Cloud Virtual Machine

API Documentation

Product Documentation

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API Documentation History

Last updated：2024-01-04 16:10:57

Release 22

Release time: 2023-04-13 14:41:43

Release updates:

Improvement to existing documentation.

Modified data structures:

- LaunchTemplateVersionData
  - New members:DisableApiTermination

Release 21

Release time: 2023-03-27 16:16:41

Release updates:

Improvement to existing documentation.

Modified APIs:

- ImportImage
  - New input parameters:BootMode
- TerminateInstances
  - New input parameters:ReleasePrepaidDataDisks

Modified data structures:

- ActionTimer
  - **Modified members:** Externals

Release 20

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Release time: 2023-03-07 10:53:46

Release updates:

Improvement to existing documentation.

Modified APIs:

- ExportImages
  - New output parameters:CosPaths
- SyncImages
  - New input parameters:ImageSetRequired

Modified data structures:

- Instance
  - New members:DefaultLoginUser, DefaultLoginPort, LatestOperationErrorMsg
- InstanceTypeQuotaItem
  - New members:GpuCount, Frequency

Release 19

Release time: 2022-12-02 14:58:49

Release updates:

Improvement to existing documentation.

Modified APIs:

- ResetInstance
  - New input parameters:UserData
- SyncImages
  - New output parameters:ImageSet

New data structures:

- SyncImage

Release 18

Release time: 2022-10-28 11:19:40

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Release updates:

Improvement to existing documentation.

Modified APIs:

- ModifyInstancesAttribute
  - New input parameters:HostName

Modified data structures:

- Instance
  - New members:DisableApiTermination

Release 17

Release time: 2022-09-19 10:25:39

Release updates:

Improvement to existing documentation.

New APIs:

- InquiryPriceRunInstances

Modified APIs:

- SyncImages
  - New input parameters:ImageName

Release 16

Release time: 2022-08-26 10:48:03

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeChcDeniedActions

New data structures:

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- ChcHostDeniedActions

Release 15

Release time: 2022-08-11 10:30:39

Release updates:

Improvement to existing documentation.

Modified APIs:

- ImportImage
  - New input parameters:LicenseType

Release 14

Release time: 2022-08-01 15:31:19

Release updates:

Improvement to existing documentation.

New APIs:

- ConfigureChcAssistVpc
- ConfigureChcDeployVpc
- DescribeChcHosts
- ModifyChcAttribute
- RemoveChcAssistVpc
- RemoveChcDeployVpc

Modified APIs:

- CreateKeyPair
  - New input parameters:TagSpecification
- ImportKeyPair
  - New input parameters:TagSpecification

New data structures:

- ChcDeployExtraConfig

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- ChcHost

Release 13

Release time: 2022-06-20 16:34:34

Release updates:

Improvement to existing documentation.

Modified data structures:

- KeyPair
  - New members:Tags

Release 12

Release time: 2022-06-20 15:49:34

Release updates:

Improvement to existing documentation.

New APIs:

- ExportImages

Modified APIs:

- CreateLaunchTemplateVersion
  - New input parameters:DisableApiTermination
- ModifyInstancesAttribute
  - New input parameters:CamRoleName, CamRoleType
- RunInstances
  - New input parameters:DedicatedClusterId

Modified data structures:

- HostResource
  - New members:GpuTotal, GpuAvailable
- Image
  - New members:LicenseType

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- Instance
  - New members:LicenseType

Release 11

Release time: 2022-06-06 16:42:38

Release updates:

Improvement to existing documentation.

New APIs:

- RunInstances

New data structures:

- LaunchTemplate

Release 10

Release time: 2022-04-27 11:19:58

Release updates:

Improvement to existing documentation.

Modified APIs:

- DeleteImages
  - New input parameters:DeleteBindedSnap, DryRun
- SyncImages
  - New input parameters:DryRun

Modified data structures:

- Image
  - New members:Tags

Release 9

Release time: 2022-04-25 09:55:58

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Release updates:

Improvement to existing documentation.

Deleted APIs:

- CreateLaunchTemplate
- DescribeInstanceTypeConfigs
- DescribeInstanceVncUrl
- DescribeReservedInstances
- InquiryPriceRunInstances
- RunInstances

Deleted data structures:

- InstanceTypeConfig
- LaunchTemplate
- ReservedInstances

Release 8

Release time: 2022-02-23 10:25:54

Release updates:

Improvement to existing documentation.

New APIs:

- CreateLaunchTemplate
- CreateLaunchTemplateVersion
- DeleteLaunchTemplate
- DeleteLaunchTemplateVersions
- DescribeLaunchTemplateVersions
- DescribeLaunchTemplates
- ModifyLaunchTemplateDefaultVersion

Modified APIs:

- CreateImage
  - New input parameters:TagSpecification
- ImportImage

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- New input parameters:TagSpecification
- ModifyInstancesAttribute
  - New input parameters:DisableApiTermination
- ResizeInstanceDisks
  - New input parameters:SystemDisk, ResizeOnline
- RunInstances
  - New input parameters:LaunchTemplate, ChcIds

New data structures:

- GPUInfo
- LaunchTemplate
- LaunchTemplateInfo
- LaunchTemplateVersionData
- LaunchTemplateVersionInfo

Modified data structures:

- Instance
  - New members:GPUInfo

Release 7

Release time: 2021-09-02 10:17:55

Release updates:

Improvement to existing documentation.

New data structures:

- RunAutomationServiceEnabled

Modified data structures:

- EnhancedService
  - New members:AutomationService
- Instance
  - New members:IsolatedSource

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Release 6

Release time: 2021-03-19 16:31:30

Release updates:

Improvement to existing documentation.

Modified data structures:

- DataDisk
  - New members:CdcId
- SystemDisk
  - New members:CdcId

Release 5

Release time: 2021-01-18 11:56:21

Release updates:

Improvement to existing documentation.

Deleted APIs:

- DescribeSpotTypeConfig

Modified APIs:

- RunInstances
  - **Modified input parameters:** Placement, ImageId

Modified data structures:

- DataDisk
  - New members:ThroughputPerformance
- ItemPrice
  - New members:OriginalPriceThreeYear, DiscountPriceThreeYear, DiscountThreeYear, OriginalPriceFiveYear, DiscountPriceFiveYear, DiscountFiveYear, OriginalPriceOneYear, DiscountPriceOneYear, DiscountOneYear

Release 4

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Release time: 2020-10-16 18:37:39

Release updates:

Improvement to existing documentation.

Modified APIs:

- RunInstances
  - New input parameters:CamRoleName

Release 3

Release time: 2020-09-17 17:18:14

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeReservedInstancesConfigInfos
- DescribeSpotTypeConfig
- InquirePricePurchaseReservedInstancesOffering

Modified APIs:

- PurchaseReservedInstancesOffering
  - New input parameters:ReservedInstanceName

New data structures:

- ReservedInstanceConfigInfoItem
- ReservedInstanceFamilyItem
- ReservedInstancePrice
- ReservedInstancePriceItem
- ReservedInstanceTypeItem

Modified data structures:

- ReservedInstances
  - New members:InstanceFamily

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Release 2

Release time: 2020-08-13 23:15:35

Release updates:

Improvement to existing documentation.

Modified APIs:

- InquiryPriceRunInstances
  - New input parameters:HpcClusterId
- RunInstances
  - New input parameters:HpcClusterId

Modified data structures:

- Instance
  - New members:HpcClusterId, RdmaIpAddresses

Existing Release

Release time: 2020-07-24 14:16:18

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- AllocateHosts
- AssociateInstancesKeyPairs
- AssociateSecurityGroups
- CreateDisasterRecoverGroup
- CreateImage
- CreateKeyPair
- DeleteDisasterRecoverGroups
- DeleteImages
- DeleteKeyPairs
- DescribeDisasterRecoverGroupQuota
- DescribeDisasterRecoverGroups
- DescribeHosts

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- DescribeImageQuota
- DescribeImageSharePermission
- DescribeImages
- DescribeImportImageOs
- DescribeInstanceFamilyConfigs
- DescribeInstanceTypeConfigs
- DescribeInstanceVncUrl
- DescribeInstances
- DescribeInstancesOperationLimit
- DescribeInstancesStatus
- DescribeInternetChargeTypeConfigs
- DescribeKeyPairs
- DescribeRegions
- DescribeZoneInstanceConfigInfos
- DescribeZones
- DisassociateInstancesKeyPairs
- DisassociateSecurityGroups
- ImportImage
- ImportKeyPair
- InquiryPriceResetInstance
- InquiryPriceResetInstancesInternetMaxBandwidth
- InquiryPriceResetInstancesType
- InquiryPriceResizeInstanceDisks
- InquiryPriceRunInstances
- ModifyDisasterRecoverGroupAttribute
- ModifyHostsAttribute
- ModifyImageAttribute
- ModifyImageSharePermission
- ModifyInstancesAttribute
- ModifyInstancesProject
- ModifyInstancesVpcAttribute
- ModifyKeyPairAttribute
- RebootInstances
- ResetInstance
- ResetInstancesInternetMaxBandwidth
- ResetInstancesPassword
- ResetInstancesType
- ResizeInstanceDisks

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- RunInstances
- StartInstances
- StopInstances
- SyncImages
- TerminateInstances

Existing data structures:

- ActionTimer
- ChargePrepaid
- DataDisk
- DisasterRecoverGroup
- EnhancedService
- Externals
- Filter
- HostItem
- HostResource
- Image
- ImageOsList
- Instance
- InstanceChargePrepaid
- InstanceFamilyConfig
- InstanceMarketOptionsRequest
- InstanceStatus
- InstanceTypeConfig
- InstanceTypeQuotaItem
- InternetAccessible
- InternetChargeTypeConfig
- ItemPrice
- KeyPair
- LocalDiskType
- LoginSettings
- OperationCountLimit
- OsVersion
- Placement
- Price
- RegionInfo
- RunMonitorServiceEnabled

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- RunSecurityServiceEnabled
- SharePermission
- Snapshot
- SpotMarketOptions
- StorageBlock
- SystemDisk
- Tag
- TagSpecification
- VirtualPrivateCloud
- ZoneInfo

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Introduction

Last updated：2022-10-10 16:48:24

Welcome to Cloud Virtual Machine (CVM).

Tencent Cloud CVM runs in Tencent IDC and provides scalable computing service. You can build and host software systems based on your business requirements.

CVM provides you with elastic computing, storage, and network resources. This document describes APIs for CVMs, and provides samples to create, terminate, and restart CVM instances and adjust bandwidth for them. For a full list of supported operations, see API Overview.

Please read CVM Overview before using these APIs.

Notes:

- All CVM APIs described here have been upgraded to API 3.0. All new CVM-related features will be added to these APIs.

Glossary

Below is the list of common terms used in this document:

Term	Description
Instance	A cloud virtual machine, see Instance
Region	A region where resources reside. Each region contains one or more availability zones. See Region
Zone	Tencent Cloud physical IDCs in the same region with independent power and network resources. They are designed to ensure that the failures within an availability zone can be isolated without spreading to and affecting other zones, so as to ensure your business stability. See Availability Zone
Image	A copy of the software environment on a CVM instance, generally including operating systems and installed software. It is used to create an instance. See Image
Security Group	A type of virtual firewall with a state-based packet filtering feature. It is an important network security isolation method to control the network access of CVM instances. See Security Group

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Term	Description
EIP	A type of public IP. Unlike an ordinary public IP, an elastic IP belongs to a user account rather than an instance. The mapping relationship between an instance and a public IP address can be changed at any time. See EIP
Monthly subscription	A billing method. For more information, see Billing Methods.
Pay as you go	A billing method. For more information, see Billing Methods.

Request and response parameters

- `Limit` and `Offset`

  These parameters are used for paging control. `Limit` indicates the maximum number of entries returned at a time, and `Offset` is the offset value. If the number of results exceeds the `Limit`, the number of returned results equals to the value of `Limit`.

  For example, if Offset=0&Limit=20, the 0th to 19th entries are returned; if Offset=20&Limit=20, the 20th to 39th entries are returned; if Offset=40&Limit=20, the 40th to 59th entries are returned, and so on.

- Ids.N

  Format for entering multiple parameters at a time. Multiple parameters can be passed in at the same time in this form. For example:

  GET request or POST x-www-form-urlencoded request: Ids.0=ins-r8hr2upy&Ids.1=ins-5d8a23rs&Ids.2=ins--dcs9x3gz

  The others can be done in the same manner (starting with `0`).

  POST json request: {"Ids": ["ins-r8hr2upy", "ins-5d8a23rs", "ins-dcs9x3gz"]}

Getting Started with APIs

The following describes some typical use cases for CVM APIs:

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1. Create a pay-as-you-go instance by using the RunInstances API and providing information like availability zone ID, image ID, model and other parameters.

2. Upgrade the configuration of an instance using the ResetInstancesType API. You can change CPU and memory by adjusting instance models.

3. Shut down an instance using the StopInstances API.

4. If you do not want to use an instance anymore, you can terminate it using the TerminateInstances API. No more fees will be incurred once the instance is terminated.

Limits

- The CVM instances created via the API are subject to the number limit described in the Restrictions on CVM Instance Purchase, and share the quota with those created in the console.

- For information on specific limits, see documents for corresponding APIs or products.

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API Category

Last updated：2024-01-04 16:10:56

Region APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeRegions	Queries the list of regions	20
DescribeZones	Queries a list of availability zones	20

Instance APIs

API Name	Feature	Frequency Limit (maximum requests per second)
RunInstances	Creates instances	10
DescribeInstances	Views the list of instances	40
DescribeInstanceFamilyConfigs	Queries supported instance model families	10
DescribeInstancesOperationLimit	Queries limitations on operations on an instance	10
InquiryPriceRunInstances	Queries the price of creating instances	10
InquiryPriceResetInstance	Queries the price of instance reinstallation	10
InquiryPriceResetInstancesType	Queries the price of an instance with a new configuration	10
StartInstances	Starts instances	10
RebootInstances	Restarts instances	10
StopInstances	Shuts down instances	10

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ResizeInstanceDisks	Expands the disk capacity of an instance	10
ResetInstancesPassword	Resets instance passwords	10
ModifyInstancesAttribute	Modifies instance attributes	10
InquirePricePurchaseReservedInstancesOffering	Queries the price of reserved instance offerings	20
InquiryPriceResizeInstanceDisks	Queries the capacity price of an instance after disk expansion	10
TerminateInstances	Returns instances	10
ModifyInstancesProject	Modifies the project of an instance	10
ResetInstancesType	Changes the model of an instance	10
DescribeInstancesStatus	Views the list of instance status	40
DescribeReservedInstancesConfigInfos	Queries reserved instance configurations	20
DescribeReservedInstancesOfferings	Describes Reserved Instance offerings	10
DescribeZoneInstanceConfigInfos	Queries the configurations of models in an availability zone	40
PurchaseReservedInstancesOffering	Purchases Reserved Instances	10
ResetInstance	Reinstalls the OS of an instance	10

CDH APIs

API Name	Feature	Frequency Limit (maximum requests per second)

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AllocateHosts	Creates CDH instances	10
ModifyHostsAttribute	Modifies the attributes of a CDH instance	10
DescribeHosts	Views the list of CDH instances	10

Cloud Hosting Cluster APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ConfigureChcAssistVpc	Configures the out-of-band network and deployment network of a CHC	20
ConfigureChcDeployVpc	Configures the deployment network of a CHC host	20
DescribeChcDeniedActions	Queries the actions not allowed for the specified CHC instances	20
ModifyChcAttribute	Modifies the CHC host attributes	20
RemoveChcAssistVpc	Removes the out-of-band network and deployment network of a CHC host	20
RemoveChcDeployVpc	Removes the deployment network of a CHC	20
DescribeChcHosts	Queries the details of CHC hosts	20

Placement Group APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeDisasterRecoverGroups	Queries information on spread placement groups	10
DescribeDisasterRecoverGroupQuota	Queries the quota of placement groups	20
CreateDisasterRecoverGroup	Creates a spread placement group	10

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ModifyDisasterRecoverGroupAttribute	Modifies spread placement group attributes	10
DeleteDisasterRecoverGroups	Deletes a spread placement group	10

Image APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeImages	Views the list of images	40
DescribeImageSharePermission	Views image sharing information	10
DescribeImportImageOs	Queries the list of supported operating systems of imported images	288
DescribeImageQuota	Queries image quota	10
ModifyImageSharePermission	Modifies image sharing information	10
SyncImages	Syncs an image	10
ModifyImageAttribute	Modifies image attributes	10
DeleteImages	Deletes images	10
ImportImage	Imports images	10
ExportImages	Exports custom images	20
CreateImage	Creates an image	10

Key APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeKeyPairs	Queries the list of key pairs	10
CreateKeyPair	Creates a key pair	10

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AssociateInstancesKeyPairs	Associates a key with an instance	10
DisassociateInstancesKeyPairs	Disassociates key pairs from instances	10
DeleteKeyPairs	Deletes key pairs	10
ModifyKeyPairAttribute	Modifies key pair attributes	10
ImportKeyPair	Imports key pairs	10

Security Group APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AssociateSecurityGroups	Associates security groups with instances	10
DisassociateSecurityGroups	Disassociates security groups from instances	10

Network APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeInternetChargeTypeConfigs	Queries the network billing methods	10
InquiryPriceResetInstancesInternetMaxBandwidth	Queries the price of public network bandwidth for an instance with a new maximum bandwidth	10
ResetInstancesInternetMaxBandwidth	Changes the maximum public network bandwidth of an instance	10
ModifyInstancesVpcAttribute	Modifies instance VPC attributes	10

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Instance Launch Template APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeLaunchTemplates	Queries instance launch templates	20
CreateLaunchTemplateVersion	Creating a instance launch template version	20
DeleteLaunchTemplate	Deleting an instance launch template	20
DeleteLaunchTemplateVersions	Deletes one or more instance launch template versions	20
DescribeLaunchTemplateVersions	Queries instance launch template versions	20
ModifyLaunchTemplateDefaultVersion	Modifies the default version of the instance launch template	20

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Making API Requests
Request Structure

Last updated：2023-03-07 11:09:49

1. Service Address

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

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

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Common Params

Last updated：2023-03-07 11:09:50

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

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

Common parameters for Signature Algorithm v3

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

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

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

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

Example of an HTTP GET request structure:

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

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/20
18-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993
f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

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

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

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

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

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

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

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

--58731222010402
Content-Disposition: form-data; name="Offset"

0
--58731222010402
Content-Disposition: form-data; name="Limit"

10
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

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

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

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

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&Sign
atureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb45
9b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId
=AKIDEXAMPLE

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

Example of an HTTP POST request structure:

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

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

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

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Signature v3

Last updated：2020-09-17 17:54:07

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses `POST` .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty st “” for POST requests, and is the string after the question mark (?) for GET requests. Fo example: Limit=10&Offset=0。 Note: `CanonicalQueryString` must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All speci characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of `host` `content-type` . Custom headers can be added to participate in the signature proce improve the uniqueness and security of the request. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase with the lead and trailing spaces removed, so they are concatenated in the format of key:value\n format; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` . Note: `content-type` must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the sever will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the heac in CanonicalHeaders). `Content-type` and `host` are required headers. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is `content-type;host`
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as `{"Limit": 1, "Filter`

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

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

```
POST
/

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

content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always `TC3-HMAC-SHA256` .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter `X-TC-Timestamp` in request header, which is the UNIX timestamp of the current time in seconds, such as `1551113065` in this example.
CredentialScope	Scope of the credential in the format of `Date/service/tc3_request` , including date, requested service and termination string (tc3_request). **`Date` is a date in UT time, whose value should match the UTC date converted by the common parameter `X-TC-Timestamp` ;** `service` is the product name, which should m the domain name of the product called. The calculation result in this example is `2015/cvm/tc3_request` .

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

Note:

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

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

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

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

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

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

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2) Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

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

The following example shows a finished authorization header:

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

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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```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";
```

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

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

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

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

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

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

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

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

Python

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

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

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

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

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

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


# ************* Step 3: Calculate the Signature *************
# Function for computing signature digest
def sign(key, msg):
return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha2
56).hexdigest()
print(signature)

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

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

Golang

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```go
package main

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

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

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

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

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

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

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

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

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

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

PHP

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

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

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

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

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

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

Ruby

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

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

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

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

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

puts canonical_request

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

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

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

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

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

DotNet

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

public class Application
{
public static string SHA256Hex(string s)
{
using (SHA256 algo = SHA256.Create())
{
byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
StringBuilder builder = new StringBuilder();
for (int i = 0; i < hashbytes.Length; ++i)
{
builder.Append(hashbytes[i].ToString("x2"));
}
return builder.ToString();
}
}
public static byte[] HmacSHA256(byte[] key, byte[] msg)
{
using (HMACSHA256 mac = new HMACSHA256(key))
{
return mac.ComputeHash(msg);
}
}

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

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

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

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

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

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

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}
public static void Main(string[] args)
{
// SecretID and SecretKey
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";

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

// The timestamp `2019-02-26 00:44:25` used here is only for reference. In a proj
ect, use the following parameter:
// DateTime date = DateTime.UtcNow;
// Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds
(1551113065);
string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\u672a\\u5
47d\\u540d\"], \"Name\": \"instance-name\"}]}";

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

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

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NodeJS

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

function sha256(message, secret = '', encoding) {
const hmac = crypto.createHmac('sha256', secret)
return hmac.update(message).digest(encoding)
}
function getHash(message, encoding = 'hex') {
const hash = crypto.createHash('sha256')
return hash.update(message).digest(encoding)
}
function getDate(timestamp) {
const date = new Date(timestamp * 1000)
const year = date.getUTCFullYear()
const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
const day = ('0' + date.getUTCDate()).slice(-2)
return `${year}-${month}-${day}`
}
function main(){

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

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

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

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

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

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

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

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

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

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

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

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C++

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

using namespace std;

string get_data(int64_t &timestamp)
{
string utcDate;
char buff[20] = {0};
// time_t timenow;
struct tm sttime;
sttime = *gmtime(&timestamp);
strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
utcDate = string(buff);
return utcDate;
}
string int2str(int64_t n)
{
std::stringstream ss;
ss << n;
return ss.str();
}
string sha256Hex(const string &str)
{
char buf[3];
unsigned char hash[SHA256_DIGEST_LENGTH];
SHA256_CTX sha256;
SHA256_Init(&sha256);
SHA256_Update(&sha256, str.c_str(), str.size());
SHA256_Final(hash, &sha256);
std::string NewString = "";
for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
{
snprintf(buf, sizeof(buf), "%02x", hash[i]);
NewString = NewString + buf;
}
return NewString;
```

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

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

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

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

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

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

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

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```
return output;
}

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

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

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

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

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

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

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

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

Signature Failure

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

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

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Signature

Last updated：2021-07-29 16:04:56

Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.
The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the TencentCloud API Key page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the TencentCloud API Key page to apply for security credentials.
Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*******';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins
-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5
yKBZQpn74WFkmLPx3*******&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

Python

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

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

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

Golang

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

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

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$param["Nonce"] = 11886;//rand();
$param["Timestamp"] = 1465185768;//time();
$param["Region"] = "ap-guangzhou";
$param["SecretId"] = $secretId;
$param["Version"] = "2017-03-12";
$param["Action"] = "DescribeInstances";
$param["InstanceIds.0"] = "ins-09dx96dg";
$param["Limit"] = 20;
$param["Offset"] = 0;
ksort($param);
$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param as $key => $value ) {
$signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);
$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
```

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

Ruby

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

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

DotNet

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

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

NodeJS

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

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

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

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Responses

Last updated：2019-12-05 19:20:45

Response for Successful Requests

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

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

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

Response for Failed Requests

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

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

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

Common Error Codes

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

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

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

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Region APIs
DescribeZones

Last updated：2024-01-04 16:10:58

1. API Description

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

This API is used to query availability zones.

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

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the 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: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of availability zones.
ZoneSet	Array of	List of availability zones.

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

4. Example

Example1 Querying the Chinese name of an availability zone

This example shows you how to query information of availability zones in the Guangzhou region. To return its Chinese name of the availability zone, you need to pass the parameter `Language=zh-CN` .

Input Example

```
POST / HTTP/1.1
Host: cvm.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeZones
X-TC-Language: zh-CN
&<Common request parameters>

{}
```

Output Example

```
{
"Response": {
"TotalCount": 5,
"ZoneSet": [
{
"ZoneState": "UNAVAILABLE",
"ZoneId": "100001",
"Zone": "ap-guangzhou-1",
"ZoneName": "Guangzhou Zone 1"
},
{
"ZoneState": "AVAILABLE",
"ZoneId": "100002",
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2"
},
{
"ZoneState": "AVAILABLE",
"ZoneId": "100003",
```

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```
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3"
},
{
"ZoneState": "AVAILABLE",
"ZoneId": "100004",
"Zone": "ap-guangzhou-4",
"ZoneName": "Guangzhou Zone 4"
},
{
"ZoneState": "AVAILABLE",
"ZoneId": "100005",
"Zone": "ap-guangzhou-5",
"ZoneName": "Guangzhou Zone 5"
}
],
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```

Example2 Querying the English name of an availability zone

This example shows you how to query the availability zones in the Guangzhou region. Its English name will be returned by default if the parameter `Language` is not passed in.

Input Example

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

Output Example

```
{
"Response": {
"TotalCount": 5,
"ZoneSet": [
{
"ZoneState": "UNAVAILABLE",
"ZoneId": "100001",
"Zone": "ap-guangzhou-1",
"ZoneName": "Guangzhou Zone 1"
},
{
"ZoneState": "AVAILABLE",
"ZoneId": "100002",
```

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```
"Zone": "ap-guangzhou-2",
"ZoneName": "Guangzhou Zone 2"
},
{
"ZoneState": "AVAILABLE",
"ZoneId": "100003",
"Zone": "ap-guangzhou-3",
"ZoneName": "Guangzhou Zone 3"
},
{
"ZoneState": "AVAILABLE",
"ZoneId": "100004",
"Zone": "ap-guangzhou-4",
"ZoneName": "Guangzhou Zone 4"
},
{
"ZoneState": "AVAILABLE",
"ZoneId": "100005",
"Zone": "ap-guangzhou-5",
"ZoneName": "Guangzhou Zone 5"
}
],
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```


5. Developer Resources

SDK

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

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

Command Line Interface

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- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidFilter	Invalid filter.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
UnsupportedOperation	Unsupported operation.

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Instance APIs
DescribeInstances

Last updated：2024-01-04 16:11:12

1. API Description

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

This API is used to query the details of instances.

- You can filter the query results with the instance `ID`, name, or billing method. See `Filter` for more information.
- If no parameter is defined, a certain number of instances under the current account will be returned. The number is specified by `Limit` and is 20 by default.

A maximum of 40 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the 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: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	No	Array of String	Query by instance ID(s). For example, instance ID: `ins-xxxxxxxx`. For the specific format, refer to section `Ids.N` of the API Introduction. You can query up to 100 instances in each request.

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			However, `InstanceIds` and `Filters` cannot be specified at the same time.
Filters.N	No	Array of Filter	Filters • `zone` - String - Optional - Filter by the availability zone. • `project-id` - Integer - Optional - Filter by the project ID. You can query the list of created projects by calling `DescribeProject` or logging in to the CVM console. You can also call `AddProject` to create projects. • `host-id` - String - Optional - Filter by the CDH instance ID. Format: `host-xxxxxxxx` . `vpc-id` - String - Optional - Filter by the VPC ID. Format: `vpc-xxxxxxxx` . • `subnet-id` - String - Optional - Filter by the subnet ID. Format: `subnet-xxxxxxxx` . `instance-id` - String - Optional - Filter by the instance ID. Format: `ins-xxxxxxxx` . `security-group-id` - String - Optional - Filter by the security group ID. Format: `sg-8jlk3f3r` . `instance-name` - String - Optional - Filter by the instance name. `instance-charge-type` - String - Optional - Filter by the instance billing method. `POSTPAID_BY_HOUR` : pay-as-you-go | `CDHPAID` : You are only billed for CDH instances, not the CVMs running on the CDH instances. `private-ip-address` - String - Optional - Filter by the private IP address of the instance's primary ENI. `public-ip-address` - String - Optional - Filter by the public IP address of the instance's primary ENI, including the IP addresses automatically assigned during the instance creation and the EIPs manually associated after the instance creation. • `tag-key` - String - Optional - Filter by the tag key. `tag-value` - String - Optional - Filter by the tag value. • `tag:tag-key` - String - Optional - Filter by the tag key-value pair. Replace `tag-key` with the actual tag keys. See example 2. Each request can have up to 10 `Filters` and 5 `Filters.Values` . You cannot specify `InstanceIds` and `Filters` at the same time.
Offset	No	Integer	Offset; default value: 0. For more information on `Offset` , see the corresponding section in API Introduction.

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Limit	No	Integer	Number of results returned; default value: 20; maximum: 100. For more information on `Limit` , see the corresponding section in API Introduction.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of instances meeting the filtering conditions.
InstanceSet	Array of Instance	Detailed instance 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 list of instances

This example shows you how to query instances in Guangzhou Zone 1 and Guangzhou Zone 2 and return up to one result.

Input Example

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

{
"Limit": "1",
"Filters": [
{
"Values": [
"ap-guangzhou-2",
"ap-guangzhou-1"
],
"Name": "zone"
}
```

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

Output Example

```
{
"Response": {
"InstanceSet": [
{
"RenewFlag": "NOTIFY_AND_MANUAL_RENEW",
"Uuid": "e85f1388-0422-410d-8e50-bef540e78c18",
"InstanceState": "RUNNING",
"LatestOperationState": "SUCCESS",
"LoginSettings": {
"Password": "123qwe!@#QWE",
"KeepImageLogin": "False",
"KeyIds": [
"skey-b4vakk62"
]
},
"IPv6Addresses": [
"2001:0db8:86a3:08d3:1319:8a2e:0370:7344"
],
"RestrictState": "PROTECTIVELY_ISOLATED",
"ExpiredTime": "2020-09-22T00:00:00+00:00",
"DisasterRecoverGroupId": "",
"Memory": 1,
"CreatedTime": "2020-09-22T00:00:00+00:00",
"CPU": 1,
"RdmaIpAddresses": [],
"CamRoleName": "",
"PublicIpAddresses": [
"123.207.11.190"
],
"Tags": [
{
"Value": "test",
"Key": "test"
}
],
"InstanceId": "ins-xlsyru2j",
"ImageId": "img-8toqc6s3",
"StopChargingMode": "NOT_APPLICABLE",
"InstanceChargeType": "POSTPAID_BY_HOUR",
"InstanceType": "S2.SMALL2",
```

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```
"SystemDisk": {
"DiskSize": 50,
"CdcId": null,
"DiskId": "disk-czsodtl1",
"DiskType": "CLOUD_SSD"
},
"Placement": {
"HostId": "host-h3m57oik",
"ProjectId": 1174660,
"HostIds": [],
"Zone": "ap-guangzhou-1",
"HostIps": []
},
"PrivateIpAddresses": [
"172.16.32.78"
],
"OsName": "CentOS 7.4 64bit",
"SecurityGroupIds": [
"sg-p1ezv4wz"
],
"InstanceName": "test",
"DataDisks": [
{
"DeleteWithInstance": true,
"Encrypt": true,
"CdcId": null,
"DiskType": "CLOUD_SSD",
"ThroughputPerformance": 0,
"KmsKeyId": null,
"DiskSize": 50,
"SnapshotId": null,
"DiskId": "disk-bzsodtn1"
}
],
"IsolatedSource": "NOTISOLATED",
"VirtualPrivateCloud": {
"SubnetId": "subnet-mv4sn55k",
"AsVpcGateway": false,
"Ipv6AddressCount": 1,
"VpcId": "vpc-m0cnatxj",
"PrivateIpAddresses": [
"172.16.3.59"
]
},
"LatestOperationRequestId": "c7de1287-061d-4ace-8caf-6ad8e5a2f29a",
"InternetAccessible": {
"PublicIpAssigned": true,
```


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```
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"BandwidthPackageId": null,
"InternetMaxBandwidthOut": 1
},
"HpcClusterId": "",
"LatestOperation": "ResetInstancesType"
}
],
"TotalCount": 2,
"RequestId": "d655191e-a39d-43d2-8349-8c3f2bf4b327"
}
}
```

Example2 Querying instances associated with the specified tag

This example shows you how to query the list of instances associated with the tag `city:shenzhen` .

Input Example

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

{
"Limit": "1",
"Filters": [
{
"Values": [
"shenzhen"
],
"Name": "tag:city"
}
],
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"InstanceSet": [
{
"RenewFlag": "NOTIFY_AND_MANUAL_RENEW",
"Uuid": "68b510db-b4c1-4630-a62b-73d0c7c970f9",
```

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```
"InstanceState": "RUNNING",
"LatestOperationState": "SUCCESS",
"OsName": "CentOS 7.6 64bit",
"CreatedTime": "2020-03-10T02:43:51Z",
"RestrictState": "NORMAL",
"ExpiredTime": "2020-04-10T02:47:36Z",
"DisasterRecoverGroupId": "",
"Memory": 1,
"IPv6Addresses": null,
"CPU": 1,
"CamRoleName": "",
"PublicIpAddresses": [
"123.207.11.190"
],
"Tags": [
{
"Value": "shenzhen",
"Key": "city"
}
],
"InstanceId": "ins-9bxebleo",
"ImageId": "img-9qabwvbn",
"StopChargingMode": "NOT_APPLICABLE",
"InstanceChargeType": "PREPAID",
"InstanceType": "S1.SMALL1",
"SystemDisk": {
"DiskSize": 50,
"DiskId": "disk-nucurerk",
"DiskType": "CLOUD_PREMIUM"
},
"IsolatedSource": "NOTISOLATED",
"Placement": {
"ProjectId": 1174660,
"HostId": null,
"Zone": "ap-guangzhou-2"
},
"PrivateIpAddresses": [
"172.16.32.78"
],
"LoginSettings": {
"KeyIds": null
},
"SecurityGroupIds": [
"sg-p1ezv4wz"
],
"InstanceName": "Test instance",
"DataDisks": [],
```


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```
"VirtualPrivateCloud": {
"SubnetId": "subnet-a2676p0e",
"AsVpcGateway": false,
"VpcId": "vpc-g7wzcv7n"
},
"LatestOperationRequestId": "3554eb5b-1cfa-471a-ae76-dc436c9d43e8",
"InternetAccessible": {
"InternetMaxBandwidthOut": 1,
"InternetChargeType": "BANDWIDTH_PREPAID"
},
"RdmaIpAddresses": [],
"HpcClusterId": "",
"LatestOperation": "RenewInstances"
}
],
"TotalCount": 1,
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```

Example3 Querying the latest operation and status

This example shows you how to use `DescribeInstances` to query an instance after using `StopInstances` to stop it. You will see that the value of `LatestOperation` is `StopInstances` and `LatestOperationState` is `OPERATING`.

Input Example

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

{
"Limit": "1",
"Filters": [
{
"Values": [
"ap-guangzhou-2",
"ap-guangzhou-1"
],
"Name": "zone"
}
],
```

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```
"Offset": "0"
}
```

Output Example


```
{
"Response": {
"InstanceSet": [
{
"RenewFlag": "NOTIFY_AND_MANUAL_RENEW",
"Uuid": "e85f1388-0422-410d-8e50-bef540e78c18",
"InstanceState": "RUNNING",
"LatestOperationState": "OPERATING",
"LoginSettings": {
"Password": "123qwe!@#QWE",
"KeepImageLogin": "False",
"KeyIds": [
"skey-b4vakk62"
]
},
"IPv6Addresses": [
"2001:0db8:86a3:08d3:1319:8a2e:0370:7344"
],
"RestrictState": "PROTECTIVELY_ISOLATED",
"ExpiredTime": "2020-09-22T00:00:00+00:00",
"DisasterRecoverGroupId": "xx",
"Memory": 1,
"CreatedTime": "2020-09-22T00:00:00+00:00",
"CPU": 1,
"RdmaIpAddresses": [],
"CamRoleName": "",
"PublicIpAddresses": [
"123.207.11.190"
],
"Tags": [
{
"Value": "test",
"Key": "test"
}
],
"InstanceId": "ins-xlsyru2j",
"ImageId": "img-8toqc6s3",
"StopChargingMode": "NOT_APPLICABLE",
"InstanceChargeType": "POSTPAID_BY_HOUR",
"InstanceType": "S2.SMALL2",
"SystemDisk": {
```


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```
"DiskSize": 50,
"CdcId": null,
"DiskId": "disk-czsodtl1",
"DiskType": "CLOUD_SSD"
},
"Placement": {
"HostId": "host-h3m57oik",
"ProjectId": 1174660,
"HostIds": [],
"Zone": "ap-guangzhou-1",
"HostIps": []
},
"PrivateIpAddresses": [
"172.16.32.78"
],
"OsName": "CentOS 7.4 64bit",
"SecurityGroupIds": [
"sg-p1ezv4wz"
],
"InstanceName": "test",
"DataDisks": [
{
"DeleteWithInstance": true,
"Encrypt": true,
"CdcId": null,
"DiskType": "CLOUD_SSD",
"ThroughputPerformance": 0,
"KmsKeyId": null,
"DiskSize": 50,
"SnapshotId": null,
"DiskId": "disk-bzsodtn1"
}
],
"IsolatedSource": "NOTISOLATED",
"VirtualPrivateCloud": {
"SubnetId": "subnet-mv4sn55k",
"AsVpcGateway": false,
"Ipv6AddressCount": 1,
"VpcId": "vpc-m0cnatxj",
"PrivateIpAddresses": [
"172.16.3.59"
]
},
"LatestOperationRequestId": "c7de1287-061d-4ace-8caf-6ad8e5a2f29a",
"InternetAccessible": {
"PublicIpAssigned": true,
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
```


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```
"BandwidthPackageId": null,
"InternetMaxBandwidthOut": 1
},
"HpcClusterId": "",
"LatestOperation": "StopInstances"
}
],
"TotalCount": 2,
"RequestId": "d655191e-a39d-43d2-8349-8c3f2bf4b327"
}
}
```


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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.IllegalTagKey	The tag key contains invalid characters.
FailedOperation.IllegalTagValue	The tag value contains invalid characters.

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FailedOperation.TagKeyReserved	The tag key specified in the request is reserved for the system.
InternalServerError	Internal error.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	`Filter`
InvalidHostId.Malformed	Invalid CDH `ID`. The specified CDH `ID` has an invalid format. For example, `host-1122` has an invalid `ID` length.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.IPAddressMalformed	Invalid IP format
InvalidParameterValue.IPv6AddressMalformed	Invalid IPv6 address
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidIpFormat	Invalid IP address.
InvalidParameterValue.InvalidTimeFormat	Incorrect time format.
InvalidParameterValue.InvalidVagueName	Invalid fuzzy query string
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.SubnetIdMalformed	Invalid subnet ID. Please provide a subnet ID in the format of subnet-xxxxxxxx, where “x” can be a lowercase letter or number.
InvalidParameterValue.TagKeyNotFound	The specified tag does not exist
InvalidParameterValue.UuidMalformed	Invalid UUID.
InvalidParameterValue.VpcIdMalformed	The VPC ID `xxx` is invalid. Please provide a VPC ID in the format of vpc-xxxxxxxx, where “x” can be a lowercase letter or number.

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InvalidSecurityGroupId.NotFound	The specified `security group ID` does not exist.
InvalidSgId.Malformed	The specified `security group ID` is in the wrong format. For example, `sg-ide32` has an invalid `instance ID` length.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
ResourceNotFound.HpcCluster	The HPC cluster does not exist.
UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnsupportedOperation	Unsupported operation.

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DescribeInstanceFamilyConfigs

Last updated：2024-01-04 16:11:12

1. API Description

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

This API is used to query a list of model families available to the current user in the current region.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeInstanceFamilyConfigs.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
InstanceFamilyConfigSet	Array of InstanceFamilyConfig	List of instance model families
RequestId	String	The unique request ID, which is returned for each

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		request. RequestId is required for locating a problem.

4. Example

Example1 Querying supported instance families

This example shows you how to query the supported instance families in the Guangzhou region.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeInstanceFamilyConfigs
&Region=ap-guangzhou
&<Common request parameters>
```

Output Example

```
{
"Response": {
"InstanceFamilyConfigSet": [
{
"InstanceFamilyName": "Standard S1",
"InstanceFamily": "S1"
},
{
"InstanceFamilyName": "Network-optimized N1",
"InstanceFamily": "N1"
},
{
"InstanceFamilyName": "High IO I1",
"InstanceFamily": "I1"
},
{
"InstanceFamilyName": "MEM optimized M1",
"InstanceFamily": "M1"
},
{
"InstanceFamilyName": "Standard S2",
"InstanceFamily": "S2"
},
{
"InstanceFamilyName": "Standard network enhanced SN2",
"InstanceFamily": "SN2"
},
{
```

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```
"InstanceFamilyName": "High IO I2",
"InstanceFamily": "I2"
},
{
"InstanceFamilyName": "MEM optimized M2",
"InstanceFamily": "M2"
},
{
"InstanceFamilyName": "Compute C2",
"InstanceFamily": "C2"
},
{
"InstanceFamilyName": "Compute Network-optimized CN2",
"InstanceFamily": "CN2"
},
{
"InstanceFamilyName": "Standard S3",
"InstanceFamily": "S3"
},
{
"InstanceFamilyName": "Compute C3",
"InstanceFamily": "C3"
},
{
"InstanceFamilyName": "FPGA FX2",
"InstanceFamily": "FX2"
},
{
"InstanceFamilyName": "GPU compute GN2",
"InstanceFamily": "GN2"
},
{
"InstanceFamilyName": "GPU rendering GA2",
"InstanceFamily": "GA2"
},
{
"InstanceFamilyName": "GPU compute GN8",
"InstanceFamily": "GN8"
},
{
"InstanceFamilyName": "Dedicated",
"InstanceFamily": "CDH"
},
{
"InstanceFamilyName": "Shared core",
"InstanceFamily": "SHARED"
},
```


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```
{
"InstanceFamilyName": "Special models",
"InstanceFamily": "SPECIAL"
},
{
"InstanceFamilyName": "Others",
"InstanceFamily": "OTHER"
}
],
"RequestId": "b061782b-934a-4e53-b1eb-d5f2fed8130e"
}
}
```


5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.

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InvalidParameterValue	Incorrect parameter value.
InvalidRegion.NotFound	The region cannot be found.

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DescribeZoneInstanceConfigInfos

Last updated：2024-01-04 16:11:11

1. API Description

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

This API is used to query the configurations of models in an availability zone.

A maximum of 40 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeZoneInstanceConfigInfos.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
Filters.N	No	Array of Filter	• instance-charge-type-String-required: no-(filter) billing mode of instances. (POSTPAID_BY_HOUR: pay-as-you-go billing by hour | SPOTPAID: spot billing, which is suitable for a [spot instance](https://intl.cloud.Tencent.com/document/product/213/17817) | CDHPAID: CDH billing, that is, billing only for CDH, but not for the instances on CDH.)

3. Output Parameters

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Parameter Name	Type	Description
InstanceTypeQuotaSet	Array of InstanceTypeQuotaItem	List of model configurations for the availability zone.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the list of instance configurations in an availability zone

This example shows you how to query the list of instance configurations using availability zone and billing method as filters.

Input Example

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

{
"Filters": [
{
"Values": [
"POSTPAID_BY_HOUR"
],
"Name": "instance-charge-type"
},
{
"Values": [
"ap-guangzhou-2"
],
"Name": "zone"
}
]
}
```

Output Example

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

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```
"InstanceTypeQuotaSet": [
{
"Status": "SELL",
"Zone": "ap-guangzhou-2",
"NetworkCard": 0,
"Price": {
"DiscountPrice": 59.0,
"OriginalPriceThreeYear": 0.0,
"DiscountOneYear": 0.0,
"UnitPrice": 0.0,
"UnitPriceThirdStep": 0.0,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 0.0,
"UnitPriceSecondStep": 0.0,
"OriginalPrice": 59.0,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 0.0,
"UnitPriceDiscount": 0.0,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 708.0,
"ChargeUnit": "HOUR",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 587.64
},
"InstanceFamily": "S2",
"Externals": {},
"InstanceType": "S2.SMALL1",
"TypeName": "Standard S2",
"InstanceChargeType": "POSTPAID_BY_HOUR",
"Memory": 1,
"LocalDiskTypeList": [],
"Cpu": 1,
"SoldOutReason": "",
"StorageBlockAmount": 0,
"CpuType": "Intel Xeon E5-2680 v4",
"InstancePps": 20,
"InstanceBandwidth": 1.5,
"Gpu": 0,
"GpuCount": 0.0,
"Fpga": 0,
"Remark": "",
"Frequency": "2.4GHz"
}
],
"RequestId": "c28559ca-d3cf-40f0-9664-2ab303484efa"
```


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```
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	`Filter`
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.

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InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
InvalidRegion.NotFound	The region cannot be found.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
ResourceInsufficient.AvailabilityZoneSoldOut	The availability zone has been sold out.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.UnsupportedPool	

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DescribeInstanceTypeConfigs

Last updated：2022-02-23 10:28:30

1. API Description

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

This API is used to query the model configuration of an instance.

- You can filter the query results with `zone` or `instance-family`. For more information on filtering conditions, see `Filter`.
- If no parameter is defined, the model configuration of all the instances in the specified region will be returned.

A maximum of 40 requests can be initiated per second for this API.

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeInstanceTypeConfigs.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
Filters.N	No	Array of	• **zone**

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		Filter	Filter results by **availability zones**. For example, availability zone: ap-guangzhou-1. Type: String Required: no Valid values: list of availability zones • **instance-family** Filter results by **instance models**. For example, instance models: S1, I1 and M1. Type: Integer Required: no Each request can have up to 10 `Filters` and 1 `Filters.Values`.

3. Output Parameters

Parameter Name	Type	Description
InstanceTypeConfigSet	Array of InstanceTypeConfig	List of instance model families
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a list of instance models

This example shows you how to query instance types of the family `I1` in Guangzhou Zone 2.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeInstanceTypeConfigs
&Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-2
```

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```
&Filters.1.Name=instance-family
&Filters.1.Values.0=I1
&<Common request parameters>
```

Output Example


```
{
"Response": {
"InstanceTypeConfigSet": [
{
"Zone": "ap-guangzhou-2",
"InstanceFamily": "I1",
"InstanceType": "I1.MEDIUM4",
"CPU": 2,
"GPU": 0,
"FPGA": 0,
"Memory": 4
},
{
"Zone": "ap-guangzhou-2",
"InstanceFamily": "I1",
"InstanceType": "I1.MEDIUM8",
"CPU": 2,
"GPU": 0,
"FPGA": 0,
"Memory": 8
},
{
"Zone": "ap-guangzhou-2",
"InstanceFamily": "I1",
"InstanceType": "I1.MEDIUM16",
"CPU": 2,
"GPU": 0,
"FPGA": 0,
"Memory": 16
},
{
"Zone": "ap-guangzhou-2",
"InstanceFamily": "I1",
"InstanceType": "I1.LARGE8",
"CPU": 4,
"GPU": 0,
"FPGA": 0,
"Memory": 8
}
],
```


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```
"RequestId": "2f1fd71e-95ab-4f10-8adb-895e99d33ff5"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	`Filter`
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.
InvalidParameterValue	Incorrect parameter value.
InvalidZone.MismatchRegion	The specified `zone` does not exist.

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DescribeInstancesOperationLimit

Last updated：2024-01-04 16:11:12

1. API Description

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

This API is used to query limitations on operations on an instance.

- Currently you can use this API to query the maximum number of times you can modify the configuration of an instance.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeInstancesOperationLimit.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Query by instance ID(s). You can obtain the instance IDs from the value of `InstanceId` returned by the DescribeInstances API. For example, instance ID: ins-xxxxxxxx. (For the specific format, refer to section `ids.N` of the API Introduction.) You can query up to 100 instances in each request.
Operation	Yes	String	Operation on the instance(s).

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			• INSTANCE_DEGRADE: downgrade the instance configurations

3. Output Parameters

Parameter Name	Type	Description
InstanceOperationLimitSet	Array of OperationCountLimit	The maximum number of times you can modify the instance configurations (degrading the configurations)
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the number of configuration downgrade operations allowed

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeInstancesOperationLimit
&InstanceIds.0=ins-r8hr2upy
&Operation=INSTANCE_DEGRADE
&<Common request parameters>
```

Output Example

```
{
"Response": {
"InstanceOperationLimitSet": [
{
"Operation": "INSTANCE_DEGRADE",
"InstanceId": "ins-r8hr2upy",
"CurrentCount": 0,
"LimitCount": 5
}
],
"RequestId": "951caf78-580f-42f6-8b83-a902d051d672"
}
}
```

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5. Developer Resources

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.

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DescribeInstanceVncUrl

Last updated：2022-02-23 10:28:30

1. API Description

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

This API is used to query the Virtual Network Console (VNC) URL of an instance for its login to the VNC.

- It does not support `STOPPED` CVMs.
- A VNC URL is only valid for 15 seconds. If you do not access the URL within 15 seconds, it will become invalid and you have to query a URL again.
- Once the VNC URL is accessed, it will become invalid and you have to query a URL again if needed.
- If the connection is interrupted, you can make up to 30 reconnection attempts per minute.
- After getting the value `InstanceVncUrl`, you need to append `InstanceVncUrl=xxxx` to the end of the link https://img.qcloud.com/qcloud/app/active_vnc/index.html?.
  - `InstanceVncUrl`: its value will be returned after the API is successfully called.

    The final URL is in the following format:

```
https://img.qcloud.com/qcloud/app/active_vnc/index.html?InstanceVncUrl=wss%3A%2F%
2Fbjvnc.qcloud.com%3A26789%2Fvnc%3Fs%3DaHpjWnRVMFNhYmxKdDM5MjRHNlVTSVQwajNUSW0wb2
tBbmFtREFCTmFrcy8vUUNPMG0wSHZNOUUxRm5PMmUzWmFDcWlOdDJIbUJxSTZDL0RXcHZxYnZZMmRkWWZ
WcEZia2lyb09XMzdKNmM9
```

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

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2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeInstanceVncUrl.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the list of regions supported by the product.
InstanceId	Yes	String	Instance ID. To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response.

3. Output Parameters

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

4. Example

Example1 Querying the VNC URL of an instance

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

Input Example

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```
GET https://cvm.tencentcloudapi.com/?Action=DescribeInstanceVncUrl
&Region=ap-beijing
&InstanceId=ins-r9hr2upy
&<Common request parameters>
```

Output Example


```
{
"Response": {
"InstanceVncUrl": "wss%3A%2F%2Fbjvnc.qcloud.com%3A26789%2Fvnc%3Fs%3DaHpjWnRVMFNhY
mxKdDM5MjRHNlVTSVQwajNUSW0wb2tBbmFtREFCTmFrcy8vUUNPMG0wSHZNOUUxRm5PMmUzWmFDcWlOdD
JIbUJxSTZDL0RXcHZxYnZZMmRkWWZWcEZia2lyb09XMzdKNmM9",
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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Error Code	Description
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceState	This operation cannot be performed due to the current instance status.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.

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UnsupportedOperation.InstanceStateStopped	The instance has been shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminated	Terminated instances are not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.SpecialInstanceType	This special instance type does not support the operation.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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InquiryPriceRunInstances

Last updated：2024-01-04 16:11:09

1. API Description

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

This API is used to query the price of creating instances. You can only use this API for instances whose configuration is within the purchase limit. For more information, see RunInstances.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquiryPriceRunInstances.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
Placement	Yes	Placement	Location of the instance. You can use this parameter to specify the attributes of the instance, such as its availability zone and project. **Note: `Placement` is required when `LaunchTemplate` is not specified. If both the**

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			parameters are passed in, `Placement` prevails.
ImageId	Yes	String	Image ID in the format of `img-xxx` . There are three types of images: • Public images • Custom images • Shared images You can obtain the available image IDs in the following ways: • For IDs of `public images` , `custom images` , and `shared images` , log in to the CVM console to query the information. • Call DescribeImages and look for `ImageId` in the response. **Note: `ImageId` is required when `LaunchTemplate` is not specified. If both the parameters are passed in, `ImageId` prevails.**
InstanceChargeType	No	String	The instance billing method. • POSTPAID_BY_HOUR: Pay-as-you-go on an hourly basis Default value: POSTPAID_BY_HOUR.
InstanceChargePrepaid	No	InstanceChargePrepaid	Details of the monthly subscription, including the purchase period, auto-renewal. It is required if the `InstanceChargeType` is `PREPAID` .
InstanceType	No	String	The instance model. Different resource specifications are specified for different models. For specific values, call DescribeInstanceTypeConfigs to retrieve the latest specification list or refer to Instance Types. If the

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			parameter is not specified, `S1.SMALL1` will be used by default.
SystemDisk	No	SystemDisk	System disk configuration of the instance. If this parameter is not specified, the default value will be used.
DataDisks.N	No	Array of DataDisk	Data disk configuration of the instance. If the parameter is not specified, no data disk will be purchased by default. If you want to purchase data disks, you can specify 21 data disks, including up to 1 `LOCAL_BASIC` data disk or `LOCAL_SSD` data disk and up to 20 `CLOUD_BASIC` data disks, `CLOUD_PREMIUM` data disks, or `CLOUD_SSD` data disks.
VirtualPrivateCloud	No	VirtualPrivateCloud	VPC configurations (VPC ID, subnet ID, etc). If it's not specified, the classic network will be used by default. If a VPC IP is specified in this parameter, the `InstanceCount` can only be 1.
InternetAccessible	No	InternetAccessible	Configuration of public network bandwidth. If it's not specified, 0 Mbps is used by default.
InstanceCount	No	Integer	Number of instances to purchase. Value range: 1 (default) to 100. It cannot exceed the remaining CVM quota of the user. For more information on quota, see Restrictions on CVM Instance Purchase.
InstanceName	No	String	Instance name (up to 60 characters) • If this parameter is not specified, **Unnamed** will be

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			displayed by default. • If you purchase multiple instances at the same time and specify a pattern string `{R:x}`, numbers `[x, x+n-1]` will be generated, where `n` represents the number of instances purchased. For example, you specify a pattern string, `server_{R:3}`. If you only purchase 1 instance, the instance will be named `server_3`; if you purchase 2, they will be named `server_3` and `server_4`. You can specify multiple pattern strings in the format of `{R:x}`. • If you purchase multiple instances at the same time and do not specify a pattern string, the instance names will be suffixed by `1, 2...n`, where `n` represents the number of instances purchased. For example, if you purchase 2 instances and the instance name body is `server_`, the instance names will be `server_1` and `server_2`.
LoginSettings	No	LoginSettings	Login settings of the instance. You can use this parameter to set the login method, password, and key of the instance, or keep the original login settings of the image. By default, a random password will be generated and sent to you via the Message Center.
SecurityGroupIds.N	No	Array of String	Security groups to which the instance belongs. To obtain the security group IDs, you can call DescribeSecurityGroups and look for the `sgId` fields in the response. If this parameter is not

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			specified, the instance will not be associated with any security group by default.
EnhancedService	No	EnhancedService	Enhanced services. You can use this parameter to specify whether to enable services such as Cloud Security and Cloud Monitor. If this parameter is not specified, Cloud Monitor and Cloud Security will be enabled by default.
ClientToken	No	String	A unique string supplied by the client to ensure that the request is idempotent. Its maximum length is 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be guaranteed. For more information, see Ensuring Idempotency.
HostName	No	String	Host name of the CVM. • Periods (.) or hyphens (-) cannot be the start or end of a host name or appear consecutively in a host name. • Windows: 2-15 characters, containing [a-z], [A-Z], [0-9] and hyphens (-). Digit-only strings are not allowed. • For other instances, such as Linux instances, the host name must be 2-30 characters long. It supports multiple periods (.) and allows uppercase and lowercase letters, numbers, and hyphens (-) between any two periods (.).
TagSpecification.N	No	Array of TagSpecification	The tag description list. This parameter is used to bind a tag to a resource instance. A tag can only be bound to CVM instances.
InstanceMarketOptions	No	InstanceMarketOptionsRequest	The market options of the instance.

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HpcClusterId	No	String	HPC cluster ID.

3. Output Parameters

Parameter Name	Type	Description
Price	Price	Price of the instance with the specified configurations.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the price of an instance with only the required parameters

This example queries the price of creating an instance in Shanghai Zone 2 with the image `img-pmqg1cw7` . Only the required `Placement.Zone` and `ImageId` parameters are passed in. The other parameters use system default values.

Input Example

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

{
"Placement": {
"Zone": "ap-shanghai-2"
},
"ImageId": "img-pmqg1cw7"
}
```

Output Example

```
{
"Response": {
"Price": {
"InstancePrice": {
```

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```
"DiscountPrice": 0.0,
"OriginalPriceThreeYear": 0.0,
"DiscountOneYear": 0.0,
"UnitPrice": 0.2,
"UnitPriceThirdStep": 0.1,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 0.06,
"UnitPriceSecondStep": 0.12,
"OriginalPrice": 0.0,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 0.06,
"UnitPriceDiscount": 0.08,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 0.0,
"ChargeUnit": "HOUR",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 0.0
},
"BandwidthPrice": {
"DiscountPrice": 0.0,
"OriginalPriceThreeYear": 0.0,
"DiscountOneYear": 0.0,
"UnitPrice": 0.0,
"UnitPriceThirdStep": 0.0,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 0.0,
"UnitPriceSecondStep": 0.0,
"OriginalPrice": 0.0,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 0.0,
"UnitPriceDiscount": 0.0,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 0.0,
"ChargeUnit": "HOUR",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 0.0
}
},
"RequestId": "65b9edac-bca6-496b-a404-29f503b32495"
}
}
```


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Example2 Querying the price of a monthly-subscribed instance

This example shows you how to query the price for purchasing one 64C256G standard (S5.16XLARGE256) instance in Shanghai Zone 2 using the image `img-pmqg1cw7` . The other configurations are as follows: Billing method: monthly subscription for one month with auto-renewal upon expiration; System disk: 50 GB Premium Cloud Storage; Data disk: 100 GB Premium Cloud Storage; Network type: VPC; Public network billing: pay-as-you-go by traffic on an hourly basis; Public network bandwidth cap: 10 Mbps; Public IP: randomly assigned; Instance name: QCLOUD-TEST; Login password: Qcloud@TestApi123++; Cloud Monitor service: enabled; Anti-DDoS: enabled.

Input Example

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

{
"SystemDisk": {
"DiskSize": "50",
"DiskType": "CLOUD_PREMIUM"
},
"InstanceCount": "1",
"Placement": {
"Zone": "ap-shanghai-2"
},
"LoginSettings": {
"Password": "Qcloud@TestApi123++"
},
"ImageId": "img-pmqg1cw7",
"InstanceChargeType": "PREPAID",
"EnhancedService": {
"SecurityService": {
"Enabled": "TRUE"
},
"MonitorService": {
"Enabled": "TRUE"
}
},
"InternetAccessible": {
"PublicIpAssigned": "TRUE",
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": "10"
},
"InstanceChargePrepaid": {
"RenewFlag": "NOTIFY_AND_AUTO_RENEW",
```

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```
"Period": "1"
},
"InstanceName": "QCLOUD-TEST",
"InstanceType": "S5.16XLARGE256",
"DataDisks": [
{
"DiskSize": "100",
"DiskType": "CLOUD_PREMIUM"
}
]
}
```

Output Example

```
{
"Response": {
"Price": {
"InstancePrice": {
"DiscountPrice": 1804.9,
"OriginalPriceThreeYear": 0.0,
"DiscountOneYear": 0.0,
"UnitPrice": 0.0,
"UnitPriceThirdStep": 0.0,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 0.0,
"UnitPriceSecondStep": 0.0,
"OriginalPrice": 8884.5,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 0.0,
"UnitPriceDiscount": 0.0,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 0.0,
"ChargeUnit": "HOUR",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 0.0
},
"BandwidthPrice": {
"DiscountPrice": 0.0,
"OriginalPriceThreeYear": 0.0,
"DiscountOneYear": 0.0,
"UnitPrice": 0.8,
"UnitPriceThirdStep": 0.0,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
```

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```
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 0.0,
"UnitPriceSecondStep": 0.0,
"OriginalPrice": 0.0,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 0.0,
"UnitPriceDiscount": 0.52,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 0.0,
"ChargeUnit": "HOUR",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 0.0
}
},
"RequestId": "65b9edac-bca6-496b-a404-29f503b32495"
}
}
```

Example3 Querying the price of an hourly-billed pay-as-you-go instance

This example shows you how to query the price for purchasing one 64C256G standard (S5.16XLARGE256) instance in Shanghai Zone 2 using the image `img-pmqg1cw7` . The other configurations are as follows: Billing mode: pay-as-you-go on an hourly basis; System disk: 50 GB Premium Cloud Storage; Data disk: 100 GB Premium Cloud Storage; Network type: VPC; Public network billing: pay-as-you-go by traffic on an hourly basis; Public network bandwidth cap: 10 Mbps; Public IP: randomly assigned; Instance name: QCLOUD-TEST; Login password: Qcloud@TestApi123++; Cloud Monitor service: enabled; Anti-DDoS: enabled.

Input Example

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

{
"SystemDisk": {
"DiskSize": "50",
"DiskType": "CLOUD_PREMIUM"
},
"InstanceCount": "1",
"Placement": {
"Zone": "ap-shanghai-2"
},
"LoginSettings": {
```

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```
"Password": "Qcloud@TestApi123++"
},
"ImageId": "img-pmqg1cw7",
"InstanceChargeType": "POSTPAID_BY_HOUR",
"EnhancedService": {
"SecurityService": {
"Enabled": "TRUE"
},
"MonitorService": {
"Enabled": "TRUE"
}
},
"InternetAccessible": {
"PublicIpAssigned": "TRUE",
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": "10"
},
"InstanceName": "QCLOUD-TEST",
"InstanceType": "S5.16XLARGE256",
"DataDisks": [
{
"DiskSize": "100",
"DiskType": "CLOUD_PREMIUM"
}
]
}
```

Output Example

```
{
"Response": {
"Price": {
"InstancePrice": {
"DiscountPrice": 0.0,
"OriginalPriceThreeYear": 0.0,
"DiscountOneYear": 0.0,
"UnitPrice": 16.09,
"UnitPriceThirdStep": 16.09,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 3.33,
"UnitPriceSecondStep": 16.09,
"OriginalPrice": 0.0,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 3.33,
```

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```
"UnitPriceDiscount": 3.33,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 0.0,
"ChargeUnit": "HOUR",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 0.0
},
"BandwidthPrice": {
"DiscountPrice": 0.0,
"OriginalPriceThreeYear": 0.0,
"DiscountOneYear": 0.0,
"UnitPrice": 0.8,
"UnitPriceThirdStep": 0.0,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 0.0,
"UnitPriceSecondStep": 0.0,
"OriginalPrice": 0.0,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 0.0,
"UnitPriceDiscount": 0.52,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 0.0,
"ChargeUnit": "xx",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 0.0
}
},
"RequestId": "65b9edac-bca6-496b-a404-29f503b32495"
}
}
```


5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go

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- Tencent Cloud SDK 3.0 for 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
AccountQualificationRestrictions	Your account failed the qualification verification.
AuthFailure.CamRoleNameAuthenticateFailed	Role name authentication failed.
FailedOperation.DisasterRecoverGroupNotFound	The specified spread placement group does not exist.
FailedOperation.IllegalTagKey	The tag key contains invalid characters.
FailedOperation.IllegalTagValue	The tag value contains invalid characters.
FailedOperation.InquiryPriceFailed	Price query failed.
FailedOperation.SnapshotSizeLargerThanDataSize	The snapshot size is larger than the disk capacity. You need a larger disk space.
FailedOperation.TagKeyReserved	The tag key specified in the request is reserved for the system.
FailedOperation.TatAgentNotSupport	This image is not a Linux&x86_64 image.
InstancesQuotaLimitExceeded	You are trying to create more instances than your remaining quota allows.

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InternalError.TradeUnknownError	Internal error.
InvalidClientToken.TooLong	The specified ClientToken exceeds the maximum length of 64 bytes.
InvalidHostId.Malformed	Invalid CDH `ID`. The specified CDH `ID` has an invalid format. For example, `host-1122` has an invalid `ID` length.
InvalidHostId.NotFound	The specified HostId does not exist, or does not belong to your account.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidInstanceName.TooLong	The specified InstanceName exceeds the maximum length of 60 bytes.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameter.InternetAccessibleNotSupported	Unable to set the public network bandwidth.
InvalidParameter.SnapshotNotFound	The specified snapshot does not exist.
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.BandwidthPackageIdMalformed	The shared bandwidth package ID is invalid. Please provide a standard shared bandwidth package ID in the format similar to bwp-xxxxxxxx. In this format, the letter x stands for a lowercase character or a number.

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InvalidParameterValue.BandwidthPackageIdNotFound	The specified bandwidth package does not exist.
InvalidParameterValue.CloudSsdDataDiskSizeTooSmall	The minimum capacity of a SSD data disk is 100 GB.
InvalidParameterValue.DuplicateTags	Duplicate tags.
InvalidParameterValue.InstanceTypeNotFound	The specified instance type does not exist.
InvalidParameterValue.InstanceTypeNotSupportHpcCluster	This type of instances cannot be added to the HPC cluster.
InvalidParameterValue.InstanceTypeRequiredHpcCluster	The HPC cluster needs to be specified for the high-performance computing instance.
InvalidParameterValue.InsufficientPrice	The bid is lower than the market price.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidImageFormat	A RAW image cannot be used to create a CVM. Choose another image.
InvalidParameterValue.InvalidImageId	The image does not support this operation.
InvalidParameterValue.InvalidImageOsName	The operating system of the specified image is not available in the current region.
InvalidParameterValue.InvalidImageState	The image has another ongoing task. Please check and try again later.
InvalidParameterValue.InvalidTimeFormat	Incorrect time format.
InvalidParameterValue.InvalidUserDataFormat	Incorrect UserData format. Use the Base64-encoded format.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.

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InvalidParameterValue.RequiredLocationImage	
InvalidParameterValue.SnapshotIdMalformed	Invalid snapshot ID. Provide a snapshot ID in the format of snap-xxxxxxxx, where the letter x refers to lowercase letter or number.
InvalidParameterValue.TagKeyNotFound	The specified tag does not exist
InvalidParameterValue.TagQuotaLimitExceeded	Tag quota limit exceeded.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
InvalidPassword	Invalid password. The specified password does not meet the password requirements. For example, the password length does not meet the requirements.
InvalidPeriod	Invalid period. Valid values: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]; unit: month.
InvalidPermission	This operation is not supported for the account.
InvalidProjectId.NotFound	Invalid project ID: the specified project ID does not exist.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
LimitExceeded.DisasterRecoverGroup	The quota of the specified placement group is insufficient.
LimitExceeded.InstanceEniNumLimit	Reached the upper limit of the ENIs for the instance.
MissingParameter	Missing parameter.
MissingParameter.MonitorService	The instance type must have Cloud Monitor enabled.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
ResourceInsufficient.DisasterRecoverGroupCvmQuota	The number of instances

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	exceeded the quota limit of spread placement groups.
ResourceNotFound.HpcCluster	The HPC cluster does not exist.
ResourceNotFound.NoDefaultCbs	No default CBS resources are available.
ResourceNotFound.NoDefaultCbsWithReason	No default CBS resources are available.
ResourceUnavailable.InstanceType	This instance type is unavailable in the availability zone.
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.
UnsupportedOperation.BandwidthPackageIdNotSupported	The specified instance or network cannot use the bandwidth package.
UnsupportedOperation.InvalidDisk	The specified disk is not supported.
UnsupportedOperation.InvalidRegionDiskEncrypt	Encrypted disks are not available in the selected regions.
UnsupportedOperation.NoInstanceTypeSupportSpot	This instance type does not support spot instances.
UnsupportedOperation.NotSupportImportInstancesActionTimer	Failed to configure the scheduled action for the current instance.
UnsupportedOperation.OnlyForPrepaidAccount	Only a prepaid account supports this operation.
UnsupportedOperation.SpotUnsupportedRegion	Spot instance is not supported in this region.
UnsupportedOperation.UnderwritingInstanceTypeOnlySupportAutoRenew	For an underwriting instance, `RenewFlag` can only be set to `NOTIFY_AND_AUTO_RENEW`.
UnsupportedOperation.UnsupportedInternationalUser	This operation is not available for Tencent Cloud International users.

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InquiryPriceResetInstance

Last updated：2024-01-04 16:11:10

1. API Description

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

This API is used to query the price for reinstalling an instance.

- If you have specified the `ImageId` parameter, the price query is performed with the specified image. Otherwise, the image used by the current instance is used.
- You can only query the price for reinstallation caused by switching between Linux and Windows OS. And the system disk type of the instance must be `CLOUD_BASIC`, `CLOUD_PREMIUM`, or `CLOUD_SSD`.
- Currently, this API only supports instances in Mainland China regions.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquiryPriceResetInstance.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID. To obtain the instance IDs, you can call `DescribeInstances` and look for

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			`InstanceId` in the response.
ImageId	No	String	Image ID in the format of `img-xxx`. There are four types of images: • Public images • Custom images • Shared images • Marketplace images You can obtain the available image IDs in the following ways: • For IDs of `public images`, `custom images`, and `shared images`, log in to the console to query the information; for IDs of `marketplace images`, go to Cloud Marketplace. • Call DescribeImages and look for `ImageId` in the response.
SystemDisk	No	SystemDisk	Configuration of the system disk of the instance. For instances with a cloud disk as the system disk, you can expand the system disk by using this parameter to specify the new capacity after reinstallation. If the parameter is not specified, the system disk capacity remains unchanged by default. You can only expand the capacity of the system disk; reducing its capacity is not supported. When reinstalling the system, you can only modify the capacity of the system disk, not the type.
LoginSettings	No	LoginSettings	Login settings of the instance. You can use this parameter to set the login method, password, and key of the instance or keep the login settings of the original image. By default, a random password will be generated and sent to you via the Message Center.
EnhancedService	No	EnhancedService	Enhanced services. You can use this parameter to specify whether to enable services such as Cloud Monitor and Cloud Security. If this parameter is not specified, Cloud Monitor and Cloud Security will be enabled by default.

3. Output Parameters

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Parameter Name	Type	Description
Price	Price	Price of reinstalling the instance with the specified configuration.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the price of a pay-as-you-go instance with a new configuration

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=InquiryPriceResetInstance
&InstanceId=ins-fd8spnmq
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Price": {
"InstancePrice": {
"UnitPrice": 0.66,
"ChargeUnit": "HOUR",
"UnitPriceDiscount": 0.66,
"Discount": 100
}
},
"RequestId": "56d68b92-7004-4716-b3bf-3c2c231035c9"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InquiryPriceFailed	Price query failed.
InternalError.TradeUnknownError	Internal error.
InternalServerError	Internal error.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InstanceTypeNotFound	The specified instance type does not exist.
InvalidParameterValue.InvalidImageId	The image does not support this operation.

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InvalidParameterValue.InvalidImageIdForRetsetInstance	The image cannot be used to reinstall the current instance.
InvalidParameterValue.InvalidImageOsName	The operating system of the specified image is not available in the current region.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
MissingParameter	Missing parameter.
MissingParameter.MonitorService	The instance type must have Cloud Monitor enabled.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.
UnsupportedOperation.InvalidImageLicenseTypeForReset	The image license type does not match the instance. Select another image.
UnsupportedOperation.ModifyEncryptionNotSupported	Encryption attributes of the system disk cannot be modified.
UnsupportedOperation.RawLocalDiskInsReinstalltoQcow2	This image does not support instance reinstallation.

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InquiryPriceResetInstancesType

Last updated：2024-01-04 16:11:10

1. API Description

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

This API is used to query the price for adjusting the instance model.

- Currently, you can only use this API to query the prices of instances whose system disk type is `CLOUD_BASIC`, `CLOUD_PREMIUM`, or `CLOUD_SSD`.
- Currently, you cannot use this API to query the prices of CDH instances.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquiryPriceResetInstancesType.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID(s). You can obtain the instance IDs from the value of `InstanceId` returned by the `DescribeInstances` API. The maximum number of instances in each request is 1.
InstanceType	Yes	String	Instance model. Resources vary with the instance model. Specific values can be found in the tables of [Instance Types]

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			(https://www.tencentcloud.com/document/product/213/11518?from_cn_redirect=1) or in the latest specifications via the [DescribeInstanceTypeConfigs] (https://www.tencentcloud.com/document/product/213/15749?from_cn_redirect=1) API.

3. Output Parameters

Parameter Name	Type	Description
Price	Price	Price of the instance using the specified model
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the price of a monthly subscribed instance with new configurations

Input Example

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

{
"InstanceType": "S5.16XLARGE256",
"InstanceIds": [
"ins-xmf2ac34"
]
}
```

Output Example

```
{
"Response": {
"Price": {
"InstancePrice": {
```

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```
"OriginalPrice": 8753,
"DiscountPrice": 8753
}
},
"RequestId": "d345aa58-460a-4a13-8382-c6c99d0bc73f"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InquiryRefundPriceFailed	Failed to query the refund: the payment order is not found. Check whether the instance `ins-xxxxxxx` has expired.
InternalError.TradeUnknownError	Internal error.

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InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidHostId.Malformed	Invalid CDH `ID`. The specified CDH `ID` has an invalid format. For example, `host-1122` has an invalid `ID` length.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.BasicNetworkInstanceFamily	Only VPC is supported. The network type of the instance is classic network, which cannot be changed.
InvalidParameterValue.GPUInstanceFamily	Non-GPU instances cannot be changed to the GPU instance.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidInstanceSource	The instance configuration is upgraded for free and cannot be downgraded within 3 months.

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InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidPeriod	Invalid period. Valid values: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]; unit: month.
InvalidPermission	This operation is not supported for the account.
InvalidProjectId.NotFound	Invalid project ID: the specified project ID does not exist.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
LimitExceeded.EipNumLimit	The number of EIPs of an ENI contained in a specific instance has exceeded the maximum allowed EIPs of the target instance type. Please delete some EIPs and try again.
LimitExceeded.EniNumLimit	The number of ENIs on a specified instance exceeds the maximum ENIs allowed for the target instance type. Delete some ENIs and try again.
LimitExceeded.InstanceTypeBandwidth	Unable to adjust: the target instance type does not support the configured public network bandwidth cap. See Public Network Bandwidth Cap.
MissingParameter	Missing parameter.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
ResourceInsufficient.SpecifiedInstanceType	The specified instance type is insufficient.
ResourceUnavailable.InstanceType	This instance type is unavailable in the availability zone.
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.

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UnsupportedOperation.HeterogeneousChangeInstanceFamily	You cannot change the model of a heterogeneous instance.
UnsupportedOperation.LocalDataDiskChangeInstanceFamily	A model whose data disks are all local disks does not support cross-model configuration adjustment.
UnsupportedOperation.OriginalInstanceTypeInvalid	The original instance type is invalid.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.
UnsupportedOperation.StoppedModeStopChargingSameFamily	Configuration adjustment of the same type is not supported for instances with no charges when shut down.
UnsupportedOperation.UnsupportedARMChangeInstanceFamily	
UnsupportedOperation.UnsupportedChangeInstanceFamily	The specified model does not support cross-model configuration adjustment.
UnsupportedOperation.UnsupportedChangeInstanceFamilyToARM	Non-ARM model instances cannot be changed to the ARM model.
UnsupportedOperation.UnsupportedChangeInstanceToThisInstanceFamily	Changing to this model type for this instance is not allowed.

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InquiryPriceResizeInstanceDisks

Last updated：2024-01-04 16:11:09

1. API Description

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

This API is used to query the price for expanding data disks of an instance.

- Currently, you can only use this API to query the price of non-elastic data disks whose disk type is `CLOUD_BASIC`, `CLOUD_PREMIUM`, or `CLOUD_SSD`. You can use `DescribeDisks` to check whether a disk is elastic. If the `Portable` field in the response is `false`, it means that the disk is non-elastic.
- Currently, you cannot use this API to query the price for CDH instances. *Also, you can only query the price of expanding one data disk at a time.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquiryPriceResizeInstanceDisks.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID. To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response.

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DataDisks.N	No	Array of DataDisk	The configuration of data disks to be expanded. Currently, you can only use the API to expand non-elastic data disks whose disk type is `CLOUD_BASIC`, `CLOUD_PREMIUM`, or `CLOUD_SSD`. You can use `DescribeDisks` to check whether a disk is elastic. If the `Portable` field in the response is `false`, it means that the disk is non-elastic. Data disk capacity unit: GB; minimum increment: 10 GB. For more information about selecting a data disk type, see the product overview on cloud disks. Available data disk types are subject to the instance type (`InstanceType`). In addition, the maximum capacity allowed for expansion varies by data disk type.
ForceStop	No	Boolean	Whether to force shut down a running instances. It is recommended to manually shut down a running instance before resetting the user password. Valid values: • TRUE: force shut down an instance after a normal shutdown fails. • FALSE: do not force shut down an instance after a normal shutdown fails. Default value: FALSE. A forced shutdown is similar to switching off the power of a physical computer. It may cause data loss or file system corruption. Be sure to only force shut down a CVM when it cannot be shut down normally.

3. Output Parameters

Parameter Name	Type	Description
Price	Price	Price of the disks after being expanded to the specified configurations
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the price for expanding the disk capacity of a pay-as-you-go instance

This example shows you how to query the price for expanding the disk capacity of a pay-as-you-go instance.

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Input Example

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

{
"InstanceId": "ins-fd8spnmq",
"DataDisks": [
{
"DiskSize": "100"
}
]
}
```

Output Example

```
{
"Response": {
"Price": {
"InstancePrice": {
"DiscountPrice": 0.0,
"OriginalPriceThreeYear": 0.0,
"DiscountOneYear": 0.0,
"UnitPrice": 0.46,
"UnitPriceThirdStep": 0.0,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 0.0,
"UnitPriceSecondStep": 0.0,
"OriginalPrice": 0.0,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 0.0,
"UnitPriceDiscount": 0.0,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 0.0,
"ChargeUnit": "HOUR",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 0.0
},
"BandwidthPrice": {
"DiscountPrice": 0.0,
"OriginalPriceThreeYear": 0.0,
```

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```
"DiscountOneYear": 0.0,
"UnitPrice": 0.0,
"UnitPriceThirdStep": 0.0,
"OriginalPriceFiveYear": 0.0,
"Discount": 0.0,
"DiscountFiveYear": 0.0,
"UnitPriceDiscountThirdStep": 0.0,
"UnitPriceSecondStep": 0.0,
"OriginalPrice": 0.0,
"DiscountThreeYear": 0.0,
"UnitPriceDiscountSecondStep": 0.0,
"UnitPriceDiscount": 0.0,
"DiscountPriceFiveYear": 0.0,
"OriginalPriceOneYear": 0.0,
"ChargeUnit": "HOUR",
"DiscountPriceThreeYear": 0.0,
"DiscountPriceOneYear": 0.0
}
},
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
}
```


5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
InternalError.TradeUnknownError	Internal error.
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.SnapshotIdMalformed	Invalid snapshot ID. Provide a snapshot ID in the format of snap-xxxxxxxx, where the letter x refers to lowercase letter or number.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
MissingParameter	Missing parameter.
MissingParameter.AtLeastOne	Parameter missing. Provide at least one parameter.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
UnsupportedOperation.InstanceStateCorrupted	The instances are permanently corrupted, and this operation is not supported.
UnsupportedOperation.InstanceStateStopped	The instance has been shut down, and this operation is not supported.

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UnsupportedOperation.InvalidDisk	The specified disk is not supported.
UnsupportedOperation.LocalDiskMigratingToCloudDisk	The specified disk is converting to a cloud disk. Try again later.

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RunInstances

Last updated：2024-01-04 16:11:06

1. API Description

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

This API is used to create one or more instances with a specified configuration.

- After an instance is created successfully, it will start up automatically, and the instance status will become "Running".
- If you create a pay-as-you-go instance billed on an hourly basis, an amount equivalent to the hourly rate will be frozen. Make sure your account balance is sufficient before calling this API.
- The number of instances you can purchase through this API is subject to the Quota for CVM Instances. Instances created through this API and in the CVM console are counted toward the quota.
- This API is an async API. An instance ID list is returned after the creation request is sent. However, it does not mean the creation has been completed. The status of the instance will be `Creating` during the creation. You can use DescribeInstances to query the status of the instance. If the status changes from `Creating` to `Running`, it means that the instance has been created successfully.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: RunInstances.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.

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Region	No	String	Common Params. This parameter is not required for this API.
InstanceChargeType	No	String	Instance billing type. • `POSTPAID_BY_HOUR` : Hourly-based pay-as-you-go • `CDHPAID` : Dedicated CVM (associated with a dedicated host. Resource usage of the dedicated host is free of charge.) • `SPOTPAID` : Spot instance Default value: `POSTPAID_BY_HOUR` .
InstanceChargePrepaid	No	InstanceChargePrepaid	Details of the monthly subscription, including the purchase period, auto-renewal. It is required if the `InstanceChargeType` is `PREPAID` .
Placement	No	Placement	Location of the instance. You can use this parameter to specify the availability zone, project, and CDH (for dedicated CVMs). **Note: `Placement` is required when `LaunchTemplate` is not specified. If both the parameters are passed in, `Placement` prevails.**
InstanceType	No	String	The instance model. • To view specific values for `POSTPAID_BY_HOUR` instances, you can call DescribeInstanceTypeConfigs or refer to Instance Types. If this parameter is not specified, `S1.SMALL1` will be used by default. • For `CDHPAID` instances, the value of this parameter is in

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			the format of `CDH_XCXG` based on the number of CPU cores and memory capacity. For example, if you want to create a CDH instance with a single-core CPU and 1 GB memory, specify this parameter as `CDH_1C1G` .
ImageId	No	String	The image ID in the format of `img-xxx` . There are three types of images: • Public images • Custom images • Shared images To check the image ID: • For public images, custom images, and shared images, go to the CVM console. • Call DescribeImages, pass in `InstanceType` to retrieve the list of images supported by the current model, and then find the `ImageId` in the response. **Note: `ImageId` is required when `LaunchTemplate` is not specified. If both the parameters are passed in, `ImageId` prevails.**
SystemDisk	No	SystemDisk	System disk configuration of the instance. If this parameter is not specified, the default value will b used.
DataDisks.N	No	Array of DataDisk	The configuration information of instance data disks. If this parameter is not specified, no data disk will be purchased by default. When purchasing, you can specify 21 data disks, which can contain at most 1 LOCAL_BASIC or LOCAL_SSD data disk, and at most 20 CLOUD_BASIC,

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			CLOUD_PREMIUM, or CLOUD_SSD data disks.
VirtualPrivateCloud	No	VirtualPrivateCloud	Configuration information of VPC This parameter is used to specify VPC ID and subnet ID, etc. If a VPC IP is specified in this parameter, it indicates the primary ENI IP of each instance. The value of parameter InstanceCount must be the same as the number of VPC IPs, which cannot be greater than 20.
InternetAccessible	No	InternetAccessible	Configuration of public network bandwidth. If this parameter is not specified, 0 Mbps will be used by default.
InstanceCount	No	Integer	The number of instances to be purchased. Value range for pay-as-you-go instances: [1, 100]. Default value: `1` . The specified number of instances to be purchased cannot exceed the remaining quota allowed for the user. For more information on the quota, see Quota for CVM Instances.
InstanceName	No	String	Instance name to be displayed. • If this parameter is not specified, "Unnamed" will be displayed by default. • If you purchase multiple instances at the same time and specify a pattern string `{R:x}` , numbers `[x, x+n-1]` will be generated, where `n` represents the number of instances purchased. For example, you specify a pattern string, `server_{R:3}` . If you only purchase 1 instance, the instance will be named `server_3` ; if you purchase 2

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			they will be named `server_3` and `server_4`. You can specify multiple pattern strings in the format of `{R:x}`. • If you purchase multiple instances at the same time and do not specify a pattern string, the instance names will be suffixed by `1, 2...n`, where `n` represents the number of instances purchased. For example, if you purchase 2 instances and the instance name body is `server_`, the instance names will be `server_1` and `server_2` • This parameter can contain up to 60 characters, including the pattern string.
LoginSettings	No	LoginSettings	Instance login settings. You can use this parameter to set the login method, password and key of the instance, or keep the original login settings of the image. If it's not specified, the user needs to set the login password using the "Reset password" option in the CVM console or calling the API `ResetInstancesPassword` to complete the creation of the CVM instance(s).
SecurityGroupIds.N	No	Array of String	Security groups to which the instance belongs. To obtain the security group IDs, you can call DescribeSecurityGroups and look for the `sgId` fields in the response. If this parameter is not specified, the instance will be associated with default security groups.
EnhancedService	No	EnhancedService	Enhanced service. You can use

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			this parameter to specify whethe to enable services such as Anti-DDoS and Cloud Monitor. If this parameter is not specified, Clouc Monitor and Anti-DDoS are enabled for public images by default. However, for custom images and images from the marketplace, Anti-DDoS and Cloud Monitor are not enabled by default. The original services in the image will be retained.
ClientToken	No	String	A unique string supplied by the client to ensure that the request is idempotent. Its maximum length is 64 ASCII characters. If this parameter is not specified, the idem-potency of the request cannot be guaranteed.
HostName	No	String	Instance hostname. • Dots (.) and dashes (-) can not be used as the first or last character of HostName nor used consecutively. <br • Windows instances: 2 to 15 characters, including English letters (case-insensitive), numbers and dashes (-). Dots and numeric-only names are not allowed. • Other instances (Linux, etc.): 2 to 60 characters, including English letters (case-insensitive) numbers, dashes (-) and dots. Note that consecutive dots are not allowed. • Batch naming: use `{R:x}` for batch naming if multiple instances are purchased. `x` is the serial number of the instance It's generated by [x, x+n-1], where `n` refers to the number of instances purchased. For example, if `server{R:3}` is

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			input, if you purchase one instance, the hostname is `server3` . If you purchase two instances, the hostnames are `server3` and `server4` respectively. You can specify multiple pattern strings `{R:x}` . • Purchasing multiple instances: If no pattern string is specified, you shall add suffixes `1, 2...n` to the instance hostname. `n` represents the number of purchased instances. For example, if the instance hostname is `server` , when two instances are purchased, the hostnames of instances purchased are respectively `server1` and `server2` .
ActionTimer	No	ActionTimer	Scheduled tasks. You can use this parameter to specify scheduled tasks for the instance Only scheduled termination is supported.
DisasterRecoverGroupIds.N	No	Array of String	Placement group ID. You can only specify one.
TagSpecification.N	No	Array of TagSpecification	List of tag description. By specifying this parameter, the tag can be bound to the corresponding CVM and CBS instances at the same time.
InstanceMarketOptions	No	InstanceMarketOptionsRequest	The market options of the instance.
UserData	No	String	User data provided to the instance. This parameter needs to be encoded in base64 format with the maximum size of 16 KB. For more information on how to get the value of this parameter,

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			see the commands you need to execute on startup for Windows or Linux.
DryRun	No	Boolean	Whether the request is a dry run only. `true` : dry run only. The request will not create instance(s). A dry run can check whether all the required parameters are specified, whether the request format is right, whether the request exceeds service limits, and whether the specified CVMs are available. If the dry run fails, the corresponding error code will be returned. If the dry run succeeds, the RequestId will be returned. `false` (default value): Send a normal request and create instance(s) if all the requirements are met.
CamRoleName	No	String	CAM role name, which can be obtained from the `roleName` field in the response of the `DescribeRoleList` API.
HpcClusterId	No	String	HPC cluster ID. The HPC cluster must and can only be specified for a high-performance computing instance.
LaunchTemplate	No	LaunchTemplate	Instance launch template.
DedicatedClusterId	No	String	Specify the ID of the dedicated cluster where the CVM is created.
ChcIds.N	No	Array of String	Specify the CHC physical server that used to create the CHC CVM.

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DisableApiTermination	No	Boolean	Whether the termination protection is enabled. Values: • `TRUE` : Enable instance protection, which means that this instance can not be deleted by an API action. • `FALSE` : Do not enable the instance protection. Default value: `FALSE` .

3. Output Parameters

Parameter Name	Type	Description
InstanceIdSet	Array of String	If you use this API to create instance(s), this parameter will be returned, representing one or more instance IDs. Retuning the instance ID list does not necessarily mean that the instance(s) were created successfully. To check whether the instance(s) were created successfully, you can call DescribeInstances and check the status of the instances in `InstancesSet` in the response. If the status of an instance changes from "PENDING" to "RUNNING", it means that the instance has been created successfully.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Purchasing an instance with only the required parameters

This example shows you how to purchase an instance in Shanghai Zone 2 with the image `img-pmqg1cw7` . Only the required `Placement.Zone` and `ImageId` parameters are passed in. The other parameters use system default values.

Input Example

```
POST / HTTP/1.1
Host: cvm.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: RunInstances
```

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```
<Common request parameters>

{
"Placement": {
"Zone": "ap-shanghai-2"
},
"ImageId": "img-pmqg1cw7"
}
```

Output Example

```
{
"Response": {
"InstanceIdSet": [
"ins-1vogaxgk"
],
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
}
```

Example2 Purchasing a monthly subscribed instance

This example shows you how to purchase one 64C256G standard (S5.16XLARGE256) instance in Shanghai Zone 2 using the image `img-pmqg1cw7` . The other configurations are as follows: billing method: monthly subscription for one month, with the auto-renewal enabled; system disk: 50 GB Premium Cloud Storage; data disk: 100 GB Premium Cloud Storage; network type: VPC; public network billing: pay-as-you-go by traffic on an hourly basis; public network bandwidth cap: 10 Mbps; public IP: randomly assigned; instance name: QCLOUD-TEST; login password: Qcloud@TestApi123++; Cloud Monitor service: enabled; Anti-DDoS: enabled.

Input Example

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

{
"SystemDisk": {
"DiskSize": "50",
"DiskType": "CLOUD_PREMIUM"
},
"InstanceCount": "1",
"Placement": {
```

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```
"Zone": "ap-shanghai-2"
},
"LoginSettings": {
"Password": "Qcloud@TestApi123++"
},
"ImageId": "img-pmqg1cw7",
"InstanceChargeType": "PREPAID",
"EnhancedService": {
"SecurityService": {
"Enabled": "TRUE"
},
"MonitorService": {
"Enabled": "TRUE"
}
},
"InternetAccessible": {
"PublicIpAssigned": "TRUE",
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": "10"
},
"InstanceChargePrepaid": {
"RenewFlag": "NOTIFY_AND_AUTO_RENEW",
"Period": "1"
},
"InstanceName": "QCLOUD-TEST",
"InstanceType": "S5.16XLARGE256",
"DataDisks": [
{
"DiskSize": "100",
"DiskType": "CLOUD_PREMIUM"
}
]
}
```

Output Example

```
{
"Response": {
"InstanceIdSet": [
"ins-bfw5zq3y"
],
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
}
```

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Example3 Purchasing an hourly-billed pay-as-you-go instance

This example shows you how to purchase one 64C256G standard (S5.16XLARGE256) instance in Shanghai Zone 2 using the image `img-pmqg1cw7` . The other configurations are as follows: billing mode: pay-as-you-go on an hourly basis; system disk: 50 GB Premium Cloud Storage; data disk: 100 GB Premium Cloud Storage; network type: VPC; public network billing: pay-as-you-go by traffic on an hourly basis; public network bandwidth cap: 10 Mbps; public IP: randomly assigned; instance name: QCLOUD-TEST; login password: Qcloud@TestApi123++; Cloud Monitor service: enabled; Anti-DDoS: enabled.

Input Example

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

{
"SystemDisk": {
"DiskSize": "50",
"DiskType": "CLOUD_PREMIUM"
},
"InstanceCount": "1",
"Placement": {
"Zone": "ap-shanghai-2"
},
"LoginSettings": {
"Password": "Qcloud@TestApi123++"
},
"ImageId": "img-pmqg1cw7",
"InstanceChargeType": "POSTPAID_BY_HOUR",
"EnhancedService": {
"SecurityService": {
"Enabled": "TRUE"
},
"MonitorService": {
"Enabled": "TRUE"
}
},
"InternetAccessible": {
"PublicIpAssigned": "TRUE",
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": "10"
},
"InstanceName": "QCLOUD-TEST",
"InstanceType": "S5.16XLARGE256",
```

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```
"DataDisks": [
{
"DiskSize": "100",
"DiskType": "CLOUD_PREMIUM"
}
]
}
```

Output Example

```
{
"Response": {
"InstanceIdSet": [
"ins-32kcaqoa"
],
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
}
```

Example4 Purchasing a CDH instance

This example shows you how to purchase one instance with the following configurations. Availability zone: Shanghai Zone 2; CDH: host-q88gab4i; image ID: img-pmqg1cw7; billing method: billed together with the CDH; model: 1C1G; system disk: 50 GB Premium Cloud Storage; data disk: 100 GB Premium Cloud Storage; network type: VPC; public network billing: pay-as-you-go by traffic on an hourly basis; public network bandwidth cap: 10 Mbps; public IP: randomly assigned; instance name: QCLOUD-TEST; login password: Qcloud@TestApi123++; Cloud Monitor service: enabled; Anti-DDoS: enabled.

Input Example

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

{
"SystemDisk": {
"DiskSize": "50",
"DiskType": "CLOUD_PREMIUM"
},
"InstanceCount": "1",
"Placement": {
"HostIds": [
```

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```
"host-q88gab4i"
],
"Zone": "ap-shanghai-2"
},
"LoginSettings": {
"Password": "Qcloud@TestApi123++"
},
"ImageId": "img-pmqg1cw7",
"InstanceChargeType": "CDHPAID",
"EnhancedService": {
"SecurityService": {
"Enabled": "TRUE"
},
"MonitorService": {
"Enabled": "TRUE"
}
},
"InternetAccessible": {
"PublicIpAssigned": "TRUE",
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": "10"
},
"InstanceName": "QCLOUD-TEST",
"InstanceType": "CDH_1C1G",
"DataDisks": [
{
"DiskSize": "100",
"DiskType": "CLOUD_PREMIUM"
}
]
}
```

Output Example

```
{
"Response": {
"InstanceIdSet": [
"ins-0s7wsh5x"
],
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
}
```

Example5 Creating an instance with the VPC IP address specified

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This example shows you how to purchase two instances with the following configurations. Availability zone: Shanghai Zone 2; billing method: pay-as-you-go on an hourly basis; image ID: img-dkwyg6sr; model: 64C256G standard (S5.16XLARGE256); system disk: 50 GB Premium Cloud Storage; network: VPC; VPC ID: 1urkhbj4; subnet ID: dcs9x3gz; VPC IP address: 10.0.0.18 and 10.0.0.19.

Input Example

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

{
"VirtualPrivateCloud": {
"SubnetId": "subnet-dcs9x3gz",
"VpcId": "vpc-1urkhbj4",
"PrivateIpAddresses": [
"10.0.0.19",
"10.0.0.18"
]
},
"InstanceCount": "2",
"Placement": {
"Zone": "ap-shanghai-2"
},
"SystemDisk": {
"DiskSize": "50",
"DiskType": "CLOUD_PREMIUM"
},
"ImageId": "img-dkwyg6sr",
"InstanceType": "S5.16XLARGE256"
}
```

Output Example

```
{
"Response": {
"InstanceIdSet": [
"ins-0s7wsh5x",
"ins-031w8hok"
],
"RequestId": "3c14def19-cfes-470e-b241-90787u6jf5uj"
}
}
```

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5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
AuthFailure.CamRoleNameAuthenticateFailed	Role name authentication failed.
FailedOperation.DisasterRecoverGroupNotFound	The specified spread placement group does not exist.
FailedOperation.IllegalTagKey	The tag key contains invalid characters.
FailedOperation.IllegalTagValue	The tag value contains invalid characters.
FailedOperation.InquiryPriceFailed	Price query failed.

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FailedOperation.NoAvailableIpAddressCountInSubnet	No available IPs in the subnet.
FailedOperation.PromotionalRegionRestriction	The service is not available in this country/region.
FailedOperation.SecurityGroupActionFailed	Security group operation failed.
FailedOperation.SnapshotSizeLargerThanDataSize	The snapshot size is larger than the disk capacity. You need a larger disk space.
FailedOperation.SnapshotSizeLessThanDataSize	The snapshot size should be larger than the cloud disk capacity.
FailedOperation.TagKeyReserved	The tag key specified in the request is reserved for the system.
InstancesQuotaLimitExceeded	You are trying to create more instances than your remaining quota allows.
InternalError.TradeUnknownError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidClientToken.TooLong	The specified ClientToken exceeds the maximum length of 64 bytes.
InvalidHostId.Malformed	Invalid CDH `ID`. The specified CDH `ID` has an invalid format. For example, `host-1122` has an invalid `ID` length.
InvalidHostId.NotFound	The specified HostId does not exist, or does not belong to your account.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceName.TooLong	The specified InstanceName exceeds the maximum length of

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	60 bytes.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID has an invalid format. For example, `skey-1122` has an invalid `ID` length.
InvalidParameter.CdcNotSupported	
InvalidParameter.HostIdStatusNotSupport	This operation is not supported under the current status of the CVM.
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameter.InternetAccessibleNotSupported	Unable to set the public network bandwidth.
InvalidParameter.InvalidIpFormat	Invalid VPC IP address format.
InvalidParameter.LackCoreCountOrThreadPerCore	`CoreCount` and `ThreadPerCore` must be specified at the same time.
InvalidParameter.ParameterConflict	Specifying an SSH key will override the original one of the image.
InvalidParameter.SnapshotNotFound	The specified snapshot does not exist.
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.BandwidthPackageIdMalformed	The shared bandwidth package ID is invalid. Please provide a standard shared bandwidth package ID in the format similar to bwp-xxxxxxxx. In this format, the letter x stands for a lowercase character or a number.

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InvalidParameterValue.BandwidthPackageIdNotFound	The specified bandwidth package does not exist.
InvalidParameterValue.CamRoleNameMalformed	Invalid `CamRoleName` . This parameter must contain only letters, numbers and symbols (`+` , `=` , `,` , `.` , `@` , `_` , `-`).
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found.
InvalidParameterValue.CloudSsdDataDiskSizeTooSmall	The minimum capacity of a SSD data disk is 100 GB.
InvalidParameterValue.CoreCountValue	Invalid number of cores.
InvalidParameterValue.DedicatedClusterNotSupportedChargeType	
InvalidParameterValue.Duplicate	Duplicate parameter value.
InvalidParameterValue.DuplicateTags	Duplicate tags.
InvalidParameterValue.HpcClusterIdZoneIdNotMatch	
InvalidParameterValue.IPAddressMalformed	Invalid IP format
InvalidParameterValue.IllegalHostName	The value of HostName is invalid.
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.
InvalidParameterValue.InstanceTypeNotFound	The specified instance type does not exist.
InvalidParameterValue.InstanceTypeNotSupportHpcCluster	This type of instances cannot be added to the HPC cluster.
InvalidParameterValue.InstanceTypeRequiredHpcCluster	The HPC cluster needs to be specified for the high-performance computing instance.
InvalidParameterValue.InsufficientOffering	The spot instances are out of stock.
InvalidParameterValue.InsufficientPrice	The bid is lower than the market price.

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InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidImageForGivenInstanceType	The specified image does not support the specified instance type.
InvalidParameterValue.InvalidImageFormat	A RAW image cannot be used to create a CVM. Choose another image.
InvalidParameterValue.InvalidImageId	The image does not support this operation.
InvalidParameterValue.InvalidImageOsName	The operating system of the specified image is not available in the current region.
InvalidParameterValue.InvalidImageState	The image has another ongoing task. Please check and try again later.
InvalidParameterValue.InvalidIpFormat	Invalid IP address.
InvalidParameterValue.InvalidPassword	Invalid password. The specified password does not meet the complexity requirements (e.g., too long or too short)
InvalidParameterValue.InvalidTimeFormat	Incorrect time format.
InvalidParameterValue.InvalidUserDataFormat	Incorrect UserData format. Use the Base64-encoded format.
InvalidParameterValue.KeyPairNotFound	The key does not exist.
InvalidParameterValue.LaunchTemplateIdMalformed	Incorrect format of instance launch template ID.
InvalidParameterValue.LaunchTemplateIdNotExisted	The instance launch template ID does not exist.
InvalidParameterValue.LaunchTemplateNotFound	The instance launch template is not found.
InvalidParameterValue.LaunchTemplateVersion	Invalid instance launch template version number.
InvalidParameterValue.LimitExceeded	The number of parameter values

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	exceeds the limit.
InvalidParameterValue.MustDhcpEnabledVpc	The parameter value must be a DHCP-enabled VPC.
InvalidParameterValue.NotCdcSubnet	The subnet is not in the CDC cluster.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
InvalidParameterValue.SnapshotIdMalformed	Invalid snapshot ID. Provide a snapshot ID in the format of snap-xxxxxxxx, where the letter x refers to lowercase letter or number.
InvalidParameterValue.SubnetIdMalformed	Invalid subnet ID. Please provide a subnet ID in the format of subnet-xxxxxxxx, where “x” can be a lowercase letter or number.
InvalidParameterValue.SubnetNotExist	Creation failed: the subnet does not exist. Please specify another subnet.
InvalidParameterValue.TagKeyNotFound	The specified tag does not exist
InvalidParameterValue.TagQuotaLimitExceeded	Tag quota limit exceeded.
InvalidParameterValue.ThreadPerCoreValue	Invalid thread count per core.
InvalidParameterValue.TooLarge	The parameter value exceeds the maximum limit.
InvalidParameterValue.VpcIdMalformed	The VPC ID `xxx` is invalid. Please provide a VPC ID in the format of vpc-xxxxxxxx, where “x” can be a lowercase letter or number.
InvalidParameterValue.VpcIdNotExist	The specified VpcId doesn't exist.
InvalidParameterValue.VpcIdZoneIdNotMatch	The VPC and instance must be in the same availability zone.
InvalidParameterValue.VpcNotSupportIpv6Address	This VPC does not support the IPv6 addresses.

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InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
InvalidPassword	Invalid password. The specified password does not meet the password requirements. For example, the password length does not meet the requirements.
InvalidPeriod	Invalid period. Valid values: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]; unit: month.
InvalidPermission	This operation is not supported for the account.
InvalidProjectId.NotFound	Invalid project ID: the specified project ID does not exist.
InvalidSecurityGroupId.NotFound	The specified `security group ID` does not exist.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
LimitExceeded.CvmsVifsPerSecGroupLimitExceeded	The CVM ENIs associated with the security group has exceeded the limit.
LimitExceeded.DisasterRecoverGroup	The quota of the specified placement group is insufficient.
LimitExceeded.IPv6AddressNum	Number of IPs on this ENI reached the upper limit.
LimitExceeded.InstanceEniNumLimit	Reached the upper limit of the ENIs for the instance.
LimitExceeded.InstanceQuota	You are short of the instance quota.
LimitExceeded.PrepayQuota	Your quota for monthly-subscribed instances is used up. Increase your quota and try again.
LimitExceeded.PrepayUnderwriteQuota	
LimitExceeded.SingleUSGQuota	The number of security groups

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	exceeds the quota limit.
LimitExceeded.SpotQuota	The spot instance offerings are out of stock.
LimitExceeded.UserSpotQuota	You are short of the spot instance quota.
LimitExceeded.VpcSubnetNum	Insufficient subnet IPs.
MissingParameter	Missing parameter.
MissingParameter.DPDKInstanceTypeRequiredVPC	The DPDK instance requires a VPC.
MissingParameter.MonitorService	The instance type must have Cloud Monitor enabled.
OperationDenied.AccountNotSupported	
OperationDenied.ChcInstallCloudImageWithoutDeployNetwork	A CHC instance without network configured is not allowed for the installation of a cloud image
ResourceInsufficient.AvailabilityZoneSoldOut	The availability zone has been sold out.
ResourceInsufficient.CidrBlock	
ResourceInsufficient.CloudDiskSoldOut	The specified cloud disk has been sold out.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
ResourceInsufficient.DisasterRecoverGroupCvmQuota	The number of instances exceeded the quota limit of spread placement groups.
ResourceInsufficient.SpecifiedInstanceType	The specified instance type is insufficient.
ResourceNotFound.HpcCluster	The HPC cluster does not exist.
ResourceNotFound.KeyPairNotFound	
ResourceNotFound.NoDefaultCbs	No default CBS resources are available.

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ResourceNotFound.NoDefaultCbsWithReason	No default CBS resources are available.
ResourceUnavailable.InstanceType	This instance type is unavailable in the availability zone.
ResourcesSoldOut.EipInsufficient	The public IP has been sold out.
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.
UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BandwidthPackageIdNotSupported	The specified instance or network cannot use the bandwidth package.
UnsupportedOperation.HibernationOsVersion	
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InvalidDisk	The specified disk is not supported.
UnsupportedOperation.InvalidRegionDiskEncrypt	Encrypted disks are not available in the selected regions.
UnsupportedOperation.KeyPairUnsupportedWindows	Key-pair login is not available to Windows instances.
UnsupportedOperation.NoInstanceTypeSupportSpot	This instance type does not support spot instances.
UnsupportedOperation.NotSupportImportInstancesActionTimer	Failed to configure the scheduled action for the current instance.
UnsupportedOperation.OnlyForPrepaidAccount	Only a prepaid account supports this operation.
UnsupportedOperation.RawLocalDiskInsReinstalltoQcow2	This image does not support instance reinstallation.
UnsupportedOperation.SpotUnsupportedRegion	Spot instance is not supported in this region.
UnsupportedOperation.UnderwritingInstanceTypeOnlySupportAutoRenew	For an underwriting instance,

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	`RenewFlag` can only be set to `NOTIFY_AND_AUTO_RENEW` .
UnsupportedOperation.UnsupportedInternationalUser	This operation is not available for Tencent Cloud International users.
VpcAddrNotInSubNet	The VPC IP address is not in the subnet.
VpcIpIsUsed	The VPC IP address is already occupied.

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StartInstances

Last updated：2024-01-04 16:11:05

1. API Description

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

This API is used to start instances.

- You can only perform this operation on instances whose status is `STOPPED` .
- The instance status will become `STARTING` when the API is called successfully and `RUNNING` when the instance is successfully started.
- Batch operations are supported. The maximum number of instances in each request is 100.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: StartInstances.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID(s). To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response. The maximum number of instances in each request is 100.

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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 Starting up instances with the specified IDs

This example shows you how to start up two shutdown instances at once.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=StartInstances
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnsupportedOperation.InstanceReinstallFailed	

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UnsupportedOperation.InstanceStateCorrupted	The instances are permanently corrupted, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateRunning	Running instances do not support this operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopped	The instance has been shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminated	Terminated instances are not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.

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RebootInstances

Last updated：2024-01-04 16:11:08

1. API Description

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

This API is used to restart instances.

- You can only perform this operation on instances whose status is `RUNNING` .
- If the API is called successfully, the instance status will become `REBOOTING` . After the instance is restarted, its status will become `RUNNING` again.
- Forced restart is supported. A forced restart is similar to switching off the power of a physical computer and starting it again. It may cause data loss or file system corruption. Be sure to only force start a CVM when it cannot be restarted normally.
- Batch operations are supported. The maximum number of instances in each request is 100.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: RebootInstances.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance IDs. To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the

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			response. You can operate up to 100 instances in each request.
ForceReboot	No	Boolean	Whether to forcibly restart an instance after a normal restart fails. Valid values: • `TRUE` : yes; • `FALSE` : no Default value: `FALSE` . This parameter has been disused. We recommend using `StopType` instead. Note that `ForceReboot` and `StopType` parameters cannot be specified at the same time.
StopType	No	String	Shutdown type. Valid values: • SOFT: soft shutdown • HARD: hard shutdown • SOFT_FIRST: perform a soft shutdown first, and perform a hard shutdown if the soft shutdown fails Default value: SOFT.

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 Restarting instances

This example shows you how to restart two instances.

Input Example

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

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```
{
"StopType": "SOFT",
"InstanceIds": [
"ins-5d8a23rs",
"ins-r8hr2upy"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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Error Code	Description
FailedOperation.InvalidInstanceApplicationRole	
InternalServerError	Internal error.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateCorrupted	The instances are permanently corrupted, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the

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	`ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopped	The instance has been shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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StopInstances

Last updated：2024-01-04 16:11:05

1. API Description

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

This API is used to shut down instances.

- You can only perform this operation on instances whose status is `RUNNING` .
- The instance status will become `STOPPING` when the API is called successfully and `STOPPED` when the instance is successfully shut down.
- Forced shutdown is supported. A forced shutdown is similar to switching off the power of a physical computer. It may cause data loss or file system corruption. Be sure to only force shut down a CVM when it cannot be sht down normally.
- Batch operations are supported. The maximum number of instances in each request is 100.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: StopInstances.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID(s). To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the

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			response. The maximum number of instances in each request is 100.
ForceStop	No	Boolean	(Disused. Please use `StopType` instead.) Whether to forcibly shut down an instance after a normal shutdown fails. Valid values: • `TRUE` : yes; • `FALSE` : no Default value: `FALSE` .
StopType	No	String	Instance shutdown mode. Valid values: • SOFT_FIRST: perform a soft shutdown first, and force shut down the instance if the soft shutdown fails • HARD: force shut down the instance directly • SOFT: soft shutdown only Default value: SOFT.
StoppedMode	No	String	Billing method of a pay-as-you-go instance after shutdown. Valid values: • KEEP_CHARGING: billing continues after shutdown • STOP_CHARGING: billing stops after shutdown Default value: KEEP_CHARGING. This parameter is only valid for some pay-as-you-go instances using cloud disks. For more information, see No charges when shut down for pay-as-you-go instances.

3. Output Parameters

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

4. Example

Example1 Shutting down instances

This example shows you how to shut down two instances.

Input Example

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```
GET https://cvm.tencentcloudapi.com/?Action=StopInstances
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&ForceStop=FALSE
&<Common request parameters>
```

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.

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description

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InternalServerError	Internal error.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation.HibernationForNormalInstance	Instances with hibernation disabled are not supported.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateBanning	This CVM is blocked. Please submit a ticket.
UnsupportedOperation.InstanceStateCorrupted	The instances are permanently corrupted, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.

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UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopped	The instance has been shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminated	Terminated instances are not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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ResetInstance

Last updated：2024-01-04 16:11:07

1. API Description

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

This API is used to reinstall the operating system of the specified instance.

- If you specify an `ImageId`, the specified image is used. Otherwise, the image used by the current instance is used.
- The system disk will be formatted and reset. Therefore, make sure that no important files are stored on the system disk.
- If the operating system switches between `Linux` and `Windows`, the system disk `ID` of the instance will change, and the snapshots that are associated with the system disk can no longer be used to roll back and restore data.
- If no password is specified, you will get a random password via internal message.
- You can only use this API to switch the operating system between `Linux` and `Windows` for instances whose system disk type is `CLOUD_BASIC`, `CLOUD_PREMIUM`, or `CLOUD_SSD`.
- Currently, this API only supports instances in Mainland China regions.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResetInstance.

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Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID. To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response.
ImageId	No	String	Specified effective image ID in the format of `img-xxx`. There are four types of images: • Public images • Custom images • Shared images • Marketplace images You can obtain the available image IDs in the following ways: • for IDs of `public images`, `custom images`, and `shared images`, log in to the CVM console; for IDs of `marketplace images`, go to Cloud Marketplace. • Call the API DescribeImages and look for `ImageId` in the response. Default value: current image.
SystemDisk	No	SystemDisk	Configurations of the system disk. For an instance whose system disk is a cloud disk, this parameter can be used to expand the system disk by specifying a new capacity after reinstallation. The system disk capacity can only be expanded but not shrunk. Reinstalling the system can only resize rather than changing the type of the system disk.
LoginSettings	No	LoginSettings	Login settings of the instance. You can use this parameter to set the login method, password, and key of the instance or keep the login settings of the original image. By default, a random password will be generated and sent to you via the Message Center.
EnhancedService	No	EnhancedService	Enhanced services. You can use this parameter to specify whether to enable services such as Cloud Monitor and Cloud Security. If this parameter is not

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			specified, Cloud Monitor and Cloud Security will be enabled by default.
HostName	No	String	Host name of the CVM, editable during the system reinstallation. • Periods (.) or hyphens (-) cannot be the start or end of a host name or appear consecutively in a host name. • For Windows instances, the host name must consist of 2-15 characters , including uppercase and lowercase letters, numbers, or hyphens (-). It cannot contain periods (.) or contain only numbers. • For other instances, such as Linux instances, the host name must consist of 2-60 characters, including multiple periods (.), and allows uppercase and lowercase letters, numbers, or hyphens (-) between any two periods (.).
UserData	No	String	User data provided to the instance. This parameter needs to be encoded in base64 format with the maximum size of 16 KB. For more information on how to get the value of this parameter, see the commands you need to execute on startup for Windows or Linux.

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 Reinstalling an instance

This example shows you how to reinstall an instance using the specified image, login password, and enhanced services, and expand the system disk of the instance.

Input Example

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

{
"InstanceId": "ins-r8hr2upy",
"SystemDisk": {
"DiskSize": "60"
},
"EnhancedService": {
"SecurityService": {
"Enabled": "TRUE"
},
"MonitorService": {
"Enabled": "TRUE"
}
},
"LoginSettings": {
"Password": "Qcloud@TestApi123++"
},
"ImageId": "img-pmqg1cw7"
}
```

Output Example

```
{
"Response": {
"RequestId": "a0a66377-b79f-4a21-846c-d997d6022968"
}
}
```

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InvalidInstanceApplicationRoleEmr	The EMR instance `ins-xxxxxxxx` does not support this operation.
InternalError.TradeUnknownError	Internal error.
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID has an invalid format. For example, `skey-1122` has an invalid `ID` length.

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InvalidParameter.HostNameIllegal	The specified HostName is invalid.
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameter.ParameterConflict	Specifying an SSH key will override the original one of the image.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.IllegalHostName	The value of HostName is invalid.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InstanceTypeNotFound	The specified instance type does not exist.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidImageForGivenInstanceType	The specified image does not support the specified instance type.
InvalidParameterValue.InvalidImageFormat	A RAW image cannot be used to create a CVM. Choose another image.
InvalidParameterValue.InvalidImageId	The image does not support this operation.
InvalidParameterValue.InvalidImageIdForRetsetInstance	The image cannot be used to reinstall the current instance.
InvalidParameterValue.InvalidImageState	The image has another ongoing task. Please check and try again later.
InvalidParameterValue.InvalidPassword	Invalid password. The specified password does not meet the complexity requirements (e.g., too long or too short)
InvalidParameterValue.InvalidUserDataFormat	Incorrect UserData format. Use the Base64-encoded format.
InvalidParameterValue.KeyPairNotFound	The key does not exist.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.RequiredLocationImage	
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this

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	operation.
MissingParameter	Missing parameter.
MissingParameter.MonitorService	The instance type must have Cloud Monitor enabled.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.ChcInstallCloudImageWithoutDeployNetwork	A CHC instance without network configured is not allowed for the installation of a cloud image
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
ResourceInUse	The resource is in use.
ResourceInsufficient.CloudDiskSoldOut	The specified cloud disk has been sold out.
ResourceNotFound.KeyPairNotFound	
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.
UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InstanceChargeType	This instance billing mode does not support the operation.
UnsupportedOperation.InstanceStateCorrupted	The instances are permanently corrupted, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.

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UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminated	Terminated instances are not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.InvalidImageLicenseTypeForReset	The image license type does not match the instance. Select another image.
UnsupportedOperation.KeyPairUnsupportedWindows	Key-pair login is not available to Windows instances.
UnsupportedOperation.ModifyEncryptionNotSupported	Encryption attributes of the system disk cannot be modified.
UnsupportedOperation.RawLocalDiskInsReinstalltoQcow2	This image does not support instance reinstallation.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no**

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	charges when shut down feature.

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TerminateInstances

Last updated：2024-01-04 16:11:05

1. API Description

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

This API is used to return instances.

- Use this API to return instances that are no longer required.
- Pay-as-you-go instances can be returned directly through this API.
- When this API is called for the first time, the instance will be moved to the recycle bin. When this API is called for the second time, the instance will be terminated and cannot be recovered.
- Batch operations are supported. The allowed maximum number of instances in each request is 100.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: TerminateInstances.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

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Parameter Name	Required	Type	Description
InstanceIds.N	Yes	Array of String	Instance ID(s). To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response. The maximum number of instances in each request is 100.
ReleasePrepaidDataDisks	No	Boolean	Release the monthly subscribed data disks attached to the instance

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 Terminating an instance with the specific ID

This example shows you how to terminate an instance by specifying the ID.

Input Example

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

{
"InstanceIds": [
"ins-3jaw1j8m"
]
}
```

Output Example

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```
{
"Response": {
"RequestId": "9a2f76a2-3b5b-4760-a90b-eff0c611b360"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for 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.InvalidInstanceApplicationRole	
FailedOperation.InvalidInstanceApplicationRoleEmr	The EMR instance `ins-xxxxxxxx` does not support this operation.
FailedOperation.Unreturnable	The instance is unreturnable.
InternalError.TradeUnknownError	Internal error.

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Error Code	Description
InternalServerError	Internal error.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.NotSupported	Unsupported operation.
LimitExceeded.UserReturnQuota	Failed to return instances because of the quota limit.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation	Unsupported operation.

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Error Code	Description
UnsupportedOperation.InstanceChargeType	This instance billing mode does not support the operation.
UnsupportedOperation.InstanceMixedPricingModel	A mixed payment mode is not supported.
UnsupportedOperation.InstanceStateBanning	This CVM is blocked. Please submit a ticket.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStateLaunchFailed	The instance is failed to create, so the operation is not supported.
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminated	Terminated instances are not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.

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Error Code	Description
UnsupportedOperation.InstancesProtected	The instance is under termination protection and cannot be terminated. Disable the termination protection and try again.
UnsupportedOperation.InvalidInstancesOwner	
UnsupportedOperation.RedHatInstanceTerminateUnsupported	An instance with an enterprise operating system installed cannot be returned.
UnsupportedOperation.RedHatInstanceUnsupported	The operating system of the instance is RedHat, so this operation is not supported.
UnsupportedOperation.Region	The region is unsupported.
UnsupportedOperation.SpecialInstanceType	This special instance type does not support the operation.
UnsupportedOperation.UserLimitOperationExceedQuota	The quota of user limit operations is insufficient.

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ResetInstancesType

Last updated：2024-01-04 16:11:07

1. API Description

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

This API is used to change the model of an instance.

- You can only use this API to change the models of instances whose system disk type is `CLOUD_BASIC`, `CLOUD_PREMIUM`, or `CLOUD_SSD`.
- Currently, you cannot use this API to change the models of CDH instances.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResetInstancesType.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID(s). To obtain the instance IDs, you can call the `DescribeInstances` API and find the value `InstanceId` in the response. The maximum number of instances in each request is 1.
InstanceType	Yes	String	Instance model. Different resource specifications are specified for different models. For specific values, call

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			DescribeInstanceTypeConfigs to get the latest specification list or refer to Instance Types.
ForceStop	No	Boolean	Forced shutdown of a running instances. We recommend you firstly try to shut down a running instance manually. Valid values: • TRUE: forced shutdown of an instance after a normal shutdown fails. • FALSE: no forced shutdown of an instance after a normal shutdown fails. Default value: FALSE. A forced shutdown is similar to switching off the power of a physical computer. It may cause data loss or file system corruption. Be sure to only force a CVM to shut off if the normal shutdown fails.

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 instance model

This example shows you how to adjust the configuration of an instance that fails to meet your business needs.

Input Example

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

{
"InstanceType": "S5.16XLARGE256",
"InstanceIds": [
"ins-r8hr2upy"
```

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```
]
}
```

Output Example

```
{
"Response": {
"RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
}
}
```

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InvalidInstanceApplicationRole	
FailedOperation.InvalidInstanceApplicationRoleEmr	The EMR instance `ins-`

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	`xxxxxxxx` does not support this operation.
FailedOperation.PromotionalPerioRestriction	The configuration or billing mode of the CVM instances purchased durin the promotion period cannot be modified.
InternalError.TradeUnknownError	Internal error.
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidHostId.Malformed	Invalid CDH `ID`. The specified CDH `ID` has an invalid format. Fo example, `host-1122` has an invalid `ID` length.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specifiec instance `ID` has an invalid format For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.
InvalidParameter	A parameter error occurred.
InvalidParameter.HostIdStatusNotSupport	This operation is not supported und the current status of the CVM.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.BasicNetworkInstanceFamily	Only VPC is supported. The networl type of the instance is classic network, which cannot be changed.
InvalidParameterValue.GPUInstanceFamily	Non-GPU instances cannot be changed to the GPU instance.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a

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	valid ID, such as ins-xxxxxxxx ("x" represents a lower-case letter or a number).
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidGPUFamilyChange	Converting to a non-GPU or other type of GPU instance is not supported.
InvalidParameterValue.InvalidInstanceSource	The instance configuration is upgraded for free and cannot be downgraded within 3 months.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
InvalidPeriod	Invalid period. Valid values: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]; unit: month.
InvalidPermission	This operation is not supported for the account.
InvalidZone.MismatchRegion	The specified `zone` does not exis
LimitExceeded.EipNumLimit	The number of EIPs of an ENI contained in a specific instance has exceeded the maximum allowed EIP of the target instance type. Please delete some EIPs and try again.
LimitExceeded.EniLimitInstanceType	
LimitExceeded.EniNumLimit	The number of ENIs on a specified instance exceeds the maximum ENI allowed for the target instance type. Delete some ENIs and try again.
LimitExceeded.InstanceTypeBandwidth	Unable to adjust: the target instance type does not support the configured public network bandwidth cap. See Public Network Bandwidth Cap.
LimitExceeded.SpotQuota	The spot instance offerings are out o

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	stock.
MissingParameter	Missing parameter.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
ResourceInsufficient.CloudDiskSoldOut	The specified cloud disk has been sold out.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
ResourceInsufficient.SpecifiedInstanceType	The specified instance type is insufficient.
ResourceNotFound.InvalidZoneInstanceType	This instance type is not supported the AZ.
ResourceUnavailable.InstanceType	This instance type is unavailable in the availability zone.
ResourcesSoldOut.AvailableZone	Resources in this availability zone has been sold out.
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation.DiskSnapCreateTimeTooOld	Only one snapshot can be created in 24 hours.
UnsupportedOperation.HeterogeneousChangeInstanceFamily	You cannot change the model of a heterogeneous instance.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateBanning	This CVM is blocked. Please submit a ticket.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the

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	`EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for th frozen instances.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are no available for this operation.
UnsupportedOperation.InstanceStateRunning	Running instances do not support this operation.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support th operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, an this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, an the operation is not supported.
UnsupportedOperation.InvalidInstanceWithSwapDisk	Instances with swap disks are not supported.
UnsupportedOperation.LocalDataDiskChangeInstanceFamily	A model whose data disks are all local disks does not support cross-model configuration adjustment.
UnsupportedOperation.LocalDiskMigratingToCloudDisk	The specified disk is converting to a cloud disk. Try again later.
UnsupportedOperation.NoInstanceTypeSupportSpot	This instance type does not support spot instances.
UnsupportedOperation.NotSupportUnpaidOrder	
UnsupportedOperation.OriginalInstanceTypeInvalid	The original instance type is invalid.
UnsupportedOperation.RedHatInstanceUnsupported	The operating system of the instanc is RedHat, so this operation is not supported.

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UnsupportedOperation.SpecialInstanceType	This special instance type does not support the operation.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **n charges when shut down** feature
UnsupportedOperation.StoppedModeStopChargingSameFamily	Configuration adjustment of the sam type is not supported for instances with no charges when shut down.
UnsupportedOperation.SystemDiskType	
UnsupportedOperation.UnsupportedARMChangeInstanceFamily	
UnsupportedOperation.UnsupportedChangeInstanceFamily	The specified model does not suppo cross-model configuration adjustment.
UnsupportedOperation.UnsupportedChangeInstanceFamilyToARM	Non-ARM model instances cannot b changed to the ARM model.
UnsupportedOperation.UnsupportedChangeInstanceToThisInstanceFamily	Changing to this model type for this instance is not allowed.

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ResizeInstanceDisks

Last updated：2024-01-04 16:11:06

1. API Description

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

This API (ResizeInstanceDisks) is used to expand the data disks of an instance.

- Currently, you can only use the API to expand non-elastic data disks whose disk type is `CLOUD_BASIC`, `CLOUD_PREMIUM`, or `CLOUD_SSD`. You can use `DescribeDisks` to check whether a disk is elastic. If the `Portable` field in the response is `false`, it means that the disk is non-elastic.
- Currently, this API does not support CDH instances.
- Currently, only one data disk can be expanded at a time.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResizeInstanceDisks.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID. To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response.

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DataDisks.N	No	Array of DataDisk	Configuration of data disks to be expanded. Currently you can only use the API to expand non-elastic data disks whose disk type is `CLOUD_BASIC` , `CLOUD_PREMIUM` , or `CLOUD_SSD` . You can use `DescribeDisks` to check whether a disk is elastic. If the `Portable` field in the response is `false` , it means that the disk is not elastic. Data disk capacity unit: GB; minimum increment: 10 GB. For more information on selecting the data disk type, see the product overview on cloud disks. Available data disk types are subject to the instance type (`InstanceType`). In addition, the maximum capacity allowed for expansion varies by data disk type.
ForceStop	No	Boolean	Whether to force shut down a running instances. It is recommended to manually shut down a running instance before resetting the user password. Valid values: • TRUE: force shut down an instance after a normal shutdown fails. • FALSE: do not force shut down an instance after a normal shutdown fails. Default value: FALSE. A forced shutdown is similar to switching off the power of a physical computer. It may cause data loss or file system corruption. Be sure to only force shut down a CVM when it cannot be shut down normally.
SystemDisk	No	SystemDisk	Configuration of the system disk to be expanded. Only cloud disks are supported.
ResizeOnline	No	Boolean	Whether the cloud disk is expanded online.

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

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Example1 Resetting the disk size of a specific instance

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ResizeInstanceDisks
&InstanceId=ins-r8hr2upy
&DataDisks.0.DiskSize=100
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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Error Code	Description
FailedOperation.InvalidInstanceApplicationRole	
InternalError	Internal error.
InternalError.TradeUnknownError	Internal error.
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CdhOnlyLocalDataDiskResize	
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
MissingParameter	Missing parameter.
MissingParameter.AtLeastOne	Parameter missing. Provide at least one parameter.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnsupportedOperation.InstanceChargeType	This instance billing mode does not support the operation.
UnsupportedOperation.InstanceStateBanning	This CVM is blocked. Please submit a ticket.
UnsupportedOperation.InstanceStateCorrupted	The instances are permanently corrupted, and this operation is not supported.

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UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateRunning	Running instances do not support this operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopped	The instance has been shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.InvalidDataDisk	Adjusting the data disk is not supported.
UnsupportedOperation.SpecialInstanceType	This special instance type does not support the operation.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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ResetInstancesPassword

Last updated：2024-01-04 16:11:07

1. API Description

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

This API is used to reset the password of the operating system instances to a user-specified password.

- To modify the password of the administrator account: the name of the administrator account varies with the operating system. In Windows, it is `Administrator`; in Ubuntu, it is `ubuntu`; in Linux, it is `root`.
- To reset the password of a running instance, you need to set the parameter `ForceStop` to `True` for a forced shutdown. If not, only passwords of stopped instances can be reset.
- Batch operations are supported. You can reset the passwords of up to 100 instances to the same value once.
- You can call the DescribeInstances API and find the result of the operation in the response parameter `LatestOperationState`. If the value is `SUCCESS`, the operation is successful.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResetInstancesPassword.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of	Instance ID(s). To obtain the instance IDs, you can call

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		String	`DescribeInstances` and look for `InstanceId` in the response. The maximum number of instances in each request is 100.
Password	Yes	String	Login password of the instance. The password requirements vary among different operating systems: For a Linux instance, the password must be 8 to 30 characters in length; password with more than 12 characters is recommended. It cannot begin with "/", and must contain at least one character from three of the following categories: • Lowercase letters: [a-z] • Uppercase letters: [A-Z] • Numbers: 0-9 • Special characters: ()`~!@#$%^&*-+=_\|{}[]:;'<>,.?/ For a Windows CVM, the password must be 12 to 30 characters in length. It cannot begin with "/" or contain a username. It must contain at least one character from three of the following categories: • Lowercase letters: [a-z] • Uppercase letters: [A-Z] • Numbers: 0-9 • Special characters: ()`~!@#$%^&*-+=_|{}[]:;' <>,.?/ • If the specified instances include both `Linux` and `Windows` instances, you will need to follow the password requirements for `Windows` instances.
UserName	No	String	Username of the instance operating system for which the password needs to be reset. This parameter is limited to 64 characters.
ForceStop	No	Boolean	Whether to force shut down a running instances. It is recommended to manually shut down a running instance before resetting the user password. Valid values: • TRUE: force shut down an instance after a normal shutdown fails. • FALSE: do not force shut down an instance after a normal shutdown fails. Default value: FALSE. A forced shutdown is similar to switching off the power of a physical computer. It may cause data loss or file system corruption. Be sure to only force shut down a CVM when it cannot be shut down normally.

3. Output Parameters

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

4. Example

Example1 Resetting the password of a Linux/Windows instance

This example shows you how to reset the password of a Linux/Windows instance, and then use the new password to log in to the instance.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ResetInstancesPassword
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&Password=abc123ABC!@#
&ForceStop=TRUE
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go

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- Tencent Cloud SDK 3.0 for 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.InvalidInstanceApplicationRole	
InternalServerError	Internal error.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InvalidPassword	Invalid password. The specified password does not meet the complexity requirements (e.g., too long or too short)
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.TooLong	Invalid parameter value: parameter value is too long.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.

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OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateRunning	Running instances do not support this operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.SpecialInstanceType	This special instance type does not support the

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	operation.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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ModifyInstancesAttribute

Last updated：2024-01-04 16:11:09

1. API Description

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

The API is used to modify the attributes of an instance. Only the name and the associated security groups can be modified for now.

- An attribute must be specified in the request.
- "Instance name" is a custom name for easier management. Tencent Cloud does not use the name for online support or instance management.
- Batch operations are supported. Each request can modify up to 100 instances.
- When you modify the security groups associated with an instance is modified, the original security groups are disassociated.
- You can use the API DescribeInstances to query the instance operation result. If the 'LatestOperationState' in the response is **SUCCESS**, the operation is successful.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyInstancesAttribute.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this

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			API.
InstanceIds.N	Yes	Array of String	Instance ID(s). To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response. The maximum number of instances in each request is 100.
InstanceName	No	String	The instance name, which can not exceed 60 characters Either `InstanceName` or `SecurityGroups` must be specified, but they can not be both specified.
SecurityGroups.N	No	Array of String	IDs of security groups associated with the specified instance. You can associate with a security group by adding its ID, or cancel the association with a security group by removing its ID. Either `InstanceName` or `SecurityGroups` must be specified, but they cannot be both set.
CamRoleName	No	String	The role bound with the instance. If it is not specified, it indicates to unbind the current role of the CVM.
HostName	No	String	Host name of the instance. • Hyphens (-) cannot be the start or end of a host name or appear consecutively in a host name. • Windows: 2-15 characters, including [a-z], [A-Z], [0-9] and hyphens (-). Digit-only strings are not allowed. • Other OS: 2-60 characters, including [a-z], [A-Z], [0-9] and [.-]. Separate characters with dots.
DisableApiTermination	No	Boolean	Whether the termination protection is enabled. Values: • `TRUE` : enable instance protection, which means that this instance can not be deleted by an API action. • `FALSE` : do not enable the instance protection. Default Value: `FALSE` .
CamRoleType	No	String	The role type, which is used in conjunction with `CamRoleName` . The value is obtained in `RoleType`

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			field, returning by `CAM DescribeRoleList` and `GetRole` APIs. Valid value: `user`, `system` and `service_linked`. For example, when `LinkedRoleIn` is contained in `CamRoleName` (such as `TKE_QCSLinkedRoleInPrometheusService`), the returned `RoleType` of `DescribeRoleList` and `GetRoleis` is `service_linked`, and the `CamRoleType` `service_linked`. When the value obtained in `RoleType` is `user` (default) or `system`, `CamRoleType` can be left empty.

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 instances

This example shows you how to rename two instances.

Input Example

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

{
"InstanceName": "Mysql_Server",
"InstanceIds": [
"ins-5d8a23rs",
"ins-r8hr2upy"
```

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```
]
}
```

Output Example

```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure.CamRoleNameAuthenticateFailed	Role name authentication failed.
FailedOperation.InvalidInstanceApplicationRole	

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FailedOperation.SecurityGroupActionFailed	Security group operation failed.
InternalServerError	Internal error.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceName.TooLong	The specified InstanceName exceeds the maximum length of 60 bytes.
InvalidParameter.HostNameIllegal	The specified HostName is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CamRoleNameMalformed	Invalid `CamRoleName` . This parameter must contain only letters, numbers and symbols (`+` , `=` , `,` , `.` , `@` , `_` , `-`).
InvalidParameterValue.IllegalHostName	The value of HostName is invalid.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InvalidUserDataFormat	Incorrect UserData format. Use the Base64-encoded format.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidSecurityGroupId.NotFound	The specified `security group ID` does not exist.
LimitExceeded.AssociateUSGLimitExceeded	An instance can be bound with up to 5 security groups.
LimitExceeded.CvmsVifsPerSecGroupLimitExceeded	The CVM ENIs associated with the security group has exceeded the limit.
LimitExceeded.SingleUSGQuota	The number of security groups

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	exceeds the quota limit.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.

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UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminated	Terminated instances are not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.InvalidInstanceNotSupportedProtectedInstance	This operation is not supported for the instance with a termination schedule. Please cancel the scheduled termination time in the instance details page and try again.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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ModifyInstancesProject

Last updated：2024-01-04 16:11:08

1. API Description

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

This API is used to change the project to which an instance is assigned.

- Project is a virtual concept. You can create multiple projects under one account, manage different resources in each project, and assign different instances to different projects. You may use the DescribeInstances API to query instances and use the project ID to filter the results.
- You cannot modify the project of an instance that is bound to a load balancer. You need to unbind the load balancer from the instance by using the DeregisterInstancesFromLoadBalancer API before using this API.
- Batch operations are supported. Up to 100 instances per request is allowed.
- You can use the API DescribeInstances to query the operation result. If the `LatestOperationState` in the response is `SUCCESS`, the operation is successful.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyInstancesProject.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

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InstanceIds.N	Yes	Array of String	Instance IDs. To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response. You can operate up to 100 instances in each request.
ProjectId	Yes	Integer	Project ID. You can use the API `AddProject` to create projects, and obtain the `projectId` field in the response of the `DescribeProject` API. When using the DescribeInstances API to query instances later, you can filter the results by the project 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 projects of two instances

This example shows you how to change the projects of two instances.

Input Example

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

{
"ProjectId": "1045",
"InstanceIds": [
"ins-5d8a23rs",
"ins-r8hr2upy"
]
}
```

Output Example

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```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.

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InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidProjectId.NotFound	Invalid project ID: the specified project ID does not exist.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated

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InquirePricePurchaseReservedInstancesOffering

Last updated：2024-01-04 16:11:10

1. API Description

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

This API is used to query the price of reserved instances. It only supports querying purchasable reserved instance offerings. Currently, RIs are only offered to beta users.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquirePricePurchaseReservedInstancesOffering.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceCount	Yes	Integer	The number of the reserved instances you are purchasing.
ReservedInstancesOfferingId	Yes	String	The ID of the reserved instance offering.
DryRun	No	Boolean	Dry run.

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ClientToken	No	String	A unique string supplied by the client to ensure that the request is idempotent. Its maximum length is 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be guaranteed. For more information, see Ensuring Idempotency.
ReservedInstanceName	No	String	Reserved instance name. • The RI name defaults to “unnamed” if this parameter is left empty. • You can enter any name within 60 characters (including the pattern string).

3. Output Parameters

Parameter Name	Type	Description
Price	ReservedInstancePrice	Price of the reserved instance with specified configuration.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the price of reserved instance offerings

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=InquirePricePurchaseReservedInstances
Offering
&InstanceCount=2
&ReservedInstancesOfferingId=noew0342-324f-f3ab-9uut-wrlnth53dcee
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "b333ddb8-4aed-4def-a0d9-617043c2614e"
```

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```
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InquiryPriceFailed	Price query failed.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
UnsupportedOperation.InvalidPermissionNonInternationalAccount	The current operation is only supported for Tencent Cloud International users.

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DescribeReservedInstancesConfigInfos

Last updated：2024-01-04 16:11:11

1. API Description

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

This API is used to describe reserved instance (RI) offerings. Currently, RIs are only offered to beta users.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeReservedInstancesConfigInfos.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
Filters.N	No	Array of Filter	zone Filters by the availability zones in which the reserved instance can be purchased, such as `ap-guangzhou-1` . Type: String Required: no Valid values: list of regions/availability zones product-description Filters by the platform description (operating system) of the reserved instance, such as `linux` .

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			Type: String Required: no Valid value: linux duration Filters by the **validity** of the reserved instance, which is the purchased usage period. For example, `31536000` . Type: Integer Unit: second Required: no Valid value: 31536000 (1 year)

3. Output Parameters

Parameter Name	Type	Description
ReservedInstanceConfigInfos	Array of ReservedInstanceConfigInfoItem	Static configurations of the reserved instance.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying reserved instance configurations

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeReservedInstancesConfigInfos
&Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-1
&Offset=0
&Limit=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"ReservedInstanceConfigInfos": [
```

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```
{
"Type": "C",
"TypeName": "Compute",
"Order": 400,
"InstanceFamilies": [
{
"InstanceFamily": "C3",
"Order": 402,
"InstanceTypes": [
{
"InstanceType": "C3.LARGE8",
"Cpu": 4,
"Memory": 8,
"Gpu": 0,
"Fpga": 0,
"StorageBlock": 0,
"NetworkCard": 0,
"MaxBandwidth": 2.5,
"Frequency": "3.2 GHz",
"CpuModelName": "Intel Xeon Skylake 6146",
"Pps": 60,
"Externals": {},
"Remark": "",
"Prices": [
{
"ReservedInstancesOfferingId": "de06832b-1961-4efd-a470-efee242812a8",
"OfferingType": "All Upfront",
"FixedPrice": 200.99,
"UsagePrice": 0
},
{
"ReservedInstancesOfferingId": "daa72710-c529-4ab3-afca-917e192ea49d",
"OfferingType": "Partial Upfront",
"FixedPrice": 100.99,
"UsagePrice": 1.99
},
{
"ReservedInstancesOfferingId": "d81353d7-fe7d-43d0-a361-fb5633a9a7e5",
"OfferingType": "No Upfront",
"FixedPrice": 0,
"UsagePrice": 2.99
}
]
}
]
}
]
```


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```
}
],
"RequestId": "87eccd3e-9e7a-4b42-be3a-87eccd3e"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for Node.js
- 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
InvalidFilter	Invalid filter.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
UnsupportedOperation.InvalidPermissionNonInternationalAccount	The current operation is only supported for Tencent Cloud International users.
UnsupportedOperation.ReservedInstanceInvisibleForUser	Purchasing reserved instances is not supported for the current user.

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DescribeInstancesStatus

Last updated：2024-01-04 16:11:11

1. API Description

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

This API is used to query the status of instances.

- You can query the status of an instance with its `ID` .
- If no parameter is defined, the status of a certain number of instances under the current account will be returned. The number is specified by `Limit` and is 20 by default.

A maximum of 40 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeInstancesStatus.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	No	Array of String	Query by instance ID(s). For example, instance ID: `ins-xxxxxxxx` . For the specific format, refer to section `Ids.N` of the API Introduction. You can query up to 100 instances in each request.
Offset	No	Integer	Offset; default value: 0. For more information on `Offset` , see the corresponding section in API Introduction.

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Limit	No	Integer	Number of results returned; default value: 20; maximum: 100. For more information on `Limit` , see the corresponding section in API Introduction.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of instance states meeting the filtering conditions.
InstanceStatusSet	Array of InstanceStatus	Instance status 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 instance status

This example shows you how to query the status of two specified instances.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeInstancesStatus
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&Offset=0
&Limit=2
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TotalCount": 2,
"InstanceStatusSet": [
{
"InstanceId": "ins-r8hr2upy",
"InstanceState": "RUNNING"
},
```

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```
{
"InstanceId": "ins-5d8a23rs",
"InstanceState": "STOPPED"
}
],
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidFilter	Invalid filter.
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID`

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	length.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnsupportedOperation	Unsupported operation.

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PurchaseReservedInstancesOffering

Last updated：2024-01-04 16:11:08

1. API Description

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

This API is used to purchase one or more specific Reserved Instances.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: PurchaseReservedInstancesOffering.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceCount	Yes	Integer	The number of the Reserved Instance you are purchasing.
ReservedInstancesOfferingId	Yes	String	The ID of the Reserved Instance.
DryRun	No	Boolean	Dry run
ClientToken	No	String	A unique string supplied by the client to ensure that the request is idempotent. Its maximum length is 64 ASCII characters. If this parameter is not specified,

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			the idempotency of the request cannot be guaranteed. For more information, see Ensuring Idempotency.
ReservedInstanceName	No	String	Reserved instance name. • The RI name defaults to “unnamed” if this parameter is left empty. • You can enter any name within 60 characters (including the pattern string).

3. Output Parameters

Parameter Name	Type	Description
ReservedInstanceId	String	The ID of the Reserved Instance purchased.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Purchasing a reserved instance

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=PurchaseReservedInstancesOffering
&InstanceCount=2
&ReservedInstancesOfferingId=noew0342-324f-f3ab-9uut-wrlnth53dcee
&<Common request parameters>
```

Output Example

```
{
"Response": {
"ReservedInstanceId": "13d8e599-b8dc-4e8a-80b4-7dce9eb27043",
"RequestId": "b333ddb8-4aed-4def-a0d9-617043c2614e"
}
}
```

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5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalError.TradeUnknownError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidClientToken.TooLong	The specified ClientToken exceeds the maximum length of 64 bytes.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
UnsupportedOperation.InvalidPermissionNonInternationalAccount	The current operation is only supported for Tencent Cloud International users.
UnsupportedOperation.ReservedInstanceInvisibleForUser	Purchasing reserved instances is not supported for the current user.

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UnsupportedOperation.ReservedInstanceOutofQuata	You've used up your quota for Reserved Instances.

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Cloud Hosting Cluster APIs DescribeChcHosts

Last updated：2024-01-04 16:11:17

1. API Description

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

This API is used to query the details of one or more CHC host.

- You can filter the query results with the instance ID, name or device type. See `Filter` for more information.
- If no parameter is defined, a certain number of instances under the current account will be returned. The number is specified by `Limit` and is `20` by default.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeChcHosts.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ChcIds.N	No	Array of String	CHC host ID. Up to 100 instances per request is allowed. `ChcIds` and `Filters` cannot be specified at the same time.
Filters.N	No	Array	• **zone**

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		of Filter	Filter by the **availability zone**, such as `ap-guangzhou-1` . Type: String Optional Valid values: See Regions and Availability Zones • **instance-name** Filter by the **instance name**. Type: String Optional • **instance-state** Filter by the **instance status**. For status details, see InstanceStatus. Type: String Optional • **device-type** Filter by the **device type**. Type: String Optional • **vpc-id** Filter by the **unique VPC ID**. Type: String Optional • **subnet-id** Filter by the **unique VPC subnet ID**. Type: String Optional

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Offset	No	Integer	The offset. Default value: `0` . For more information on `Offset` , see the relevant sections in API Introduction.
Limit	No	Integer	The number of returned results. Default value: `20` . Maximum value: `100` . For more information on `Limit` , see the relevant sections in API Introduction.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances
ChcHostSet	Array of ChcHost	List of returned instances
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying an instance by the CHC ID

This example shows you how to query an instance by the CHC ID.

Input Example

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

{
"ChcIds": [
"chc-1a2b3c4d"
]
}
```

Output Example

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```
{
"Response": {
"ChcHostSet": [
{
"ChcId": "chc-1a2b3c4d",
"InstanceName": "Hosted CVM instance",
"SerialNumber": "sn34asdfabd",
"InstanceState": "RUNNING",
"DeviceType": "CHC_HS1",
"Placement": {
"Zone": "ap-guangzhou-2"
},
"BmcVirtualPrivateCloud": {
"SubnetId": "subnet-a2676p0e",
"VpcId": "vpc-g7wzcv7n"
},
"BmcIp": "10.12.10.34",
"BmcSecurityGroupIds": [
"sg-1a2b3c4d"
],
"DeployVirtualPrivateCloud": {
"SubnetId": "subnet-a26734fs",
"VpcId": "vpc-g7wz234f"
},
"DeployIp": "10.12.20.34",
"DeploySecurityGroupIds": [
"sg-1a2b34af"
],
"CvmInstanceId": "ins-1a2bafst",
"CreatedTime": "2020-03-10T02:43:51Z",
"HardwareDescription": "50C 128G 12*4T",
"Memory": 128,
"DeployMAC": "52:54:00:68:CC:00",
"BmcMAC": "52:54:00:68:CC:01",
"Disk": "12*4T",
"CPU": 50
}
],
"TotalCount": 2,
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```


5. Developer Resources

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SDK

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

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	`Filter`
InvalidParameter.AtMostOne	Up to one parameter can be specified.
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found.
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.
InvalidParameterValue.NotEmpty	The parameter value is required.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
InvalidParameterValue.SubnetIdMalformed	Invalid subnet ID. Please provide a subnet ID in the format of subnet-xxxxxxxx, where “x” can be a lowercase letter or number.
InvalidParameterValue.VpcIdMalformed	The VPC ID `xxx` is invalid. Please provide a VPC ID in the format of vpc-xxxxxxxx, where “x” can be a lowercase letter or

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	number.
InvalidParameterValueLimit	The number of parameter values exceeds the limit.
InvalidParameterValueOffset	Invalid parameter value: invalid `Offset` .
InvalidZone.MismatchRegion	The specified `zone` does not exist.
MissingParameter	Missing parameter.

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RemoveChcDeployVpc

Last updated：2024-01-04 16:11:16

1. API Description

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

This API is used to remove the deployment network of a CHC 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: RemoveChcDeployVpc.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ChcIds.N	Yes	Array of String	CHC ID

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Removing the deployment network of a CHC host

This example shows you how to remove the deployment network of a CHC host.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=RemoveChcDeployVpc
&ChcIds.0=chc-1a2b3c4d
&ChcIds.1=chc-adf34aft
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```

5. Developer Resources

SDK

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

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Command Line Interface

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6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
InvalidHost.NotSupported	The specified operation on this CDH instance is not support .
InvalidParameter	A parameter error occurred.
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found.
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.

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RemoveChcAssistVpc

Last updated：2024-01-04 16:11:16

1. API Description

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

This API is used to remove the out-of-band network and deployment network of a CHC 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: RemoveChcAssistVpc.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ChcIds.N	Yes	Array of String	CHC ID

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Removing the out-of-band network and deployment network of a CHC host

This example shows you how to remove the out-of-band network and deployment network of a CHC host.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=RemoveChcAssistVpc
&ChcIds.0=chc-1a2b3c4d
&ChcIds.1=chc-adf34aft
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
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Command Line Interface

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6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
InvalidHost.NotSupported	The specified operation on this CDH instance is not support .
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found.
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.

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ModifyChcAttribute

Last updated：2024-01-04 16:11:17

1. API Description

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

This API is used to modify the CHC host attributes.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyChcAttribute.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ChcIds.N	Yes	Array of String	CHC host IDs
InstanceName	No	String	CHC host name
DeviceType	No	String	Server type
BmcUser	No	String	Valid characters: Letters, numbers, hyphens and underscores

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Password	No	String	The password can contain 8 to 16 characters, including letters, numbers and special symbols (()`~!@#$%^&*-+=_|{}).
BmcSecurityGroupIds.N	No	Array of String	BMC network security group 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 the CHC host attributes

This example shows you how to modify the CHC attributes.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ModifyChcAttribute
&ChcIds.0=chc-r8hr2upy
&ChcIds.1=chc-5d8a23rs
&InstanceName=server1
&DeviceType=CHC_HS1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

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5. Developer Resources

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Command Line Interface

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6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
InvalidHost.NotSupported	The specified operation on this CDH instance is not support .
InvalidParameter	A parameter error occurred.
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found.
InvalidParameterValue.ChcNetworkEmpty	No network is configured for this CHC.
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.NotEmpty	The parameter value is required.
InvalidPassword	Invalid password. The specified password does not meet the password requirements. For example, the password length does

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	not meet the requirements.
InvalidSecurityGroupId.NotFound	The specified `security group ID` does not exist.

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ConfigureChcDeployVpc

Last updated：2024-01-04 16:11:17

1. API Description

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

This API is used to configure the deployment network of a CHC 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: ConfigureChcDeployVpc.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ChcIds.N	Yes	Array of String	CHC instance ID
DeployVirtualPrivateCloud	Yes	VirtualPrivateCloud	Deployment network information
DeploySecurityGroupIds.N	No	Array of String	Deployment network security group list

3. Output Parameters

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

4. Example

Example1 Configuring the deployment network of a CHC host

This example shows you how to configure the deployment network of a CHC.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ConfigureChcDeployVpc
&ChcIds.0=chc-1a2b3c4d
&ChcIds.1=chc-adf34aft
&DeployVirtualPrivateCloud.SubnetId="subnet-1234abcd"
&DeployVirtualPrivateCloud.VpcId="vpc-1234abcd8"
&DeployVirtualPrivateCloud.PrivateIpAddresses.0=10.0.1.2
&DeployVirtualPrivateCloud.PrivateIpAddresses.1=10.0.1.3
&DeploySecurityGroupIds.0=sg-8a7f6d5s
&ChcDeployExtraConfig.MiniOsType=public
&ChcDeployExtraConfig.BootType=x86_legacy
&ChcDeployExtraConfig.BootFile=pxelinux.0
&ChcDeployExtraConfig.NextServerAddress=169.254.68.10
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
InvalidHost.NotSupported	The specified operation on this CDH instance is not support .
InvalidInstance.NotSupported	This instance is not supported.
InvalidParameter	A parameter error occurred.
InvalidParameterValue.AmountNotEqual	The number of request parameters are not equal.
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found.
InvalidParameterValue.DeployVpcAlreadyExists	A deployment VPC already exists.
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.MustDhcpEnabledVpc	The parameter value must be a DHCP-enabled VPC.
VpcAddrNotInSubNet	The VPC IP address is not in the subnet.
VpcIpIsUsed	The VPC IP address is already occupied.

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ConfigureChcAssistVpc

Last updated：2024-01-04 16:11:18

1. API Description

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

This API is used to configure the out-of-band network and deployment network of a CHC 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: ConfigureChcAssistVpc.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ChcIds.N	Yes	Array of String	CHC host IDs
BmcVirtualPrivateCloud	Yes	VirtualPrivateCloud	Out-of-band network information
BmcSecurityGroupIds.N	No	Array of String	Out-of-band network security group list
DeployVirtualPrivateCloud	No	VirtualPrivateCloud	Deployment network information
DeploySecurityGroupIds.N	No	Array of String	Deployment network security group list

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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 Configuring the out-of-band network and deployment network of a CHC

This example shows you how to configure the out-of-band network and deployment network of a CHC host.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ConfigureChcAssistVpc
&ChcIds.0=chc-1a2b3c4d
&ChcIds.1=chc-adf34aft
&BmcVirtualPrivateCloud.SubnetId="subnet-12345678"
&BmcVirtualPrivateCloud.VpcId="vpc-12345678"
&BmcVirtualPrivateCloud.PrivateIpAddresses.0=10.0.0.2
&BmcVirtualPrivateCloud.PrivateIpAddresses.1=10.0.0.3
&BmcSecurityGroupIds.0=sg-12345678
&DeployVirtualPrivateCloud.SubnetId="subnet-1234abcd"
&DeployVirtualPrivateCloud.VpcId="vpc-1234abcd8"
&DeployVirtualPrivateCloud.PrivateIpAddresses.0=10.0.1.2
&DeployVirtualPrivateCloud.PrivateIpAddresses.1=10.0.1.3
&DeploySecurityGroupIds.0=sg-8a7f6d5s
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```

5. Developer Resources

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SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
InvalidHost.NotSupported	The specified operation on this CDH instance is not support .
InvalidInstance.NotSupported	This instance is not supported.
InvalidParameter	A parameter error occurred.
InvalidParameterValue.AmountNotEqual	The number of request parameters are not equal.
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found.
InvalidParameterValue.IPAddressMalformed	Invalid IP format
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.MustDhcpEnabledVpc	The parameter value must be a DHCP-enabled VPC.
InvalidParameterValue.SubnetIdMalformed	Invalid subnet ID. Please provide a subnet ID in the format of

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	subnet-xxxxxxxx, where “x” can be a lowercase letter or number.
LimitExceeded.VpcSubnetNum	Insufficient subnet IPs.
VpcAddrNotInSubNet	The VPC IP address is not in the subnet.
VpcIpIsUsed	The VPC IP address is already occupied.

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DescribeChcDeniedActions

Last updated：2024-01-04 16:11:17

1. API Description

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

This API is used to query the actions not allowed for the specified CHC instances.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeChcDeniedActions.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ChcIds.N	Yes	Array of String	CHC instance ID

3. Output Parameters

Parameter Name	Type	Description
ChcHostDeniedActionSet	Array of	Actions not allowed for the CHC instance

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

4. Example

Example1 Querying actions not allowed for the specified CHC instances

This example shows you how to query the actions not allowed for the specified CHC instances.

Input Example

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

{
"ChcIds": [
"chc-adf34aft",
"chc-1a2b3c4d"
]
}
```

Output Example

```
{
"Response": {
"ChcHostDeniedActionSet": [
{
"ChcId": "chc-1a2b3c4d",
"DenyActions": [
"ConfigureChcAssistVpc",
"RunInstances"
],
"State": "INIT"
},
{
"ChcId": "chc-adf34aft",
"DenyActions": [
"ConfigureChcAssistVpc",
"RunInstances"
```

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```
],
"State": "INIT"
}
],
"RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A"
}
}
```


5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found.
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.

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Placement Group APIs DescribeDisasterRecoverGroups

Last updated：2024-01-04 16:10:58

1. API Description

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

This API is used to query the information on spread placement groups.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeDisasterRecoverGroups.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
DisasterRecoverGroupIds.N	No	Array of String	ID list of spread placement groups. You can operate up to 100 spread placement groups in each request.
Name	No	String	Name of a spread placement group. Fuzzy match is supported.
Offset	No	Integer	Offset; default value: 0. For more information on

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			`Offset` , see the corresponding section in API Introduction.
Limit	No	Integer	Number of results returned; default value: 20; maximum: 100. For more information on `Limit` , see the corresponding section in API Introduction.

3. Output Parameters

Parameter Name	Type	Description
DisasterRecoverGroupSet	Array of DisasterRecoverGroup	Information on spread placement groups.
TotalCount	Integer	Total number of placement groups of the user.
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 a spread placement group

This example shows you how to query the information of a spread placement group.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeDisasterRecoverGroups
&<Common request parameters>
```

Output Example

```
{
"Response": {
"DisasterRecoverGroupSet": [
{
"DisasterRecoverGroupId": "ps-21q9ibvr",
"Name": "Database service",
"Type": "RACK",
"CvmQuotaTotal": 30,
"CurrentNum": 0,
"InstanceIds": [],
```

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```
"CreateTime": "2018-04-19T02:47:12Z"
}
],
"TotalCount": 1,
"RequestId": "c68ce193-be41-4d13-9a9b-2dc031db6477"
}
}
```


5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for Node.js
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameterValue.DisasterRecoverGroupIdMalformed	Incorrect placement group ID format.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.

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DescribeDisasterRecoverGroupQuota

Last updated：2024-01-04 16:10:59

1. API Description

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

This API is used to query the quota of spread placement groups.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeDisasterRecoverGroupQuota.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
GroupQuota	Integer	The maximum number of placement groups that can be created.
CurrentNum	Integer	The number of placement groups that have been created by the current user.

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CvmInHostGroupQuota	Integer	Quota on instances in a physical-machine-type disaster recovery group.
CvmInSwGroupQuota	Integer	Quota on instances in a switch-type disaster recovery group.
CvmInRackGroupQuota	Integer	Quota on instances in a rack-type disaster recovery group.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying placement group quota

This example shows you how to query the quota of your placement groups.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeDisasterRecoverGroupQuota
&<Common request parameters>
```

Output Example

```
{
"Response": {
"GroupQuota": 10,
"CvmInHostGroupQuota": 50,
"CvmInSwGroupQuota": 20,
"CvmInRackGroupQuota": 30,
"CurrentNum": 25,
"RequestId": "a13da94a-1cbc-42ca-ac6c-e14ef0c76a7c"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java

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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.

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CreateDisasterRecoverGroup

Last updated：2024-01-04 16:10:59

1. API Description

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

This API is used to create a spread placement group. After you create one, you can specify it for an instance when you create the instance,

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateDisasterRecoverGroup.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
Name	Yes	String	Name of the spread placement group. The name must be 1-60 characters long and can contain both Chinese characters and English letters.
Type	Yes	String	Type of the spread placement group. Valid values: • HOST: physical machine • SW: switch • RACK: rack
ClientToken	No	String	A string used to ensure the idempotency of the request, which is

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			generated by the user and must be unique to each request. The maximum length is 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be guaranteed. For more information, see 'How to ensure idempotency'.

3. Output Parameters

Parameter Name	Type	Description
DisasterRecoverGroupId	String	List of spread placement group IDs.
Type	String	Type of the spread placement group. Valid values: • HOST: physical machine • SW: switch • RACK: rack.
Name	String	Name of the spread placement group. The name must be 1-60 characters long and can contain both Chinese characters and English letters.
CvmQuotaTotal	Integer	The maximum number of CVMs in a placement group.
CurrentNum	Integer	The current number of CVMs in a placement group.
CreateTime	Timestamp	Creation time of the placement group.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a spread placement group

This example shows you how to create a spread placement group.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=CreateDisasterRecoverGroup
&Name=Physical machine spread placement group
&Type=HOST
&<Common request parameters>
```

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Output Example

```
{
"Response": {
"Type": "HOST",
"DisasterRecoverGroupId": "ps-qajfd25h",
"Name": "Physical machine spread placement group",
"CvmQuotaTotal": 50,
"CurrentNum": 0,
"CreateTime": "2020-09-22 00:00:00",
"RequestId": "21387009-9b9c-4b57-8fa2-8228f702ff6c"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID

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InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
InvalidParameterValue.TooLong	Invalid parameter value: parameter value is too long.
ResourceInsufficient.InsufficientGroupQuota	

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ModifyDisasterRecoverGroupAttribute

Last updated：2024-01-04 16:10:58

1. API Description

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

This API is used to modify the attributes of spread placement groups.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyDisasterRecoverGroupAttribute.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
DisasterRecoverGroupId	Yes	String	Spread placement group ID, which can be obtained by calling the DescribeDisasterRecoverGroups API.
Name	Yes	String	Name of a spread placement group. The name must be 1-60 characters long and can contain both Chinese characters and English letters.

3. Output Parameters

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

4. Example

Example1 Modifying the name of a spread placement group

This example shows you how to modify the name of a spread placement group.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ModifyDisasterRecoverGroupAttribute
&DisasterRecoverGroupId=ps-58l1hu01
&Name=Physical machine spread placement group 1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6e185c04-116f-47b7-b21c-e13580c5d0f2"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
InvalidParameterValue.TooLong	Invalid parameter value: parameter value is too long.
ResourceInsufficient.DisasterRecoverGroupCvmQuota	The number of instances exceeded the quota limit of spread placement groups.
ResourceNotFound.InvalidPlacementSet	The specified placement group does not exist.

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DeleteDisasterRecoverGroups

Last updated：2024-01-04 16:10:59

1. API Description

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

This API is used to delete a spread placement group. Only empty placement groups can be deleted. To delete a non-empty group, you need to terminate all the CVM instances in it first. Otherwise, the deletion will fail.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteDisasterRecoverGroups.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
DisasterRecoverGroupIds.N	Yes	Array of String	ID list of spread placement groups, obtainable via the DescribeDisasterRecoverGroups API. You can operate up to 100 spread placement groups in each request.

3. Output Parameters

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

4. Example

Example1 Deleting a spread placement group

This example shows you how to delete a spread placement group.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DeleteDisasterRecoverGroups
&DisasterRecoverGroupIds.0=ps-5811hu01
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "8e50cdb5-56dc-408b-89b0-31818958d424"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.PlacementSetNotEmpty	The specified placement group is not empty.
InvalidParameterValue.DisasterRecoverGroupIdMalformed	Incorrect placement group ID format.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
ResourceInsufficient.DisasterRecoverGroupCvmQuota	The number of instances exceeded the quota limit of spread placement groups.
ResourceNotFound.InvalidPlacementSet	The specified placement group does not exist.

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Image APIs
DescribeImages

Last updated：2024-01-04 16:11:14

1. API Description

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

This API is used to view the list of images.

- You specify the image ID or set filters to query the details of certain images.
- You can specify `Offset` and `Limit` to select a certain part of the results. By default, the information on the first 20 matching results is returned.

A maximum of 40 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeImages.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ImageIds.N	No	Array of String	List of image IDs, such as `img-gvbnzy6f` . For the format of array-type parameters, see API Introduction. You can obtain the image IDs in two ways: • Call DescribeImages and look for `ImageId` in the response.

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			• View the image IDs in the Image Console.
Filters.N	No	Array of Filter	Filters. Each request can have up to 10 `Filters` , and 5 `Filters.Values` for each filter. `ImageIds` and `Filters` cannot be specified at the same time. See details: • **image-id** Filter by the **image ID**. Type: String Optional • **image-type** Filter by the **image type**. Type: String Optional Options: `PRIVATE_IMAGE` : Private images (images created by this account) `PUBLIC_IMAGE` : Public images (Tencent Cloud official images) `SHARED_IMAGE` : Shared images (images shared by other accounts to this account) • **image-name** Filter by the **image name**. Type: String Optional • **platform** Filter by the **image operating system**, such as `CentOS` . Type: String Optional • **tag-key**

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			Filter by the **tag key**. Type: String Optional • **tag-value** Filter by the **tag value**. Type: String Optional • **tag:tag-key** Filter by the **tag key-value pair**. Replace “tag-key” with the actual value. Type: String Optional
Offset	No	Integer	Offset; default value: 0. For more information on `Offset`, see API Introduction.
Limit	No	Integer	Number of results returned; default value: 20; maximum: 100. For more information on `Limit`, see API Introduction.
InstanceType	No	String	Instance type, e.g. `S1.SMALL1`

3. Output Parameters

Parameter Name	Type	Description
ImageSet	Array of Image	Information on an image, including its state and attributes.
TotalCount	Integer	Number of images meeting the filtering conditions.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

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4. Example

Example1 Querying an image by the image ID

This example shows you how to query the information of an image by the image ID.

Input Example

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

{
"Filters": [
{
"Values": [
"img-9qabwvbn"
],
"Name": "image-id"
}
]
}
```

Output Example

```
{
"Response": {
"TotalCount": 1,
"ImageSet": [
{
"ImageId": "img-9qabwvbn",
"OsName": "CentOS 7.6 64-bit",
"ImageSize": 50,
"ImageType": "PUBLIC_IMAGE",
"CreatedTime": "2020-09-22T00:00:00+00:00",
"ImageState": "NORMAL",
"ImageSource": "OFFICIAL",
"ImageName": "CentOS 7.6 64-bit",
"ImageDescription": "CentOS 7.6 64-bit",
"ImageCreator": null,
"SyncPercent": null,
"IsSupportCloudinit": true,
"Platform": "CentOS",
```

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```
"Architecture": "x86_64",
"SnapshotSet": []
"Tags": [
{
"Value": "xx",
"Key": "xx"
}
]
}
],
"RequestId": "db145873-3128-4079-8cec-65e05a7c9f89"
}
}
```

Example2 Querying an image by the image type

This example shows you how to query all private images under an account.

Input Example

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

{
"Filters": [
{
"Values": [
"PRIVATE_IMAGE"
],
"Name": "image-type"
}
]
}
```

Output Example

```
{
"Response": {
"TotalCount": 408,
"ImageSet": [
{
"OsName": "CentOS 7.4 64-bit",
"ImageSize": 20,
```

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```
"ImageType": "PRIVATE_IMAGE",
"CreatedTime": "2020-09-22T00:00:00+00:00",
"ImageDescription": "test-image",
"ImageSource": "CREATE_IMAGE",
"ImageId": "img-qlzp4oea",
"ImageName": "test-image",
"ImageCreator": "3205597606",
"ImageState": "NORMAL",
"SyncPercent": null,
"SnapshotSet": [
{
"SnapshotId": "snap-gqa37j2p",
"DiskUsage": "SYSTEM_DISK",
"DiskSize": 20
}
],
"Tags": [
{
"Value": "xx",
"Key": "xx"
}
],
"Architecture": "x86_64",
"Platform": "CentOS",
"IsSupportCloudinit": true
}
],
"RequestId": "5908394c-5b3f-42e0-a537-8410553890a5"
}
}
```


5. Developer Resources

SDK

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

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- 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.IllegalTagKey	The tag key contains invalid characters.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	`Filter`
InvalidImageId.Malformed	Invalid image ID format.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.
InvalidParameter.InvalidParameterCoexistImageIdsFilters	`ImageIds` and `Filters` cannot be specified at the same time.
InvalidParameterValue.InstanceTypeNotFound	The specified instance type does not exist.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidParameterValueLimit	Invalid parameter value.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.TagKeyNotFound	The specified tag does not exist
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
InvalidRegion.NotFound	The region cannot be found.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.

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UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnauthorizedOperation.PermissionDenied	You’re not authorized for the operation. Please check the CAM policy.
UnsupportedOperation	Unsupported operation.

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DescribeImageSharePermission

Last updated：2024-01-04 16:11:15

1. API Description

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

This API is used to query image sharing information.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeImageSharePermission.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ImageId	Yes	String	The ID of the image to be shared

3. Output Parameters

Parameter Name	Type	Description
SharePermissionSet	Array of SharePermission	Information on image sharing.

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

4. Example

Example1 Querying sharing information of a specified image

This example shows you how to query the sharing information of an image whose image ID is img-6pb6lrmy.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeImageSharePermission
&ImageId=img-6pb6lrmy
&<Common request parameters>
```

Output Example

```
{
"Response": {
"SharePermissionSet": [
{
"CreatedTime": "2018-06-10T11:02:50Z",
"AccountId": "101104350000"
},
{
"CreatedTime": "2018-06-13T15:03:25Z",
"AccountId": "101104350001"
}
],
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidAccountId.NotFound	Invalid account ID.
InvalidAccountIs.YourSelf	You cannot share images with yourself.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
OverQuota	The number of shared images exceeds the quota.
UnauthorizedOperation.ImageNotBelongToAccount	The specified image does not belong to the user.

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DescribeImportImageOs

Last updated：2024-01-04 16:11:14

1. API Description

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

This API is used to query the list of supported operating systems of imported images.

A maximum of 288 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeImportImageOs.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
ImportImageOsListSupported	ImageOsList	Supported operating system types of imported images.
ImportImageOsVersionSet	Array of OsVersion	Supported operating system versions of imported images.

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

4. Example

Example1 Querying the supported operating systems of imported images

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeImportImageOs
&<Common request parameters>
```

Output Example

```
{
"Response": {
"ImportImageOsListSupported": {
"Linux": [
"CentOS",
"Ubuntu",
"Debian",
"OpenSUSE",
"SUSE",
"CoreOS",
"FreeBSD",
"Other Linux"
],
"Windows": [
"Windows Server 2008",
"Windows Server 2012",
"Windows Server 2016"
]
},
"ImportImageOsVersionSet": [
{
"OsName": "Windows Server 2008",
"OsVersions": [
"_"
],
"Architecture": [
"x86_64",
"i386"
]
},
```

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```
{
"OsName": "Windows Server 2012",
"OsVersions": [
"-"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "Windows Server 2016",
"OsVersions": [
"-"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "CentOS",
"OsVersions": [
"5",
"6",
"7"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "CoreOS",
"OsVersions": [
"7"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "Debian",
"OsVersions": [
"6",
"7",
```


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```
"8",
"9"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "FreeBSD",
"OsVersions": [
"10"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "Redhat",
"OsVersions": [
"5",
"6",
"7"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "OpenSUSE",
"OsVersions": [
"11",
"12"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "SUSE",
"OsVersions": [
"10",
"11",
"12",
```


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```
"13"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "Ubuntu",
"OsVersions": [
"10",
"12",
"14",
"16"
],
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsName": "Other Linux",
"OsVersions": [
"_"
],
"Architecture": [
"x86_64",
"i386"
]
}
],
"RequestId": "32064a8f-8d3f-4670-8d4f-60123ca97042"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

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DescribeImageQuota

Last updated：2024-01-04 16:11:15

1. API Description

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

This API is used to query the image quota of an user account.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeImageQuota.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
ImageNumQuota	Integer	The image quota of an account
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

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4. Example

Example1 Querying image quota

This example shows you how to query your image quota.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeImageQuota
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be",
"ImageNumQuota": 20
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
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Command Line Interface

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6. Error Code

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There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

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CreateImage

Last updated：2024-01-04 16:11:16

1. API Description

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

This API is used to create a new image with the system disk of an instance. The image can be used to create new instances.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateImage.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ImageName	Yes	String	Image name
InstanceId	No	String	ID of the instance from which an image will be created. This parameter is required when using instance to create an image.
ImageDescription	No	String	Image description
ForcePoweroff	No	String	Whether to force shut down an instance to create an

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			image when a soft shutdown fails
Sysprep	No	String	Whether to enable Sysprep when creating a Windows image. Valid values: `TRUE` and `FALSE` ; default value: `FALSE` . Click here to learn more about Sysprep.
DataDiskIds.N	No	Array of String	IDs of data disks included in the image.
SnapshotIds.N	No	Array of String	Specified snapshot ID used to create an image. A system disk snapshot must be included. It cannot be passed together with `InstanceId` .
DryRun	No	Boolean	Success status of this request, without affecting the resources involved
TagSpecification.N	No	Array of TagSpecification	Tag description list. This parameter is used to bind a tag to a custom image.

3. Output Parameters

Parameter Name	Type	Description
ImageId	String	Image ID. Note: This field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an image

This example shows you how to create an image from the instance “ins-6pb6lrmy”. If the instance is running, perform a soft shutdown. If the soft shutdown fails, the task will end (default semantics).

Input Example

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

{
"InstanceId": "ins-6pb6lrmy",
"ImageName": "\"name\""
}
```

Output Example

```
{
"Response": {
"ImageId": "img-0yc6rie8",
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
ImageQuotaLimitExceeded	The image quota has been exceeded.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidImageName.Duplicate	The specified image name already exists.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter.DataDiskIdContainsRootDisk	RootDisk ID should not be passed to DataDiskIds.
InvalidParameter.DataDiskNotBelongSpecifiedInstance	The specified data disk does not belong to the specified instance.
InvalidParameter.DuplicateSystemSnapshots	Only one system disk snapshot can be included.
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameter.InvalidDependence	Invalid parameter dependency.
InvalidParameter.LocalDataDiskNotSupport	Local data disks cannot be used to create instance images.
InvalidParameter.SnapshotNotFound	The specified snapshot does not exist.
InvalidParameter.SpecifyOneParameter	At least one of the multiple parameters must be passed in.
InvalidParameter.SwapDiskNotSupport	Swap disks are not supported.
InvalidParameter.SystemSnapshotNotFound	The parameter does not contain system disk snapshot.
InvalidParameter.ValueTooLarge	The length of parameter exceeds the limit.
InvalidParameterConflict	The two specified parameters conflict. An EIP can only be bound to the instance or the specified private IP of the specified ENI.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID

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InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.PreheatNotSupportedInstanceType	Preheating is not supported on this model.
InvalidParameterValue.PreheatNotSupportedZone	Preheating is not supported in this availability zone.
InvalidParameterValue.PreheatUnavailableZones	
InvalidParameterValue.TagKeyNotFound	The specified tag does not exist
InvalidParameterValue.TagQuotaLimitExceeded	Tag quota limit exceeded.
InvalidParameterValue.TooLarge	The parameter value exceeds the maximum limit.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
LimitExceeded.PreheatImageSnapshotOutOfQuota	Reached the upper limit for preheating in this availability zone. Remove some snapshots first.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
ResourceInUse	The resource is in use.
ResourceInUse.DiskRollbacking	
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
ResourceUnavailable.SnapshotCreating	The snapshot is being created.
UnsupportedOperation.EncryptedImagesNotSupported	Encrypted images are not supported.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode,

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	and this operation is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.InvalidDiskFastRollback	
UnsupportedOperation.NotSupportInstanceImage	The instance does not support this operation.
UnsupportedOperation.PreheatImage	Image preheating is not supported under your account.
UnsupportedOperation.SpecialInstanceType	This special instance type does not support the operation.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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ModifyImageSharePermission

Last updated：2024-01-04 16:11:13

1. API Description

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

This API is used to modify image sharing information.

- The accounts with which an image is shared can use the shared image to create instances.
- Each custom image can be shared with up to 50 accounts.
- You can use a shared image to create instances, but you cannot change its name and description.
- If an image is shared with another account, the shared image will be in the same region as the original image.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyImageSharePermission.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ImageId	Yes	String	Image ID such as `img-gvbnzy6f` . You can obtain the image IDs in two ways: • Call DescribeImages and look for `ImageId` in the response.

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			• Look for the information in the Image Console. You can only specify an image in the `NORMAL` state. For more information on image states, see here.
AccountIds.N	Yes	Array of String	List of account IDs with which an image is shared. For the format of array-type parameters, see API Introduction. The account ID is different from the QQ number. You can find the account ID in Account Information.
Permission	Yes	String	Operations. Valid values: `SHARE` , sharing an image; `CANCEL` , cancelling an image sharing.

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 Sharing an image

This example shows you how to share the image `img-6pb6lrmy` to the account `1038493875` .

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ModifyImageSharePermission
&ImageId=img-6pb6lrmy
&AccountIds.0=1038493875
&Permission=SHARE
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

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5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for .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.AccountAlreadyExists	The account already exists.
FailedOperation.AccountIsYourSelf	You cannot share images with yourself.
FailedOperation.BYOLImageShareFailed	BYOL images cannot be shared.
FailedOperation.NotMasterAccount	You're using a collaborator account. Please enter a root account.
FailedOperation.QImageShareFailed	Image sharing failed.
FailedOperation.RImageShareFailed	Image sharing failed.
InvalidAccountId.NotFound	Invalid account ID.
InvalidAccountIs.YourSelf	You cannot share images with yourself.
InvalidImageId.Malformed	Invalid image ID format.

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InvalidImageId.NotFound	The image cannot be found.
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidImageId	The image does not support this operation.
InvalidParameterValue.InvalidImageState	The image has another ongoing task. Please check and try again later.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
OverQuota	The number of shared images exceeds the quota.
UnauthorizedOperation.ImageNotBelongToAccount	The specified image does not belong to the user.
UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnsupportedOperation.EncryptedImagesNotSupported	Encrypted images are not supported.
UnsupportedOperation.LocationImageNotSupported	

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SyncImages

Last updated：2024-01-04 16:11:13

1. API Description

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

This API is used to sync a custom image to other regions.

- Each API call syncs a single image.
- This API supports syncing an image to multiple regions.
- Each account can have up to 10 custom images in each region.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: SyncImages.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ImageIds.N	Yes	Array of String	List of image IDs. You can obtain the image IDs in two ways: • Call the DescribeImages API and find the value of `ImageId` in the response. • Find the image IDs in the Image Console. The specified images must meet the following requirement: • the images must be in the `NORMAL` state. For more information on image status, see Image Data

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			Table.
DestinationRegions.N	Yes	Array of String	List of destination regions for synchronization. Limits: • It must be a valid region. • For a custom image, the destination region cannot be the source region. • For a shared image, the destination region must be the source region, which indicates to create a copy of the image as a custom image in the same region. • Image synchronization is only available in limited regions. See Region.
DryRun	No	Boolean	Checks whether image synchronization can be initiated.
ImageName	No	String	Destination image name.
ImageSetRequired	No	Boolean	Whether to return the ID of image created in the destination region

3. Output Parameters

Parameter Name	Type	Description
ImageSet	Array of SyncImage	ID of the image created in the destination region
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Syncing an image

This example shows you how to sync the image `img-o3ycss2p` to Guangzhou.

Input Example

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

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```
{
"ImageIds": [
"img-o3ycss2p"
],
"DestinationRegions": [
"ap-guangzhou"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

Example2 Syncing an image to the specified region and returning the new image ID

This example shows you how to sync the image `img-o3ycss2p` to Guangzhou.

Input Example

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

{
"ImageIds": [
"img-o3ycss2p"
],
"DestinationRegions": [
"ap-guangzhou"
],
"ImageSetRequired": true
}
```

Output Example

```
{
"Response": {
"ImageSet": [
```

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```
{
"Region": "ap-guangzhou",
"ImageId": "img-evhmf3fy"
}
],
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InvalidImageState	The image is busy. Please try again later.
ImageQuotaLimitExceeded	The image quota has been exceeded.
InvalidImageId.IncorrectState	Invalid image status.
InvalidImageId.Malformed	Invalid image ID format.

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InvalidImageId.NotFound	The image cannot be found.
InvalidImageId.TooLarge	The image size exceeds the limit.
InvalidImageName.Duplicate	The specified image name already exists.
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameterValue.InvalidImageId	The image does not support this operation.
InvalidParameterValue.InvalidImageState	The image has another ongoing task. Please check and try again later.
InvalidParameterValue.InvalidRegion	The Region ID is unavailable.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidRegion.NotFound	The region cannot be found.
InvalidRegion.Unavailable	Currently this region does not support image synchronization.
UnsupportedOperation.EncryptedImagesNotSupported	Encrypted images are not supported.
UnsupportedOperation.LocationImageNotSupported	
UnsupportedOperation.Region	The region is unsupported.

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ModifyImageAttribute

Last updated：2024-01-04 16:11:13

1. API Description

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

This API is used to modify image attributes.

- Attributes of shared images cannot be modified.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyImageAttribute.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ImageId	Yes	String	Image ID such as `img-gvbnzy6f` . You can obtain the image IDs in two ways: • Call DescribeImages and look for `ImageId` in the response. • Look for the information in the Image Console.
ImageName	No	String	New image name, which must meet the following requirements: • No more than 20 characters. • Must be unique.

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ImageDescription	No	String	New image description, which must meet the following requirement: • No more than 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 Modifying image name

This example shows you how to rename the image `img-6pb6lrmy` to `sample` .

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ModifyImageAttribute
&ImageId=img-6pb6lrmy
&ImageName=sample
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
InvalidImageId.IncorrectState	Invalid image status.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidImageName.Duplicate	The specified image name already exists.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.TooLarge	The parameter value exceeds the maximum limit.
UnauthorizedOperation.InvalidToken	Check if the token is valid.

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DeleteImages

Last updated：2024-01-04 16:11:15

1. API Description

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

This API is used to delete one or more images.

- If the ImageState of an image is `CREATING` or `USING`, the image cannot be deleted. Call the DescribeImages API to query the image status.
- Up to 10 custom images are allowed in each region. If you have run out of the quota, delete unused images to create new ones.
- A shared image cannot be deleted.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteImages.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
ImageIds.N	Yes	Array of String	List of the IDs of the instances to be deleted.

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DeleteBindedSnap	No	Boolean	Whether to delete the snapshot associated with the image
DryRun	No	Boolean	Check whether deleting an image is supported

3. Output Parameters

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

4. Example

Example1 Deleting an image

This example shows you how to delete the image `img-34vaef8fe` . If the image is in use or the image ID does not exist, no operation will be performed, and an error code will be returned.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DeleteImages
&ImageIds.0=img-34vaef8fe
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

Example2 Checking whether the specified image can be deleted

This example shows you how to delete the image `img-34vaef8fe` . If the image is in use or the image ID does not exist, no operation will be performed and an error code will be returned.

Input Example

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

{
"ImageIds": [
"img-mfih409y"
],
"DryRun": "True",
"DeleteBindedSnap": "True"
}
```

Output Example

```
{
"Response": {
"RequestId": "f24aca43-5135-4c9b-81fb-734969ce4c78"
}
}
```

5. Developer Resources

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6. Error Code

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

Error Code	Description
InvalidImageId.InShared	The image is being shared.
InvalidImageId.IncorrectState	Invalid image status.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidImageId	The image does not support this operation.
InvalidParameterValue.InvalidImageIdIsShared	
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
MutexOperation.TaskRunning	An identical job is running.

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ImportImage

Last updated：2024-01-04 16:11:14

1. API Description

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

The API is used to import an image. The image imported can be used to create instances. Currently, this API can import images in formats like RAW, VHD, QCOW2, and VMDK.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ImportImage.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
Architecture	Yes	String	OS architecture of the image to be imported, `x86_64` or `i386` .
OsType	Yes	String	OS type of the image to be imported. You can call `DescribeImportImageOs` to obtain the list of supported operating systems.
OsVersion	Yes	String	OS version of the image to be imported. You can call

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			`DescribeImportImageOs` to obtain the list of supported operating systems.
ImageUrl	Yes	String	Address on COS where the image to be imported is stored.
ImageName	Yes	String	Image name
ImageDescription	No	String	Image description
DryRun	No	Boolean	Dry run to check the parameters without performing the operation
Force	No	Boolean	Whether to force import the image. For more information, see Forcibly Import Image.
TagSpecification.N	No	Array of TagSpecification	Tag description list. This parameter is used to bind a tag to a custom image.
LicenseType	No	String	The license type used to activate the OS after importing an image. Valid values: `TencentCloud` : Tencent Cloud official license `BYOL` : Bring Your Own License
BootMode	No	String	Boot mode

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 Importing an image

This example shows you how to import an image.

Input Example

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

{
"ImageUrl": "http://111-1251233127.cosd.myqcloud.com/Windows%20Server%202008%20R
2%20x64a.vmdk",
"ImageDescription": "sampleimage",
"ImageName": "sample",
"Architecture": "x86_64",
"OsType": "CentOS",
"OsVersion": "6"
}
```

Output Example

```
{
"Response": {
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
ImageQuotaLimitExceeded	The image quota has been exceeded.
InvalidImageName.Duplicate	The specified image name already exists.
InvalidImageOsType.Unsupported	The operating system type is not supported.
InvalidImageOsVersion.Unsupported	The operating system version is not supported.
InvalidParameter.InvalidParameterUrlError	Invalid URL.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidBootMode	Unsupported boot mode.
InvalidParameterValue.InvalidLicenseType	Invalid license type.
InvalidParameterValue.TagKeyNotFound	The specified tag does not exist
InvalidParameterValue.TooLarge	The parameter value exceeds the maximum limit.
OperationDenied.InnerUserProhibitAction	Operation denied: This is a restricted account.
RegionAbilityLimit.UnsupportedToImportImage	This region does not support importing images.

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ExportImages

Last updated：2024-01-04 16:11:14

1. API Description

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

This API is used to export custom images to the specified COS bucket.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ExportImages.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
BucketName	Yes	String	COS bucket name
ImageIds.N	No	Array of String	List of image IDs
ExportFormat	No	String	Format of the exported image file. Valid values: `RAW` , `QCOW2` , `VHD` and `VMDK` . Default value: `RAW` .
FileNamePrefixList.N	No	Array of String	Prefix list of the name of exported files

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OnlyExportRootDisk	No	Boolean	Whether to export only the system disk
DryRun	No	Boolean	Check whether the image can be exported
RoleName	No	String	Role name (Default: `CVM_QcsRole`). Before exporting the images, make sure the role exists, and it has write permission to COS.

3. Output Parameters

Parameter Name	Type	Description
TaskId	Integer	ID of the image export task
CosPaths	Array of String	List of COS filenames of the exported images
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Exporting custom images

This example shows you how to export custom images.

Input Example

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

{
"ImageIds": [
"img-72n9mi0y"
],
"BucketName": "test-bucket-AppId"
}
```

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Output Example

```
{
"Response": {
"RequestId": "7995cb6f-0018-4286-a4d4-b6301b962d9e",
"TaskId": 105591590,
"CosPaths": [
"/img-pq5pau1w_system_snap-fiux4bof.raw"
]
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure.CamRoleNameAuthenticateFailed	Role name authentication failed.
InvalidImageId.Malformed	Invalid image ID format.

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InvalidImageId.NotFound	The image cannot be found.
InvalidParameter.ImageIdsSnapshotIdsMustOne	Either `ImageIds` or `SnapshotIds` must be specified.
InvalidParameter.SnapshotNotFound	The specified snapshot does not exist.
InvalidParameterValue.BucketNotFound	The bucket does not exist.
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidBucketPermissionForExport	You don't have the write permission to the bucket.
InvalidParameterValue.InvalidFileNamePrefixList	The length of `FileNamePrefixList` does not match `ImageIds` or `SnapshotIds` .
InvalidParameterValue.InvalidImageId	The image does not support this operation.
InvalidParameterValue.InvalidImageOsName	The operating system of the specified image is not available in the current region.
InvalidParameterValue.InvalidImageState	The image has another ongoing task. Please check and try again later.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.TooLarge	The parameter value exceeds the maximum limit.
LimitExceeded.ExportImageTaskLimitExceeded	The number of image export tasks in progress reached the upper limit. Please try again after the running tasks are completed.
UnsupportedOperation.EncryptedImagesNotSupported	Encrypted images are not supported.
UnsupportedOperation.ImageTooLargeExportUnsupported	Failed to export the image: The image is too large.
UnsupportedOperation.MarketImageExportUnsupported	The custom images created with the market images cannot be exported.
UnsupportedOperation.PublicImageExportUnsupported	Public images and market images cannot be exported.
UnsupportedOperation.RedHatImageExportUnsupported	The RedHat image cannot be exported.
UnsupportedOperation.SharedImageExportUnsupported	Shared images cannot be exported.

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UnsupportedOperation.WindowsImageExportUnsupported	Windows images cannot be exported.

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Key APIs
DescribeKeyPairs

Last updated：2024-01-04 16:11:02

1. API Description

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

This API is used to query key pairs.

- A key pair is a pair of keys generated by an algorithm in which the public key is available to the public and the private key is available only to the user. You can use this API to query the public key but not the private key.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeKeyPairs.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
KeyIds.N	No	Array of String	Key pair ID(s) in the format of `skey-11112222` . This API supports using multiple IDs as filters at the same time. For more information on the format of this parameter, see the `id.N` section in API Introduction. You cannot specify `KeyIds` and `Filters` at the same time. You can log in to the console to query the key pair IDs.

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Filters.N	No	Array of Filter	Filters • `project-id` - Integer - Optional - Filter by project ID. To view the list of project IDs, you can go to Project Management, or call the `DescribeProject` API and look for `projectId` in the response. • `key-name` - String - Optional - Filter by key pair name. You cannot specify `KeyIds` and `Filters` at the same time.
Offset	No	Integer	Offset; default value: 0. For more information on `Offset` , see the corresponding sections in API Introduction. Number of results returned; default value: 20; maximum: 100. For more information on `Limit` , see the corresponding section in API Introduction.
Limit	No	Integer	Number of results returned; default value: 20; maximum: 100. For more information on `Limit` , see the corresponding section in API Introduction.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of key pairs meeting the filtering conditions.
KeyPairSet	Array of KeyPair	Detailed information on key pairs.
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 key pairs

This example shows you how to query the list of key pairs.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeKeyPairs
&Filters.0.Name=key-name
&Filters.0.Values.0=Tencent
&Offset=0
```

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```
&Limit=20
&<Common request parameters>
```

Output Example


```
{
"Response": {
"TotalCount": 1,
"KeyPairSet": [
{
"KeyId": "skey-mv9yzyjj",
"KeyName": "Tencent",
"Description": "",
"PublicKey": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAAAgQDP0Yw2T4itUKOJQIK69c1Asy1UO88
cxEbujR5Jbr0e/Ey1v4ZKAUzDnsBnFlf4hKPA1YvMB8RBYj4GcLtM7PrKnBNNram8rgl73X/klOO8oqKv
+J/XUA7KHH1Y6wcn1RTRTMdDHbGhW1q/UpfeylNTbf+wEIWhEfaL5FKQm4hqCw== skey_112168",
"AssociatedInstanceIds": [],
"CreatedTime": "2016-12-02T00:22:40Z"
}
],
"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
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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	`Filter`
InvalidKeyPair.LimitExceeded	The number of key pairs exceeds the limit.
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID has an invalid format. For example, `skey-1122` has an invalid `ID` length.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValueLimit	The number of parameter values exceeds the limit.
InvalidParameterValueOffset	Invalid parameter value: invalid `Offset` .
UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnsupportedOperation	Unsupported operation.

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CreateKeyPair

Last updated：2024-01-04 16:11:02

1. API Description

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

This API is used to create an `OpenSSH RSA` key pair, which you can use to log in to a `Linux` instance.

- You only need to specify a name, and the system will automatically create a key pair and return its `ID` and the public and private keys.
- The name of the key pair must be unique.
- You can save the private key to a file and use it as an authentication method for `SSH` .
- Tencent Cloud does not save users' private keys. Be sure to save it yourself.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateKeyPair.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
KeyName	Yes	String	Name of the key pair, which can contain numbers, letters, and underscores, with a maximum length of 25

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			characters.
ProjectId	Yes	Integer	The ID of the project to which the new key pair belongs. You can query the project IDs in two ways: • Query the project IDs in the project list. • Call `DescribeProject` and look for `projectId` in the response.
TagSpecification.N	No	Array of TagSpecification	Tag description list. This parameter is used to bind a tag to a key pair.

3. Output Parameters

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

4. Example

Example1 Creating a key pair

Input Example

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

{
"ProjectId": "0",
"KeyName": "Tencent"
}
```

Output Example

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```
{
"Response": {
"KeyPair": {
"KeyId": "skey-mv9yzyjj",
"KeyName": "Tencent",
"ProjectId": 0,
"PublicKey": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAAAgQDP0Yw2T4itUKOJQIK69c1Asy1UO88
cxEbujR5Jbr0e/Ey1v4ZKAUzDnsBnFlf4hKPA1YvMB8RBYj4GcLtM7PrKnBNNram8rgl73X/klOO8oqKv
+J/XUA7KHH1Y6wcn1RTRTMdDHbGhW1q/UpfeylNTbf+wEIWhEfaL5FKQm4hqCw== skey_112168",
"PrivateKey": "-----BEGIN RSA PRIVATE KEY-----\nMIICXgIBAAKBgQDP0Yw2T4itUKOJQIK69
c1Asy1UO88cxEbujR5Jbr0e/Ey1v4ZK\nAUzDnsBnFlf4hKPA1YvMB8RBYj4GcLtM7PrKnBNNram8rgl7
3X/klOO8oqKv+J/X\nUA7KHH1Y6wcn1RTRTMdDHbGhW1q/UpfeylNTbf+wEIWhEfaL5FKQm4hqCwIDAQA
B\nAoGBAJEvSu5SaCD02hs0F2C4Aln2E2/qjMoDEa7spcEVfUhdaNX8ZLvk5pUvnikm\nwfSb7a71QUIc
Fu66zKxBK4kVcirBRCR8nTAQbQ6AhXQYP+y6ihZ9Z/g6BBEeqCpV\nuGPmKnhdxdJ8Al2huEZKJFUQhKM
8XdP7dqn6yFDm0L2sTK6RAkEA9IbhP4/2CVSC\n6d8j5nj3ejPx25R3wc4G+st1tZn1O/TRqUknbVEvsx
ZC63bRjHiw086QIWr61L8f\nqQBLZ58DMwJBANmRv3aHVxv5sMlV0F3hD5ZgWEDIIjxD7oiBzU1rqvF6O
pTQc1cF\nrnwxAXDtYYJ75B8qQEL1ph/zIE5YW0hlfckCQQCyVTwpUyCopU3kqqxQBaDXKtMU\nxS6h1V
QZzBDIpMPJOj8+Ku/qNe+HuJCNkVY6EDtF/bv340GTrt+0LVbQ95MpAkEA\nxcvwUdTXB9LnuxKuHTsoD
aFHepW4MivcJvRC7njM7z4dFf+wbFP4/mUbF0xoUtVJ\nXl/uDjH/tpo1K6S+UEIcqQJAfLQywCQdZ/qO
Jn0PwxiOhwniikSnZuZPNSw8T+kg\n/oxijESOLAJBnt3S/g+D530Enjitvfc9mEB7mh0VmwWvPg==\n-
----END RSA PRIVATE KEY-----\n"
},
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```


5. Developer Resources

SDK

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

Command Line Interface

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- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.TagKeyReserved	The tag key specified in the request is reserved for the system.
InternalServerError	Internal error.
InvalidKeyPair.LimitExceeded	The number of key pairs exceeds the limit.
InvalidKeyPairName.Duplicate	Key pair name already exists.
InvalidKeyPairNameEmpty	The key name cannot be empty.
InvalidKeyPairNameIncludeIllegalChar	The key name contains invalid characters. Key names can only contain letters, numbers and underscores.
InvalidKeyPairNameTooLong	The key name cannot exceed 25 characters.
InvalidParameterValue	Incorrect parameter value.
InvalidProjectId.NotFound	Invalid project ID: the specified project ID does not exist.
LimitExceeded.TagResourceQuota	Exceeded the upper limit of resources bound to the tag.
MissingParameter	Missing parameter.

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AssociateInstancesKeyPairs

Last updated：2024-01-04 16:11:03

1. API Description

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

This API is used to associate key pairs with instances.

- If the public key of a key pair is written to the `SSH` configuration of the instance, users will be able to log in to the instance with the private key of the key pair.
- If the instance is already associated with a key, the old key will become invalid.
  If you currently use a password to log in, you will no longer be able to do so after you associate the instance with a key.
- Batch operations are supported. The maximum number of instances in each request is 100. If any instance in the request cannot be associated with a key, you will get an error code.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: AssociateInstancesKeyPairs.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of	Instance ID(s). The maximum number of instances in each request

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		String	is 100. You can obtain the available instance IDs in two ways: • Log in to the console to query the instance IDs. • Call DescribeInstances and look for `InstanceId` in the response.
KeyIds.N	Yes	Array of String	Key ID(s). The maximum number of key pairs in each request is 100. The key pair ID is in the format of `skey-3glfot13` . You can obtain the available key pair IDs in two ways: • Log in to the console to query the key pair IDs. • Call DescribeKeyPairs and look for `KeyId` in the response.
ForceStop	No	Boolean	Whether to force shut down a running instances. It is recommended to manually shut down a running instance before associating a key pair with it. Valid values: • TRUE: force shut down an instance after a normal shutdown fails. • FALSE: do not force shut down an instance after a normal shutdown fails. Default value: FALSE.

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 key pair to CVM

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=AssociateInstancesKeyPairs
&InstanceIds.0=ins-1e4r6y8i
&InstanceIds.1=ins-3e56fg78
&KeyIds.0=skey-4e5ty7i8
&<Common request parameters>
```

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Output Example

```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.

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InvalidInstanceId.NotFound	No instance found.
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID has an invalid format. For example, `skey-1122` has an invalid `ID` length.
InvalidKeyPairId.NotFound	Invalid key pair ID. The specified key pair ID does not exist.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.KeyPairNotSupported	The specified key does not support the operation.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation.InstanceOsWindows	The instance `ins-xxxxxx` with the `Xserver windows2012cndatacenterx86_64` operating system does not support this operation.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen

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	instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateRunning	Running instances do not support this operation.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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DisassociateInstancesKeyPairs

Last updated：2024-01-04 16:11:01

1. API Description

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

This API is used to unbind one or more key pairs from one or more instances.

- It only supports `STOPPED` Linux instances.
- After a key pair is disassociated from an instance, you can log in to the instance with password.
- If you did not set a password for the instance, you will not be able to log in via SSH after the unbinding. In this case, you can call ResetInstancesPassword to set a login password.
- Batch operations are supported. The maximum number of instances in each request is 100. If instances not available for the operation are selected, you will get an error code.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DisassociateInstancesKeyPairs.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID(s). The maximum number of instances in each request is 100.

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			You can obtain the available instance IDs in two ways: • Log in to the console to query the instance IDs. • Call DescribeInstances and look for `InstanceId` in the response.
KeyIds.N	Yes	Array of String	List of key pair IDs. The maximum number of key pairs in each request is 100. The key pair ID is in the format of `skey-11112222` . You can obtain the available key pair IDs in two ways: • Log in to the console to query the key pair IDs. • Call DescribeKeyPairs and look for `KeyId` in the response.
ForceStop	No	Boolean	Whether to force shut down a running instances. It is recommended to manually shut down a running instance before disassociating a key pair from it. Valid values: • TRUE: force shut down an instance after a normal shutdown fails. • FALSE: do not force shut down an instance after a normal shutdown fails. Default value: FALSE.

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 Disassociating a key pair from an instance

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DisassociateInstancesKeyPairs
&InstanceIds.0=ins-w34e5rl9
&KeyIds.0=skey-e3r6y7ji
&<Common request parameters>
```

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Output Example

```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID` . The specified instance `ID` has an invalid format. For example, `ins-1122`

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	has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID has an invalid format. For example, `skey-1122` has an invalid `ID` length.
InvalidKeyPairId.NotFound	Invalid key pair ID. The specified key pair ID does not exist.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnsupportedOperation.InstanceOsWindows	The instance `ins-xxxxxx` with the `Xserver windows2012cndatacenterx86_64` operating system does not support this operation.
UnsupportedOperation.InstanceStateBanning	This CVM is blocked. Please submit a ticket.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateRunning	Running instances do not support this operation.

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UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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DeleteKeyPairs

Last updated：2024-01-04 16:11:02

1. API Description

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

This API is used to delete the key pairs hosted in Tencent Cloud.

- You can delete multiple key pairs at the same time.
- A key pair used by an instance or image cannot be deleted. Therefore, you need to verify whether all the key pairs have been deleted successfully.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteKeyPairs.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
KeyIds.N	Yes	Array of String	Key ID(s). The maximum number of key pairs in each request is 100. You can obtain the available key pair IDs in two ways: • Log in to the console to query the key pair IDs. • Call DescribeKeyPairs and look for `KeyId` in the response.

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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 key pair

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DeleteKeyPairs
&KeyIds.0=skey-mv9yzyjj
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidKeyPair.LimitExceeded	The number of key pairs exceeds the limit.
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID has an invalid format. For example, `skey-1122` has an invalid `ID` length.
InvalidKeyPairId.NotFound	Invalid key pair ID. The specified key pair ID does not exist.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.KeyPairNotSupported	The specified key does not support the operation.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
MissingParameter	Missing parameter.

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ModifyKeyPairAttribute

Last updated：2024-01-04 16:11:01

1. API Description

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

This API is used to modify the attributes of key pairs.

- This API modifies the name and description of the key pair identified by the key pair ID.
- The name of the key pair must be unique.
- Key pair ID is the unique identifier of a key pair and cannot be modified.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyKeyPairAttribute.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
KeyId	Yes	String	Key pair ID in the format of `skey-xxxxxxxx` . You can obtain the available key pair IDs in two ways: • Log in to the console to query the key pair IDs. • Call DescribeKeyPairs and look for `KeyId` in the response.
KeyName	No	String	New key pair name, which can contain numbers, letters, and

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			underscores, with a maximum length of 25 characters.
Description	No	String	New key pair description. You can specify any name you like, but its length cannot exceed 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 Modifying the key pair name

This example shows you how to modify the key pair name.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ModifyKeyPairAttribute
&KeyId=skey-mv9yzyjj
&KeyName=Tencent
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

Example2 Modifying the key pair description

This example shows you how to modify the key pair description.

Input Example

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```
GET https://cvm.tencentcloudapi.com/?Action=ModifyKeyPairAttribute
&KeyId=skey-mv9yzyjj
&Description=Tencent
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "aea2227b-fbb7-4cc7-bf29-d49b2b6db97c"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.

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InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID has an invalid format. For example, `skey-1122` has an invalid `ID` length.
InvalidKeyPairId.NotFound	Invalid key pair ID. The specified key pair ID does not exist.
InvalidKeyPairName.Duplicate	Key pair name already exists.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.

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ImportKeyPair

Last updated：2024-01-04 16:11:01

1. API Description

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

This API is used to import key pairs.

- You can use this API to import key pairs to a user account, but the key pairs will not be automatically associated with any instance. You may use AssociasteInstancesKeyPair to associate key pairs with instances.
- You need to specify the names of the key pairs and the content of the public keys.
- If you only have private keys, you can convert them to public keys with the `SSL` tool before importing them.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ImportKeyPair.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
KeyName	Yes	String	Key pair name, which can contain numbers, letters, and underscores, with a maximum length of 25 characters.

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ProjectId	Yes	Integer	The project ID to which the key pair belongs after it is created. You can obtain the project ID in the following ways: • Check the project list in the Project management page. • Call the `DescribeProject` API and view the `projectId` in the response. If you want to use the default project, specify 0 for the parameter.
PublicKey	Yes	String	Content of the public key in the key pair in the `OpenSSH RSA` format.
TagSpecification.N	No	Array of TagSpecification	Tag description list. This parameter is used to bind a tag to a key pair.

3. Output Parameters

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

4. Example

Example1 Importing a key pair

Input Example

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

{
"ProjectId": "0",
```

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```
"KeyName": "operation_key",
"PublicKey": "ssh-rsa XXXXXXXXXXXX== skey_45071"
}
```

Output Example

```
{
"Response": {
"KeyId": "skey-4e5ty7i8",
"RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InternalServerError	Internal error.

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InvalidKeyPair.LimitExceeded	The number of key pairs exceeds the limit.
InvalidKeyPairName.Duplicate	Key pair name already exists.
InvalidKeyPairNameEmpty	The key name cannot be empty.
InvalidKeyPairNameIncludeIllegalChar	The key name contains invalid characters. Key names can only contain letters, numbers and underscores.
InvalidKeyPairNameTooLong	The key name cannot exceed 25 characters.
InvalidParameterValue	Incorrect parameter value.
InvalidProjectId.NotFound	Invalid project ID: the specified project ID does not exist.
InvalidPublicKey.Duplicate	Invalid public key: the specified key already exists.
InvalidPublicKey.Malformed	Invalid public key: the specified public key does not meet the `OpenSSH RSA` format requirements.
LimitExceeded.TagResourceQuota	Exceeded the upper limit of resources bound to the tag.
MissingParameter	Missing parameter.

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Security Group APIs
AssociateSecurityGroups

Last updated：2024-01-04 16:10:58

1. API Description

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

This API is used to associate security groups with specified instances.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: AssociateSecurityGroups.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupIds.N	Yes	Array of String	ID of the security group to be associated, such as `sg-efil73jd` . Only one security group can be associated.
InstanceIds.N	Yes	Array of String	ID of the instance bound in the format of ins-lesecurk. You can specify up to 100 instances in each request.

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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 Associating multiple instances with one security group

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=AssociateSecurityGroups
&InstanceIds.0=ins-2zvpghhc
&InstanceIds.1=ins-915zrb0p
&SecurityGroupIds.0=sg-9id31839
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "3385dcf2-e1f0-4ed8-a924-c296721ab65f"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.SecurityGroupActionFailed	Security group operation failed.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidSecurityGroupId.NotFound	The specified `security group ID` does not exist.
InvalidSgId.Malformed	The specified `security group ID` is in the wrong format. For example, `sg-ide32` has an invalid `instance ID` length.
LimitExceeded.AssociateUSGLimitExceeded	An instance can be bound with up to 5 security groups.
LimitExceeded.CvmsVifsPerSecGroupLimitExceeded	The CVM ENIs associated with the security group has exceeded the limit.
LimitExceeded.SingleUSGQuota	The number of security groups exceeds the quota limit.
MutexOperation.TaskRunning	An identical job is running.

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OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
SecGroupActionFailure	A general error occurred during the security group service API call.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.

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DisassociateSecurityGroups

Last updated：2024-01-04 16:10:57

1. API Description

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

This API is used to disassociate security groups from instances.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DisassociateSecurityGroups.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupIds.N	Yes	Array of String	ID of the security group to be disassociated, such as `sg-efil73jd` . Only one security group can be disassociated.
InstanceIds.N	Yes	Array of String	ID(s) of the instance(s) to be disassociated,such as `ins-lesecurk` . You can specify multiple instances.

3. Output Parameters

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

4. Example

Example1 Disassociating instances from security groups

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DisassociateSecurityGroups
&InstanceIds.0=ins-2zvpghhc
&InstanceIds.1=ins-915zrb0p
&SecurityGroupIds.0=sg-9id31839
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "3385dcf2-e1f0-4ed8-a924-c296721ab65f"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.SecurityGroupActionFailed	Security group operation failed.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidSecurityGroupId.NotFound	The specified `security group ID` does not exist.
InvalidSgId.Malformed	The specified `security group ID` is in the wrong format. For example, `sg-ide32` has an invalid `instance ID` length.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
SecGroupActionFailure	A general error occurred during the security group service API call.
UnsupportedOperation	Unsupported operation.

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Network APIs
DescribeInternetChargeTypeConfigs

Last updated：2024-01-04 16:11:01

1. API Description

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

This API is used to query the network billing methods.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeInternetChargeTypeConfigs.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
InternetChargeTypeConfigSet	Array of InternetChargeTypeConfig	List of network billing methods.

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

4. Example

Example1 Querying network billing modes

This example shows you how to query the list of all network billing modes and select one for the CVM created using the API.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeInternetChargeTypeConfigs
&<Common request parameters>
```

Output Example

```
{
"Response": {
"InternetChargeTypeConfigSet": [
{
"InternetChargeType": "BANDWIDTH_PREPAID",
"Description": "Bill by monthly bandwidth subscription"
},
{
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"Description": "Bill by traffic"
},
{
"InternetChargeType": "BANDWIDTH_POSTPAID_BY_HOUR",
"Description": "Bill by bandwidth usage period"
},
{
"InternetChargeType": "BANDWIDTH_PACKAGE",
"Description": "Bill by bandwidth package"
}
],
"RequestId": "c2abdac4-ea7b-4653-b07c-87cc303fabf0"
}
}
```

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5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
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Command Line Interface

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6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

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InquiryPriceResetInstancesInternetMaxBandwidth

Last updated：2024-01-04 16:11:00

1. API Description

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

This API is used to query the price for upgrading the public bandwidth cap of an instance.

- The allowed bandwidth cap varies for different models. For details, see Purchasing Network Bandwidth.
- For bandwidth billed by the `TRAFFIC_POSTPAID_BY_HOUR` method, changing the bandwidth cap through this API takes effect in real time. You can increase or reduce bandwidth within applicable limits.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: InquiryPriceResetInstancesInternetMaxBandwidth.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

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Parameter Name	Required	Type	Description
InstanceIds.N	Yes	Array of String	Instance ID(s). To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response. The maximum number of instances in each request is 100. When changing the bandwidth of instances with `BANDWIDTH_PREPAID` or `BANDWIDTH_POSTPAID_BY_HOUR` as the network billing method, you can only specify one instance at a time.
InternetAccessible	Yes	InternetAccessible	Configuration of public network egress bandwidth. The maximum bandwidth varies among different models. For more information, see the documentation on bandwidth limits. Currently only the `InternetMaxBandwidthOut` parameter is supported.
StartTime	No	String	Date from which the new bandwidth takes effect. Format: `YYYY-MM-DD` , such as `2016-10-30` . The starting date cannot be earlier than the current date. If the starting date is the current date, the new bandwidth takes effect immediately. This parameter is only valid for prepaid bandwidth. If you specify the parameter for bandwidth with other network billing methods, an error code will be returned.
EndTime	No	String	Date until which the new bandwidth is effective. Format: `YYYY-MM-DD` , such as `2016-10-30` . The validity period of the new bandwidth covers the end date. The end date cannot be later than the expiration date of a prepaid instance. You can query the expiration time of an instance by calling `DescribeInstances` and looking for `ExpiredTime` in the response. This parameter is only valid for prepaid bandwidth. If you specify the parameter for bandwidth with other network billing methods, an error code will be returned.

3. Output Parameters

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

4. Example

Example1 Querying the price of a pay-as-you-go instance with a new bandwidth cap

This example shows you how to query the price for changing the bandwidth of the instance “ins-fd8spnmq” to 20 Mbps.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=InquiryPriceResetInstancesInternetMax
Bandwidth
&InstanceIds.0=ins-fd8spnmq
&InternetAccessible.InternetMaxBandwidthOut=20
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Price": {
"BandwidthPrice": {
"UnitPrice": 0.8,
"ChargeUnit": "GB"
}
},
"RequestId": "700864b9-85da-4cb9-bc80-d99eaf9fa047"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InquiryPriceFailed	Price query failed.
FailedOperation.NotFoundEIP	This instance does not bind an EIP.
InternalError.TradeUnknownError	Internal error.
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter	A parameter error occurred.

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Error Code	Description
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
InvalidPermission	This operation is not supported for the account.
MissingParameter	Missing parameter.
UnsupportedOperation.BandwidthPackageIdNotSupported	The specified instance or network cannot use the bandwidth package.

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ResetInstancesInternetMaxBandwidth

Last updated：2024-01-04 16:11:00

1. API Description

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

This API is used to change the public bandwidth cap of an instance.

- The allowed bandwidth cap varies for different models. For details, see Purchasing Network Bandwidth.
- For bandwidth billed by the `TRAFFIC_POSTPAID_BY_HOUR` method, changing the bandwidth cap through this API takes effect in real time. Users can increase or reduce bandwidth within applicable limits.

A maximum of 10 requests can be initiated per second for this API.

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResetInstancesInternetMaxBandwidth.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.

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Parameter Name	Required	Type	Description
InstanceIds.N	Yes	Array of String	Instance ID(s). To obtain the instance IDs, you can call `DescribeInstances` and look for `InstanceId` in the response. The maximum number of instances in each request is 100. When changing the bandwidth of instances with `BANDWIDTH_PREPAID` or `BANDWIDTH_POSTPAID_BY_HOUR` as the network billing method, you can only specify one instance at a time.
InternetAccessible	Yes	InternetAccessible	Configuration of public network egress bandwidth. The maximum bandwidth varies among different models. For more information, see the documentation on bandwidth limits. Currently only the `InternetMaxBandwidthOut` parameter is supported.
StartTime	No	String	Date from which the new bandwidth takes effect. Format: `YYYY-MM-DD` , such as `2016-10-30` . The starting date cannot be earlier than the current date. If the starting date is the current date, the new bandwidth takes effect immediately. This parameter is only valid for prepaid bandwidth. If you specify the parameter for bandwidth with other network billing methods, an error code will be returned.
EndTime	No	String	Date until which the new bandwidth is effective. Format: `YYYY-MM-DD` , such as `2016-10-30` . The validity period of the new bandwidth covers the end date. The end date cannot be later than the expiration date of a prepaid instance. You can query the expiration time of an instance by calling `DescribeInstances` and looking for `ExpiredTime` in the response. This parameter is only valid for prepaid bandwidth. If you specify the parameter for bandwidth with other network billing methods, an error code will be returned.

3. Output Parameters

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

4. Example

Example1 Modifying the public network bandwidth cap of an instance

This example shows you how to modify the public network bandwidth cap of an instance.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ResetInstancesInternetMaxBandwidth
&InstanceIds.0=ins-r8hr2upy
&InternetAccessible.InternetMaxBandwidthOut=10
&StartTime=2017-03-15
&EndTime=2017-03-16
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.NotFoundEIP	This instance does not bind an EIP.
InternalError.TradeUnknownError	Internal error.
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID`. The specified instance `ID` has an invalid format. For example, `ins-1122` has an invalid `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.BandwidthPackageIdMalformed	The shared bandwidth package ID is invalid. Please provide a standard shared bandwidth package ID in the format similar to bwp-xxxxxxxx. In this format, the letter x stands for a lowercase character or a number.

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Error Code	Description
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a valid ID, such as ins-xxxxxxxx (“x” represents a lower-case letter or a number).
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
InvalidPermission	This operation is not supported for the account.
MissingParameter	Missing parameter.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnsupportedOperation.BandwidthPackageIdNotSupported	The specified instance or network cannot use the bandwidth package.
UnsupportedOperation.EdgeZoneInstance	
UnsupportedOperation.InstanceChargeType	This instance billing mode does not support the operation.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateBanning	This CVM is blocked. Please submit a ticket.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated

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Error Code	Description
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.

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ModifyInstancesVpcAttribute

Last updated：2024-01-04 16:11:00

1. API Description

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

This API is used to modify the VPC attributes of an instance, such as the VPC IP address.

- This action will shut down the instance, and restart it after the modification is completed.
- To migrate an instance to another VPC/subnet, specify the new VPC and subnet directly. Make sure that the instance to migrate is not bound to an ENI or CLB instances.
- You can use the API DescribeInstances to query the operation result. If the `LatestOperationState` in the response is `SUCCESS`, the operation is successful.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyInstancesVpcAttribute.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID(s). To obtain the instance IDs, you can call `DescribeInstances` and look for

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			`InstanceId` in the response.
VirtualPrivateCloud	Yes	VirtualPrivateCloud	VPC configurations. You can use this parameter to specify the VPC ID, subnet ID, VPC IP, etc. If the specified VPC ID and subnet ID (the subnet must be in the same availability zone as the instance) are different from the VPC where the specified instance resides, the instance will be migrated to a subnet of the specified VPC. You can use `PrivateIpAddresses` to specify the VPC subnet IP. If you want to specify the subnet IP, you will need to specify a subnet IP for each of the specified instances, and each `InstanceIds` will match a `PrivateIpAddresses` . If `PrivateIpAddresses` is not specified, the VPC subnet IP will be assigned randomly.
ForceStop	No	Boolean	Whether to force shut down a running instances. Default value: TRUE.
ReserveHostName	No	Boolean	Whether to keep the host name. Default value: FALSE.

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 Migrating instances to a VPC and specifying the subnet and IP

This example shows you how to migrate the `r8hr2upy` and `5d8a23rs` instances to the `dcs9x3gz` subnet of the `1urkhbj4` VPC and specify 10.0.0.18 as the private IP of the `r8hr2upy` instance and 10.0.0.19 as that of the `5d8a23rs` instance.

Input Example

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

{
"VirtualPrivateCloud": {
"SubnetId": "subnet-dcs9x3gz",
"VpcId": "vpc-1urkhbj4",
"PrivateIpAddresses": [
"10.0.0.19",
"10.0.0.18"
]
},
"InstanceIds": [
"ins-5d8a23rs",
"ins-r8hr2upy"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "3c14def19-cfes-470e-b241-90787u6jf5uj"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET

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- Tencent Cloud SDK 3.0 for C++

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6. Error Code

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

Error Code	Description
EniNotAllowedChangeSubnet	ENIs do not support changing subnets.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceState	This operation cannot be performed due to the current instance status.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.IPAddressMalformed	Invalid IP format
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidIpFormat	Invalid IP address.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.MustDhcpEnabledVpc	The parameter value must be a DHCP-enabled VPC.
InvalidParameterValue.SubnetIdMalformed	Invalid subnet ID. Please provide a subnet ID in the format of subnet-xxxxxxxx, where “x” can be a lowercase letter or number.
InvalidParameterValue.VpcIdMalformed	The VPC ID `xxx` is invalid. Please provide a VPC ID in the format of vpc-xxxxxxxx, where “x” can be a lowercase letter or number.
MutexOperation.TaskRunning	An identical job is running.

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OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnsupportedOperation.EdgeZoneInstance	
UnsupportedOperation.ElasticNetworkInterface	An ENI is bound to the CVM. Please unbind the ENI from the CVM before switching to VPC.
UnsupportedOperation.IPv6NotSupportVpcMigrate	IPv6 instances cannot be migrated from Classiclink to VPC.
UnsupportedOperation.InstanceChargeType	This instance billing mode does not support the operation.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateBanning	This CVM is blocked. Please submit a ticket.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescue mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for the frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is isolated
UnsupportedOperation.InstanceStatePending	The instances are being created, and this operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, and this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are not available for this operation.

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UnsupportedOperation.InstanceStateRunning	Running instances do not support this operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, and this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support this operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, and this operation is not supported.
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, and the operation is not supported.
UnsupportedOperation.ModifyVPCWithCLB	An instance bound with CLB does not support modifying its VPC attributes.
UnsupportedOperation.ModifyVPCWithClassLink	This instance is configured with ClassLink. Please cancel the association and continue.
UnsupportedOperation.NoVpcNetwork	A physical network is not supported by this instance.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **no charges when shut down** feature.
VpcAddrNotInSubNet	The VPC IP address is not in the subnet.
VpcIpIsUsed	The VPC IP address is already occupied.

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Instance Launch Template APIs DescribeLaunchTemplates

Last updated：2024-01-04 16:11:03

1. API Description

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

This API is used to query one or more instance launch 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: DescribeLaunchTemplates.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
LaunchTemplateIds.N	No	Array of String	Instance launch template ID. ID of one or more instance launch templates. If not specified, all templates of the user will be displayed.
Filters.N	No	Array of Filter	Filter by [**LaunchTemplateName**]. Type: String Optional

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			The maximum number of `Filters` in each request is 10. The upper limit for `Filter.Values` is 5. This parameter cannot specify `LaunchTemplateIds` and `Filters` at the same time.
Offset	No	Integer	The offset. Default value: 0. For more information on `Offset`, see the relevant sections in API Introduction.
Limit	No	Integer	The number of returned results. Default value: 20. Maximum value: 100. For more information on `Limit`, see the relevant sections in API Introduction.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instance templates. Note: This field may return `null`, indicating that no valid values can be obtained.
LaunchTemplateSet	Array of LaunchTemplateInfo	List of instance 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 an instance launch template

Input Example

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

{
"LaunchTemplateIds": [
```

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```
"lt-q9t8j8eg"
]
}
```

Output Example

```
{
"Response": {
"TotalCount": 1,
"LaunchTemplateSet": [
{
"LatestVersionNumber": 12,
"LaunchTemplateId": "lt-q9t8j8eg",
"LaunchTemplateName": "Not named foo\"'\"'''\"\"",
"DefaultVersionNumber": 5,
"LaunchTemplateVersionCount": 8,
"CreatedBy": "251009920",
"CreationTime": "2020-12-16T08:05:02Z"
}
],
"RequestId": "b2d70642-c69a-4115-ae4e-f6ddade68fea"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	`Filter`
InvalidParameter	A parameter error occurred.
InvalidParameterValue.InvalidLaunchTemplateName	Incorrect format of instance launch template name.
InvalidParameterValue.LaunchTemplateIdMalformed	Incorrect format of instance launch template ID.
InvalidParameterValue.LaunchTemplateIdNotExisted	The instance launch template ID does not exist.
InvalidParameterValue.LaunchTemplateIdVerNotExisted	The combination of the template and the version ID does not exist.
InvalidParameterValue.LaunchTemplateNotFound	The instance launch template is not found.
InvalidParameterValue.LaunchTemplateVersion	Invalid instance launch template version number.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

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ModifyLaunchTemplateDefaultVersion

Last updated：2024-01-04 16:11:03

1. API Description

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

This API is used to modify the default version of the instance launch 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: ModifyLaunchTemplateDefaultVersion.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
LaunchTemplateId	Yes	String	The launch template ID
DefaultVersion	Yes	Integer	The number of the version that you want to set as the default version

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Modifying the default version of the instance launch template

This example sets the Version 2 of the instance launch template `lt-34vaef8fe` as the default version.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=ModifyLaunchTemplateDefaultVersion
&LaunchTemplateId=lt-34vaef8fe
&DefaultVersion=2
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "9b4ad85f-1657-4445-111d-3c0a9fbec311"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LaunchTemplateIdMalformed	Incorrect format of instance launch template ID.
InvalidParameterValue.LaunchTemplateIdNotExisted	The instance launch template ID does not exist.
InvalidParameterValue.LaunchTemplateIdVerNotExisted	The combination of the template and the version ID does not exist.
InvalidParameterValue.LaunchTemplateIdVerSetAlready	The specified instance launch template ID doesn't exist.
InvalidParameterValue.LaunchTemplateNotFound	The instance launch template is not found.
InvalidParameterValue.LaunchTemplateVersion	Invalid instance launch template version number.
MissingParameter	Missing parameter.
UnknownParameter	Unknown parameter error.

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DescribeLaunchTemplateVersions

Last updated：2024-01-04 16:11:04

1. API Description

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

This API is used to query the information of instance launch template 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: DescribeLaunchTemplateVersions.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
LaunchTemplateId	Yes	String	The launch template ID
LaunchTemplateVersions.N	No	Array of Integer	List of instance launch templates.
MinVersion	No	Integer	The minimum version number specified, which defaults to 0.
MaxVersion	No	Integer	The maximum version number specified, which defaults to 30.

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Offset	No	Integer	The offset. Default value: 0. For more information on `Offset` , see the relevant sections in API Introduction.
Limit	No	Integer	The number of returned results. Default value: 20. Maximum value: 100. For more information on `Limit` , see the relevant sections in API Introduction.
DefaultVersion	No	Boolean	Specify whether to query the default version. This parameter and `LaunchTemplateVersions` cannot be specified at the same time.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of instance launch templates.
LaunchTemplateVersionSet	Array of LaunchTemplateVersionInfo	Set of instance launch template versions.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying instance launch template versions

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DescribeLaunchTemplateVersions
&LaunchTemplateId=lt-b8v1kcyq
&<Common request parameters>
```

Output Example

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

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```
"LaunchTemplateVersionSet": [
{
"LaunchTemplateVersion": 1,
"LaunchTemplateVersionData": {
"VirtualPrivateCloud": {
"SubnetId": "subnet-he88kvqu",
"AsVpcGateway": false,
"Ipv6AddressCount": 0,
"VpcId": "vpc-dcteo7jd"
},
"InstanceCount": 1,
"Placement": {
"ProjectId": 0,
"Zone": "ap-guangzhou-2"
},
"SystemDisk": {
"DiskSize": 50,
"DiskType": "CLOUD_PREMIUM"
},
"ImageId": "img-8toqc6s3",
"InstanceChargeType": "POSTPAID_BY_HOUR",
"EnhancedService": {
"SecurityService": {
"Enabled": true
},
"MonitorService": {
"Enabled": true
}
},
"SecurityGroupIds": [
"sg-rf6ogz49"
],
"InternetAccessible": {
"PublicIpAssigned": true,
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": 100
},
"InstanceName": "lt_test",
"InstanceType": "S1.SMALL2",
"DataDisks": [
{
"Encrypt": false,
"DeleteWithInstance": true,
"KmsKeyId": "",
"DiskSize": 50,
"DiskType": "CLOUD_PREMIUM"
},
```


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```
{
"Encrypt": true,
"DeleteWithInstance": true,
"KmsKeyId": "",
"DiskSize": 60,
"DiskType": "CLOUD_PREMIUM"
}
]
},
"CreationTime": "2020-12-17T01:54:31Z",
"LaunchTemplateId": "lt-b8v1kcyq",
"IsDefaultVersion": true,
"LaunchTemplateVersionDescription": "",
"CreatedBy": "251009920"
}
],
"RequestId": "b2da6ace-add1-48dc-ae73-6fc1eed95f1d"
}
}
```


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
InternalError	Internal error.
InternalServerError	Internal error.
InvalidParameter	A parameter error occurred.
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LaunchTemplateIdMalformed	Incorrect format of instance launch template ID.
InvalidParameterValue.LaunchTemplateIdNotExisted	The instance launch template ID does not exist.
InvalidParameterValue.LaunchTemplateIdVerNotExisted	The combination of the template and the version ID does not exist.
InvalidParameterValue.LaunchTemplateNotFound	The instance launch template is not found.
InvalidParameterValue.LaunchTemplateVersion	Invalid instance launch template version number.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.NotSupported	Unsupported operation.
MissingParameter	Missing parameter.
UnauthorizedOperation	
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) is valid.
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Multi-Factor Authentication (MFA) exists.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

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DeleteLaunchTemplateVersions

Last updated：2024-01-04 16:11:04

1. API Description

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

This API is used to delete one or more instance launch template 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: DeleteLaunchTemplateVersions.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
LaunchTemplateId	Yes	String	The launch template ID
LaunchTemplateVersions.N	Yes	Array of Integer	List of instance launch template versions.

3. Output Parameters

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

4. Example

Example1 Deletes one or more instance launch template versions

This example deletes version 2 and 3 of the instance launch template `lt-34vaef8fe` .

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DeleteLaunchTemplateVersions
&LaunchTemplateId=lt-34vaef8fe
&LaunchTemplateVersions.0=2
&LaunchTemplateVersions.1=3
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "9b4ad85f-1657-4445-111d-3c0a9fbec311"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LaunchTemplateDefaultVersion	The default launch template version cannot be operated.
InvalidParameterValue.LaunchTemplateIdMalformed	Incorrect format of instance launch template ID.
InvalidParameterValue.LaunchTemplateIdNotExisted	The instance launch template ID does not exist.
InvalidParameterValue.LaunchTemplateIdVerNotExisted	The combination of the template and the version ID does not exist.
InvalidParameterValue.LaunchTemplateNotFound	The instance launch template is not found.
InvalidParameterValue.LaunchTemplateVersion	Invalid instance launch template version number.
MissingParameter	Missing parameter.
UnknownParameter	Unknown parameter error.

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DeleteLaunchTemplate

Last updated：2024-01-04 16:11:04

1. API Description

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

This API is used to delete an instance launch 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: DeleteLaunchTemplate.
Version	Yes	String	Common Params. The value used for this API: 2017-03-12.
Region	No	String	Common Params. This parameter is not required for this API.
LaunchTemplateId	Yes	String	The launch 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.

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4. Example

Example1 Deleting an instance launch template

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=DeleteLaunchTemplate
&LaunchTemplateId=lt-34vaef8fe
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "9b4ad85f-1657-4445-111d-3c0a9fbec311"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
AuthFailure.CamRoleNameAuthenticateFailed	Role name authentication failed.
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LaunchTemplateIdMalformed	Incorrect format of instance launch template ID.
InvalidParameterValue.LaunchTemplateIdNotExisted	The instance launch template ID does not exist.
InvalidParameterValue.LaunchTemplateNotFound	The instance launch template is not found.

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CreateLaunchTemplateVersion

Last updated：2024-01-04 16:11:04

1. API Description

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

This API is used to create an instance launch template based on the specified template ID and the corresponding template version number. The default version number will be used when no template version numbers are specified. Each instance launch template can have up to 30 version numbers.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The va used for this API: CreateLaunchTemplateV
Version	Yes	String	Common Params. The va used for this API: 2017-0
Region	No	String	Common Params. This parameter is not requirec this API.
Placement	Yes	Placement	Location of the instance. can use this parameter tc specify the attributes of tl instance, such as its avai

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			zone, project, and CDH (dedicated CVMs)
LaunchTemplateId	Yes	String	Instance launch template This parameter is used a basis for creating new ter versions.
LaunchTemplateVersion	No	Integer	This parameter, when sp is used to create instance launch templates. If this parameter is not specifie default version will be use
LaunchTemplateVersionDescription	No	String	Description of instance la template versions. This parameter can contain 2- characters.
InstanceType	No	String	The instance model. Diffe resource specifications a specified for different inst models. • To view specific value `PREPAID` or `POSTPAID_BY_HOUR` instances, you can call DescribeInstanceTypeCo or refer to Instance Types this parameter is not spe the system will specify th default model according t dynamic resource sales i current region. • For `CDHPAID` insta the value of this paramete the format of `CDH_XCXC` based on the number of C cores and memory capac For example, if you want create a CDH instance w single-core CPU and 1 G memory, you need to spe this parameter as `CDH_1C1G` .

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ImageId	No	String	The image ID in the forma `img-xxx` . There are f types of images: • Public images • Custom images • Shared images • Marketplace images (Chinese mainland only) To check the image ID: • For public images, cu images, and shared imag to the console. For marke images, go to Cloud Marketplace. • Call DescribeImages, in `InstanceType` to retrieve the list of images supported by the current and then find the `Image` in the response.
SystemDisk	No	SystemDisk	System disk configuratio instance. If this paramete specified, the default valu be used.
DataDisks.N	No	Array of DataDisk	The configuration informa instance data disks. If thi parameter is not specifie data disk will be purchas default. When purchasing can specify 21 data disks which can contain at mos LOCAL_BASIC or LOCAL_SSD data disk, a most 20 CLOUD_BASIC CLOUD_PREMIUM, or CLOUD_SSD data disks
VirtualPrivateCloud	No	VirtualPrivateCloud	Configuration information VPC. This parameter is u specify VPC ID and subn etc. If this parameter is n specified, the classic net

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			used by default. If a VPC specified in this paramete indicates the primary EN each instance. The value parameter InstanceCoun be same as the number c IPs, which cannot be gre than 20.
InternetAccessible	No	InternetAccessible	Configuration of public ne bandwidth. If this parame not specified, 0 Mbps wil used by default.
InstanceCount	No	Integer	Number of instances to b purchased. Value range f monthly-subscribed insta [1, 300]. Value range for as-you-go instances: [1, Default value: 1. The spe number of instances to b purchased cannot excee remaining quota allowed user. For more informatic quota, see CVM instance Purchase Limits.
InstanceName	No	String	Instance name to be disp • If this parameter is no specified, "Unnamed" wil displayed by default. • If you purchase multip instances at the same tim specify a pattern string `{R:x}` , numbers `[x x+n-1]` will be generat where `n` represents th number of instances purchased. For example, specify a pattern string, `server_{R:3}` . If yo purchase 1 instance, the instance will be named `server_3` ; if you purc 2, they will be named `server_3` and

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			`server_4` . You can s multiple pattern strings in format of `{R:x}` . • If you purchase multip instances at the same tim do not specify a pattern s the instance names will b suffixed by `1, 2...n` where `n` represents th number of instances purchased. For example, purchase 2 instances an instance name body is `server_` , the instanc names will be `server_` and `server_2` . • This parameter can c up to 60 characters, inclu the pattern string.
LoginSettings	No	LoginSettings	Login settings of the insta You can use this parame set the login method, pas and key of the instance o the login settings of the o image. By default, a rand password will be generat sent to you via the Messa Center.
SecurityGroupIds.N	No	Array of String	Security groups to which instance belongs. To obt security group IDs, you c DescribeSecurityGroups look for the `sgId` field response. If this paramet not specified, the instanc be associated with defau security groups.
EnhancedService	No	EnhancedService	Enhanced service. You c this parameter to specify whether to enable servic such as Anti-DDoS and C Monitor. If this parameter

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			specified, Cloud Monitor Anti-DDoS are enabled fo public images by default. However, for custom ima and images from the marketplace, Anti-DDoS Cloud Monitor are not en by default. The original se in the image will be retair
ClientToken	No	String	A unique string supplied client to ensure that the r is idempotent. Its maximu length is 64 ASCII charac this parameter is not spe the idempotency of the re cannot be guaranteed.
HostName	No	String	Host name of the CVM. • Dots (.) or hyphens (-) cannot be the start or enc host name or appear consecutively in a host na • For Windows instance host name must be 2-15 characters long and can uppercase and lowercase letters, numbers, and hyp (-). It cannot contain dots contain only numbers. • For other instances, s Linux instances, the host must be 2-60 characters supports multiple dots (.) allows uppercase and lowercase letters, numbe hyphens (-) between any dots (.).
ActionTimer	No	ActionTimer	Scheduled tasks. You ca this parameter to specify scheduled tasks for the instance. Only scheduled termination is supported.
DisasterRecoverGroupIds.N	No	Array of String	Placement group ID. You

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			only specify one.
TagSpecification.N	No	Array of TagSpecification	The tag description list. T parameter is used to binc to a resource instance. A can only be bound to CVI instances.
InstanceMarketOptions	No	InstanceMarketOptionsRequest	Market options of the inst such as parameters relat spot instances. This para is required for spot instar
UserData	No	String	User data provided to the instance. This parameter to be encoded in base64 with the maximum size of For more information on I get the value of this para see the commands you n execute on startup for Wi or Linux.
DryRun	No	Boolean	Whether the request is a only. `true` : dry run only. Th request will not create instance(s). A dry run car check whether all the req parameters are specified whether the request form right, whether the reques exceeds service limits, ar whether the specified CV available. If the dry run fails, the corresponding error code be returned. If the dry run succeeds, tl RequestId will be returne `false` (default value) a normal request and cre instance(s) if all the requirements are met.
CamRoleName	No	String	CAM role name, which ca

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			obtained from the `role` field in the response of th `DescribeRoleList`
HpcClusterId	No	String	HPC cluster ID. The HPC cluster must and can only specified for a high-performance computing instance.
InstanceChargeType	No	String	Instance billing mode. Va values: • `PREPAID` : monthly subscription • `POSTPAID_BY_HOU` pay-as-you-go on an hou basis • `CDHPAID` : billed or associated CDH instance • `SPOTPAID` : spot instances. Default value: `POSTPAID_BY_HOUR`
InstanceChargePrepaid	No	InstanceChargePrepaid	Details of the monthly subscription, including th purchase period, auto-re It is required if the `InstanceChargeTyp` `PREPAID` .
DisableApiTermination	No	Boolean	Whether the termination protection is enabled. Va • `TRUE` : Enable insta protection, which means this instance can not be c by an API action. • `FALSE` : Do not ena instance protection. Default value: `FALSE` .

3. Output Parameters

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Parameter Name	Type	Description
LaunchTemplateVersionNumber	Integer	Version number of the new instance launch template.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an instance launch template version

This example shows you how to create a new launch template version in Guangzhou Zone 1.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=CreateLaunchTemplateVersion
&Placement.Zone=ap-guangzhou-1
&LaunchTemplateId=lt-lobxe2yo
&<Common request parameters>
```

Output Example

```
{
"Response": {
"LaunchTemplateVersionNumber": 7,
"RequestId": "9b4ad85f-1657-4445-111d-3c0a9fbec309"
}
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure.CamRoleNameAuthenticateFailed	Role name authentication failed.
FailedOperation.DisasterRecoverGroupNotFound	The specified spread placement group does not exist.
FailedOperation.InquiryPriceFailed	Price query failed.
FailedOperation.TagKeyReserved	The tag key specified in the request is reserved for the system.
InternalError.TradeUnknownError	Internal error.
InvalidClientToken.TooLong	The specified ClientToken exceeds the maximum length of 64 bytes.
InvalidHostId.Malformed	Invalid CDH `ID` . The specified CDH `ID` has an invalid format. For example, `host-1122` has an invalid `ID` length.
InvalidHostId.NotFound	The specified HostId does not exist, or does not belong to your account.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidInstanceName.TooLong	The specified InstanceName exceeds the maximum length of 60 bytes.
InvalidInstanceType.Malformed	The specified `InstanceType`

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	parameter has an invalid format.
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameter.InvalidIpFormat	Invalid VPC IP address format.
InvalidParameter.PasswordNotSupported	Setting login password is not supported.
InvalidParameter.SnapshotNotFound	The specified snapshot does not exist.
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CloudSsdDataDiskSizeTooSmall	The minimum capacity of a SSD data disk is 100 GB.
InvalidParameterValue.IllegalHostName	The value of HostName is invalid.
InvalidParameterValue.InstanceTypeNotSupportHpcCluster	This type of instances cannot be added to the HPC cluster.
InvalidParameterValue.InvalidImageState	The image has another ongoing task. Please check and try again later.
InvalidParameterValue.InvalidIpFormat	Invalid IP address.
InvalidParameterValue.InvalidLaunchTemplateVersionDescription	Incorrect format of instance launch template version description.
InvalidParameterValue.InvalidUserDataFormat	Incorrect UserData format. Use the Base64-encoded format.
InvalidParameterValue.LaunchTemplateIdMalformed	Incorrect format of instance launch template ID.
InvalidParameterValue.LaunchTemplateIdNotExisted	The instance launch template ID does not exist.
InvalidParameterValue.LaunchTemplateIdVerNotExisted	The combination of the template and the version ID does not exist.
InvalidParameterValue.LaunchTemplateNotFound	The instance launch template is not found.
InvalidParameterValue.LaunchTemplateVersion	Invalid instance launch template version number.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds

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	the limit.
InvalidParameterValue.MustDhcpEnabledVpc	The parameter value must be a DHCP-enabled VPC.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
InvalidParameterValue.SnapshotIdMalformed	Invalid snapshot ID. Provide a snapshot ID in the format of snap-xxxxxxxx, where the letter x refers to lowercase letter or number.
InvalidParameterValue.SubnetNotExist	Creation failed: the subnet does not exist. Please specify another subnet.
InvalidParameterValue.ThreadPerCoreValue	Invalid thread count per core.
InvalidParameterValue.VpcIdZoneIdNotMatch	The VPC and instance must be in the same availability zone.
InvalidParameterValue.VpcNotSupportIpv6Address	This VPC does not support the IPv6 addresses.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
InvalidPassword	Invalid password. The specified password does not meet the password requirements. For example, the password length does not meet the requirements.
InvalidPeriod	Invalid period. Valid values: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]; unit: month.
InvalidPermission	This operation is not supported for the account.
InvalidProjectId.NotFound	Invalid project ID: the specified project ID does not exist.
InvalidSecurityGroupId.NotFound	The specified `security group ID` does not exist.
InvalidZone.MismatchRegion	The specified `zone` does not exist.
LimitExceeded.InstanceQuota	You are short of the instance quota.

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LimitExceeded.LaunchTemplateQuota	The number of instance launch templates exceeds the limit.
LimitExceeded.LaunchTemplateVersionQuota	The number of instance launch template versions exceeds the limit.
LimitExceeded.SingleUSGQuota	The number of security groups exceeds the quota limit.
LimitExceeded.SpotQuota	The spot instance offerings are out of stock.
LimitExceeded.UserSpotQuota	You are short of the spot instance quota.
LimitExceeded.VpcSubnetNum	Insufficient subnet IPs.
MissingParameter	Missing parameter.
MissingParameter.DPDKInstanceTypeRequiredVPC	The DPDK instance requires a VPC.
MissingParameter.MonitorService	The instance type must have Cloud Monitor enabled.
ResourceInsufficient.CloudDiskSoldOut	The specified cloud disk has been sold out.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
ResourceInsufficient.DisasterRecoverGroupCvmQuota	The number of instances exceeded the quota limit of spread placement groups.
ResourceInsufficient.SpecifiedInstanceType	The specified instance type is insufficient.
ResourceNotFound.HpcCluster	The HPC cluster does not exist.
ResourceNotFound.KeyPairNotFound	
ResourceNotFound.NoDefaultCbs	No default CBS resources are available.
ResourceNotFound.NoDefaultCbsWithReason	No default CBS resources are available.
ResourceUnavailable.InstanceType	This instance type is unavailable in the availability zone.
ResourcesSoldOut.EipInsufficient	The public IP has been sold out.
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.

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UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BandwidthPackageIdNotSupported	The specified instance or network cannot use the bandwidth package.
UnsupportedOperation.InvalidDisk	The specified disk is not supported.
UnsupportedOperation.KeyPairUnsupportedWindows	Key-pair login is not available to Windows instances.
UnsupportedOperation.NoInstanceTypeSupportSpot	This instance type does not support spot instances.
UnsupportedOperation.OnlyForPrepaidAccount	Only a prepaid account supports this operation.
VpcAddrNotInSubNet	The VPC IP address is not in the subnet.
VpcIpIsUsed	The VPC IP address is already occupied.

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CreateLaunchTemplate

Last updated：2022-02-28 16:02:21

1. API Description

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

This API is used to create an instance launch template.

An instance launch template contains the configuration information required to create an instance, including instance type, data/system disk type and size, and security group, etc.

When a template is created, it defaults to Version 1. You can use `CreateLaunchTemplateVersion` to create new versions of this template, with the version number increasing. When you run `RunInstances` to create instances, you can specify the instance launch template version. If it's not specified, the default template version is used.

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

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.
This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. See details.

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: CreateLaunchTemplate.

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Parameter Name	Required	Type	Description
Version	Yes	String	Common parameter. The value used for this API: 2 03-12.
Region	Yes	String	Common parameter. For more information, please the list of regions support by the product.
LaunchTemplateName	Yes	String	Instance launch template name. It can include 2-12 characters.
Placement	Yes	Placement	Location of the instance. can use this parameter to specify the attributes of th instance, such as its availability zone, project, CDH (for dedicated CVM
ImageId	Yes	String	The image ID in the forma `img-xxx` . There are f types of images: • Public images • Custom images • Shared images • Marketplace images (Chinese mainland only) To check the image ID: • For public images, cus images, and shared imag go to the console. For marketplace images, go t Cloud Marketplace. • Call DescribeImages, in `InstanceType` to retrieve the list of images supported by the current model, and then find the `ImageId` in the respo

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Parameter Name	Required	Type	Description
LaunchTemplateVersionDescription	No	String	Description of instance la template versions. This parameter can contain 2- characters.
InstanceType	No	String	The instance model. Diffe resource specifications a specified for different inst models. • To view specific value `PREPAID` or `POSTPAID_BY_HOUR` instances, you can call DescribeInstanceTypeCo or refer to Instance Types this parameter is not specified, the system will specify the default model according to the dynamic resource sales in the curr region. • For `CDHPAID` instances, the value of th parameter is in the forma `CDH_XCXG` based on t number of CPU cores an memory capacity. For example, if you want to cr a CDH instance with a sir core CPU and 1 GB mem you need to specify this parameter as `CDH_1C1`
SystemDisk	No	SystemDisk	System disk configuratio the instance. If this paran is not specified, the defau value will be used.

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Parameter Name	Required	Type	Description
DataDisks.N	No	Array of DataDisk	The configuration informa of instance data disks. If parameter is not specifie data disk will be purchas default. When purchasing you can specify 21 data c which can contain at mos LOCAL_BASIC or LOCAL_SSD data disk, a at most 20 CLOUD_BAS CLOUD_PREMIUM, or CLOUD_SSD data disks
VirtualPrivateCloud	No	VirtualPrivateCloud	Configuration information VPC. This parameter is u to specify VPC ID and su ID, etc. If this parameter i specified, the classic netv is used by default. If a VF is specified in this param it indicates the primary E of each instance. The val parameter InstanceCoun must be same as the nun of VPC IPs, which canno greater than 20.
InternetAccessible	No	InternetAccessible	Configuration of public network bandwidth. If this parameter is not specifie Mbps will be used by def

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Parameter Name	Required	Type	Description
InstanceCount	No	Integer	Number of instances to b purchased. Value range f monthly-subscribed instances: [1, 300]. Value range for pay-as-you-go instances: [1, 100]. Defau value: 1. The specified number of instances to b purchased cannot excee remaining quota allowed the user. For more inform on quota, see CVM instar Purchase Limits.

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Parameter Name	Required	Type	Description
InstanceName	No	String	Instance name to be displayed. • If this parameter is no specified, "Unnamed" wil displayed by default. • If you purchase multip instances at the same tim and specify a pattern stri `{R:x}` , numbers `[x x+n-1]` will be generat where `n` represents th number of instances purchased. For example, specify a pattern string, `server_{R:3}` . If yo only purchase 1 instance instance will be named `server_3` ; if you purchase 2, they will be named `server_3` an `server_4` . You can specify multiple pattern strings in the format of `{R:x}` . • If you purchase multip instances at the same tim and do not specify a patt string, the instance name be suffixed by `1, 2...` where `n` represents th number of instances purchased. For example, you purchase 2 instances the instance name body i `server_` , the instanc names will be `server_` and `server_2` . • This parameter can contain up to 60 characte including the pattern strir

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Parameter Name	Required	Type	Description
LoginSettings	No	LoginSettings	Login settings of the insta You can use this parame set the login method, password, and key of the instance or keep the logir settings of the original im By default, a random password will be generat and sent to you via the Message Center.
SecurityGroupIds.N	No	Array of String	Security groups to which instance belongs. To obt the security group IDs, yo can call DescribeSecurityGroups look for the `sgId` field the response. If this parameter is not specifie instance will be associate with default security grou
EnhancedService	No	EnhancedService	Enhanced service. You c use this parameter to spe whether to enable service such as Anti-DDoS and C Monitor. If this parameter not specified, Cloud Mon and Anti-DDoS are enabl for public images by defa However, for custom ima and images from the marketplace, Anti-DDoS Cloud Monitor are not enabled by default. The original services in the im will be retained.

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Parameter Name	Required	Type	Description
ClientToken	No	String	A unique string supplied the client to ensure that tl request is idempotent. Its maximum length is 64 AS characters. If this parame is not specified, the idempotency of the reque cannot be guaranteed.
HostName	No	String	Host name of the CVM. • Dots (.) or hyphens (-) cannot be the start or enc host name or appear consecutively in a host na • For Windows instance the host name must be 2- characters long and can contain uppercase and lowercase letters, numbe and hyphens (-). It canno contain dots (.) or contair numbers. • For other instances, s as Linux instances, the h name must be 2-60 characters long. It suppo multiple dots (.) and allow uppercase and lowercase letters, numbers, and hyphens (-) between any dots (.).
ActionTimer	No	ActionTimer	Scheduled tasks. You ca use this parameter to spe scheduled tasks for the instance. Only scheduled termination is supported.
DisasterRecoverGroupIds.N	No	Array of String	Placement group ID. You only specify one.

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Parameter Name	Required	Type	Description
TagSpecification.N	No	Array of TagSpecification	The tag description list. T parameter is used to binc tag to a resource instanc tag can only be bound to instances.
InstanceMarketOptions	No	InstanceMarketOptionsRequest	Market options of the instance, such as parame related to spot instances. parameter is required for instances.
UserData	No	String	User data provided to the instance. This parameter needs to be encoded in base64 format with the maximum size of 16KB. F more information on how get the value of this parameter, see the commands you need to execute on startup for Windows or Linux.

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Parameter Name	Required	Type	Description
DryRun	No	Boolean	Whether the request is a run only. true: dry run only. The rec will not create instance(s dry run can check whethe the required parameters specified, whether the rec format is right, whether th request exceeds service limits, and whether the specified CVMs are avail If the dry run fails, the corresponding error code be returned. If the dry run succeeds, tl RequestId will be returne false (default value): senc normal request and creat instance(s) if all the requirements are met.
CamRoleName	No	String	CAM role name, which ca obtained from the `roleName` field in the response of the `DescribeRoleList`
HpcClusterId	No	String	HPC cluster ID. The HPC cluster must and can only specified for a high-performance computing instance.

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Parameter Name	Required	Type	Description
InstanceChargeType	No	String	Instance Billing Mode. Va values: • `PREPAID` : prepaid, billed for monthly-subscri instances • `POSTPAID_BY_HOU` pay-as-you-go on an hou basis • `CDHPAID` : billed fo CDH instances, not the C running on the CDHs. • `SPOTPAID` : billed f spot instances. Default value: POSTPAID_BY_HOUR.
InstanceChargePrepaid	No	InstanceChargePrepaid	Details of the monthly subscription, including th purchase period, auto-renewal. It is required if tl `InstanceChargeTyp` `PREPAID` .

3. Output Parameters

Parameter Name	Type	Description
LaunchTemplateId	String	The ID of successfully created instance launch template. This parameter will be returned when the instance launch template is created through the `CreateLaunchTemplate` API.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an instance launch template with minimal parameters

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This example shows you how to create an instance in Guangzhou Zone 2 using the image `img-pmqg1cw7` and the instance launch template `test` . All other parameters keep the default values.

Input Example

```
GET https://cvm.tencentcloudapi.com/?Action=CreateLaunchTemplate
&Placement.Zone=ap-guangzhou-2
&ImageId=img-pmqg1cw7
&LaunchTemplateName=test
&
```

Output Example

```
{
"Response": {
"LaunchTemplateId": "lt-lobxe2yo",
"RequestId": "9b4ad85f-1657-4445-111d-3c0a9fbec309"
}
}
```

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

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

Error Code	Description
AccountQualificationRestrictions	Your account failed the qualification verification.
AuthFailure.CamRoleNameAuthenticateFailed	Role name authentication failed.
FailedOperation.DisasterRecoverGroupNotFound	The specified spread placement group does not exist.
FailedOperation.InquiryPriceFailed	Price query failed.
FailedOperation.TagKeyReserved	The tag key specified in the request is reserved for the system.
InstancesQuotaLimitExceeded	You are trying to create more instances than your remaining quota allows.
InternalError.TradeUnknownError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidClientToken.TooLong	The specified ClientToken exceeds the maximum length of 64 bytes.
InvalidHostId.Malformed	Invalid CDH `ID` . The specified CDH `ID` has an invalid format. For example, `host-1122` has an invalid `ID` length.
InvalidHostId.NotFound	The specified HostId does not exist, or does not belong to your account.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidInstanceName.TooLong	The specified InstanceName exceeds the maximum length of 60 bytes.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.

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Error Code	Description
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameter.InvalidIpFormat	Invalid VPC IP address format.
InvalidParameter.LackCoreCountOrThreadPerCore	`CoreCount` and `ThreadPerCore` must be specified at the same time.
InvalidParameter.PasswordNotSupported	Setting login password is not supported.
InvalidParameter.SnapshotNotFound	The specified snapshot does not exist.
InvalidParameterCombination	The parameter combination is invalid.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CloudSsdDataDiskSizeTooSmall	The minimum capacity of a SSD data disk is 100 GB.
InvalidParameterValue.CoreCountValue	Illegal core count.
InvalidParameterValue.IllegalHostName	The value of HostName is invalid.
InvalidParameterValue.InstanceTypeNotSupportHpcCluster	This type of instances cannot be added to the HPC cluster.
InvalidParameterValue.InstanceTypeRequiredHpcCluster	The HPC cluster needs to be specified for the high-performance computing instance.
InvalidParameterValue.InsufficientOffering	The spot instance is out of stock.
InvalidParameterValue.InsufficientPrice	The bid is lower than the market price.
InvalidParameterValue.InvalidImageState	The image has another ongoing task. Please check and try again later.
InvalidParameterValue.InvalidIpFormat	Invalid IP address.
InvalidParameterValue.InvalidLaunchTemplateDescription	Incorrect format of instance launch template description.
InvalidParameterValue.InvalidLaunchTemplateName	Incorrect format of instance launch template name.
InvalidParameterValue.InvalidLaunchTemplateVersionDescription	Incorrect format of instance launch template version description.

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Error Code	Description
InvalidParameterValue.InvalidUserDataFormat	Incorrect UserData format. Use the Base64-encoded format.
InvalidParameterValue.LimitExceeded	The number of parameter values exceeds the limit.
InvalidParameterValue.MustDhcpEnabledVpc	The parameter value must be a DHCP-enabled VPC.
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.
InvalidParameterValue.SnapshotIdMalformed	Invalid snapshot ID. Provide a snapshot ID in the format of snap-xxxxxxxx, where the letter x refers to lowercase letter or number.
InvalidParameterValue.SubnetNotExist	Creation failed: the subnet does not exist. Please specify another subnet.
InvalidParameterValue.ThreadPerCoreValue	Invalid thread count per core.
InvalidParameterValue.VpcIdZoneIdNotMatch	The VPC and instance must be in the same availability zone.
InvalidParameterValue.ZoneNotSupported	The availability zone does not support this operation.
InvalidPassword	Invalid password. The specified password does not meet the password requirements. For example, the password length does not meet the requirements.
InvalidPeriod	Invalid period. Valid values: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36]; unit: month.
InvalidPermission	This operation is not supported for the account.
InvalidProjectId.NotFound	Invalid project ID: the specified project ID does not exist.
InvalidSecurityGroupId.NotFound	The specified `security group ID` does not exist.

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Error Code	Description
InvalidZone.MismatchRegion	The specified `zone` does not exist.
LimitExceeded.InstanceQuota	You are short of the instance quota.
LimitExceeded.LaunchTemplateQuota	The number of instance launch templates exceeds the limit.
LimitExceeded.SingleUSGQuota	The number of security groups exceeds the quota limit.
LimitExceeded.SpotQuota	The spot instance offerings are out of stock.
LimitExceeded.UserSpotQuota	You are short of the spot instance quota.
LimitExceeded.VpcSubnetNum	Insufficient subnet IPs.
MissingParameter	Missing parameter.
MissingParameter.DPDKInstanceTypeRequiredVPC	The DPDK instance requires a VPC.
MissingParameter.MonitorService	The instance type must have Cloud Monitor enabled.
ResourceInsufficient.CloudDiskSoldOut	The specified cloud disk has been sold out.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do not meet the specification.
ResourceInsufficient.DisasterRecoverGroupCvmQuota	The number of instances exceeded the quota limit of spread placement groups.
ResourceInsufficient.SpecifiedInstanceType	The specified instance type is insufficient.
ResourceNotFound.HpcCluster	The HPC cluster does not exist.
ResourceNotFound.NoDefaultCbs	No default CBS resources are available.
ResourceNotFound.NoDefaultCbsWithReason	No default CBS resources are available.
ResourceUnavailable.InstanceType	This instance type is unavailable in the availability zone.
ResourcesSoldOut.EipInsufficient	The public IP has been sold out.

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Error Code	Description
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold out.
UnsupportedOperation.BandwidthPackageIdNotSupported	The specified instance or network cannot use the bandwidth package.
UnsupportedOperation.InvalidDisk	The specified disk is not supported.
UnsupportedOperation.KeyPairUnsupportedWindows	Key-pair login is not available to Windows instances.
UnsupportedOperation.NoInstanceTypeSupportSpot	This instance type does not support spot instances.
UnsupportedOperation.NotSupportImportInstancesActionTimer	Failed to configure the scheduled action for the current instance.
UnsupportedOperation.OnlyForPrepaidAccount	Only a prepaid account supports this operation.
VpcAddrNotInSubNet	The VPC IP address is not in the subnet.
VpcIpIsUsed	The VPC IP address is already occupied.

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Data Types

Last updated：2024-08-13 15:30:18

ActionTimer

Scheduled tasks.

Used by actions: CreateLaunchTemplateVersion, DescribeLaunchTemplateVersions, RunInstances.

Name	Type	Required	Description
TimerAction	String	No	Timer action. Valid value: `TerminateInstances` . Note: This field may return `null` , indicating that no valid values can be obtained.
ActionTime	String	No	Action time, which follows the ISO8601 standard and uses UTC time. It must be 5 minutes later than the current time. Format: YYYY-MM-DDThh:mm:ssZ. For example: 2018-05-29T11:26:40Z. Note: This field may return `null` , indicating that no valid values can be obtained.
Externals	Externals	No	Extended data Note: This field may return `null` , indicating that no valid values can be obtained.

ChargePrepaid

Parameters related to the prepaid billing method, including the subscription period, the auto renewal logic, etc.

Used by actions: AllocateHosts.

Name	Type	Required	Description
Period	Integer	Yes	Purchased usage period, in month. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36

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Name	Type	Required	Description
RenewFlag	String	No	Auto renewal flag. Valid values: • NOTIFY_AND_AUTO_RENEW: notify upon expiration and renew automatically • NOTIFY_AND_MANUAL_RENEW: notify upon expiration but do not renew automatically • DISABLE_NOTIFY_AND_MANUAL_RENEW: neither notify upon expiration nor renew automatically Default value: NOTIFY_AND_AUTO_RENEW. If this parameter is specified as NOTIFY_AND_AUTO_RENEW, the instance will be automatically renewed on a monthly basis if the account balance is sufficient.

ChcDeployExtraConfig

Configuration options for MiniOS of the CHC deployment network

Used by actions: DescribeChcHosts.

Name	Type	Required	Description

ChcHost

CHC host information

Used by actions: DescribeChcHosts.

Name	Type	Description
ChcId	String	CHC host ID
InstanceName	String	Instance name
SerialNumber	String	Server serial number

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Name	Type	Description
InstanceState	String	CHC host status • REGISTERED: The CHC host is registered, but the out-of-band network and deployment network are not configured. • VPC_READY: The out-of-band network and deployment network are configured. • PREPARED: It's ready and can be associated with a CVM. • ONLINE: It's already associated with a CVM.
DeviceType	String	Device type Note: This field may return `null` , indicating that no valid values can be obtained.
Placement	Placement	Availability zone
BmcVirtualPrivateCloud	VirtualPrivateCloud	Out-of-band network Note: This field may return `null` , indicating that no valid values can be obtained.
BmcIp	String	Out-of-band network IP Note: This field may return `null` , indicating that no valid values can be obtained.
BmcSecurityGroupIds	Array of String	Out-of-band network security group ID Note: This field may return `null` , indicating that no valid values can be obtained.
DeployVirtualPrivateCloud	VirtualPrivateCloud	Deployment network Note: This field may return `null` , indicating that no valid values can be obtained.
DeployIp	String	Deployment network IP Note: This field may return `null` , indicating that no valid values can be obtained.
DeploySecurityGroupIds	Array of String	Deployment network security group ID Note: This field may return `null` , indicating that no valid values can be obtained.

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Name	Type	Description
CvmInstanceId	String	ID of the associated CVM Note: This field may return `null` , indicating that no valid values can be obtained.
CreatedTime	String	Server creation time
HardwareDescription	String	Instance hardware description, including CPU cores, memory capacity and disk capacity. Note: This field may return `null` , indicating that no valid values can be obtained.
CPU	Integer	CPU cores of the CHC host Note: This field may return `null` , indicating that no valid values can be obtained.
Memory	Integer	Memory capacity of the CHC host (unit: GB) Note: This field may return `null` , indicating that no valid values can be obtained.
Disk	String	Disk capacity of the CHC host Note: This field may return `null` , indicating that no valid values can be obtained.
BmcMAC	String	MAC address assigned under the out-of-band network Note: This field may return `null` , indicating that no valid values can be obtained.
DeployMAC	String	MAC address assigned under the deployment network Note: This field may return `null` , indicating that no valid values can be obtained.
TenantType	String	Management type HOSTING: Hosting TENANT: Leasing Note: This field may return `null` , indicating that no valid values can be obtained.
DeployExtraConfig	ChcDeployExtraConfig	CHC DHCP option, which is used for MiniOS debugging. Note: This field may return `null` , indicating that no valid values can be obtained.

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ChcHostDeniedActions

Describe details of actions not allowed for a CHC instance

Used by actions: DescribeChcDeniedActions.

Name	Type	Description
ChcId	String	CHC instance ID
State	String	CHC instance status
DenyActions	Array of String	Actions not allowed for the current CHC instance

DataDisk

Describes data disk information.

Used by actions: CreateLaunchTemplateVersion, DescribeInstances, DescribeLaunchTemplateVersions, InquiryPriceResizeInstanceDisks, InquiryPriceRunInstances, ResizeInstanceDisks, RunInstances.

Name	Type	Required	Description
DiskSize	Integer	Yes	Data disk size (in GB). The minimum adjustment increment is 10 GB. The value range varies by data disk type. For more information on limits, see Storage Overview. The default value is 0, indicating that no data disk is purchased. For more information, see the product documentation.

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Name	Type	Required	Description
DiskType	String	No	Data disk type. For more information about limits on different data disk types, see Storage Overview. Valid values: • LOCAL_BASIC: local disk • LOCAL_SSD: local SSD disk • LOCAL_NVME: local NVME disk, specified in the `InstanceType` • LOCAL_PRO: local HDD disk, specified in the `InstanceType` • CLOUD_BASIC: HDD cloud disk • CLOUD_PREMIUM: Premium Cloud Storage • CLOUD_SSD: SSD • CLOUD_HSSD: Enhanced SSD • CLOUD_TSSD: Tremendous SSD • CLOUD_BSSD: Balanced SSD Default value: LOCAL_BASIC. This parameter is invalid for the `ResizeInstanceDisk` API.
DiskId	String	No	Data disk ID. Note that it's not available for `LOCAL_BASIC` and `LOCAL_SSD` disks. It is only used as a response parameter for APIs such as `DescribeInstances`, and cannot be used as a request parameter for APIs such as `RunInstances`.
DeleteWithInstance	Boolean	No	Whether to terminate the data disk when its CVM is terminated. Valid values: • TRUE: terminate the data disk when its CVM is terminated. This value only supports pay-as-you-go cloud disks billed on an hourly basis. • FALSE: retain the data disk when its CVM is terminated. Default value: TRUE Currently this parameter is only used in the `RunInstances` API. Note: This field may return null, indicating that no valid value is found.

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Name	Type	Required	Description
SnapshotId	String	No	Data disk snapshot ID. The size of the selected data disk snapshot must be smaller than that of the data disk. Note: This field may return null, indicating that no valid value is found.
Encrypt	Boolean	No	Specifies whether the data disk is encrypted. Valid values: • TRUE: encrypted • FALSE: not encrypted Default value: FALSE This parameter is only used with `RunInstances`. Note: this field may return `null`, indicating that no valid value is obtained.
KmsKeyId	String	No	ID of the custom CMK in the format of UUID or “kms-abcd1234”. This parameter is used to encrypt cloud disks. Currently, this parameter is only used in the `RunInstances` API. Note: this field may return null, indicating that no valid values can be obtained.
ThroughputPerformance	Integer	No	Cloud disk performance, in MB/s Note: this field may return `null`, indicating that no valid values can be obtained.
CdcId	String	No	ID of the dedicated cluster to which the instance belongs. Note: this field may return `null`, indicating that no valid values can be obtained.

DisasterRecoverGroup

Information on disaster recovery groups

Used by actions: DescribeDisasterRecoverGroups.

Name	Type	Description
DisasterRecoverGroupId	String	ID of a spread placement group.

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Name	Type	Description
Name	String	Name of a spread placement group, which must be 1-60 characters long.
Type	String	Type of a spread placement group. Valid values: • HOST: physical machine • SW: switch • RACK: rack.
CvmQuotaTotal	Integer	The maximum number of CVMs that can be hosted in a spread placement group.
CurrentNum	Integer	The current number of CVMs in a spread placement group.
InstanceIds	Array of String	The list of CVM IDs in a spread placement group. Note: This field may return null, indicating that no valid value was found.
CreateTime	Timestamp	Creation time of a spread placement group. Note: This field may return null, indicating that no valid value is found.

EnhancedService

Describes the configuration of enhanced services, such as Cloud Security and Cloud Monitor.

Used by actions: CreateLaunchTemplateVersion, DescribeLaunchTemplateVersions, InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, RunInstances.

Name	Type	Required	Description
SecurityService	RunSecurityServiceEnabled	No	Enables cloud security service. If this parameter is not specified, the cloud security service will be enabled by default.
MonitorService	RunMonitorServiceEnabled	No	Enables cloud monitor service. If this parameter is not specified, the cloud monitor service will be enabled by default.

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Name	Type	Required	Description
AutomationService	RunAutomationServiceEnabled	No	Whether to enable the TAT service. If this parameter is not specified, the TAT service is enabled for public images and disabled for other images by default.

Externals

Additional data

Used by actions: CreateLaunchTemplateVersion, DescribeReservedInstancesConfigInfos, DescribeZoneInstanceConfigInfos, RunInstances.

Name	Type	Required	Description
ReleaseAddress	Boolean	No	Release address Note: This field may return null, indicating that no valid value is found.
UnsupportNetworks	Array of String	No	Not supported network. Value: • BASIC: classic network • VPC1.0: VPC1.0 Note: This field may return null, indicating that no valid value was found.
StorageBlockAttr	StorageBlock	No	Attributes of local HDD storage Note: This field may return null, indicating that no valid value is found.

Filter

Key-value pair filters used for conditional queries, such as filtering results by ID, name, and state.

- If there are multiple `Filter` parameters, they are evaluated using the logical `AND` operator.
- If a `Filter` contains multiple `Values`, they are evaluated using the logical `OR` operator.

Take DescribeInstances as an example. You can use the following filters to query the instances in availability zone (`zone`) Guangzhou Zone 1 ***and*** whose billing plan (`instance-charge-type`) is pay-as-you-go:

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```
Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-1
&Filters.1.Name=instance-charge-type
&Filters.1.Values.0=POSTPAID_BY_HOUR
```

Used by actions: DescribeChcHosts, DescribeHosts, DescribeImages, DescribeInstances, DescribeKeyPairs, DescribeLaunchTemplates, DescribeReservedInstancesConfigInfos, DescribeReservedInstancesOfferings, DescribeZoneInstanceConfigInfos.

Name	Type	Required	Description
Name	String	Yes	Filters.
Values	Array of String	Yes	Filter values.

GPUInfo

GPU information of the instance

Used by actions: DescribeInstances.

Name	Type	Description
GPUCount	Float	Number of GPUs. Note: this field may return `null` , indicating that no valid value can be found.
GPUId	Array of String	GPU address Note: this field may return `null` , indicating that no valid value can be found.
GPUType	String	GPU type of the instance. Note: this field may return `null` , indicating that no valid value can be found.

HostItem

CDH instance details

Used by actions: DescribeHosts.

Name	Type	Description

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Name	Type	Description
Placement	Placement	CDH instance location. This parameter is used to specify the AZ, project, and other attributes of the instance.
HostId	String	CDH instance ID
HostType	String	CDH instance type
HostName	String	CDH instance name
HostChargeType	String	CDH instance billing mode
RenewFlag	String	CDH instance renewal flag
CreatedTime	Timestamp ISO8601	CDH instance creation time
ExpiredTime	Timestamp ISO8601	CDH instance expiry time
InstanceIds	Array of String	List of IDs of CVMs created on a CDH instance
HostState	String	CDH instance status
HostIp	String	CDH instance IP
HostResource	HostResource	CDH instance resource information
CageId	String	Cage ID of the CDH instance. This parameter is only valid for CDH instances in the cages of finance availability zones. Note: This field may return null, indicating that no valid value is found.

HostResource

Resource information of the CDH instance

Used by actions: DescribeHosts.

Name	Type	Description
CpuTotal	Integer	Total number of CPU cores in the CDH instance
CpuAvailable	Integer	Number of available CPU cores in the CDH instance

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Name	Type	Description
MemTotal	Float	Total memory size of the CDH instance (unit: GiB)
MemAvailable	Float	Available memory size of the CDH instance (unit: GiB)
DiskTotal	Integer	Total disk size of the CDH instance (unit: GiB)
DiskAvailable	Integer	Available disk size of the CDH instance (unit: GiB)
DiskType	String	Disk type of the CDH instance
GpuTotal	Integer	Total number of GPU cards in the CDH instance
GpuAvailable	Integer	Number of available GPU cards in the CDH instance

Image

Details about an image, including its state and attributes.

Used by actions: DescribeImages.

Name	Type	Description
ImageId	String	Image ID
OsName	String	Operating system of the image
ImageType	String	Image type
CreatedTime	Timestamp ISO8601	Creation time of the image
ImageName	String	Image name
ImageDescription	String	Image description
ImageSize	Integer	Image size
Architecture	String	Image architecture
ImageState	String	Image state
Platform	String	Source platform of the image
ImageCreator	String	Image creator

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Name	Type	Description
ImageSource	String	Image source
SyncPercent	Integer	Synchronization percentage Note: This field may return null, indicating that no valid value is found.
IsSupportCloudinit	Boolean	Whether the image supports cloud-init Note: This field may return null, indicating that no valid value is found.
SnapshotSet	Array of Snapshot	Information on the snapshots associated with the image Note: This field may return null, indicating that no valid value is found.
Tags	Array of Tag	The list of tags bound to the image. Note: This field may return `null` , indicating that no valid value was found.
LicenseType	String	Image license type

ImageOsList

Supported operating systems. They are divided into two categories, Windows and Linux.

Used by actions: DescribeImportImageOs.

Name	Type	Description
Windows	Array of String	Supported Windows OS Note: This field may return `null` , indicating that no valid values can be obtained.
Linux	Array of String	Supported Linux OS Note: This field may return `null` , indicating that no valid values can be obtained.

Instance

Describes information on an instance

Used by actions: DescribeInstances.

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Name	Type	Description
Placement	Placement	Location of the instance
InstanceId	String	Instance `ID`
InstanceType	String	Instance model
CPU	Integer	Number of CPU cores of the instance; unit: core
Memory	Integer	Memory capacity; unit: `GB` .
RestrictState	String	Instance status. Valid values: • NORMAL: instance is normal. • EXPIRED: instance expired. • PROTECTIVELY_ISOLATED: instance is protectively isolated.
InstanceName	String	Instance name
InstanceChargeType	String	Instance billing plan. Valid values: • `POSTPAID_BY_HOUR` : pay after use. You are billed by the hour, by traffic. • `CDHPAID` : `CDH` billing plan. Applicable to `CDH` only, not the instances on the host.
SystemDisk	SystemDisk	Information on the system disk of the instance
DataDisks	Array of DataDisk	Information of the instance data disks.
PrivateIpAddresses	Array of String	List of private IPs of the instance's primary ENI.
PublicIpAddresses	Array of String	List of public IPs of the instance's primary ENI. Note: This field may return null, indicating that no valid value is found.
InternetAccessible	InternetAccessible	Information on instance bandwidth.
VirtualPrivateCloud	VirtualPrivateCloud	Information on the VPC where the instance resides.
ImageId	String	`ID` of the image used to create the instance.

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Name	Type	Description
RenewFlag	String	Auto renewal flag. Valid values: • `NOTIFY_AND_MANUAL_RENEW` : notify upon expiration, but do not renew automatically • `NOTIFY_AND_AUTO_RENEW` : notify upon expiration and renew automatically • `DISABLE_NOTIFY_AND_MANUAL_RENEW` : do not notify upon expiration and do not renew automatically. • Note: this parameter is `null` for postpaid instances.
CreatedTime	Timestamp ISO8601	Creation time following the `ISO8601` standard and using `UTC` time in the format of `YYYY-MM-DDThh:mm:ssZ` .
ExpiredTime	Timestamp ISO8601	Expiration time in UTC format following the `ISO8601` standard: `YYYY-MM-DDThh:mm:ssZ` . Note: this parameter is `null` for postpaid instances.
OsName	String	Operating system name.
SecurityGroupIds	Array of String	Security groups to which the instance belongs. To obtain the security group IDs, you can call DescribeSecurityGroups and look for the `sgId` fields in the response.
LoginSettings	LoginSettings	Login settings of the instance. Currently only the key associated with the instance is returned.
InstanceState	String	Instance state. Valid values: • PENDING: creating • LAUNCH_FAILED: creation failed • RUNNING: running • STOPPED: shut down • STARTING: starting • STOPPING: shutting down • REBOOTING: rebooting • SHUTDOWN: shut down and to be terminated • TERMINATING: terminating.
Tags	Array of Tag	List of tags associated with the instance.

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Name	Type	Description
StopChargingMode	String	Instance billing method after shutdown. Valid values: • KEEP_CHARGING: billing continues after shutdown • STOP_CHARGING: billing stops after shutdown • NOT_APPLICABLE: the instance is not shut down or stopping billing after shutdown is not applicable to the instance.
Uuid	String	Globally unique ID of the instance.
LatestOperation	String	Last operation of the instance, such as StopInstances or ResetInstance.
LatestOperationState	String	The latest operation status of the instance. Valid values: • SUCCESS: operation succeeded • OPERATING: operation in progress • FAILED: operation failed
LatestOperationRequestId	String	Unique request ID for the last operation of the instance.
DisasterRecoverGroupId	String	ID of a spread placement group. Note: this field may return null, indicating that no valid value is obtained.
IPv6Addresses	Array of String	IPv6 address of the instance. Note: this field may return null, indicating that no valid value is obtained.
CamRoleName	String	CAM role name. Note: this field may return null, indicating that no valid value is obtained.
HpcClusterId	String	HPC cluster ID. Note: this field may return null, indicating that no valid value was found.
RdmaIpAddresses	Array of String	IP list of HPC cluster. Note: this field may return null, indicating that no valid value was found.

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Name	Type	Description
IsolatedSource	String	The isolation status of the instance. Valid values: • `ARREAR` : isolated due to overdue payment; • `EXPIRE` : isolated upon expiration; • `MANMADE` : isolated after manual returning; • `NOTISOLATED` : not isolated Note: this field may return null, indicating that no valid value was found.
GPUInfo	GPUInfo	GPU information. This field is only returned for GPU instances. Note: this field may return null, indicating that no valid value was found.
LicenseType	String	Instance OS license type. Default value: `TencentCloud`
DisableApiTermination	Boolean	Whether the termination protection is enabled. Values: • `TRUE` : Enable instance protection, which means that this instance can not be deleted by an API action. • `FALSE` : Do not enable the instance protection. Default value: `FALSE` .
DefaultLoginUser	String	Default login user
DefaultLoginPort	Integer	Default login port
LatestOperationErrorMsg	String	Latest operation errors of the instance. Note: This field may return `null` , indicating that no valid values can be obtained.

InstanceChargePrepaid

Describes the billing method of an instance.

Used by actions: CreateLaunchTemplateVersion, DescribeLaunchTemplateVersions, InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description

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Name	Type	Required	Description
Period	Integer	Yes	Subscription period (in month). Valid values: `1`, `2`, `3`, `4`, `5`, `6`, `7`, `8`, `9`, `10`, `11`, `12`, `24`, `36`, `48’,` 60 `.` ` Note: This field may return` null`, indicating that no valid values can be obtained.
RenewFlag	String	No	Auto-renewal flag. Valid values: • NOTIFY_AND_AUTO_RENEW: Notify upon expiration and renew automatically • NOTIFY_AND_MANUAL_RENEW: Notify upon expiration but do not renew automatically • DISABLE_NOTIFY_AND_MANUAL_RENEW: Neither notify upon expiration nor renew automatically Default value: `NOTIFY_AND_MANUAL_RENEW`. When `NOTIFY_AND_AUTO_RENEW` is specified, the instance is automatically renewed on a monthly basis if the account has sufficient balance. Note: This field may return `null`, indicating that no valid values can be obtained.

InstanceFamilyConfig

Describes the model family of the instance.

Examples: {'InstanceFamilyName': 'Standard S1', 'InstanceFamily': 'S1'}, {'InstanceFamilyName': 'Network-optimized N1', 'InstanceFamily': 'N1'}, {'InstanceFamilyName': 'High IO I1', 'InstanceFamily': 'I1'}, etc.

Used by actions: DescribeInstanceFamilyConfigs.

Name	Type	Description
InstanceFamilyName	String	Full name of the model family.
InstanceFamily	String	Acronym of the model family.

InstanceMarketOptionsRequest

Options related to bidding requests

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Used by actions: CreateLaunchTemplateVersion, DescribeLaunchTemplateVersions, InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
SpotOptions	SpotMarketOptions	Yes	Spot-related options Note: This field may return `null` , indicating that no valid values can be obtained.
MarketType	String	No	Market type. Valid value: `spot` . Note: This field may return `null` , indicating that no valid values can be obtained.

InstanceStatus

Describes instance states. For state types, see here.

Used by actions: DescribeInstancesStatus.

Name	Type	Description
InstanceId	String	Instance `ID` .
InstanceState	String	The instance state. Valid values: • PENDING: creating • LAUNCH_FAILED: creation failed • RUNNING: running • STOPPED: shut down • STARTING: starting • STOPPING: shutting down • REBOOTING: rebooting • SHUTDOWN: shut down and to be terminated • TERMINATING: terminating.

InstanceTypeQuotaItem

Describes instance model quota.

Used by actions: DescribeZoneInstanceConfigInfos.

Name	Type	Description

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Name	Type	Description
Zone	String	Availability zone.
InstanceType	String	Instance model.
InstanceChargeType	String	Instance billing plan. Valid values: • POSTPAID_BY_HOUR: pay after use. You are billed for your traffic by the hour. • `CDHPAID` : `CDH` billing plan. Applicable to `CDH` only, not the instances on the host.
NetworkCard	Integer	ENI type. For example, 25 represents an ENI of 25 GB.
Externals	Externals	Additional data. Note: This field may return null, indicating that no valid value is found.
Cpu	Integer	Number of CPU cores of an instance model.
Memory	Integer	Instance memory capacity; unit: `GB` .
InstanceFamily	String	Instance model family.
TypeName	String	Model name.
LocalDiskTypeList	Array of LocalDiskType	List of local disk specifications. If the parameter returns null, it means that local disks cannot be created.
Status	String	Whether an instance model is available. Valid values: • SELL: available • SOLD_OUT: sold out
Price	ItemPrice	Price of an instance model.
SoldOutReason	String	Details of out-of-stock items Note: this field may return null, indicating that no valid value is obtained.
InstanceBandwidth	Float	Private network bandwidth, in Gbps.
InstancePps	Integer	The max packet sending and receiving capability (in 10k PPS).
StorageBlockAmount	Integer	Number of local storage blocks.
CpuType	String	CPU type.
Gpu	Integer	Number of GPUs of the instance.

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Name	Type	Description
Fpga	Integer	Number of FPGAs of the instance.
Remark	String	Descriptive information of the instance.
GpuCount	Float	
Frequency	String	CPU clock rate of the instance

InternetAccessible

Describes the accessibility of an instance in the public network, including its network billing method, maximum bandwidth, etc.

Used by actions: CreateLaunchTemplateVersion, DescribeInstances, DescribeLaunchTemplateVersions, InquiryPriceResetInstancesInternetMaxBandwidth, InquiryPriceRunInstances, ResetInstancesInternetMaxBandwidth, RunInstances.

Name	Type	Required	Description
InternetChargeType	String	No	Network connection billing plan. Valid value: • TRAFFIC_POSTPAID_BY_HOUR: pay after use. You are billed for your traffic, by the hour.
InternetMaxBandwidthOut	Integer	No	The maximum outbound bandwidth of the public network, in Mbps. The default value is 0 Mbps. The upper limit of bandwidth varies for different models. For more information, see Purchase Network Bandwidth.
PublicIpAssigned	Boolean	No	Whether to assign a public IP. Valid values: • TRUE: Assign a public IP • FALSE: Do not assign a public IP If the public network bandwidth is greater than 0 Mbps, you can choose whether to assign a public IP; by default a public IP will be assigned. If the public network bandwidth is 0 Mbps, you will not be able to assign a public IP.
BandwidthPackageId	String	No	Bandwidth package ID. To obatin the IDs, you can call `DescribeBandwidthPackages` and look for the `BandwidthPackageId` fields in the response.

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InternetChargeTypeConfig

Describes network billing.

Used by actions: DescribeInternetChargeTypeConfigs.

Name	Type	Required	Description
InternetChargeType	String	No	Network billing method.
Description	String	No	Description of the network billing method.

ItemPrice

Describes pricing information.

Used by actions: DescribeZoneInstanceConfigInfos, InquiryPriceResetInstance, InquiryPriceResetInstancesInternetMaxBandwidth, InquiryPriceResetInstancesType, InquiryPriceResizeInstanceDisks, InquiryPriceRunInstances.

Name	Type	Description
UnitPrice	Float	The original unit price for pay-as-you-go mode in USD. • When a billing tier is returned, it indicates the price fo the returned billing tier. For example, if `UnitPriceSecondStep` is returned, it refers to the unit price for the usage between 0 to 96 hours. Otherwise, it refers to that the unit price for unlimited usage. Note: this field may return null, indicating that no valid value is obtained.
ChargeUnit	String	Billing unit for pay-as-you-go mode. Valid values: • HOUR: billed on an hourly basis. It's used for hourly postpaid instances (`POSTPAID_BY_HOUR`). • GB: bill by traffic in GB. It's used for postpaid products that are billed by the hourly traffic (`TRAFFIC_POSTPAID_BY_HOUR`). Note: this field may return null, indicating that no valid value is obtained.
OriginalPrice	Float	The original price of a pay-in-advance instance, in USD. Note: this field may return null, indicating that no valid value is obtained.

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Name	Type	Description
DiscountPrice	Float	Discount price of a prepaid instance, in USD. Note: this field may return null, indicating that no valid value is obtained.
Discount	Float	Percentage of the original price. For example, if you enter "20.0", the discounted price will be 20% of the original price. Note: this field may return null, indicating that no valid values can be obtained.
UnitPriceDiscount	Float	The discounted unit price for pay-as-you-go mode in USD. • When a billing tier is returned, it indicates the price fo the returned billing tier. For example, if `UnitPriceSecondStep` is returned, it refers to the unit price for the usage between 0 to 96 hours. Otherwise, it refers to that the unit price for unlimited usage. Note: this field may return null, indicating that no valid value is obtained.
UnitPriceSecondStep	Float	Original unit price for the usage between 96 to 360 hours in USD. It's applicable to pay-as-you-go mode. Note: this field may return null, indicating that no valid value is obtained.
UnitPriceDiscountSecondStep	Float	Discounted unit price for the usage between 96 to 360 hours in USD. It's applicable to pay-as-you-go mode. Note: this field may return null, indicating that no valid value is obtained.
UnitPriceThirdStep	Float	Original unit price for the usage after 360 hours in USD. It's applicable to pay-as-you-go mode. Note: this field may return null, indicating that no valid value is obtained.
UnitPriceDiscountThirdStep	Float	Discounted unit price for the usage after 360 hours in USD. It's applicable to pay-as-you-go mode. Note: this field may return null, indicating that no valid value is obtained.
OriginalPriceThreeYear	Float	Original 3-year payment, in USD. This parameter is only available to upfront payment mode. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.

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Name	Type	Description
DiscountPriceThreeYear	Float	Discounted 3-year upfront payment, in USD. This parameter is only available to upfront payment mode. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.
DiscountThreeYear	Float	Discount for 3-year upfront payment. For example, 20.0 indicates 80% off. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.
OriginalPriceFiveYear	Float	Original 5-year payment, in USD. This parameter is only available to upfront payment mode. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.
DiscountPriceFiveYear	Float	Discounted 5-year upfront payment, in USD. This parameter is only available to upfront payment mode. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.
DiscountFiveYear	Float	Discount for 5-year upfront payment. For example, 20.0 indicates 80% off. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.
OriginalPriceOneYear	Float	Original 1-year payment, in USD. This parameter is only available to upfront payment mode. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.

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Name	Type	Description
DiscountPriceOneYear	Float	Discounted 1-year payment, in USD. This parameter is only available to upfront payment mode. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.
DiscountOneYear	Float	Discount for 1-year upfront payment. For example, 20.0 indicates 80% off. Note: this field may return `null` , indicating that no valid value was found. Note: this field may return `null` , indicating that no valid value was found.

KeyPair

Describes key pair information.

Used by actions: CreateKeyPair, DescribeKeyPairs.

Name	Type	Description
KeyId	String	Key pair `ID` , the unique identifier of a key pair.
KeyName	String	Key pair name.
ProjectId	Integer	`ID` of the project to which a key pair belongs.
Description	String	Key pair description.
PublicKey	String	Content of public key in a key pair.
PrivateKey	String	Content of private key in a key pair. Tencent Cloud do not keep private keys. Please keep it properly.
AssociatedInstanceIds	Array of String	`ID` list of instances associated with a key.
CreatedTime	Timestamp ISO8601	Creation time, which follows the `ISO8601` standard and uses `UTC` time in the format of `YYYY-MM-DDThh:mm:ssZ` .

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Name	Type	Description
Tags	Array of Tag	The list of tags bound to the key. Note: This field may return `null` , indicating that no valid value can be obtained.

LaunchTemplate

Instance launch template. This parameter enables you to create an instance using the preset parameters in the template.

Used by actions: RunInstances.

Name	Type	Required	Description
LaunchTemplateId	String	No	Instance launch template ID. This parameter enables you to create an instance using the preset parameters in the template.
LaunchTemplateVersion	Integer	No	Instance launch template version number. If specified, this parameter will be used to create a new instance launch template.

LaunchTemplateInfo

Information of instance launch template.

Used by actions: DescribeLaunchTemplates.

Name	Type	Description
LatestVersionNumber	Integer	Instance launch template version number. Note: This field may return `null` , indicating that no valid values can be obtained.
LaunchTemplateId	String	Instance launch template ID. Note: This field may return `null` , indicating that no valid values can be obtained.
LaunchTemplateName	String	Instance launch template name. Note: This field may return `null` , indicating that no valid values can be obtained.

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Name	Type	Description
DefaultVersionNumber	Integer	Default instance launch template version number. Note: This field may return `null` , indicating that no valid values can be obtained.
LaunchTemplateVersionCount	Integer	Total number of versions that the instance launch template contains. Note: This field may return `null` , indicating that no valid values can be obtained.
CreatedBy	String	UIN of the user who created the template. Note: This field may return `null` , indicating that no valid values can be obtained.
CreationTime	Timestamp ISO8601	Creation time of the template. Note: This field may return `null` , indicating that no valid values can be obtained.

LaunchTemplateVersionData

Information of instance launch template versions

Used by actions: DescribeLaunchTemplateVersions.

Name	Type	Description
Placement	Placement	Location of the instance. Note: This field may return `null` , indicating that no valid values can be obtained.
InstanceType	String	Instance model. Note: This field may return `null` , indicating that no valid values can be obtained.
InstanceName	String	Instance name. Note: This field may return `null` , indicating that no valid values can be obtained.

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Name	Type	Description
InstanceChargeType	String	Instance billing mode. Valid values: • `POSTPAID_BY_HOUR` : postpaid for pay-as-you-go instances • `CDHPAID` : billed for CDH instances, not the CVMs running on the CDHs. Note: This field may return `null` , indicating that no valid values can be obtained.
SystemDisk	SystemDisk	Instance system disk information. Note: This field may return `null` , indicating that no valid values can be obtained.
DataDisks	Array of DataDisk	Instance data disk information. This parameter only covers the data disks purchased together with the instance. Note: This field may return `null` , indicating that no valid values can be obtained.
InternetAccessible	InternetAccessible	Instance bandwidth information. Note: This field may return `null` , indicating that no valid values can be obtained.
VirtualPrivateCloud	VirtualPrivateCloud	Information of the VPC where the instance resides. Note: This field may return `null` , indicating that no valid values can be obtained.
ImageId	String	`ID` of the image used to create the instance. Note: This field may return `null` , indicating that no valid values can be obtained.

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Name	Type	Description
SecurityGroupIds	Array of String	Security groups to which the instance belongs. To obtain the security group IDs, you can call DescribeSecurityGroups and look for the `sgId` fields in the response. Note: This field may return `null`, indicating that no valid values can be obtained.
LoginSettings	LoginSettings	Login settings of the instance. Currently, only the key associated with the instance is returned. Note: This field may return `null`, indicating that no valid values can be obtained.
CamRoleName	String	CAM role name. Note: This field may return `null`, indicating that no valid values can be obtained.
HpcClusterId	String	HPC cluster `ID`. Note: This field may return `null`, indicating that no valid values can be obtained.
InstanceCount	Integer	Number of instances purchased. Note: This field may return `null`, indicating that no valid values can be obtained.
EnhancedService	EnhancedService	Enhanced service. Note: This field may return `null`, indicating that no valid values can be obtained.
UserData	String	User data provided to the instance. This parameter needs to be encoded in base64 format with the maximum size of 16KB. Note: This field may return `null`, indicating that no valid values can be obtained.

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Name	Type	Description
DisasterRecoverGroupIds	Array of String	Placement group ID. You can only specify one. Note: This field may return `null` , indicating that no valid values can be obtained.
ActionTimer	ActionTimer	Scheduled tasks. You can use this parameter to specify scheduled tasks for the instance. Only scheduled termination is supported. Note: This field may return `null` , indicating that no valid values can be obtained.
InstanceMarketOptions	InstanceMarketOptionsRequest	Market options of the instance, such as parameters related to spot instances. This parameter is required for spot instances. Note: This field may return `null` , indicating that no valid values can be obtained.
HostName	String	Hostname of a CVM. Note: This field may return `null` , indicating that no valid values can be obtained.
ClientToken	String	A string used to ensure the idempotency of the request. Note: This field may return `null` , indicating that no valid values can be obtained.
InstanceChargePrepaid	InstanceChargePrepaid	Prepaid mode. This parameter indicates relevant parameter settings for monthly-subscribed instances. Note: This field may return `null` , indicating that no valid values can be obtained.

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Name	Type	Description
TagSpecification	Array of TagSpecification	List of tag description. By specifying this parameter, the tag can be bound to the corresponding CVM and CBS instances at the same time. Note: This field may return `null` , indicating that no valid values can be obtained.
DisableApiTermination	Boolean	Whether to enable termination protection. Valid values: TRUE: Termination protection is enabled. FALSE: Termination protection is disabled. Default value: `FALSE` . Note: This field may return `null` , indicating that no valid values can be obtained.

LaunchTemplateVersionInfo

Set of instance launch template versions.

Used by actions: DescribeLaunchTemplateVersions.

Name	Type	Description
LaunchTemplateVersion	Integer	Instance launch template version number. Note: This field may return `null` , indicating that no valid values can be obtained.
LaunchTemplateVersionData	LaunchTemplateVersionData	Details of instance launch template versions.
CreationTime	Timestamp ISO8601	Creation time of the instance launch template version.
LaunchTemplateId	String	Instance launch template ID.

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Name	Type	Description
IsDefaultVersion	Boolean	Specifies whether it's the default launch template version.
LaunchTemplateVersionDescription	String	Information of instance launch template version description. Note: This field may return `null`, indicating that no valid values can be obtained.
CreatedBy	String	Creator account

LocalDiskType

Describes local disk specifications.

Used by actions: DescribeZoneInstanceConfigInfos.

Name	Type	Description
Type	String	Type of a local disk.
PartitionType	String	Attributes of a local disk.
MinSize	Integer	Minimum size of a local disk.
MaxSize	Integer	Maximum size of a local disk.
Required	String	Whether a local disk is required during purchase. Valid values: • REQUIRED: required • OPTIONAL: optional

LoginSettings

Describes login settings of an instance.

Used by actions: CreateLaunchTemplateVersion, DescribeInstances, DescribeLaunchTemplateVersions, InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, RunInstances.

Name	Type	Required	Description

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Name	Type	Required	Description
Password	String	No	Login password of the instance. • For Linux instances, the password must include 8-30 characters, and contain at least two of the following character sets: [a-z], [A-Z], [0-9] and [()`~!@#$%^&*-+=
KeyIds	Array of String	No	List of key IDs. After an instance is associated with a key, you can access the instance with the private key in the key pair. You can call `DescribeKeyPairs` to obtain `KeyId` . You cannot specify a key and a password at the same time. Windows instances do not support keys. Note: This field may return `null` , indicating that no valid values can be obtained.
KeepImageLogin	String	No	Whether to keep the original settings of an image. You cannot specify this parameter and `Password` or `KeyIds.N` at the same time. You can specify this parameter as `TRUE` only when you create an instance using a custom image, a shared image, or an imported image. Valid values: • TRUE: keep the login settings of the image • FALSE: do not keep the login settings of the image Default value: FALSE. Note: This field may return null, indicating that no valid value is found.

OperationCountLimit

Describes the maximum number of times you can perform an operation on a single instance.

Used by actions: DescribeInstancesOperationLimit.

Name	Type	Description
Operation	String	Instance operation. Valid values: • `INSTANCE_DEGRADE` : downgrade an instance • `INTERNET_CHARGE_TYPE_CHANGE` : modify the billing plan of the network connection
InstanceId	String	Instance ID.
CurrentCount	Integer	Number of operations already performed. If it returns `-1` , it means there is no limit on the times of the operation.

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Name	Type	Description
LimitCount	Integer	Maximum number of times you can perform an operation. If it returns `-1` , it means there is no limit on the times of the operation. If it returns `0` , it means that configuration modification is not supported.

OsVersion

Supported operating system types.

Used by actions: DescribeImportImageOs.

Name	Type	Description
OsName	String	Operating system type
OsVersions	Array of String	Supported operating system versions
Architecture	Array of String	Supported operating system architecture

Placement

Placement of an instance, including its availability zone, project, host (for CDH products only), master host IP, etc.

Used by actions: AllocateHosts, CreateLaunchTemplateVersion, DescribeChcHosts, DescribeHosts, DescribeInstances, DescribeLaunchTemplateVersions, InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
Zone	String	Yes	ID of the availability zone where the instance resides. You can call the DescribeZones API and obtain the ID in the returned `Zone` field.
ProjectId	Integer	No	ID of the project to which the instance belongs. This parameter can be obtained from the `projectId` returned by DescribeProject. If this is left empty, the default project is used.
HostIds	Array of String	No	ID list of CDHs from which the instance can be created. If you have purchased CDHs and specify this parameter, the instances you purchase will be randomly deployed on the CDHs.

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Name	Type	Required	Description
HostIps	Array of String	No	IPs of the hosts to create CVMs
HostId	String	No	The ID of the CDH to which the instance belongs, only used as an output parameter.

Price

Price.

Used by actions: InquiryPriceResetInstance, InquiryPriceResetInstancesInternetMaxBandwidth, InquiryPriceResetInstancesType, InquiryPriceResizeInstanceDisks, InquiryPriceRunInstances.

Name	Type	Description
InstancePrice	ItemPrice	Instance price.
BandwidthPrice	ItemPrice	Network price.

RegionInfo

Region information.

Used by actions: DescribeRegions.

Name	Type	Description
Region	String	Region name, such as `ap-guangzhou`
RegionName	String	Region description, such as South China (Guangzhou)
RegionState	String	Whether the region is available

ReservedInstanceConfigInfoItem

Static configurations of the reserved instance. Currently, RIs are only offered to beta users.

Used by actions: DescribeReservedInstancesConfigInfos.

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Name	Type	Description
Type	String	Abbreviation name of the instance type.
TypeName	String	Full name of the instance type.
Order	Integer	Priority.
InstanceFamilies	Array of ReservedInstanceFamilyItem	List of instance families.

ReservedInstanceFamilyItem

RI-related instance family. Currently, RIs are only offered to beta users.

Used by actions: DescribeReservedInstancesConfigInfos.

Name	Type	Description
InstanceFamily	String	Instance family.
Order	Integer	Priority.
InstanceTypes	Array of ReservedInstanceTypeItem	List of instance types.

ReservedInstancePrice

Price of the reserved instance. Currently, RIs are only offered to beta users.

Used by actions: InquirePricePurchaseReservedInstancesOffering.

Name	Type	Description
OriginalFixedPrice	Float	Original upfront payment, in USD.
DiscountFixedPrice	Float	Discounted upfront payment, in USD.
OriginalUsagePrice	Float	Original subsequent unit price, in USD/hr.
DiscountUsagePrice	Float	Discounted subsequent unit price, in USD/hr.

ReservedInstancePriceItem

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Price information of the reserved instance based on the payment method. Currently, RIs are only offered to beta users.

Used by actions: DescribeReservedInstancesConfigInfos.

Name	Type	Description
OfferingType	String	Payment method. Valid values: All Upfront, Partial Upfront, and No Upfront.
FixedPrice	Float	Upfront payment, in USD.
UsagePrice	Float	Subsequent unit price, in USD/hr.
ReservedInstancesOfferingId	String	The ID of the reserved instance offering.
Zone	String	The availability zone in which the reserved instance can be purchased.
Duration	Integer	The **validity** of the reserved instance in seconds, which is the purchased usage period. For example, `31536000` . Unit: second
ProductDescription	String	The operating system of the reserved instance, such as `Linux` . Valid value: `Linux` .

ReservedInstanceTypeItem

Reserved instance specification. Currently, RIs are only offered to beta users.

Used by actions: DescribeReservedInstancesConfigInfos.

Name	Type	Description
InstanceType	String	Instance type.
Cpu	Integer	Number of CPU cores.
Memory	Integer	Memory size.
Gpu	Integer	Number of GPUs.
Fpga	Integer	Number of FPGAs.
StorageBlock	Integer	Number of local storage blocks.
NetworkCard	Integer	Number of NICs.

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Name	Type	Description
MaxBandwidth	Float	Maximum bandwidth.
Frequency	String	CPU frequency.
CpuModelName	String	CPU type.
Pps	Integer	Packet forwarding rate.
Externals	Externals	Other information.
Remark	String	Remarks.
Prices	Array of ReservedInstancePriceItem	Price information about the reserved instance.

ReservedInstancesOffering

The information of the Reserved Instance offering.

Used by actions: DescribeReservedInstancesOfferings.

Name	Type	Description
Zone	String	The availability zones in which the Reserved Instance can be purchased, such as ap-guangzhou-1. Valid value: Availability Zones
CurrencyCode	String	The billing currency of the Reserved Instance you are purchasing. It's specified using ISO 4217 standard currency. Value: USD.
Duration	Integer	The **validity** of the Reserved Instance in seconds, which is the purchased usage period. For example, 31536000. Unit: second
FixedPrice	Float	The purchase price of the Reserved Instance, such as 4000.0. Unit: this field uses the currency code specified in `currencyCode` , and only supports “USD” at this time.
InstanceType	String	The instance model of the Reserved Instance, such as S3.MEDIUM4. Valid values: please see Reserved Instance Types

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Name	Type	Description
OfferingType	String	The payment term of the Reserved Instance, such as **All Upfront**. Valid value: All Upfront.
ReservedInstancesOfferingId	String	The ID of the Reserved Instance offering, such as 650c138f-ae7e-4750-952a-96841d6e9fc1.
ProductDescription	String	The operating system of the Reserved Instance, such as **linux**. Valid value: linux.
UsagePrice	Float	The hourly usage price of the Reserved Instance, such as 0.0. Currently, the only supported payment mode is **All Upfront**, so the default value of `UsagePrice` is 0 USD/hr. Unit: USD/hr. This field uses the currency code specified in `currencyCode`, and only supports “USD” at this time.

RunAutomationServiceEnabled

Describes the TAT service information.

Used by actions: CreateLaunchTemplateVersion, InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, RunInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable the TAT service. Valid values: • `TRUE`: yes; • `FALSE`: no Default: `FALSE`.

RunMonitorServiceEnabled

Describes information related to the Cloud Monitor service.

Used by actions: CreateLaunchTemplateVersion, InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, RunInstances.

Name	Type	Required	Description

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Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable Cloud Monitor. Valid values: • TRUE: enable Cloud Monitor • FALSE: do not enable Cloud Monitor Default value: TRUE.

RunSecurityServiceEnabled

Describes information related to the Cloud Security service.

Used by actions: CreateLaunchTemplateVersion, InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, RunInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable Cloud Security. Valid values: • TRUE: enable Cloud Security • FALSE: do not enable Cloud Security Default value: TRUE.

SharePermission

Describes image sharing information.

Used by actions: DescribeImageSharePermission.

Name	Type	Description
CreatedTime	Timestamp ISO8601	Time when an image was shared.
AccountId	String	ID of the account with which the image is shared.

Snapshot

Describes information on the snapshot associated with an image.

Used by actions: DescribeImages.

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Name	Type	Description
SnapshotId	String	Snapshot ID.
DiskUsage	String	Type of the cloud disk used to create the snapshot. Valid values: SYSTEM_DISK: system disk DATA_DISK: data disk
DiskSize	Integer	Size of the cloud disk used to create the snapshot; unit: GB.

SpotMarketOptions

Options related to bidding.

Used by actions: CreateLaunchTemplateVersion, InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
MaxPrice	String	Yes	Bidding price
SpotInstanceType	String	No	Bidding request type. Currently only "one-time" is supported.

StorageBlock

Information on local HDD storage.

Used by actions: CreateLaunchTemplateVersion, DescribeZoneInstanceConfigInfos, RunInstances.

Name	Type	Required	Description
Type	String	Yes	Local HDD storage type. Value: LOCAL_PRO. Note: This field may return null, indicating that no valid value is found.
MinSize	Integer	Yes	Minimum capacity of local HDD storage Note: This field may return null, indicating that no valid value is found.
MaxSize	Integer	Yes	Maximum capacity of local HDD storage Note: This field may return null, indicating that no valid value is found.

SyncImage

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Image sync information

Used by actions: SyncImages.

Name	Type	Description
ImageId	String	Image ID
Region	String	Region

SystemDisk

Describes information on the block device where the operating system is stored, i.e., the system disk.

Used by actions: CreateLaunchTemplateVersion, DescribeInstances, DescribeLaunchTemplateVersions, InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, ResizeInstanceDisks, RunInstances.

Name	Type	Required	Description
DiskType	String	No	System disk type. For more information about the limits of system disk types, please see Storage Overview. Valid values: • LOCAL_BASIC: local disk • LOCAL_SSD: local SSD disk • CLOUD_BASIC: HDD cloud disk • CLOUD_SSD: SSD cloud disk • CLOUD_PREMIUM: Premium cloud storage • CLOUD_BSSD: Balanced SSD The disk currently in stock will be used by default.
DiskId	String	No	System disk ID. System disks whose type is `LOCAL_BASIC` or `LOCAL_SSD` do not have an ID and do not support this parameter. It is only used as a response parameter for APIs such as `DescribeInstances`, and cannot be used as a request parameter for APIs such as `RunInstances`.
DiskSize	Integer	No	System disk size; unit: GB; default value: 50 GB.
CdcId	String	No	ID of the dedicated cluster to which the instance belongs.

Tag

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Key-value pair of a tag.

Used by actions: AllocateHosts, CreateImage, CreateKeyPair, CreateLaunchTemplateVersion, DescribeImages, DescribeInstances, DescribeKeyPairs, ImportImage, ImportKeyPair, InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
Key	String	Yes	Tag key
Value	String	Yes	Tag value

TagSpecification

Description of tags associated with resource instances during instance creation.

Used by actions: AllocateHosts, CreateImage, CreateKeyPair, CreateLaunchTemplateVersion, DescribeLaunchTemplateVersions, ImportImage, ImportKeyPair, InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
ResourceType	String	Yes	Resource type. Valid values: `instance` (CVM), `host` (CDH), `image` (for image), and `keypair` (for key). Note: This field may return `null` , indicating that no valid values can be obtained.
Tags	Array of Tag	Yes	Tag pairs Note: This field may return `null` , indicating that no valid values can be obtained.

VirtualPrivateCloud

Describes information on VPC, including subnets, IP addresses, etc.

Used by actions: ConfigureChcAssistVpc, ConfigureChcDeployVpc, CreateLaunchTemplateVersion, DescribeChcHosts, DescribeInstances, DescribeLaunchTemplateVersions, InquiryPriceRunInstances, ModifyInstancesVpcAttribute, RunInstances.

Name	Type	Required	Description

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Name	Type	Required	Description
VpcId	String	Yes	VPC ID in the format of `vpc-xxx` . To obtain valid VPC IDs, you can log in to the console or call the DescribeVpcEx API and look for the `unVpcId` fields in the response. If you specify DEFAULT for both `VpcId` and SubnetId when creating an instance, the default VPC will be used.
SubnetId	String	Yes	VPC subnet ID in the format `subnet-xxx` . To obtain valid subnet IDs, you can log in to the console or call DescribeSubnets and look for the `unSubnetId` fields in the response. If you specify `DEFAULT` for both `SubnetId` and `VpcId` when creating an instance, the default VPC will be used.
AsVpcGateway	Boolean	No	Whether to use a CVM instance as a public gateway. The public gateway is only available when the instance has a public IP and resides in a VPC. Valid values: • `TRUE` : yes; • `FALSE` : no Default: `FALSE` .
PrivateIpAddresses	Array of String	No	Array of VPC subnet IPs. You can use this parameter when creating instances or modifying VPC attributes of instances. Currently you can specify multiple IPs in one subnet only when creating multiple instances at the same time.
Ipv6AddressCount	Integer	No	Number of IPv6 addresses randomly generated for the ENI.

ZoneInfo

Information on availability zones.

Used by actions: DescribeZones.

Name	Type	Description
Zone	String	Availability zone name, such as `ap-guangzhou-3` . The following is a list of all availability zones: • ap-chongqing-1 • ap-seoul-1 • ap-seoul-2 • ap-chengdu-1

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Name	Type	Description
		• ap-chengdu-2 • ap-hongkong-1 (resource out of stock) • ap-hongkong-2 • ap-hongkong-3 • ap-shenzhen-fsi-1 • ap-shenzhen-fsi-2 • ap-shenzhen-fsi-3 • ap-guangzhou-1 (resource out of stock) • ap-guangzhou-2 (resource out of stock) • ap-guangzhou-3 • ap-guangzhou-4 • ap-guangzhou-6 • ap-guangzhou-7 • ap-tokyo-1 • ap-tokyo-2 • ap-singapore-1 • ap-singapore-2 • ap-singapore-3 • ap-singapore-4 • ap-shanghai-fsi-1 • ap-shanghai-fsi-2 • ap-shanghai-fsi-3 • ap-bangkok-1 • ap-bangkok-2 • ap-shanghai-1 (resource out of stock) • ap-shanghai-2 • ap-shanghai-3 • ap-shanghai-4 • ap-shanghai-5 • ap-shanghai-8 • ap-mumbai-1 • ap-mumbai-2 • eu-moscow-1 • ap-beijing-1 (resource out of stock) • ap-beijing-2 • ap-beijing-3 • ap-beijing-4 • ap-beijing-5 • ap-beijing-6 • ap-beijing-7 • na-siliconvalley-1 • na-siliconvalley-2 • eu-frankfurt-1 • eu-frankfurt-2

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Name	Type	Description
		• na-toronto-1 • na-ashburn-1 • na-ashburn-2 • ap-nanjing-1 • ap-nanjing-2 • ap-nanjing-3 • sa-saopaulo-1 • ap-jakarta-1 • ap-jakarta-2
ZoneName	String	Availability zone description, such as Guangzhou Zone 3.
ZoneId	String	Availability zone ID.
ZoneState	String	Availability zone status. Valid values: `AVAILABLE` : available; `UNAVAILABLE` : unavailable.

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Error Codes

Last updated：2024-06-05 14:37:19

Feature Description

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

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

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

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	`Authorization` in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.

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

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Error Code	Description
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
AccountQualificationRestrictions	Your account failed the qualification verification.
AuthFailure.CamRoleNameAuthenticateFailed	Role name authentication failed.
EniNotAllowedChangeSubnet	ENIs do not support changing subne
FailedOperation.AccountAlreadyExists	The account already exists.
FailedOperation.AccountIsYourSelf	You cannot share images with yours

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Error Code	Description
FailedOperation.BYOLImageShareFailed	BYOL images cannot be shared.
FailedOperation.DisasterRecoverGroupNotFound	The specified spread placement grc does not exist.
FailedOperation.IllegalTagKey	The tag key contains invalid charact
FailedOperation.IllegalTagValue	The tag value contains invalid chara
FailedOperation.InquiryPriceFailed	Price query failed.
FailedOperation.InquiryRefundPriceFailed	Failed to query the refund: the paym order is not found. Check whether th instance `ins-xxxxxxx` has exp
FailedOperation.InvalidImageState	The image is busy. Please try again
FailedOperation.InvalidInstanceApplicationRole	
FailedOperation.InvalidInstanceApplicationRoleEmr	The EMR instance `ins-xxxxxxx` does not support this operation.
FailedOperation.NoAvailableIpAddressCountInSubnet	No available IPs in the subnet.
FailedOperation.NotFoundEIP	This instance does not bind an EIP.
FailedOperation.NotMasterAccount	You're using a collaborator account Please enter a root account.
FailedOperation.PlacementSetNotEmpty	The specified placement group is nc empty.
FailedOperation.PromotionalPerioRestriction	The configuration or billing mode of CVM instances purchased during th promotion period cannot be modifie
FailedOperation.PromotionalRegionRestriction	The service is not available in this country/region.
FailedOperation.QImageShareFailed	Image sharing failed.
FailedOperation.RImageShareFailed	Image sharing failed.
FailedOperation.SecurityGroupActionFailed	Security group operation failed.

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Error Code	Description
FailedOperation.SnapshotSizeLargerThanDataSize	The snapshot size is larger than the capacity. You need a larger disk spa
FailedOperation.SnapshotSizeLessThanDataSize	The snapshot size should be larger the cloud disk capacity.
FailedOperation.TagKeyReserved	The tag key specified in the request reserved for the system.
FailedOperation.TatAgentNotSupport	This image is not a Linux&x86_64 ir
FailedOperation.Unreturnable	The instance is unreturnable.
ImageQuotaLimitExceeded	The image quota has been exceede
InstancesQuotaLimitExceeded	You are trying to create more instan than your remaining quota allows.
InternalError.TradeUnknownError	Internal error.
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	The account has unpaid orders.
InvalidAccountId.NotFound	Invalid account ID.
InvalidAccountIs.YourSelf	You cannot share images with yours
InvalidClientToken.TooLong	The specified ClientToken exceeds maximum length of 64 bytes.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	`Filter`
InvalidHost.NotSupported	The specified operation on this CDH instance is not support .
InvalidHostId.Malformed	Invalid CDH `ID` . The specified CI `ID` has an invalid format. For exa `host-1122` has an invalid `ID` length.

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Error Code	Description
InvalidHostId.NotFound	The specified HostId does not exist, does not belong to your account.
InvalidImageId.InShared	The image is being shared.
InvalidImageId.IncorrectState	Invalid image status.
InvalidImageId.Malformed	Invalid image ID format.
InvalidImageId.NotFound	The image cannot be found.
InvalidImageId.TooLarge	The image size exceeds the limit.
InvalidImageName.Duplicate	The specified image name already e
InvalidImageOsType.Unsupported	The operating system type is not supported.
InvalidImageOsVersion.Unsupported	The operating system version is not supported.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.Malformed	Invalid instance `ID` . The specifie instance `ID` has an invalid format example, `ins-1122` has an inva `ID` length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceName.TooLong	The specified InstanceName exceed maximum length of 60 bytes.
InvalidInstanceState	This operation cannot be performed to the current instance status.
InvalidInstanceType.Malformed	The specified `InstanceType` parameter has an invalid format.
InvalidKeyPair.LimitExceeded	The number of key pairs exceeds th limit.

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Error Code	Description
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified ke ID has an invalid format. For examp `skey-1122` has an invalid `ID` length.
InvalidKeyPairId.NotFound	Invalid key pair ID. The specified ke ID does not exist.
InvalidKeyPairName.Duplicate	Key pair name already exists.
InvalidKeyPairNameEmpty	The key name cannot be empty.
InvalidKeyPairNameIncludeIllegalChar	The key name contains invalid characters. Key names can only cor letters, numbers and underscores.
InvalidKeyPairNameTooLong	The key name cannot exceed 25 characters.
InvalidParameter.AtMostOne	Up to one parameter can be specifie
InvalidParameter.CdcNotSupported	
InvalidParameter.DataDiskIdContainsRootDisk	RootDisk ID should not be passed t DataDiskIds.
InvalidParameter.DataDiskNotBelongSpecifiedInstance	The specified data disk does not be to the specified instance.
InvalidParameter.DuplicateSystemSnapshots	Only one system disk snapshot can included.
InvalidParameter.HostIdStatusNotSupport	This operation is not supported und current status of the CVM.
InvalidParameter.HostNameIllegal	The specified HostName is invalid.
InvalidParameter.ImageIdsSnapshotIdsMustOne	Either `ImageIds` or `Snapshot` must be specified.
InvalidParameter.InstanceImageNotSupport	This API does not support instance images.
InvalidParameter.InternetAccessibleNotSupported	Unable to set the public network bandwidth.

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Error Code	Description
InvalidParameter.InvalidDependence	Invalid parameter dependency.
InvalidParameter.InvalidIpFormat	Invalid VPC IP address format.
InvalidParameter.InvalidParameterCoexistImageIdsFilters	`ImageIds` and `Filters` can be specified at the same time.
InvalidParameter.InvalidParameterUrlError	Invalid URL.
InvalidParameter.LackCoreCountOrThreadPerCore	`CoreCount` and `ThreadPerC` must be specified at the same time.
InvalidParameter.LocalDataDiskNotSupport	Local data disks cannot be used to instance images.
InvalidParameter.ParameterConflict	Specifying an SSH key will override original one of the image.
InvalidParameter.PasswordNotSupported	Setting login password is not suppo
InvalidParameter.SnapshotNotFound	The specified snapshot does not exi
InvalidParameter.SpecifyOneParameter	At least one of the multiple paramet must be passed in.
InvalidParameter.SwapDiskNotSupport	Swap disks are not supported.
InvalidParameter.SystemSnapshotNotFound	The parameter does not contain sys disk snapshot.
InvalidParameter.ValueTooLarge	The length of parameter exceeds th limit.
InvalidParameterCombination	The parameter combination is invali
InvalidParameterConflict	The two specified parameters confli EIP can only be bound to the instan the specified private IP of the specif ENI.
InvalidParameterValue.AmountNotEqual	The number of request parameters not equal.

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Error Code	Description
InvalidParameterValue.BandwidthPackageIdMalformed	The shared bandwidth package ID i invalid. Please provide a standard s bandwidth package ID in the format similar to bwp-xxxxxxxx. In this form the letter x stands for a lowercase character or a number.
InvalidParameterValue.BandwidthPackageIdNotFound	The specified bandwidth package d not exist.
InvalidParameterValue.BasicNetworkInstanceFamily	Only VPC is supported. The networl of the instance is classic network, w cannot be changed.
InvalidParameterValue.BucketNotFound	The bucket does not exist.
InvalidParameterValue.CamRoleNameMalformed	Invalid `CamRoleName` . This para must contain only letters, numbers a symbols (`+` , `=` , `,` , `.` , `@` `-`).
InvalidParameterValue.CdhOnlyLocalDataDiskResize	
InvalidParameterValue.ChcHostsNotFound	Corresponding CHC hosts not found
InvalidParameterValue.ChcNetworkEmpty	No network is configured for this CH
InvalidParameterValue.CloudSsdDataDiskSizeTooSmall	The minimum capacity of a SSD dat disk is 100 GB.
InvalidParameterValue.CoreCountValue	Invalid number of cores.
InvalidParameterValue.DedicatedClusterNotSupportedChargeType	
InvalidParameterValue.DeployVpcAlreadyExists	A deployment VPC already exists.
InvalidParameterValue.DisasterRecoverGroupIdMalformed	Incorrect placement group ID forma
InvalidParameterValue.Duplicate	Duplicate parameter value.
InvalidParameterValue.DuplicateTags	Duplicate tags.
InvalidParameterValue.GPUInstanceFamily	Non-GPU instances cannot be char to the GPU instance.
InvalidParameterValue.HpcClusterIdZoneIdNotMatch	

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Error Code	Description
InvalidParameterValue.IPAddressMalformed	Invalid IP format
InvalidParameterValue.IPv6AddressMalformed	Invalid IPv6 address
InvalidParameterValue.IllegalHostName	The value of HostName is invalid.
InvalidParameterValue.IncorrectFormat	Incorrect request parameter format.
InvalidParameterValue.InstanceIdMalformed	Invalid instance ID. Please enter a v ID, such as ins-xxxxxxxx (“x” repres lower-case letter or a number).
InvalidParameterValue.InstanceTypeNotFound	The specified instance type does nc exist.
InvalidParameterValue.InstanceTypeNotSupportHpcCluster	This type of instances cannot be ad the HPC cluster.
InvalidParameterValue.InstanceTypeRequiredHpcCluster	The HPC cluster needs to be specifi the high-performance computing instance.
InvalidParameterValue.InsufficientOffering	The spot instances are out of stock.
InvalidParameterValue.InsufficientPrice	The bid is lower than the market pri
InvalidParameterValue.InvalidAppIdFormat	Invalid AppID
InvalidParameterValue.InvalidBootMode	Unsupported boot mode.
InvalidParameterValue.InvalidBucketPermissionForExport	You don’t have the write permission the bucket.
InvalidParameterValue.InvalidFileNamePrefixList	The length of `FileNamePrefixL` does not match `ImageIds` or `SnapshotIds` .
InvalidParameterValue.InvalidGPUFamilyChange	Converting to a non-GPU or other ty GPU instance is not supported.
InvalidParameterValue.InvalidImageForGivenInstanceType	The specified image does not suppo specified instance type.
InvalidParameterValue.InvalidImageFormat	A RAW image cannot be used to cre CVM. Choose another image.

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Error Code	Description
InvalidParameterValue.InvalidImageId	The image does not support this operation.
InvalidParameterValue.InvalidImageIdForRetsetInstance	The image cannot be used to reinst current instance.
InvalidParameterValue.InvalidImageIdIsShared	
InvalidParameterValue.InvalidImageOsName	The operating system of the specifie image is not available in the current region.
InvalidParameterValue.InvalidImageState	The image has another ongoing tasl Please check and try again later.
InvalidParameterValue.InvalidInstanceSource	The instance configuration is upgrac for free and cannot be downgraded 3 months.
InvalidParameterValue.InvalidIpFormat	Invalid IP address.
InvalidParameterValue.InvalidLaunchTemplateName	Incorrect format of instance launch template name.
InvalidParameterValue.InvalidLaunchTemplateVersionDescription	Incorrect format of instance launch template version description.
InvalidParameterValue.InvalidLicenseType	Invalid license type.
InvalidParameterValue.InvalidParameterValueLimit	Invalid parameter value.
InvalidParameterValue.InvalidPassword	Invalid password. The specified password does not meet the comple requirements (e.g., too long or too sl
InvalidParameterValue.InvalidRegion	The Region ID is unavailable.
InvalidParameterValue.InvalidTimeFormat	Incorrect time format.
InvalidParameterValue.InvalidUserDataFormat	Incorrect UserData format. Use the Base64-encoded format.
InvalidParameterValue.InvalidVagueName	Invalid fuzzy query string
InvalidParameterValue.KeyPairNotFound	The key does not exist.

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Error Code	Description
InvalidParameterValue.KeyPairNotSupported	The specified key does not support operation.
InvalidParameterValue.LaunchTemplateDefaultVersion	The default launch template version cannot be operated.
InvalidParameterValue.LaunchTemplateIdMalformed	Incorrect format of instance launch template ID.
InvalidParameterValue.LaunchTemplateIdNotExisted	The instance launch template ID do exist.
InvalidParameterValue.LaunchTemplateIdVerNotExisted	The combination of the template an version ID does not exist.
InvalidParameterValue.LaunchTemplateIdVerSetAlready	The specified instance launch templ doesn't exist.
InvalidParameterValue.LaunchTemplateNotFound	The instance launch template is not found.
InvalidParameterValue.LaunchTemplateVersion	Invalid instance launch template ver number.
InvalidParameterValue.LimitExceeded	The number of parameter values ex the limit.
InvalidParameterValue.MustDhcpEnabledVpc	The parameter value must be a DH enabled VPC.
InvalidParameterValue.NotCdcSubnet	The subnet is not in the CDC cluste
InvalidParameterValue.NotEmpty	The parameter value is required.
InvalidParameterValue.NotSupported	Unsupported operation.
InvalidParameterValue.PreheatNotSupportedInstanceType	Preheating is not supported on this model.
InvalidParameterValue.PreheatNotSupportedZone	Preheating is not supported in this availability zone.
InvalidParameterValue.PreheatUnavailableZones	
InvalidParameterValue.Range	Invalid parameter value: invalid parameter value range.

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Error Code	Description
InvalidParameterValue.RequiredLocationImage	
InvalidParameterValue.SnapshotIdMalformed	Invalid snapshot ID. Provide a snap ID in the format of snap-xxxxxxxx, w the letter x refers to lowercase letter number.
InvalidParameterValue.SubnetIdMalformed	Invalid subnet ID. Please provide a subnet ID in the format of subnet-xxxxxxxx, where “x” can be a lowerc letter or number.
InvalidParameterValue.SubnetNotExist	Creation failed: the subnet does not Please specify another subnet.
InvalidParameterValue.TagKeyNotFound	The specified tag does not exist
InvalidParameterValue.TagQuotaLimitExceeded	Tag quota limit exceeded.
InvalidParameterValue.ThreadPerCoreValue	Invalid thread count per core.
InvalidParameterValue.TooLarge	The parameter value exceeds the maximum limit.
InvalidParameterValue.TooLong	Invalid parameter value: parameter is too long.
InvalidParameterValue.UuidMalformed	Invalid UUID.
InvalidParameterValue.VpcIdMalformed	The VPC ID `xxx` is invalid. Pleas provide a VPC ID in the format of vp xxxxxxxx, where “x” can be a lowerc letter or number.
InvalidParameterValue.VpcIdNotExist	The specified VpcId doesn't exist.
InvalidParameterValue.VpcIdZoneIdNotMatch	The VPC and instance must be in th same availability zone.
InvalidParameterValue.VpcNotSupportIpv6Address	This VPC does not support the IPv6 addresses.
InvalidParameterValue.ZoneNotSupported	The availability zone does not suppo this operation.

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Error Code	Description
InvalidParameterValueLimit	The number of parameter values ex the limit.
InvalidParameterValueOffset	Invalid parameter value: invalid `Offset` .
InvalidPassword	Invalid password. The specified password does not meet the passw requirements. For example, the pas length does not meet the requireme
InvalidPeriod	Invalid period. Valid values: [1, 2, 3, 6, 7, 8, 9, 10, 11, 12, 24, 36]; unit: m
InvalidPermission	This operation is not supported for t account.
InvalidProjectId.NotFound	Invalid project ID: the specified proje does not exist.
InvalidPublicKey.Duplicate	Invalid public key: the specified key already exists.
InvalidPublicKey.Malformed	Invalid public key: the specified pub does not meet the `OpenSSH RSA` format requirements.
InvalidRegion.NotFound	The region cannot be found.
InvalidRegion.Unavailable	Currently this region does not suppo image synchronization.
InvalidSecurityGroupId.NotFound	The specified `security group` does not exist.
InvalidSgId.Malformed	The specified `security group` is in the wrong format. For example, `sg-ide32` has an invalid `inst ID` length.
InvalidZone.MismatchRegion	The specified `zone` does not exis
LimitExceeded.AssociateUSGLimitExceeded	An instance can be bound with up to security groups.

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Error Code	Description
LimitExceeded.CvmsVifsPerSecGroupLimitExceeded	The CVM ENIs associated with the security group has exceeded the lim
LimitExceeded.DisasterRecoverGroup	The quota of the specified placemer group is insufficient.
LimitExceeded.EipNumLimit	The number of EIPs of an ENI conta in a specific instance has exceeded maximum allowed EIPs of the target instance type. Please delete some E and try again.
LimitExceeded.EniLimitInstanceType	
LimitExceeded.EniNumLimit	The number of ENIs on a specified instance exceeds the maximum ENI allowed for the target instance type. Delete some ENIs and try again.
LimitExceeded.ExportImageTaskLimitExceeded	The number of image export tasks i progress reached the upper limit. Pl try again after the running tasks are completed.
LimitExceeded.IPv6AddressNum	Number of IPs on this ENI reached upper limit.
LimitExceeded.InstanceEniNumLimit	Reached the upper limit of the ENIs the instance.
LimitExceeded.InstanceQuota	You are short of the instance quota.
LimitExceeded.InstanceTypeBandwidth	Unable to adjust: the target instance does not support the configured pub network bandwidth cap. See Public Network Bandwidth Cap.
LimitExceeded.LaunchTemplateQuota	The number of instance launch tem exceeds the limit.
LimitExceeded.LaunchTemplateVersionQuota	The number of instance launch tem versions exceeds the limit.

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Error Code	Description
LimitExceeded.PreheatImageSnapshotOutOfQuota	Reached the upper limit for preheati this availability zone. Remove some snapshots first.
LimitExceeded.PrepayQuota	Your quota for monthly-subscribed instances is used up. Increase your and try again.
LimitExceeded.PrepayUnderwriteQuota	
LimitExceeded.SingleUSGQuota	The number of security groups exce the quota limit.
LimitExceeded.SpotQuota	The spot instance offerings are out c stock.
LimitExceeded.TagResourceQuota	Exceeded the upper limit of resourc bound to the tag.
LimitExceeded.UserReturnQuota	Failed to return instances because c quota limit.
LimitExceeded.UserSpotQuota	You are short of the spot instance q
LimitExceeded.VpcSubnetNum	Insufficient subnet IPs.
MissingParameter.AtLeastOne	Parameter missing. Provide at least parameter.
MissingParameter.DPDKInstanceTypeRequiredVPC	The DPDK instance requires a VPC
MissingParameter.MonitorService	The instance type must have Cloud Monitor enabled.
MutexOperation.TaskRunning	An identical job is running.
OperationDenied.AccountNotSupported	
OperationDenied.ChcInstallCloudImageWithoutDeployNetwork	A CHC instance without network configured is not allowed for the installation of a cloud image
OperationDenied.InnerUserProhibitAction	Operation denied: This is a restricte account.

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Error Code	Description
OperationDenied.InstanceOperationInProgress	The instance has an operation in progress. Please try again later.
OverQuota	The number of shared images exce the quota.
RegionAbilityLimit.UnsupportedToImportImage	This region does not support import images.
ResourceInUse.DiskRollbacking	
ResourceInsufficient.AvailabilityZoneSoldOut	The availability zone has been sold
ResourceInsufficient.CidrBlock	
ResourceInsufficient.CloudDiskSoldOut	The specified cloud disk has been s out.
ResourceInsufficient.CloudDiskUnavailable	The parameters of cloud disk do no the specification.
ResourceInsufficient.DisasterRecoverGroupCvmQuota	The number of instances exceeded quota limit of spread placement grou
ResourceInsufficient.InsufficientGroupQuota	
ResourceInsufficient.SpecifiedInstanceType	The specified instance type is insuffi
ResourceInsufficient.ZoneSoldOutForSpecifiedInstance	The instances of the specified types sold out in the selected AZs.
ResourceNotFound.HpcCluster	The HPC cluster does not exist.
ResourceNotFound.InvalidPlacementSet	The specified placement group does exist.
ResourceNotFound.InvalidZoneInstanceType	This instance type is not supported AZ.
ResourceNotFound.KeyPairNotFound	
ResourceNotFound.NoDefaultCbs	No default CBS resources are availa
ResourceNotFound.NoDefaultCbsWithReason	No default CBS resources are availa

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Error Code	Description
ResourceUnavailable.InstanceType	This instance type is unavailable in t availability zone.
ResourceUnavailable.SnapshotCreating	The snapshot is being created.
ResourcesSoldOut.AvailableZone	Resources in this availability zone h been sold out.
ResourcesSoldOut.EipInsufficient	The public IP has been sold out.
ResourcesSoldOut.SpecifiedInstanceType	The specified instance type is sold c
SecGroupActionFailure	A general error occurred during the security group service API call.
UnauthorizedOperation.ImageNotBelongToAccount	The specified image does not belon the user.
UnauthorizedOperation.InvalidToken	Check if the token is valid.
UnauthorizedOperation.MFAExpired	Unauthorized operation. Make sure Factor Authentication (MFA) is valic
UnauthorizedOperation.MFANotFound	Unauthorized operation. Make sure Factor Authentication (MFA) exists.
UnauthorizedOperation.PermissionDenied	You're not authorized for the operat Please check the CAM policy.
UnsupportedOperation.BandwidthPackageIdNotSupported	The specified instance or network ca use the bandwidth package.
UnsupportedOperation.DiskSnapCreateTimeTooOld	Only one snapshot can be created in hours.
UnsupportedOperation.EdgeZoneInstance	
UnsupportedOperation.ElasticNetworkInterface	An ENI is bound to the CVM. Please unbind the ENI from the CVM before switching to VPC.
UnsupportedOperation.EncryptedImagesNotSupported	Encrypted images are not supported
UnsupportedOperation.HeterogeneousChangeInstanceFamily	You cannot change the model of a heterogeneous instance.

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Error Code	Description
UnsupportedOperation.HibernationForNormalInstance	Instances with hibernation disabled not supported.
UnsupportedOperation.HibernationOsVersion	
UnsupportedOperation.IPv6NotSupportVpcMigrate	IPv6 instances cannot be migrated f Classiclink to VPC.
UnsupportedOperation.ImageTooLargeExportUnsupported	Failed to export the image: The imag too large.
UnsupportedOperation.InstanceChargeType	This instance billing mode does not support the operation.
UnsupportedOperation.InstanceMixedPricingModel	A mixed payment mode is not suppo
UnsupportedOperation.InstanceOsWindows	The instance `ins-xxxxxx` with `Xserver windows2012cndatacenterx86` operating system does not support t operation.
UnsupportedOperation.InstanceReinstallFailed	
UnsupportedOperation.InstanceStateBanning	This CVM is blocked. Please submit ticket.
UnsupportedOperation.InstanceStateCorrupted	The instances are permanently corr and this operation is not supported.
UnsupportedOperation.InstanceStateEnterRescueMode	Instances are entering the rescue m and this operation is not supported.
UnsupportedOperation.InstanceStateEnterServiceLiveMigrate	The instance `ins-xxxxxx` in the `ENTER_SERVICE_LIVE_MIGRAT` status is not supported.
UnsupportedOperation.InstanceStateExitRescueMode	Instances are exiting from the rescu mode, and this operation is not supported.
UnsupportedOperation.InstanceStateExitServiceLiveMigrate	The instance `ins-xxxxxx` in the `EXIT_SERVICE_LIVE_MIGRATE` status is not supported.

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Error Code	Description
UnsupportedOperation.InstanceStateFreezing	The operation is not supported for th frozen instances.
UnsupportedOperation.InstanceStateIsolating	Unable to isolate: the instance is iso
UnsupportedOperation.InstanceStateLaunchFailed	The instance is failed to create, so th operation is not supported.
UnsupportedOperation.InstanceStatePending	The instances are being created, ar operation is not supported.
UnsupportedOperation.InstanceStateRebooting	The instances are being restarted, a this operation is not supported.
UnsupportedOperation.InstanceStateRescueMode	Instances in the rescue mode are no available for this operation.
UnsupportedOperation.InstanceStateRunning	Running instances do not support th operation.
UnsupportedOperation.InstanceStateServiceLiveMigrate	The instances are being migrated, a this operation is not supported.
UnsupportedOperation.InstanceStateShutdown	Isolated instances do not support th operation.
UnsupportedOperation.InstanceStateStarting	The instance is starting up, and this operation is not supported.
UnsupportedOperation.InstanceStateStopped	The instance has been shut down, a this operation is not supported.
UnsupportedOperation.InstanceStateStopping	The instance is being shut down, ar operation is not supported.
UnsupportedOperation.InstanceStateTerminated	Terminated instances are not suppo
UnsupportedOperation.InstanceStateTerminating	The instance is being terminated, ar operation is not supported.
UnsupportedOperation.InstancesProtected	The instance is under termination protection and cannot be terminated Disable the termination protection a again.
UnsupportedOperation.InvalidDataDisk	Adjusting the data disk is not suppo

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Error Code	Description
UnsupportedOperation.InvalidDisk	The specified disk is not supported.
UnsupportedOperation.InvalidDiskFastRollback	
UnsupportedOperation.InvalidImageLicenseTypeForReset	The image license type does not ma the instance. Select another image.
UnsupportedOperation.InvalidInstanceNotSupportedProtectedInstance	This operation is not supported for t instance with a termination schedul Please cancel the scheduled termin time in the instance details page an again.
UnsupportedOperation.InvalidInstanceWithSwapDisk	Instances with swap disks are not supported.
UnsupportedOperation.InvalidInstancesOwner	
UnsupportedOperation.InvalidPermissionNonInternationalAccount	The current operation is only suppo for Tencent Cloud International use
UnsupportedOperation.InvalidRegionDiskEncrypt	Encrypted disks are not available in selected regions.
UnsupportedOperation.KeyPairUnsupportedWindows	Key-pair login is not available to Wi instances.
UnsupportedOperation.LocalDataDiskChangeInstanceFamily	A model whose data disks are all lo disks does not support cross-model configuration adjustment.
UnsupportedOperation.LocalDiskMigratingToCloudDisk	The specified disk is converting to a disk. Try again later.
UnsupportedOperation.LocationImageNotSupported	
UnsupportedOperation.MarketImageExportUnsupported	The custom images created with the market images cannot be exported.
UnsupportedOperation.ModifyEncryptionNotSupported	Encryption attributes of the system cannot be modified.
UnsupportedOperation.ModifyVPCWithCLB	An instance bound with CLB does n support modifying its VPC attributes

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Error Code	Description
UnsupportedOperation.ModifyVPCWithClassLink	This instance is configured with ClassLink. Please cancel the associ and continue.
UnsupportedOperation.NoInstanceTypeSupportSpot	This instance type does not support instances.
UnsupportedOperation.NoVpcNetwork	A physical network is not supported this instance.
UnsupportedOperation.NotSupportImportInstancesActionTimer	Failed to configure the scheduled ac for the current instance.
UnsupportedOperation.NotSupportInstanceImage	The instance does not support this operation.
UnsupportedOperation.NotSupportUnpaidOrder	
UnsupportedOperation.OnlyForPrepaidAccount	Only a prepaid account supports thi operation.
UnsupportedOperation.OriginalInstanceTypeInvalid	The original instance type is invalid.
UnsupportedOperation.PreheatImage	Image preheating is not supported u your account.
UnsupportedOperation.PublicImageExportUnsupported	Public images and market images c be exported.
UnsupportedOperation.RawLocalDiskInsReinstalltoQcow2	This image does not support instanc reinstallation.
UnsupportedOperation.RedHatImageExportUnsupported	The RedHat image cannot be expor
UnsupportedOperation.RedHatInstanceTerminateUnsupported	An instance with an enterprise opera system installed cannot be returned
UnsupportedOperation.RedHatInstanceUnsupported	The operating system of the instanc RedHat, so this operation is not supported.
UnsupportedOperation.Region	The region is unsupported.
UnsupportedOperation.ReservedInstanceInvisibleForUser	Purchasing reserved instances is no supported for the current user.

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Error Code	Description
UnsupportedOperation.ReservedInstanceOutofQuata	You've used up your quota for Rese Instances.
UnsupportedOperation.SharedImageExportUnsupported	Shared images cannot be exported.
UnsupportedOperation.SpecialInstanceType	This special instance type does not support the operation.
UnsupportedOperation.SpotUnsupportedRegion	Spot instance is not supported in thi region.
UnsupportedOperation.StoppedModeStopCharging	The instance does not support the **n charges when shut down** feature
UnsupportedOperation.StoppedModeStopChargingSameFamily	Configuration adjustment of the sam type is not supported for instances v no charges when shut down.
UnsupportedOperation.SystemDiskType	
UnsupportedOperation.UnderwritingInstanceTypeOnlySupportAutoRenew	For an underwriting instance, `RenewFlag` can only be set to `NOTIFY_AND_AUTO_RENEW`.
UnsupportedOperation.UnsupportedARMChangeInstanceFamily	
UnsupportedOperation.UnsupportedChangeInstanceFamily	The specified model does not suppo cross-model configuration adjustme
UnsupportedOperation.UnsupportedChangeInstanceFamilyToARM	Non-ARM model instances cannot b changed to the ARM model.
UnsupportedOperation.UnsupportedChangeInstanceToThisInstanceFamily	Changing to this model type for this instance is not allowed.
UnsupportedOperation.UnsupportedInternationalUser	This operation is not available for Tencent Cloud International users.
UnsupportedOperation.UnsupportedPool	
UnsupportedOperation.UserLimitOperationExceedQuota	The quota of user limit operations is insufficient.
UnsupportedOperation.WindowsImageExportUnsupported	Windows images cannot be exporte
VpcAddrNotInSubNet	The VPC IP address is not in the su

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Error Code	Description
VpcIpIsUsed	The VPC IP address is already occu

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