port Note: This field may return null, indicating that no valid values can be obtained.
WanStatus	String	Public network status Note: This field may return null, indicating that no valid values can be obtained.

InstanceParamItem

Instance parameter information

Used by actions: DescribeInstanceParams.

Name	Type	Description
InstanceId	String	Instance ID
ParamsItems	Array of ParamItemDetail	List of instance parameters

InstanceSpec

Details of purchasable instance specifications. `Cpu` and `Memory` determine the instance specification during instance creation. The value range of the storage capacity is [MinStorageSize,MaxStorageSize]

Used by actions: DescribeInstanceSpecs.

Name	Type	Description
Cpu	Integer	Number of instance CPU cores
Memory	Integer	Instance memory in GB
MaxStorageSize	Integer	Maximum instance storage capacity GB
MinStorageSize	Integer	Minimum instance storage capacity GB
HasStock	Boolean	Whether there is an inventory.
MachineType	String	Machine type
MaxIops	Integer	Maximum IOPS
MaxIoBandWidth	Integer	Maximum bandwidth
ZoneStockInfos	Array of ZoneStockInfo	Inventory information in a region Note: This field may return null, indicating that no valid values can be obtained.
StockCount	Integer	Quantity in stock Note: This field may return null, indicating that no valid values can be obtained.

ModifiableInfo

Details of whether the parameter can be modified

Used by actions: DescribeClusterParams, DescribeClusterPasswordComplexity, DescribeParamTemplateDetail.

Name	Type	Description
------	------	-------------

ModifyParamItem

Information of the modified instance parameter

Used by actions: AddInstances, ModifyInstanceParam, ModifyParamTemplate.

Name	Type	Required	Description
ParamName	String	Yes	Parameter name
CurrentValue	String	Yes	Current parameter value
OldValue	String	No	Old parameter value, which is used only in output parameters. Note: This field may return null, indicating that no valid values can be obtained.

Module

Modules supported by the system

Used by actions: DescribeZones.

Name	Type	Description
IsDisable	String	Whether it is supported. Valid values: <code>yes</code> , <code>no</code> .
ModuleName	String	Module name

NetAddr

Network information

Used by actions: DescribeClusters, DescribeProxies.

Name	Type	Description
Vip	String	Private network IP Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Vport	Integer	Private network port number Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
WanDomain	String	Public network domain name Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
WanPort	Integer	Public network port number

		Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
NetType	String	Network type. Valid values: <code>ro</code> (read-only), <code>rw</code> or <code>ha</code> (read-write) Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
UniqSubnetId	String	Subnet ID Note: This field may return null, indicating that no valid values can be obtained.
UniqVpcId	String	VPC ID Note: This field may return null, indicating that no valid values can be obtained.
Description	String	Description Note: This field may return null, indicating that no valid values can be obtained.
WanIP	String	Public IP Note: This field may return null, indicating that no valid values can be obtained.
WanStatus	String	Public network status Note: This field may return null, indicating that no valid values can be obtained.
InstanceGroupId	String	Instance group ID Note: This field may return null, indicating that no valid values can be obtained.

NewAccount

The newly created x08 account

Used by actions: CreateAccounts.

Name	Type	Required	Description
AccountName	String	Yes	Account name, which can contain 1-16 letters, digits, and underscores. It must begin with a letter and end with a letter or digit.
AccountPassword	String	Yes	Password, which can contain 8-64 characters.
Host	String	Yes	Host
Description	String	No	Description
MaxUserConnections	Integer	No	Maximum number of user connections, which cannot be above 10,240.

ObjectTask

Task information

Used by actions: DescribeClusterDetail, DescribeClusterInstanceGrps, DescribeClusters, DescribeInstances, DescribeProxies.

Name	Type	Required	Description
TaskId	Integer	No	Auto-Incrementing task ID Note: this field may return null, indicating that no valid values can be obtained.
TaskType	String	No	Task type Note: this field may return null, indicating that no valid values can be obtained.
TaskStatus	String	No	Task status Note: this field may return null, indicating that no valid values can be obtained.
ObjectId	String	No	Task ID (cluster ID instance group ID instance ID) Note: this field may return null, indicating that no valid values can be obtained.
ObjectType	String	No	Task type Note: this field may return null, indicating that no valid values can be obtained.

OldAddrInfo

Database address

Used by actions: DescribeClusterInstanceGrps.

Name	Type	Description
Vip	String	IP Note: This field may return null, indicating that no valid values can be obtained.
Vport	Integer	Port Note: This field may return null, indicating that no valid values can be obtained.
ReturnTime	String	Expected valid hours of old IPs Note: This field may return null, indicating that no valid values can be obtained.

Package

Resource pack

Used by actions: DescribeResourcePackageList.

Name	Type	Description
AppId	Integer	AppID Note: This field may return null, indicating that no valid values can be obtained.
PackageId	String	The unique ID of a resource pack Note: This field may return null, indicating that no valid values can be obtained.
PackageName	String	Resource pack name Note: This field may return null, indicating that no valid values can be obtained.
PackageType	String	Resource pack type. Valid values: <code>CCU</code> (compute resource pack), <code>DISK</code> (storage resource pack). Note: This field may return null, indicating that no valid values can be obtained.
PackageRegion	String	Region of the resource pack. Valid values: <code>China</code> (Chinese mainland), <code>overseas</code> (outside Chinese mainland). Note: This field may return null, indicating that no valid values can be obtained.
Status	String	Resource pack status. Valid values: <code>creating</code> , <code>using</code> , <code>expired</code> , <code>normal_finish</code> (used up), <code>apply_refund</code> (requesting a refund), <code>refund</code> (refunded). Note: This field may return null, indicating that no valid values can be obtained.
PackageTotalSpec	Float	Total number of resource packs Note: This field may return null, indicating that no valid values can be obtained.
PackageUsedSpec	Float	Consumed usage of resource packs Note: This field may return null, indicating that no valid values can be obtained.
HasQuota	Boolean	Remaining usage of resource packs Note: This field may return null, indicating that no valid values can be obtained.
BindInstanceInfos	Array of BindInstanceInfo	Information of the instance bound Note: This field may return null, indicating that no valid values can be obtained.
StartTime	String	Validity time: 2022-07-01 00:00:00 Note: This field may return null,

		indicating that no valid values can be obtained.
ExpireTime	String	Validity time: 2022-08-01 00:00:00 Note: This field may return null, indicating that no valid values can be obtained.

PackageDetail

Resource pack details

Used by actions: DescribeResourcePackageDetail.

Name	Type	Description
AppId	Integer	Account ID of <code>AppId</code> Note: This field may return null, indicating that no valid values can be obtained.
PackageId	String	The unique ID of a resource pack Note: This field may return null, indicating that no valid values can be obtained.
InstanceId	String	Instance ID Note: This field may return null, indicating that no valid values can be obtained.
SuccessDeductSpec	Float	The successfully deducted capacity Note: This field may return null, indicating that no valid values can be obtained.
PackageTotalUsedSpec	Float	Used capacity of a resource pack as of now Note: This field may return null, indicating that no valid values can be obtained.
StartTime	String	Deduction start time Note: This field may return null, indicating that no valid values can be obtained.
EndTime	String	Deduction end time Note: This field may return null, indicating that no valid values can be obtained.
ExtendInfo	String	Extended information Note: This field may return null, indicating that no valid values can be obtained.

ParamDetail

Instance parameter details

Used by actions: DescribeParamTemplateDetail.

Name	Type	Description
------	------	-------------

ParamName	String	Parameter name
ParamType	String	Parameter type. Valid values: <code>integer</code> , <code>enum</code> , <code>float</code> , <code>string</code> , <code>func</code> .
SupportFunc	Boolean	Whether <code>func</code> is supported. Valid values: <code>true</code> (supported), <code>false</code> (not supported).
Default	String	Default value
Description	String	Parameter description
CurrentValue	String	Current value of the parameter
NeedReboot	Integer	Whether to restart the database for the modified parameters to take effect. Valid values: <code>0</code> (no), <code>1</code> (yes).
Max	String	Maximum value of the parameter
Min	String	Minimum value of the parameter
EnumValue	Array of String	Enumerated values of the parameter. It is null if the parameter is non-enumerated. Note: This field may return null, indicating that no valid values can be obtained.
IsGlobal	Integer	Valid values: <code>1</code> (global parameter), <code>0</code> (non-global parameter).
MatchType	String	The match type. Valid value: <code>multiVal</code> .
MatchValue	String	Match values, which will be separated by comma when <code>MatchType</code> is <code>multiVal</code> .
IsFunc	Boolean	Whether it is a <code>func</code> type. Valid values: <code>true</code> (yes), <code>false</code> (no). Note: This field may return null, indicating that no valid values can be obtained.
Func	String	Formula content returned when <code>ParamType</code> is <code>func</code> . Note: This field may return null, indicating that no valid values can be obtained.
ModifiableInfo	ModifiableInfo	Whether the parameter can be modified Note: This field may return null, indicating that no valid values can be obtained.

ParamInfo

Parameter information

Used by actions: DescribeClusterParams, DescribeClusterPasswordComplexity.

Name	Type	Description
CurrentValue	String	Current value
Default	String	Default value
EnumValue	Array of String	List of valid values when parameter type is <code>enum</code> , <code>string</code> or <code>bool</code> . Note: This field may return null, indicating that no valid values can be obtained.
Max	String	Maximum value when parameter type is <code>float</code> or <code>integer</code> .
Min	String	Minimum value when parameter type is <code>float</code> or <code>integer</code> .
ParamName	String	Parameter name
NeedReboot	Integer	Whether to restart the instance for the modified parameters to take effect.
ParamType	String	Parameter type: <code>integer</code> , <code>float</code> , <code>string</code> , <code>enum</code> , <code>bool</code> .
MatchType	String	Match type. Regex can be used when parameter type is <code>string</code> . Valid value: <code>multiVal</code> .
MatchValue	String	Match values, which will be separated by semicolon when match type is <code>multiVal</code> .
Description	String	Parameter description
IsGlobal	Integer	Whether it is global parameter Note: This field may return null, indicating that no valid values can be obtained.
ModifiableInfo	ModifiableInfo	Whether the parameter can be modified Note: This field may return null, indicating that no valid values can be obtained.
IsFunc	Boolean	Whether it is a function Note: This field may return null, indicating that no valid values can be obtained.
Func	String	Function Note: This field may return null, indicating that no valid values can be obtained.

ParamItem

Parameter to be modified

Used by actions: CreateClusters, CreateParamTemplate, ModifyClusterParam.

Name	Type	Required	Description
ParamName	String	Yes	Parameter name
CurrentValue	String	Yes	New value
OldValue	String	Yes	Original value

ParamItemDetail

Instance parameter information

Used by actions: DescribeInstanceParams.

Name	Type	Description
CurrentValue	String	Current value
Default	String	Default value
EnumValue	Array of String	Enumerated values of the parameter It is null if the parameter is non-enumerated.
IsGlobal	Integer	Valid values: <code>1</code> (global parameter), <code>0</code> (non-global parameter).
Max	String	Maximum value
Min	String	Minimum value
NeedReboot	Integer	Whether to restart the database for the modified parameters to take effect. Valid values: <code>0</code> (no), <code>1</code> (yes)
ParamName	String	Parameter name
ParamType	String	Parameter type. Valid values: <code>integer</code> , <code>enum</code> , <code>float</code> , <code>string</code> , <code>func</code> .
Description	String	Parameter description
IsFunc	Boolean	Whether <code>ParamType</code> is a <code>func</code> Note: This field may return null, indicating

		that no valid values can be obtained.
Func	String	Parameter configuration formula Note: This field may return null, indicating that no valid values can be obtained.

ParamTemplateListInfo

Parameter template information

Used by actions: DescribeParamTemplates.

Name	Type	Description
Id	Integer	Parameter template ID
TemplateName	String	Parameter template name
TemplateDescription	String	Parameter template description
EngineVersion	String	Engine version
DbMode	String	Database Type. Valid values: <code>NORMAL</code> , <code>SERVERLESS</code> .
ParamInfoSet	Array of TemplateParamInfo	Parameter template details Note: This field may return null, indicating that no valid values can be obtained.

PolicyRule

Security group rule

Used by actions: DescribeDBSecurityGroups, DescribeProjectSecurityGroups.

Name	Type	Description
Action	String	Policy, which can be <code>ACCEPT</code> or <code>DROP</code>
CidrIp	String	Source IP or source IP range, such as 192.168.0.0/16
PortRange	String	Port
IpProtocol	String	Network protocol, such as UDP and TCP
ServiceModule	String	Protocol port ID or protocol port group ID.

AddressModule	String	IP address ID or IP address group ID.
Id	String	id
Desc	String	Description

ProxyConnectionPoolInfo

Connection pool information for the database proxy

Used by actions: DescribeProxies.

Name	Type	Required	Description
ConnectionPoolTimeOut	Integer	Yes	Connection persistence timeout in seconds Note: This field may return null, indicating that no valid values can be obtained.
OpenConnectionPool	String	No	Whether the connection pool is enabled Note: This field may return null, indicating that no valid values can be obtained.
ConnectionPoolType	String	No	Connection pool type. Valid value: <code>SessionConnectionPool</code> (session-level). Note: This field may return null, indicating that no valid values can be obtained.

ProxyGroup

Proxy group

Used by actions: DescribeProxies.

Name	Type	Description
ProxyGroupId	String	Database proxy group ID
ProxyNodeCount	Integer	Number of nodes in the proxy group
Status	String	Database proxy group status
Region	String	Region
Zone	String	AZ

CurrentProxyVersion	String	Current proxy version
ClusterId	String	Cluster ID Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
AppId	Integer	User <code>AppId</code> Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
OpenRw	String	Enabling read/write separation for database proxy Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.

ProxyGroupInfo

Database proxy group details

Used by actions: DescribeProxies.

Name	Type	Description
ProxyGroup	ProxyGroup	Database proxy group Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
ProxyGroupRwInfo	ProxyGroupRwInfo	Read/write separation information of the database proxy u200dgroup Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
ProxyNodes	Array of ProxyNodeInfo	Node information of the u200ddatabase proxy Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
ConnectionPool	ProxyConnectionPoolInfo	Connection pool information for the database proxy Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
NetAddrInfos	Array of NetAddr	Network information for database proxy Note: u200dThis field may returnu200d·nullu200d·, indicating that no valid values can be obtained.
Tasks	Array of ObjectTask	Task set of the database proxy Note: u200dThis field may returnu200d·nullu200d·,

indicating that no valid values can be obtained.

ProxyGroupRwInfo

Read/write separation information of the database proxy u200dgroup

Used by actions: DescribeProxies.

Name	Type	Required	Description
ConsistencyType	String	No	Consistency type. Valid values: <code>eventual</code> (eventual consistency), <code>session</code> (session consistency), <code>global</code> (global consistency).
ConsistencyTimeOut	Integer	No	Consistency timeout period
WeightMode	String	No	Weight mode. Valid values: <code>system</code> (auto-assigned), <code>custom</code> .
FailOver	String	No	Whether to enable failover
AutoAddRo	String	No	Whether to automatically add read-only instance. Valid value: <code>yes</code> , <code>no</code> .
InstanceWeights	Array of ProxyInstanceWeight	No	Instance weight array
OpenRw	String	No	Whether to enable read-write node. Valid values: <code>yes</code> , <code>no</code> . Note: u200dThis field may returnu200dnullu200d-, indicating that no valid values can be obtained.
RwType	String	No	Read/write attribute. Valid values: <code>READWRITE</code> , <code>READONLY</code> .
TransSplit	Boolean	No	Transaction split
AccessMode	String	No	Connection mode. Valid values: <code>balance</code> , <code>nearby</code> .

ProxyInstanceWeight

Weight ratio between read-write instances and read-only instances

Used by actions: CreateProxyEndPoint, DescribeProxies, ModifyProxyRwSplit.

Name	Type	Required	Description
InstanceId	String	Yes	InstanID
Weight	Integer	Yes	Instance weight

ProxyNodeInfo

Node in the database proxy group

Used by actions: DescribeProxies, DescribeProxyNodes.

Name	Type	Description
ProxyNodeId	String	Database proxy node ID
ProxyNodeConnections	Integer	Current node connections, which is not returned by the <code>DescribeProxyNodes</code> API.
Cpu	Integer	CPU of the database proxy node
Mem	Integer	Memory of the database proxy node
Status	String	Status of the database proxy node
ProxyGroupId	String	Database proxy group ID
ClusterId	String	Cluster ID
AppId	Integer	User AppID
Region	String	Region
Zone	String	AZ

ProxySpec

Database proxy specifications

Used by actions: DescribeProxySpecs.

--	--	--

Name	Type	Description
Cpu	Integer	Number of database proxy CPU cores
Mem	Integer	Database proxy memory

ProxyZone

Number of proxy nodes and their AZs

Used by actions: CreateProxy, UpgradeProxy.

Name	Type	Required	Description
ProxyNodeZone	String	No	AZ of the proxy node
ProxyNodeCount	Integer	No	The number of proxy nodes

QueryFilter

Query filter

Used by actions: DescribeClusters, DescribeInstances, DescribeProxyNodes.

Name	Type	Required	Description
Names	Array of String	Yes	Search field. Valid values: "Instanceld", "ProjectId", "InstanceName", "Vip"
Values	Array of String	Yes	Search string
ExactMatch	Boolean	No	Whether to use exact match
Name	String	No	Search field
Operator	String	No	Operator

QueryParamFilter

Filters for query

Used by actions: DescribeProxies.

Name	Type	Required	Description
Names	Array of String	Yes	Search field. Valid values: "InstanceId", "ProjectId", "InstanceName", "Vip"
Values	Array of String	Yes	Search string
ExactMatch	Boolean	No	Whether to use exact match

ResourcePackage

Information of a resource pack

Used by actions: DescribeClusterDetail, DescribeClusters, DescribeInstances.

Name	Type	Required	Description
Packageld	String	No	The unique ID of a resource pack Note: This field may return null, indicating that no valid values can be obtained.
PackageType	String	No	Resource pack type. Valid values: <code>CCU</code> (compute resource pack), <code>DISK</code> (storage resource pack). Note: This field may return null, indicating that no valid values can be obtained.

RollbackTimeRange

Rollback time range

Used by actions: DescribeRollbackTimeRange.

Name	Type	Description
TimeRangeStart	String	Start time
TimeRangeEnd	String	End time

RuleFilters

Filter of the audit rule

Used by actions: CreateAuditRuleTemplate, DescribeAuditRuleTemplates, DescribeAuditRuleWithInstanceIds, ModifyAuditRuleTemplates, ModifyAuditService, OpenAuditService.

Name	Type	Required	Description
Type	String	Yes	Filter parameter name of the audit rule. Valid values: <code>host</code> (client IP), <code>user</code> (database account), <code>dbName</code> (database name), <code>sqlType</code> (SQL type), <code>sql</code> (SQL statement).
Compare	String	Yes	Filter match type of the audit rule. Valid values: <code>INC</code> (including), <code>EXC</code> (excluding), <code>EQS</code> (equal to), <code>NEQ</code> (not equal to).
Value	Array of String	Yes	Filter match value of the audit rule

SalePackageSpec

Resource pack details

Used by actions: DescribeResourcePackageSaleSpec.

Name	Type	Description
PackageRegion	String	Region of the resource pack Note: This field may return null, indicating that no valid values can be obtained.
PackageType	String	Resource pack type. Valid values: <code>CCU</code> (compute resource pack), <code>DISK</code> (storage resource pack). Note: This field may return null, indicating that no valid values can be obtained.
PackageVersion	String	Resource pack edition. Valid values: <code>base</code> (basic edition), <code>common</code> (general edition), <code>enterprise</code> (enterprise edition). Note: This field may return null, indicating that no valid values can be obtained.
MinPackageSpec	Float	Minimum number of resources for the current edition of the resource pack. Unit of the compute resources: pcs. Unit of the storage resources: GB. Note: This field may return null, indicating that no valid values can be obtained.
MaxPackageSpec	Float	Maximum number of resources for the current edition of the resource pack. Unit of the compute resources: pcs. Unit of the storage resources: GB. Note: This field may return null, indicating that no valid values can be obtained.

ExpireDay	Integer	Validity period of a resource pack in days Note: This field may return null, indicating that no valid values can be obtained.
-----------	---------	---

SaleRegion

Information of a purchasable region

Used by actions: DescribeZones.

Name	Type	Description
Region	String	Region name
RegionId	Integer	Numeric ID of a region
RegionZh	String	Region name
ZoneSet	Array of SaleZone	List of purchasable AZs
DbType	String	Engine type
Modules	Array of Module	Supported modules in a region

SaleZone

Information of a purchasable AZ

Used by actions: DescribeZones.

Name	Type	Description
Zone	String	AZ name
ZoneId	Integer	Numeric ID of an AZ
ZoneZh	String	AZ name
IsSupportServerless	Integer	Whether serverless cluster is supported. Valid values: 0 : No 1 : Yes
IsSupportNormal	Integer	Whether standard cluster is supported. Valid values:

		0 : No 1 : Yes
PhysicalZone	String	Physical zone
HasPermission	Boolean	Whether the user has AZ permission Note: This field may return null, indicating that no valid values can be obtained.
IsWholeRdmaZone	String	Whether it is a full-linkage RDMA AZ.

SecurityGroup

Security group details

Used by actions: DescribeDBSecurityGroups, DescribeProjectSecurityGroups.

Name	Type	Description
ProjectId	Integer	Project ID
CreateTime	String	Creation time in the format of yyyy-mm-dd hh:mm:ss
Inbound	Array of PolicyRule	Inbound rule
Outbound	Array of PolicyRule	Outbound rule
SecurityGroupId	String	Security group ID
SecurityGroupName	String	Security group name
SecurityGroupRemark	String	Security group remarks

SlowQueriesItem

Slow query information of the instance

Used by actions: DescribeInstanceSlowQueries.

Name	Type	Description
Timestamp	Integer	Execution timestamp

QueryTime	Float	Execution duration in seconds
SqlText	String	SQL statement
UserHost	String	Client host
UserName	String	Username
Database	String	Database name
LockTime	Float	Lock duration in seconds
RowsExamined	Integer	Number of scanned rows
RowsSent	Integer	Number of returned rows
SqlTemplate	String	SQL template
SqlMd5	String	MD5 value of the SQL statement

TablePrivileges

MySQL table permission

Used by actions: ModifyAccountPrivileges.

Name	Type	Required	Description
Db	String	Yes	Database name
TableName	String	Yes	Table name
Privileges	Array of String	Yes	Permission list

Tag

Information of tags associated with cluster, including `TagKey` and `TagValue`

Used by actions: CreateClusters, DescribeClusterDetail, DescribeClusters, DescribeInstances.

Name	Type	Required	Description
TagKey	String	Yes	Tag key

TagValue	String	Yes	Tag value
----------	--------	-----	-----------

TemplateParamInfo

Parameter template details

Used by actions: DescribeParamTemplates.

Name	Type	Description
CurrentValue	String	Current value
Default	String	Default value
EnumValue	Array of String	The collection of valid value types when parameter type is <code>enum</code> . Note: This field may return null, indicating that no valid values can be obtained.
Max	String	Maximum value when parameter type is <code>float</code> or <code>integer</code> . Note: This field may return null, indicating that no valid values can be obtained.
Min	String	Minimum value when parameter type is <code>float</code> or <code>integer</code> . Note: This field may return null, indicating that no valid values can be obtained.
ParamName	String	Parameter name
NeedReboot	Integer	Whether to restart the instance for the parameter to take effect
Description	String	Parameter description
ParamType	String	Parameter type. Valid value: <code>integer</code> , <code>float</code> , <code>string</code> , <code>enum</code> .

TradePrice

Billing details

Used by actions: InquirePriceCreate, InquirePriceRenew.

Name	Type	Description
TotalPrice	Integer	The non-discounted total price of monthly subscribed resources (unit: US cent)

		Note: This field may return null, indicating that no valid values can be obtained.
Discount	Float	Total discount. 100 means no discount.
TotalPriceDiscount	Integer	The discounted total price of monthly subscribed resources (unit: US cent). If a discount is applied, <code>TotalPriceDiscount</code> will be the product of <code>TotalPrice</code> and <code>Discount</code> . Note: This field may return null, indicating that no valid values can be obtained.
UnitPrice	Integer	The non-discounted unit price of pay-as-you-go resources (unit: US cent) Note: This field may return null, indicating that no valid values can be obtained.
UnitPriceDiscount	Integer	The discounted unit price of pay-as-you-go resources (unit: US cent). If a discount is applied, <code>UnitPriceDiscount</code> will be the product of <code>UnitPrice</code> and <code>Discount</code> . Note: This field may return null, indicating that no valid values can be obtained.
ChargeUnit	String	Price unit

UserHostPrivilege

User host permissions

Used by actions: CreateClusterDatabase, DescribeClusterDetailDatabases, ModifyClusterDatabase.

Name	Type	Required	Description
DbUserName	String	Yes	Authorized user
DbHost	String	Yes	Client IP Note: This field may return null, indicating that no valid values can be obtained.
DbPrivilege	String	Yes	User permissions Note: This field may return null, indicating that no valid values can be obtained.

ZoneStockInfo

Inventory information in an AZ

Used by actions: DescribeInstanceSpecs.

Name	Type	Description
Zone	String	AZ
HasStock	Boolean	Whether there is an inventory.
StockCount	Integer	Quantity in stock

Error Codes

Last updated : 2024-07-17 17:23:28

Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	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

	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
FailedOperation.BatchGetInstanceError	Batch query failed
FailedOperation.BindSourcePackageError	Failed to bind a resource pack
FailedOperation.CamCheckResourceError	Failed to get permissions. Please try again later. If the problem persists, please contact customer service.
FailedOperation.CamSigAndAuthError	Authentication failed. Please try again later. If the problem persists, please contact customer service.
FailedOperation.CreateOrder	Failed to create the order and make a payment.
FailedOperation.CreateSourcePackageError	Failed to create a resource pack
FailedOperation.DatabaseAccessError	Failed to access the database. Please try again later. If the problem persists, please contact customer service.
FailedOperation.FlowCreateError	Failed to create a task. Try again later. If the problem

	persists, contact customer service.
FailedOperation.FlowNotFoundError	The task flow does not exist.
FailedOperation.GetBackupStrategyError	Failed to query the backup policy. Please try again later. If the problem persists, please contact customer service.
FailedOperation.GetNetServiceInfoError	Failed to query the network information of the access group
FailedOperation.GetOssInfoError	Failed to query the details of a read-write instance
FailedOperation.InsufficientBalance	Insufficient account balance
FailedOperation.OperationFailedError	Operation failed. Try again later. If the problem persists, contact customer service.
FailedOperation.QuerySourcePackageDetailError	Failed to query the consumption details of a resource pack
FailedOperation.QuerySourcePackageError	Failed to query the resource pack
FailedOperation.QuerySpecBySpecCodeError	Failed to query specifications.
FailedOperation.RefundSourcePackageError	Failed to refund the resource pack
FailedOperation.TradeCreateOrderError	Failed to create the order and make a payment. Please try again later. If the problem persists, please contact customer service.
FailedOperation.UnBindSourcePackageError	Failed to unbind the resource pack
InternalError.DbOperationFailed	Failed to query the database.
InternalError.GetSecurityGroupDetailFailed	Failed to get the security group information.
InternalError.GetSubnetFailed	Failed to get the subnet.
InternalError.GetVpcFailed	Failed to get the VPC.
InternalError.HttpError	Network error
InternalError.InternalHttpServerError	An exception occurred while executing the HTTP request.
InternalError.ListInstanceFailed	Failed to query instances by security group.
InternalError.OperateWanFail	Public network operation failed.

InternalError.OperationNotSupport	Unsupported operation.
InternalError.QueryDatabaseFailed	Failed to query the database.
InternalError.ServiceError	Internal service error
InternalError.SystemError	Internal system error.
InternalError.UnknownError	Unknown internal error.
InvalidParameter.ControllerNotFoundError	This API was not found.
InvalidParameter.ExceptionParam	Parameter passing error.
InvalidParameter.InvalidParameterError	Unknown parameter. Please check whether the parameter is valid.
InvalidParameter.IsolateNotAllowed	The current instance cannot be isolated.
InvalidParameterValue.AccountAlreadyExistError	The account already exists.
InvalidParameterValue.AccountExist	The account already exists.
InvalidParameterValue.AccountNotExistError	The instance doesn't have an account.
InvalidParameterValue.ClusterNotFound	No cluster found.
InvalidParameterValue.DBTypeNotFound	Unsupported instance type.
InvalidParameterValue.DbModeNotServerlessError	The cluster type must be serverless.
InvalidParameterValue.DealNameNotFound	No order ID found.
InvalidParameterValue.FlowNotFound	Taskflow ID doesn't exist.
InvalidParameterValue.IllegalInstanceName	The instance name contains invalid characters.
InvalidParameterValue.IllegalOrderBy	Invalid sort by field.
InvalidParameterValue.IllegalPassword	The password does not meet the requirement.
InvalidParameterValue.InstanceNotFound	The instance does not exist.
InvalidParameterValue.InternalAccount	The operation is not allowed for system account.
InvalidParameterValue.InvalidDBVersion	Invalid instance version.
InvalidParameterValue.InvalidParameterValueError	Invalid parameter value.
InvalidParameterValue.InvalidPasswordValueError	The password is invalid.

InvalidParameterValue.InvalidRegionIdError	The region is invalid.
InvalidParameterValue.InvalidSpec	Invalid instance specification.
InvalidParameterValue.InvalidZoneIdError	Invalid AZ
InvalidParameterValue.ParamBothSetError	These two parameters cannot be set at the same time.
InvalidParameterValue.ParamError	Incorrect parameter.
InvalidParameterValue.ParameterOutOfRangeError	Invalid parameter value
InvalidParameterValue.PrePayPayModeError	This operation is not allowed for monthly-subscribed instances.
InvalidParameterValue.ProjectIdNotFound	The <code>ProjectId</code> was not found.
InvalidParameterValue.RegionZoneUnavailable	The selected region and AZ are unavailable.
InvalidParameterValue.StoragePoolNotFound	No related storage pool found.
InvalidParameterValue.SubnetNotFound	The selected subnet could not be found.
InvalidParameterValue.ValueNotFound	No data found
InvalidParameterValue.VpcNotFound	The selected VPC could not be found.
LimitExceeded.ClusterInstanceLimit	The node count in the cluster exceeds the maximum limit.
LimitExceeded.UserInstanceLimit	The number of instances exceeds the limit.
OperationDenied.CamDeniedError	Failed to verify permissions
OperationDenied.ClusterOpNotAllowedError	The current cluster does not allow the operation.
OperationDenied.ClusterStatusDeniedError	For the cluster in this status, the operation is not allowed.
OperationDenied.InstanceAccessDeniedError	You do not have the permission to operate this resource.
OperationDenied.InstanceStatusDeniedError	For the instance in this status, the operation is not allowed.
OperationDenied.InstanceStatusLimitError	The instance is not running.
OperationDenied.InsufficientBalanceError	Insufficient account balance.
OperationDenied.ServerlessClusterStatusDenied	For the serverless cluster in this status, the operation is not allowed.

OperationDenied.ServerlessInstanceStatusDenied	For the serverless instance in this status, the operation is not allowed.
OperationDenied.TaskConflictError	The task conflict check failed.
OperationDenied.UnSupportSaleSpecError	This type of specification is unavailable.
OperationDenied.UserNotAuthenticatedError	You need to verify your identity to make a purchase.
OperationDenied.VersionNotSupportError	Serverless is not supported on this version.
ResourceNotFound.ClusterNotFoundError	The cluster does not exist.
ResourceNotFound.InstanceNotFoundError	The instance does not exist.
ResourceNotFound.ResourceError	The resource corresponding to the parameter does not exist.
ResourceUnavailable.InstanceLockFail	Failed to lock the instance, so the operation cannot be performed temporarily.
ResourceUnavailable.InstanceStatusAbnormal	The instance is exceptional, so the operation cannot be performed temporarily.
UnauthorizedOperation.NotRealNameAccount	Users who haven't completed identity verification can't make purchases.
UnauthorizedOperation.PermissionDenied	CAM authentication failed.