

轻量应用服务器

API 文档

产品文档



腾讯云

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History

最近更新时间：2023-12-04 16:31:51

Release 11

Release time: 2023-12-04 16:29:45

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateDisks](#)
- [IsolateDisks](#)
- [RenewDisks](#)
- [RenewInstances](#)

New data structures:

- [AutoMountConfiguration](#)

Modified data structures:

- [LoginConfiguration](#)
 - New members:KeyIds
 - **Modified members:** AutoGeneratePassword

Release 10

Release time: 2023-05-22 15:11:08

Release updates:

Improvement to existing documentation.

New APIs:

- [IsolateInstances](#)
- [ModifyInstancesBundle](#)

Modified APIs:

- [CreateBlueprint](#)
 - New input parameters:ForcePowerOff

Modified data structures:

- [Bundle](#)
 - New members:BundleTypeDescription

Release 9

Release time: 2023-03-14 16:19:04

Release updates:

Improvement to existing documentation.

Modified APIs:

- [InquirePriceCreateInstances](#)
 - **Modified input parameters:** InstanceChargePrepaid
- [InquirePriceRenewInstances](#)
 - **Modified input parameters:** InstanceChargePrepaid

Modified data structures:

- [Blueprint](#)
 - New members:DockeVersion

Release 8

Release time: 2023-02-06 10:25:45

Release updates:

Improvement to existing documentation.

Modified data structures:

- [InstancePrice](#)
 - New members:Currency
 - **Modified members:** OriginalBundlePrice, OriginalPrice, Discount, DiscountPrice

- [PolicyDetail](#)
 - New members:ActivityDiscount, DiscountType
 - **Modified members:** UserDiscount, CommonDiscount, FinalDiscount

Release 7

Release time: 2022-12-14 10:12:11

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeAllScenes](#)
- [DescribeScenes](#)

Modified APIs:

- [InquirePriceRenewInstances](#)
 - New output parameters:InstancePriceDetailSet, TotalPrice

New data structures:

- [InstancePriceDetail](#)
- [Scene](#)
- [SceneInfo](#)
- [TotalPrice](#)

Modified data structures:

- [DataDiskPrice](#)
 - New members:Instanceld

Release 6

Release time: 2022-09-26 16:57:31

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateInstances](#)
 - New input parameters:AutoVoucher
- [DescribeDiskDiscount](#)
 - New input parameters:DiskBackupQuota
- [InquirePriceCreateDisks](#)
 - New input parameters:DiskBackupQuota

New data structures:

- [DetailPrice](#)

Modified data structures:

- [Blueprint](#)
 - New members:CommunityUrl, GuideUrl, SceneldSet
- [Disk](#)
 - New members:DiskBackupCount, DiskBackupQuota
- [DiskPrice](#)
 - New members:DetailPrices
- [Instance](#)
 - New members:InstanceRestrictState
- [LoginConfiguration](#)
 - New members:AutoGeneratePassword, Password

Release 5

Release time: 2022-06-24 10:34:21

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateInstances](#)
- [DescribeGeneralResourceQuotas](#)
- [DescribeInstances](#)
- [InquirePriceRenewInstances](#)

New data structures:

- [ContainerEnv](#)
- [DataDiskPrice](#)
- [DockerContainerConfiguration](#)
- [DockerContainerPublishPort](#)
- [DockerContainerVolume](#)
- [GeneralResourceQuota](#)
- [Instance](#)
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- [LoginSettings](#)
- [SystemDisk](#)
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Release 4

Release time: 2022-06-08 11:30:26

Release updates:

Improvement to existing documentation.

Deleted APIs:

- [CreateInstances](#)
- [DescribeGeneralResourceQuotas](#)
- [DescribeInstances](#)
- [InquirePriceRenewInstances](#)

Modified APIs:

- [DescribeZones](#)
 - New input parameters: OrderField, Order

Deleted data structures:

- [ContainerEnv](#)
- [DataDiskPrice](#)
- [DockerContainerConfiguration](#)
- [DockerContainerPublishPort](#)

- DockerContainerVolume
- GeneralResourceQuota
- Instance
- InternetAccessible
- LoginConfiguration
- LoginSettings
- SystemDisk
- Tag

Release 3

Release time: 2022-03-11 21:35:58

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateInstances](#)

New data structures:

- [ContainerEnv](#)
- [DockerContainerConfiguration](#)
- [DockerContainerPublishPort](#)
- [DockerContainerVolume](#)
- [LoginConfiguration](#)

Modified data structures:

- [ModifyBundle](#)
 - New members:NotSupportModifyMessage

Release 2

Release time: 2022-01-17 14:55:16

Release updates:

Improvement to existing documentation.

New APIs:

- [AttachDisks](#)
- [DescribeBundleDiscount](#)
- [DescribeDiskConfigs](#)
- [DescribeDiskDiscount](#)
- [DescribeDisks](#)
- [DescribeDisksDeniedActions](#)
- [DescribeDisksReturnable](#)
- [DescribeInstancesDiskNum](#)
- [DetachDisks](#)
- [InquirePriceCreateDisks](#)
- [InquirePriceRenewDisks](#)
- [ModifyDisksAttribute](#)
- [ModifyDisksRenewFlag](#)
- [TerminateDisks](#)

Modified APIs:

- [InquirePriceRenewInstances](#)
 - New input parameters:RenewDataDisk, AlignInstanceExpiredTime
 - New output parameters:DataDiskPriceSet

New data structures:

- [AttachDetail](#)
- [DataDiskPrice](#)
- [DiscountDetail](#)
- [Disk](#)
- [DiskChargePrepaid](#)
- [DiskConfig](#)
- [DiskDeniedActions](#)
- [DiskPrice](#)
- [DiskReturnable](#)
- [PolicyDetail](#)
- [RenewDiskChargePrepaid](#)
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Modified data structures:

- [Instance](#)
 - New members:Tags

Release 1

Release time: 2021-09-29 11:44:41

Release updates:

Improvement to existing documentation.

New APIs:

- [ApplyInstanceSnapshot](#)
- [AssociateInstancesKeyPairs](#)
- [AttachCcn](#)
- [CreateBlueprint](#)
- [CreateFirewallRules](#)
- [CreateInstanceSnapshot](#)
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- [ModifyInstancesAttribute](#)
- [ModifyInstancesLoginKeyPairAttribute](#)
- [ModifyInstancesRenewFlag](#)
- [ModifySnapshotAttribute](#)
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New data structures:

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- [BlueprintInstance](#)
- [BlueprintPrice](#)
- [Bundle](#)
- [CcnAttachedInstance](#)
- [DeniedAction](#)
- [Filter](#)
- [FirewallRule](#)
- [FirewallRuleInfo](#)
- [GeneralResourceQuota](#)

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 - [InternetAccessible](#)
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 - [ResetInstanceBlueprint](#)
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 - [SystemDisk](#)
 - [TrafficPackage](#)
 - [ZoneInfo](#)

Introduction

最近更新时间：2022-09-26 17:00:12

Lighthouse is a cloud server that is easy to use and manage and suitable for carrying light business loads. It can help SMEs and developers quickly build various applications, such as websites, blogs, e-commerce and forums, and development and test environments in the cloud. It integrates a one-stop service for application deployment, configuration and management, greatly facilitating the building of applications and offering you the best way to get started with Tencent Cloud.

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

API Category

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Image APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateBlueprint	Creates image	20
DescribeBlueprintInstances	Queries image instance information	10
InquirePriceCreateBlueprint	Queries the price of created image	20
DescribeBlueprints	Queries image information	10
DeleteBlueprints	Deletes image	20
ModifyBlueprintAttribute	Modifies image attribute	20

Snapshot APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ApplyInstanceSnapshot	Rolls back instance snapshot	20
CreateInstanceSnapshot	Creates instance snapshot	20
DeleteSnapshots	Deletes snapshot	20
DescribeSnapshots	Queries snapshot list	20
DescribeSnapshotsDeniedActions	Queries the list of operation limits of instances	20
ModifySnapshotAttribute	Modifies snapshot attribute	20

Firewall APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateFirewallRules	Adds firewall rule	10
DeleteFirewallRules	Deletes firewall rule	10
DescribeFirewallRules	Queries firewall rules	10
DescribeFirewallRulesTemplate	Queries a firewall rule template	10
ModifyFirewallRuleDescription	Modifies firewall rule description	20
ModifyFirewallRules	Modifies firewall rules	20

Instance APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeInstanceVncUrl	Queries the VNC URL of instance	10
DescribeInstancesDeniedActions	Views the list of operation limits of instances	10
DescribeInstancesDiskNum	Queries the number of cloud disks attached to instances	20
DescribeInstancesReturnable	Queries whether the specified instance can be returned	10
DescribeInstancesTrafficPackages	Views the traffic package details of instances	10
DescribeModifyInstanceBundles	Queries the list of package options of instance	20
DescribeResetInstanceBlueprints	Queries the image information of reset instance	20
IsolateInstances	Isolates instances	20

ModifyInstancesBundle	Changes the instance bundle.	20
RebootInstances	Restarts instances	10
RenewInstances	Renews instances	20
ResetInstance	Reinstalls system	10
ResetInstancesPassword	Resets instance password	20
StartInstances	Starts instances	10
StopInstances	Shuts down instances	10
ModifyInstancesAttribute	Modifies instance attribute	10
ModifyInstancesRenewFlag	Modifies the renewal flags of instances	20
CreateInstances	Creates one or more instances	5
DescribeInstances	Views instance list	100
TerminateInstances	Terminates one or more instances	10

Key APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AssociateInstancesKeyPairs	Binds key pair	10
CreateKeyPair	Creates key pair	20
DeleteKeyPairs	Deletes key pair	10
DescribeInstanceLoginKeyPairAttribute	Queries the attributes of default login key of instance	20
DescribeKeyPairs	Queries key pair list	100
DisassociateInstancesKeyPairs	Unbinds key pair	20
ImportKeyPair	Imports key pair	10
ModifyInstancesLoginKeyPairAttribute	Modifies the attributes of default	10

	login key pair of instance	
--	----------------------------	--

CCN APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AttachCcn	Associates CCN instance	20
DescribeCcnAttachedInstances	Queries the information of instances associated with CCN	20
DetachCcn	Unassociates CCN instance	20
ResetAttachCcn	Applies for associating with CCN again	20

Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
InquirePriceCreateInstances	Queries the price of created instance	10
InquirePriceRenewInstances	Queries the price of renewing instances	10

CBS APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AttachDisks	Attaches cloud disks	20
DescribeDiskConfigs	Queries cloud disk configuration	20
DescribeDiskDiscount	Queries the discount information of cloud disk	20
DescribeDisksDeniedActions	Queries the list of operation limits of	20

	cloud disks	
DescribeDisksReturnable	Queries whether the specified cloud disk can be returned	20
DetachDisks	Detaching cloud disks	20
InquirePriceCreateDisks	Query the price of purchasing cloud disks.	20
InquirePriceRenewDisks	Queries the price of renewing cloud disks	20
ModifyDisksAttribute	Modifies cloud disk attributes	20
ModifyDisksRenewFlag	Modifies the configuration of auto-renewal of cloud disks	20
DescribeDisks	Queries cloud disks	20
TerminateDisks	Terminates cloud disks	20
CreateDisks	Creates cloud disks	20
IsolateDisks	Returns cloud disks	20
RenewDisks	Renews cloud disks	20

Scene APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeAllScenes	Queries the list of scenes in all regions	20
DescribeScenes	Queries the list of scenes	20

Package APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeBundleDiscount	Queries package discount	10

DescribeBundles	Queries package	5
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Quota APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeGeneralResourceQuotas	Queries the quota information of general resources	10

Region APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeRegions	Queries region list	10
DescribeZones	Queries AZ list	20

Making API Requests

Request Structure

最近更新时间：2023-03-14 16:30:28

1. Service Address

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

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

Tencent Cloud currently supports the following regions:

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

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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

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

Common parameters for Signature Algorithm v3

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

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

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

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

Example of an HTTP GET request structure:

```

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

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

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

```

https://cvm.tencentcloudapi.com/

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

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

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

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

```
Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
```

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

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

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

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

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

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

```
--58731222010402
```

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

```
0
```

```
--58731222010402
```

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

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

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

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

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

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

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

Example of an HTTP POST request structure:

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

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

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

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Signature v3

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

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

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

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

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

POST

/

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

host:cvm.tencentcloudapi.com

content-type;host

`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in request header, which is the UNIX timestamp of the current time in seconds, such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; <code>service</code> is the product name, which should match the domain name of the product called. The calculation result in this example is <code>20180525/cvm/tc3_request</code> .

HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))) The calculation result in this example is 2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
------------------------	---

Note:

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

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

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

3. Calculating the Signature

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

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

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

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

2. Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

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

The following example shows a finished authorization header:

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



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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

```

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

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

```

Python

```

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

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

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

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

```

```

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

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

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

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

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

Golang

```
package main

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

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

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

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

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

```
canonicalQueryString,  
canonicalHeaders,  
signedHeaders,  
hashedRequestPayload)  
fmt.Println(canonicalRequest)  
  
// step 2: build string to sign  
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")  
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)  
hashedCanonicalRequest := sha256hex(canonicalRequest)  
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",  
algorithm,  
timestamp,  
credentialScope,  
hashedCanonicalRequest)  
fmt.Println(string2sign)  
  
// step 3: sign string  
secretDate := hmacsha256(date, "TC3"+secretKey)  
secretService := hmacsha256(service, secretDate)  
secretSigning := hmacsha256("tc3_request", secretService)  
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))  
fmt.Println(signature)  
  
// step 4: build authorization  
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%  
s",  
algorithm,  
secretId,  
credentialScope,  
signedHeaders,  
signature)  
fmt.Println(authorization)  
  
curl := fmt.Sprintf(`curl -X POST https://%s\  
-H "Authorization: %s"\  
-H "Content-Type: application/json; charset=utf-8"\  
-H "Host: %s" -H "X-TC-Action: %s"\  
-H "X-TC-Timestamp: %d"\  
-H "X-TC-Version: %s"\  
-H "X-TC-Region: %s"\  
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)  
fmt.Println(curl)  
}
```

PHP

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

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

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

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



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

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

Ruby

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

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

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

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

```

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

puts canonical_request

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

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

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

puts 'curl -X POST ' + endpoint \

```

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

DotNet

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

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

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

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

```

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

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

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

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

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

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

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

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

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

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

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

NodeJS

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

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

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

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

function main(){

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

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

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

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

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

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

```

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

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

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

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

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

C++

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

using namespace std;

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

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

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



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

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

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

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

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

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

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

```
return output;
}

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

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

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

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

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

```

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

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

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

Signature Failure

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

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

Signature

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

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

1. Applying for Security Credentials

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

Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*****';

```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

Python

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

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

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

Golang

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

```

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

PHP

```

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

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

Ruby

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

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

DotNet

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

```

// long timestamp = ToTimestamp() / 1000;
// string requestTimestamp = timestamp.ToString();
Dictionary<string, string> param = new Dictionary<string, string>();
param.Add("Limit", "20");
param.Add("Offset", "0");
param.Add("InstanceIds.0", "ins-09dx96dg");
param.Add("Action", action);
param.Add("Nonce", "11886");
// param.Add("Nonce", Math.Abs(new Random().Next()).ToString());
param.Add("Timestamp", RequestTimestamp.ToString());
param.Add("Version", version);
param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(param, 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(sigOutParam);
Console.WriteLine("GET " + result);
}
}
    
```

NodeJS

```

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

```

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

```



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

Responses

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Response for Successful Requests

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

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

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

Response for Failed Requests

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

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

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

Common Error Codes

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

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

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

Instance APIs

RenewInstances

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1. API Description

Domain name for API request: `lighthouse.tencentcloudapi.com`.

This API is used to renew one or more Lighthouse instances.

- You can only perform this operation on instances whose status is `RUNNING`, `STOPPED` and `SHUTDOWN`.
- Batch operations are supported. Up to 100 instances are supported in each request.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance is `SUCCESS`, the operation is successful.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: <code>RenewInstances</code> .
Version	Yes	String	Common Params . The value used for this API: <code>2020-03-24</code> .
Region	No	String	Common Params . This parameter is not required for this API.

InstanceIds.N	Yes	Array of String	IDs of one or more instances to be operated. The value can be obtained from the <code>InstanceId</code> parameter returned by the DescribeInstances API. Up to 100 instances can be requested at a time.
InstanceChargePrepaid	Yes	InstanceChargePrepaid	Prepaid mode, i.e., monthly subscription. This parameter can specify the purchase period and other attributes such as auto-renewal. It is required for prepaid instances.
RenewDataDisk	No	Boolean	Whether to renew elastic data disks. Values: <code>TRUE</code> : Renew the elastic data disks attached to the instance as well when the related instance is renewed. <code>FALSE</code> : Do not renew the elastic data disks attached to the instance as well when the related instance is renewed. Default: <code>TRUE</code>
AutoVoucher	No	Boolean	Whether to automatically use vouchers. Values: <code>TRUE</code> : Use vouchers for payment automatically. <code>FALSE</code> : Do not use vouchers for payment automatically. Default: <code>FALSE</code> .

3. Output Parameters

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

4. Example

Example1 Renewing specific instances

Input Example

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

{
  "InstanceIds": [
    "lhins-1cte6j63",
    "lhins-oxfq8tad"
  ],
  "InstanceChargePrepaid": {
    "Period": 1
  },
  "AutoVoucher": true,
  "RenewDataDisk": true
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c139e106-cdb2-4923-8f1e-ea1dc4fe3a47"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	Error with CAM signature/authentication.
FailedOperation	Operation failed.
FailedOperation.InsufficientBalance	
FailedOperation.RenewResourcesFailed	Unable to renew the resource
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidKey	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidNameNotStr	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is not a string.
InvalidParameter.InvalidFilterInvalidValuesNotList	Invalid parameter: the <code>Values</code> in the <code>Filter</code> parameter is not a list.
InvalidParameter.InvalidFilterNotDict	Invalid parameter: the <code>Filter</code> parameter is not a dictionary.
InvalidParameter.InvalidFilterNotSupportedName	Invalid parameter: there are unsupported <code>Name</code> values in the <code>Filter</code> parameter.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.

OperationDenied.DiskOperationInProgress	The disk is being manipulated. Try again later.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnsupportedOperation.DiskLatestOperationUnfinished	Unsupported operation: the last operation of the disk has not been completed.
UnsupportedOperation.InvalidDiskState	The disk's status does not support this operation.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

DescribeInstanceVncUrl

最近更新时间：2023-12-04 16:31:58

1. API Description

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

This API is used to query the URL for VNC login.

- 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, you will need to query another one.
- The VNC URL can be used once only. You need to query a new one if you want to log in again.
- Up to 30 re-connection attempts allowed in one minute.
- `InstanceVncUrl` : Its value will be returned after the API is successfully called.

After you get the value of `InstanceVncUrl` , you need to append `InstanceVncUrl=xxxx` to the end of the link `https://img.qcloud.com/qcloud/app/active_vnc/index.html?` .

The final URL can be in the following formats:

```
https://img.qcloud.com/qcloud/app/active_vnc/index.html?InstanceVncUrl=wss%3A%2F%2Fbjvnc.qcloud.com%3A26789%2Fvnc%3F%3DaHpjWnRVMFNhYmxKdDM5MjRHNlVTSVQwajNUSW0wb2tBbmFtREFCTmFrCy8vUUNPMG0wSHZNOUUXRm5PMmUzWmFDcWlOdDJibUJxSTZDL0RXcHZxYnZZMmRkWWZWcEZia2lyb09XMzdKNmM9
```

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: DescribeInstanceVncUrl.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which can be obtained from the <code>InstanceId</code> returned by the DescribeInstances API.

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

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

{
  "InstanceId": "lhins-ruy9d2tw"
}
```

Output Example

```
{
  "Response": {
    "InstanceVncUrl": "wss%3A%2F%2Ffusevnc.qcloud.com%3A443%2Fvnc%3Fs%3DTnVQUEpVYkc4eU"
```

```
MvMEkyUERKUjhRbzJhbGcyWHFaWmVMU1dRbUQwd0hVVHo2WU4wOEPLWjlQd0JVSWQwUXZOK2FDcWlOdDJ
IbUJxSTZDL0RXcHZxYnZZMmRkWWZWcEZia2lyb09XMzdKNmM9%26password%3D%26isWindows%3Dfal
se%26isUbuntu%3Dfalse",
"RequestId": "f9f6fa33-679c-40ea-bb30-b1e9a8989305"
}
}
```

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	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalError.InvalidCommandNotFound	The command is not found.

InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

DescribeInstancesDeniedActions

最近更新时间：2023-12-04 16:31:58

1. API Description

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

This API is used to query the list of operation limits of one or more 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: DescribeInstancesDeniedActions.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.

3. Output Parameters

Parameter Name	Type	Description

InstanceDeniedActionSet	Array of InstanceDeniedActions	List of instance operation limit details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Views the list of operation limits of instances

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeInstancesDeniedActions
&InstanceIds.0=lhins-ruy9d2tw
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "InstanceDeniedActionSet": [
      {
        "InstanceId": "lhins-ruy9d2tw",
        "DeniedActions": [
          {
            "Action": "StartInstances",
            "Code": "UnsupportedOperation.InvalidInstanceState",
            "Message": "The request does not support the instance `lhins-ruy9d2tw` which is i
n the state of `RUNNING`."
          }
        ]
      }
    ],
    "RequestId": "ccfc8767-94e4-410a-a062-927e6ea79f0f"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalServerError.InvalidCommandNotFound	The command is not found.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission

DescribeInstancesDiskNum

最近更新时间：2023-12-04 16:31:58

1. API Description

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

This API is used to query the number of cloud disks attached to 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: DescribeInstancesDiskNum.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	List of instance IDs.

3. Output Parameters

Parameter Name	Type	Description

AttachDetailSet	Array of AttachDetail	Information of all attached disks
TotalCount	Integer	Number of attached cloud disks
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 attached cloud disks

Input Example

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

{
  "InstanceIds": [
    "lhins-anxwfvxh"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "AttachDetailSet": [
      {
        "InstanceId": "lhins-anxwfvxh",
        "AttachedDiskCount": 1,
        "MaxAttachCount": 5
      }
    ],
    "RequestId": "3a73da61-4f9a-453b-bc11-553383f5d59d"
  }
}
```

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
InvalidParameter	Incorrect parameter.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.

DescribeInstancesReturnable

最近更新时间：2023-12-04 16:31:58

1. API Description

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

This API is used to query whether the specified instance can be returned.

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: DescribeInstancesReturnable.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	No	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances.
InstanceReturnableSet	Array of InstanceReturnable	List of returnable instance details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying returnable instances

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeInstancesReturnable
&InstanceIds.0=lhins-ruy9d2tw
&InstanceIds.1=lhins-xusdke45
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "InstanceReturnableSet": [
      {
        "InstanceId": "lhins-ruy9d2tw",
        "IsReturnable": true,
        "ReturnFailCode": 0,
        "ReturnFailMessage": "Returnable"
      },
      {
        "InstanceId": "lhins-xusdke45",
        "IsReturnable": false,
        "ReturnFailCode": 2,
        "ReturnFailMessage": "The resource has expired"
      }
    ],
    "RequestId": "3ea94867-0d80-4d22-8ba5-a8d9355efca8"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.DescribeInstancesReturnableError	An error occurred when querying whether the instance is returnable.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalError.DescribeInstancesReturnableError	Failed to query whether the instance can be returned.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.

InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission

DescribeInstancesTrafficPackages

最近更新时间：2023-12-04 16:31:58

1. API Description

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

This API is used to query the traffic package details of one or more 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: DescribeInstancesTrafficPackages.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	No	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instance traffic package details.
InstanceTrafficPackageSet	Array of InstanceTrafficPackage	List of instance traffic package details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying instance traffic package details

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeInstancesTrafficPackages
&Limit=2
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "InstanceTrafficPackageSet": [
      {
        "InstanceId": "lhins-7h98ep3z",
        "TrafficPackageSet": [
          {
            "TrafficPackageId": "lhtfp-o1wtyyvx",
            "TrafficUsed": 5905577,
            "TrafficPackageTotal": 536870912000,
            "TrafficPackageRemaining": 536865006423,
            "TrafficOverflow": 0,
            "StartTime": "2020-06-28T08:15:18Z",
            "EndTime": "2020-07-28T08:15:17Z",
            "Deadline": "2020-07-28T08:15:18Z",
            "Status": "NETWORK_NORMAL"
          }
        ]
      }
    ],
    "RequestId": "lhins-abtdx7eb",
  }
}
```

```
"TrafficPackageSet": [  
  {  
    "TrafficPackageId": "lhtfp-4noj8p75",  
    "TrafficUsed": 3435972,  
    "TrafficPackageTotal": 536870912000,  
    "TrafficPackageRemaining": 536867476028,  
    "TrafficOverflow": 0,  
    "StartTime": "2020-06-28T08:08:57Z",  
    "EndTime": "2020-07-28T08:08:56Z",  
    "Deadline": "2020-07-28T08:08:57Z",  
    "Status": "NETWORK_NORMAL"  
  }  
],  
"RequestId": "7839b8ee-f5a4-4a67-b1ab-15fb35b1e2fe"  
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstancesTrafficPackagesFailed	Failed to query traffic packages.
InternalServerError.DescribeInstancesTrafficPackagesFailed	An error occurred while querying the instance traffic package.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
UnauthorizedOperation.NoPermission	No permission

DescribeModifyInstanceBundles

最近更新时间：2023-12-04 16:31:57

1. API Description

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

This API is used to query the list of package options of an instance.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeModifyInstanceBundles.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID.
Filters.N	No	Array of Filter	Filter list <ul style="list-style-type: none"> bundle-id Filter by the bundle ID. Type: String Required: No support-platform-type Filter by the OS type. Valid values: <code>LINUX_UNIX</code> (Linux or Unix), <code>WINDOWS</code> (Windows)

			<p>Type: String Required: No</p> <ul style="list-style-type: none"> bundle-type <p>Filter by the bundle type.</p> <p>Valid values: <code>GENERAL_BUNDLE</code> (General bundle), <code>STORAGE_BUNDLE</code> (Storage bundle), <code>ENTERPRISE_BUNDLE</code> (Enterprise bundle), <code>EXCLUSIVE_BUNDLE</code> (Dedicated bundle), <code>BEFAST_BUNDLE</code> (BeFast bundle)</p> <p>Type: String Required: No</p> <ul style="list-style-type: none"> bundle-state <p>Filter by the bundle status.</p> <p>Valid values: <code>ONLINE</code> , <code>OFFLINE</code></p> <p>Type: String Required: No</p> <p>Each request can contain up to 10 <code>Filters</code> , and each filter can have up to 5 <code>Filter.Values</code> .</p>
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , please see the relevant section in Overview .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , please see the relevant section in the API Overview .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of matched instances.
ModifyBundleSet	Array of ModifyBundle	New package details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of bundle options of instance

Input Example

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

{
  "InstanceId": "lhins-f4s3n38h"
}
```

Output Example

```
{
  "Response": {
    "ModifyBundleSet": [
      {
        "Bundle": {
          "BundleDisplayLabel": "NORMAL",
          "BundleId": "bundle_ntp_small2_500",
          "BundleSalesState": "AVAILABLE",
          "BundleType": "GENERAL_BUNDLE",
          "CPU": 1,
          "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
          "InternetMaxBandwidthOut": 3,
          "Memory": 2,
          "MonthlyTraffic": 500,
          "Price": {
            "InstancePrice": {
              "Discount": 100,
              "DiscountPrice": 90,
              "OriginalBundlePrice": 90,
              "OriginalPrice": 90
            }
          },
          "SupportLinuxUnixPlatform": true,
          "SupportWindowsPlatform": true,
          "SystemDiskSize": 40,
          "SystemDiskType": "CLOUD_SSD"
        },
        "ModifyBundleState": "UNAVAILABLE",
        "NotSupportModifyMessage": "",
        "ModifyPrice": {
          "InstancePrice": {
            "Discount": 100,
            "DiscountPrice": 19.73,
```

```
"OriginalBundlePrice": 90,
"OriginalPrice": 19.73
}
},
{
  "Bundle": {
    "BundleDisplayLabel": "NORMAL",
    "BundleId": "bundle_ntp_small1_500",
    "BundleSalesState": "AVAILABLE",
    "BundleType": "GENERAL_BUNDLE",
    "CPU": 1,
    "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
    "InternetMaxBandwidthOut": 3,
    "Memory": 1,
    "MonthlyTraffic": 500,
    "Price": {
      "InstancePrice": {
        "Discount": 100,
        "DiscountPrice": 90,
        "OriginalBundlePrice": 90,
        "OriginalPrice": 90
      }
    },
    "SupportLinuxUnixPlatform": true,
    "SupportWindowsPlatform": true,
    "SystemDiskSize": 40,
    "SystemDiskType": "CLOUD_SSD"
  },
  "ModifyBundleState": "UNAVAILABLE",
  "NotSupportModifyMessage": "",
  "ModifyPrice": {
    "InstancePrice": {
      "Discount": 100,
      "DiscountPrice": 19.73,
      "OriginalBundlePrice": 90,
      "OriginalPrice": 19.73
    }
  }
},
{
  "Bundle": {
    "BundleDisplayLabel": "NORMAL",
    "BundleId": "bundle_ntp_small12_1000",
    "BundleSalesState": "AVAILABLE",
    "BundleType": "GENERAL_BUNDLE",
    "CPU": 1,
```

```
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"InternetMaxBandwidthOut": 5,
"Memory": 2,
"MonthlyTraffic": 1000,
"Price": {
  "InstancePrice": {
    "Discount": 100,
    "DiscountPrice": 140,
    "OriginalBundlePrice": 140,
    "OriginalPrice": 140
  }
},
"SupportLinuxUnixPlatform": true,
"SupportWindowsPlatform": true,
"SystemDiskSize": 40,
"SystemDiskType": "CLOUD_SSD"
},
"ModifyBundleState": "UNAVAILABLE",
"NotSupportModifyMessage": "",
"ModifyPrice": {
  "InstancePrice": {
    "Discount": 100,
    "DiscountPrice": 52.6,
    "OriginalBundlePrice": 140,
    "OriginalPrice": 52.6
  }
}
},
"RequestId": "f1bb6c99-e704-441e-a405-a594cb55c989",
"TotalCount": 3
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.DescribeInstancesModificationError	Failed to query the instance configuration adjustment.
FailedOperation.RequestError	A request error occurred.
FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalError.DescribeInstancesModification	Failed to query whether the configuration of the instance can be modified.
InternalError.DescribeInstancesModificationError	Failed to query whether the configuration of the instance can be modified.
InternalError.InvalidBundlePrice	The package price is incorrect.
InternalError.InvalidCommandNotFound	The command is not found.
InternalError.RequestError	There was an error in the request.
InternalError.TradeGetPriceFailed	Failed to get the price.
InvalidParameter.BundleIdNotFound	Undefined service package ID.
InvalidParameter.FilterValueLimitExceeded	

	Invalid parameter: the number of <code>Values</code> in the <code>Filter</code> parameter exceeds the allowed maximum number.
<code>InvalidParameter.InvalidFilter</code>	Invalid parameter: the <code>Filter</code> parameter is invalid.
<code>InvalidParameter.InvalidFilterInvalidKey</code>	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
<code>InvalidParameter.InvalidFilterInvalidNameNotStr</code>	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is not a string.
<code>InvalidParameter.InvalidFilterNotDict</code>	Invalid parameter: the <code>Filter</code> parameter is not a dictionary.
<code>InvalidParameter.InvalidFilterNotSupportedName</code>	Invalid parameter: there are unsupported <code>Name</code> values in the <code>Filter</code> parameter.
<code>InvalidParameterValue.InstanceIdMalformed</code>	Invalid parameter value: the instance ID format is invalid.
<code>InvalidParameterValue.InvalidBlueprintPlatformType</code>	The type of the image OS is invalid.
<code>InvalidParameterValue.InvalidConsoleDisplayTypes</code>	The console display type is invalid.
<code>InvalidParameterValue.LimitExceeded</code>	Invalid parametric value: the number of parameter values exceeds the upper limit.
<code>InvalidParameterValue.Negative</code>	Invalid parametric value: it cannot be negative.
<code>InvalidParameterValue.OutOfRange</code>	Invalid parametric value: it is not within the valid range.
<code>OperationDenied.BundleNotSupportModify</code>	This instance does not support upgrading packages.
<code>ResourceNotFound.InstanceIdNotFound</code>	The instance ID does not exist.
<code>UnauthorizedOperation.NoPermission</code>	No permission
<code>UnsupportedOperation.InstanceExpired</code>	Unsupported operation: the instance has expired.
<code>UnsupportedOperation.InvalidInstanceState</code>	Unsupported operation: the instance status is invalid.

DescribeResetInstanceBlueprints

最近更新时间：2023-12-04 16:31:57

1. API Description

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

This API is used to query the image information of a reset instance.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeResetInstanceBlueprints.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , please see the relevant section in Overview .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , please see the relevant section in the API Overview .
Filters.N	No	Array of	Filter list <ul style="list-style-type: none">blueprint-id

		Filter	<p>Filter by image ID.</p> <p>Type: String</p> <p>Required: no</p> <ul style="list-style-type: none"> • blueprint-type <p>Filter by image type.</p> <p>Valid values: <code>APP_OS</code> : application image; <code>PURE_OS</code> : system image; <code>PRIVATE</code> : custom image</p> <p>Type: String</p> <p>Required: no</p> <ul style="list-style-type: none"> • platform-type <p>Filter by image platform type.</p> <p>Valid values: <code>LINUX_UNIX</code> : Linux or Unix; <code>WINDOWS</code> : Windows</p> <p>Type: String</p> <p>Required: no</p> <ul style="list-style-type: none"> • blueprint-name <p>Filter by image name.</p> <p>Type: String</p> <p>Required: no</p> <ul style="list-style-type: none"> • blueprint-state <p>Filter by image status.</p> <p>Type: String</p> <p>Required: no</p> <p>Each request can contain up to 10 <code>Filters</code> and 5 <code>Filter.Values</code> . <code>BlueprintIds</code> and <code>Filters</code> cannot be specified at the same time.</p>
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3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible images.
ResetInstanceBlueprintSet	Array of ResetInstanceBlueprint	Image reset information list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the reset images of an instance

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeResetInstanceBlueprints
&InstanceId=lhins-383nzm1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ResetInstanceBlueprintSet": [
      {
        "BlueprintInfo": {
          "BlueprintId": "lhbp-kyfeje6z",
          "BlueprintName": "my-blueprint2",
          "DisplayTitle": "wordpress2",
          "DisplayVersion": "5.3.2",
          "Description": "Personal blog website construction",
          "OsName": "CentOS 7.4 64bit",
          "Platform": "CENTOS",
          "PlatformType": "LINUX_UNIX",
          "BlueprintType": "APP_OS",
          "ImageUrl": "http://www.wordpress.com/image",
          "RequiredSystemDiskSize": 10,
          "RequiredMemorySize": 2,
          "SupportAutomationTools": true,
          "BlueprintState": "NORMAL",
          "CreatedTime": "2020-09-22T00:00:00+00:00",
          "ImageId": ""
        },
        "IsResettable": false,
        "NonResettableMessage": "The current system disk size of instance does not match the system disk size requirements of the blueprint."
      }
    ],
    "RequestId": "a1768b80-f8f1-47c0-ad60-bb7e3318610b"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InvalidParameter.FilterValueLimitExceeded	Invalid parameter: the number of <code>Values</code> in the <code>Filter</code> parameter exceeds the allowed maximum number.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidKey	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidNameNotStr	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is not a string.
InvalidParameter.InvalidFilterNotDict	Invalid parameter: the <code>Filter</code> parameter is not a dictionary.
InvalidParameter.InvalidFilterNotSupportedName	Invalid parameter: there are unsupported <code>Name</code> values in the <code>Filter</code> parameter.

InvalidParameter.ParameterConflict	Invalid parameter: the parameters conflict.
InvalidParameterValue.BlueprintIdMalformed	Invalid parameter value: the image ID format is invalid.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InvalidBlueprintPlatformType	The type of the image OS is invalid.
InvalidParameterValue.InvalidBlueprintState	Invalid image status value
InvalidParameterValue.InvalidBlueprintType	The image type is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission

IsolateInstances

最近更新时间：2023-12-04 16:31:57

1. API Description

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

This API is used to return one or more Lighthouse instances.

- Only `RUNNING` and `STOPPED` instances can be returned.
- The instance status goes to `SHUTDOWN` after the API is called successfully.
- Batch operations are supported. Up to 20 resources (including instances and data disks) can be returned in each request.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance is `SUCCESS`, the operation is successful.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: IsolateInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.

InstanceIds.N	Yes	Array of String	IDs of target instances. You can get the IDs from the <code>InstanceId</code> parameter returned by the <code>DescribeInstances</code> API. Up to 20 instances can be specified at the same time.
IsolateDataDisk	No	Boolean	Whether to return data disks mounted on the instance together with the instance. Valid values: <code>TRUE</code> : Return the mounted data disks at the same time <code>FALSE</code> : Do not return the mounted data disks at the same time Default value: <code>TRUE</code> .

3. Output Parameters

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

4. Example

Example1 Returning an instance

This example shows you how to return an instance.

Input Example

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

{
  "InstanceIds": [
    "lhins-lfdnmikp"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "35eee594-4644-401a-815a-1c9075b5f39c"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	Error with CAM signature/authentication.
FailedOperation	Operation failed.
FailedOperation.DescribeResourcesReturnableError	The query returns contents that do not meet the requirement.
FailedOperation.IsolateResourcesFailed	Failed to return the resource.

InternalError.DescribeResourcesReturnableError	Error querying the resource
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
LimitExceeded.IsolateResourcesLimitExceeded	Reached the upper limit of resources can be returned
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.
UnsupportedOperation.ResourceNotReturnable	The resource cannot be returned.

ModifyInstancesBundle

最近更新时间：2023-12-04 16:31:57

1. API Description

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

This API is used change one or more Lighthouse instance bundles.

- Only `RUNNING` and `STOPPED` instances can be changed.
- Batch operations are supported. The maximum number of instances in each request is 30.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance is `SUCCESS`, the operation is successful.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: <code>ModifyInstancesBundle</code> .
Version	Yes	String	Common Params . The value used for this API: <code>2020-03-24</code> .
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	IDs of target instances. You can get the IDs from the <code>InstanceId</code> parameter returned by the

			<code>DescribeInstances</code> API. Up to 15 instances can be specified at the same time.
BundleId	Yes	String	ID of bundles to change. You can get the IDs from the <code>BundleId</code> returned by the DescribeBundles .
AutoVoucher	No	Boolean	Whether to use existing vouchers under the current account automatically. Valid values: <code>true</code> : Deduct from existing vouchers automatically <code>false</code> : Do not deduct from existing vouchers automatically Default value: <code>false</code> .

3. Output Parameters

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

4. Example

Example1 Changing the Lighthouse instance bundle

This example shows you how to change the Lighthouse instance bundle.

Input Example

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

{
  "InstanceIds": [
    "lhins-1a2b3c"
  ],
  "BundleId": "bundle_gen_lin_01",
  "AutoVoucher": true
}
```

Output Example

```
{
  "Response": {
    "RequestId": "3964a892-5399-4eb7-a35b-8bddfe683ab4"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	Error with CAM signature/authentication.
FailedOperation	Operation failed.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
FailedOperation.InsufficientBalance	

FailedOperation.ModifyInstancesBundleFailed	Failed to change the instance bundle.
InternalError	Internal error.
InvalidParameter.BundleIdNotFound	Undefined service package ID.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
MissingParameter	Missing parameter.
OperationDenied.BundleNotSupportModify	This instance does not support upgrading packages.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.

RebootInstances

最近更新时间：2023-12-04 16:31:56

1. API Description

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

This API is used to restart instances.

- You can only perform this operation on instances whose status is `RUNNING`.
- The instance status will become `REBOOTING` when the API is called successfully and will become `RUNNING` when the instance is successfully restarted.
- Batch operations are supported. The maximum number of instances in each request is 100.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance 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: RebootInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.

InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.
---------------	-----	-----------------	--

3. Output Parameters

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

4. Example

Example1 Restarting instances

This example shows you how to restart two instances.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=RebootInstances
&InstanceIds.0=lhins-ruy9d2tw
&InstanceIds.1=lhins-rusdke45
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "4225fd9d-38cb-4cc7-b7b0-7332809ddca7"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalServerError.InvalidCommandNotFound	The command is not found.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.

ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

ResetInstance

最近更新时间：2023-12-04 16:31:56

1. API Description

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

This API is used to reinstall the image on the specified instance.

- If you specify a `BlueprintId`, 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.
- Currently, this API does not support switching the operating system between `LINUX_UNIX` and `WINDOWS` for instances.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance 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: ResetInstance.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.

Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which can be obtained from the <code>InstanceId</code> returned by the DescribeInstances API.
BlueprintId	No	String	Image ID, which can be obtained from the <code>BlueprintId</code> returned by the DescribeBlueprints API.

3. Output Parameters

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

4. Example

Example1 Reinstalling an instance

This example shows how to reinstall an instance by specifying the image.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ResetInstance
&InstanceId=lhins-ruy9d2tw
&BlueprintId=lhbp-5e88071o
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "cb7aaa99-b31a-4767-9d41-4ebdbdf3ba9c"
  }
}
```

5. Developer Resources

SDK

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

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalError.InvalidCommandNotFound	The command is not found.
InvalidParameterValue.BlueprintConfigNotMatch	The configuration of this instance does not meet the requirements of the specified image.
InvalidParameterValue.BlueprintId	The image ID is invalid, as instance reinstallation does not allow switching the OS type.
InvalidParameterValue.BlueprintIdMalformed	Invalid parameter value: the image ID format is invalid.

InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InvalidParameterCombination	Invalid package combination.
InvalidParameterValue.InvalidPassword	The password in the parameter is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.NotAllowToChangePlatformType	It is not allowed to change the OS type.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
InvalidParameterValue.Toolong	The length of the parameter value exceeds the upper limit.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.BlueprintIdNotFound	The image ID does not exist.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.KeyPairNotFound	
ResourceUnavailable.BlueprintUnavailable	The image resource is not available.
UnauthorizedOperation.MFANotFound	MFA does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.
UnsupportedOperation.SystemBusy	System busy

ResetInstancesPassword

最近更新时间：2023-12-04 16:31:56

1. API Description

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

This API is used to reset the password of the instance OS to a user-specified password.

- You can only use this API to modify the password of the admin account. The name of the admin account varies by OS (on Windows, it is `Administrator` ; on Ubuntu, it is `ubuntu` ; on other systems, it is `root`).
- Batch operations are supported. You can reset the passwords of multiple instances to the same one. The maximum number of instances in each request is 100.
- It's recommended to shut down the instance first and then reset the password. If the instance is running, this API will try to shut it down normally. If the attempt fails, it will force to instance to shut down.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance is `SUCCESS` , the operation is successful.

Note: Just like powering off a physical PC, a forced shutdown may cause data loss or the corruption of file system.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: <code>ResetInstancesPassword</code> .

Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time.
Password	Yes	String	<p>Login password of the instance(s). The password requirements vary among different operating systems:</p> <p>The password of a <code>LINUX_UNIX</code> instance must contain 8–30 characters (above 12 characters preferably) in at least three of the following types and cannot begin with "/":</p> <ul style="list-style-type: none"> • Lowercase letters: [a–z] • Uppercase letters: [A–Z] • Digits: 0–9 • Special symbols: ()`!@#\$\$%^&*+–_[]{}:;<>,.?/ <p>The password of a <code>WINDOWS</code> instance must contain 12–30 characters in at least three of the following types and cannot begin with "/" or include the username:</p> <ul style="list-style-type: none"> • Lowercase letters: [a–z] • Uppercase letters: [A–Z] • Digits: 0–9 • Special symbols: ()`!@#\$\$%^&*+–_[]{}:;<>,.?/ • If both <code>LINUX_UNIX</code> and <code>WINDOWS</code> instances exist, the requirements for password complexity of <code>WINDOWS</code> instances shall prevail.
UserName	No	String	OS username of the instance for which you want to reset the password, which can contain up to 64 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 Resetting instance password

This example shows you how to reset the password of an instance, and then you can use this password to log in to the instance. You need to set the password in the example as needed.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ResetInstancesPassword
&InstanceIds.0=lhins-ruy9d2tw
&Password=xxxxxxxxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "0e194541-9937-471e-beaa-957a84dcf9d0"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalError.InvalidCommandNotFound	The command is not found.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InvalidPassword	The password in the parameter is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.NotAllowToChangePlatformType	It is not allowed to change the OS type.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.MFAExpired	MFA has expired.
UnauthorizedOperation.MFANotFound	MFA does not exist.
UnauthorizedOperation.NoPermission	No permission

UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

StartInstances

最近更新时间：2023-12-04 16:31:55

1. API Description

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

This API is used to start one or more 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 will become `RUNNING` when the instance is successfully started.
- Batch operations are supported. The maximum number of instances in each request is 100.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance 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: StartInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.

InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.
---------------	-----	-----------------	--

3. Output Parameters

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

4. Example

Example1 Starting instances with specified IDs

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

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=StartInstances
&InstanceIds.0=lhins-ruy9d2tw
&InstanceIds.1=lhins-rusdke45
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "0e9982ad-ec0b-44f4-b010-40ba25c8b7b7"
  }
}
```

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.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.NoPermission	No permission

UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

StopInstances

最近更新时间：2023-12-04 16:31:55

1. API Description

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

This API is used to shut down one or more 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 will become `STOPPED` when the instance is successfully shut down.
- Batch operations are supported. The maximum number of instances in each request is 100.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance 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: StopInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.

InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.
---------------	-----	-----------------	--

3. Output Parameters

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

4. Example

Example1 Shutting down instances

This example shows you how to shut down two instances.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=StopInstances
&InstanceIds.0=lhins-ruy9d2tw
&InstanceIds.1=lhins-rusdke45
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "5fd6992a-f8b1-4cd2-9574-cb4251bc524f"
  }
}
```

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	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.

UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

ModifyInstancesAttribute

最近更新时间：2023-12-04 16:31:57

1. API Description

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

This API is used to modify an instance attribute.

- The instance name is used only for users' convenience.
- 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: ModifyInstancesAttribute.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.
InstanceName	No	String	Instance name, which is customizable and can contain up to 60 characters.

3. Output Parameters

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

4. Example

Example1 Renaming instance

This example shows you how to rename two instances.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ModifyInstancesAttribute
&InstanceIds.0=lhins-ruy9d2tw
&InstanceIds.1=lhins-rusdke45
&InstanceName=test
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "47421b28-de2c-486e-b244-e47e64bf7357"
  }
}
```

5. Developer Resources

SDK

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

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
FailedOperation.ModifyResourcesAttributeFailed	Failed to change the resource attribute. Try again later...
FailedOperation.RequestError	A request error occurred.
FailedOperation.TradeCallBillingGatewayFailed	Failed to call the billing gateway service. Please try again later.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalServerError.TradeCallBillingGatewayFailed	Failed to call billing gateway service
InvalidParameter.OnlyAllowModifyOneAttribute	Invalid parameter: only one attribute can be modified at a time.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InstanceNameTooLong	Invalid parameter value: the length of the instance name exceeds the upper limit.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.

OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

ModifyInstancesRenewFlag

最近更新时间：2023-12-04 16:31:57

1. API Description

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

This API is used to change the auto-renewal setting of monthly-subscribed instances.

- Instances with auto-renewal enabled are automatically renewed on a monthly basis upon the expiration.
- Batch operations are supported. Up to 100 instances per request is allowed.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyInstancesRenewFlag.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.
RenewFlag	Yes	String	Auto-Renewal flag. Valid values: <ul style="list-style-type: none">• NOTIFY_AND_AUTO_RENEW: notify upon expiration and renew automatically

			<ul style="list-style-type: none"> NOTIFY_AND_MANUAL_RENEW: notify upon expiration but do not renew automatically DISABLE_NOTIFY_AND_MANUAL_RENEW: neither notify upon expiration nor renew automatically <p>If this parameter is specified as <code>NOTIFY_AND_AUTO_RENEW</code>, the instance will be automatically renewed monthly if the account balance is sufficient.</p>
--	--	--	---

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 auto-renewal setting of Lighthouse instances

This example shows you how to change the auto-renewal setting of Lighthouse instances.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ModifyInstancesRenewFlag
&InstanceIds.0=lhins-ruy9d2tw
&RenewFlag=NOTIFY_AND_AUTO_RENEW
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "4804b3a2-0c0f-4900-a39a-76885a17d4bb"
  }
}
```

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.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.RequestError	A request error occurred.
FailedOperation.TradeCallBillingGatewayFailed	Failed to call the billing gateway service. Please try again later.
InternalError.TradeCallBillingGatewayFailed	Failed to call billing gateway service
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.NoPermission	No permission

UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

CreateInstances

最近更新时间：2023-12-04 16:31:59

1. API Description

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

This API is used to create one or more Lighthouse instances.

A maximum of 5 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
BundleId	Yes	String	Bundle ID. You can get it via the DescribeBundles API.
BlueprintId	Yes	String	Image ID. You can get it via the DescribeBlueprints API.
InstanceChargePrepaid	Yes	InstanceChargePrepaid	Monthly subscription information for the instance, including the purchase period, setting of auto-renewal, etc.

InstanceName	No	String	Instance display name.
InstanceCount	No	Integer	Number of the instances to purchase. For monthly subscribed instances, the value can be 1 to 30. The default value is <code>1</code> . Note that this number can not exceed the remaining quota under the current account.
Zones.N	No	Array of String	List of availability zones. A random AZ is selected by default.
DryRun	No	Boolean	<p>Whether the request is a dry run only.</p> <p><code>true</code> : 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.</p> <p>If the dry run fails, the corresponding error code will be returned.</p> <p>If the dry run succeeds, the RequestId will be returned.</p> <p><code>false</code> (default value): send a normal request and create instance(s) if all the requirements are met.</p>
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.
LoginConfiguration	No	LoginConfiguration	Login password of the instance. It's only available for Windows instances. If it's not specified, it means that the user choose to set

			the login password after the instance creation.
Containers.N	No	Array of DockerContainerConfiguration	Configuration of the containers to create
AutoVoucher	No	Boolean	Whether to use the vouchers automatically. It defaults to No.

3. Output Parameters

Parameter Name	Type	Description
InstanceIdSet	Array of String	List of IDs created by using this API. The returning of IDs does not mean that the instances are created successfully. You can call <code>DescribeInstances</code> API, and find the instance ID in the <code>InstancesSet</code> returned to check its status. If the <code>status</code> is <code>running</code> , the instance is created successfully.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a Lighthouse instance

This example shows how to create a monthly subscribed Lighthouse instance.

Input Example

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

{
  "BundleId": "bundle_gen_03",
  "BlueprintId": "lhbp-g0tn7djh",
  "InstanceChargePrepaid": {
```

```
"Period": "1",  
"RenewFlag": "NOTIFY_AND_MANUAL_RENEW"  
}  
}
```

Output Example

```
{  
  "Response": {  
    "InstanceIdSet": [  
      "lhins-hx5wjw4g"  
    ],  
    "RequestId": "232b2817-ec08-43f3-8d78-41b1bfb6082c"  
  }  
}
```

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](#).

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Error Code	Description
AuthFailure.InvalidRegion	This region is not open yet. Please select another one.
FailedOperation	Operation failed.
FailedOperation.CreateInstancesFailed	Failed to create the instance.
FailedOperation.InsufficientBalance	
FailedOperation.UnableToCreateInstances	Failed to create the instance
InternalError	Internal error.
InternalError.InvalidActionNotFound	Failed to find this API
InvalidParameter	Incorrect parameter.
InvalidParameter.BundleAndBlueprintNotMatch	The package and the image do not match.
InvalidParameter.BundleIdNotFound	Undefined service package ID.
InvalidParameterValue.BlueprintId	The image ID is invalid, as instance reinstallation does not allow switching the OS type.
InvalidParameterValue.BlueprintIdMalformed	Invalid parameter value: the image ID format is invalid.
InvalidParameterValue.BundleAndBlueprintNotMatch	The package and the image do not match.
InvalidParameterValue.BundleNotSupportBlueprintPlatform	The selected package does not support the OS of the image.
InvalidParameterValue.ClientTokenTooLong	The client token is too long.
InvalidParameterValue.InstanceNameTooLong	Invalid parameter value: the length of the instance name exceeds the upper limit.
InvalidParameterValue.InvalidBlueprintId	The image ID is invalid.
InvalidParameterValue.InvalidBundle	Invalid package parameter.
InvalidParameterValue.InvalidParameterCombination	Invalid package combination.

InvalidParameterValue.InvalidPassword	The password in the parameter is invalid.
InvalidParameterValue.InvalidZone	Invalid <code>Zone</code> value.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
InvalidParameterValue.ZoneInvalid	Invalid AZ.
LimitExceeded	Reached the quota limit.
LimitExceeded.InstanceQuotaLimitExceeded	Run out of the instance quota.
ResourceNotFound.BlueprintIdNotFound	The image ID does not exist.
ResourceNotFound.BlueprintNotFound	The specified image does not exist. Please check whether the <code>BlueprintId</code> of the image is correct.
ResourceNotFound.FirewallTemplateNotFound	
ResourceUnavailable.BundleUnavailable	The package is not available.
ResourcesSoldOut.BundleSoldOut	
ResourcesSoldOut.PurchaseSourceHasNoBundleConfigs	There is no available configuration in the package.
ResourcesSoldOut.ZonesHasNoBundleConfigs	There is no available configuration in the package.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InstanceLinuxUnixCreatingNotSupportPassword	The password can not be set upon creation of a LinuxUnix instance.

DescribeInstances

最近更新时间：2023-12-04 16:31:58

1. API Description

Domain name for API request: `lighthouse.tencentcloudapi.com`.

This API is used to query the details of one or multiple instances.

- You can query the details of an instance according to its ID, name, or private IP.
- For more information on filters, please see [Filters](#).
- 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.
- The latest operation (`LatestOperation`) and the latest operation status (`LatestOperationState`) of the instance can be queried.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	No	Array of String	Instance ID list. Each request can contain up to 100 instances at a time.

Filters.N	No	Array of Filter	<p>Filter list.</p> <ul style="list-style-type: none"> instance-name Filter by the instance name. Type: String Required: No private-ip-address Filter by the private IP of instance primary ENI. Type: String Required: No public-ip-address Filter by the public IP of instance primary ENI. Type: String Required: No zone Filter by the availability zone. Type: String Required: No instance-state Filter by the instance status. Type: String Required: No tag-key Filter by the tag key. Type: String Required: No tag-value Filter by the tag value. Type: String Required: No tag:tag-key Filter by tag key-value pair. The <code>tag-key</code> should be replaced with a specific tag key. Type: String Required: No <p>Each request can contain up to 10 <code>Filters</code> and 100 <code>Filter.Values</code>. You cannot specify both <code>InstanceIds</code> and <code>Filters</code> at the same time.</p>
Offset	No	Integer	<p>Offset. Default value: 0. For more information on <code>Offset</code>, please see the relevant section in Overview.</p>
Limit	No	Integer	<p>Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code>, please see the relevant section in the API Overview.</p>

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances.
InstanceSet	Array of Instance	List of instance details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of instances

This example shows you how to limit the number of returned results to at most one.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeInstances
&Limit=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "InstanceSet": [
      {
        "InstanceId": "lhins-ruy9d2tw",
        "BundleId": "bundle_bw_small1_1",
        "BlueprintId": "lhbp-5e88071o",
        "Zone": "ap-guangzhou-3",
        "CPU": 1,
        "Memory": 1,
        "InstanceName": "lighthouse-test",
        "OsName": "CentOS 7.6 64bit",
        "Platform": "CENTOS",
        "PlatformType": "LINUX_UNIX",
        "InstanceChargeType": "PREPAID",
```

```
"SystemDisk": {
  "DiskType": "CLOUD_PREMIUM",
  "DiskSize": 50,
  "DiskId": "lhdisk-gayq6kyd"
},
"PrivateAddresses": [
  "10.0.0.5"
],
"PublicAddresses": [
  "170.106.15.201"
],
"InternetAccessible": {
  "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
  "InternetMaxBandwidthOut": 20,
  "PublicIpAssigned": true
},
"RenewFlag": "NOTIFY_AND_MANUAL_RENEW",
"LoginSettings": {
  "KeyIds": []
},
"Tags": [
  {
    "Key": "lighthouse",
    "Value": "great"
  }
],
"InstanceState": "RUNNING",
"InstanceRestrictState": "NORMAL",
"Uuid": "1322d32a-2641-45f3-a244-559405b32228",
"LatestOperation": "StartInstances",
"LatestOperationState": "SUCCESS",
"LatestOperationRequestId": "6b9a6dac-888a-4b4d-9739-0d0b66cbfa88",
"CreatedTime": "2020-04-28T03:46:09Z",
"ExpiredTime": "2020-05-28T03:46:09Z",
"IsolatedTime": null
},
"RequestId": "c9aa9e9b-bb2b-4390-b8da-fc976ffc4608"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalServerError.InvalidCommandNotFound	The command is not found.
InvalidParameter.FilterValueLimitExceeded	Invalid parameter: the number of <code>Values</code> in the <code>Filter</code> parameter exceeds the allowed maximum number.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidKey	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidNameNotStr	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is not a string.
InvalidParameter.InvalidFilterInvalidValuesNotList	Invalid parameter: the <code>Values</code> in the <code>Filter</code> parameter is not a list.

InvalidParameter.InvalidFilterNotDict	Invalid parameter: the <code>Filter</code> parameter is not a dictionary.
InvalidParameter.InvalidFilterNotSupportedName	Invalid parameter: there are unsupported <code>Name</code> values in the <code>Filter</code> parameter.
InvalidParameter.ParameterConflict	Invalid parameter: the parameters conflict.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InstanceNameTooLong	Invalid parameter value: the length of the instance name exceeds the upper limit.
InvalidParameterValue.InvalidIpFormat	Invalid parametric value: the IP address format is invalid.
InvalidParameterValue.InvalidZone	Invalid <code>Zone</code> value.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnauthorizedOperation.TokenInvalid	

TerminateInstances

最近更新时间：2023-12-04 16:31:55

1. API Description

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

This API is used to terminate one or more instances.

- Instances in `SHUTDOWN` status can be terminated through this API and cannot be recovered.
- Batch operations are supported. The allowed maximum number of instances in each request is 100.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (`LatestOperationState`) of the instance 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: TerminateInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID list, which can be obtained from the <code>InstanceId</code> returned by the DescribeInstances API.

3. Output Parameters

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

4. Example

Example1 Terminating a Lighthouse instance

This example shows you how to terminate Lighthouse instances.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=TerminateInstances
&InstanceIds.0=lhins-ruy9d2tw
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "abecf549-b609-4210-8e48-0ff76bbcd1fe"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DestroyResourcesFailed	Unable to terminate the resource. Please retry later.
FailedOperation.RequestError	A request error occurred.
InternalError.TradeCallBillingGatewayFailed	Failed to call billing gateway service
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

CBS APIs

CreateDisks

最近更新时间：2023-12-04 16:32:04

1. API Description

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

This API is used to create one or more cloud disks.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateDisks.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
Zone	Yes	String	Availability zone. You can call DescribeZones and get the information in the <code>Zone</code> parameter re
DiskSize	Yes	Integer	Cloud disk size in GB.
DiskType	Yes	String	Cloud disk media type. Valid values: "CLOUD_PREMIUM" (premium cloud

			disk), "CLOUD_SSD" (SSD cloud disk).
DiskChargePrepaid	Yes	DiskChargePrepaid	Parameters of monthly subscribed cloud disks
DiskName	No	String	Image name, which can contain up to 60 characters.
DiskCount	No	Integer	Number of cloud disks. Range: [1, 30]. Default value: 1.
DiskBackupQuota	No	Integer	Specify the quota of disk backups. No quota if it's left empty. Only one quota is allowed.
AutoVoucher	No	Boolean	Whether to use the vouchers automatically. It defaults to No.
AutoMountConfiguration	No	AutoMountConfiguration	Automatically mount and initialize the data disk.

3. Output Parameters

Parameter Name	Type	Description
DiskIdSet	Array of String	<p>List of IDs created by using this API. The returning of IDs does not mean that the instances are created successfully.</p> <p>You can call <code>DescribeDisks</code> API, and find the disk ID in the <code>DiskSet</code> returned to check its status. If the status changes from <code>PENDING</code> to <code>UNATTACHED</code> or <code>ATTACHED</code>, the instance is created successfully.</p>
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a cloud disk

This example shows you how to create a cloud disk.

Input Example

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

{
  "DiskCount": 1,
  "DiskChargePrepaid": {
    "Period": 1,
    "TimeUnit": "m"
  },
  "DiskName": "test",
  "DiskType": "CLOUD_PREMIUM",
  "DiskSize": 20,
  "Zone": "ap-hongkong-2",
  "DiskBackupQuota": 1
}
```

Output Example

```
{
  "Response": {
    "DiskIdSet": [
      "lhdisk-2q0cs4oe"
    ],
    "RequestId": "69765fd3-56a6-4633-8afd-72ca7805226b"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.CreateDisksFailed	Failed to create the cloud disks.
FailedOperation.InsufficientBalance	
InvalidParameterValue.DiskInstanceZoneNotMatch	The AZ of cloud disk does not match the AZ of instance.
InvalidParameterValue.InvalidDiskType	Invalid cloud disk type.
InvalidParameterValue.InvalidZone	Invalid <code>zone</code> value.
InvalidParameterValue.PlatformTypeNotSupportFileSystem	The instance OS does not support this file system.
InvalidParameterValue.PlatformTypeNotSupportMountPoint	The instance OS does not support the specified mount point.
LimitExceeded.AttachDataDiskQuotaLimitExceeded	Failed to attach the disk: Reached the upper limit of attached data disks
LimitExceeded.DiskQuotaLimitExceeded	Failed to create the image: Insufficient quota.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

UnsupportedOperation.TatAgentNotOnline

TAT agent on the instance is not online.

RenewDisks

最近更新时间：2023-12-04 16:32:02

1. API Description

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

This API is used to renew one or more Lighthouse cloud disks.

This operation can only be performed on data disks with the status of `ATTACHED` , `UNATTACHED` or `SHUTDOWN` .

Up to 50 cloud disks are supported at one time.

This API is async. After the request is sent, a `RequestId` is returned. At this time, the operation is not completed yet. To check the result, you need to call [DescribeDisks](#). If the latest operation status (LatestOperationState) of the disk is `SUCCESS` , the operation is successful.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: RenewDisks.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	IDs of cloud disks. The value can be

			obtained from the <code>DiskId</code> parameter returned by the DescribeDisks API. Up to 50 disks can be requested at a time.
RenewDiskChargePrepaid	Yes	RenewDiskChargePrepaid	Parameter settings for renewing the monthly subscribed cloud disk.
AutoVoucher	No	Boolean	Whether to use the vouchers automatically. It defaults to No.

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 Renewing a cloud disk

This example shows you how to review a cloud disk.

Input Example

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

{
  "DiskIds": [
    "lhdisk-ovav4qmi"
  ],
  "RenewDiskChargePrepaid": {
    "CurInstanceDeadline": "2023-09-09 23:59:59"
  },
  "AutoVoucher": true
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c139e106-cdb2-4923-8f1e-ea1dc4fe3a47"
  }
}
```

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.InsufficientBalance	
FailedOperation.RenewResourcesFailed	Unable to renew the resource
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.

InvalidParameterValue.InvalidCurInstanceDeadline	The current instance expiration time cannot be earlier than the cloud disk expiration time.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
MissingParameter.MissingParameterPeriodCurInstanceDeadline	<code>Period</code> or <code>CurInstanceDeadline</code> is required.
OperationDenied.DiskCreating	The disk is being created.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
UnsupportedOperation.DiskLatestOperationUnfinished	Unsupported operation: the last operation of the disk has not been completed.
UnsupportedOperation.InvalidDiskState	The disk's status does not support this operation.

IsolateDisks

最近更新时间：2023-12-04 16:32:03

1. API Description

Domain name for API request: `lighthouse.tencentcloudapi.com`.

This API is used to return one or more Lighthouse cloud disks.

You can only perform this operation on `UNATTACHED` disks.

After the successful call of the API, the cloud disk goes to the SHUTDOWN state.

Up to 20 instances are supported at one time.

This API is async. After the request is sent, a `RequestId` is returned. At this time, the operation is not completed yet. To check the result, you need to call [DescribeDisks](#). If the latest operation status (`LatestOperationState`) of the disk is `SUCCESS`, the operation is successful.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: <code>IsolateDisks</code> .
Version	Yes	String	Common Params . The value used for this API: <code>2020-03-24</code> .
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	IDs of cloud disks. The value can be obtained from the <code>InstanceId</code> parameter returned by the DescribeDisks API. Up to 20 disks can be processed at a time.

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 Returns cloud disks

Returns cloud disks

Input Example

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

{
  "DiskIds": [
    "lhdisk-ovav4qmi"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "e43cdee7-5dc8-4d3c-9c46-56718971b193"
  }
}
```

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.DescribeResourcesReturnableError	The query returns contents that do not meet the requirement.
FailedOperation.IsolateResourcesFailed	Failed to return the resource.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
LimitExceeded.IsolateResourcesLimitExceeded	Reached the upper limit of resources can be returned
OperationDenied.DiskCreating	The disk is being created.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
UnsupportedOperation.DiskLatestOperationUnfinished	Unsupported operation: the last operation of the disk has not been completed.
UnsupportedOperation.InvalidDiskState	The disk's status does not support this operation.
UnsupportedOperation.ResourceNotReturnable	The resource cannot be returned.

AttachDisks

最近更新时间：2023-12-04 16:32:05

1. API Description

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

This API is used to attach one or more cloud disks.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: AttachDisks.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	List of cloud disk IDs.
InstanceId	Yes	String	Instance ID.
RenewFlag	No	String	Specify whether to renew an instance automatically when it expires. Values: <code>NOTIFY_AND_AUTO_RENEW</code> : Trigger expiration notification and renew automatically; <code>NOTIFY_AND_MANUAL_RENEW</code> : Trigger expiration notification but do not renew;

			<p><code>DISABLE_NOTIFY_AND_MANUAL_RENEW</code> : Do not trigger the notification and do not renew.</p> <p>Default: <code>NOTIFY_AND_MANUAL_RENEW</code> . If <code>NOTIFY_AND_AUTO_RENEW</code> is specified, the instance is automatically renewed on a monthly basis when the account balance is sufficient.</p>
--	--	--	---

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 Attaching a cloud disk

This example shows you how to attach a cloud disk.

Input Example

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

{
  "DiskIds": [
    "lhdisk-5vmz00i3"
  ],
  "InstanceId": "lhins-qg08np81"
}
```

Output Example

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

```
"RequestId": "0d5e192e-10a2-44a6-a6ce-2ac6b01f7646"  
}  
}
```

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.InvalidCommandNotFound	The command is not found.
InternalError.TradeCallBillingGatewayFailed	Failed to call billing gateway service
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
LimitExceeded.AttachDataDiskQuotaLimitExceeded	Failed to attach the disk: Reached the upper limit of

	attached data disks
OperationDenied.DiskCreating	The disk is being created.
OperationDenied.DiskOperationInProgress	The disk is being manipulated. Try again later.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
ResourceNotFound.DiskNotFound	The disk does not exist.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnsupportedOperation.DiskLatestOperationUnfinished	Unsupported operation: the last operation of the disk has not been completed.
UnsupportedOperation.InvalidDiskState	The disk's status does not support this operation.
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

DescribeDiskConfigs

最近更新时间：2023-12-04 16:32:04

1. API Description

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

This API is used to query the cloud disk configuration.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDiskConfigs.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
Filters.N	No	Array of Filter	Filter list. <ul style="list-style-type: none"> zone Filter by availability zone. Type: String Required: no

3. Output Parameters

--	--	--

Parameter Name	Type	Description
DiskConfigSet	Array of DiskConfig	List of cloud disk configurations.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying disk configuration

Input Example

```

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

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

Output Example

```

{
  "Response": {
    "DiskConfigSet": [
      {
        "Zone": "ap-guangzhou-2",
        "DiskType": "CLOUD_PREMIUM",
        "MaxDiskSize": 1000,
        "MinDiskSize": 10,
        "DiskStepSize": 10,
        "DiskSalesState": "SOLD_OUT"
      }
    ]
  }
}
    
```

```
},
{
  "Zone": "ap-guangzhou-2",
  "DiskType": "CLOUD_SSD",
  "MaxDiskSize": 1000,
  "MinDiskSize": 20,
  "DiskStepSize": 10,
  "DiskSalesState": "SOLD_OUT"
}
],
"RequestId": "8f8e7988-39e6-4ed6-8e36-135b639e9a3a"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.RequestError	A request error occurred.

InternalError.RequestError	There was an error in the request.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameterValue.InvalidZone	Invalid <code>Zone</code> value.
InvalidParameterValue.ZoneInvalid	Invalid AZ.
UnauthorizedOperation.NoPermission	No permission

DescribeDiskDiscount

最近更新时间：2023-12-04 16:32:04

1. API Description

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

This API is used to query the discount information of a cloud disk.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDiskDiscount.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskType	Yes	String	Cloud disk type. Valid values: "CLOUD_PREMIUM".
DiskSize	Yes	Integer	Cloud disk size.
DiskBackupQuota	No	Integer	Specify the quota of disk backups. No quota if it's left empty. Only one quota is allowed.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Currency	String	Currency: CNY, USD.
DiscountDetail	Array of DiscountDetail	Discount tier details. The information of each tier includes the duration, discounted quantity, total price, discounted price, and discount details (user discount, official website discount, or final discount).
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the discount information of cloud disks

This example shows you how to query the discount information of cloud disks.

Input Example

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

{
  "DiskType": "CLOUD_PREMIUM",
  "DiskSize": 50
}
```

Output Example

```
{
  "Response": {
    "Currency": "USD",
    "DiscountDetail": [
      {
        "TimeSpan": 1,
        "TimeUnit": "m",
        "Discount": 100,
        "PolicyDetail": {
          "UserDiscount": 100,
          "CommonDiscount": 100,

```

```
"ActivityDiscount": null,
"FinalDiscount": 100,
"DiscountType": null
},
"TotalCost": 50,
"RealTotalCost": 50
},
{
"TimeSpan": 2,
"TimeUnit": "m",
"Discount": 100,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 100,
"ActivityDiscount": null,
"FinalDiscount": 100,
"DiscountType": null
},
"TotalCost": 100,
"RealTotalCost": 100
},
{
"TimeSpan": 3,
"TimeUnit": "m",
"Discount": 100,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 100,
"ActivityDiscount": null,
"FinalDiscount": 100,
"DiscountType": null
},
"TotalCost": 150,
"RealTotalCost": 150
},
{
"TimeSpan": 4,
"TimeUnit": "m",
"Discount": 100,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 100,
"ActivityDiscount": null,
"FinalDiscount": 100,
"DiscountType": null
},
"TotalCost": 200,
```

```
"RealTotalCost": 200
},
{
  "TimeSpan": 5,
  "TimeUnit": "m",
  "Discount": 100,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 100,
    "ActivityDiscount": null,
    "FinalDiscount": 100,
    "DiscountType": null
  },
  "TotalCost": 250,
  "RealTotalCost": 250
},
{
  "TimeSpan": 6,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 300,
  "RealTotalCost": 264
},
{
  "TimeSpan": 7,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 350,
  "RealTotalCost": 308
},
{
  "TimeSpan": 8,
  "TimeUnit": "m",
```

```
"Discount": 88,
"PolicyDetail": {
  "UserDiscount": 100,
  "CommonDiscount": 88,
  "ActivityDiscount": 100,
  "FinalDiscount": 88,
  "DiscountType": "common"
},
"TotalCost": 400,
"RealTotalCost": 352
},
{
  "TimeSpan": 9,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 450,
  "RealTotalCost": 396
},
{
  "TimeSpan": 10,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 500,
  "RealTotalCost": 440
},
{
  "TimeSpan": 11,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
```

```
"FinalDiscount": 88,  
"DiscountType": "common"  
},  
"TotalCost": 550,  
"RealTotalCost": 484  
},  
{  
"TimeSpan": 12,  
"TimeUnit": "m",  
"Discount": 83,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 83,  
"ActivityDiscount": 100,  
"FinalDiscount": 83,  
"DiscountType": "common"  
},  
"TotalCost": 600,  
"RealTotalCost": 498  
},  
{  
"TimeSpan": 24,  
"TimeUnit": "m",  
"Discount": 70,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 70,  
"ActivityDiscount": 100,  
"FinalDiscount": 70,  
"DiscountType": "common"  
},  
"TotalCost": 1200,  
"RealTotalCost": 840  
},  
{  
"TimeSpan": 36,  
"TimeUnit": "m",  
"Discount": 50,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 50,  
"ActivityDiscount": 100,  
"FinalDiscount": 50,  
"DiscountType": "common"  
},  
"TotalCost": 1800,  
"RealTotalCost": 900
```

```
},
{
  "TimeSpan": 48,
  "TimeUnit": "m",
  "Discount": 50,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 50,
    "ActivityDiscount": 100,
    "FinalDiscount": 50,
    "DiscountType": "common"
  },
  "TotalCost": 2400,
  "RealTotalCost": 1200
},
{
  "TimeSpan": 60,
  "TimeUnit": "m",
  "Discount": 50,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 50,
    "ActivityDiscount": 100,
    "FinalDiscount": 50,
    "DiscountType": "common"
  },
  "TotalCost": 3000,
  "RealTotalCost": 1500
}
],
"RequestId": "250d48df-ded8-4ce0-92f5-10c13e673d06"
}
```

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.RequestError	A request error occurred.
FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalError.RequestError	There was an error in the request.
InternalError.TradeGetPriceFailed	Failed to get the price.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
UnauthorizedOperation.NoPermission	No permission

DescribeDisksDeniedActions

最近更新时间：2023-12-04 16:32:04

1. API Description

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

This API is used to query the list of operation limits of one or more cloud disks.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDisksDeniedActions.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	List of cloud disk IDs.

3. Output Parameters

Parameter Name	Type	Description
DiskDeniedActionSet	Array of	List of operation limits of cloud disks.

	DiskDeniedActions	
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 operation limits of cloud disks

Input Example

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

{
  "DiskIds": [
    "lhdisk-eobj8huv"
  ]
}
```

Output Example

```
{
  "Response": {
    "DiskDeniedActionSet": [
      {
        "DiskId": "lhdisk-eobj8huv",
        "DeniedActions": [
          {
            "Action": "DetachDisks",
            "Code": "UnsupportedOperation.InvalidDiskState",
            "Message": "Disk `lhdisk-eobj8huv` is in `To be attached` status and does not support this operation."
          }
        ]
      }
    ],
    "RequestId": "fd7fcb32-d48f-4d0e-ab33-e4985fc6e647"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalServerError.InvalidCommandNotFound	The command is not found.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
UnauthorizedOperation.NoPermission	No permission

DescribeDisksReturnable

最近更新时间：2023-12-04 16:32:03

1. API Description

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

This API is used to query whether the specified cloud disk can be returned.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDisksReturnable.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	No	Array of String	List of cloud disk IDs.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
Offset	No	Integer	Offset. Default value: 0.

3. Output Parameters

Parameter Name	Type	Description
DiskReturnableSet	Array of DiskReturnable	List of returnable cloud disks.
TotalCount	Integer	Number of eligible cloud disks.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying whether the specified disk can be returned

Input Example

```

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

{
  "DiskIds": [
    "lhdisk-eobj8huv"
  ]
}
    
```

Output Example

```

{
  "Response": {
    "TotalCount": 1,
    "DiskReturnableSet": [
      {
        "DiskId": "lhdisk-5vmz00i3",
        "IsReturnable": true,
        "ReturnFailCode": 0,
        "ReturnFailMessage": ""
      }
    ],
    "RequestId": "3eec6c10-a8c7-41e4-b4ba-c84a5000211d"
  }
}
    
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError.DescribeDisksReturnableError	The disk query returned invalid content.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
UnauthorizedOperation.NoPermission	No permission

DetachDisks

最近更新时间：2023-12-04 16:32:03

1. API Description

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

This API is used to detach one or more cloud disks.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DetachDisks.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	List of cloud disk IDs.

3. Output Parameters

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

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

4. Example

Example1 Detaching cloud disks

Input Example

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

{
  "DiskIds": [
    "lhdisk-eobj8huv"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "0d5e192e-10a2-44a6-a6ce-2ac6b01f7646"
  }
}
```

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.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
OperationDenied.DiskCreating	The disk is being created.
OperationDenied.DiskOperationInProgress	The disk is being manipulated. Try again later.
OperationDenied.DiskUsageNotSupportOperation	The cloud disk type of the disk does not support this operation.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
ResourceNotFound.DiskNotFound	The disk does not exist.
UnsupportedOperation.InvalidDiskState	The disk's status does not support this operation.
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

InquirePriceCreateDisks

最近更新时间：2023-12-04 16:32:03

1. API Description

Domain name for API request: `lighthouse.tencentcloudapi.com`.

This API is used to query the price of purchasing cloud disks.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: <code>InquirePriceCreateDisks</code> .
Version	Yes	String	Common Params . The value used for this API: <code>2020-03-24</code> .
Region	No	String	Common Params . This parameter is not required for this API.
DiskSize	Yes	Integer	Cloud disk size in GB.
DiskType	Yes	String	Cloud disk media type. Valid values: <code>"CLOUD_PREMIUM"</code> (premium cloud storage), <code>"CLOUD_SSD"</code> (SSD cloud disk).
DiskChargePrepaid	Yes	DiskChargePrepaid	Parameter settings for purchasing the monthly subscribed cloud disk.
DiskCount	No	Integer	Number of cloud disks. Default value: 1.

DiskBackupQuota	No	Integer	Specify the quota of disk backups. No quota if it's left empty. Only one quota is allowed.
-----------------	----	---------	--

3. Output Parameters

Parameter Name	Type	Description
DiskPrice	DiskPrice	Cloud disk price.
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 purchasing cloud disks

Input Example

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

{
  "DiskSize": 20,
  "DiskType": "CLOUD_SSD",
  "DiskChargePrepaid": {
    "Period": 1
  }
}
```

Output Example

```
{
  "Response": {
    "DiskPrice": {
      "OriginalDiskPrice": 20.0,
      "OriginalPrice": 20.0,
      "Discount": 100,
```

```
"DiscountPrice": 20.0,
"DetailPrices": [
  {
    "PriceName": "DiskSpace",
    "OriginUnitPrice": 20.0,
    "OriginalPrice": 20.0,
    "Discount": 100,
    "DiscountPrice": 20.0
  }
],
"RequestId": "25a4f680-0477-4f27-a494-1369eb310fe8"
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description

FailedOperation	Operation failed.
FailedOperation.RequestError	A request error occurred.
FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalError.RequestError	There was an error in the request.
InternalError.TradeGetPriceFailed	Failed to get the price.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.

InquirePriceRenewDisks

最近更新时间：2023-12-04 16:32:03

1. API Description

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

This API is used to query the price of renewing cloud disks.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: InquirePriceRenewDisks.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	List of cloud disk IDs.
RenewDiskChargePrepaid	Yes	RenewDiskChargePrepaid	Parameter settings for renewing the monthly subscribed cloud disk.

3. Output Parameters

Parameter Name	Type	Description
DiskPrice	DiskPrice	Cloud disk price.
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 renewing cloud disks

Input Example

```

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

{
  "DiskIds": [
    "lhdisk-5vmz00i3"
  ],
  "RenewDiskChargePrepaid": {
    "Period": 1
  }
}
    
```

Output Example

```

{
  "Response": {
    "DiskPrice": {
      "OriginalDiskPrice": 22.0,
      "OriginalPrice": 22.0,
      "Discount": 100,
      "DiscountPrice": 22.0,
      "DetailPrices": [
        {
          "PriceName": "DiskSpace",
          "OriginUnitPrice": 20.0,
          "OriginalPrice": 20.0,
          "Discount": 100,
        }
      ]
    }
  }
}
    
```

```

"DiscountPrice": 20.0
},
{
"PriceName": "DiskBackupQuota",
"OriginUnitPrice": 2.0,
"OriginalPrice": 2.0,
"Discount": 100,
"DiscountPrice": 2.0
}
]
},
"RequestId": "03da2972-121e-4dcc-9a10-4cbec5c8991a"
}
}
    
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description

FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalError.TradeGetPriceFailed	Failed to get the price.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
OperationDenied.DiskUsageNotSupportOperation	The cloud disk type of the disk does not support this operation.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.

ModifyDisksAttribute

最近更新时间：2023-12-04 16:32:03

1. API Description

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

This API is used to modify cloud disk 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: ModifyDisksAttribute.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	List of cloud disk IDs.
DiskName	Yes	String	Cloud disk name.

3. Output Parameters

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

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

4. Example

Example1 Renaming a disk

Input Example

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

{
  "DiskIds": [
    "lhdisk-djn43yh1"
  ],
  "DiskName": "test1"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1e7152c8-4653-4efd-86c0-fa633579db48"
  }
}
```

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.ModifyResourcesAttributeFailed	Failed to change the resource attribute. Try again later...
InternalError.TradeCallBillingGatewayFailed	Failed to call billing gateway service
InvalidParameter	Incorrect parameter.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
OperationDenied.DiskOperationInProgress	The disk is being manipulated. Try again later.
OperationDenied.DiskUsageNotSupportOperation	The cloud disk type of the disk does not support this operation.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
UnsupportedOperation.DiskLatestOperationUnfinished	Unsupported operation: the last operation of the disk has not been completed.
UnsupportedOperation.InvalidDiskState	The disk's status does not support this operation.

ModifyDisksRenewFlag

最近更新时间：2023-12-04 16:32:02

1. API Description

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

This API is used to modify the configuration of auto-renewal of cloud disks.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyDisksRenewFlag.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	List of cloud disk IDs.
RenewFlag	Yes	String	Whether Auto-Renewal is enabled

3. Output Parameters

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

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

4. Example

Example1 Modifying the renewal flag of disks

Input Example

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

{
  "DiskIds": [
    "lhdisk-qx45d7ik"
  ],
  "RenewFlag": "NOTIFY_AND_AUTO_RENEW"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "0d5e192e-10a2-44a6-a6ce-2ac6b01f7646"
  }
}
```

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
InvalidParameter	Incorrect parameter.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
OperationDenied.DiskCreating	The disk is being created.
OperationDenied.DiskOperationInProgress	The disk is being manipulated. Try again later.
OperationDenied.DiskUsageNotSupportOperation	The cloud disk type of the disk does not support this operation.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
ResourceNotFound.DiskNotFound	The disk does not exist.

DescribeDisks

最近更新时间：2023-12-04 16:32:04

1. API Description

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

This API is used to query the information of one or more cloud disks.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeDisks.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	No	Array of String	List of cloud disk IDs.
Filters.N	No	Array of Filter	Filter list disk-id Filter by cloud disk ID . Type: String Required: No instance-id Filter by instance ID . Type: String

			<p>Required: No</p> <p>disk-name</p> <p>Filter by cloud disk name.</p> <p>Type: String</p> <p>Required: No</p> <p>zone</p> <p>Filter by availability zone.</p> <p>Type: String</p> <p>Required: No</p> <p>disk-usage</p> <p>Filter by cloud disk type.</p> <p>Type: String</p> <p>Required: No</p> <p>Values: <code>SYSTEM_DISK</code> and <code>DATA_DISK</code></p> <p>disk-state</p> <p>Filter by cloud disk status.</p> <p>Type: String</p> <p>Required: No</p> <p>Values: See <code>DiskState</code> in Disk</p> <p>Each request can contain up to 10 <code>Filters</code> and 100 <code>Filter.Values</code> . <code>DiskIds</code> and <code>Filters</code> cannot be specified at the same time.</p>
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
Offset	No	Integer	Offset. Default value: 0.
OrderField	No	String	The field by which the cloud disks are sorted. Valid values: "CREATED_TIME" (creation time), "EXPIRED_TIME" (expiration time), "DISK_SIZE" (size of cloud disks). Default value: "CREATED_TIME".
Order	No	String	Sorting order of the output cloud disks. Valid values: "ASC" (ascending order), "DESC" (descending order). Default value: "DESC".

3. Output Parameters

Parameter Name	Type	Description
DiskSet	Array of Disk	List of cloud disk information.
TotalCount	Integer	Number of eligible cloud disks.

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

4. Example

Example1 Querying disks

This example shows you how to query disks.

Input Example

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

{
  "DiskIds": [
    "lhdisk-p1zflrif"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "DiskSet": [
      {
        "DiskId": "lhdisk-p1zflrif",
        "InstanceId": "lhins-anxwfvxh",
        "Zone": "ap-guangzhou-3",
        "DiskName": "lhdisk-p1zflrif-system-disk",
        "DiskUsage": "DATA_DISK",
        "DiskType": "CLOUD_PREMIUM",
        "DiskChargeType": "PREPAID",
        "DiskSize": 30,
        "RenewFlag": "NOTIFY_AND_AUTO_RENEW",
        "DiskState": "ATTACHED",
        "Attached": true,
        "DeleteWithInstance": false,
        "DiskBackupCount": 1,
        "DiskBackupQuota": 1,

```

```
"LatestOperation": "DetachDisks",
"LatestOperationState": "FAILED",
"LatestOperationRequestId": "54118bb6-7206-43f7-bf53-b77a394ad51e",
"CreatedTime": "2021-08-25T08:50:57Z",
"ExpiredTime": "2021-10-28T09:11:37Z",
"IsolatedTime": null
}
],
"RequestId": "b362f486-571c-4094-afd5-22a38bd63046"
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	Error with CAM signature/authentication.
FailedOperation	Operation failed.

InternalServerError.InvalidCommandNotFound	The command is not found.
InvalidParameter.FilterValueLimitExceeded	Invalid parameter: the number of <code>Values</code> in the <code>Filter</code> parameter exceeds the allowed maximum number.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidKey	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
InvalidParameter.ParameterConflict	Invalid parameter: the parameters conflict.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.DiskNameTooLong	The disk name is too long.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
InvalidParameterValue.InvalidZone	Invalid <code>Zone</code> value.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
InvalidParameterValue.RegionNotFound	The region does not exist.
InvalidParameterValue.RegionNotMatch	The regions do not match.
InvalidParameterValue.RegionNotSupported	Unsupported region.
InvalidParameterValue.RegionUnavailable	The region is unavailable.
InvalidParameterValue.ZoneInvalid	Invalid AZ.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
UnauthorizedOperation.NoPermission	No permission

TerminateDisks

最近更新时间：2023-12-04 16:32:02

1. API Description

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

This API is used to terminate one or more cloud disk.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: TerminateDisks.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
DiskIds.N	Yes	Array of String	List of cloud disk IDs.

3. Output Parameters

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

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

4. Example

Example1 Terminating cloud disks

This example shows you how to terminates cloud disks.

Input Example

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

{
  "DiskIds": [
    "lhdisk-p1zflrif"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "0d5e192e-10a2-44a6-a6ce-2ac6b01f7646"
  }
}
```

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.DestroyResourcesFailed	Unable to terminate the resource. Please retry later.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
OperationDenied.DiskOperationInProgress	The disk is being manipulated. Try again later.
OperationDenied.DiskUsageNotSupportOperation	The cloud disk type of the disk does not support this operation.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
UnsupportedOperation.InvalidDiskState	The disk's status does not support this operation.

Snapshot APIs

ApplyInstanceSnapshot

最近更新时间：2023-12-04 16:31:52

1. API Description

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

This API is used to roll back the system disk snapshot of the specified instance.

- Only rollback to the original system disk is supported.
- Only snapshots in `NORMAL` status can be used for rollback. To query the status of a snapshot, you can call the `DescribeSnapshots` API and see the `SnapshotState` field in the response.
- When a snapshot is rolled back, the status of the instance must be `STOPPED` or `RUNNING`. You can call the `DescribeInstances` API to query the instance status. Instances in `RUNNING` status will be forcibly shut down before snapshot rollback.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ApplyInstanceSnapshot.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID.

SnapshotId	Yes	String	Snapshot 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 Rolling back instance snapshot

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ApplyInstanceSnapshot
&InstanceId=lhins-k31c771o
&SnapshotId=lhsnap-nv6aqcv6
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "96aee6e3-172c-4f0f-be7c-fc46b9865763"
  }
}
```

5. Developer Resources

SDK

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

- [Tencent Cloud SDK 3.0 for Python](#)
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- [Tencent Cloud SDK 3.0 for 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.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.SnapshotOperationFailed	Failed to manipulate the snapshot.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InvalidParameterValue.DiskSizeNotMatch	The disk size has changed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.SnapshotIdMalformed	Invalid parametric value: the snapshot ID format is invalid.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.DiskNotFound	The disk does not exist.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.SnapshotIdNotFound	The snapshot ID does not exist.
ResourceNotFound.SnapshotNotFound	The snapshot does not exist.

UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.DiskBusy	The disk is busy.
UnsupportedOperation.DiskLatestOperationUnfinished	Unsupported operation: the last operation of the disk has not been completed.
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.InvalidSnapshotState	Unsupported operation: the snapshot status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.
UnsupportedOperation.SnapshotBusy	The snapshot is busy.
UnsupportedOperation.SystemBusy	System busy

CreateInstanceSnapshot

最近更新时间：2023-12-04 16:31:52

1. API Description

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

This API is used to create a system disk snapshot of the specified instance.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateInstanceSnapshot.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	ID of the instance for which to create a snapshot.
SnapshotName	No	String	Snapshot name, which can contain up to 60 characters.

3. Output Parameters

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

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

4. Example

Example1 Creating an instance snapshot

This example shows you how to create an instance snapshot.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=CreateInstanceSnapshot
&InstanceId=lhins-k31c771o
&SnapshotName=snap_20200903
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "SnapshotId": "lhsnap-nv6aqcv6",
    "RequestId": "0580622c-03ef-4ae0-8192-016783412094"
  }
}
```

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.DescribeInstanceStatus	An error occurred when querying the instance status.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalError.GetSnapshotAllocQuotaLockError	Failed to get the snapshot quota lock.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.SnapshotNameTooLong	Invalid parametric value: the length of the snapshot name exceeds the upper limit.
LimitExceeded.SnapshotQuotaLimitExceeded	The snapshot quota is exceeded.
OperationDenied.OperationDeniedCreateSnapshot	Creating snapshot is not allowed.
OperationDenied.OperationDeniedCreateSnapshotForStorageBundle	Instances using storage packages do not support snapshot creation.
ResourceNotFound.BlueprintIdNotFound	The image ID does not exist.
ResourceNotFound.DiskNotFound	The disk does not exist.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.DiskBusy	The disk is busy.
UnsupportedOperation.DiskLatestOperationUnfinished	Unsupported operation: the last

	operation of the disk has not been completed.
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

DeleteSnapshots

最近更新时间：2023-12-04 16:31:51

1. API Description

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

This API is used to delete a snapshot.

The snapshot must be in `NORMAL` status. To query the status of a snapshot, you can call the `DescribeSnapshots` API and see the `SnapshotState` field in the response.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteSnapshots.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
SnapshotIds.N	Yes	Array of String	List of IDs of snapshots to be deleted, which can be queried through <code>DescribeSnapshots</code> .

3. Output Parameters

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

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

4. Example

Example1 Deleting snapshot

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DeleteSnapshots
&SnapshotIds.0=lhsnap-nv6aqcv6
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "95cd6073-240b-4337-8c04-46345fcbbeb1"
  }
}
```

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 .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.RequestError	A request error occurred.
FailedOperation.SnapshotOperationFailed	Failed to manipulate the snapshot.
InternalError.RequestError	There was an error in the request.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.SnapshotIdMalformed	Invalid parametric value: the snapshot ID format is invalid.
ResourceNotFound.SnapshotIdNotFound	The snapshot ID does not exist.
ResourceNotFound.SnapshotNotFound	The snapshot does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidSnapshotState	Unsupported operation: the snapshot status is invalid.
UnsupportedOperation.SnapshotBusy	The snapshot is busy.

DescribeSnapshots

最近更新时间：2023-12-04 16:31:51

1. API Description

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

This API is used to query the list of snapshots.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeSnapshots.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
SnapshotIds.N	No	Array of String	List of IDs of snapshots to be queried. You cannot specify <code>SnapshotIds</code> and <code>Filters</code> at the same time.
Filters.N	No	Array of Filter	Filter list. <ul style="list-style-type: none"> snapshot-id Filter by snapshot ID. Type: String Required: no disk-id Filter by disk ID. Type: String

			Required: no • snapshot-name Filter by snapshot name . Type: String Required: no • instance-id Filter by instance ID . Type: String Required: no Each request can contain up to 10 <code>Filters</code> and 5 <code>Filter.Values</code> . You cannot specify both <code>SnapshotIds</code> and <code>Filters</code> at the same time.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of snapshots.
SnapshotSet	Array of Snapshot	List of snapshot details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying snapshot list

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeSnapshots
&Filters.0.Name=disk-id
&Filters.0.Values.0=lhdisk-f71kc5bh
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "SnapshotSet": [
      {
        "SnapshotId": "lhsnap-nv6aqcv6",
        "DiskUsage": "SYSTEM_DISK",
        "DiskId": "lhdisk-f71kc5bh",
        "DiskSize": 50,
        "SnapshotName": "lighthouse-test1-0903145122",
        "SnapshotState": "NORMAL",
        "Percent": "100",
        "LatestOperation": "RollbackInstanceSnapshot",
        "LatestOperationState": "SUCCESS",
        "LatestOperationRequestId": "96aee6e3-172c-4f0f-be7c-fc46b9865763",
        "CreatedTime": "2020-09-03T06:51:23Z"
      }
    ],
    "RequestId": "95aacc96-b271-4d8b-bf83-019647952af9"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InvalidParameter.FilterValueLimitExceeded	Invalid parameter: the number of <code>Values</code> in the <code>Filter</code> parameter exceeds the allowed maximum number.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidKey	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidNameNotStr	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is not a string.
InvalidParameter.InvalidFilterInvalidValuesNotList	Invalid parameter: the <code>Values</code> in the <code>Filter</code> parameter is not a list.
InvalidParameter.InvalidFilterNotDict	Invalid parameter: the <code>Filter</code> parameter is not a dictionary.
InvalidParameter.InvalidFilterNotSupportedName	Invalid parameter: there are unsupported <code>Name</code> values in the <code>Filter</code> parameter.
InvalidParameter.ParameterConflict	Invalid parameter: the parameters conflict.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
InvalidParameterValue.SnapshotIdMalformed	Invalid parametric value: the snapshot ID format is invalid.
InvalidParameterValue.SnapshotNameTooLong	Invalid parametric value: the length of the snapshot name exceeds the upper limit.

UnauthorizedOperation.NoPermission	No permission
------------------------------------	---------------

DescribeSnapshotsDeniedActions

最近更新时间：2023-12-04 16:31:51

1. API Description

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

This API is used to query the list of operation limits of one or more snapshots.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeSnapshotsDeniedActions.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
SnapshotIds.N	Yes	Array of String	Snapshot ID list, which can be queried through <code>DescribeSnapshots</code> .

3. Output Parameters

Parameter Name	Type	Description
SnapshotDeniedActionSet	Array of	List of snapshot operation limit details.

	SnapshotDeniedActions	
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 operation limits of instances

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeSnapshotsDeniedActions
&SnapshotIds.0=lhsnap-nv6aqcv6
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "SnapshotDeniedActionSet": [
      {
        "SnapshotId": "lhsnap-nv6aqcv6",
        "DeniedActions": [
          {
            "Action": "RollbackInstanceSnapshot",
            "Code": "UnsupportedOperation.DiskLatestOperationUnfinished",
            "Message": "The disk `lhdisk-f71kc5bh` is `rolling back an instance snapshot` and does not support this operation"
          },
          {
            "Action": "DeleteSnapshots",
            "Code": "UnsupportedOperation.InvalidSnapshotState",
            "Message": "The snapshot `lhsnap-nv6aqcv6` is in `ROLLBACKING` status and does not support this operation"
          }
        ]
      }
    ]
  },
  "RequestId": "82069c10-0228-4ffa-a649-81b2b4e85513"
}
```


5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.SnapshotIdMalformed	Invalid parametric value: the snapshot ID format is invalid.
UnauthorizedOperation.NoPermission	No permission

ModifySnapshotAttribute

最近更新时间：2023-12-04 16:31:51

1. API Description

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

This API is used to modify the attributes of a snapshot.

- The snapshot name is used only for users' convenience.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifySnapshotAttribute.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
SnapshotId	Yes	String	Snapshot ID, which can be queried through <code>DescribeSnapshots</code> .
SnapshotName	No	String	New snapshot name, which can contain up to 60 characters.

3. Output Parameters

--	--	--

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

4. Example

Example1 Modifying snapshot attribute

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ModifySnapshotAttribute
&SnapshotId=lhsnap-nv6aqcv6
&SnapshotName=snap_20200903
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "a69469d0-b087-4f59-9557-7cde23662f8f"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InvalidParameterValue.SnapshotIdMalformed	Invalid parametric value: the snapshot ID format is invalid.
InvalidParameterValue.SnapshotNameTooLong	Invalid parametric value: the length of the snapshot name exceeds the upper limit.
ResourceNotFound.SnapshotIdNotFound	The snapshot ID does not exist.

Key APIs

AssociateInstancesKeyPairs

最近更新时间：2023-12-04 16:31:55

1. API Description

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

This API is used to bind a user-specified key pair to an instance.

- Only instances on LINUX_UNIX in [RUNNING, STOPPED] status are supported. Instances in `RUNNING` status will be forcibly shut down before binding.
- If the public key of a key pair is written to the SSH configuration of the instance, you 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 instances not available for the operation are selected, you will get an error code.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (LatestOperationState) of the instance 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	Required	Type	Description
-----------	----------	------	-------------

Name			
Action	Yes	String	Common Params . The value used for this API: AssociateInstancesKeyPairs.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
KeyIds.N	Yes	Array of String	Key pair ID list. Each request can contain up to 100 key pairs.
InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.

3. Output Parameters

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

4. Example

Example1 Binding key pair to instance

This example shows you how to bind a key pair to an instance.

Input Example

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

{
  "InstanceIds": [
    "lhins-ruy9d2tw"
  ],

```

```
"KeyIds": [
  "lhkp-f7rjie1q"
]
```

Output Example

```
{
  "Response": {
    "RequestId": "f192c1a9-580e-4653-9d54-ba42cd4353a3"
  }
}
```

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.DescribeInstanceStatus	An error occurred when querying the instance

	status.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalError.InvalidCommandNotFound	The command is not found.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.KeyPairIdMalformed	Invalid parametric value: the key pair ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.KeyIdNotFound	The key pair ID does not exist.
UnauthorizedOperation.MFAExpired	MFA has expired.
UnauthorizedOperation.MFANotFound	MFA does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.KeyPairBindDuplicate	Unsupported operation: one key pair cannot be bound to the same instance repeatedly.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of

	the instance has not been completed.
UnsupportedOperation.WindowsNotAllowedToAssociateKeyPair	Windows instances do not support binding key pairs.
UnsupportedOperation.WindowsNotSupportKeyPair	SSH key pair is not available for Windows instances

CreateKeyPair

最近更新时间：2023-12-04 16:31:55

1. API Description

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

This API is used to create a key pair.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the 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: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
KeyName	Yes	String	Key pair name, which can contain up to 25 digits, letters, and underscores.

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 key pair

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=CreateKeyPair
&KeyName=test_create_1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "KeyPair": {
      "KeyId": "lhkp-hfenegt1",
      "KeyName": "test_create_1",
      "PublicKey": "xxxxxx",
      "AssociatedInstanceIds": [],
      "CreatedTime": null,
      "PrivateKey": "xxxxxx"
    },
    "RequestId": "02dc35eb-06f0-477f-9b06-c980bc56c18d"
  }
}
```

5. Developer Resources

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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.CreateKeyPairFailed	Failed to create the key pair.
InvalidParameterValue.DuplicateParameterValue	The parameter <code>KeyName</code> already exists and is duplicate.
InvalidParameterValue.InvalidKeyNameEmpty	Invalid parametric value.
InvalidParameterValue.InvalidKeyNameIncludeIllegalChar	The key pair name is invalid.
InvalidParameterValue.InvalidKeyNameTooLong	The parameter length is invalid.
LimitExceeded.KeyPairLimitExceeded	The key pair quota is exceeded.
UnauthorizedOperation.NoPermission	No permission

DeleteKeyPairs

最近更新时间：2023-12-04 16:31:55

1. API Description

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

This API is used to delete a key pair.

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: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
KeyIds.N	Yes	Array of String	Key pair ID list. Each request can contain up to 10 key pairs.

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 key pair

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DeleteKeyPairs
&KeyIds.0=lhkp-1234abcd
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "3cc773c5-f5fe-49f2-8eb0-f6304f5ee39c"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.DeleteKeyPairFailed	Failed to delete the key pair.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.KeyPairIdMalformed	Invalid parametric value: the key pair ID format is invalid.
ResourceInUse.KeyPairInUse	The key pair is in use.
ResourceNotFound.KeyIdNotFound	The key pair ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.KeyPairBindToBlueprints	Unsupported operation: the <code>KeyPair</code> has a binding relationship with the image. Before performing this operation, please delete the custom image bound to the key pair.

DescribeInstanceLoginKeyPairAttribute

最近更新时间：2023-12-04 16:31:54

1. API Description

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

This API is used to query the attributes of the default login key of an instance.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeInstanceLoginKeyPairAttribute.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID.

3. Output Parameters

Parameter Name	Type	Description
PermitLogin	String	Whether to allow login with the default key pair. Valid values: YES, NO.

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

4. Example

Example1 Querying the attributes of default login key of instance

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeInstanceLoginKeyPairAttribute
&InstanceId=lhins-j4liwha8
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "PermitLogin": "NO",
    "RequestId": "17a8c37b-0901-402a-b7b2-357998b2bcd8"
  }
}
```

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
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnsupportedOperation.OperationOffline	

DescribeKeyPairs

最近更新时间：2023-12-04 16:31:54

1. API Description

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

This API is used to query key pairs.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeKeyPairs.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
KeyIds.N	No	Array of String	Key pair ID list.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
Filters.N	No	Array of Filter	Filter list. <ul style="list-style-type: none">key-id Filter by key pair ID . Type: String

			Required: no • key-name Filter by the key pair name . Fuzzy match is supported. Type: String Required: no Each request can contain up to 10 <code>Filters</code> and up to 5 <code>Filter.Values</code> for each filter. <code>KeyIds</code> and <code>Filters</code> cannot be specified at the same time.
--	--	--	---

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible key pairs.
KeyPairSet	Array of KeyPair	List of key pair details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying key pair list

Input Example

```

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

{
  "KeyIds": [
    "lhkp-omd12oc1"
  ]
}
    
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "KeyPairSet": [
      {
        "KeyId": "lhkp-omd12oc1",
        "KeyName": "test",
        "PublicKey": "",
        "AssociatedInstanceIds": [],
        "CreatedTime": "2020-04-28T23:01:47Z",
        "PrivateKey": "null"
      }
    ],
    "RequestId": "9abb999a-53d6-4534-9b49-00e53b5c0fea"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.ParameterConflict	Invalid parameter: the parameters conflict.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.KeyPairIdMalformed	Invalid parametric value: the key pair ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
UnauthorizedOperation.NoPermission	No permission

DisassociateInstancesKeyPairs

最近更新时间：2023-12-04 16:31:54

1. API Description

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

This API is used to unbind an instance from the specified key pair.

- Only instances on LINUX_UNIX in [RUNNING, STOPPED] status are supported. Instances in `RUNNING` status will be forcibly shut down before unbinding.
- After a key pair is unassociated from an instance, you can log in to the instance with password.
- If no password was set, you cannot log in to the instance with SSH after unbinding. You can call the `ResetInstancesPassword` API to set a login password.
- Batch operations are supported. The maximum number of instances in each request is 100.
- This API is async. After the request is sent successfully, a `RequestId` will be returned. At this time, the operation is not completed immediately. The result of the instance operation can be queried by calling the `DescribeInstances` API. If the latest operation status (LatestOperationState) of the instance is `SUCCESS`, the operation is successful.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the 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: 2020-03-24.

Region	No	String	Common Params . This parameter is not required for this API.
KeyIds.N	Yes	Array of String	Key pair ID list. Each request can contain up to 100 key pairs.
InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.

3. Output Parameters

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

4. Example

Example1 Unbinding key pair

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DisassociateInstancesKeyPairs
&InstanceIds.0=lhins-ruy9d2tw
&KeyIds.0=lhkp-f7rjie1q
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "c81db282-c4e7-400e-aba4-6069a1537e77"
  }
}
```

5. Developer Resources

SDK

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

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
InternalServerError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.KeyPairIdMalformed	Invalid parameter value: the key pair ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parameter value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.OutOfRange	Invalid parameter value: it is not within the valid range.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is

	being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.KeyIdNotFound	The key pair ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.KeyPairNotBoundToInstance	Unsupported operation: key pairs that are not bound to instances cannot be unbound from instances.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

ImportKeyPair

最近更新时间：2023-12-04 16:31:54

1. API Description

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

This API is used to import the specified key pair.

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: ImportKeyPair.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
KeyName	Yes	String	Key pair name, which can contain up to 25 digits, letters, and underscores.
PublicKey	Yes	String	Public key content of the key pair, which is in the OpenSSH RSA format.

3. Output Parameters

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

Name		
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 key pair

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ImportKeyPair
&KeyName=test_import
&PublicKey=<public key content>
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "KeyId": "lhkp-2xsmy15f",
    "RequestId": "87e6cf6c-1734-497e-aed5-9e12afa7237a"
  }
}
```

5. Developer Resources

SDK

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

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.CreateKeyPairFailed	Failed to create the key pair.
FailedOperation.DeleteKeyPairFailed	Failed to delete the key pair.
FailedOperation.ImportKeyPairFailed	Failed to import the key pair.
InvalidParameterValue.DuplicateParameterValue	The parameter <code>KeyName</code> already exists and is duplicate.
InvalidParameterValue.InvalidKeyPairNameEmpty	Invalid parametric value.
InvalidParameterValue.InvalidKeyPairNameTooLong	The parameter length is invalid.
InvalidParameterValue.KeyPairPublicKeyDuplicated	The public key of this key pair already exists in the system and cannot be reused.
InvalidParameterValue.KeyPairPublicKeyMalformed	The format of the specified public key is incorrect.
LimitExceeded.KeyPairLimitExceeded	The key pair quota is exceeded.
UnauthorizedOperation.NoPermission	No permission

ModifyInstancesLoginKeyPairAttribute

最近更新时间：2023-12-04 16:31:54

1. API Description

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

This API is used to set the attributes of the default login key pair 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: ModifyInstancesLoginKeyPairAttribute.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID list. Each request can contain up to 100 instances at a time.
PermitLogin	No	String	Whether to allow login with the default key pair. Valid values: YES: yes; NO: no.

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 Forbidding login to instance with default key pair

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ModifyInstancesLoginKeyPairAttribute
&InstanceIds.0=lhins-ruy9d2tw
&PermitLogin=NO
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "fb3c565c-1ce9-43de-9b4e-58855716b16d"
  }
}
```

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.DescribeInstanceStatus	An error occurred when querying the instance status.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InvalidInstanceLoginKeyPairPermitLogin	The value of setting whether to use the default key pair for login is incorrect.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.
UnsupportedOperation.OperationOffline	

CCN APIs

AttachCcn

最近更新时间：2023-12-04 16:32:02

1. API Description

Domain name for API request: `lighthouse.tencentcloudapi.com`.

This API is used to associate a CCN instance.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: <code>AttachCcn</code> .
Version	Yes	String	Common Params . The value used for this API: <code>2020-03-24</code> .
Region	No	String	Common Params . This parameter is not required for this API.
CcnId	Yes	String	CCN instance ID.

3. Output Parameters

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

locating a problem.

4. Example

Example1 Associating CCN instance

Input Example

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

{
  "CcnId": "ccn-pf78xmcp"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "9340eb20-859b-4840-9fa4-12cd4ff7f5c9"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.
InvalidParameterValue.CcnIdMalformed	The ID format of the CCN instance is invalid.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AttachCcnConditionUnsatisfied	Unable to associate with CCN: there is no instance in this region
UnsupportedOperation.AttachCcnFailed	Failed to associate the CCN instance. Please check the CCN status and try again later.
UnsupportedOperation.CcnAlreadyAttached	The CCN instance is already associated, and reassociation is not supported.

DescribeCcnAttachedInstances

最近更新时间：2023-12-04 16:32:02

1. API Description

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

This API is used to query the information of instances associated with CCN.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeCcnAttachedInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
CcnAttachedInstanceSet	Array of CcnAttachedInstance	List of instances associated with the CCN instance. Note: this field may return null, indicating that no valid values can be obtained.

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

4. Example

Example1 Querying the information of instances associated with CCN

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "CcnAttachedInstanceSet": [
      {
        "CcnId": "ccn-pf78xmcp",
        "CidrBlock": [
          "10.0.0.0/16"
        ],
        "State": "PENDING",
        "AttachedTime": "2021-05-08 17:21:05",
        "Description": "Lighthouse attach ccn instance"
      }
    ],
    "RequestId": "b0f73b4b-bf36-4611-8e3b-e3dfe0353cd6"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.RequestError	A request error occurred.
InternalError	Internal error.
InternalError.RequestError	There was an error in the request.
InvalidParameterValue.CcnIdMalformed	The ID format of the CCN instance is invalid.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.DescribeCcnAttachedInstancesFailed	Failed to query the status of the associated CCN instance. Please try again later.

DetachCcn

最近更新时间：2023-12-04 16:32:01

1. API Description

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

This API is used to disassociate with a CCN instance.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DetachCcn.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
CcnId	Yes	String	CCN instance ID.

3. Output Parameters

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

4. Example

Example1 Unassociates CCN instance

Unassociates CCN instance

Input Example

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

{
  "CcnId": "ccn-pf78xmcp"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "6c947389-ed9f-4c7a-ba68-4b118a4ac11a"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.
InvalidParameterValue.CcnIdMalformed	The ID format of the CCN instance is invalid.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.CcnNotAttached	No CCN instance has been associated yet, so this operation is not supported.
UnsupportedOperation.DetachCcnFailed	Failed to unassociate the CCN instance. Please check the CCN status and try again later.

ResetAttachCcn

最近更新时间：2023-12-04 16:32:01

1. API Description

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

This API is used to apply for association again after a CCN instance association application expires.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ResetAttachCcn.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
CcnId	Yes	String	CCN instance ID.

3. Output Parameters

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

4. Example

Example1 Applying for associating with CCN again

Input Example

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

{
  "CcnId": "ccn-pf78xmcp"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "92de8d42-4ef3-4d43-bf15-8e0d00b66cb9"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.
InvalidParameterValue.CcnIdMalformed	The ID format of the CCN instance is invalid.
MissingParameter	Missing parameter.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.CcnNotAttached	No CCN instance has been associated yet, so this operation is not supported.
UnsupportedOperation.ResetAttachCcnFailed	Failed to reapply to associate a CCN instance. Please check the CCN status and try again later.

Image APIs

CreateBlueprint

最近更新时间：2023-12-04 16:32:00

1. API Description

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

This API is used to create an image.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateBlueprint.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
BlueprintName	Yes	String	Image name, which can contain up to 60 characters.
Description	No	String	Image description, which can contain up to 60 characters.
InstanceId	No	String	ID of the instance for which to make an image.
ForcePowerOff	No	Boolean	Whether to forcibly shut down the instance before creating the image Valid values: <code>True</code> : Shut down and instance first

False : Create the image when the instance is running
 Default: True
 Note that if you create an image when the instance is running, there might be data loss.

3. Output Parameters

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

4. Example

Example1 Creating an image of a Lighthouse instance

This example shows you how to create an image.

Input Example

```

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

{
  "BlueprintName": "test-blueprint",
  "InstanceId": "lhins-7ugtz5e1"
}
    
```

Output Example

```

{
  "Response": {
    "BlueprintId": "lhbp-xkeh87da",
    "RequestId": "6bdba9db-c3fe-45b2-87f3-b0125d901a90"
  }
}
    
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.CreateBlueprintFailed	Failed to create the image.
FailedOperation.InsufficientBalance	
FailedOperation.UnableToCreateBlueprint	The operation failed. The custom image could not be created.
InternalError	Internal error.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.

InvalidParameterValue.Toolong	The length of the parameter value exceeds the upper limit.
LimitExceeded.BlueprintQuotaLimitExceeded	Failed to create the custom image: Reached the upper limit of custom image quota.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.

DescribeBlueprintInstances

最近更新时间：2023-12-04 16:31:59

1. API Description

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

This API is used to query the information of an image 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: DescribeBlueprintInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	Instance ID list, which currently can contain only one instance.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible image instances.

BlueprintInstanceSet	Array of BlueprintInstance	Image instance list information.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying image instance information

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeBlueprintInstances
&InstanceIds.0=lhins-f4s49nap
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "BlueprintInstanceSet": [
      {
        "InstanceId": "lhins-aaaabbbb",
        "Blueprint": {
          "BlueprintId": "lhbp-5e8807sc",
          "DisplayTitle": "wordpress",
          "DisplayVersion": "5.3.2",
          "Description": "Personal blog website construction",
          "OsName": "CentOS-7.6-64bit",
          "Platform": "CENTOS",
          "PlatformType": "LINUX_UNIX",
          "BlueprintName": "my-blueprint",
          "BlueprintType": "APP_OS",
          "ImageUrl": "http://www.wordpress.com/image",
          "RequiredMemorySize": 2,
          "RequiredSystemDiskSize": 10,
          "BlueprintState": "NORMAL",
          "SupportAutomationTools": true,
          "CreatedTime": "2020-09-22T00:00:00+00:00",
          "ImageId": "img-f82x51xe"
        },
        },
      "SoftwareSet": [
        {
```

```
"Name": "wordpress",
"Version": "5.3.2",
"ImageUrl": "",
"InstallDir": "/usr/local/lighthouse/softwares/wordpress",
"DetailSet": [
{
"Key": "IndexUrl",
"Title": "Homepage address",
"Value": "http://xxx.xxx.xxx.xxx"
}
]
},
"RequestId": "989f74ea-567c-4c99-a24e-7bc200cf679b"
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.InvalidCommandNotFound	The command is not found.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.NoPermission	No permission

InquirePriceCreateBlueprint

最近更新时间：2023-12-04 16:31:59

1. API Description

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

This API is used to query the price of a created image.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: InquirePriceCreateBlueprint.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
BlueprintCount	No	Integer	Number of custom images. Default value: 1.

3. Output Parameters

Parameter Name	Type	Description
BlueprintPrice	BlueprintPrice	Custom image price.

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

4. Example

Example1 Querying image price

Input Example

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

{
  "BlueprintCount": 5
}
```

Output Example

```
{
  "Response": {
    "BlueprintPrice": {
      "OriginalBlueprintPrice": 0.008,
      "OriginalPrice": 0.04,
      "Discount": 100,
      "DiscountPrice": 0.04
    },
    "RequestId": "afde8c49-eb92-4545-a464-ebe788a249c4"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.RequestError	A request error occurred.
FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalError	Internal error.
InternalError.RequestError	There was an error in the request.
InternalError.TradeGetPriceFailed	Failed to get the price.
UnauthorizedOperation.NoPermission	No permission

DescribeBlueprints

最近更新时间：2023-12-04 16:31:59

1. API Description

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

This API is used to query the information of an 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: DescribeBlueprints.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
BlueprintIds.N	No	Array of String	Image ID list.
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , please see the relevant section in Overview .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , please see the relevant section in the API Overview .
Filters.N	No	Array	Filter list.

		of Filter	<ul style="list-style-type: none"> • blueprint-id Filter by the image ID. Type: String Required: no • blueprint-type Filter by the image type. Valid values: <code>APP_OS</code> (application image), <code>PURE_OS</code> (system image), <code>DOCKER</code> (Docker container image), <code>PRIVATE</code> (custom image), <code>SHARED</code> (shared image) Type: String Required: no • platform-type Filter by the image operating system. Valid values: <code>LINUX_UNIX</code> (Linux or Unix), <code>WINDOWS</code> (Windows) Type: String Required: no • blueprint-name Filter by the image name. Type: String Required: no • blueprint-state Filter by the image status. Type: String Required: no • scene-id Filter by the scene ID. Type: String Required: no <p>Each request can contain up to 10 <code>Filters</code>, each of which can contain up to 100 <code>Filter.Values</code>. <code>BlueprintIds</code> and <code>Filters</code> cannot be specified at the same time.</p>
--	--	------------------------------	--

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible images.
BlueprintSet	Array of Blueprint	Image details list.

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

4. Example

Example1 Querying image information

This example shows you how to query image information.

Input Example

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

{
  "BlueprintIds": [
    "lhbp-5e8807sc"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "BlueprintSet": [
      {
        "BlueprintId": "lhbp-5e8807sc",
        "DisplayTitle": "wordpress",
        "DisplayVersion": "5.3.2",
        "Description": "Personal blog website construction",
        "OsName": "CentOS-7.6-64bit",
        "Platform": "CENTOS",
        "PlatformType": "LINUX_UNIX",
        "BlueprintType": "APP_OS",
        "ImageUrl": "http://www.wordpress.com/image",
        "RequiredSystemDiskSize": 50,
        "BlueprintState": "NORMAL",
        "CreatedTime": "2020-04-28T03:46:09Z",
        "BlueprintName": "Wordpress",
        "SupportAutomationTools": true,

```

```
"RequiredMemorySize": 1,
"ImageId": "",
"SceneIdSet": [],
"CommunityUrl": "CommunityUrl_test",
"GuideUrl": "GuideUrl_test"
},
],
"RequestId": "3df9cd92-cec1-4864-a2a1-358084f41551"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeBlueprintsFailed	Failed to query the image. Try again later.
InternalError.InvalidCommandNotFound	The command is not found.

InvalidParameter.FilterValueLimitExceeded	Invalid parameter: the number of <code>Values</code> in the <code>Filter</code> parameter exceeds the allowed maximum number.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidKey	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidNameNotStr	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is not a string.
InvalidParameter.InvalidFilterNotDict	Invalid parameter: the <code>Filter</code> parameter is not a dictionary.
InvalidParameter.InvalidFilterNotSupportedName	Invalid parameter: there are unsupported <code>Name</code> values in the <code>Filter</code> parameter.
InvalidParameter.ParameterConflict	Invalid parameter: the parameters conflict.
InvalidParameterValue.BlueprintIdMalformed	Invalid parameter value: the image ID format is invalid.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InvalidBlueprintPlatformType	The type of the image OS is invalid.
InvalidParameterValue.InvalidBlueprintState	Invalid image status value
InvalidParameterValue.InvalidBlueprintType	The image type is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
InvalidParameterValue.TooLong	The length of the parameter value exceeds the upper limit.
ResourceNotFound.RoleNotFound	The service role does not exist. Please add it to the account.
ResourceNotFound.SceneIdNotFound	Scene ID not found.
UnauthorizedOperation.NoPermission	No permission

UnauthorizedOperation.TokenInvalid

DeleteBlueprints

最近更新时间：2023-12-04 16:32:00

1. API Description

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

This API is used to delete an image.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteBlueprints.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
BlueprintIds.N	Yes	Array of String	Image ID list, which can be obtained from the <code>BlueprintId</code> returned by the DescribeBlueprints API.

3. Output Parameters

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

locating a problem.

4. Example

Example1 Deleting a custom image

This example shows you how to delete a custom image.

Input Example

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

{
  "BlueprintIds": [
    "lhbp-1ynlfst1"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "ecad302e-6952-4c06-a64c-2f8f6c526029"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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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.DestroyResourcesFailed	Unable to terminate the resource. Please retry later.
FailedOperation.TradeCallBillingGatewayFailed	Failed to call the billing gateway service. Please try again later.
InternalServerError	Internal error.
InternalServerError.TradeCallBillingGatewayFailed	Failed to call billing gateway service
InvalidParameterValue.BlueprintIdMalformed	Invalid parameter value: the image ID format is invalid.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
ResourceNotFound	The resource does not exist.
ResourceNotFound.BlueprintIdNotFound	The image ID does not exist.
ResourceNotFound.BlueprintNotFound	The specified image does not exist. Please check whether the <code>BlueprintId</code> of the image is correct.
ResourceUnavailable	The resource is unavailable.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.BlueprintCurStateInvalid	The current status of the image does not support this operation.
UnsupportedOperation.BlueprintOccupied	The image is in use, so this operation is not supported.
UnsupportedOperation.NotSupportSharedBlueprint	The shared image does not support this operation.

UnsupportedOperation.PostDestroyResourceFailed

Terminating a resource in the resource center failed.

ModifyBlueprintAttribute

最近更新时间：2023-12-04 16:31:59

1. API Description

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

This API is used to modify an image attribute.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyBlueprintAttribute.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
BlueprintId	Yes	String	Image ID, which can be obtained from the <code>BlueprintId</code> returned by the DescribeBlueprints API.
BlueprintName	No	String	New image name, which can contain up to 60 characters.
Description	No	String	New image description, which can contain up to 60 characters.

3. Output Parameters

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

4. Example

Example1 Modifying image name and description

This example shows you how to modify the name and description of an image.

Input Example

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

{
  "BlueprintId": "lhbp-1ynlfst1",
  "BlueprintName": "new-blueprint",
  "Description": "new-blueprint"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "896682bb-fb47-4fce-94d9-9a4f2abbfaac"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation.ModifyResourcesAttributeFailed	Failed to change the resource attribute. Try again later...
InternalServerError	Internal error.
InvalidParameter.MustSpecifyOneAttributeToModify	Please specify at least one attribute to modify.
InvalidParameterValue.BlueprintIdMalformed	Invalid parameter value: the image ID format is invalid.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.Toolong	The length of the parameter value exceeds the upper limit.
MissingParameter	Missing parameter.
ResourceNotFound.BlueprintIdNotFound	The image ID does not exist.
ResourceNotFound.PrivateBlueprintNotFound	The custom image does not exist.
UnsupportedOperation.BlueprintCurStateInvalid	The current status of the image does not support this operation.
UnsupportedOperation.NotSupportSharedBlueprint	The shared image does not support this operation.

Firewall APIs

CreateFirewallRules

最近更新时间：2023-12-04 16:32:01

1. API Description

Domain name for API request: `lighthouse.tencentcloudapi.com`.

This API is used to add a firewall rule on an instance.

- `FirewallVersion` is the firewall version number. Every time you update the firewall rule version, it will be automatically increased by 1 to prevent the updated rule from expiring. If it is left empty, conflicts will not be considered.

In the `FirewallRules` parameter:

- Valid values of the `Protocol` field include `TCP`, `UDP`, `ICMP`, and `ALL`.
- For the `Port` field, you can enter only `ALL`, a single port number, several port numbers separated by commas, or a port range indicated by two port numbers separated by a minus sign. If `Port` is a range, the port number on the left of the minus sign must be smaller than the one on the right. If `Protocol` is not `TCP` or `UDP`, `Port` can only be empty or `ALL`. The length of the `Port` field cannot exceed 64 characters.
- For the `CidrBlock` field, you can enter any string that conforms to the CIDR format standard. Multi-Tenant network isolation rules take precedence over private network rules in the firewall.
- For the `Action` field, you can enter only `ACCEPT` or `DROP`.
- The length of the `FirewallRuleDescription` field cannot exceed 64 characters.

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: CreateFirewallRules.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID.
FirewallRules.N	Yes	Array of FirewallRule	Firewall rule list.
FirewallVersion	No	Integer	Current firewall version number. Every time you update the firewall rule version, it will be automatically increased by 1 to prevent the rule from expiring. If it is left empty, conflicts will not be considered.

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 Adding firewall rule

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=CreateFirewallRules
&InstanceId=lhins-aglzynfg
&FirewallRules.0.Protocol=TCP
&FirewallRules.0.Port=80
&FirewallRules.1.Protocol=UDP
&FirewallRules.1.Port=22,443
&FirewallRules.2.Protocol=TCP
```

```
&FirewallRules.2.Port=8000-8080
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "667cc0c1-fa3e-4752-a36b-4bf45ec4bc7d"
  }
}
```

5. Developer Resources

SDK

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

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.FirewallRulesOperationFailed	Failed to manipulate the firewall rule.

FailedOperation.RequestError	A request error occurred.
InternalError.RequestError	There was an error in the request.
InvalidParameter.FirewallRulesDuplicated	Invalid parameter: the firewall rule is duplicated.
InvalidParameter.FirewallRulesExist	Invalid parameter: the firewall rule already exists.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.FirewallRuleDescriptionTooLong	The length of the firewall rule description exceeds the limit.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
LimitExceeded.FirewallRulesLimitExceeded	The firewall rule quota is exceeded.
ResourceNotFound.FirewallNotFound	The firewall does not exist.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.FirewallBusy	The firewall is busy.
UnsupportedOperation.FirewallVersionMismatch	The specified firewall version number does not match the current version.

DeleteFirewallRules

最近更新时间：2023-12-04 16:32:01

1. API Description

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

This API is used to delete a firewall rule of an instance.

- `FirewallVersion` is used to specify the version of the firewall to be manipulated. If the `FirewallVersion` value passed in is not equal to the current latest version of the firewall, a failure will be returned. If `FirewallVersion` is not passed in, the specified rule will be deleted directly.

In the `FirewallRules` parameter:

- Valid values of the `Protocol` field include `TCP`, `UDP`, `ICMP`, and `ALL`.
- For the `Port` field, you can enter only `ALL`, a single port number, several port numbers separated by commas, or a port range indicated by two port numbers separated by a minus sign. If `Port` is a range, the port number on the left of the minus sign must be smaller than the one on the right. If `Protocol` is not `TCP` or `UDP`, `Port` can only be empty or `ALL`. The length of the `Port` field cannot exceed 64 characters.
- For the `CidrBlock` field, you can enter any string that conforms to the CIDR format standard. Multi-Tenant network isolation rules take precedence over private network rules in the firewall.
- For the `Action` field, you can enter only `ACCEPT` or `DROP`.
- The length of the `FirewallRuleDescription` field cannot exceed 64 characters.

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

Name			
Action	Yes	String	Common Params . The value used for this API: DeleteFirewallRules.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID.
FirewallRules.N	Yes	Array of FirewallRule	Firewall rule list.
FirewallVersion	No	Integer	Current firewall version number. Every time you update the firewall rule version, it will be automatically increased by 1 to prevent the rule from expiring. If it is left empty, conflicts will not be considered.

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 firewall rule

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DeleteFirewallRules
&InstanceId=lhins-aglzynfg
&FirewallRules.0.Protocol=TCP
&FirewallRules.0.Port=80
&FirewallRules.1.Protocol=UDP
&FirewallRules.1.Port=22,443
&FirewallRules.2.Protocol=TCP
&FirewallRules.2.Port=8000-8081
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "b5182261-ab41-4801-a702-be05f227758"
  }
}
```

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.FirewallRulesOperationFailed	Failed to manipulate the firewall rule.
FailedOperation.RequestError	A request error occurred.
InternalServerError.RequestError	There was an error in the request.
InvalidParameter.FirewallRulesDuplicated	Invalid parameter: the firewall rule is duplicated.

InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.FirewallRuleDescriptionTooLong	The length of the firewall rule description exceeds the limit.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
ResourceNotFound.FirewallNotFound	The firewall does not exist.
ResourceNotFound.FirewallRulesNotFound	The firewall rule does not exist.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.FirewallBusy	The firewall is busy.
UnsupportedOperation.FirewallVersionMismatch	The specified firewall version number does not match the current version.

DescribeFirewallRules

最近更新时间：2023-12-04 16:32:01

1. API Description

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

This API is used to query the firewall rules 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: DescribeFirewallRules.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible firewall rules.
FirewallRuleSet	Array of FirewallRuleInfo	Firewall rule details list.
FirewallVersion	Integer	Firewall version number.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying all the firewall rules of instance

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeFirewallRules
&InstanceId=lhins-aglzynfg
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "FirewallRuleSet": [
      {
        "Action": "DROP",
        "AppType": "Custom",
        "CidrBlock": "0.0.0.0/0",
        "FirewallRuleDescription": "",
        "Port": "22,88",
        "Protocol": "TCP"
      },
      {
        "Action": "ACCEPT",
        "AppType": "Custom",
        "CidrBlock": "0.0.0.0/0",
        "FirewallRuleDescription": "test",
        "Port": "88",
        "Protocol": "TCP"
      }
    ]
  }
}
```

```
{
  "Action": "ACCEPT",
  "AppType": "HTTP (80)",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "test",
  "Port": "80",
  "Protocol": "TCP"
},
{
  "Action": "ACCEPT",
  "AppType": "HTTPS (443)",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "Allow web service HTTPS (443), such as Apache and Nginx",
  "Port": "443",
  "Protocol": "TCP"
}
],
"FirewallVersion": 1,
"RequestId": "afa0c876-336a-4ed6-ad01-89b3b2632207",
"TotalCount": 4
}
}
```

Example2 Querying certain firewall rules of instance

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeFirewallRules
&InstanceId=lhins-aglzynfg
&Offset=0
&Limit=1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "FirewallRuleSet": [
      {
        "Action": "DROP",
        "AppType": "Custom",
        "CidrBlock": "0.0.0.0/0",
        "FirewallRuleDescription": "",
        "Port": "22,88",
```

```
"Protocol": "TCP"
}
],
"FirewallVersion": 1,
"RequestId": "31522fb9-fef8-4190-9080-deba504c36ae",
"TotalCount": 4
}
}
```

5. Developer Resources

SDK

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

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

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.

ResourceNotFound.FirewallNotFound	The firewall does not exist.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnauthorizedOperation.TokenInvalid	

DescribeFirewallRulesTemplate

最近更新时间：2023-12-04 16:32:00

1. API Description

Domain name for API request: `lighthouse.tencentcloudapi.com`.

This API is used to query a firewall rule template.

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: DescribeFirewallRulesTemplate.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible firewall rules.
FirewallRuleSet	Array of	Firewall rule details list.

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

4. Example

Example1 Querying a firewall rule template

Input Example

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

Output Example

```
{
  "Response": {
    "FirewallRuleSet": [
      {
        "Action": "ACCEPT",
        "AppType": "Windows login (3389)",
        "CidrBlock": "0.0.0.0/0",
        "FirewallRuleDescription": "Allow Windows remote login",
        "Port": "3389",
        "Protocol": "TCP"
      },
      {
        "Action": "ACCEPT",
        "AppType": "Linux login (22)",
        "CidrBlock": "0.0.0.0/0",
        "FirewallRuleDescription": "Allow Linux SSH login",
        "Port": "22",
        "Protocol": "TCP"
      },
      {
        "Action": "ACCEPT",
        "AppType": "HTTP (80)",
        "CidrBlock": "0.0.0.0/0",
        "FirewallRuleDescription": "Allow web service HTTP (80), such as Apache and Nginx",
        "Port": "80",
        "Protocol": "TCP"
      },
    ]
  }
}
```

```
{
  "Action": "ACCEPT",
  "AppType": "HTTPS(443)",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "Allow web service HTTPS (443), such as Apache and Nginx",
  "Port": "443",
  "Protocol": "TCP"
},
{
  "Action": "ACCEPT",
  "AppType": "MySQL(3306)",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "Allow MySQL service (3306)",
  "Port": "3306",
  "Protocol": "TCP"
},
{
  "Action": "ACCEPT",
  "AppType": "SQL Server(1433)",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "Allow SQL Server service (1433)",
  "Port": "1433",
  "Protocol": "TCP"
},
{
  "Action": "ACCEPT",
  "AppType": "All TCP ports",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "Allow all TCP ports",
  "Port": "1-65535",
  "Protocol": "TCP"
},
{
  "Action": "ACCEPT",
  "AppType": "All UDP ports",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "All all UDP ports",
  "Port": "1-65535",
  "Protocol": "UDP"
},
{
  "Action": "ACCEPT",
  "AppType": "Ping-ICMP",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "Allow Ping",
  "Port": "ALL",
```

```

"Protocol": "ICMP"
},
{
  "Action": "ACCEPT",
  "AppType": "ALL",
  "CidrBlock": "0.0.0.0/0",
  "FirewallRuleDescription": "Allow all TCP, UDP, ICMP (Ping), and GRE ports",
  "Port": "ALL",
  "Protocol": "ALL"
}
],
"RequestId": "b9fdb7cc-8afa-4fae-9062-73e41d06f7d3",
"TotalCount": 10
}
}
    
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

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

FailedOperation	Operation failed.
UnauthorizedOperation.NoPermission	No permission

ModifyFirewallRuleDescription

最近更新时间：2023-12-04 16:32:00

1. API Description

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

This API is used to modify the description of a single firewall rule.

- `FirewallVersion` is used to specify the version of the firewall to be manipulated. If the `FirewallVersion` value passed in is not equal to the current latest version of the firewall, a failure will be returned. If `FirewallVersion` is not passed in, the description of the specified rule will be modified directly.

In the `FirewallRule` parameter:

- Valid values of the `Protocol` field include `TCP`, `UDP`, `ICMP`, and `ALL`.
- For the `Port` field, you can enter only `ALL`, a single port number, several port numbers separated by commas, or a port range indicated by two port numbers separated by a minus sign. If `Port` is a range, the port number on the left of the minus sign must be smaller than the one on the right. If `Protocol` is not `TCP` or `UDP`, `Port` can only be empty or `ALL`. The length of the `Port` field cannot exceed 64 characters.
- For the `CidrBlock` field, you can enter any string that conforms to the CIDR format standard. Multi-Tenant network isolation rules take precedence over private network rules in the firewall.
- For the `Action` field, you can enter only `ACCEPT` or `DROP`.
- The length of the `FirewallRuleDescription` field cannot exceed 64 characters.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

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

Name			
Action	Yes	String	Common Params . The value used for this API: ModifyFirewallRuleDescription.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID.
FirewallRule	Yes	FirewallRule	Firewall rule.
FirewallVersion	No	Integer	Current firewall version number. Every time you update the firewall rule version, it will be automatically increased by 1 to prevent the rule from expiring. If it is left empty, conflicts will not be considered.

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 firewall rule description

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ModifyFirewallRuleDescription
&InstanceId=lhins-aglzynfg
&FirewallRule.Protocol=TCP
&FirewallRule.Port=80
&FirewallRule.FirewallRuleDescription='test'
&<Common request parameters>
```

Output Example


```

{
  "Response": {
    "RequestId": "f9c1597d-90ef-4493-b6b4-bbc55f194a76"
  }
}
    
```

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.FirewallRuleDescriptionTooLong	The length of the firewall rule description exceeds the limit.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
ResourceNotFound.FirewallNotFound	The firewall does not exist.
ResourceNotFound.FirewallRulesNotFound	The firewall rule does not exist.

ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.FirewallBusy	The firewall is busy.
UnsupportedOperation.FirewallVersionMismatch	The specified firewall version number does not match the current version.

ModifyFirewallRules

最近更新时间：2023-12-04 16:32:00

1. API Description

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

This API is used to reset the firewall rules of an instance.

This API deletes all firewall rules of the current instance first and then adds new rules.

- `FirewallVersion` is used to specify the version of the firewall to be manipulated. If the `FirewallVersion` value passed in is not equal to the current latest version of the firewall, a failure will be returned. If `FirewallVersion` is not passed in, the specified rule will be reset directly.

In the `FirewallRules` parameter:

- Valid values of the `Protocol` field include `TCP`, `UDP`, `ICMP`, and `ALL`.
- For the `Port` field, you can enter only `ALL`, a single port number, several port numbers separated by commas, or a port range indicated by two port numbers separated by a minus sign. If `Port` is a range, the port number on the left of the minus sign must be smaller than the one on the right. If `Protocol` is not `TCP` or `UDP`, `Port` can only be empty or `ALL`. The length of the `Port` field cannot exceed 64 characters.
- For the `CidrBlock` field, you can enter any string that conforms to the CIDR format standard. Multi-Tenant network isolation rules take precedence over private network rules in the firewall.
- For the `Action` field, you can enter only `ACCEPT` or `DROP`.
- The length of the `FirewallRuleDescription` field cannot exceed 64 characters.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyFirewallRules.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID.
FirewallRules.N	Yes	Array of FirewallRule	Firewall rule list.
FirewallVersion	No	Integer	Current firewall version number. Every time you update the firewall rule version, it will be automatically increased by 1 to prevent the rule from expiring. If it is left empty, conflicts will not be considered.

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 firewall rules

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=ModifyFirewallRules
&InstanceId=lhins-aglzynfg
&FirewallRules.0.Protocol=TCP
&FirewallRules.0.Port=80
&FirewallRules.1.Protocol=UDP
&FirewallRules.1.Port=22,443
&FirewallRules.2.Protocol=TCP
```

```
&FirewallRules.2.Port=8000-8081
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "f927b1f4-5734-4ada-ab76-6b2bb0614c6d"
  }
}
```

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](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.FirewallRulesOperationFailed	Failed to manipulate the firewall rule.

FailedOperation.RequestError	A request error occurred.
InternalServerError.RequestError	There was an error in the request.
InvalidParameter.FirewallRulesDuplicated	Invalid parameter: the firewall rule is duplicated.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.FirewallRuleDescriptionTooLong	The length of the firewall rule description exceeds the limit.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parameteric value: the number of parameter values exceeds the upper limit.
ResourceNotFound.FirewallNotFound	The firewall does not exist.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission
UnsupportedOperation.FirewallBusy	The firewall is busy.
UnsupportedOperation.FirewallVersionMismatch	The specified firewall version number does not match the current version.

Scene APIs

DescribeAllScenes

最近更新时间：2023-12-04 16:31:52

1. API Description

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

This API is used to query the list of scenes in all regions.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAllScenes.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
Scenelds.N	No	Array of String	List of scene IDs
Offset	No	Integer	Offset. Default value: 0
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100

3. Output Parameters

Parameter Name	Type	Description
SceneInfoSet	Array of SceneInfo	List of scenes
TotalCount	Integer	Total count of scenes
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying information of scenes in all regions

Input Example

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

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

Output Example

```
{
  "Response": {
    "RequestId": "22cef196-4013-493e-8acb-33a2cb629869",
    "TotalCount": 3,
    "SceneInfoSet": [
      {
        "SceneId": "lhsc-1ubg0exh",
        "DisplayName": "Test modify1",
        "Description": "Test test1"
      },
      {
```



```
"SceneId": "lhsc-h69tuf89",
"DisplayName": "Test",
"Description": "Test test"
},
{
"SceneId": "lhsc-1bbbtj87",
"DisplayName": "31",
"Description": "31"
}
]
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.

InternalError	Internal error.
---------------	-----------------

DescribeScenes

最近更新时间：2023-12-04 16:31:52

1. API Description

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

This API is used to query the list of scenes.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeScenes.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
Scenelds.N	No	Array of String	List of scene IDs
Offset	No	Integer	Offset. Default value: 0
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100

3. Output Parameters

Parameter Name	Type	Description
SceneSet	Array of Scene	List of scenes
TotalCount	Integer	Total number of scenes
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying scenes

Input Example

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

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

Output Example

```
{
  "Response": {
    "SceneSet": [
      {
        "SceneId": "lhsc-abcd1235",
        "DisplayName": "Test1",
        "Description": "Test test1",
      }
    ],
    "TotalCount": 1,
    "RequestId": "4836c744-4de2-44c0-ba5c-096ccf8c923f"
  }
}
```

5. Developer Resources

SDK

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

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

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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	Error with CAM signature/authentication.
InternalError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InvalidSceneldMalformed	Invalid scene ID
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
MissingParameter	Missing parameter.

Package APIs

DescribeBundleDiscount

最近更新时间：2023-12-04 16:31:53

1. API Description

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

This API is used to query the discount information of a package.

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: DescribeBundleDiscount.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
BundleId	Yes	String	Package ID.

3. Output Parameters

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

Currency	String	Currency: CNY, USD.
DiscountDetail	Array of DiscountDetail	Discount tier details. The information of each tier includes the duration, discounted quantity, total price, discounted price, and discount details (user discount, official website discount, or final discount).
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying package discount (succeeded)

This example shows you how to query package discount.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeBundleDiscount
&BundleId=bundle2022_gen_01
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Currency": "USD",
    "DiscountDetail": [
      {
        "TimeSpan": 1,
        "TimeUnit": "m",
        "Discount": 100,
        "PolicyDetail": {
          "UserDiscount": 100,
          "CommonDiscount": 100,
          "ActivityDiscount": null,
          "FinalDiscount": 100,
          "DiscountType": null
        },
        "TotalCost": 50,
        "RealTotalCost": 50
      },
      {
        "TimeSpan": 2,
        "TimeUnit": "m",
```

```
"Discount": 100,
"PolicyDetail": {
  "UserDiscount": 100,
  "CommonDiscount": 100,
  "ActivityDiscount": null,
  "FinalDiscount": 100,
  "DiscountType": null
},
"TotalCost": 100,
"RealTotalCost": 100
},
{
  "TimeSpan": 3,
  "TimeUnit": "m",
  "Discount": 100,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 100,
    "ActivityDiscount": null,
    "FinalDiscount": 100,
    "DiscountType": null
  },
  "TotalCost": 150,
  "RealTotalCost": 150
},
{
  "TimeSpan": 4,
  "TimeUnit": "m",
  "Discount": 100,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 100,
    "ActivityDiscount": null,
    "FinalDiscount": 100,
    "DiscountType": null
  },
  "TotalCost": 200,
  "RealTotalCost": 200
},
{
  "TimeSpan": 5,
  "TimeUnit": "m",
  "Discount": 100,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 100,
    "ActivityDiscount": null,
```



```
"FinalDiscount": 100,
"DiscountType": null
},
"TotalCost": 250,
"RealTotalCost": 250
},
{
"TimeSpan": 6,
"TimeUnit": "m",
"Discount": 88,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 88,
"ActivityDiscount": 100,
"FinalDiscount": 88,
"DiscountType": "common"
},
"TotalCost": 300,
"RealTotalCost": 264
},
{
"TimeSpan": 7,
"TimeUnit": "m",
"Discount": 88,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 88,
"ActivityDiscount": 100,
"FinalDiscount": 88,
"DiscountType": "common"
},
"TotalCost": 350,
"RealTotalCost": 308
},
{
"TimeSpan": 8,
"TimeUnit": "m",
"Discount": 88,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 88,
"ActivityDiscount": 100,
"FinalDiscount": 88,
"DiscountType": "common"
},
"TotalCost": 400,
"RealTotalCost": 352
```

```
},
{
  "TimeSpan": 9,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 450,
  "RealTotalCost": 396
},
{
  "TimeSpan": 10,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 500,
  "RealTotalCost": 440
},
{
  "TimeSpan": 11,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 550,
  "RealTotalCost": 484
},
{
  "TimeSpan": 12,
  "TimeUnit": "m",
  "Discount": 85,
```

```
"PolicyDetail": {
  "UserDiscount": 100,
  "CommonDiscount": 85,
  "ActivityDiscount": 100,
  "FinalDiscount": 85,
  "DiscountType": "common"
},
"TotalCost": 600,
"RealTotalCost": 510
},
{
  "TimeSpan": 24,
  "TimeUnit": "m",
  "Discount": 85,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 85,
    "ActivityDiscount": 100,
    "FinalDiscount": 85,
    "DiscountType": "common"
  },
  "TotalCost": 1200,
  "RealTotalCost": 1020
},
{
  "TimeSpan": 36,
  "TimeUnit": "m",
  "Discount": 85,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 85,
    "ActivityDiscount": 100,
    "FinalDiscount": 85,
    "DiscountType": "common"
  },
  "TotalCost": 1800,
  "RealTotalCost": 1530
},
{
  "TimeSpan": 48,
  "TimeUnit": "m",
  "Discount": 85,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 85,
    "ActivityDiscount": 100,
    "FinalDiscount": 85,
```

```
"DiscountType": "common"
},
"TotalCost": 2400,
"RealTotalCost": 2040
},
{
"TimeSpan": 60,
"TimeUnit": "m",
"Discount": 85,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 85,
"ActivityDiscount": 100,
"FinalDiscount": 85,
"DiscountType": "common"
},
"TotalCost": 3000,
"RealTotalCost": 2550
}
],
"RequestId": "859918e4-78c9-4aa5-a2fc-c2e00fea4d33"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeBundleDiscountFailed	
FailedOperation.RequestError	A request error occurred.
FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalError.InvalidCommandNotFound	The command is not found.
InternalError.RequestError	There was an error in the request.
InternalError.TradeGetPriceFailed	Failed to get the price.
InvalidParameter.BundleIdNotFound	Undefined service package ID.
ResourceUnavailable.BundleUnavailable	The package is not available.

DescribeBundles

最近更新时间：2023-12-04 16:31:53

1. API Description

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

This API is used to query the information of a package.

A maximum of 5 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeBundles.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
Bundles.N	No	Array of String	Package ID list.
Offset	No	Integer	Offset. Default value: 0. For more information on <code>Offset</code> , please see the relevant section in Overview .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , please see the relevant section in the API Overview .
Filters.N	No	Array	Filter list.

		of Filter	<ul style="list-style-type: none"> • <code>bundle-id</code> Filter by the bundle ID. Type: String Required: No • <code>support-platform-type</code> • Filter by the system type. Values: <code>LINUX_UNIX</code> (Linux/Unix), <code>WINDOWS</code> (Windows). Type: String Required: No • <code>bundle-type</code> Filter by the bundle type. Values: <code>GENERAL_BUNDLE</code> (General bundle), <code>STORAGE_BUNDLE</code> (Storage bundle), <code>ENTERPRISE_BUNDLE</code> (Enterprise bundle), <code>EXCLUSIVE_BUNDLE</code> (Dedicated bundle), <code>BEFAST_BUNDLE</code> (BeFast bundle), <code>STARTER_BUNDLE</code> (Beginner bundle); <code>CAREFREE_BUNDLE</code> (Carefree bundle); Type: String Required: No • <code>bundle-state</code> Filter by the bundle status. Values: <code>ONLINE</code> , <code>OFFLINE</code> Type: String Required: No <p>Each request can contain up to 10 <code>Filters</code> and 5 <code>Filter.Values</code> . You cannot specify both <code>BundleIds</code> and <code>Filters</code> at the same time.</p>
Zones.N	No	Array of String	AZ list, which contains all AZs by default.

3. Output Parameters

Parameter Name	Type	Description
BundleSet	Array of Bundle	List of package details.
TotalCount	Integer	Total number of eligible packages, which is used for pagination.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying bundles

This example shows you how to query the information of specific bundles.

Input Example

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

{
  "BundleIds": [
    "bundle_ntp_small11_500",
    "bundle_bw_small11_1"
  ]
}
```

Output Example

```
{
  "Response": {
    "BundleSet": [
      {
        "BundleId": "bundle2022_gen_02",
        "CPU": 2,
        "Memory": 2,
        "SystemDiskType": "CLOUD_SSD",
        "SystemDiskSize": 50,
        "InternetMaxBandwidthOut": 5,
        "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
        "MonthlyTraffic": 500,
        "Price": {
          "InstancePrice": {
            "Currency": "USD",
            "OriginalBundlePrice": 60.0,
            "OriginalPrice": 60.0,
            "Discount": 66.229933,
            "DiscountPrice": 39.74
          }
        },
        "SupportLinuxUnixPlatform": true,

```



```

"SupportWindowsPlatform": true,
"BundleType": "GENERAL_BUNDLE",
"BundleTypeDescription": "Standard",
"BundleSalesState": "AVAILABLE",
"BundleDisplayLabel": "NORMAL"
}
],
"TotalCount": 1,
"RequestId": "b2563b1d-e93f-4e05-9c6f-096e0c403add"
}
}
    
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.DescribeBundlesFailed	

FailedOperation.RequestError	A request error occurred.
FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalError.InvalidCommandNotFound	The command is not found.
InternalError.RequestError	There was an error in the request.
InternalError.TradeGetPriceFailed	Failed to get the price.
InvalidParameter.BundleIdNotFound	Undefined service package ID.
InvalidParameter.Conflict	Parameters conflicted.
InvalidParameter.FilterValueLimitExceeded	Invalid parameter: the number of <code>Values</code> in the <code>Filter</code> parameter exceeds the allowed maximum number.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidKey	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidNameNotStr	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is not a string.
InvalidParameter.InvalidFilterNotDict	Invalid parameter: the <code>Filter</code> parameter is not a dictionary.
InvalidParameter.InvalidFilterNotSupportedName	Invalid parameter: there are unsupported <code>Name</code> values in the <code>Filter</code> parameter.
InvalidParameter.ParameterConflict	Invalid parameter: the parameters conflict.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InvalidBlueprintPlatformType	The type of the image OS is invalid.
InvalidParameterValue.InvalidConsoleDisplayTypes	The console display type is invalid.
InvalidParameterValue.InvalidZone	Invalid <code>Zone</code> value.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.

InvalidParameterValue.ZoneInvalid	Invalid AZ.
-----------------------------------	-------------

Quota APIs

DescribeGeneralResourceQuotas

最近更新时间：2023-12-04 16:31:53

1. API Description

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

This API is used to query the quota information of general resources.

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: DescribeGeneralResourceQuotas.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
ResourceNames.N	Yes	Array of String	Resource name list. Values: <ul style="list-style-type: none"> - GENERAL_BUNDLE_INSTANCE : General bundle - STORAGE_BUNDLE_INSTANCE : Storage bundle - ENTERPRISE_BUNDLE_INSTANCE : Enterprise bundle - EXCLUSIVE_BUNDLE_INSTANCE : Dedicated bundle - BEFAST_BUNDLE_INSTANCE : BeFast bundle - USER_KEY_PAIR : Key pair - SNAPSHOT : Snapshot - BLUEPRINT : Custom image

- FREE_BLUEPRINT : Free custom image
- DATA_DISK : Data disk
- FIREWALL_RULE : Firewall rules

3. Output Parameters

Parameter Name	Type	Description
GeneralResourceQuotaSet	Array of GeneralResourceQuota	List of general resource quota details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the quota information of general resources

This example shows you how to query the resource quota information of an instance.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=DescribeGeneralResourceQuotas
&ResourceNames.0=GENERAL_BUNDLE_INSTANCE
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "GeneralResourceQuotaSet": [
      {
        "ResourceName": "GENERAL_BUNDLE_INSTANCE",
        "ResourceQuotaAvailable": 9,
        "ResourceQuotaTotal": 10
      }
    ],
    "RequestId": "4dd1a440-39ca-49fb-9f2f-c995db3ae20b"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InvalidParameterValue.InvalidResourceQuotaResourceName	Incorrect quota resource name.
UnauthorizedOperation.NoPermission	No permission

Region APIs

DescribeRegions

最近更新时间：2023-12-04 16:31:52

1. API Description

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

This API is used to query the information of 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: DescribeRegions.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of regions.
RegionSet	Array of	Region information list.

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

4. Example

Example1 Querying region list

Input Example

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

Output Example

```
{
  "Response": {
    "TotalCount": 4,
    "RegionSet": [
      {
        "Region": "ap-beijing",
        "RegionName": "Beijing",
        "RegionState": "AVAILABLE",
        "IsChinaMainland": true
      },
      {
        "Region": "ap-guangzhou",
        "RegionName": "Guangzhou",
        "RegionState": "AVAILABLE",
        "IsChinaMainland": true
      },
      {
        "Region": "ap-shanghai",
        "RegionName": "Shanghai",
        "RegionState": "AVAILABLE",
        "IsChinaMainland": true
      },
      {
        "Region": "ap-hongkong",
        "RegionName": "Hong Kong (China)",
        "RegionState": "AVAILABLE",
        "IsChinaMainland": false
      }
    ]
  }
}
```



```
],  
  "RequestId": "52c5ec46-30ca-47b9-8b72-f696c6cb65ea"  
}  
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.

DescribeZones

最近更新时间：2023-12-04 16:31:52

1. API Description

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

This API is used to query the list of AZs in a region.

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

We recommend you to use API Explorer

[Try it](#)

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the 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: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
OrderField	No	String	Sorting field. Valid values: <ul style="list-style-type: none"><code>ZONE</code> : Sort by the availability zone.<code>INSTANCE_DISPLAY_LABEL</code> : Sort by visibility labels (<code>HIDDEN</code> , <code>NORMAL</code> and <code>SELECTED</code>). Default: ['HIDDEN', 'NORMAL', 'SELECTED']. The default value is <code>ZONE</code> .
Order	No	String	Specifies how availability zones are listed. Valid values: <ul style="list-style-type: none"><code>ASC</code>: Ascending sort.<code>DESC</code>: Descending sort. The default value is <code>ASC</code> .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of AZs
ZoneInfoSet	Array of ZoneInfo	List of AZ details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying AZs

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "ZoneInfoSet": [
      {
        "Zone": "ap-guangzhou-2",
        "ZoneName": "Guangzhou Zone 2",
        "InstanceDisplayLabel": "NORMAL"
      },
      {
        "Zone": "ap-guangzhou-3",
        "ZoneName": "Guangzhou Zone 3",
        "InstanceDisplayLabel": "NORMAL"
      },
      {
```

```
"Zone": "ap-guangzhou-4",
"ZoneName": "Guangzhou Zone 4",
"InstanceDisplayLabel": "NORMAL"
}
],
"TotalCount": 3,
"RequestId": "5e1bf334-e530-4c26-ab92-d911ab148d3a"
}
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError.InvalidCommandNotFound	The command is not found.
InvalidParameterValue	Incorrect parameter value.

UnknownParameter

Unknown parameter error.

Other APIs

InquirePriceCreateInstances

最近更新时间：2023-12-04 16:31:53

1. API Description

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

This API is used to query the price of a created 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: InquirePriceCreateInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
BundleId	Yes	String	Instance package ID.
InstanceChargePrepaid	Yes	InstanceChargePrepaid	Parameter setting for prepaid mode. This parameter can specify the purchase period, whether to enable auto-renewal, and other attributes of the monthly subscribed instances.

InstanceCount	No	Integer	Number of instances to be created. Default value: 1.
BlueprintId	No	String	Application image ID, which is required if a paid application image is used and can be obtained from the <code>BlueprintId</code> returned by the DescribeBlueprints API.

3. Output Parameters

Parameter Name	Type	Description
Price	Price	Price query 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 price of created instances (with success returned)

This example shows you how to query the price of created instances, with success returned.

Input Example

```
https://lighthouse.tencentcloudapi.com/?Action=InquirePriceCreateInstances
&BundleId=bundle_ntp_small11_500
&InstanceChargePrepaid.RenewFlag=NOTIFY_AND_AUTO_RENEW
&InstanceChargePrepaid.Period=1
&InstanceCount=2
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "OriginalBundlePrice": 60.0,
        "OriginalPrice": 1440.0,
        "Discount": 100,
```

```

"DiscountPrice": 1440.0
}
},
"RequestId": "96d188f2-caf0-4d63-ba6f-474d22a8b344"
}
}
    
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.RequestError	A request error occurred.
FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalServerError.InvalidCommandNotFound	The command is not found.
InternalServerError.RequestError	There was an error in the request.

InternalError.TradeGetPriceFailed	Failed to get the price.
InvalidParameter.BundleIdNotFound	Undefined service package ID.
InvalidParameterValue.BlueprintIdMalformed	Invalid parameter value: the image ID format is invalid.
InvalidParameterValue.InvalidBlueprintId	The image ID is invalid.
ResourceNotFound.BlueprintIdNotFound	The image ID does not exist.
ResourceUnavailable.BundleUnavailable	The package is not available.
UnauthorizedOperation.NoPermission	No permission

InquirePriceRenewInstances

最近更新时间：2023-12-04 16:31:53

1. API Description

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

This API is used to query the price of renewing one or more 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: InquirePriceRenewInstances.
Version	Yes	String	Common Params . The value used for this API: 2020-03-24.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	IDs of the instances to be renewed. Each request can contain up to 50 instances at a time. You can get an instance ID from the <code>InstanceId</code> returned by the DescribeInstances API.
InstanceChargePrepaid	Yes	InstanceChargePrepaid	Parameter setting for prepaid mode. This parameter can specify the renewal period, whether to enable auto-renewal,

			and other attributes of the monthly subscribed instances.
RenewDataDisk	No	Boolean	Whether to renew the data disk. Default: <code>false</code> .
AlignInstanceExpiredTime	No	Boolean	Whether to align the data disk expiration with the instance expiration time. Default: <code>false</code> .

3. Output Parameters

Parameter Name	Type	Description
Price	Price	Price information. It defaults to the price information of the first instance in the list.
DataDiskPriceSet	Array of DataDiskPrice	List of data disk price information. Note: This field may return null, indicating that no valid values can be obtained.
InstancePriceDetailSet	Array of InstancePriceDetail	Price list of the instances to be renewed. Note: This field may return <code>null</code> , indicating that no valid value was found.
TotalPrice	TotalPrice	Total price
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 renewing instances (succeeded)

This example shows you how to query the price of renewing instances.

Input Example

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

```
{
  "InstanceChargePrepaid": {
    "RenewFlag": "NOTIFY_AND_AUTO_RENEW",
    "Period": "1"
  },
  "InstanceIds": [
    "lhins-iqrj7783"
  ]
}
```

Output Example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "Currency": "USD",
        "OriginalBundlePrice": 50,
        "OriginalPrice": 50,
        "Discount": 40,
        "DiscountPrice": 20
      }
    },
    "DataDiskPriceSet": [],
    "InstancePriceDetailSet": [
      {
        "InstanceId": "lhins-iqrj7783",
        "InstancePrice": {
          "Currency": "USD",
          "OriginalBundlePrice": 50,
          "OriginalPrice": 50,
          "Discount": 40,
          "DiscountPrice": 20
        },
        "DiscountDetail": [
          {
            "TimeSpan": 1,
            "TimeUnit": "m",
            "Discount": 40,
            "PolicyDetail": {
              "UserDiscount": 100,
              "CommonDiscount": 100,
              "ActivityDiscount": 40,
              "FinalDiscount": 40,
              "DiscountType": "activity"
            }
          }
        ]
      }
    ]
  }
}
```

```
},
"TotalCost": 50,
"RealTotalCost": 20
},
{
"TimeSpan": 2,
"TimeUnit": "m",
"Discount": 30,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 100,
"ActivityDiscount": 30,
"FinalDiscount": 30,
"DiscountType": "activity"
},
"TotalCost": 100,
"RealTotalCost": 30
},
{
"TimeSpan": 3,
"TimeUnit": "m",
"Discount": 25,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 100,
"ActivityDiscount": 25,
"FinalDiscount": 25,
"DiscountType": "activity"
},
"TotalCost": 150,
"RealTotalCost": 37.5
},
{
"TimeSpan": 4,
"TimeUnit": "m",
"Discount": 100,
"PolicyDetail": {
"UserDiscount": 100,
"CommonDiscount": 100,
"ActivityDiscount": null,
"FinalDiscount": 100,
"DiscountType": null
},
"TotalCost": 200,
"RealTotalCost": 200
},
{
```

```
"TimeSpan": 5,
"TimeUnit": "m",
"Discount": 100,
"PolicyDetail": {
  "UserDiscount": 100,
  "CommonDiscount": 100,
  "ActivityDiscount": null,
  "FinalDiscount": 100,
  "DiscountType": null
},
"TotalCost": 250,
"RealTotalCost": 250
},
{
  "TimeSpan": 6,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 300,
  "RealTotalCost": 264
},
{
  "TimeSpan": 7,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
    "CommonDiscount": 88,
    "ActivityDiscount": 100,
    "FinalDiscount": 88,
    "DiscountType": "common"
  },
  "TotalCost": 350,
  "RealTotalCost": 308
},
{
  "TimeSpan": 8,
  "TimeUnit": "m",
  "Discount": 88,
  "PolicyDetail": {
    "UserDiscount": 100,
```

```
"CommonDiscount": 88,  
"ActivityDiscount": 100,  
"FinalDiscount": 88,  
"DiscountType": "common"  
},  
"TotalCost": 400,  
"RealTotalCost": 352  
},  
{  
"TimeSpan": 9,  
"TimeUnit": "m",  
"Discount": 88,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 88,  
"ActivityDiscount": 100,  
"FinalDiscount": 88,  
"DiscountType": "common"  
},  
"TotalCost": 450,  
"RealTotalCost": 396  
},  
{  
"TimeSpan": 10,  
"TimeUnit": "m",  
"Discount": 88,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 88,  
"ActivityDiscount": 100,  
"FinalDiscount": 88,  
"DiscountType": "common"  
},  
"TotalCost": 500,  
"RealTotalCost": 440  
},  
{  
"TimeSpan": 11,  
"TimeUnit": "m",  
"Discount": 88,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 88,  
"ActivityDiscount": 100,  
"FinalDiscount": 88,  
"DiscountType": "common"  
},
```

```
"TotalCost": 550,  
"RealTotalCost": 484  
},  
{  
"TimeSpan": 12,  
"TimeUnit": "m",  
"Discount": 85,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 85,  
"ActivityDiscount": 100,  
"FinalDiscount": 85,  
"DiscountType": "common"  
},  
"TotalCost": 600,  
"RealTotalCost": 510  
},  
{  
"TimeSpan": 24,  
"TimeUnit": "m",  
"Discount": 85,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 85,  
"ActivityDiscount": 100,  
"FinalDiscount": 85,  
"DiscountType": "common"  
},  
"TotalCost": 1200,  
"RealTotalCost": 1020  
},  
{  
"TimeSpan": 36,  
"TimeUnit": "m",  
"Discount": 85,  
"PolicyDetail": {  
"UserDiscount": 100,  
"CommonDiscount": 85,  
"ActivityDiscount": 100,  
"FinalDiscount": 85,  
"DiscountType": "common"  
},  
"TotalCost": 1800,  
"RealTotalCost": 1530  
}  
]  
}
```



```

    ],
    "TotalPrice": {
      "OriginalPrice": 50,
      "DiscountPrice": 20
    },
    "RequestId": "22e25e9c-a1d2-4a82-aca0-6fd9e18f3df2"
  }
}
    
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.TradeGetPriceFailed	Failed to query the price.
InternalServerError.RequestError	There was an error in the request.
InternalServerError.TradeGetPriceFailed	Failed to get the price.

InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values exceeds the upper limit.
ResourceNotFound.InstanceDataDiskNotFound	There are no data disks mounted to the instance.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
UnauthorizedOperation.NoPermission	No permission

Data Types

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AttachDetail

Attachment information

Used by actions: DescribeInstancesDiskNum.

Name	Type	Description
InstanceId	String	Instance ID
AttachedDiskCount	Integer	Number of elastic cloud disks attached to the instance
MaxAttachCount	Integer	Upper limit of attached elastic cloud disks

AutoMountConfiguration

Automatically attach and initialize the data disk.

Used by actions: CreateDisks.

Name	Type	Required	Description
InstanceId	String	Yes	ID of the instance to be mounted to. The instance must be Running .
MountPoint	String	No	The mount point within the instance. Only Linux instances are supported. If it's not specified, the default mount point is "/data/disk".
FileSystemType	String	No	The file system type. Values: <code>ext4</code> (default) and <code>xfs</code> . Only Linux instances are supported.

Blueprint

Image information.

Used by actions: DescribeBlueprintInstances, DescribeBlueprints, DescribeResetInstanceBlueprints.

--	--	--

Name	Type	Description
BlueprintId	String	Image ID, which is the unique identifier of <code>Blueprint</code> .
DisplayTitle	String	Image title to be displayed.
DisplayVersion	String	Image version to be displayed.
Description	String	Image description information. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
OsName	String	OS name.
Platform	String	OS type.
PlatformType	String	OS type, such as LINUX_UNIX and WINDOWS.
BlueprintType	String	Image type, such as APP_OS, PURE_OS, and PRIVATE.
ImageUrl	String	Image picture URL.
RequiredSystemDiskSize	Integer	System disk size required by image in GB.
BlueprintState	String	Image status.
CreatedTime	Timestamp ISO8601	Creation time according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: this field may return null, indicating that no valid values can be obtained.
BlueprintName	String	Image name.
SupportAutomationTools	Boolean	Whether the image supports automation tools.
RequiredMemorySize	Integer	Memory size required by image in GB.
ImageId	String	ID of the Lighthouse image shared from a CVM image Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
CommunityUrl	String	URL of official website of the open-source project
GuideUrl	String	Guide documentation URL
SceneldSet	Array of String	Array of IDs of scenes associated with an image Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

DockerVersion	String	Docker version. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
---------------	--------	---

BlueprintInstance

Image instance information.

Used by actions: DescribeBlueprintInstances.

Name	Type	Description
Blueprint	Blueprint	Image information.
SoftwareSet	Array of Software	Software list.
InstanceId	String	Instance ID.

BlueprintPrice

BlueprintPrice Custom image price parameter.

Used by actions: InquirePriceCreateBlueprint.

Name	Type	Description
OriginalBlueprintPrice	Float	Original image unit price in USD.
OriginalPrice	Float	Original image total price in USD.
Discount	Integer	Discount.
DiscountPrice	Float	Discounted image total price in USD.

Bundle

Package information.

Used by actions: DescribeBundles, DescribeModifyInstanceBundles.

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

BundleId	String	Package ID.
Memory	Integer	Memory size in GB.
SystemDiskType	String	System disk type. Values: <ul style="list-style-type: none"> CLOUD_SSD : SSD cloud disks CLOUD_PREMIUM : Premium cloud disks
SystemDiskSize	Integer	System disk size in GB.
MonthlyTraffic	Integer	Monthly network traffic in GB.
SupportLinuxUnixPlatform	Boolean	Whether Linux/Unix is supported.
SupportWindowsPlatform	Boolean	Whether Windows is supported.
Price	Price	Current package unit price information.
CPU	Integer	Number of CPU cores.
InternetMaxBandwidthOut	Integer	Peak bandwidth in Mbps.
InternetChargeType	String	Network billing mode.
BundleSalesState	String	Package sale status. Valid values: AVAILABLE, SOLD_OUT
BundleType	String	Bundle type. Valid values: <ul style="list-style-type: none"> STARTER_BUNDLE: Starter bundle GENERAL_BUNDLE: General bundle ENTERPRISE_BUNDLE: Enterprise bundle STORAGE_BUNDLE: Storage-optimized bundle EXCLUSIVE_BUNDLE: Dedicated bundle HK_EXCLUSIVE_BUNDLE: Hong Kong-dedicated bundle CAREFREE_BUNDLE: Lighthouse Care bundle BEFAST_BUNDLE: BeFast bundle
BundleTypeDescription	String	Bundle type description Note: This parameter may return null, indicating that no valid values can be obtained.
BundleDisplayLabel	String	Package tag. Valid values: "ACTIVITY": promotional package "NORMAL": regular package "CAREFREE": carefree package

CcnAttachedInstance

List of instances associated with the CCN instance.

Used by actions: DescribeCcnAttachedInstances.

Name	Type	Description
CcnId	String	CCN instance ID.
CidrBlock	Array of String	CIDR block of associated instance.
State	String	Associated instance status: <ul style="list-style-type: none"> • PENDING: applying • ACTIVE: connected • EXPIRED: expired • REJECTED: rejected • DELETED: deleted • FAILED: failed (it will be asynchronously unassociated after 2 hours) • ATTACHING: associating • DETACHING: unassociating • DETACHFAILED: failed to unassociate (it will be asynchronously unassociated after 2 hours)
AttachedTime	Timestamp	Association time. Note: this field may return null, indicating that no valid values can be obtained.
Description	String	Remarks

ContainerEnv

Container environment variable

Used by actions: CreateInstances.

Name	Type	Required	Description
Key	String	Yes	Environment variable key
Value	String	Yes	Environment variable value

DataDiskPrice

Data disk price

Used by actions: InquirePriceRenewInstances.

Name	Type	Description
DiskId	String	Cloud disk ID.
OriginalDiskPrice	Float	Cloud disk unit price.
OriginalPrice	Float	Total price of cloud disk
Discount	Float	Discount.
DiscountPrice	Float	Discounted total price.
Instanceld	String	ID of the instance to which the data disk is mounted. Note: This field may return <code>null</code> , indicating that no valid value was found.

DeniedAction

Restricted operation.

Used by actions: DescribeDisksDeniedActions, DescribeInstancesDeniedActions, DescribeSnapshotsDeniedActions.

Name	Type	Description
Action	String	Restricted operation name.
Code	String	Restricted operation message code.
Message	String	Restricted operation message.

DetailPrice

Billable items

Used by actions: InquirePriceCreateDisks, InquirePriceRenewDisks.

Name	Type	Description

PriceName	String	Values: <ul style="list-style-type: none"> "DiskSpace": Cloud disk space "DiskBackupQuota": Cloud disk backups
OriginUnitPrice	Float	Official unit price of the billable item
OriginalPrice	Float	Official total price of the billable item
Discount	Float	Discount of the billable item
DiscountPrice	Float	Discounted total price of the billable item

DiscountDetail

Package discount details (only returned for price query APIs called in the console).

Used by actions: DescribeBundleDiscount, DescribeDiskDiscount, InquirePriceRenewInstances.

Name	Type	Description
TimeSpan	Integer	Billing duration.
TimeUnit	String	Billing unit.
TotalCost	Float	Total price.
RealTotalCost	Float	Discounted total price.
Discount	Integer	Discount.
PolicyDetail	PolicyDetail	Discount details.

Disk

Disk information

Used by actions: DescribeDisks.

Name	Type	Description
DiskId	String	Disk ID
InstanceId	String	Instance ID

Zone	String	Availability zone
DiskName	String	Disk name
DiskUsage	String	Disk type
DiskType	String	Disk media type
DiskChargeType	String	Disk payment type
DiskSize	Integer	Disk size
RenewFlag	String	Renewal flag
DiskState	String	Disk status. Values: <ul style="list-style-type: none"> PENDING : Creating UNATTACHED : Not attached ATTACHING : Attaching ATTACHED : Attached DETACHING : Detaching SHUTDOWN : Isolated CREATED_FAILED : Failed to create TERMINATING : Terminating DELETING : Deleting FREEZING : Freezing
Attached	Boolean	Whether the disk is attached to an instance
DeleteWithInstance	Boolean	Whether to release the disk along with the instance
LatestOperation	String	Last operation
LatestOperationState	String	Last operation status
LatestOperationRequestId	String	Last request ID
CreatedTime	Timestamp ISO8601	Creation time according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ExpiredTime	Timestamp ISO8601	Expiration time according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: This field may return null, indicating that no valid values can be obtained.

IsolatedTime	Timestamp ISO8601	Isolation time according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: This field may return null, indicating that no valid values can be obtained.
DiskBackupCount	Integer	Total disk backups
DiskBackupQuota	Integer	Disk backup quota

DiskChargePrepaid

Parameter settings for the monthly subscribed cloud disk

Used by actions: CreateDisks, InquirePriceCreateDisks.

Name	Type	Required	Description
Period	Integer	Yes	Purchase duration.
RenewFlag	String	No	Auto-Renewal flag. Valid values: <code>NOTIFY_AND_AUTO_RENEW</code> : Trigger expiration notification and renew automatically <code>NOTIFY_AND_MANUAL_RENEW</code> : Trigger expiration notification but do not renew <code>u200cDISABLE_NOTIFY_AND_AUTO_RENEW</code> : Neither trigger expiration notification nor renew Default: <code>NOTIFY_AND_MANUAL_RENEW</code> . If <code>NOTIFY_AND_AUTO_RENEW</code> is specified, the instance is automatically renewed on a monthly basis when the account balance is sufficient.
TimeUnit	String	No	Purchase duration unit. Default value: "m" (month)

DiskConfig

Cloud disk configuration

Used by actions: DescribeDiskConfigs.

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

Zone	String	Availability zone.
DiskType	String	Cloud disk type.
DiskSalesState	String	Cloud disk sale status.
MaxDiskSize	Integer	Maximum cloud disk size.
MinDiskSize	Integer	Minimum cloud disk size.
DiskStepSize	Integer	Cloud disk increment.

DiskDeniedActions

List of operation limits of disks.

Used by actions: DescribeDisksDeniedActions.

Name	Type	Description
DiskId	String	Cloud disk ID.
DeniedActions	Array of DeniedAction	List of operation limits.

DiskPrice

Cloud disk price

Used by actions: InquirePriceCreateDisks, InquirePriceRenewDisks.

Name	Type	Description
OriginalDiskPrice	Float	Cloud disk unit price.
OriginalPrice	Float	Total cloud disk price.
Discount	Float	Discount.
DiscountPrice	Float	Discounted total price.
DetailPrices	Array of DetailPrice	Detailed billing items

DiskReturnable

Details of the returnable cloud disk

Used by actions: DescribeDisksReturnable.

Name	Type	Description
DiskId	String	Cloud disk ID.
IsReturnable	Boolean	Whether the cloud disk can be returned.
ReturnFailCode	Integer	Error code of cloud disk return failure.
ReturnFailMessage	String	Error message of cloud disk return failure.

DockerContainerConfiguration

Configuration used to create Docker containers

Used by actions: CreateInstances.

Name	Type	Required	Description
ContainerImage	String	Yes	Container image address
ContainerName	String	No	Container name
Envs	Array of ContainerEnv	No	List of environment variables
PublishPorts	Array of DockerContainerPublishPort	No	List of mappings of container ports and host ports
Volumes	Array of DockerContainerVolume	No	List of container mount volumes
Command	String	No	The command to run

DockerContainerPublishPort

Port mapping of the Docker container

Used by actions: CreateInstances.

--	--	--	--

Name	Type	Required	Description
HostPort	Integer	Yes	Host port
ContainerPort	Integer	Yes	Container port
Ip	String	No	External IP. It defaults to 0.0.0.0. Note: This field may return null, indicating that no valid values can be obtained.
Protocol	String	No	The protocol defaults to <code>tcp</code> . Valid values: <code>tcp</code> , <code>udp</code> and <code>sctp</code> . Note: This field may return null, indicating that no valid values can be obtained.

DockerContainerVolume

Docker container mount volume

Used by actions: CreateInstances.

Name	Type	Required	Description
ContainerPath	String	Yes	Container path
HostPath	String	No	Host path

Filter

Key-Value pair filter for conditional filtering queries, such as filtering name

- If there are multiple `Filter` parameters, the relationship among them is the logical `AND`.
- If there are multiple `Values` for the same `Filter`, the relationship among the `Values` is the logical `OR`.

Taking the `Filter` in the `DescribeInstances` API as an example, you can use the following filters to query the instance whose name (`instance-name`) is `test` **and** private IP (`private-ip-address`) is 10.10.10.10:

```
Filters.0.Name=instance-name
&Filters.0.Values.0=test
&Filters.1.Name=private-ip-address
&Filters.1.Values.0=10.10.10.10
```

Used by actions: DescribeBlueprints, DescribeBundles, DescribeDiskConfigs, DescribeDisks, DescribeInstances, DescribeKeyPairs, DescribeModifyInstanceBundles, DescribeResetInstanceBlueprints, DescribeSnapshots.

Name	Type	Required	Description
Name	String	Yes	Field to be filtered.
Values	Array of String	Yes	Filter value of field.

FirewallRule

Firewall rule information.

Used by actions: CreateFirewallRules, DeleteFirewallRules, ModifyFirewallRuleDescription, ModifyFirewallRules.

Name	Type	Required	Description
Protocol	String	Yes	Protocol. Valid values: TCP, UDP, ICMP, ALL.
Port	String	No	Port. Valid values: ALL, one single port, multiple ports separated by commas, or port range indicated by a minus sign
CidrBlock	String	No	IP range or IP (mutually exclusive). Default value: 0.0.0.0/0, which indicates all sources.
Action	String	No	Valid values: ACCEPT, DROP. Default value: ACCEPT.
FirewallRuleDescription	String	No	Firewall rule description.

FirewallRuleInfo

Firewall rule details.

Used by actions: DescribeFirewallRules, DescribeFirewallRulesTemplate.

Name	Type	Description

AppType	String	Application type. Valid values: custom, HTTP (80), HTTPS (443), Linux login (22), Windows login (3389), MySQL (3306), SQL Server (1433), all TCP ports, all UDP ports, Ping-ICMP, ALL.
Protocol	String	Protocol. Valid values: TCP, UDP, ICMP, ALL.
Port	String	Port. Valid values: ALL, one single port, multiple ports separated by commas, or port range indicated by a minus sign
CidrBlock	String	IP range or IP (mutually exclusive). Default value: 0.0.0.0/0, which indicates all sources.
Action	String	Valid values: ACCEPT, DROP. Default value: ACCEPT.
FirewallRuleDescription	String	Firewall rule description.

GeneralResourceQuota

General resource quota information.

Used by actions: DescribeGeneralResourceQuotas.

Name	Type	Description
ResourceName	String	Resource name.
ResourceQuotaAvailable	Integer	Number of available resources.
ResourceQuotaTotal	Integer	Total number of resources.

Instance

Instance information.

Used by actions: DescribeInstances.

Name	Type	Description
InstanceId	String	Instance ID.
BundleId	String	Package ID.
BlueprintId	String	Image ID.

CPU	Integer	Number of instance CPU cores.
Memory	Integer	Instance memory capacity in GB.
InstanceName	String	Instance name.
InstanceChargeType	String	Instance billing mode. Valid values: PREPAID: prepaid (i.e., monthly subscription).
SystemDisk	SystemDisk	Instance system disk information.
PrivateAddresses	Array of String	Private IP of instance primary ENI. Note: this field may return null, indicating that no valid values can be obtained.
PublicAddresses	Array of String	Public IP of instance primary ENI. Note: this field may return null, indicating that no valid values can be obtained.
InternetAccessible	InternetAccessible	Instance bandwidth information.
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.
LoginSettings	LoginSettings	Instance login settings.
InstanceState	String	Instance status. Valid values: <ul style="list-style-type: none"> • PENDING: Creating • LAUNCH_FAILED: Failed to create • RUNNING: Running • STOPPED: Shut down • STARTING: Starting up • STOPPING: Shutting down • REBOOTING: Restarting • SHUTDOWN: Shutdown and to be terminated • TERMINATING: Terminating • DELETING: Deleting • FREEZING: Frozen • ENTER_RESCUE_MODE: Entering the rescue mode • RESCUE_MODE: Rescue mode • EXIT_RESCUE_MODE: Exiting from the rescue mode
Uuid	String	Globally unique ID of instance.
LatestOperation	String	Last instance operation, such as <code>StopInstances</code> and

		<code>ResetInstance</code> . Note: this field may return null, indicating that no valid values can be obtained.
LatestOperationState	String	Last instance operation status. Valid values: SUCCESS: operation succeeded OPERATING: the operation is being executed FAILED: operation failed Note: this field may return null, indicating that no valid values can be obtained.
LatestOperationRequestId	String	Unique request ID for the last operation of the instance. Note: this field may return null, indicating that no valid values can be obtained.
IsolatedTime	Timestamp ISO8601	Isolation time according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: this field may return null, indicating that no valid values can be obtained.
CreatedTime	Timestamp ISO8601	Creation time according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: this field may return null, indicating that no valid values can be obtained.
ExpiredTime	Timestamp ISO8601	Expiration time according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: this field may return null, indicating that no valid values can be obtained.
PlatformType	String	OS type, such as LINUX_UNIX and WINDOWS.
Platform	String	OS type.
OsName	String	OS name.
Zone	String	AZ.
Tags	Array of Tag	The list of tags associated with the instance
InstanceRestrictState	String	Obtain instance status <ul style="list-style-type: none"> NORMAL: The instance is normal NETWORK_RESTRICT: The instance is blocked from the network.

InstanceChargePrepaid

Instance billing mode

Used by actions: CreateInstances, InquirePriceCreateInstances, InquirePriceRenewInstances, RenewInstances.

Name	Type	Required	Description
Period	Integer	Yes	Subscription period in months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36, 48, 60.
RenewFlag	String	No	<p>Auto-Renewal flag. Valid values:</p> <ul style="list-style-type: none"> NOTIFY_AND_AUTO_RENEW: notify upon expiration and renew automatically NOTIFY_AND_MANUAL_RENEW: notify upon expiration but do not renew automatically. You need to manually renew DISABLE_NOTIFY_AND_AUTO_RENEW: neither notify upon expiration nor renew automatically <p>Default value: NOTIFY_AND_MANUAL_RENEW. If this parameter is specified as <code>NOTIFY_AND_AUTO_RENEW</code>, the instance will be automatically renewed monthly if the account balance is sufficient.</p>

InstanceDeniedActions

List of instance operation limits.

Used by actions: DescribeInstancesDeniedActions.

Name	Type	Description
InstanceId	String	Instance ID. Note: this field may return null, indicating that no valid values can be obtained.
DeniedActions	Array of DeniedAction	List of operation limits.

InstancePrice

Price information of Lighthouse instances

Used by actions: InquirePriceCreateInstances, InquirePriceRenewInstances.

Name	Type	Description
OriginalBundlePrice	Float	Original package unit price.
OriginalPrice	Float	Original price.
Discount	Integer	Discount.
DiscountPrice	Float	Discounted price.
Currency	String	Currency unit. Valid values: <code>CNY</code> and <code>USD</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

InstancePriceDetail

Instance price details

Used by actions: InquirePriceRenewInstances.

Name	Type	Description
InstanceId	String	Instance ID. Note: This field may return <code>null</code> , indicating that no valid value was found.
InstancePrice	InstancePrice	Price query information. Note: This field may return <code>null</code> , indicating that no valid value was found.
DiscountDetail	Array of DiscountDetail	Tiered-pricing details. The information of each tier includes the billable period, discount percentage, total price, discounted price, and discount details (<code>UserDiscount</code> , <code>CommonDiscount</code> and <code>FinalDiscount</code>). Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

InstanceReturnable

Whether the instance can be returned.

Used by actions: DescribeInstancesReturnable.

Name	Type	Description
InstanceId	String	Instance ID.
IsReturnable	Boolean	Whether the instance can be returned.
ReturnFailCode	Integer	Error code of instance return failure.
ReturnFailMessage	String	Error message of instance return failure.

InstanceTrafficPackage

Instance traffic package details

Used by actions: DescribeInstancesTrafficPackages.

Name	Type	Description
InstanceId	String	Instance ID.
TrafficPackageSet	Array of TrafficPackage	List of traffic package details.

InternetAccessible

This describes the internet accessibility of the instance created by a launch configuration and declares the internet usage billing method of the instance and the maximum bandwidth

Used by actions: DescribeInstances.

Name	Type	Description
InternetChargeType	String	Network billing mode. Valid values: <ul style="list-style-type: none"> Bill by traffic package: TRAFFIC_POSTPAID_BY_HOUR Bill by bandwidth: BANDWIDTH_POSTPAID_BY_HOUR
InternetMaxBandwidthOut	Integer	Public network outbound bandwidth cap in Mbps.
PublicIpAssigned	Boolean	Whether to assign a public IP.

KeyPair

Key pair information.

Used by actions: CreateKeyPair, DescribeKeyPairs.

Name	Type	Description
KeyId	String	Key pair ID, which is the unique identifier of a key pair.
KeyName	String	Key pair name.
PublicKey	String	Public key (in plain text) of key pair.
AssociatedInstanceIds	Array of String	List of IDs of instances associated with the key pair. Note: this field may return null, indicating that no valid values can be obtained.
CreatedTime	Timestamp ISO8601	Creation time in the format of YYYY-MM-DDThh:mm:ssZ according to ISO 8601 standard. UTC time is used Note: this field may return null, indicating that no valid values can be obtained.
PrivateKey	String	Private key of key pair. Note: this field may return null, indicating that no valid values can be obtained.

LoginConfiguration

Login password information

Used by actions: CreateInstances.

Name	Type	Required	Description
AutoGeneratePassword	String	No	<ul style="list-style-type: none"> <code>YES</code> : Random password. In this case, <code>Password</code> cannot be specified. <code>No</code> : Custom. <code>Password</code> must be specified.
Password	String	No	<p>Instance login password.</p> <p>For Windows instances, the password must contain 12 to 30 characters of the following types. It cannot start with "/" and cannot include the username.</p> <ul style="list-style-type: none"> Lowercase letters: [a-z] Uppercase letters: [A-Z]

			<ul style="list-style-type: none"> • Digits: 0-9 • Symbols: ()`~!@#%&*-+={} :;<>,.?/
KeyIds	Array of String	No	

LoginSettings

Describes login settings of an instance.

Used by actions: DescribeInstances.

Name	Type	Description
KeyIds	Array of String	Key ID list. After a key is associated, you can use it to access the instance. Note: this field may return [], indicating that no valid values can be obtained.

ModifyBundle

Changeable packages for the instance.

Used by actions: DescribeModifyInstanceBundles.

Name	Type	Description
ModifyPrice	Price	Price difference that you need to pay for the new instance package after change.
ModifyBundleState	String	Package change status. Valid values: <ul style="list-style-type: none"> • SOLD_OUT: packages are sold out • AVAILABLE: packages can be changed • UNAVAILABLE: packages cannot be changed currently
Bundle	Bundle	Package information.
NotSupportModifyMessage	String	The reason of package changing failure. It's empty if the package change status is <code>AVAILABLE</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

PolicyDetail

Discount details.

Used by actions: DescribeBundleDiscount, DescribeDiskDiscount, InquirePriceRenewInstances.

Name	Type	Description
UserDiscount	Integer	User discount.
CommonDiscount	Integer	Public discount.
FinalDiscount	Integer	Final discount.
ActivityDiscount	Float	Activity discount. The value <code>null</code> indicates no discount. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
DiscountType	String	Discount type. Valid values: <code>user</code> (user discount), <code>common</code> (discount displayed on the official website), <code>activity</code> (activity discount), <code>null</code> (no discount). Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

Price

Price information

Used by actions: DescribeBundles, DescribeModifyInstanceBundles, InquirePriceCreateInstances, InquirePriceRenewInstances.

Name	Type	Description
InstancePrice	InstancePrice	Instance price.

RegionInfo

Region information.

Used by actions: DescribeRegions.

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

Region	String	Region name, such as <code>ap-guangzhou</code> .
RegionName	String	Region description, such as South China (Guangzhou).
RegionState	String	Region availability status. Its value can only be <code>AVAILABLE</code> .
IsChinaMainland	Boolean	Whether the region is in the Chinese mainland

RenewDiskChargePrepaid

Parameter settings for renewing the monthly subscribed cloud disk

Used by actions: `InquirePriceRenewDisks`, `RenewDisks`.

Name	Type	Required	Description
Period	Integer	No	Renewal period
RenewFlag	String	No	Whether to renew the disk automatically. Values: <code>NOTIFY_AND_AUTO_RENEW</code> : Trigger expiration notification and renew automatically; <code>NOTIFY_AND_MANUAL_RENEW</code> : Trigger expiration notification but do not renew; <code>DISABLE_NOTIFY_AND_MANUAL_RENEW</code> : Do not trigger the notification and do not renew. Default: <code>NOTIFY_AND_MANUAL_RENEW</code> . If <code>NOTIFY_AND_AUTO_RENEW</code> is specified, the instance is automatically renewed on a monthly basis when the account balance is sufficient.
TimeUnit	String	No	Unit of the period. Values: <code>m</code> (month).
CurInstanceDeadline	String	No	Expiration time of the current instance, such as "2018-01-01 00:00:00". Specify this parameter to align the expiration time of the instance and attached cloud disks. <code>CurInstanceDeadline</code> and <code>Period</code> cannot be both specified.

ResetInstanceBlueprint

Image reset information

Used by actions: DescribeResetInstanceBlueprints.

Name	Type	Description
BlueprintInfo	Blueprint	Image details
IsResettable	Boolean	Whether the image can be reset as the target image
NonResettableMessage	String	Non-Resettable flag. If the image is resettable, it will be ""

Scene

Scene information

Used by actions: DescribeScenes.

Name	Type	Description
Sceneld	String	Scene ID
DisplayName	String	Display name of the scene
Description	String	Scene description

SceneInfo

Scene information

Used by actions: DescribeAllScenes.

Name	Type	Description
Sceneld	String	Scene ID
DisplayName	String	Display name of the scene
Description	String	Scene description

Snapshot

Snapshot information.

Used by actions: DescribeSnapshots.

Name	Type	Description
SnapshotId	String	Snapshot ID.
DiskUsage	String	Type of the disk for which the snapshot is created. Valid values: <ul style="list-style-type: none"> SYSTEM_DISK: system disk
DiskId	String	ID of the disk for which the snapshot is created.
DiskSize	Integer	Size of the disk in GB for which the snapshot is created.
SnapshotName	String	Snapshot name, which is a custom snapshot alias.
SnapshotState	String	Snapshot status. Valid values: <ul style="list-style-type: none"> NORMAL: normal CREATING: creating ROLLBACKING: rolling back
Percent	Integer	Snapshot creation or rollback progress in percentage. After success, the value of this field will become 100.
LatestOperation	String	Last snapshot operation. It is recorded only during snapshot creation and rollback. Example values: CreateInstanceSnapshot, RollbackInstanceSnapshot. Note: this field may return null, indicating that no valid values can be obtained.
LatestOperationState	String	Last snapshot operation status. It is recorded only during snapshot creation and rollback. Valid values: <ul style="list-style-type: none"> SUCCESS: operation succeeded OPERATING: the operation is being executed FAILED: operation failed Note: this field may return null, indicating that no valid values can be obtained.
LatestOperationRequestId	String	Unique request ID for the last snapshot operation. It is recorded only during snapshot creation and rollback. Note: this field may return null, indicating that no valid values can be obtained.
CreatedTime	Timestamp ISO8601	Snapshot creation time. Note: This field may return <code>null</code> , indicating that no valid

values can be obtained.

SnapshotDeniedActions

List of snapshot operation limits.

Used by actions: DescribeSnapshotsDeniedActions.

Name	Type	Description
SnapshotId	String	Snapshot ID.
DeniedActions	Array of DeniedAction	List of operation limits.

Software

Image software information.

Used by actions: DescribeBlueprintInstances.

Name	Type	Description
Name	String	Software name.
Version	String	Software version.
ImageUrl	String	Software picture URL.
InstallDir	String	Software installation directory.
DetailSet	Array of SoftwareDetail	List of software details.

SoftwareDetail

Image software details.

Used by actions: DescribeBlueprintInstances.

Name	Type	Description
Key	String	Unique detail key

Title	String	Detail title.
Value	String	Detail value.

SystemDisk

Information on the block device where the operating system is installed, namely the system disk.

Used by actions: DescribeInstances.

Name	Type	Description
DiskType	String	System disk type. Valid values: <ul style="list-style-type: none"> LOCAL_BASIC: local disk LOCAL_SSD: local SSD disk CLOUD_BASIC: HDD cloud disk CLOUD_SSD: SSD cloud disk CLOUD_PREMIUM: Premium Cloud Storage
DiskSize	Integer	System disk size in GB.
DiskId	String	System disk ID. Note: this field may return null, indicating that no valid values can be obtained.

Tag

Information on tags

Used by actions: DescribeInstances.

Name	Type	Required	Description
Key	String	Yes	Tag key
Value	String	Yes	Tag value

TotalPrice

Total price information

Used by actions: InquirePriceRenewInstances.

Name	Type	Description
OriginalPrice	Float	Total original price Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
DiscountPrice	Float	Total discounted price Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

TrafficPackage

Traffic package details.

Used by actions: DescribeInstancesTrafficPackages.

Name	Type	Description
TrafficPackageId	String	Traffic package ID.
TrafficUsed	Integer	Used traffic in bytes during traffic package validity period.
TrafficPackageTotal	Integer	Total traffic in bytes during traffic package validity period.
TrafficPackageRemaining	Integer	Remaining traffic in bytes during traffic package validity period.
TrafficOverflow	Integer	Traffic exceeding package amount in bytes during traffic package validity period.
StartTime	Timestamp ISO8601	Start time of traffic package validity period according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: this field may return null, indicating that no valid values can be obtained.
EndTime	Timestamp ISO8601	End time of traffic package validity period according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ. Note: this field may return null, indicating that no valid values can be obtained.
Deadline	Timestamp ISO8601	Traffic package expiration time according to ISO 8601 standard. UTC time is used. Format: YYYY-MM-DDThh:mm:ssZ.

		Note: this field may return null, indicating that no valid values can be obtained.
Status	String	Traffic package status: <ul style="list-style-type: none"> NETWORK_NORMAL: normal OVERDUE_NETWORK_DISABLED: the network is disconnected due to overdue payments

ZoneInfo

AZ details

Used by actions: DescribeZones.

Name	Type	Description
Zone	String	AZ
ZoneName	String	Chinese name of AZ
InstanceDisplayLabel	String	AZ tags on instance purchase page

Error Codes

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Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

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

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	<code>Authorization</code> in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

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

Service Error Codes

Error Code	Description
AuthFailure	Error with CAM signature/authentication.
AuthFailure.InvalidRegion	This region is not open yet. Please select another one.
FailedOperation.CreateBlueprintFailed	Failed to create the image.
FailedOperation.CreateDisksFailed	Failed to create the cloud disks.
FailedOperation.CreateInstancesFailed	Failed to create the instance.
FailedOperation.CreateKeyPairFailed	Failed to create the key pair.
FailedOperation.DeleteKeyPairFailed	Failed to delete the key pair.
FailedOperation.DescribeBlueprintsFailed	Failed to query the image. Try again later.

FailedOperation.DescribeBundleDiscountFailed	
FailedOperation.DescribeBundlesFailed	
FailedOperation.DescribeInstanceStatus	An error occurred when querying the instance status.
FailedOperation.DescribeInstancesModificationError	Failed to query the instance configuration adjustment.
FailedOperation.DescribeInstancesReturnableError	An error occurred when querying whether the instance is returnable.
FailedOperation.DescribeInstancesTrafficPackagesFailed	Failed to query traffic packages.
FailedOperation.DescribeResourcesReturnableError	The query returns contents that do not meet the requirement.
FailedOperation.DestroyResourcesFailed	Unable to terminate the resource. Please retry later.
FailedOperation.FirewallRulesOperationFailed	Failed to manipulate the firewall rule.
FailedOperation.ImportKeyPairFailed	Failed to import the key pair.
FailedOperation.InstanceOperationFailed	Failed to manipulate the instance.
FailedOperation.InsufficientBalance	
FailedOperation.InvalidCommandNotFound	The command is not found.
FailedOperation.IsolateResourcesFailed	Failed to return the resource.
FailedOperation.ModifyInstancesBundleFailed	Failed to change the instance bundle.
FailedOperation.ModifyResourcesAttributeFailed	Failed to change the resource attribute. Try again later...
FailedOperation.RenewResourcesFailed	Unable to renew the resource
FailedOperation.RequestError	A request error occurred.
FailedOperation.SnapshotOperationFailed	Failed to manipulate the snapshot.
FailedOperation.TradeCallBillingGatewayFailed	Failed to call the billing gateway service. Please try again later.

FailedOperation.TradeGetPriceFailed	Failed to query the price.
FailedOperation.UnableToCreateBlueprint	The operation failed. The custom image could not be created.
FailedOperation.UnableToCreateInstances	Failed to create the instance
InternalError.DescribeDisksReturnableError	The disk query returned invalid content.
InternalError.DescribeInstanceStatus	Failed to query the instance status. Please try again later.
InternalError.DescribeInstancesModification	Failed to query whether the configuration of the instance can be modified.
InternalError.DescribeInstancesModificationError	Failed to query whether the configuration of the instance can be modified.
InternalError.DescribeInstancesReturnableError	Failed to query whether the instance can be returned.
InternalError.DescribeInstancesTrafficPackagesFailed	An error occurred while querying the instance traffic package.
InternalError.DescribeResourcesReturnableError	Error querying the resource
InternalError.GetSnapshotAllocQuotaLockError	Failed to get the snapshot quota lock.
InternalError.InvalidActionNotFound	Failed to find this API
InternalError.InvalidBundlePrice	The package price is incorrect.
InternalError.InvalidCommandNotFound	The command is not found.
InternalError.RequestError	There was an error in the request.
InternalError.TradeCallBillingGatewayFailed	Failed to call billing gateway service
InternalError.TradeGetPriceFailed	Failed to get the price.
InvalidParameter.BundleAndBlueprintNotMatch	The package and the image do not match.
InvalidParameter.BundleIdNotFound	Undefined service package ID.

InvalidParameter.Conflict	Parameters conflicted.
InvalidParameter.FilterValueLimitExceeded	Invalid parameter: the number of <code>Values</code> in the <code>Filter</code> parameter exceeds the allowed maximum number.
InvalidParameter.FirewallRulesDuplicated	Invalid parameter: the firewall rule is duplicated.
InvalidParameter.FirewallRulesExist	Invalid parameter: the firewall rule already exists.
InvalidParameter.InvalidFilter	Invalid parameter: the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidKey	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is invalid.
InvalidParameter.InvalidFilterInvalidNameNotStr	Invalid parameter: the value of <code>Name</code> in the <code>Filter</code> parameter is not a string.
InvalidParameter.InvalidFilterInvalidValuesNotList	Invalid parameter: the <code>Values</code> in the <code>Filter</code> parameter is not a list.
InvalidParameter.InvalidFilterNotDict	Invalid parameter: the <code>Filter</code> parameter is not a dictionary.
InvalidParameter.InvalidFilterNotSupportedName	Invalid parameter: there are unsupported <code>Name</code> values in the <code>Filter</code> parameter.
InvalidParameter.MustSpecifyOneAttributeToModify	Please specify at least one attribute to modify.
InvalidParameter.OnlyAllowModifyOneAttribute	Invalid parameter: only one attribute can be modified at a time.
InvalidParameter.ParameterConflict	Invalid parameter: the parameters conflict.
InvalidParameterValue.BlueprintConfigNotMatch	The configuration of this instance does not meet the requirements of the specified image.

InvalidParameterValue.BlueprintId	The image ID is invalid, as instance reinstallation does not allow switching the OS type.
InvalidParameterValue.BlueprintIdMalformed	Invalid parameter value: the image ID format is invalid.
InvalidParameterValue.BundleAndBlueprintNotMatch	The package and the image do not match.
InvalidParameterValue.BundleNotSupportBlueprintPlatform	The selected package does not support the OS of the image.
InvalidParameterValue.CcnIdMalformed	The ID format of the CCN instance is invalid.
InvalidParameterValue.ClientTokenTooLong	The client token is too long.
InvalidParameterValue.DiskInstanceZoneNotMatch	The AZ of cloud disk does not match the AZ of instance.
InvalidParameterValue.DiskNameTooLong	The disk name is too long.
InvalidParameterValue.DiskSizeNotMatch	The disk size has changed.
InvalidParameterValue.DuplicateParameterValue	The parameter <code>KeyName</code> already exists and is duplicate.
InvalidParameterValue.Duplicated	Invalid parameter value: duplicate values are not allowed.
InvalidParameterValue.FirewallRuleDescriptionTooLong	The length of the firewall rule description exceeds the limit.
InvalidParameterValue.InstanceIdMalformed	Invalid parameter value: the instance ID format is invalid.
InvalidParameterValue.InstanceNameTooLong	Invalid parameter value: the length of the instance name exceeds the upper limit.
InvalidParameterValue.InvalidBlueprintId	The image ID is invalid.
InvalidParameterValue.InvalidBlueprintPlatformType	The type of the image OS is invalid.
InvalidParameterValue.InvalidBlueprintState	Invalid image status value
InvalidParameterValue.InvalidBlueprintType	The image type is invalid.

InvalidParameterValue.InvalidBundle	Invalid package parameter.
InvalidParameterValue.InvalidConsoleDisplayTypes	The console display type is invalid.
InvalidParameterValue.InvalidCurlInstanceDeadline	The current instance expiration time cannot be earlier than the cloud disk expiration time.
InvalidParameterValue.InvalidDiskIdMalformed	Invalid parameter value: the disk ID format is invalid.
InvalidParameterValue.InvalidDiskType	Invalid cloud disk type.
InvalidParameterValue.InvalidInstanceLoginKeyPairPermitLogin	The value of setting whether to use the default key pair for login is incorrect.
InvalidParameterValue.InvalidIpFormat	Invalid parametric value: the IP address format is invalid.
InvalidParameterValue.InvalidKeyPairNameEmpty	Invalid parametric value.
InvalidParameterValue.InvalidKeyPairNameIncludeIllegalChar	The key pair name is invalid.
InvalidParameterValue.InvalidKeyPairNameTooLong	The parameter length is invalid.
InvalidParameterValue.InvalidParameterCombination	Invalid package combination.
InvalidParameterValue.InvalidPassword	The password in the parameter is invalid.
InvalidParameterValue.InvalidResourceQuotaResourceName	Incorrect quota resource name.
InvalidParameterValue.InvalidSceneldMalformed	Invalid scene ID
InvalidParameterValue.InvalidZone	Invalid <code>Zone</code> value.
InvalidParameterValue.KeyPairIdMalformed	Invalid parametric value: the key pair ID format is invalid.
InvalidParameterValue.KeyPairPublicKeyDuplicated	The public key of this key pair already exists in the system and cannot be reused.
InvalidParameterValue.KeyPairPublicKeyMalformed	The format of the specified public key is incorrect.
InvalidParameterValue.LimitExceeded	Invalid parametric value: the number of parameter values

	exceeds the upper limit.
InvalidParameterValue.Negative	Invalid parametric value: it cannot be negative.
InvalidParameterValue.NotAllowToChangePlatformType	It is not allowed to change the OS type.
InvalidParameterValue.OutOfRange	Invalid parametric value: it is not within the valid range.
InvalidParameterValue.PlatformTypeNotSupportFileSystem	The instance OS does not support this file system.
InvalidParameterValue.PlatformTypeNotSupportMountPoint	The instance OS does not support the specified mount point.
InvalidParameterValue.RegionNotFound	The region does not exist.
InvalidParameterValue.RegionNotMatch	The regions do not match.
InvalidParameterValue.RegionNotSupported	Unsupported region.
InvalidParameterValue.RegionUnavailable	The region is unavailable.
InvalidParameterValue.SnapshotIdMalformed	Invalid parametric value: the snapshot ID format is invalid.
InvalidParameterValue.SnapshotNameTooLong	Invalid parametric value: the length of the snapshot name exceeds the upper limit.
InvalidParameterValue.TooLong	The length of the parameter value exceeds the upper limit.
InvalidParameterValue.ZoneInvalid	Invalid AZ.
LimitExceeded.AttachDataDiskQuotaLimitExceeded	Failed to attach the disk: Reached the upper limit of attached data disks
LimitExceeded.BlueprintQuotaLimitExceeded	Failed to create the custom image: Reached the upper limit of custom image quota.
LimitExceeded.DiskQuotaLimitExceeded	Failed to create the image: Insufficient quota.
LimitExceeded.FirewallRulesLimitExceeded	The firewall rule quota is exceeded.

LimitExceeded.InstanceQuotaLimitExceeded	Run out of the instance quota.
LimitExceeded.IsolateResourcesLimitExceeded	Reached the upper limit of resources can be returned
LimitExceeded.KeyPairLimitExceeded	The key pair quota is exceeded.
LimitExceeded.SnapshotQuotaLimitExceeded	The snapshot quota is exceeded.
MissingParameter.MissingParameterPeriodCurlInstanceDeadline	<code>Period</code> or <code>CurInstanceDeadline</code> is required.
OperationDenied.BundleNotSupportModify	This instance does not support upgrading packages.
OperationDenied.DiskCreating	The disk is being created.
OperationDenied.DiskOperationInProgress	The disk is being manipulated. Try again later.
OperationDenied.DiskUsageNotSupportOperation	The cloud disk type of the disk does not support this operation.
OperationDenied.InstanceCreating	It is not allowed to manipulate this instance, as it is being created.
OperationDenied.InstanceOperationInProgress	It is not allowed to manipulate this instance, as the last operation is still in progress.
OperationDenied.OperationDeniedCreateSnapshot	Creating snapshot is not allowed.
OperationDenied.OperationDeniedCreateSnapshotForStorageBundle	Instances using storage packages do not support snapshot creation.
ResourceInUse.KeyPairInUse	The key pair is in use.
ResourceNotFound.BlueprintIdNotFound	The image ID does not exist.
ResourceNotFound.BlueprintNotFound	The specified image does not exist. Please check whether the <code>BlueprintId</code> of the image is correct.
ResourceNotFound.DiskIdNotFound	The disk ID does not exist.
ResourceNotFound.DiskNotFound	The disk does not exist.

ResourceNotFound.FirewallNotFound	The firewall does not exist.
ResourceNotFound.FirewallRulesNotFound	The firewall rule does not exist.
ResourceNotFound.FirewallTemplateNotFound	
ResourceNotFound.InstanceDataDiskNotFound	There are no data disks mounted to the instance.
ResourceNotFound.InstanceIdNotFound	The instance ID does not exist.
ResourceNotFound.InstanceNotFound	The instance does not exist.
ResourceNotFound.KeyIdNotFound	The key pair ID does not exist.
ResourceNotFound.KeyPairNotFound	
ResourceNotFound.PrivateBlueprintNotFound	The custom image does not exist.
ResourceNotFound.RoleNotFound	The service role does not exist. Please add it to the account.
ResourceNotFound.SceneIdNotFound	Scene ID not found.
ResourceNotFound.SnapshotIdNotFound	The snapshot ID does not exist.
ResourceNotFound.SnapshotNotFound	The snapshot does not exist.
ResourceUnavailable.BlueprintUnavailable	The image resource is not available.
ResourceUnavailable.BundleUnavailable	The package is not available.
ResourcesSoldOut.BundleSoldOut	
ResourcesSoldOut.PurchaseSourceHasNoBundleConfigs	There is no available configuration in the package.
ResourcesSoldOut.ZonesHasNoBundleConfigs	There is no available configuration in the package.
UnauthorizedOperation.MFAExpired	MFA has expired.
UnauthorizedOperation.MFANotFound	MFA does not exist.
UnauthorizedOperation.NoPermission	No permission
UnauthorizedOperation.TokenInvalid	
UnsupportedOperation.AttachCcnConditionUnsatisfied	Unable to associate with CCN: there

	is no instance in this region
UnsupportedOperation.AttachCcnFailed	Failed to associate the CCN instance. Please check the CCN status and try again later.
UnsupportedOperation.BlueprintCurStateInvalid	The current status of the image does not support this operation.
UnsupportedOperation.BlueprintOccupied	The image is in use, so this operation is not supported.
UnsupportedOperation.CcnAlreadyAttached	The CCN instance is already associated, and reassociation is not supported.
UnsupportedOperation.CcnNotAttached	No CCN instance has been associated yet, so this operation is not supported.
UnsupportedOperation.DescribeCcnAttachedInstancesFailed	Failed to query the status of the associated CCN instance. Please try again later.
UnsupportedOperation.DetachCcnFailed	Failed to unassociate the CCN instance. Please check the CCN status and try again later.
UnsupportedOperation.DiskBusy	The disk is busy.
UnsupportedOperation.DiskLatestOperationUnfinished	Unsupported operation: the last operation of the disk has not been completed.
UnsupportedOperation.FirewallBusy	The firewall is busy.
UnsupportedOperation.FirewallVersionMismatch	The specified firewall version number does not match the current version.
UnsupportedOperation.InstanceExpired	Unsupported operation: the instance has expired.
UnsupportedOperation.InstanceLinuxUnixCreatingNotSupportPassword	The password can not be set upon creation of a LinuxUnix instance.
UnsupportedOperation.InvalidDiskState	The disk's status does not support this operation.

UnsupportedOperation.InvalidInstanceState	Unsupported operation: the instance status is invalid.
UnsupportedOperation.InvalidSnapshotState	Unsupported operation: the snapshot status is invalid.
UnsupportedOperation.KeyPairBindDuplicate	Unsupported operation: one key pair cannot be bound to the same instance repeatedly.
UnsupportedOperation.KeyPairBindToBlueprints	Unsupported operation: the <code>KeyPair</code> has a binding relationship with the image. Before performing this operation, please delete the custom image bound to the key pair.
UnsupportedOperation.KeyPairNotBoundToInstance	Unsupported operation: key pairs that are not bound to instances cannot be unbound from instances.
UnsupportedOperation.LatestOperationUnfinished	Unsupported operation: the last operation of the instance has not been completed.
UnsupportedOperation.NotSupportSharedBlueprint	The shared image does not support this operation.
UnsupportedOperation.OperationOffline	
UnsupportedOperation.PostDestroyResourceFailed	Terminating a resource in the resource center failed.
UnsupportedOperation.ResetAttachCcnFailed	Failed to reapply to associate a CCN instance. Please check the CCN status and try again later.
UnsupportedOperation.ResourceNotReturnable	The resource cannot be returned.
UnsupportedOperation.SnapshotBusy	The snapshot is busy.
UnsupportedOperation.SystemBusy	System busy
UnsupportedOperation.TatAgentNotOnline	TAT agent on the instance is not online.
UnsupportedOperation.WindowsNotAllowToAssociateKeyPair	Windows instances do not support binding key pairs.

UnsupportedOperation.WindowsNotSupportKeyPair

SSH key pair is not available for
Windows instances