Edge Computing Machine

API Documentation

Product Documentation

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Data Types

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Error Codes

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API Documentation History

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Release 4

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Release updates:

Improvement to existing documentation.

Modified APIs:

- CreateLoadBalancer
  - New input parameters:AddressIPVersion, SubnetId
- DescribePriceRunInstance
  - New input parameters:InstanceChargeType

Modified data structures:

- LoadBalancer
  - New members:AddressIPv6

Release 3

Release time: 2022-06-20 14:29:01

Release updates:

Improvement to existing documentation.

Modified APIs:

- AssignIpv6Addresses
  - New input parameters:Ipv6ISP

Release 2

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Release updates:

Improvement to existing documentation.

Modified data structures:

- NetworkInterface
  - New members:Business

Release 1

Release time: 2022-03-10 11:19:26

Release updates:

Improvement to existing documentation.

New APIs:

- AllocateAddresses
- AssignIpv6Addresses
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- CreateRoutes
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- CreateSecurityGroupPolicies
- CreateSubnet

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- ModifyModuleDisableWanIp
- ModifyModuleImage
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- ModifyModuleName

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- ModifyModuleNetwork
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- ResetInstancesPassword
- ResetRoutes
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- StartInstances
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New data structures:

- Address
- AddressInfo
- AddressTemplateSpecification
- Area
- AssistantCidr
- Backend
- BatchTarget
- City

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- Country
- DataDisk
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- EnhancedService
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- ImageTask
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- InstanceFamilyConfig
- InstanceFamilyTypeConfig
- InstanceNetworkInfo
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- SrcImage

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API Category

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Region APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeNode	Gets node list	20

Module APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateModule	Creates module	20
DeleteModule	Deletes business module	20
DescribeModule	Gets module list	20
DescribeModuleDetail	Displays module details	20
ModifyModuleConfig	Modifies module configuration	20
ModifyModuleDisableWanIp	Specifies whether to prohibit public IP assignment for a module	20
ModifyModuleImage	Modifies the default image of module	20
ModifyModuleIpDirect	Modifies the IP direct access of module	20
ModifyModuleName	Renames module	20
ModifyModuleNetwork	Modifies the default bandwidth cap of module	20
ModifyModuleSecurityGroups	Modifies the default security group of module	20

Instance APIs

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API Name	Feature	Frequency Limit (maximum requests per second)
DescribeInstances	Gets instance information	20
TerminateInstances	Terminates instance	20
AssociateSecurityGroups	Binds security group	20
DescribeInstanceVncUrl	Queries the VNC URL of instance	20
DescribeInstancesDeniedActions	Gets the list of prohibited operations	20
DescribePriceRunInstance	Queries instance price	20
DisassociateSecurityGroups	Unbinds security group	20
ModifyInstancesAttribute	Modifies instance attributes	20
RebootInstances	Restarts instance	20
ResetInstances	Reinstalls instance	20
ResetInstancesMaxBandwidth	Resets the bandwidth cap of instance	20
ResetInstancesPassword	Resets instance password	20
RunInstances	Creates instance	20
StartInstances	Starts instance	20
StopInstances	Shuts down instance	20

Image APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateImage	Creates image	20
DeleteImage	Deletes image	20

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DescribeCustomImageTask	Queries image import task	20
DescribeImage	Displays image list	20
DescribeImportImageOs	Queries the list of operating systems supported by image imported from external resource	20
ImportImage	Imports image	20
ModifyImageAttribute	Modifies image attributes	20

VPC APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateVpc	Creates VPC	20
DeleteVpc	Deletes VPC	20
DescribeVpcs	Queries VPC list	20
ModifyVpcAttribute	Modifies VPC attributes	20

Subnet APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateSubnet	Creates subnet	20
DescribeSubnets	Queries subnet list	20
ModifySubnetAttribute	Modifies subnet attributes	20
DeleteSubnet	Deletes subnet	20
ModifyDefaultSubnet	Modifies default subnet	20
DescribeDefaultSubnet	Queries default subnet in AZ	20

Route Table APIs

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API Name	Feature	Frequency Limit (maximum requests per second)
CreateRouteTable	Creates route table	20
DescribeRouteTables	Queries the list of objects in route table	20
ReplaceRouteTableAssociation	Replaces route table binding relationship	20
ModifyRouteTableAttribute	Modifies route table attributes	20
ResetRoutes	Resets route table name and routing policies	20
DeleteRouteTable	Deletes route table	20
CreateRoutes	Creates routing policy	20
ReplaceRoutes	Replaces routing policy	20
DescribeRouteConflicts	Queries the list of routing policy conflicts	20
EnableRoutes	Enables subnet route	20
DisableRoutes	Disables subnet route	20
DeleteRoutes	Deletes routing policies	20

CLB APIs

API Name	Feature	Frequency Limit (maximum requests per second)
BatchDeregisterTargets	Batch unbinds real servers	20
BatchModifyTargetWeight	Batch modifies the forwarding weights of real servers bound to listener	20
BatchRegisterTargets	Batch binds backend targets	20
CreateListener	Creates CLB listener	20
CreateLoadBalancer	Purchases CLB instance	20

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DeleteListener	Deletes CLB listener	20
DeleteLoadBalancer	Deletes CLB instance	20
DeleteLoadBalancerListeners	Deletes multiple CLB listeners	20
DescribeListeners	Queries CLB listener list	20
DescribeLoadBalanceTaskStatus	Queries the task status of CLB instance	20
DescribeLoadBalancers	Queries CLB instance list	20
DescribeTargetHealth	Gets the health check status of CLB real server	20
DescribeTargets	Queries the list of real servers bound to CLB instance	20
ModifyListener	Modifies CLB listener attributes	20
ModifyLoadBalancerAttributes	Modifies CLB instance attributes	20
ModifyTargetPort	Modifies the port of real server bound to listener	20
ModifyTargetWeight	Modifies the forwarding weight of real server bound to listener	20
SetLoadBalancerSecurityGroups	Configures security groups for CLB instance	20
SetSecurityGroupForLoadbalancers	Binds or unbinds security group to or from multiple CLB instances	20

ENI APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateNetworkInterface	Creates ENI	20
DescribeNetworkInterfaces	Queries ENI list	20
AttachNetworkInterface	Binds ENI to CVM instance	20
DetachNetworkInterface	Unbinds ENI from CVM	20

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	instance	
MigrateNetworkInterface	Migrates ENI	20
AssignPrivateIpAddresses	Applies for private IP for ENI	20
RemovePrivateIpAddresses	Returns the private IPs of ENI	20
MigratePrivateIpAddress	Migrates private IP from ENI	20
AssignIpv6Addresses	Assigns IPv6 address	20
DeleteNetworkInterface	Deletes ENI	20
ModifyIpv6AddressesAttribute	Modifies the IPv6 address attributes of ENI	20
ModifyPrivateIpAddressesAttribute	Modifies the private IP information of ENI	20
ReleaseIpv6Addresses	Releases IPv6 address	20

EIP APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AllocateAddresses	Creates EIP	20
AssociateAddress	Binds EIP	20
DescribeAddressQuota	Queries EIP quota	20
DescribeAddresses	Queries EIP list	20
DescribeTaskResult	Queries the execution result of async task	20
DisassociateAddress	Unbinds EIP	20
ModifyAddressAttribute	Modifies EIP attributes	20
ModifyAddressesBandwidth	Modifies EIP bandwidth	20
ReleaseAddresses	Releases EIP	20

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HAVIP APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateHaVip	Creates HAVIP	20
DeleteHaVip	Deletes HAVIP	20
DescribeHaVips	Queries HAVIP list	20
ModifyHaVipAttribute	Modifies HAVIP attributes	20

Other API

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeBaseOverview	Gets basic data displayed on overview page	20
DescribeConfig	Gets configuration limit information	20
DescribeInstanceTypeConfig	Gets model configuration list	20
DescribeMonthPeakNetwork	Gets the monthly peak and billable inbound/outbound bandwidth values of your node	20
DescribePackingQuotaGroup	Gets the set of packing quotas	20
DescribePeakBaseOverview	Gets the peak data of basic information	20
DescribePeakNetworkOverview	Gets peak network data	20
DescribeTaskStatus	Gets task status	20

Snapshot APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteSnapshots	Deletes snapshot	20

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DescribeSnapshots	Queries snapshot list	20

Key APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateKeyPair	Creates key pair	20
DisassociateInstancesKeyPairs	Unbinds key pair	20

Security Group APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateSecurityGroup	Creates security group	20
CreateSecurityGroupPolicies	Adds security group policy	20
DeleteSecurityGroup	Deletes security group	20
DeleteSecurityGroupPolicies	Deletes security group rule	20
DescribeSecurityGroupAssociationStatistics	Queries association statistics of security group	20
DescribeSecurityGroupLimits	Queries security group quota	20
DescribeSecurityGroupPolicies	Queries security group rule	20
DescribeSecurityGroups	Views security group	20
ModifySecurityGroupAttribute	Modifies security group attributes	20
ModifySecurityGroupPolicies	Modifies the outbound and inbound rules of security group	20
ReplaceSecurityGroupPolicy	Replaces one routing policy of security group	20

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Making API Requests
Request Structure

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1. Service Address

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

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

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Common Params

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

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

Common parameters for Signature Algorithm v3

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

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

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

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

Example of an HTTP GET request structure:

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

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

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

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

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

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

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

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

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

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

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

10
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

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

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

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

Example of an HTTP GET request structure:

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

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

Example of an HTTP POST request structure:

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

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

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

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Signature v3

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

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

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

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

```
POST
/

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

content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

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

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

Note:

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

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

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

3. Calculating the Signature

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

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

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

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

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

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

The following example shows a finished authorization header:

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

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```
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&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGeI%3D&Timestamp=1465185768&Version=2017-03-12.

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

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

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

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Java

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Python

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

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

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

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

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```
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")).hexd
igest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)


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

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

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

Golang

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```go
package main

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

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

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

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

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

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

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

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

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

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

PHP

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

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

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

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

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

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

Ruby

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

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

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

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

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

puts canonical_request

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

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

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

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

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

DotNet

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

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

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

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

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

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

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

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

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

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

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

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

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

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NodeJS

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

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

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

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

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

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

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

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

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

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

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

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

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

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C++

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

using namespace std;

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

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

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

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

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

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

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

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

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```
return output;
}

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

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

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

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

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

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

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

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

Signature Failure

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

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

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Signature

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

1. Applying for Security Credentials

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

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

Python

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

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

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

Golang

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

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

PHP

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

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

Ruby

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

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

DotNet

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

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

NodeJS

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

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

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

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Responses

Last updated：2022-06-01 18:41:16

Response for Successful Requests

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

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

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

Response for Failed Requests

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

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

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

Common Error Codes

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

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

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

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Region APIs
DescribeNode

Last updated：2023-08-18 15:47:45

1. API Description

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

This API is used to get the list of nodes.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeNode.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
Filters.N	No	Array of Filter	Filter. InstanceFamily: instance family.

3. Output Parameters

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Parameter Name	Type	Description
NodeSet	Array of Node	List of node details Note: this field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of nodes.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing region list

This example shows you how to view the list of regions.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeNode
&Filters.0.Name=InstanceFamily
&Filters.0.Values.0=SN3ne
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "187c16d5-1f53-4e88-b684-077f0c7123b2",
"NodeSet": [
{
"ZoneInfo": {
"ZoneId": 10110001,
"ZoneName": "Hangzhou Zone 1",
"Zone": "ap-hangzhou-ecm-1"
},
"Country": {
"CountryId": "china",
"CountryName": "China"
},
"Area": {
"AreaId": "china-east",
"AreaName": "East China"
},
```

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```
"Province": {
"ProvinceId": "china-east-zhejiang",
"ProvinceName": "Zhejiang"
},
"City": {
"CityId": "china-east-zhejiang-hangzhou",
"CityName": "Hangzhou"
},
"RegionInfo": {
"RegionId": 1011,
"Region": "ap-hangzhou-ecm",
"RegionName": "Hangzhou"
},
"ISPSet": [
{
"ISPId": "CMCC",
"ISPName": "China Mobile"
},
{
"ISPId": "CUCC",
"ISPName": "China Unicom"
},
{
"ISPId": "CTCC",
"ISPName": "China Telecom"
},
{
"ISPId": "CTCC;CUCC;CMCC",
"ISPName": "Non-BGP"
}
],
"ISPNum": 3
},
{
"ZoneInfo": {
"ZoneId": 10510001,
"ZoneName": "Shenzhen Zone 5 (China Telecom)",
"Zone": "ap-shenzhen-ecm-ct2"
},
"Country": {
"CountryId": "china",
"CountryName": "China"
},
"Area": {
"AreaId": "china-south",
"AreaName": "South China"
},
```


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```
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
"City": {
"CityId": "china-south-guangdong-shenzhen",
"CityName": "Shenzhen"
},
"RegionInfo": {
"RegionId": 1051,
"Region": "ap-shenzhen-ecm-ct2",
"RegionName": "Shenzhen"
},
"ISPSet": [
{
"ISPId": "CTCC",
"ISPName": "China Telecom"
}
],
"ISPNum": 1
}
],
"TotalCount": 2
}
}
```


5. Developer Resources

SDK

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

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

Command Line Interface

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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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
MissingParameter.MissingNodeParameter	The node operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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Module APIs
ModifyModuleNetwork

Last updated：2023-08-18 14:28:04

1. API Description

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

This API is used to modify the default bandwidth cap of a module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyModuleNetwork.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ModuleId	Yes	String	Module ID
DefaultBandwidth	Yes	Integer	Default outbound bandwidth cap
DefaultBandwidthIn	No	Integer	Default inbound bandwidth cap

3. Output Parameters

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

4. Example

Example1 Modifying the bandwidth cap of module

This example shows you how to modify the bandwidth cap of a module.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyModuleNetwork
&ModuleId=em-bvr8f24q
&DefaultBandwidth=50
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "36c0f8c7-a1fb-4ba5-9e5d-fa3447331a5f"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvaildModifyParam	The parameter is incorrect.
InvalidParameterValue.InvalidBandwidth	The bandwidth size is invalid.
InvalidParameterValue.InvalidBandwidthIn	The inbound bandwidth size exceeds the limit.
InvalidParameterValue.InvalidBandwidthInAndOut	The inbound and outbound bandwidth must be the same.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ModifyModuleName

Last updated：2023-08-18 14:28:05

1. API Description

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

This API is used to rename a module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyModuleName.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ModuleId	Yes	String	Module ID.
ModuleName	Yes	String	Module name.

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Renaming module

This example shows you how to rename a module.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyModuleName
&ModuleId=em-0vag13d1
&ModuleName=Video parsing module
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "36c0f8c7-a1fb-4ba5-9e5d-fa3447331a5f"
}
}
```

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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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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
InvalidParameterValue.InvalidModuleName	The module names conflict.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.

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ModifyModuleImage

Last updated：2023-08-18 14:28:05

1. API Description

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

This API is used to modify the default image of a module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyModuleImage.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
DefaultImageId	Yes	String	Default image ID
ModuleId	Yes	String	Module ID

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Modifying the default image of module

This example shows you how to modify the default image of a module.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyModuleImage
&ModuleId=em-bvr8f24q
&DefaultImageId=img-oy9q2bql
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "36c0f8c7-a1fb-4ba5-9e5d-fa3447331a5f"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvaildModifyParam	The parameter is incorrect.
InvalidParameterValue.InvalidImageArchitecture	Models with a memory of 4 GB or above do not support 32-bit OS images.
InvalidParameterValue.InvalidImageID	The image ID is invalid.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.InstanceTypeNotSupportImage	The current model does not support the selected image.

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DescribeModuleDetail

Last updated：2023-08-18 14:28:06

1. API Description

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

This API is used to display the details of a module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeModuleDetail.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ModuleId	Yes	String	Module ID, such as `em-qn46snq8` .

3. Output Parameters

Parameter Name	Type	Description
Module	Module	Module details. For more information, see `ModuleInfo` in the data

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		structure. Note: this field may return null, indicating that no valid values can be obtained.
ModuleCounter	ModuleCounter	Module statistics. For more information, see `ModuleCounterInfo` in the data structure. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing module details

This example shows you how to view the module details.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeModuleDetail
&ModuleId=em-eedttqfb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "187c16d5-1f53-4e88-b684-077f0c7369b2",
"Module": {
"ModuleId": "em-eedttqfb",
"ModuleName": "test1",
"ModuleState": "NORMAL",
"DefaultBandwidth": 106,
"DefaultImage": {
"ImageId": "img-oikl1tzv",
"ImageName": "CentOS 7.5 64-bit",
"ImageState": "NORMAL",
"ImageType": "PUBLIC_IMAGE",
"ImageOwner": 0,
"ImageOsName": "CentOS 7.5 64-bit",
"ImageDescription": "CentOS 7.5 64-bit",
"Architecture": "x86_64",
"OsType": "linux",
```

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```
"Platform": "CentOS",
"OsVersion": "7.5.0",
"ImageCreateTime": "",
"ImageSize": 50
},
"InstanceTypeConfig": {
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.2XLARGE16",
"Vcpu": 8,
"Memory": 16,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
"DefaultSystemDiskSize": 50,
"DefaultDataDiskSize": 48,
"CreateTime": "2020-03-09 17:03:44"
},
"ModuleCounter": {
"ISPCounterSet": [
{
"ProviderName": "CTCC",
"ProviderNodeNum": 1,
"ProvederInstanceNum": 1,
"ZoneInstanceInfoSet": [
{
"ZoneName": "Beijing Zone 3 (China Telecom)",
"InstanceNum": 1
}
]
},
{
"ProviderName": "CMCC",
"ProviderNodeNum": 2,
"ProvederInstanceNum": 2,
"ZoneInstanceInfoSet": [
{
"ZoneName": "Beijing Zone 1 (China Mobile)",
"InstanceNum": 1
},
```


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```
{
"ZoneName": "Chengdu Zone 2 (China Mobile)",
"InstanceNum": 1
}
]
}
],
"NodeNum": 3,
"InstanceNum": 3,
"ProvinceNum": 2,
"CityNum": 2
}
}
}
```


5. Developer Resources

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6. Error Code

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

Error Code	Description

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FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeModule

Last updated：2023-08-18 15:47:45

1. API Description

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

This API is used to get the list of modules.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeModule.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
Filters.N	No	Array of Filter	Filter. module-name - string - Required: no - (Filter) Filter by module name. module-id - string - Required: no - (Filter) Filter by module ID. image-id String Required: no (Filter) Filter by image ID. instance-family String Required: no (Filter) Filter by model family. security-group-id - string Required: no - (Filter) Filter by ID of the security group bound to the module. Each request can contain up to 10 `Filters` and 5 `Filter.Values` .
Offset	No	Integer	Offset. Default value: 0. For more information on `Offset` , see the

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			relevant section of the API overview.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on `Limit` , see the relevant section of the API overview.
OrderByField	No	String	Specified sort by field. Currently, valid values are as follows: instance-num: sort by the number of instances. node-num: sort by the number of nodes. timestamp: sort by instance creation time. If this parameter is not specified, instances will be sorted by creation time by default.
OrderDirection	No	Integer	Sorting order. 0: descending; 1: ascending. If this parameter is not specified, it will be descending by default.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible modules. Note: this field may return null, indicating that no valid values can be obtained.
ModuleItemSet	Array of ModuleItem	List of module details. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing module list

This example shows you how to view the list of modules.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeModule
&Offset=0
```

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```
&Limit=10
&<Common request parameters>
```

Output Example


```
{
"Response": {
"TotalCount": 17,
"ModuleItemSet": [
{
"NodeInstanceNum": {
"InstanceNum": 3,
"NodeNum": 3
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 48,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 8,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 16,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"RegionName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
```


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```
},
"ImageCreateTime": "xx",
"ImageSize": 50,
"ImageSource": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"OsVersion": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 106,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Value": "xx",
"Key": "xx"
}
],
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 1,
"NodeNum": 1
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 50,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 4,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
```


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```
"InstanceFamily": "xx"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 8,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
"ImageCreateTime": "xx",
"ImageSize": 50,
"OsVersion": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 100,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
```


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```
"Value": "xx"
}
],
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 0,
"NodeNum": 0
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 0,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 24,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 48,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
```


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```
"ImageCreateTime": "xx",
"ImageSize": 50,
"OsVersion": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 25,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
"Value": "xx"
}
],
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 0,
"NodeNum": 0
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 0,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 1,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
```


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```
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 2,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
"ImageCreateTime": "xx",
"ImageSize": 50,
"OsVersion": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 35,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
"Value": "xx"
```


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```
}
],
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 1,
"NodeNum": 1
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 49,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 8,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 16,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
"ImageCreateTime": "xx",
```


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```
"ImageSize": 50,
"OsVersion": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 534,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
"Value": "xx"
}
],
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 0,
"NodeNum": 0
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 0,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 1,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
},
```


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```
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 2,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
"ImageCreateTime": "xx",
"ImageSize": 50,
"OsVersion": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 25,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
"Value": "xx"
}
```


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```
],
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 0,
"NodeNum": 0
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 0,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 1,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 2,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
"ImageCreateTime": "xx",
"ImageSize": 50,
```


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```
"OsVersion": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 25,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
"Value": "xx"
}
],
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 0,
"NodeNum": 0
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 0,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 16,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
},
"InstanceFamilyTypeConfig": {
```


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```
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 32,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
"ImageCreateTime": "xx",
"ImageSize": 50,
"OsVersion": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 25,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
"Value": "xx"
}
],
```


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```
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 0,
"NodeNum": 0
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 0,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 1,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
"InstanceFamilyTypeName": "xx"
},
"Memory": 2,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
"ImageCreateTime": "xx",
"ImageSize": 50,
"OsVersion": "xx",
```


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```
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 25,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
"Value": "xx"
}
],
"CloseIpDirect": 0,
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
},
{
"NodeInstanceNum": {
"InstanceNum": 0,
"NodeNum": 0
},
"Module": {
"ModuleName": "xx",
"DefaultDataDiskSize": 100,
"DefaultBandwidthIn": 0,
"InstanceTypeConfig": {
"CpuModelName": "xx",
"Vcpu": 32,
"InstanceFamilyConfig": {
"InstanceFamilyName": "xx",
"InstanceFamily": "xx"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "xx",
```


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```
"InstanceFamilyTypeName": "xx"
},
"Memory": 64,
"ExtInfo": "xx",
"Frequency": "xx",
"InstanceType": "xx"
},
"DefaultImage": {
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"ImageOsName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"RegionName": "xx"
},
"ImageCreateTime": "xx",
"ImageSize": 50,
"OsVersion": "xx",
"ImageDescription": "xx",
"ImageOwner": 0,
"ImageId": "xx",
"ImageState": "xx",
"Platform": "xx",
"ImageName": "xx",
"Architecture": "xx",
"OsType": "xx",
"ImageSource": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
},
"DefaultSystemDiskSize": 50,
"DefaultBandwidth": 5000,
"SecurityGroupIds": [
"xx"
],
"TagSet": [
{
"Key": "xx",
"Value": "xx"
}
],
"CloseIpDirect": 0,
```


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```
"ModuleState": "xx",
"CreateTime": "xx",
"ModuleId": "xx"
}
}
],
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	Authentication failed.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.

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InvalidParameterValue.InvaildPageParam	The pagination parameter is invalid.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DeleteModule

Last updated：2023-08-18 14:28:06

1. API Description

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

This API is used to delete a business module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteModule.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ModuleId	Yes	String	Module ID, such as `em-qn46snq8` .

3. Output Parameters

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

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4. Example

Example1 Deleting module

This example shows you how to delete a module.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteModule
&ModuleId=em-bvr8f24q
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "8412fe9e-cea8-4f4e-b6d0-3357bb85a55c"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InstanceInModule	An instance already exists under the module.
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationConflict	The current operation cannot be performed as another operation is being performed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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CreateModule

Last updated：2023-08-18 15:47:45

1. API Description

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

This API is used to create a module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateModule.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ModuleName	Yes	String	Module name, such as video live streaming module name. It cannot start with a space or exceed 60 characters.
DefaultBandWidth	Yes	Integer	Default bandwidth in Mbps. It cannot exceed the bandwidth range. For more information, see `DescribeConfig` .
DefaultImageId	Yes	String	Default image ID, such as `img-qsdf3ff2` .

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InstanceType	Yes	String	Model ID.
DefaultSystemDiskSize	Yes	Integer	Default system disk size in GB. It is 50 GB by default and cannot exceed the system disk size range. For more information, see `DescribeConfig` .
DefaultDataDiskSize	Yes	Integer	Default data disk size in GB. It cannot exceed the system disk size range. For more information, see `DescribeConfig` .
CloseIpDirect	No	Boolean	Whether to disable IP direct access. Valid values: true: yes false: no
TagSpecification.N	No	Array of TagSpecification	List of tags.
SecurityGroups.N	No	Array of String	List of default module security groups
DefaultBandWidthIn	No	Integer	Default inbound bandwidth in Mbps. It cannot exceed the bandwidth range. For more information, see `DescribeConfig` .
DisableWanIp	No	Boolean	Whether to prohibit public IP assignment
SystemDisk	No	SystemDisk	System disk information.
DataDisks.N	No	Array of DataDisk	Data disk information.

3. Output Parameters

Parameter Name	Type	Description
ModuleId	String	Module ID. It is the ID assigned to a module after it is created successfully.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

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Example1 Creating smart voice module

Input Example

```
https://ecm.tencentcloudapi.com/?Action=CreateModule
&ModuleName=Smart voice module
&DefaultBandWidth=50
&DefaultImageId=img-1tyt4apn
&InstanceType=SN3ne.2XLARGE16
&DefaultSystemDiskSize=50
&DefaultDataDiskSize=100
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "418150c2-ff9e-409c-a6b3-c1a59d4775e3",
"ModuleId": "em-r8nkc81r"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvaildModuleNum	The number of modules is invalid.
InvalidParameterValue.InvalidBandwidth	The bandwidth size is invalid.
InvalidParameterValue.InvalidBandwidthIn	The inbound bandwidth size exceeds the limit.
InvalidParameterValue.InvalidBandwidthInAndOut	The inbound and outbound bandwidth must be the same.
InvalidParameterValue.InvalidDataDiskSize	The data disk size is invalid.
InvalidParameterValue.InvalidEIPDirectService	Windows images do not support IP direct access.
InvalidParameterValue.InvalidImageArchitecture	Models with a memory of 4 GB or above do not support 32-bit OS images.
InvalidParameterValue.InvalidImageID	The image ID is invalid.
InvalidParameterValue.InvalidInstanceTypeConfigID	The model ID is invalid.
InvalidParameterValue.InvalidModuleName	The module names conflict.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidSystemDiskSize	The system disk size is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
InvalidParameterValue.UserNotSupportIPv6	IPv6 is not supported.
LimitExceeded.ModuleSecurityGroupLimitExceeded	The number of default module security groups exceeds the limit.
LimitExceeded.SecurityGroupModuleLimitExceeded	The number of modules that can be associated with the security group exceeds the limit.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.

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ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.InstanceTypeNotSupportImage	The current model does not support the selected image.

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ModifyModuleConfig

Last updated：2023-08-18 14:28:05

1. API Description

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

This API is used to modify the configuration of a module. You cannot modify the configuration of the module if it is associated with 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: ModifyModuleConfig.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ModuleId	Yes	String	Module ID.
InstanceType	Yes	String	Model ID.
DefaultDataDiskSize	Yes	Integer	Default data disk size in GB. It cannot exceed the system disk size range. For more information, see `DescribeConfig` .
DefaultSystemDiskSize	No	Integer	Default system disk size in GB. It cannot exceed the

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			system disk size range. For more information, see `DescribeConfig` .
SystemDisk	No	SystemDisk	System disk
DataDisks.N	No	Array of DataDisk	Data disk

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 module configuration

This example shows you how to modify the configuration of a module.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyModuleConfig
&ModuleId=em-0vag13d1
&InstanceType=SN3ne.2XLARGE16
&DefaultDataDiskSize=100
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "36c0f8c7-a1fb-4ba5-9e5d-fa3447331a5f"
}
}
```

5. Developer Resources

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SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvaildModifyParam	The parameter is incorrect.
InvalidParameterValue.InvalidDataDiskSize	The data disk size is invalid.
InvalidParameterValue.InvalidImageArchitecture	Models with a memory of 4 GB or above do not support 32-bit OS images.
InvalidParameterValue.InvalidInstanceType	The configuration of a High-IO model cannot be adjusted.
InvalidParameterValue.InvalidInstanceTypeConfigID	The model ID is invalid.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.ModuleNotAllowChange	The default configuration of an ECM module associated

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	with instances cannot be modified.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ModifyModuleIpDirect

Last updated：2023-08-18 14:28:05

1. API Description

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

This API is used to modify the IP direct access of a module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyModuleIpDirect.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ModuleId	Yes	String	Module ID.
CloseIpDirect	Yes	Boolean	Whether to disable IP direct access. Valid values: true: yes false: no

3. Output Parameters

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

4. Example

Example1 Modifying IP direct access of module

This example shows you how to modify the IP direct access of a module.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyModuleIpDirect
&ModuleId=em-0vag13d1
&CloseIpDirect=true
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "42c0f8c7-a1fb-4ba5-9e5d-fa3447331a4g"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidEIPDirectService	Windows images do not support IP direct access.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.

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ModifyModuleSecurityGroups

Last updated：2023-08-18 14:28:04

1. API Description

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

This API is used to modify the default security group of a module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyModuleSecurityGroups.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupIdSet.N	Yes	Array of String	List of up to 5 security groups.
ModuleId	Yes	String	Module ID.

3. Output Parameters

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

4. Example

Example1 Modifying the default security group of module

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyModuleSecurityGroups
&SecurityGroupIdSet.0=esg-2071nxxw
&SecurityGroupIdSet.1=esg-belgyqvu
&ModuleId=em-06qmx7wa
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "0f092f2e-0ea2-4c20-9f22-ef4b629c99fa"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
LimitExceeded.ModuleSecurityGroupLimitExceeded	The number of default module security groups exceeds the limit.
LimitExceeded.SecurityGroupModuleLimitExceeded	The number of modules that can be associated with the security group exceeds the limit.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.

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ModifyModuleDisableWanIp

Last updated：2023-08-18 14:28:05

1. API Description

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

This API is used to specify whether to prohibit public IP assignment for a module.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyModuleDisableWanIp.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ModuleId	Yes	String	Module ID
DisableWanIp	Yes	Boolean	Whether to prohibit public IP assignment. Valid values: true: no; false: yes.

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Specifying whether to prohibit public IP assignment for module

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyModuleDisableWanIp
&ModuleId=em-0vag13d1
&DisableWanIp=true
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "42c0f8c7-a1fb-4ba5-9e5d-fa3447331a12"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.

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Instance APIs
TerminateInstances

Last updated：2023-08-18 14:28:07

1. API Description

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

This API is used to terminate 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: TerminateInstances.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	List of IDs of the instances to be terminated.
TerminateDelay	No	Boolean	Whether to enable scheduled termination. Default value: no.
TerminateTime	No	String	Scheduled termination time, such as `2019-08-05 12:01:30` . If you don't enable scheduled

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			termination, you can ignore this parameter.
AssociatedResourceDestroy	No	Boolean	Whether to delete the bound ENI and EIP. Default value: true. true: the ENI and EIP will also be deleted; false: only the server will be terminated, while the ENI and EIP will be retained.

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 instance

This example shows you how to terminate an instance.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=TerminateInstances
&TerminateDelay=true
&InstanceIdSet.0=ein-197252sp
&InstanceIdSet.1=ein-187232ag
&TerminateTime=2019-08-01 18:32:56
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "df348fj3-03g7-4ss0-y7sj-78e2322a3242"
}
}
```

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5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.InvalidTime	The time is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
InvalidParameterValue.TerminateTimeSmaller	The scheduled termination time is before the current time.
ResourceNotFound.InstanceNotExist	The instance is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ResetInstancesMaxBandwidth

Last updated：2023-08-18 14:28:08

1. API Description

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

This API is used to reset the bandwidth cap 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: ResetInstancesMaxBandwidth.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	List of IDs of the instances for which to reset the bandwidth cap. You can request up to 100 instances in a region at a time.
MaxBandwidthOut	Yes	Integer	Modified outbound bandwidth cap.
MaxBandwidthIn	No	Integer	Modified inbound bandwidth cap.

3. Output Parameters

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

4. Example

Example1 Modifying the bandwidth cap of instance

This example shows you how to modify the bandwidth cap of an instance.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ResetInstancesMaxBandwidth
&InstanceIdSet.0=ein-592937kl
&InstanceIdSet.1=ein-958392ko
&MaxBandwidthOut=50
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "oe333tw8-03g7-4ss0-y7sj-76a0921a2390"
}
}
```

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 C++

Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidBandwidth	The bandwidth size is invalid.
InvalidParameterValue.InvalidBandwidthIn	The inbound bandwidth size exceeds the limit.
InvalidParameterValue.InvalidBandwidthInAndOut	The inbound and outbound bandwidth must be the same.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
ResourceNotFound.InstanceNotExist	The instance is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ResetInstances

Last updated：2023-08-18 14:28:08

1. API Description

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

This API is used to reinstall an instance. If you specify the `ImageId` parameter, the specified image will be used; otherwise, the image used by the current instance will be used. If you don't specify the password, a password will be sent later in Message Center.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResetInstances.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	List of IDs of the instances to be reinstalled.
ImageId	No	String	ID of the image from which to install the instance. If this parameter is not specified, the current image of the instance will be used.
Password	No	String	Password. If this parameter is not specified, the

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			password will be subsequently displayed in the Message Center.
EnhancedService	No	EnhancedService	Whether to enable CM and CWP. If this parameter is not specified, they will be enabled by default.
KeepData	No	String	Whether to retain the data on the data disk. Valid values: true, false. Default value: true
KeepImageLogin	No	String	Whether to keep the original settings for the image. You cannot specify this parameter if `Password` or `KeyIds.N` is specified. You can specify this parameter as `TRUE` only when you create an instance by using a custom image, shared image, or image imported from an external resource. Valid values: TRUE: yes FALSE: no Default value: FALSE. Note: this field may return null, indicating that no valid values can be obtained.

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 instance

This example shows you how to reinstall an instance.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ResetInstances
&InstanceIdSet.0=ein-492054ga
&InstanceIdSet.1=ein-482972ao
```

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```
&ImageId=img-q9fy0if9
&Password=hpjtfgnb3nwa
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "s46ofg79-6hm8-4b48-b3aa-djl3424-6jgfh"
}
}
```

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.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.

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InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.ParameterConflict	Only `KeepImageLogin` , `Password` , or `KeyIds` can be used at a time.
InvalidParameterValue.InvaildPassword	The password is invalid.
InvalidParameterValue.InvalidImageArchitecture	Models with a memory of 4 GB or above do not support 32-bit OS images.
InvalidParameterValue.InvalidImageID	The image ID is invalid.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
OperationDenied.InstanceOperationInProgress	The current operation is not allowed.
ResourceNotFound.InstanceNotExist	The instance is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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RebootInstances

Last updated：2023-08-18 14:28:08

1. API Description

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

This API is used to restart an instance. Only instances in `RUNNING` status can be restarted. The instance status will become `REBOOTING` when the API is called successfully and will become `RUNNING` when the instance is restarted successfully. Forced restart is supported. Just like powering off a physical PC and restarting it, a forced restart may cause data loss or file system corruption. Make sure that you use this API only when the server cannot be restarted normally.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the 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: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	List of IDs of the instances to be restarted. You can request up to 100 instances in a region at a time.
ForceReboot	No	Boolean	Whether to force restart the instance after it failed to be restarted normally. Valid values: TRUE: yes;

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			FALSE: no; Default value: FALSE.
StopType	No	String	Shutdown type. Valid values: SOFT: soft shutdown HARD: hard shutdown SOFT_FIRST: perform a soft shutdown first; if it fails, perform a hard shutdown Default value: SOFT.

3. Output Parameters

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

4. Example

Example1 Restarting instance

This example shows you how to restart an instance.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=RebootInstances
&InstanceIdSet.0=ein-496721al
&InstanceIdSet.1=ein-438242bp
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d40cdb72-7bc0-4b48-b3aa-dj13424-a6482"
}
}
```

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5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidDataDiskType	The data disk type is invalid.
InvalidParameterValue.InvalidISPInNode	The ISP is invalid.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
OperationDenied.InstanceOperationInProgress	The current operation is not allowed.
ResourceNotFound.InstanceNotExist	The instance is invalid.

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ResourceUnavailable.InstanceNotRunning	The instance is not running.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ModifyInstancesAttribute

Last updated：2023-08-18 14:28:08

1. API Description

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

This API is used to modify the attributes of an instance.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyInstancesAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	List of IDs of the instances to be modified. You can request up to 100 instances at a time.
InstanceName	No	String	Instance name displayed after successful modification, which can contain up to 60 characters. If this parameter is not specified, an empty value will be displayed.
SecurityGroups.N	No	Array of String	List of IDs of the security groups of the instance. The instance will be associated with the specified security groups and will be disassociated from the original security groups. The maximum quantity is 5.

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3. Output Parameters

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

4. Example

Example1 Modifying instance attributes

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

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyInstancesAttribute
&InstanceIdSet.0=ein-353568gt
&InstanceName=zhibodanmu
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "0f092f2e-0ea2-4c20-9f22-ef4b629c99fa"
}
}
```

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 PHP
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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.InstanceOwnerCheckFailed	The instance does not belong to the current module.
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
LimitExceeded.SecurityGroupInstanceLimitExceeded	The number of instances bound to the security group exceeds the limit.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeInstancesDeniedActions

Last updated：2023-08-18 14:28:09

1. API Description

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

This API is used to get the information of prohibited operations by instance ID.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeInstancesDeniedActions.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	None

3. Output Parameters

Parameter Name	Type	Description
InstanceOperatorSet	Array of	Prohibited operations for the instance

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

4. Example

Example1 Getting the list of prohibited operations

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeInstancesDeniedActions
&InstanceIdSet.0=ein-19828lyz
&InstanceIdSet.1=ein-198302ok
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "78ed3f8b-e1d4-48ad-a4a3-2164e2f528c5"
}
}
```

5. Developer Resources

SDK

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
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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.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
MissingParameter.MissingInstancesParameter	The instance operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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RunInstances

Last updated：2023-08-18 14:28:07

1. API Description

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

This API is used to create an ECM 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: RunInstances.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ZoneInstanceCountISPSet.N	Yes	Array of ZoneInstanceCountISP	List of AZs in which to create instances, the number of instances to be created, and the ISPs. You can create up to 100 instances in a region at a time.
Password	No	String	Instance login password. Different OS types have different limits on password complexity as detailed below:

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			The password of a Linux instance must contain 8–30 characters in at least two of the following character types: letters, digits, and special symbols [( ) `~ ! @ # $ % ^ & - + =	{ } [ ] : ; ' , . ? /]`. The password of a `Windows instance must contain 12-30 characters in at least three of the following character types: letters, digits, and special symbols [( )` ~ ! @ # $ % ^ & - + = | { } [ ] : ; ' , . ? /].
InternetMaxBandwidthOut	No	Integer	Public network outbound bandwidth cap in Mbps. 1. If you don't specify this parameter or specify it as `0`, the default value under the corresponding module will be used. 2. If you don't specify this parameter or specify it as `0` without specifying the module, the value of `InternetMaxBandwidthIn` will be used
ModuleId	No	String	Module ID. If you don't specify this parameter, you must specify the `ImageId`, `InstanceType`, `DataDiskSize`, and `InternetMaxBandwidthOut` parameters
ImageId	No	String	Image ID. If you don't specify this parameter or specify it as null, the default value under the corresponding module will be used.
InstanceName	No	String	Instance display name. If this parameter is not specified, `Not named` will be displayed by default. If you purchase multiple instances and specify the pattern string

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			`{R:x}` , display names will be generated based on `[x, x+n-1]` , where `n` is the number of the purchased instances. For example, if you specify `server\_{R:3}` and purchase 1 instance, the display name will be `server\_3` , and if you purchase 2 instances, the display names will be `server\_3` and `server\_4` respectively. You can specify multiple pattern strings `{R:x}` . If you purchase multiple instances and don't specify the pattern string, the instance display names will be suffixed with 1, 2...n, where `n` indicates the number of the purchased instances. For example, if you specify `server_` and purchase 2 instances, the instance display names will be `server\_1` and `server\_2` respectively. If the purchased instances belong to different regions or ISPs, the above rules will apply to each region and ISP independently. It can contain up to 60 characters (including pattern string).
HostName	No	String	Server name `HostName` cannot start or end with a dot or hyphen and cannot contain consecutive dots or hyphens. Windows instance: the name can contain 2–15 letters, digits, and hyphens but not dots or only digits. Other types (such as Linux) of instances: the name should be a combination of 2 to 60 characters, supporting multiple dots. A string between two dots can contain letters, digits, and hyphens.
ClientToken	No	String	The string used to ensure the idempotency of the request.

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			Currently, it is a reserved parameter; therefore, do not use it.
EnhancedService	No	EnhancedService	Enhanced services. You can use this parameter to specify whether to enable services such as Cloud Security and Cloud Monitor. If this parameter is not specified, Cloud Monitor and Cloud Security will be enabled for public images by default.
TagSpecification.N	No	Array of TagSpecification	Tag list
UserData	No	String	The user data provided to the instance, which needs to be Base64-encoded with a maximum size of 16 KB
InstanceType	No	String	Model. If you don't specify this parameter or specify it as null, the default value under the corresponding module will be used.
DataDiskSize	No	Integer	Data disk size in GB. If you don't specify this parameter or specify it as `0`, the default value under the corresponding module will be used
SecurityGroupIds.N	No	Array of String	Security group of the instance, which can be obtained from the `sgId` field in the returned value of the `DescribeSecurityGroups` API. If this parameter is not specified, the default security group will be bound by default.
SystemDiskSize	No	Integer	System disk size in GB. If you don't specify this parameter or specify it as `0`, the default value under the corresponding module will be used
InternetMaxBandwidthIn	No	Integer	Public network inbound bandwidth cap in Mbps. 1. If you don't specify this parameter or specify it as `0`, the default value under the corresponding module will

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			be used. 2. If you don't specify this parameter or specify it as `0` without specifying the module, the value of `InternetMaxBandwidthOut` will be used
InstanceChargeType	No	Integer	Instance billing type. Valid values: 0: postpaid by resource usage, where the daily peak usage of the CPU, memory, and disk will be calculated. This billing mode applies only to non-GNR models; 1: hourly postpaid at the unit price of xx USD/instance/hour. This billing mode applies only to GNR models. To enable it, submit a ticket for application; 2: monthly postpaid at the unit price of xx USD/instance/month. This billing mode applies only to GNR models; If this field is left empty, `0` will be selected by default for non-GNR models, and `2` will be selected by default for GNR models.
KeyIds.N	No	Array of String	Key pair.
KeepImageLogin	No	String	Whether to keep the original settings for the image. You cannot specify this parameter if `Password` or `KeyIds.N` is specified. You can specify this parameter as `TRUE` only when you create an instance by using a custom image, shared image, or image imported from an external resource. Valid values: TRUE: yes FALSE: no Default value: FALSE. Note: this field may return null, indicating that no valid values can be obtained.

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SystemDisk	No	SystemDisk	System disk information.
DataDisks.N	No	Array of DataDisk	Data disk information.

3. Output Parameters

Parameter Name	Type	Description
InstanceIdSet	Array of String	List of IDs of the instances being created Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=RunInstances
&ZoneInstanceCountISPSet.0.Zone=ap-zhengzhou-1
&ZoneInstanceCountISPSet.0.InstanceCount=2
&ZoneInstanceCountISPSet.0.ISP=CMCC
&ZoneInstanceCountISPSet.1.Zone=ap-qingdao-1
&ZoneInstanceCountISPSet.1.InstanceCount=1
&ZoneInstanceCountISPSet.1.ISP=CUCC
&InternetMaxBandwidthOut=50
&ImageId=img-q9fy0if9
&HostName=oldhen_4986
&ModuleId=em-0vag13d1
&InstanceName=Live on-screen commenting
&EnhancedService.SecurityService.Enabled=false
&EnhancedService.MonitorService.Enabled=false
&InstanceChargeType=0
&<Common request parameters>
```

Output Example

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```
{
"Response": {
"RequestId": "d40cdb72-7bc0-4b48-b3aa-25e8401f6999",
"InstanceIdSet": [
"ein-197252sp",
"ein-19725win",
"ein-19623ash"
]
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.BlockBalance	Insufficient balance.
FailedOperation.InternalOperationFailure	Internal error.

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FailedOperation.OperationConflict	The current operation cannot be performed as another operation is being performed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.ParameterConflict	Only `KeepImageLogin` , `Password` , or `KeyIds` can be used at a time.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.FilterLimitExceeded	The value of the `Filter` parameter exceeds the limit.
InvalidParameterValue.ImageSizeLargeThanSysDiskSize	The image size is greater than the system disk size.
InvalidParameterValue.InstanceConfigNotMatch	The instance configuration does not match.
InvalidParameterValue.InstanceNameTooLong	The instance name length exceeds the limit.
InvalidParameterValue.InstanceTypeNotMatchPid	The instance model and `pid` do not match.
InvalidParameterValue.InvaildHostName	`HostName` is invalid.
InvalidParameterValue.InvaildModifyParam	The parameter is incorrect.
InvalidParameterValue.InvaildPassword	The password is invalid.
InvalidParameterValue.InvalidBandwidth	The bandwidth size is invalid.
InvalidParameterValue.InvalidBandwidthIn	The inbound bandwidth size exceeds the limit.
InvalidParameterValue.InvalidBandwidthInAndOut	The inbound and outbound bandwidth must be the same.
InvalidParameterValue.InvalidBillingType	The selected billing mode is not supported.

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InvalidParameterValue.InvalidDataDiskNum	The number of data disks is invalid.
InvalidParameterValue.InvalidDataDiskSize	The data disk size is invalid.
InvalidParameterValue.InvalidDataDiskType	The data disk type is invalid.
InvalidParameterValue.InvalidEIPDirectService	Windows images do not support IP direct access.
InvalidParameterValue.InvalidISPInNode	The ISP is invalid.
InvalidParameterValue.InvalidImageArchitecture	Models with a memory of 4 GB or above do not support 32-bit OS images.
InvalidParameterValue.InvalidImageID	The image ID is invalid.
InvalidParameterValue.InvalidInstanceChargeType	The billing mode of the instance is invalid.
InvalidParameterValue.InvalidInstanceTypeConfigID	The model ID is invalid.
InvalidParameterValue.InvalidInternetChargeType	The billing mode is invalid.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
InvalidParameterValue.InvalidModuleIDAndInstanceTypeConfigID	The `ModuleId` and `InstanceType` parameters cannot be both empty.
InvalidParameterValue.InvalidModuleIDAndInstanceTypeID	The `ModuleId` and `InstanceType` parameters cannot be both empty.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidSecurityGroupID	The security group ID is invalid.
InvalidParameterValue.InvalidSystemDiskSize	The system disk size is invalid.
InvalidParameterValue.InvalidSystemDiskType	The system disk type is invalid.
InvalidParameterValue.InvalidZone	The zone is invalid.
InvalidParameterValue.InvalidZoneInstanceCount	The city or quantity is invalid.
InvalidParameterValue.InvalidZoneInstanceType	This model is not supported in the AZ.
InvalidParameterValue.NodeNotSupportIPv6	The node does not support IPv6.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.

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InvalidParameterValue.SubnetNotExist	
InvalidParameterValue.TooLong	The parameter value is too long.
InvalidParameterValue.UnmatchedBillingType	The model does not support the selected billing mode.
InvalidParameterValue.UserNotSupportIPv6	IPv6 is not supported.
LimitExceeded.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
LimitExceeded.EniQuotaLimitExceeded	The number of purchasable ENIs is insufficient.
LimitExceeded.InstanceSecurityGroupLimitExceeded	The number of security groups bound to the instance exceeds the limit.
LimitExceeded.NicOrIPLimitExceeded	The number of ENIs or public IPs exceeds the limit specified by the CPU.
LimitExceeded.SecurityGroupInstanceLimitExceeded	The number of instances bound to the security group exceeds the limit.
LimitExceeded.VcpuLimitExceeded	The number of CPU cores applied for exceeds the limit.
ResourceInUse	The resource is in use.
ResourceInsufficient.IPQuotaNotEnough	Insufficient IP resource.
ResourceInsufficient.InstanceQuotaNotEnough	The instance resource is insufficient.
ResourceInsufficient.PrivateIPQuotaNotEnough	
ResourceNotFound	The resource does not exist.
ResourcesSoldOut.SpecifiedInstanceType	
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.InstanceTypeNotSupportImage	The current model does not support the selected image.

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StopInstances

Last updated：2023-08-18 14:28:07

1. API Description

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

Only instances in `RUNNING` status can be shut down.
The instance status will become `STOPPING` when the API is called successfully and will become `STOPPED` when the instance is shut down successfully.
Forced shutdown is supported. Just like powering off a physical PC, a forced shutdown may cause data loss or file system corruption. Make sure that you use this API only when the server cannot be shut down normally.

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

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the 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: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	List of IDs of the instances to be shut down. You can request up to 100 instances in a region at a time.
ForceStop	No	Boolean	Whether to force shut down the instance after it failed to be shut down normally. Default value: false: no.
StopType	No	String	Instance shutdown mode. Valid values:

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			SOFT_FIRST: perform a forced shutdown in case of a failure of the normal shutdown; HARD: forced shutdown; SOFT: Soft shutdown; Default value: SOFT.

3. Output Parameters

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

4. Example

Example1 Shutting down instance

This example shows you how to shut down an instance.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=StopInstances
&InstanceIdSet.0=ein-496721al
&InstanceIdSet.1=ein-438242bp
&ForceStop=false
&StopType=SOFT_FIRST
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d40cdb72-7bc0-4b48-b3aa-25e8401f6999"
}
}
```

5. Developer Resources

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SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InstanceOwnerCheckFailed	The instance does not belong to the current module.
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvaildModifyParam	The parameter is incorrect.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
ResourceUnavailable.InstanceNotRunning	The instance is not running.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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StartInstances

Last updated：2023-08-18 14:28:07

1. API Description

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

This API is used to start an instance. Only instances in `STOPPED` status can be started. The instance status will become `STARTING` when this API is called successfully and will become `RUNNING` when the instance is started successfully.

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

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

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the 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: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	List of IDs of the instances to be started. You can request up to 100 instances in a region at a time.

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Starting instance

This example shows you how to start an instance.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=StartInstances
&InstanceIdSet.0=ein-496205jl
&InstanceIdSet.1=ein-495103ka
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "gb348fj3-03g7-4ss0-a6lr-78e2322a6594"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InstanceNotAllStopped	Not all instances are shut down.
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InternalError	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
OperationDenied.InstanceOperationInProgress	The current operation is not allowed.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ResetInstancesPassword

Last updated：2023-08-18 14:28:07

1. API Description

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

This API is used to reset the password for a running status. You need to explicitly specify the `ForceStop` parameter; otherwise, you can reset the password only for instances that have been shut down.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResetInstancesPassword.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdSet.N	Yes	Array of String	List of IDs of the instances for which to set the password. You can request up to 100 instances in a region at a time.
Password	Yes	String	New password. The password of a Linux instance must contain 8–16 characters in at least two of the following character types: letters, digits, and special symbols [( ) ~ ~ ! @ # $ % ^ & * - + = _ | { } [ ] : ; ' < > , . ? /] and cannot start with `/` . The password of a Windows instance must contain 12–16 characters in at least three of the following character types:

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			letters, digits, and special symbols [( ) ~ ~ ! @ # $ % ^ & * - + = _ | { } [ ] : ; ' < > , . ? /] and cannot start with `/` . If the instances include both Linux instances and Windows instances, the password complexity limit for Windows instances will apply.
ForceStop	No	Boolean	Whether to force shut down. Default value: false.
UserName	No	String	Username of the instance for which to reset the password, which can contain up to 64 characters. If this parameter is not specified, the password of the root user will be reset by default for Linux, and the password of the admin will be reset by default for Windows.

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.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ResetInstancesPassword
&InstanceIdSet.0=ein-356531dd
&InstanceIdSet.1=ein-583021kl
&ForceStop=false
&UserName=root
&Password=cptbtptpA@1095
&<Common request parameters>
```

Output Example

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

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```
"RequestId": "2b719fb1-2f5f-4a2c-bd52-a80b7ca7984c"
}
}
```

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.InstanceNotAllStopped	Not all instances are shut down.
FailedOperation.InstanceOwnerCheckFailed	The instance does not belong to the current module.
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvaildModifyParam	The parameter is incorrect.

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InvalidParameterValue.InvaildPassword	The password is invalid.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeInstanceVncUrl

Last updated：2023-08-18 14:28:09

1. API Description

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

This API is used to query the VNC URL 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: DescribeInstanceVncUrl.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID, which can be obtained from the `InstanceId` field in the returned value of the `DescribeInstances` API.

3. Output Parameters

Parameter Name	Type	Description
InstanceVncUrl	String	Instance VNC URL.

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

4. Example

Example1 Querying the VNC URL of instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeInstanceVncUrl
&InstanceId=ein-r9hr2upy
&<Common request parameters>
```

Output Example


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


5. Developer Resources

SDK

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6. Error Code

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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
MissingParameter.MissingInstancesParameter	The instance operation parameters are incomplete.
OperationDenied.InstanceOperationInProgress	The current operation is not allowed.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidInstanceState	This operation cannot be performed in the current status.

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DisassociateSecurityGroups

Last updated：2023-08-18 14:28:09

1. API Description

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

This API is used to unbind a security group.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DisassociateSecurityGroups.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupIds.N	Yes	Array of String	ID of the security group to be unbound, such as `esg-efil73jd` . You can unbind only one security group at a time.
InstanceIds.N	Yes	Array of String	ID of the instance to be unbound, such as `ein-lesecurk` . You can specify multiple instances.

3. Output Parameters

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

4. Example

Example1 Unbinding instance from security group

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DisassociateSecurityGroups
&InstanceIds.0=ein-2zvpghhc
&InstanceIds.1=ein-915zrb0p
&SecurityGroupIds.0=esg-9id3l839
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "3385dcf2-e1f0-4ed8-a924-c296721ab65f"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
MissingParameter	The parameter is missing.

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AssociateSecurityGroups

Last updated：2023-08-18 14:28:10

1. API Description

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

This API is used to bind a security group.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: AssociateSecurityGroups.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupIds.N	Yes	Array of String	ID of the security group to be bound, such as `esg-efil73jd` . You can bind only one security group.
InstanceIds.N	Yes	Array of String	ID of the bound instance, such as `ein-lesecurk` . You can specify multiple instances and request up to 100 instances at a time.

3. Output Parameters

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

4. Example

Example1 Binding multiple instances to one security group

Input Example

```
https://ecm.tencentcloudapi.com/?Action=AssociateSecurityGroups
&InstanceIds.0=ein-2zvpghhc
&InstanceIds.1=ein-915zrb0p
&SecurityGroupIds.0=esg-9id3l839
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "3385dcf2-e1f0-4ed8-a924-c296721ab65f"
}
}
```

5. Developer Resources

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
LimitExceeded.SecurityGroupInstanceLimitExceeded	The number of instances bound to the security group exceeds the limit.
MissingParameter	The parameter is missing.

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DescribePriceRunInstance

Last updated：2023-08-18 14:28:09

1. API Description

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

This API is used to query the price 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: DescribePriceRunInstance.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceType	Yes	String	Instance model information
SystemDisk	Yes	SystemDisk	System disk information
InstanceCount	Yes	Integer	Number of instances
DataDisk.N	No	Array of DataDisk	Data disk information
InstanceChargeType	No	Integer	Instance billing type. Valid values:

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			`0` : Bill by daily resource usage peak (CPU, memory, and disk). It applies only to non-GNR models; `1` : Bill by usage hours of an instance. It applies only to GNR models. It's available to beta users now. To enable it, submit a ticket; `2` : Bill by usage month of an instance. It applies only to GNR models. If this field is left empty, `0` is selected by default for non-GNR models, and `2` is selected by default for GNR models.

3. Output Parameters

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

4. Example

Example1 Querying instance price

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribePriceRunInstance
&InstanceType="SN3ne.LARGE8"
&InstanceCount=2
&SystemDisk.DiskType="234"
&SystemDisk.DiskId="123"
&SystemDisk.DiskSize=50
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "testreq.1634816636",
"InstancePrice": {
```

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```
"InstancePricesPartDetail": {
"DisksPrice": {
"OriginalPrice": 116,
"DiscountPrice": 75,
"Discount": 64
},
"MemPrice": {
"OriginalPrice": 8106,
"DiscountPrice": 5269,
"Discount": 65
},
"CpuPrice": {
"OriginalPrice": 12800,
"DiscountPrice": 8320,
"Discount": 65
}
},
"OriginalPrice": 21023,
"DiscountPrice": 13665,
"Discount": 65
}
}
}
```


5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

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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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidInstanceTypeConfigID	The model ID is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidSystemDiskSize	The system disk size is invalid.
InvalidParameterValue.InvalidSystemDiskType	The system disk type is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeInstances

Last updated：2023-08-18 14:28:09

1. API Description

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

This API is used to get the information of an instance.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeInstances.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
Filters.N	No	Array of Filter	Filter. zone String Required: no (Filter) Filter by AZ abbreviation. zone-name String Required: no (Filter) Filter by AZ name. Fuzzy match is supported. module-id String Required: no (Filter) Filter by module ID. instance-id String Required: no (Filter) Filter by instance ID. instance-name String Required: no (Filter) Filter by instance name. Fuzzy match is supported. ip-address String Required: no (Filter) Filter by the instance's private/public IP. instance-uuid string Required: no (Filter) Filter instances by

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			`uuid` . instance-state string Required: no (Filter) Update instances by instance status. internet-service-provider String Required: no (Filter) Filter by the ISP of the instance's public IP. tag-key String Required: no (Filter) Filter by tag key. tag:tag-key String Required: no (Filter) Filter by tag key-value pair. Replace `tag-key` with the specific tag key. instance-family String Required: no (Filter) Filter by model family. module-name String Required: no (Filter) Filter by module name. Fuzzy match is supported. image-id String Required: no (Filter) Filter by instance image ID. vpc-id String Required: no (Filter) Filter by instance VPC ID. subnet-id String Required: no (Filter) Filter by instance subnet ID. If the `Filters` parameter is not specified, the information of all relevant instances will be queried. Each request can contain up to 5 `Filter.Values` .
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20 (if the number of query results is greater than or equal to 20). Maximum value: 100.
OrderByField	No	String	Specified sort by field. Currently, valid values are as follows: timestamp: sort by instance creation time. Note: you can sort only by creation time currently. More sort criteria may be supported in the future. If this parameter is not specified, instances will be sorted by creation time by default.
OrderDirection	No	Integer	Sorting order. 0: descending; 1: ascending. If this parameter is not specified, it will be descending by default.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Length of the list of the returned instance information.
InstanceSet	Array of Instance	List of the returned instance information. Note: this field may return null, indicating that no valid values can be obtained.

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

4. Example

Example1 Getting instance information based on filters

This example shows you how to get the information of an instance based on specified filters.

Input Example

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

Output Example

```
{
"Response": {
"RequestId": "",
"InstanceSet": [
{
"DataDiskSize": 0,
"RestrictState": "NORMAL",
"InstanceId": "ein-bb0ab3pc",
"ISP": "CTCC",
"SecurityGroupIds": [],
"SystemDisk": {
"DiskType": "LOCAL_BASIC",
"DiskId": "ldisk-91p8tj1p",
"DiskSize": 50
},
"ExpireTime": "2020-09-27 16:13:51",
"TagSet": null,
"SimpleModule": {
"ModuleId": "em-5wrpefy1",
"ModuleName": "jiaxuan"
},
"DataDisks": null,
"LatestOperationState": "SUCCESS",
"UUID": "3c3e605a-33a0-41ca-9251-5f115a531c3e",
"SystemDiskSize": 50,
"InstanceTypeConfig": {
"Frequency": "2.5 GHz",
"InstanceType": "SN3ne.2XLARGE16",
```

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```
"Vcpu": 8,
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard SN3ne",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyTypeName": "Standard",
"InstanceFamilyType": "S"
},
"CpuModelName": "Intel Xeon Skylake 6133",
"Memory": 16,
"ExtInfo": ""
},
"RenewFlag": 0,
"VirtualPrivateCloud": {
"PrivateIpAddresses": [
"10.11.12.6"
],
"VpcId": "vpc-95ytv1vr",
"AsVpcGateway": false,
"SubnetId": "subnet-fua8fff8",
"Ipv6AddressCount": 0
},
"IsolatedTime": "2020-09-27 16:13:51",
"InstanceName": "jiaxuan binhai_do not delete 2",
"Position": {
"ZoneInfo": {
"ZoneId": 12000001,
"Zone": "ap-bhmini-ecm-1",
"ZoneName": "Tencent Binhai Zone"
},
"Country": {
"CountryName": "China",
"CountryId": "china"
},
"Area": {
"AreaName": "South China",
"AreaId": "china-south"
},
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
"City": {
"CityName": "Shenzhen",
"CityId": "china-south-guangdong-shenzhen"
},
```


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```
"RegionInfo": {
"RegionId": 0,
"Region": "ap-bhmini-ecm",
"RegionName": "Tencent Binhai Zone"
}
},
"CreateTime": "2020-09-27 16:13:51",
"Image": {
"SrcImage": {
"InstanceName": "",
"InstanceId": "",
"ImageOsName": "centos_test",
"ImageId": "img-test",
"ImageName": "centos",
"RegionID": 20,
"RegionName": "Shanghai",
"ImageType": "",
"ImageDescription": "info_test",
"Region": "ap-shanghai"
},
"ImageOsName": "CentOS 7.6 64-bit",
"ImageId": "img-9qabwvbn",
"Platform": "CentOS",
"ImageName": "CentOS 7.6 64-bit",
"ImageCreateTime": "",
"ImageOwner": 0,
"ImageSource": "OFFICIAL",
"ImageType": "PUBLIC_IMAGE",
"OsType": "linux",
"OsVersion": "7.6.0",
"ImageState": "NORMAL",
"ImageDescription": "CentOS 7.6 64-bit",
"Architecture": "x86_64",
"ImageSize": 50
},
"InstanceState": "RUNNING",
"Internet": {
"InstanceNetworkInfoSet": [
{
"Primary": true,
"NetworkInterfaceId": "eni-m5gnw3tv",
"NetworkInterfaceName": "ein-bb0ab3pc Primary ENI",
"AddressInfoSet": [
{
"PublicIPAddressInfo": {
"PublicIPAddress": "118.126.126.23",
"ISP": {
```


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```
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 25,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
},
"PrivateIPAddressInfo": {
"PrivateIPAddress": "10.11.12.6"
}
}
]
}
],
"PrivateIPAddressSet": [
{
"PrivateIPAddress": "10.11.12.6"
}
],
"PublicIPAddressSet": [
{
"PublicIPAddress": "118.126.126.23",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 25,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
}
]
},
"NewFlag": 0,
"ExpireState": "NORMAL",
"PayMode": 0,
"LatestOperation": "ResetInstancesPassword"
},
{
"DataDiskSize": 0,
"RestrictState": "NORMAL",
"InstanceId": "ein-b6kee4dg",
"ISP": "CTCC",
"SecurityGroupIds": [],
"SystemDisk": {
"DiskType": "LOCAL_BASIC",
"DiskId": "ldisk-9tvkpn8p",
"DiskSize": 50
```


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```
},
"ExpireTime": "2020-09-27 16:12:24",
"TagSet": null,
"SimpleModule": {
"ModuleId": "em-xgi6r1hk",
"ModuleName": "Video V8-cedricliu"
},
"DataDisks": null,
"LatestOperationState": "SUCCESS",
"UUID": "edf97143-b1e3-43d9-b34b-cfcf3fba1820",
"SystemDiskSize": 50,
"InstanceTypeConfig": {
"Frequency": "2.5 GHz",
"InstanceType": "SN3ne.4XLARGE32",
"Vcpu": 16,
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard SN3ne",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyTypeName": "Standard",
"InstanceFamilyType": "S"
},
"CpuModelName": "Intel Xeon Skylake 6133",
"Memory": 32,
"ExtInfo": ""
},
"RenewFlag": 0,
"VirtualPrivateCloud": {
"PrivateIpAddresses": [
"10.11.12.17"
],
"VpcId": "vpc-95ytv1vr",
"AsVpcGateway": false,
"SubnetId": "subnet-fua8fff8",
"Ipv6AddressCount": 0
},
"IsolatedTime": "2020-09-27 16:12:24",
"InstanceName": "jiaxuan binhai server_do not delete 2",
"Position": {
"ZoneInfo": {
"ZoneId": 12000001,
"Zone": "ap-bhmini-ecm-1",
"ZoneName": "Tencent Binhai Zone"
},
"Country": {
"CountryName": "China",
```


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```
"CountryId": "china"
},
"Area": {
"AreaName": "South China",
"AreaId": "china-south"
},
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
"City": {
"CityName": "Shenzhen",
"CityId": "china-south-guangdong-shenzhen"
},
"RegionInfo": {
"RegionId": 0,
"Region": "ap-bhmini-ecm",
"RegionName": "Tencent Binhai Zone"
}
},
"CreateTime": "2020-09-27 16:12:24",
"Image": {
"SrcImage": {
"InstanceName": "",
"InstanceId": "",
"ImageOsName": "centos_test",
"ImageId": "img-test",
"ImageName": "centos",
"RegionID": 20,
"RegionName": "Shanghai",
"ImageType": "",
"ImageDescription": "info_test",
"Region": "ap-shanghai"
},
"ImageOsName": "CentOS 7.6 64-bit",
"ImageId": "img-9qabwvbn",
"Platform": "CentOS",
"ImageName": "CentOS 7.6 64-bit",
"ImageCreateTime": "",
"ImageOwner": 0,
"ImageSource": "OFFICIAL",
"ImageType": "PUBLIC_IMAGE",
"OsType": "linux",
"OsVersion": "7.6.0",
"ImageState": "NORMAL",
"ImageDescription": "CentOS 7.6 64-bit",
"Architecture": "x86_64",
```


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```
"ImageSize": 50
},
"InstanceState": "RUNNING",
"Internet": {
"InstanceNetworkInfoSet": [
{
"Primary": true,
"NetworkInterfaceId": "eni-mhym6o89",
"NetworkInterfaceName": "ein-b6kee4dg Primary ENI",
"AddressInfoSet": [
{
"PublicIPAddressInfo": {
"PublicIPAddress": "118.126.126.27",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
},
"PrivateIPAddressInfo": {
"PrivateIPAddress": "10.11.12.17"
}
}
]
}
],
"PrivateIPAddressSet": [
{
"PrivateIPAddress": "10.11.12.17"
}
],
"PublicIPAddressSet": [
{
"PublicIPAddress": "118.126.126.27",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
}
]
},
"NewFlag": 0,
```


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```
"ExpireState": "NORMAL",
"PayMode": 0,
"LatestOperation": "ResetInstancesPassword"
},
{
"DataDiskSize": 0,
"RestrictState": "NORMAL",
"InstanceId": "ein-5uhtyyps",
"ISP": "CTCC",
"SecurityGroupIds": [],
"SystemDisk": {
"DiskType": "LOCAL_BASIC",
"DiskId": "ldisk-0fqlcnj7",
"DiskSize": 50
},
"ExpireTime": "2020-09-27 16:12:24",
"TagSet": null,
"SimpleModule": {
"ModuleId": "em-xgi6r1hk",
"ModuleName": "Video V8-cedricliu"
},
"DataDisks": null,
"LatestOperationState": "SUCCESS",
"UUID": "e85e02fb-8efd-4728-a3d7-10cf913ed4e5",
"SystemDiskSize": 50,
"InstanceTypeConfig": {
"Frequency": "2.5 GHz",
"InstanceType": "SN3ne.4XLARGE32",
"Vcpu": 16,
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard SN3ne",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyTypeName": "Standard",
"InstanceFamilyType": "S"
},
"CpuModelName": "Intel Xeon Skylake 6133",
"Memory": 32,
"ExtInfo": ""
},
"RenewFlag": 0,
"VirtualPrivateCloud": {
"PrivateIpAddresses": [
"10.11.12.4"
],
"VpcId": "vpc-95ytv1vr",
```


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```
"AsVpcGateway": false,
"SubnetId": "subnet-fua8fff8",
"Ipv6AddressCount": 0
},
"IsolatedTime": "2020-09-27 16:12:24",
"InstanceName": "jiaxuan binhai server_do not delete 1",
"Position": {
"ZoneInfo": {
"ZoneId": 12000001,
"Zone": "ap-bhmini-ecm-1",
"ZoneName": "Tencent Binhai Zone"
},
"Country": {
"CountryName": "China",
"CountryId": "china"
},
"Area": {
"AreaName": "South China",
"AreaId": "china-south"
},
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
"City": {
"CityName": "Shenzhen",
"CityId": "china-south-guangdong-shenzhen"
},
"RegionInfo": {
"RegionId": 0,
"Region": "ap-bhmini-ecm",
"RegionName": "Tencent Binhai Zone"
}
},
"CreateTime": "2020-09-27 16:12:24",
"Image": {
"SrcImage": {
"InstanceName": "",
"InstanceId": "",
"ImageOsName": "centos_test",
"ImageId": "img-test",
"ImageName": "centos",
"RegionID": 20,
"RegionName": "Shanghai",
"ImageType": "",
"ImageDescription": "info_test",
"Region": "ap-shanghai"
```


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```
},
"ImageOsName": "CentOS 7.6 64-bit",
"ImageId": "img-9qabwvbn",
"Platform": "CentOS",
"ImageName": "CentOS 7.6 64-bit",
"ImageCreateTime": "",
"ImageOwner": 0,
"ImageSource": "OFFICIAL",
"ImageType": "PUBLIC_IMAGE",
"OsType": "linux",
"OsVersion": "7.6.0",
"ImageState": "NORMAL",
"ImageDescription": "CentOS 7.6 64-bit",
"Architecture": "x86_64",
"ImageSize": 50
},
"InstanceState": "RUNNING",
"Internet": {
"InstanceNetworkInfoSet": [
{
"Primary": true,
"NetworkInterfaceId": "eni-i7nvrvbj",
"NetworkInterfaceName": "ein-5uhtyyps Primary ENI",
"AddressInfoSet": [
{
"PublicIPAddressInfo": {
"PublicIPAddress": "118.126.126.39",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
},
"PrivateIPAddressInfo": {
"PrivateIPAddress": "10.11.12.4"
}
}
]
}
],
"PrivateIPAddressSet": [
{
"PrivateIPAddress": "10.11.12.4"
}
],
```


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```
"PublicIPAddressSet": [
{
"PublicIPAddress": "118.126.126.39",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
}
]
},
"NewFlag": 0,
"ExpireState": "NORMAL",
"PayMode": 0,
"LatestOperation": "ResetInstancesPassword"
}
],
"TotalCount": 3
}
}
```


Example2 Querying the two most recent instances by creation time in reverse order

This example shows you how to get the information of an instance based on specified filters.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeInstances
&OrderByField=timestamp
&OrderDirection=0
&Limit=2
&<Common request parameters>
```

Output Example


```
{
"Response": {
"RequestId": "",
"InstanceSet": [
{
"DataDiskSize": 0,
"RestrictState": "NORMAL",
"InstanceId": "ein-bb0ab3pc",
"ISP": "CTCC",
```


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```
"SecurityGroupIds": [],
"SystemDisk": {
"DiskType": "LOCAL_BASIC",
"DiskId": "ldisk-91p8tj1p",
"DiskSize": 50
},
"ExpireTime": "2020-09-27 16:13:51",
"TagSet": null,
"SimpleModule": {
"ModuleId": "em-5wrpefy1",
"ModuleName": "jiaxuan"
},
"DataDisks": null,
"LatestOperationState": "SUCCESS",
"UUID": "3c3e605a-33a0-41ca-9251-5f115a531c3e",
"SystemDiskSize": 50,
"InstanceTypeConfig": {
"Frequency": "2.5 GHz",
"InstanceType": "SN3ne.2XLARGE16",
"Vcpu": 8,
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard SN3ne",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyTypeName": "Standard",
"InstanceFamilyType": "S"
},
"CpuModelName": "Intel Xeon Skylake 6133",
"Memory": 16,
"ExtInfo": ""
},
"RenewFlag": 0,
"VirtualPrivateCloud": {
"PrivateIpAddresses": [
"10.11.12.6"
],
"VpcId": "vpc-95ytv1vr",
"AsVpcGateway": false,
"SubnetId": "subnet-fua8fff8",
"Ipv6AddressCount": 0
},
"IsolatedTime": "2020-09-27 16:13:51",
"InstanceName": "jiaxuan binhai_do not delete 2",
"Position": {
"ZoneInfo": {
"ZoneId": 12000001,
```


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```
"Zone": "ap-bhmini-ecm-1",
"ZoneName": "Tencent Binhai Zone"
},
"Country": {
"CountryName": "China",
"CountryId": "china"
},
"Area": {
"AreaName": "South China",
"AreaId": "china-south"
},
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
"City": {
"CityName": "Shenzhen",
"CityId": "china-south-guangdong-shenzhen"
},
"RegionInfo": {
"RegionId": 0,
"Region": "ap-bhmini-ecm",
"RegionName": "Tencent Binhai Zone"
}
},
"CreateTime": "2020-09-27 16:13:51",
"Image": {
"SrcImage": {
"InstanceName": "",
"InstanceId": "",
"ImageOsName": "centos_test",
"ImageId": "img-test",
"ImageName": "centos",
"RegionID": 20,
"RegionName": "Shanghai",
"ImageType": "",
"ImageDescription": "info_test",
"Region": "ap-shanghai"
},
"ImageOsName": "CentOS 7.6 64-bit",
"ImageId": "img-9qabwvbn",
"Platform": "CentOS",
"ImageName": "CentOS 7.6 64-bit",
"ImageCreateTime": "",
"ImageOwner": 0,
"ImageSource": "OFFICIAL",
"ImageType": "PUBLIC_IMAGE",
```


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```
"OsType": "linux",
"OsVersion": "7.6.0",
"ImageState": "NORMAL",
"ImageDescription": "CentOS 7.6 64-bit",
"Architecture": "x86_64",
"ImageSize": 50
},
"InstanceState": "RUNNING",
"Internet": {
"InstanceNetworkInfoSet": [
{
"Primary": true,
"NetworkInterfaceId": "eni-m5gnw3tv",
"NetworkInterfaceName": "ein-bb0ab3pc Primary ENI",
"AddressInfoSet": [
{
"PublicIPAddressInfo": {
"PublicIPAddress": "118.126.126.23",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 25,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
},
"PrivateIPAddressInfo": {
"PrivateIPAddress": "10.11.12.6"
}
}
]
}
],
"PrivateIPAddressSet": [
{
"PrivateIPAddress": "10.11.12.6"
}
],
"PublicIPAddressSet": [
{
"PublicIPAddress": "118.126.126.23",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 25,
"ChargeMode": "BANDWIDTH_PACKAGE",
```


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```
"MaxBandwidthIn": 0
}
]
},
"NewFlag": 0,
"ExpireState": "NORMAL",
"PayMode": 0,
"LatestOperation": "ResetInstancesPassword"
},
{
"DataDiskSize": 0,
"RestrictState": "NORMAL",
"InstanceId": "ein-b6kee4dg",
"ISP": "CTCC",
"SecurityGroupIds": [],
"SystemDisk": {
"DiskType": "LOCAL_BASIC",
"DiskId": "ldisk-9tvkpn8p",
"DiskSize": 50
},
"ExpireTime": "2020-09-27 16:12:24",
"TagSet": null,
"SimpleModule": {
"ModuleId": "em-xgi6r1hk",
"ModuleName": "Video V8-cedricliu"
},
"DataDisks": null,
"LatestOperationState": "SUCCESS",
"UUID": "edf97143-b1e3-43d9-b34b-cfcf3fba1820",
"SystemDiskSize": 50,
"InstanceTypeConfig": {
"Frequency": "2.5 GHz",
"InstanceType": "SN3ne.4XLARGE32",
"Vcpu": 16,
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard SN3ne",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyTypeName": "Standard",
"InstanceFamilyType": "S"
},
"CpuModelName": "Intel Xeon Skylake 6133",
"Memory": 32,
"ExtInfo": ""
},
"RenewFlag": 0,
```


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```
"VirtualPrivateCloud": {
"PrivateIpAddresses": [
"10.11.12.17"
],
"VpcId": "vpc-95ytv1vr",
"AsVpcGateway": false,
"SubnetId": "subnet-fua8fff8",
"Ipv6AddressCount": 0
},
"IsolatedTime": "2020-09-27 16:12:24",
"InstanceName": "jiaxuan binhai server_do not delete 2",
"Position": {
"ZoneInfo": {
"ZoneId": 12000001,
"Zone": "ap-bhmini-ecm-1",
"ZoneName": "Tencent Binhai Zone"
},
"Country": {
"CountryName": "China",
"CountryId": "china"
},
"Area": {
"AreaName": "South China",
"AreaId": "china-south"
},
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
"City": {
"CityName": "Shenzhen",
"CityId": "china-south-guangdong-shenzhen"
},
"RegionInfo": {
"RegionId": 0,
"Region": "ap-bhmini-ecm",
"RegionName": "Tencent Binhai Zone"
}
},
"CreateTime": "2020-09-27 16:12:24",
"Image": {
"SrcImage": {
"InstanceName": "",
"InstanceId": "",
"ImageOsName": "centos_test",
"ImageId": "img-test",
"ImageName": "centos",
```


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```
"RegionID": 20,
"RegionName": "Shanghai",
"ImageType": "",
"ImageDescription": "info_test",
"Region": "ap-shanghai"
},
"ImageOsName": "CentOS 7.6 64-bit",
"ImageId": "img-9qabwvbn",
"Platform": "CentOS",
"ImageName": "CentOS 7.6 64-bit",
"ImageCreateTime": "",
"ImageOwner": 0,
"ImageSource": "OFFICIAL",
"ImageType": "PUBLIC_IMAGE",
"OsType": "linux",
"OsVersion": "7.6.0",
"ImageState": "NORMAL",
"ImageDescription": "CentOS 7.6 64-bit",
"Architecture": "x86_64",
"ImageSize": 50
},
"InstanceState": "RUNNING",
"Internet": {
"InstanceNetworkInfoSet": [
{
"Primary": true,
"NetworkInterfaceId": "eni-mhym6o89",
"NetworkInterfaceName": "ein-b6kee4dg Primary ENI",
"AddressInfoSet": [
{
"PublicIPAddressInfo": {
"PublicIPAddress": "118.126.126.27",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
},
"PrivateIPAddressInfo": {
"PrivateIPAddress": "10.11.12.17"
}
}
]
}
],
```


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```
"PrivateIPAddressSet": [
{
"PrivateIPAddress": "10.11.12.17"
}
],
"PublicIPAddressSet": [
{
"PublicIPAddress": "118.126.126.27",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
}
]
},
"NewFlag": 0,
"ExpireState": "NORMAL",
"PayMode": 0,
"LatestOperation": "ResetInstancesPassword"
}
],
"TotalCount": 15
}
}
```

Example3 Querying instance by `vpc-id`

This example shows you how to get the information of an instance based on specified filters.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeInstances
&Filters.0.Name=vpc-id
&Filters.0.Values.0=vpc-ec3mnb4d
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "",
"InstanceSet": [
{
```

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```
"DataDiskSize": 0,
"RestrictState": "NORMAL",
"InstanceId": "ein-bb0ab3pc",
"ISP": "CTCC",
"SecurityGroupIds": [],
"SystemDisk": {
"DiskType": "LOCAL_BASIC",
"DiskId": "ldisk-91p8tj1p",
"DiskSize": 50
},
"ExpireTime": "2020-09-27 16:13:51",
"TagSet": null,
"SimpleModule": {
"ModuleId": "em-5wrpefy1",
"ModuleName": "jiaxuan"
},
"DataDisks": null,
"LatestOperationState": "SUCCESS",
"UUID": "3c3e605a-33a0-41ca-9251-5f115a531c3e",
"SystemDiskSize": 50,
"InstanceTypeConfig": {
"Frequency": "2.5 GHz",
"InstanceType": "SN3ne.2XLARGE16",
"Vcpu": 8,
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard SN3ne",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyTypeName": "Standard",
"InstanceFamilyType": "S"
},
"CpuModelName": "Intel Xeon Skylake 6133",
"Memory": 16,
"ExtInfo": ""
},
"RenewFlag": 0,
"VirtualPrivateCloud": {
"PrivateIpAddresses": [
"10.11.12.6"
],
"VpcId": "vpc-95ytv1vr",
"AsVpcGateway": false,
"SubnetId": "subnet-fua8fff8",
"Ipv6AddressCount": 0
},
"IsolatedTime": "2020-09-27 16:13:51",
```


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```
"InstanceName": "jiaxuan binhai_do not delete 2",
"Position": {
"ZoneInfo": {
"ZoneId": 12000001,
"Zone": "ap-bhmini-ecm-1",
"ZoneName": "Tencent Binhai Zone"
},
"Country": {
"CountryName": "China",
"CountryId": "china"
},
"Area": {
"AreaName": "South China",
"AreaId": "china-south"
},
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
"City": {
"CityName": "Shenzhen",
"CityId": "china-south-guangdong-shenzhen"
},
"RegionInfo": {
"RegionId": 0,
"Region": "ap-bhmini-ecm",
"RegionName": "Tencent Binhai Zone"
}
},
"CreateTime": "2020-09-27 16:13:51",
"Image": {
"SrcImage": {
"InstanceName": "",
"InstanceId": "",
"ImageOsName": "centos_test",
"ImageId": "img-test",
"ImageName": "centos",
"RegionID": 20,
"RegionName": "Shanghai",
"ImageType": "",
"ImageDescription": "info_test",
"Region": "ap-shanghai"
},
"ImageOsName": "CentOS 7.6 64-bit",
"ImageId": "img-9qabwvbn",
"Platform": "CentOS",
"ImageName": "CentOS 7.6 64-bit",
```


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```
"ImageCreateTime": "",
"ImageOwner": 0,
"ImageSource": "OFFICIAL",
"ImageType": "PUBLIC_IMAGE",
"OsType": "linux",
"OsVersion": "7.6.0",
"ImageState": "NORMAL",
"ImageDescription": "CentOS 7.6 64-bit",
"Architecture": "x86_64",
"ImageSize": 50
},
"InstanceState": "RUNNING",
"Internet": {
"InstanceNetworkInfoSet": [
{
"Primary": true,
"NetworkInterfaceId": "eni-m5gnw3tv",
"NetworkInterfaceName": "ein-bb0ab3pc Primary ENI",
"AddressInfoSet": [
{
"PublicIPAddressInfo": {
"PublicIPAddress": "118.126.126.23",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 25,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
},
"PrivateIPAddressInfo": {
"PrivateIPAddress": "10.11.12.6"
}
}
]
}
],
"PrivateIPAddressSet": [
{
"PrivateIPAddress": "10.11.12.6"
}
],
"PublicIPAddressSet": [
{
"PublicIPAddress": "118.126.126.23",
"ISP": {
"ISPName": "China Telecom",
```


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```
"ISPId": "CTCC"
},
"MaxBandwidthOut": 25,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
}
]
},
"NewFlag": 0,
"ExpireState": "NORMAL",
"PayMode": 0,
"LatestOperation": "ResetInstancesPassword"
},
{
"DataDiskSize": 0,
"RestrictState": "NORMAL",
"InstanceId": "ein-b6kee4dg",
"ISP": "CTCC",
"SecurityGroupIds": [],
"SystemDisk": {
"DiskType": "LOCAL_BASIC",
"DiskId": "ldisk-9tvkpn8p",
"DiskSize": 50
},
"ExpireTime": "2020-09-27 16:12:24",
"TagSet": null,
"SimpleModule": {
"ModuleId": "em-xgi6r1hk",
"ModuleName": "Video V8-cedricliu"
},
"DataDisks": null,
"LatestOperationState": "SUCCESS",
"UUID": "edf97143-b1e3-43d9-b34b-cfcf3fba1820",
"SystemDiskSize": 50,
"InstanceTypeConfig": {
"Frequency": "2.5 GHz",
"InstanceType": "SN3ne.4XLARGE32",
"Vcpu": 16,
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard SN3ne",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyTypeName": "Standard",
"InstanceFamilyType": "S"
},
"CpuModelName": "Intel Xeon Skylake 6133",
```


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```
"Memory": 32,
"ExtInfo": ""
},
"RenewFlag": 0,
"VirtualPrivateCloud": {
"PrivateIpAddresses": [
"10.11.12.17"
],
"VpcId": "vpc-95ytv1vr",
"AsVpcGateway": false,
"SubnetId": "subnet-fua8fff8",
"Ipv6AddressCount": 0
},
"IsolatedTime": "2020-09-27 16:12:24",
"InstanceName": "jiaxuan binhai server_do not delete 2",
"Position": {
"ZoneInfo": {
"ZoneId": 12000001,
"Zone": "ap-bhmini-ecm-1",
"ZoneName": "Tencent Binhai Zone"
},
"Country": {
"CountryName": "China",
"CountryId": "china"
},
"Area": {
"AreaName": "South China",
"AreaId": "china-south"
},
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
"City": {
"CityName": "Shenzhen",
"CityId": "china-south-guangdong-shenzhen"
},
"RegionInfo": {
"RegionId": 0,
"Region": "ap-bhmini-ecm",
"RegionName": "Tencent Binhai Zone"
}
},
"CreateTime": "2020-09-27 16:12:24",
"Image": {
"SrcImage": {
"InstanceName": "",
```


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```
"InstanceId": "",
"ImageOsName": "centos_test",
"ImageId": "img-test",
"ImageName": "centos",
"RegionID": 20,
"RegionName": "Shanghai",
"ImageType": "",
"ImageDescription": "info_test",
"Region": "ap-shanghai"
},
"ImageOsName": "CentOS 7.6 64-bit",
"ImageId": "img-9qabwvbn",
"Platform": "CentOS",
"ImageName": "CentOS 7.6 64-bit",
"ImageCreateTime": "",
"ImageOwner": 0,
"ImageSource": "OFFICIAL",
"ImageType": "PUBLIC_IMAGE",
"OsType": "linux",
"OsVersion": "7.6.0",
"ImageState": "NORMAL",
"ImageDescription": "CentOS 7.6 64-bit",
"Architecture": "x86_64",
"ImageSize": 50
},
"InstanceState": "RUNNING",
"Internet": {
"InstanceNetworkInfoSet": [
{
"Primary": true,
"NetworkInterfaceId": "eni-mhym6o89",
"NetworkInterfaceName": "ein-b6kee4dg Primary ENI",
"AddressInfoSet": [
{
"PublicIPAddressInfo": {
"PublicIPAddress": "118.126.126.27",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
},
"PrivateIPAddressInfo": {
"PrivateIPAddress": "10.11.12.17"
}
```


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```
}
]
}
],
"PrivateIPAddressSet": [
{
"PrivateIPAddress": "10.11.12.17"
}
],
"PublicIPAddressSet": [
{
"PublicIPAddress": "118.126.126.27",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
}
]
},
"NewFlag": 0,
"ExpireState": "NORMAL",
"PayMode": 0,
"LatestOperation": "ResetInstancesPassword"
},
{
"DataDiskSize": 0,
"RestrictState": "NORMAL",
"InstanceId": "ein-5uhtyyps",
"ISP": "CTCC",
"SecurityGroupIds": [],
"SystemDisk": {
"DiskType": "LOCAL_BASIC",
"DiskId": "ldisk-0fqlcnj7",
"DiskSize": 50
},
"ExpireTime": "2020-09-27 16:12:24",
"TagSet": null,
"SimpleModule": {
"ModuleId": "em-xgi6r1hk",
"ModuleName": "Video V8-cedricliu"
},
"DataDisks": null,
"LatestOperationState": "SUCCESS",
"UUID": "e85e02fb-8efd-4728-a3d7-10cf913ed4e5",
```


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```
"SystemDiskSize": 50,
"InstanceTypeConfig": {
"Frequency": "2.5 GHz",
"InstanceType": "SN3ne.4XLARGE32",
"Vcpu": 16,
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard SN3ne",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyTypeName": "Standard",
"InstanceFamilyType": "S"
},
"CpuModelName": "Intel Xeon Skylake 6133",
"Memory": 32,
"ExtInfo": ""
},
"RenewFlag": 0,
"VirtualPrivateCloud": {
"PrivateIpAddresses": [
"10.11.12.4"
],
"VpcId": "vpc-95ytv1vr",
"AsVpcGateway": false,
"SubnetId": "subnet-fua8fff8",
"Ipv6AddressCount": 0
},
"IsolatedTime": "2020-09-27 16:12:24",
"InstanceName": "jiaxuan binhai server_do not delete 1",
"Position": {
"ZoneInfo": {
"ZoneId": 12000001,
"Zone": "ap-bhmini-ecm-1",
"ZoneName": "Tencent Binhai Zone"
},
"Country": {
"CountryName": "China",
"CountryId": "china"
},
"Area": {
"AreaName": "South China",
"AreaId": "china-south"
},
"Province": {
"ProvinceId": "china-south-guangdong",
"ProvinceName": "Guangdong"
},
```


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```
"City": {
"CityName": "Shenzhen",
"CityId": "china-south-guangdong-shenzhen"
},
"RegionInfo": {
"RegionId": 0,
"Region": "ap-bhmini-ecm",
"RegionName": "Tencent Binhai Zone"
}
},
"CreateTime": "2020-09-27 16:12:24",
"Image": {
"SrcImage": {
"InstanceName": "",
"InstanceId": "",
"ImageOsName": "centos_test",
"ImageId": "img-test",
"ImageName": "centos",
"RegionID": 20,
"RegionName": "Shanghai",
"ImageType": "",
"ImageDescription": "info_test",
"Region": "ap-shanghai"
},
"ImageOsName": "CentOS 7.6 64-bit",
"ImageId": "img-9qabwvbn",
"Platform": "CentOS",
"ImageName": "CentOS 7.6 64-bit",
"ImageCreateTime": "",
"ImageOwner": 0,
"ImageSource": "OFFICIAL",
"ImageType": "PUBLIC_IMAGE",
"OsType": "linux",
"OsVersion": "7.6.0",
"ImageState": "NORMAL",
"ImageDescription": "CentOS 7.6 64-bit",
"Architecture": "x86_64",
"ImageSize": 50
},
"InstanceState": "RUNNING",
"Internet": {
"InstanceNetworkInfoSet": [
{
"Primary": true,
"NetworkInterfaceId": "eni-i7nvrvbj",
"NetworkInterfaceName": "ein-5uhtyyps Primary ENI",
"AddressInfoSet": [
```


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```
{
"PublicIPAddressInfo": {
"PublicIPAddress": "118.126.126.39",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
},
"PrivateIPAddressInfo": {
"PrivateIPAddress": "10.11.12.4"
}
}
]
}
],
"PrivateIPAddressSet": [
{
"PrivateIPAddress": "10.11.12.4"
}
],
"PublicIPAddressSet": [
{
"PublicIPAddress": "118.126.126.39",
"ISP": {
"ISPName": "China Telecom",
"ISPId": "CTCC"
},
"MaxBandwidthOut": 105,
"ChargeMode": "BANDWIDTH_PACKAGE",
"MaxBandwidthIn": 0
}
]
},
"NewFlag": 0,
"ExpireState": "NORMAL",
"PayMode": 0,
"LatestOperation": "ResetInstancesPassword"
}
],
"TotalCount": 12
}
}
```


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5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvaildDescribeInstance	Your input is incorrect, or you have no permission for the operation.
InvalidParameterValue.InvaildPageParam	The pagination parameter is invalid.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.InvalidOrderByField	The sort field is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
ResourceNotFound.InstanceNotExist	The instance is invalid.

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UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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Image APIs
DescribeImage

Last updated：2023-08-18 15:47:45

1. API Description

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

This API is used to display the list of images.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeImage.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
Filters.N	No	Array of Filter	Filter. Each request can contain up to 10 `Filters` . The detailed filters are as follows: image-id - String - Required: no - (Filter) Filter by image ID. image-type - String - Required: no - (Filter) Filter by image type. Valid values: PRIVATE_IMAGE: private image created by the current account PUBLIC_IMAGE: public image created by Tencent Cloud instance-type -String - Required: no - (Filter) Filter supported images by model.

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			image-name - String - Required: no - (Filter) Fuzzy match by image name. You can provide only one value. image-os - String - Required: no - (Filter) Fuzzy match by image system name. You can provide only one value.
Offset	No	Integer	Offset. Default value: 0. For more information on `Offset` , see the relevant section of the API overview.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on `Limit` , see the relevant section of the API overview.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of images
ImageSet	Array of Image	Image array 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 Displaying image list

This example shows you how to display the list of images.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeImage
&Offset=0
&Limit=10
&Filters.0.Name=image-type
&Filters.0.Values.0=PRIVATE_IMAGE
&<Common request parameters>
```

Output Example

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```
{
"Response": {
"RequestId": "51e18e32-9bb8-4b1d-a7ac-92040fab2949",
"ImageSet": [
{
"ImageId": "img-060ov1xz",
"ImageName": "CentOS 6.9 32-bit",
"ImageState": "NORMAL",
"ImageType": "PRIVATE_IMAGE",
"ImageOwner": 251006057,
"ImageOsName": "CentOS 6.9 32-bit",
"ImageDescription": "CentOS 6.9 32-bit",
"Architecture": "i386",
"OsType": "CentOS",
"Platform": "",
"OsVersion": "CentOS 6.9 32-bit",
"ImageCreateTime": "2019-07-22 20:48:14",
"ImageSize": 50,
"ImageSource": "xx",
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"RegionName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
}
},
{
"ImageId": "img-1tyt4apn",
"ImageName": "CentOS 7.4 Bare Metal 64-bit",
"ImageState": "NORMAL",
"ImageType": "PRIVATE_IMAGE",
"ImageOwner": 251006057,
"ImageOsName": "CentOS 7.4 Bare Metal 64-bit",
"ImageDescription": "CentOS 7.4 Bare Metal 64-bit",
"Architecture": "x86_64",
"OsType": "CentOS",
"Platform": "",
"OsVersion": "CentOS 7.4 Bare Metal 64-bit",
"ImageCreateTime": "2019-07-22 20:48:14",
"ImageSize": 50,
```


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```
"ImageSource": "xx",
"SrcImage": {
"ImageDescription": "xx",
"InstanceId": "xx",
"Region": "xx",
"RegionID": 0,
"ImageId": "xx",
"ImageName": "xx",
"RegionName": "xx",
"InstanceName": "xx",
"ImageType": "xx",
"ImageOsName": "xx"
}
}
],
"TotalCount": 20
}
}
```


5. Developer Resources

SDK

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

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

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- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.ImageInUse	The image is in use.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvaildPageParam	The pagination parameter is invalid.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidImageID	The image ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
MissingParameter.MissingImageParameter	The image operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DeleteImage

Last updated：2023-08-18 14:28:11

1. API Description

Domain name for API request: ecm.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: DeleteImage.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ImageIDSet.N	Yes	Array of String	List of image IDs.

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Deleting image

This example shows you how to delete an image.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteImage
&ImageIDSet.0=img-pmqg1cw9
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "9a4420e4-b5e3-4c28-9d47-65d20f7f072f"
}
}
```

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.ImageInUse	The image is in use.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidImageID	The image ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ImportImage

Last updated：2023-08-18 14:28:10

1. API Description

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

This API is used to import an image from a CVM instance to an ECM 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: ImportImage.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ImageId	Yes	String	Image ID.
ImageDescription	Yes	String	Image description.
SourceRegion	Yes	String	Source region

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Importing image

This example shows you how to import an image.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ImportImage
&ImageId=img-pmqg1cw9
&ImageDescription=sampleImage
&SourceRegion=ap-chengdu
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "329ccbf5-be3c-4df4-9f17-0076bd2ba07e"
}
}
```

5. Developer Resources

SDK

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

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.ImageDuplicate	An image has already been imported.
InvalidParameterValue.ImageNameDuplicate	The image name is duplicate.
InvalidParameterValue.InvalidImageID	The image ID is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
InvalidParameterValue.UnsupportedRegion	The region is not supported.
MissingParameter.MissingImageParameter	The image operation parameters are incomplete.
ResourceInsufficient.InvaildPrivateImageNum	The number of private images exceeds the limit.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeImportImageOs

Last updated：2023-08-18 14:28:10

1. API Description

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

This API is used to query the list of operating systems supported by an image imported from an external resource.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeImportImageOs.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
ImportImageOsListSupported	ImageOsList	Supported OS types of imported images.
ImportImageOsVersionSet	Array of OsVersion	Supported OS versions of imported images.

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

4. Example

Example1 Querying the configuration information of OS supported by the imported image

Input Example

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

Output Example

```
{
"Response": {
"ImportImageOsListSupported": {
"Windows": [
"Windows Server 2008",
"Windows Server 2012",
"Windows Server 2016"
],
"Linux": [
"CentOS",
"Ubuntu",
"Debian",
"OpenSUSE",
"SUSE",
"CoreOS",
"FreeBSD",
"Other Linux"
]
},
"RequestId": "xx",
"ImportImageOsVersionSet": [
{
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
],
"OsVersions": [
"_"
]
```

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```
},
{
"OsVersions": [
"-"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"-"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"5",
"6",
"7"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"7"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"6",
"7",
```


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```
"8",
"9"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"10"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"5",
"6",
"7"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"11",
"12"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"10",
"11",
"12",
```


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```
"13"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"10",
"12",
"14",
"16"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
},
{
"OsVersions": [
"-"
],
"OsName": "xx",
"Architecture": [
"x86_64",
"i386"
]
}
]
}
}
```


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.

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DescribeCustomImageTask

Last updated：2023-08-18 14:28:11

1. API Description

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

This API is used to query an image import task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeCustomImageTask.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
Filters.N	Yes	Array of Filter	Supports querying by key and value. task-id: async task ID image-id: image ID image-name: image name

3. Output Parameters

Parameter	Type	Description

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Name		
ImageTaskSet	Array of ImageTask	Import task details Note: this field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying image import task

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeCustomImageTask
&Filters.0.Name=task-id
&Filters.0.Values.0=21
&<Common request parameters>
```

Output Example

```
{
"Response": {
"ImageTaskSet": [
{
"Message": "success",
"State": "SUCCESS",
"ImageName": "ecmtest",
"CreateTime": "2020-06-16 15:43:30"
}
],
"TotalCount": 1,
"RequestId": "854aeb35-e3e0-451d-87ad-b0894b99cea4"
}
}
```

5. Developer Resources

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SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
ResourceNotFound	The resource does not exist.

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ModifyImageAttribute

Last updated：2023-08-18 14:28:10

1. API Description

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

This API is used to modify the attributes of 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: ModifyImageAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ImageId	Yes	String	Image ID, such as `img-gvbnzy6f`
ImageName	No	String	Image name, which must meet the following requirements: It can contain up to 20 characters. - The image name cannot be the same as existing image names.
ImageDescription	No	String	Image description, which must meet the following requirements: - It cannot exceed 60 characters.

3. Output Parameters

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

4. Example

Example1 Modifying image attributes

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyImageAttribute
&ImageId=img-gvbnzy6f
&ImageName=test_name
&ImageDescription=test_description
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.ImageNameDuplicate	The image name is duplicate.
MissingParameter	The parameter is missing.
MissingParameter.MissingImageParameter	The image operation parameters are incomplete.
ResourceNotFound	The resource does not exist.

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CreateImage

Last updated：2023-08-18 14:28:11

1. API Description

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

This API is used to create an image with the system disk of an instance. The image can be used to create 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: CreateImage.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
ImageName	Yes	String	Image name.
InstanceId	Yes	String	ID of the instance for which to make an image.
ImageDescription	No	String	Image description.
ForcePoweroff	No	String	Whether to perform a forced shutdown to make an image. Valid values: TRUE: yes FALSE: no Default value: FALSE.

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3. Output Parameters

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

4. Example

Example1 Creating image

Input Example

```
https://ecm.tencentcloudapi.com/?Action=CreateImage
&InstanceId=ein-93sjjr8k
&ImageName=test_name
&ImageDescription=test_description
&ForcePoweroff=TRUE
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TaskId": "1528611",
"RequestId": "a3c3e99e-c4d7-11ea-ba2d-52540002f896"
}
}
```

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.InstanceNotAllStopped	Not all instances are shut down.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.ImageNameDuplicate	The image name is duplicate.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
MissingParameter	The parameter is missing.
MissingParameter.MissingImageParameter	The image operation parameters are incomplete.
ResourceInsufficient.InvaildPrivateImageNum	The number of private images exceeds the limit.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InstanceIdNotFound	The instance ID is invalid, as the specified instance ID does not exist.
UnsupportedOperation.InstanceIdNotSupported	The instance is not supported.

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UnsupportedOperation.InvalidInstanceState	This operation cannot be performed in the current status.

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VPC APIs
ModifyVpcAttribute

Last updated：2023-08-18 14:27:56

1. API Description

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

This API is used to modify the attributes of a VPC.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyVpcAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID, such as `vpc-f49l6u0z` .
EcmRegion	Yes	String	ECM region
VpcName	No	String	VPC name, which can be customized with up to 60 characters.
Tags.N	No	Array of Tag	Tags

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Description	No	String	VPC description

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 VPC name and description

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyVpcAttribute
&VpcName=VPC name
&VpcId=vpc-vpc-q6cke2sv
&EcmRegion=ap-hangzhou-ecm
&Description=VPC description
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "60329c63-0abb-4c4e-b875-c6b01c44e294"
}
}
```

5. Developer Resources

SDK

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

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.TooLong	The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DeleteVpc

Last updated：2023-08-18 14:27:57

1. API Description

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

This API is used to delete a VPC.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteVpc.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID, which can be obtained from the `VpcId` field in the returned value of the `DescribeVpcs` API.
EcmRegion	Yes	String	ECM region

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Deleting VPC

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteVpc
&VpcId=vpc-ila64qtl
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "60329c63-0abb-4c4e-b875-c6b01c44e294"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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CreateVpc

Last updated：2023-08-18 14:27:57

1. API Description

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

This API is used to create a VPC.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateVpc.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
VpcName	Yes	String	VPC name, which can contain up to 60 bytes.
CidrBlock	Yes	String	VPC CIDR block, which must fall within the following private network IP ranges: 10.*.0.0/16, 172.[16-31].0.0/16, and 192.168.0.0/16.
EcmRegion	Yes	String	ECM region
EnableMulticast	No	String	Whether multicast is enabled. true: enabled; false: disabled. This parameter is not supported currently
DnsServers.N	No	Array of	DNS address (not supported currently). Up to 4 addresses can be supported.

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		String	
DomainName	No	String	Domain name. This parameter is not supported currently
Tags.N	No	Array of Tag	List of bound tags, such as [{"Key": "city", "Value": "shanghai"}].
Description	No	String	Description

3. Output Parameters

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

4. Example

Example1 Creating VPC

Input Example

```
https://ecm.tencentcloudapi.com/?Action=CreateVpc
&VpcName=VPC name
&CidrBlock=10.10.0.0/28
&EcmRegion=ap-hangzhou-ecm
&Description=VPC description
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6c7eda30-1b66-4296-857e-183f6094063f",
"Vpc": {
"EnableDhcp": true,
"VpcId": "vpc-gynsaui3",
"Description": "VPC description",
```

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```
"DomainName": "",
"Ipv6CidrBlock": "",
"Region": "ap-hangzhou-ecm",
"DhcpOptionsId": "",
"InstanceCount": 0,
"DnsServerSet": [],
"EnableMulticast": false,
"VpcName": "VPC name",
"AssistantCidrSet": null,
"TagSet": null,
"SubnetCount": 0,
"CreatedTime": "2020-08-14 10:58:26",
"CidrBlock": "10.10.0.0/28",
"IsDefault": false,
"RegionName": "Hangzhou Zone 1"
}
}
}
```


5. Developer Resources

SDK

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

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.TooLong	The parameter value is too long.
LimitExceeded	The quota limit is exceeded.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeVpcs

Last updated：2023-08-18 14:27:57

1. API Description

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

This API is used to query the list of VPCs.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeVpcs.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
VpcIds.N	No	Array of String	VPC instance ID, such as `vpc-f49l6u0z`. Each request supports a maximum of 100 instances. `VpcIds` and `Filters` cannot be specified at the same time.
Filters.N	No	Array of Filter	Filter. `VpcIds` and `Filters` cannot be specified at the same time. vpc-name - String - VPC instance name. Only fuzzy query by a single value is supported. vpc-id - String - VPC instance ID, such as `vpc-f49l6u0z`. cidr-block - String - VPC CIDR. Only fuzzy query by a single value is supported.

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			region - String - VPC region. tag-key - String - Required: no - Filter by tag key. tag:tag-key - String - Required: no - Filter by tag key-value pair.
Offset	No	Integer	Offset
Limit	No	Integer	Number of returned results.
EcmRegion	No	String	Region
Sort	No	String	Sorting method. time: sort in reverse chronological order; default: sort by network planning.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible objects.
VpcSet	Array of VpcInfo	VPC object. 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 VPC list

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeVpcs
&VpcIds.0=vpc-07kqm4uj
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TotalCount": 1,
```

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```
"RequestId": "d15a17b7-703b-4757-ae1a-745af315abc4",
"VpcSet": [
{
"EnableDhcp": true,
"VpcId": "vpc-07kqm4uj",
"Description": "",
"DomainName": "",
"Ipv6CidrBlock": "",
"Region": "ap-hangzhou-ecm",
"DhcpOptionsId": "",
"InstanceCount": 2,
"DnsServerSet": [],
"EnableMulticast": false,
"VpcName": "Default-VPC",
"AssistantCidrSet": [],
"TagSet": null,
"SubnetCount": 1,
"CreatedTime": "2020-06-17 12:09:46",
"CidrBlock": "172.16.0.0/16",
"IsDefault": true,
"RegionName": "Hangzhou Zone 1"
}
]
}
}
```


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.FilterLimitExceeded	The value of the `Filter` parameter exceeds the limit.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.InvalidZoneInstanceCount	The city or quantity is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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Subnet APIs
CreateSubnet

Last updated：2023-08-18 14:27:58

1. API Description

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

This API is used to create a subnet. After the subnet is created successfully, it will become the default subnet for the AZ.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateSubnet.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
VpcId	Yes	String	ID of the VPC instance to be manipulated, which can be obtained from the `VpcId` field in the returned value of the `DescribeVpcs` API.
SubnetName	Yes	String	Subnet name, which can contain up to 60 bytes.
CidrBlock	Yes	String	Subnet IP address range. It must be within the VPC IP address range. Subnet IP address ranges cannot overlap with each other within the same VPC.

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Zone	Yes	String	AZ ID of the subnet. You can select different AZs for different subnets for cross-AZ disaster recovery.
EcmRegion	Yes	String	ECM region
Tags.N	No	Array of Tag	List of bound tags, such as [{"Key": "city", "Value": "shanghai"}].

3. Output Parameters

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

4. Example

Example1 Creating subnet

Input Example

```
https://ecm.tencentcloudapi.com/?Action=CreateSubnet
&VpcId=vpc-ila64qtl
&SubnetName=subnet_test
&CidrBlock=10.0.1.0/24
&Zone=ap-hangzhou-ecm-1
&Tags.0.Key=city
&Tags.0.Value=hangzhou
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Subnet": {
"NetworkAclId": "",
```

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```
"RouteTableId": "",
"VpcId": "vpc-ila64qtl",
"EnableBroadcast": false,
"Zone": "ap-hangzhou-ecm-1",
"Ipv6CidrBlock": "",
"Region": "ap-hangzhou-ecm",
"SubnetName": "subnet_test",
"AvailableIpAddressCount": 253,
"IsRemoteVpcSnat": false,
"SubnetId": "subnet-heaa1hzo",
"InstanceCount": 0,
"VpcCidrBlock": "10.0.0.0/16",
"TagSet": [
{
"Value": "hangzhou",
"Key": "city"
}
],
"CreatedTime": "2020-08-14 10:38:40",
"ZoneName": "Hangzhou Zone 1",
"CidrBlock": "10.0.1.0/24",
"IsDefault": false,
"VpcIpv6CidrBlock": ""
},
"RequestId": "d0c21b3b-4c46-4ac3-a6ad-576303682731"
}
}
```


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.InvalidZone	The zone is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.SubnetConflict	The specified CIDR block conflicts with another subnet in the same VPC.
InvalidParameterValue.SubnetRange	The subnet IP range is invalid.
LimitExceeded	The quota limit is exceeded.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

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DescribeSubnets

Last updated：2023-08-18 14:27:57

1. API Description

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

This API is used to query the list of subnets.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSubnets.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SubnetIds.N	No	Array of String	Subnet instance ID, such as `subnet-pxir56ns` . Each request supports a maximum of 100 instances. `SubnetIds` and `Filters` cannot be specified at the same time.
Filters.N	No	Array of Filter	Filter. `SubnetIds` and `Filters` cannot be specified at the same time. subnet-id - String - Subnet instance name. subnet-name - String - Subnet name. Only fuzzy query by a single value is supported. cidr-block - String - Subnet IP address range, such as `192.168.1.0` . Only fuzzy query by a single value is supported.

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			vpc-id - String - VPC instance ID, such as `vpc-f49l6u0z`. vpc-cidr-block - String - VPC IP address range, such as `192.168.1.0`. Only fuzzy query by a single value is supported. region - String - ECM region. zone - String - AZ. tag-key - String - Required: no - Filter by tag key. tag:tag-key - String - Required: no - Filter by tag key-value pair.
Offset	No	String	Offset
Limit	No	String	Number of returned results.
EcmRegion	No	String	ECM region
Sort	No	String	Sorting method. time: sort in reverse chronological order; default: sort by network planning.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances.
SubnetSet	Array of Subnet	Subnet object. 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 subnet list

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeSubnets
&Filters.0.Name=subnet-id
&Filters.0.Values.0=subnet-ae71tjp6
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

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Output Example


```
{
"Response": {
"SubnetSet": [
{
"NetworkAclId": "",
"RouteTableId": "rtb-cahjl2qq",
"VpcId": "vpc-hqhu0suj",
"EnableBroadcast": false,
"Zone": "ap-hangzhou-ecm-1",
"Ipv6CidrBlock": "",
"Region": "ap-hangzhou-ecm",
"SubnetName": "subnet_test",
"AvailableIpAddressCount": 253,
"IsRemoteVpcSnat": false,
"SubnetId": "subnet-ae71tjp6",
"InstanceCount": 0,
"VpcCidrBlock": "192.168.0.0/18",
"TagSet": [
{
"Value": "hangzhou",
"Key": "city"
}
],
"CreatedTime": "2020-08-14 11:38:33",
"ZoneName": "Hangzhou Zone 1",
"CidrBlock": "192.168.1.0/24",
"IsDefault": false,
"VpcIpv6CidrBlock": ""
}
],
"TotalCount": 1,
"RequestId": "6e863039-2a22-4a98-8577-93823b250674"
}
}
```


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.InternalOperationFailure	Internal error.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.FilterLimitExceeded	The value of the `Filter` parameter exceeds the limit.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ModifySubnetAttribute

Last updated：2023-08-18 14:27:57

1. API Description

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

This API is used to modify the attributes of a subnet.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifySubnetAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SubnetId	Yes	String	Subnet instance ID, such as `subnet-pxir56ns` .
EcmRegion	Yes	String	ECM region
SubnetName	No	String	Subnet name, which can contain up to 60 bytes.
EnableBroadcast	No	String	Whether to enable broadcast for the subnet.
Tags.N	No	Array of Tag	Tag key value of the subnet

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3. Output Parameters

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

4. Example

Example1 Modifying subnet attributes

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifySubnetAttribute
&SubnetId=subnet-ae71tjp6
&SubnetName=subnet_test_modify
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "0b5123d6-3420-4369-8c2f-414706d40684"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.DataOperationFailed	Data operation failed.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.TooLong	The parameter value is too long.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DeleteSubnet

Last updated：2023-08-18 14:27:58

1. API Description

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

This API is used to delete a subnet. If the subnet is the current default subnet in the AZ, after it is deleted, the default subnet automatically created by the system rather than the last subnet created by you will be used as the new default subnet. If the new default subnet does not meet your needs, you can call the API for setting the default subnet to configure it.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteSubnet.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SubnetId	Yes	String	Subnet instance ID, which can be obtained from the `SubnetId` field in the returned value of the `DescribeSubnets` API.
EcmRegion	Yes	String	ECM region

3. Output Parameters

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

4. Example

Example1 Deleting subnet

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteSubnet
&SubnetId=subnet-jxa0xg1o
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "9506a1e5-33de-406b-945c-1bbd3b7a8f8b"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.DataOperationFailed	Data operation failed.
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ModifyDefaultSubnet

Last updated：2023-08-18 14:27:57

1. API Description

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

This API is used to modify the default subnet used when you create an instance in an AZ (if you don't specify the VPC parameter when creating the instance, `sunbetId` will be used).

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyDefaultSubnet.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
Zone	Yes	String	ECM AZ
VpcId	Yes	String	VPC ID
SubnetId	Yes	String	Subnet ID

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3. Output Parameters

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

4. Example

Example1 Setting the default subnet in Hangzhou Zone 1

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyDefaultSubnet
&EcmRegion=ap-hangzhou-ecm
&Zone=ap-hangzhou-ecm-1
&VpcId=vpc-cp6wknwh
&SubnetId=subnet-jxa0xg1o
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "7daa4e7c-7698-4cc1-8ed0-2f729462c110"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeDefaultSubnet

Last updated：2023-08-18 14:27:58

1. API Description

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

This API is used to query the default subnet in an AZ.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeDefaultSubnet.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
Zone	Yes	String	ECM AZ

3. Output Parameters

Parameter Name	Type	Description

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Subnet	Subnet	Default subnet information. If there is no subnet, this parameter will be empty.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the default subnet in Hangzhou Zone 1

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeDefaultSubnet
&EcmRegion=ap-hangzhou-ecm
&Zone=ap-hangzhou-ecm-1
&<Common request parameters>
```

Output Example


```
{
"Response": {
"Subnet": {
"NetworkAclId": "",
"RouteTableId": "rtb-8dq69epw",
"VpcId": "vpc-07kqm4uj",
"EnableBroadcast": false,
"Zone": "ap-hangzhou-ecm-1",
"Ipv6CidrBlock": "",
"Region": "ap-hangzhou-ecm",
"SubnetName": "Default-Subnet",
"AvailableIpAddressCount": 4090,
"IsRemoteVpcSnat": false,
"SubnetId": "subnet-68hie5i6",
"InstanceCount": 2,
"VpcCidrBlock": "172.16.0.0/16",
"TagSet": null,
"CreatedTime": "2020-08-12 10:44:56",
"ZoneName": "Hangzhou Zone 1",
"CidrBlock": "172.16.0.0/20",
"IsDefault": true,
"VpcIpv6CidrBlock": ""
},
"RequestId": "7d67dea3-c6ff-45ca-aa5a-477cfae6697f"
}
}
```


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5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
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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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.InvalidZone	The zone is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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Route Table APIs
CreateRouteTable

Last updated：2023-08-18 14:28:02

1. API Description

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

After a VPC is created, the system will create a default route table, with which all new subnets will be associated. By default, you can use the default route table to manage your routing policies. If you have multiple routing policies, you can call the API for route table creation to create more route tables to manage your routing policies.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateRouteTable.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
VpcId	Yes	String	ID of the VPC instance to be manipulated, which can be obtained from the `VpcId` field in the returned value of the `DescribeVpcs` API.
RouteTableName	Yes	String	Route table name, which can contain up to 60 bytes.
EcmRegion	Yes	String	ECM region

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3. Output Parameters

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

4. Example

Example1 Creating route table

Input Example

```
https://ecm.tencentcloudapi.com/?Action=CreateRouteTable
&RouteTableName=Test route table
&VpcId=vpc-loibq08z
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RouteTable": {
"VpcId": "vpc-loibq08z",
"RouteTableId": "rtb-dqbbc9zc",
"RouteTableName": "Test route table",
"AssociationSet": [],
"RouteSet": [],
"Main": false,
"CreatedTime": "0000-00-00 00:00:00"
},
"RequestId": "4673c0fc-cb3a-435f-99a7-61a139a31ae4"
}
}
```

5. Developer Resources

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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.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.TooLong	The parameter value is too long.
LimitExceeded	The quota limit is exceeded.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeRouteTables

Last updated：2023-08-18 15:47:44

1. API Description

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

This API is used to query the list of the objects in a route table.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeRouteTables.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableIds.N	No	Array of String	Route table instance ID, such as `rtb-azd4dt1c` .
Filters.N	No	Array of Filter	Filter. `RouteTableIds` and `Filters` cannot be specified at the same time. route-table-id - String - (Filter) Route table instance ID. route-table-name - String - (Filter) Route table name. vpc-id - String - (Filter) VPC instance ID, such as `vpc-f49l6u0z` .

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			association.main - String - (Filter) Whether it is the main route table.
Offset	No	Integer	Offset
Limit	No	Integer	Limit
EcmRegion	No	String	ECM region. If this parameter is left empty or not specified, it will indicate all regions.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances
RouteTableSet	Array of RouteTable	List of route tables Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing the list of objects in route table

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeRouteTables
&Offset=0
&Limit=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RouteTableSet": [
{
"VpcId": "vpc-2at5y1pn",
```

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```
"RouteTableId": "rtb-l2h8d7c2",
"RouteTableName": "TestRouteTable",
"AssociationSet": [],
"RouteSet": [
{
"RouteItemId": "rti-12345678",
"DestinationCidrBlock": "169.254.64.0/23",
"GatewayType": "NORMAL_CVM",
"GatewayId": "172.16.0.25",
"RouteDescription": ""
}
],
"Main": false,
"CreatedTime": "2020-11-30 19:52:03"
}
],
"TotalCount": 2,
"RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
}
}
```


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ReplaceRouteTableAssociation

Last updated：2023-08-18 14:28:01

1. API Description

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

This API is used to modify the route table associated with a subnet. A subnet can be associated with only one route table.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ReplaceRouteTableAssociation.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SubnetId	Yes	String	Subnet instance ID, such as `subnet-3x5lf5q0` , which can be queried through the `DescribeSubnets` API.
RouteTableId	Yes	String	Route table instance ID, such as `rtb-azd4dt1c` .
EcmRegion	Yes	String	ECM region

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3. Output Parameters

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

4. Example

Example1 Replacing the binding relationship of route table

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ReplaceRouteTableAssociation
&RouteTableId=rtb-n0yejvje
&SubnetId=subnet-q2079ils
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.ObjectVpcNotCurrentVpc	The specified object is not the current VPC.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

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ModifyRouteTableAttribute

Last updated：2023-08-18 14:28:01

1. API Description

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

This API is used to modify the attributes of a route table.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyRouteTableAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Route table instance ID, such as `rtb-azd4dt1c`
RouteTableName	Yes	String	Route table name

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Modifying route table attributes

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyRouteTableAttribute
&RouteTableId=rtb-n0yejvje
&RouteTableName=NewRouteTableName
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.

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ResetRoutes

Last updated：2023-08-18 14:28:00

1. API Description

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

This API is used to reset a route table name and all routing policies.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ResetRoutes.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Route table instance ID, such as `rtb-azd4dt1c` .
RouteTableName	Yes	String	Route table name, which can contain up to 60 bytes.
Routes.N	Yes	Array of Route	Routing policy.

3. Output Parameters

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

4. Example

Example1 Resetting route table name and routing policies

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ResetRoutes
&RouteTableId=rtb-n0yejvje
&RouteTableName=ResetRouteTableName
&Routes.0.DestinationCidrBlock=192.168.0.0/16
&Routes.0.GatewayType=NORMAL_CVM
&Routes.0.GatewayId=172.16.16.37
&Routes.0.RouteDescription=test-route
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.CidrNotInPeerVpc	The destination IP range is not within the CIDR range of the customer VPC.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.VpcCidrConflict	The destination IP range conflicts with the CIDR block of the current VPC.
LimitExceeded	The quota limit is exceeded.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.SystemRoute	Operations on the system route are prohibited.

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DeleteRouteTable

Last updated：2023-08-18 14:28:02

1. API Description

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

This API is used to delete a route table.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteRouteTable.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Route table instance ID, such as `rtb-azd4dt1c`

3. Output Parameters

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

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4. Example

Example1 Deleting route table

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteRouteTable
&RouteTableId=rtb-azd4dt1c
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.DelDefaultRoute	The default route table cannot be deleted.
UnsupportedOperation.DelRouteWithSubnet	The route table associated with a subnet cannot be deleted.

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CreateRoutes

Last updated：2023-08-18 15:47:44

1. API Description

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

This API is used to create a routing policy.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateRoutes.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Route table instance ID.
Routes.N	Yes	Array of Route	Routing policy object to be created.

3. Output Parameters

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Parameter Name	Type	Description
TotalCount	Integer	Number of added instances.
RouteTableSet	Array of RouteTable	Route table object. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating routing policy

Input Example

```
https://ecm.tencentcloudapi.com/?Action=CreateRoutes
&RouteTableId=rtb-n0yejvje
&Routes.0.DestinationCidrBlock=192.168.0.0/16
&Routes.0.GatewayType=NORMAL_CVM
&Routes.0.GatewayId=10.212.0.13
&Routes.0.RouteDescription=TEST-ROUTE
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RouteTableSet": [
{
"VpcId": "vpc-k23blx7p",
"RouteTableId": "rtb-n0yejvje",
"RouteTableName": "TestRoutes",
"AssociationSet": [],
"RouteSet": [
{
"RouteItemId": "rti-12345678",
"DestinationCidrBlock": "192.168.0.0/16",
"GatewayType": "NORMAL_CVM",
"GatewayId": "10.212.0.13",
"RouteDescription": "TEST-ROUTE"
}
```

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```
],
"Main": false,
"CreatedTime": "2020-11-11 11:11:03"
}
],
"TotalCount": 1,
"RequestId": "3f934a21-2786-44af-a421-38ee6c6e1fae"
}
}
```


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
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.CidrNotInPeerVpc	The destination IP range is not within the CIDR range of the customer VPC.

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InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.VpcCidrConflict	The destination IP range conflicts with the CIDR block of the current VPC.
LimitExceeded	The quota limit is exceeded.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.Ecmp	The ECMP is not supported.
UnsupportedOperation.EcmpWithCcnRoute	ECMP was formed with the CCN route.
UnsupportedOperation.EcmpWithUserRoute	ECMP was formed with the custom route.
UnsupportedOperation.SystemRoute	Operations on the system route are prohibited.

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ReplaceRoutes

Last updated：2023-08-18 14:28:01

1. API Description

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

This API is used to replace a routing policy.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ReplaceRoutes.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Route table instance ID.
Routes.N	Yes	Array of Route	Routing policy object.

3. Output Parameters

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

4. Example

Example1 Replacing routing policy

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ReplaceRoutes
&RouteTableId=rtb-n0yejvje
&Routes.0.RouteId=678
&Routes.0.DestinationCidrBlock=192.168.0.0/16
&Routes.0.GatewayType=NORMAL_CVM
&Routes.0.GatewayId=10.212.0.15
&Routes.0.RouteDescription=TEST-ROUTE
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.CidrNotInPeerVpc	The destination IP range is not within the CIDR range of the customer VPC.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.VpcCidrConflict	The destination IP range conflicts with the CIDR block of the current VPC.
LimitExceeded	The quota limit is exceeded.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.Ecmp	The ECMP is not supported.
UnsupportedOperation.SystemRoute	Operations on the system route are prohibited.

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DescribeRouteConflicts

Last updated：2023-08-18 14:28:02

1. API Description

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

This API is used to query the list of conflicts between a custom routing policy and a CCN routing policy.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeRouteConflicts.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Route table instance ID, such as `rtb-azd4dt1c` .
DestinationCidrBlocks.N	Yes	Array of String	List of conflicting destination ports to be checked.

3. Output Parameters

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

4. Example

Example1 Querying the list of routing policy conflicts

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeRouteConflicts
&RouteTableId=rtb-q8o2z892
&DestinationCidrBlocks.0=10.11.0.0/24
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RouteConflictSet": [],
"RequestId": "cf11a8a4-e7c6-42cf-a35a-649c1789868b"
}
}
```

5. Developer Resources

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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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EnableRoutes

Last updated：2023-08-18 14:28:01

1. API Description

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

This API is used to enable a disabled subnet route.
This API verifies whether a CCN route will conflict with an existing route after it is enabled, and if so, you cannot enable it before you disable the conflicting route first.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: EnableRoutes.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Unique route table ID.
RouteIds.N	Yes	Array of Integer	Routing policy ID.

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3. Output Parameters

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

4. Example

Example1 Enabling subnet route

Input Example

```
https://ecm.tencentcloudapi.com/?Action=EnableRoutes
&RouteTableId=rtb-12345678
&RouteIds.0=678
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
}
}
```

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.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.Ecmp	The ECMP is not supported.
UnsupportedOperation.EcmpWithCcnRoute	ECMP was formed with the CCN route.
UnsupportedOperation.EcmpWithUserRoute	ECMP was formed with the custom route.
UnsupportedOperation.SystemRoute	Operations on the system route are prohibited.

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DisableRoutes

Last updated：2023-08-18 14:28:01

1. API Description

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

This API is used to disable a subnet route.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DisableRoutes.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Unique route table ID.
RouteIds.N	Yes	Array of Integer	Routing policy ID.

3. Output Parameters

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

4. Example

Example1 Disabling subnet route

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DisableRoutes
&RouteTableId=rtb-12345678
&RouteIds.0=678
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.SystemRoute	Operations on the system route are prohibited.

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DeleteRoutes

Last updated：2023-08-18 14:28:02

1. API Description

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

This API is used to batch delete routing policies from a route table.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteRoutes.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
RouteTableId	Yes	String	Unique route table ID.
Routes.N	Yes	Array of Route	Routing policy object.

3. Output Parameters

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

4. Example

Example1 Deleting routing rule

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteRoutes
&RouteTableId=rtb-12345678
&Routes.0.RouteId=678
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

5. Developer Resources

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6. Error Code

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

Error Code	Description
InvalidParameter.InvalidDataFormat	The data format is incorrect.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.SystemRoute	Operations on the system route are prohibited.

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CLB APIs
ModifyTargetWeight

Last updated：2023-08-18 14:28:16

1. API Description

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

This API is used to modify the forwarding weight of a real server bound to a listener.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyTargetWeight.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
ListenerId	Yes	String	CLB listener ID
Targets.N	Yes	Array of Target	List of real servers for which to modify the weights
Weight	No	Integer	New forwarding weight of the real server. Value range: 0-100.

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			Default value: 10. This parameter will not take effect if the `Targets.Weight` parameter is set.

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 forwarding weight of real server bound to listener

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyTargetWeight
&LoadBalancerId=lb-cuxw2rm0
&ListenerId=lbl-d1ubsydq
&Targets.0.InstanceId=ein-dm4xtz0i
&Targets.0.Port=334
&Weight=8
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "a2764f3c-f173-421c-8e42-7b1e7a608a12"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ModifyTargetPort

Last updated：2023-08-18 14:28:17

1. API Description

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

This API is used to modify the port of a real server bound to a listener.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyTargetPort.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
ListenerId	Yes	String	CLB listener ID
Targets.N	Yes	Array of Target	List of real servers for which to modify the ports
NewPort	Yes	Integer	New port of the real server bound to the listener or forwarding rule

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3. Output Parameters

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

4. Example

Example1 Modifying the port of real server bound to listener

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyTargetPort
&LoadBalancerId=lb-cuxw2rm0
&ListenerId=lbl-d1ubsydq
&Targets.0.InstanceId=ein-dm4xtz0i
&Targets.0.Port=233
&NewPort=334
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "a2764f3c-f173-421c-8e42-7b1e7a608ffd"
}
}
```

5. Developer Resources

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ModifyLoadBalancerAttributes

Last updated：2023-08-18 14:28:17

1. API Description

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

This API is used to modify the attributes of a CLB 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: ModifyLoadBalancerAttributes.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	Unique CLB ID
LoadBalancerName	No	String	CLB instance name
InternetChargeInfo	No	LoadBalancerInternetAccessible	Network billing and bandwidth parameters
LoadBalancerPassToTarget	No	Boolean	Whether to allow ELB traffic to

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			the target group. `true` : allows ELB traffic to the target group and verifies security groups only on ELB; `false` : denies ELB traffic to the target group and verifies security groups on both ELB and backend instances.

3. Output Parameters

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

4. Example

Example1 Modifying CLB instance attributes

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyLoadBalancerAttributes
&LoadBalancerId=lb-6efswuxa
&LoadBalancerName=newlbname
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "78a40898-8210-44c7-8bc6-f83e50878d12"
}
}
```

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.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.LBIdNotFound	The CLB instance ID is incorrect.
InvalidParameter.RegionNotFound	The region is invalid.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ModifyListener

Last updated：2023-08-18 14:28:17

1. API Description

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

This API is used to modify the attributes of a CLB listener.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyListener.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
ListenerId	Yes	String	CLB listener ID
ListenerName	No	String	New listener name
SessionExpireTime	No	Integer	Session persistence time in seconds. Value range: 30–3600. The default value is 0, indicating that session persistence is not enabled. This parameter is applicable only to TCP/UDP listeners.

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HealthCheck	No	HealthCheck	Health check parameters
Scheduler	No	String	Forwarding method of the listener. Valid values: WRR, LEAST_CONN. They represent weighted round robin and least connections, respectively. Default value: WRR.

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 CLB listener attributes

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyListener
&LoadBalancerId=lb-f9zyj3kb
&ListenerId=lbl-knd4jr8m
&ListenerName=xxx
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "89dfdd1d-3571-41e8-bce2-1ef7eaae9211"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeTargets

Last updated：2023-08-18 14:28:17

1. API Description

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

This API is used to query the list of the real servers bound to a CLB 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: DescribeTargets.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
ListenerIds.N	No	Array of String	List of listener IDs.
Protocol	No	Integer	Listener protocol type.
Port	No	Integer	Listener port.

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3. Output Parameters

Parameter Name	Type	Description
Listeners	Array of ListenerBackend	Information of real servers bound to the listener. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of real servers bound to CLB instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeTargets
&LoadBalancerId=lb-f9zyj3kb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "cbc4f5bf-589e-4102-a608-bef958372313",
"Listeners": [
{
"Targets": [],
"ListenerId": "lbl-43jbp1cc",
"Port": 12345,
"Protocol": "TCP"
},
{
"Targets": [],
"ListenerId": "lbl-aznj4uuk",
"Port": 222,
"Protocol": "TCP"
},
{
"Targets": [
{
```

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```
"EniId": "eni-i0qls00b",
"InstanceName": "",
"InstanceId": "ein-nu5sp1s4",
"PublicIpAddresses": [
"101.67.8.124"
],
"Port": 23001,
"RegisteredTime": "2020-08-12 16:08:15",
"Weight": 100,
"PrivateIpAddresses": [
"172.16.0.74"
]
},
{
"EniId": "eni-55sj7ug9",
"InstanceName": "Low-Profile test server",
"InstanceId": "ein-dqvc6c5g",
"PublicIpAddresses": [
"101.67.8.111"
],
"Port": 23001,
"RegisteredTime": "2020-08-12 16:08:15",
"Weight": 100,
"PrivateIpAddresses": [
"172.16.0.11"
]
}
],
"ListenerId": "lbl-o0hptbhg",
"Port": 13001,
"Protocol": "TCP"
},
{
"Targets": [
{
"EniId": "eni-i0qls00b",
"InstanceName": "",
"InstanceId": "ein-nu5sp1s4",
"PublicIpAddresses": [
"101.67.8.124"
],
"Port": 23002,
"RegisteredTime": "2020-08-12 16:10:41",
"Weight": 100,
"PrivateIpAddresses": [
"172.16.0.74"
]
```


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```
},
{
"EniId": "eni-i0qls00b",
"InstanceName": "",
"InstanceId": "ein-nu5sp1s4",
"PublicIpAddresses": [
"101.67.8.124"
],
"Port": 23012,
"RegisteredTime": "2020-08-12 16:10:41",
"Weight": 100,
"PrivateIpAddresses": [
"172.16.0.74"
]
}
],
"ListenerId": "lbl-jruukfae",
"Port": 13002,
"Protocol": "TCP"
},
{
"Targets": [],
"ListenerId": "lbl-6p9gf1nq",
"Port": 13003,
"Protocol": "TCP"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeTargetHealth

Last updated：2023-08-18 14:28:17

1. API Description

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

This API is used to get the health check status of a CLB real server.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeTargetHealth.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerIds.N	Yes	Array of String	List of IDs of CLB instances to be queried.

3. Output Parameters

Parameter Name	Type	Description

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LoadBalancers	Array of LoadBalancerHealth	List of CLB instances. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the health check status of CLB real server

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeTargetHealth
&LoadBalancerIds.0=lb-f9zyj3kb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "040f094b-aed7-45fc-963a-ebae4970be44",
"LoadBalancers": [
{
"LoadBalancerId": "lb-f9zyj3kb",
"LoadBalancerName": "test",
"Listeners": [
{
"Rules": [
{
"Targets": [
{
"HealthStatus": true,
"HealthStatusDetail": "Alive",
"IP": "172.16.0.67",
"Port": 23001,
"TargetId": "ein-ncnepgio"
}
]
}
],
"ListenerId": "lbl-knd4jr8m",
"Port": 13001,
"Protocol": "TCP",
```

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```
"ListenerName": ""
}
]
}
]
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.

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InvalidParameter.LBIdNotFound	The CLB instance ID is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeLoadBalancers

Last updated：2023-08-18 14:28:18

1. API Description

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

This API is used to query the list of CLB 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: DescribeLoadBalancers.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	No	String	Region. If this parameter is not specified, the information of all regions will be queried by default.
LoadBalancerIds.N	No	Array of String	CLB instance ID.
LoadBalancerName	No	String	CLB instance name.
LoadBalancerVips.N	No	Array of String	VIP address of the CLB instance. There can be multiple addresses.

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BackendPrivateIps.N	No	Array of String	Private IP of the real server bound to the CLB.
Offset	No	Integer	Data offset. Default value: 0.
Limit	No	Integer	Number of returned CLB instances. Default value: 20. Maximum value: 100.
WithBackend	No	Integer	Whether the CLB instance is bound to a real server. 0: no; 1: yes; -1: query all. If this parameter is not specified, all will be queried by default.
VpcId	No	String	Unique VPC ID of the CLB instance, such as `vpc-bhqkbhdx` .
Filters.N	No	Array of Filter	Each request can contain up to 10 `Filters` and 100 `Filter.Values` . The detailed filters are as follows: tag-key - String - Required: no - (Filter) Filter by tag key.
SecurityGroup	No	String	Security group.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of eligible CLB instances. This value is independent of the `Limit` in the input parameter. Note: this field may return null, indicating that no valid values can be obtained.
LoadBalancerSet	Array of LoadBalancer	Array of returned CLB instances. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying CLB instance list

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Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeLoadBalancers
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example


```
{
"Response": {
"RequestId": "8d42288f-3fad-473a-93e6-cab5b219af8e",
"LoadBalancerSet": [
{
"Status": 1,
"StatusTime": "2020-07-28 10:58:08",
"VpcId": "vpc-pugaiwf9",
"LoadBalancerVips": [
"101.67.8.110"
],
"VipIsp": "CUCC",
"CreateTime": "2020-07-28 10:58:06",
"LoadBalancerId": "lb-a8q643wj",
"LoadBalancerName": "test",
"LoadBalancerType": "OPEN",
"Region": "xx",
"Position": {
"Province": {
"ProvinceId": "xx",
"ProvinceName": "xx"
},
"City": {
"CityId": "xx",
"CityName": "xx"
},
"Area": {
"AreaId": "xx",
"AreaName": "xx"
},
"Country": {
"CountryName": "xx",
"CountryId": "xx"
},
"ZoneInfo": {
"ZoneName": "xx",
"Zone": "xx",
"ZoneId": 0
```


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```
},
"RegionInfo": {
"Region": "xx",
"RegionId": 0,
"RegionName": "xx"
}
},
"Tags": [
{
"TagValue": "test",
"TagKey": "test"
}
],
"NetworkAttributes": {
"InternetMaxBandwidthOut": 100
}
}
],
"TotalCount": 1
}
}
```


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	Authentication failed.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.RegionNotFound	The region is invalid.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
InvalidParameterValue.Range	The parameter value is not in the specified range.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeLoadBalanceTaskStatus

Last updated：2023-08-18 14:28:18

1. API Description

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

This API is used to query the task status of a CLB 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: DescribeLoadBalanceTaskStatus.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
TaskId	Yes	String	Request ID, i.e., the `RequestId` parameter returned by the API

3. Output Parameters

Parameter Name	Type	Description
Status	Integer	Current task status. 0: succeeded; 1: failed; 2: in progress.

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		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 task status of CLB instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeLoadBalanceTaskStatus
&TaskId=a4b58173-34c0-4940-9759-28e06257f3dc
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Status": 0,
"RequestId": "6cf00076-1f62-4b28-bdeb-8b2d5b363cb7"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeListeners

Last updated：2023-08-18 14:28:18

1. API Description

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

This API is used to query the list of CLB listeners.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeListeners.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
ListenerIds.N	No	Array of String	Array of IDs of the CLB listeners to be queried
Protocol	No	String	Protocol type of the listener to be queried. Valid values: TCP, UDP.
Port	No	Integer	Port of the listener to be queried

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3. Output Parameters

Parameter Name	Type	Description
Listeners	Array of Listener	List of listeners Note: this field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of listeners 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 CLB listener list

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeListeners
&LoadBalancerId=lb-f9zyj3kb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "dcb32a03-de71-437a-9f92-a703e6d82927",
"TotalCount": 2,
"Listeners": [
{
"HealthCheck": {
"HealthNum": 3,
"IntervalTime": 5,
"UnHealthyNum": 3,
"TimeOut": 2,
"CheckType": "TCP",
"HealthSwitch": 1
},
"CreateTime": "2020-07-21 20:15:54",
"ListenerId": "lbl-knd4jr8m",
"Port": 13001,
```

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```
"Scheduler": "WRR",
"Protocol": "TCP",
"SessionExpireTime": 0,
"ListenerName": ""
},
{
"HealthCheck": {
"HealthNum": 3,
"IntervalTime": 5,
"UnHealthyNum": 3,
"TimeOut": 2,
"CheckType": "TCP",
"HealthSwitch": 1
},
"CreateTime": "2020-07-21 20:15:54",
"ListenerId": "lbl-2fcyclbg",
"Port": 13002,
"Scheduler": "WRR",
"Protocol": "TCP",
"SessionExpireTime": 0,
"ListenerName": ""
}
]
}
}
```


5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.LBIdNotFound	The CLB instance ID is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DeleteLoadBalancerListeners

Last updated：2023-08-18 14:28:18

1. API Description

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

This API is used to delete multiple CLB listeners.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteLoadBalancerListeners.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
ListenerIds.N	No	Array of String	Array of IDs of the listeners to be deleted. If this parameter is left empty, all listeners of the CLB instance will be deleted

3. Output Parameters

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

4. Example

Example1 Deleting multiple CLB listeners

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteLoadBalancerListeners
&LoadBalancerId=lb-db2nt5l2
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "c1157c81-f3dc-4f2a-9346-76f161d548eb"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DeleteLoadBalancer

Last updated：2023-08-18 14:28:18

1. API Description

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

This API is used to delete a CLB 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: DeleteLoadBalancer.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerIds.N	No	Array of String	Array of IDs of the CLB instances to be deleted. Array length limit: 20

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Deleting CLB instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteLoadBalancer
&LoadBalancerIds.0=lb-f9zyj3kb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "8d42288f-3fad-473a-93e6-cab5b219af8e"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.LBIdNotFound	The CLB instance ID is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
LimitExceeded	The quota limit is exceeded.
ResourceInsufficient	Insufficient resource.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DeleteListener

Last updated：2023-08-18 14:28:18

1. API Description

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

This API is used to delete a CLB listener.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteListener.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
ListenerId	Yes	String	ID of the listener to be deleted

3. Output Parameters

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

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		locating a problem.

4. Example

Example1 Deleting CLB listener

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteListener
&LoadBalancerId=lb-f9zyj3kb
&ListenerId=lb-knd4jr8m
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "dcb32a03-de71-437a-9f92-a703e6d82123"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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CreateLoadBalancer

Last updated：2023-08-18 14:28:19

1. API Description

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

This API is used to purchase a CLB 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: CreateLoadBalancer.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region, such as `ap-xian-ecm` .
LoadBalancerType	Yes	String	Network type of the CLB instance. Currently, you can pass in only `OPEN` , which indicates public network.
VipIsp	Yes	String	CMCC: China Mobile; CTCC: China Telecom; CUCC: China Unicom.

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LoadBalancerName	No	String	CLB instance name, which will take effect only when one instance is created. It can contain 1–50 letters, digits, hyphens, and underscores. Note: if the name of the new CLB instance already exists, a default name will be generated automatically.
VpcId	No	String	Network ID of the target device on the CLB backend, such as `vpc-12345678` .
Number	No	Integer	Number of CLB instances to be created. Default value: 1.
InternetAccessible	No	LoadBalancerInternetAccessible	CLB information such as bandwidth limit.
Tags.N	No	Array of TagInfo	Tags.
SecurityGroups.N	No	Array of String	Security groups.
AddressIPVersion	No	String	IP version. Valid values: `IPV4` (default), `IPv6FullChain` (IPv6 version). This parameter is only for public network CLB instances.
SubnetId	No	String	Subnet ID. This parameter is required for IPv6 CLB instances.

3. Output Parameters

Parameter Name	Type	Description
LoadBalancerIds	Array of String	Array of CLB instance IDs 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.

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4. Example

Example1 Purchasing a CLB instance

This example shows you how to purchase a CLB instance.

Input Example

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

{
"VipIsp": "CUCC",
"VpcId": "vpc-12345678",
"InternetAccessible": {
"InternetMaxBandwidthOut": "2000"
},
"LoadBalancerType": "OPEN",
"LoadBalancerName": "testname",
"EcmRegion": "ap-hangzhou-ecm"
}
```

Output Example

```
{
"Response": {
"LoadBalancerIds": [
"lb-mov2697v"
],
"RequestId": "88487432-ee86-4e5d-861b-774374123f89"
}
}
```

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.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidEcmRegion	The region parameter is invalid.
InvalidParameterValue.InvalidISPInNode	The ISP is invalid.
InvalidParameterValue.InvalidLoadBalancerNum	The number of CLB instances is invalid.
InvalidParameterValue.InvalidLoadBalancerType	The CLB instance type is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidSubnetInZone	The node does not exist in this subnet.

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InvalidParameterValue.Length	The parameter length is incorrect.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.TagNumOutOfRange	The number of tags exceeds the limit.
LimitExceeded	The quota limit is exceeded.
LimitExceeded.LBLimitExceeded	The number of CLB instances applied for exceeds the limit.
MissingParameter	The parameter is missing.
ResourceInsufficient	Insufficient resource.
ResourcesSoldOut.LoadBalancerSoldOut	CLB instances have been sold out.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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CreateListener

Last updated：2023-08-18 15:47:46

1. API Description

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

This API is used to create a CLB listener.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateListener.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
Ports.N	Yes	Array of Integer	Specifies for which ports to create listeners. Each port corresponds to a new listener
Protocol	Yes	String	Listener protocol. Valid values: TCP, UDP
ListenerNames.N	No	Array of String	List of names of the listeners to be created. The array of names and array of ports are in one-to-one

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			correspondence. If you do not want to name them now, you do not need to provide this parameter.
HealthCheck	No	HealthCheck	Health check parameters
SessionExpireTime	No	Integer	Session persistence time in seconds. Value range: 30–3600. The default value is 0, indicating that session persistence is not enabled. This parameter is applicable only to TCP/UDP listeners.
Scheduler	No	String	Forwarding method of the listener. Valid values: WRR, LEAST_CONN. They represent weighted round robin and least connections, respectively. Default value: WRR.
SessionType	No	String	Session persistence type. Valid values: NORMAL: the default session persistence type; QUIC_CID: session persistence by QUIC connection ID. The `QUIC_CID` value can only be configured in UDP listeners. If this field is not specified, the default session persistence type will be used.
EndPorts.N	No	Array of Integer	End ports of port ranges, which must be the same as `Ports` in length.

3. Output Parameters

Parameter Name	Type	Description
ListenerIds	Array of String	Array of unique IDs of the created listeners Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating CLB listener

Input Example

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```
https://ecm.tencentcloudapi.com/?Action=CreateListener
&LoadBalancerId=lb-f9zyj3kb
&Ports.0=13001
&Ports.1=13002
&Ports.2=13003
&Protocol=TCP
&<Common request parameters>
```

Output Example

```
{
"Response": {
"ListenerIds": [
"lbl-knd4jr8m",
"lbl-2fcyclbg",
"lbl-m5f7z60y"
],
"RequestId": "28b4ba78-0100-4ebe-8afd-a09cf09a6ffe"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
LimitExceeded	The quota limit is exceeded.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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BatchRegisterTargets

Last updated：2023-08-18 14:28:19

1. API Description

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

This API is used to batch bind backend targets.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: BatchRegisterTargets.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
Targets.N	Yes	Array of BatchTarget	Bound targets

3. Output Parameters

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Parameter Name	Type	Description
FailListenerIdSet	Array of String	IDs of the listeners failed to be bound. If this parameter is empty, all listeners have been bound successfully. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Batch binding backend targets

Input Example

```
https://ecm.tencentcloudapi.com/?Action=BatchRegisterTargets
&LoadBalancerId=lb-xxxx
&Targets.0.ListenerId=lbl-xxxx
&Targets.0.InstanceId=ein-xxx
&Targets.0.Port=80
&Targets.0.Weight=10
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FailListenerIdSet": [
"xx"
],
"RequestId": "a2764f3c-f173-421c-8e42-7b1e7a608a33"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.LBIdNotFound	The CLB instance ID is incorrect.
InvalidParameter.ListenerIdNotFound	The listener ID is incorrect.
InvalidParameter.LocationNotFound	No eligible forwarding rules were found.
InvalidParameter.PortCheckFailed	Listener port check failed due to a port conflict.
InvalidParameter.ProtocolCheckFailed	Listener protocol check failed, because this operation is not supported by the protocol.
InvalidParameter.RegionNotFound	The region is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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BatchModifyTargetWeight

Last updated：2023-08-18 14:28:19

1. API Description

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

This API is used to batch modify the forwarding weights of the real servers bound to a listener.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: BatchModifyTargetWeight.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
ModifyList.N	Yes	Array of TargetsWeightRule	List of weights to be modified in batches

3. Output Parameters

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

4. Example

Example1 Batch modifying the forwarding weights of real servers bound to listener

Input Example

```
https://ecm.tencentcloudapi.com/?Action=BatchModifyTargetWeight
&LoadBalancerId=lb-dx98lwo0
&ModifyList.0.ListenerId=lbl-4b5hnc9a
&ModifyList.0.Targets.0.InstanceId=ein-19404pl5
&ModifyList.0.Targets.0.Port=110
&ModifyList.0.Targets.0.Weight=50
&ModifyList.1.ListenerId=lbl-20jjtaaw
&ModifyList.1.Targets.0.InstanceId=ein-19411tzv
&ModifyList.1.Targets.0.Port=80
&ModifyList.1.Targets.0.Weight=30
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "83329908-a282-4f9f-8ab-031a3025b377"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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BatchDeregisterTargets

Last updated：2023-08-18 14:28:19

1. API Description

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

This API is used to batch unbind real servers.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: BatchDeregisterTargets.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
Targets.N	Yes	Array of BatchTarget	Unbound targets

3. Output Parameters

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Parameter Name	Type	Description
FailListenerIdSet	Array of String	IDs of the listeners failed to be unbound 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 Batch unbinding real servers

Input Example

```
https://ecm.tencentcloudapi.com/?Action=BatchDeregisterTargets
&LoadBalancerId=lb-xxxx
&Targets.0.ListenerId=lbl-xxxx
&Targets.0.InstanceId=ein-xxx
&Targets.0.Port=80
&Targets.0.Weight=10
&<Common request parameters>
```

Output Example

```
{
"Response": {
"FailListenerIdSet": [],
"RequestId": "83129908-a282-4f9f-8ab-131a3025ba22"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.LBIdNotFound	The CLB instance ID is incorrect.
InvalidParameter.ListenerIdNotFound	The listener ID is incorrect.
InvalidParameter.LocationNotFound	No eligible forwarding rules were found.
InvalidParameter.PortCheckFailed	Listener port check failed due to a port conflict.
InvalidParameter.ProtocolCheckFailed	Listener protocol check failed, because this operation is not supported by the protocol.
InvalidParameter.RegionNotFound	The region is invalid.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
InvalidParameterValue.Range	The parameter value is not in the specified range.

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UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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SetSecurityGroupForLoadbalancers

Last updated：2023-08-18 14:28:16

1. API Description

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

This API is used to bind or unbind a security group to or from multiple CLB 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: SetSecurityGroupForLoadbalancers.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerIds.N	Yes	Array of String	Array of CLB instance IDs
SecurityGroup	Yes	String	Security group ID, such as `esg-12345678`
OperationType	Yes	String	ADD: bind security group; DEL: unbind security group

3. Output Parameters

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

4. Example

Example1 Purchasing CLB instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=SetSecurityGroupForLoadbalancers
&LoadBalancerIds.0=lb-mov2697v
&SecurityGroup=esg-0t3h9lmk
&OperationType=ADD
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "88487432-ee86-4e5d-861b-774374121234"
}
}
```

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.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.LBIdNotFound	The CLB instance ID is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
MissingParameter	The parameter is missing.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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SetLoadBalancerSecurityGroups

Last updated：2023-08-18 14:28:16

1. API Description

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

This API is used to configure security groups for a CLB 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: SetLoadBalancerSecurityGroups.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
LoadBalancerId	Yes	String	CLB instance ID
SecurityGroups.N	No	Array of String	Array of security group IDs. You can bind up to 5 security groups to a CLB instance. If you want to unbind all security groups, leave this parameter empty or pass in an empty array

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Purchasing CLB instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=SetLoadBalancerSecurityGroups
&LoadBalancerId=lb-mov2697v
&SecurityGroups.0=esg-0t3h9lmk
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "88487432-ee86-4e5d-861b-774374123f89"
}
}
```

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.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Length	The parameter length is incorrect.
MissingParameter	The parameter is missing.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ENI APIs
CreateNetworkInterface

Last updated：2023-08-18 14:28:13

1. API Description

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

This API is used to create an ENI.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateNetworkInterface.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID, which can be obtained from the `VpcId` field in the

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			returned value of the `DescribeVpcs` API.
NetworkInterfaceName	Yes	String	ENI name, which can contain up to 60 bytes.
SubnetId	Yes	String	Subnet instance ID of the ENI, such as 'subnet-0ap8nwca'.
EcmRegion	Yes	String	ECM region, such as `ap-xian-ecm` .
NetworkInterfaceDescription	No	String	ENI description. You can enter any information within 60 characters.
SecondaryPrivateIpAddressCount	No	Integer	Number of private IP addresses applied for. The total number of private IP addresses cannot exceed the quota.
SecurityGroupIds.N	No	Array of String	The security group to be bound with, such as ['sg-1dd51d'].
PrivateIpAddresses.N	No	Array of PrivateIpAddressSpecification	Information of the specified private IPs. You can specify up to 10 IPs at a time.
Tags.N	No	Array of Tag	List of bound tags, such as [{"Key": "city", "Value": "shanghai"}].

3. Output Parameters

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

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4. Example

Example1 Creating ENI

Input Example

```
https://ecm.tencentcloudapi.com/?Action=CreateNetworkInterface
&VpcId=vpc-1111111
&SubnetId=subnet-22222222
&NetworkInterfaceName=Test
&NetworkInterfaceDescription=Test
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example


```
{
"Response": {
"NetworkInterface": {
"NetworkInterfaceId": "eni-12121212",
"VpcId": "vpc-1111111",
"SubnetId": "subnet-22222222",
"NetworkInterfaceName": "Test",
"NetworkInterfaceDescription": "Test",
"MacAddress": "20:90:6F:62:33:E2",
"PrivateIpAddressSet": [
{
"PrivateIpAddress": "172.16.64.13",
"Primary": true,
"AddressId": "",
"PublicIpAddress": "",
"Description": "",
"IsWanIpBlocked": false,
"State": "PENDING"
}
],
"Attachment": null,
"GroupSet": [],
"Primary": false,
"State": "PENDING",
"Zone": "ap-hangzhou-ecm-1",
"CreatedTime": "",
"Ipv6AddressSet": [],
"EcmRegion": "ap-hangzhou-ecm",
"EniType": 0,
```


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```
"TagSet": []
},
"RequestId": "5cf1a813-d4f8-4e0c-8f90-c155a84a3ea1"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.

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InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Reserved	The parameter value is an object retained by the system.
LimitExceeded	The quota limit is exceeded.
LimitExceeded.EniQuotaLimitExceeded	The number of purchasable ENIs is insufficient.
MissingParameter	The parameter is missing.
MissingParameter.MissingNetworkInterfaceParameter	The request parameters required for ENI operation configuration are missing.
ResourceInUse	The resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeNetworkInterfaces

Last updated：2023-08-18 14:28:13

1. API Description

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

This API is used to query the list of ENIs.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeNetworkInterfaces.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
NetworkInterfaceIds.N	No	Array of String	Queries the ID of the ENI instance, such as `eni-pxir56ns` . Each request supports a maximum of 100 instances. `NetworkInterfaceIds` and `Filters` cannot be specified at the same time.
Filters.N	No	Array of Filter	Filter. `NetworkInterfaceIds` and `Filters` cannot be specified at the same time. vpc-id - String - (Filter) VPC instance ID, such as `vpc-f49l6u0z` . subnet-id - String - (Filter) Subnet instance ID, such as

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			`subnet-f49l6u0z` . network-interface-id - String - (Filter) ENI instance ID, such as `eni-5k56k7k7` . attachment.instance-id - String - (Filter) ID of the bound CVM instance, such as `ein-3nqpdn3i` . groups.security-group-id - String - (Filter) ID of the bound security group instance, such as `sg-f9ekbxeq` . network-interface-name - String - (Filter) ENI instance name. network-interface-description - String - (Filter) ENI instance description. address-ip - String - (Filter) Private IPv4 address. tag-key - String - Required: no - (Filter) Filter by tag key. For directions, see Sample 2. tag:tag-key - String - Required: no - (Filter) Filter by tag key-value pair. Replace `tag-key` with the specific tag key. For directions, see Sample 3. is-primary - Boolean - Required: no - (Filter) Filter by whether it is a primary ENI. true: filter only by primary ENI; false: filter only by secondary ENI. If this parameter is not specified, filtering by both primary and secondary ENIs will be used.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of results to be returned. Default value: 20. Maximum value: 100.
EcmRegion	No	String	ECM region, such as `ap-xian-ecm` .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances.
NetworkInterfaceSet	Array of NetworkInterface	List of instance details. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

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Example1 Querying ENI list

Input Example

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

Output Example


```
{
"Response": {
"NetworkInterfaceSet": [
{
"NetworkInterfaceId": "eni-n1s3wvux",
"NetworkInterfaceName": "String",
"NetworkInterfaceDescription": "String",
"SubnetId": "subnet-0790w1hs",
"VpcId": "vpc-f3khnq0z",
"GroupSet": [],
"Primary": false,
"MacAddress": "20:90:6F:6D:D9:B9",
"State": "AVAILABLE",
"PrivateIpAddressSet": [
{
"PrivateIpAddress": "10.0.0.8",
"Primary": true,
"PublicIpAddress": "",
"AddressId": "",
"Description": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
}
],
"Attachment": null,
"Zone": "ap-hangzhou-ecm-1",
"EcmRegion": "ap-hangzhou-ecm",
"CreatedTime": "2020-08-20 15:26:42",
"Ipv6AddressSet": [],
"TagSet": [],
"EniType": 0
},
{
"NetworkInterfaceId": "eni-f1xjkw1b",
"NetworkInterfaceName": "Security group test ENI",
"NetworkInterfaceDescription": "Security group test ENI description",
"SubnetId": "subnet-0790w1hs",
```


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```
"VpcId": "vpc-f3khnq0z",
"GroupSet": [],
"Primary": false,
"MacAddress": "20:90:6F:69:1E:03",
"State": "AVAILABLE",
"PrivateIpAddressSet": [
{
"PrivateIpAddress": "10.0.0.16",
"Primary": true,
"PublicIpAddress": "",
"AddressId": "",
"Description": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
}
],
"Attachment": null,
"Zone": "ap-hangzhou-ecm-1",
"EcmRegion": "ap-hangzhou-ecm",
"CreatedTime": "2020-08-20 16:02:14",
"Ipv6AddressSet": [],
"TagSet": [],
"EniType": 0
},
{
"NetworkInterfaceId": "eni-rb7kjij1",
"NetworkInterfaceName": "Security group test ENI",
"NetworkInterfaceDescription": "Security group test ENI description",
"SubnetId": "subnet-5gnb2gls",
"VpcId": "vpc-mbnu07m1",
"GroupSet": [],
"Primary": false,
"MacAddress": "20:90:6F:90:0C:EF",
"State": "AVAILABLE",
"PrivateIpAddressSet": [
{
"PrivateIpAddress": "10.0.0.9",
"Primary": true,
"PublicIpAddress": "",
"AddressId": "",
"Description": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
}
],
"Attachment": null,
"Zone": "ap-qingdao-ecm-1",
```


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```
"EcmRegion": "ap-qingdao-ecm",
"CreatedTime": "2020-09-08 10:58:51",
"Ipv6AddressSet": [],
"TagSet": [],
"EniType": 0
}
],
"TotalCount": 3,
"RequestId": "8f7fb33d-642f-43d7-bc8f-2d17efbfb49c"
}
}
```


5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure.UnauthorizedOperation	Authentication failed.
FailedOperation.InternalOperationFailure	Internal error.

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InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
MissingParameter	The parameter is missing.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation	Unsupported operation.

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AttachNetworkInterface

Last updated：2023-08-18 14:28:14

1. API Description

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

This API is used to bind an ENI to a CVM 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: AttachNetworkInterface.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-m6dyj72l` .
InstanceId	Yes	String	Instance ID, such as `ein-r8hr2upy` .
EcmRegion	Yes	String	ECM region, such as `ap-xian-ecm` .

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Binding ENI to CVM instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=AttachNetworkInterface
&NetworkInterfaceId=eni-12121212
&InstanceId=ins-ins-11221122
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
}
}
```

5. Developer Resources

SDK

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

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

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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.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvaildEniID	The ENI ID is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
LimitExceeded	The quota limit is exceeded.
LimitExceeded.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
LimitExceeded.AddressQuotaLimitExceededDailyAllocate	The maximum number of applications has been reached. The maximum number of applications that can be made by a Tencent Cloud account per day in each region is equal to twice the quota.
LimitExceeded.EniQuotaLimitExceeded	The number of purchasable ENIs is insufficient.
LimitExceeded.PrivateIPQuotaLimitExceeded	The number of private IPs exceeds the limit.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AttachmentAlreadyExists	The ENI is already associated with an instance.
UnsupportedOperation.InvalidState	The resource status is invalid.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

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DetachNetworkInterface

Last updated：2023-08-18 14:28:13

1. API Description

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

This API is used to unbind an ENI from a CVM 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: DetachNetworkInterface.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-m6dyj72l` .
InstanceId	Yes	String	Instance ID, such as `ein-hcs7jkg4` .
EcmRegion	Yes	String	ECM region, such as `ap-xian-ecm` .

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Unbinding ENI from CVM instance

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DetachNetworkInterface
&NetworkInterfaceId=eni-12121212
&InstanceId=ins-11221122
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
}
}
```

5. Developer Resources

SDK

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

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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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	The resource status is invalid.

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MigrateNetworkInterface

Last updated：2023-08-18 14:28:13

1. API Description

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

This API is used to migrate an ENI.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: MigrateNetworkInterface.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region, such as `ap-xian-ecm` .
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-m6dyj72l` .
SourceInstanceId	Yes	String	ID of the ECM instance bound to the ENI, such as `ein-r8hr2upy` .
DestinationInstanceId	Yes	String	ID of the destination ECM instance to be migrated.

3. Output Parameters

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

4. Example

Example1 Migrating ENI

Input Example

```
https://ecm.tencentcloudapi.com/?Action=MigrateNetworkInterface
&NetworkInterfaceId=eni-12121212
&SourceInstanceId=ins-11221122
&DestinationInstanceId=ins-11331133
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
}
}
```

5. Developer Resources

SDK

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

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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.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AttachmentNotFound	The instance is not associated.

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AssignPrivateIpAddresses

Last updated：2023-08-18 14:28:14

1. API Description

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

This API is used to apply for a private IP for an ENI.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value API: AssignPrivateIpAddres
Version	Yes	String	Common Params. The value API: 2019-07-19.
Region	No	String	Common Params. This para required for this API.
NetworkInterfaceId	Yes	String	ENI instance ID, such as `e m6dyj72l` .
EcmRegion	Yes	String	ECM region, such as `ap-x`
PrivateIpAddresses.N	No	Array of PrivateIpAddressSpecification	Information of the specified p can specify up to 10 IPs at a provide either this paramete `SecondaryPrivateIpA` or both.

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SecondaryPrivateIpAddressCount	No	Integer	Number of private IP addres You must provide either this `PrivateIpAddresses` , total number of private IP ad exceed the quota.

3. Output Parameters

Parameter Name	Type	Description
PrivateIpAddressSet	Array of PrivateIpAddressSpecification	Private IP details. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Applying for private IP for ENI

Input Example

```
https://ecm.tencentcloudapi.com/?Action=AssignPrivateIpAddresses
&NetworkInterfaceId=eni-12121212
&SecondaryPrivateIpAddressCount=2
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"PrivateIpAddressSet": [
{
"PrivateIpAddress": "172.16.32.237"
},
{
"PrivateIpAddress": "172.16.32.84"
```

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```
}
],
"RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.

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InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.Range	The parameter value is not in the specified range.
LimitExceeded.PrivateIPQuotaLimitExceeded	The number of private IPs exceeds the limit.
ResourceInUse	The resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.InvalidState	The resource status is invalid.

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RemovePrivateIpAddresses

Last updated：2023-08-18 14:28:12

1. API Description

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

This API is used to return the private IPs of an ENI.
To return the secondary private IPs of an ENI, the API will automatically unbind them from the ENI. The primary private IP of the ENI cannot 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: RemovePrivateIpAddresses.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region, such as `ap-xian-ecm` .
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-11112222` .
PrivateIpAddresses.N	Yes	Array of	Information of the specified private

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		PrivateIpAddressSpecification	IPs. You can specify up to 10 IPs 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 Returning the private IPs of ENI

Input Example

```
https://ecm.tencentcloudapi.com/?Action=RemovePrivateIpAddresses
&NetworkInterfaceId=eni-12121212
&PrivateIpAddresses.0.PrivateIpAddress=172.16.32.111
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AttachmentNotFound	The instance is not associated.
UnsupportedOperation.MutexOperationTaskRunning	A task with a mutually exclusive resource is being executed.

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MigratePrivateIpAddress

Last updated：2023-08-18 14:28:12

1. API Description

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

This API is used to migrate a private IP from an ENI.
It migrates a private IP from one ENI to another. Primary IPs cannot be migrated.
The source and destination ENIs must be in the same subnet.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: MigratePrivateIpAddress.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region, such as `ap-xian-ecm` .
SourceNetworkInterfaceId	Yes	String	ID of the ENI instance bound to the private IP, such as `eni-11112222` .
DestinationNetworkInterfaceId	Yes	String	ID of the destination ENI instance to be migrated.

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PrivateIpAddress	Yes	String	Private IP address to be migrated, such as `10.0.0.6` .

3. Output Parameters

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

4. Example

Example1 Migrating private IP from ENI

Input Example

```
https://ecm.tencentcloudapi.com/?Action=MigratePrivateIpAddress
&SourceNetworkInterfaceId=eni-12121212
&DestinationNetworkInterfaceId=eni-13131313
&PrivateIpAddress=172.16.33.109
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
}
}
```

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation	Unsupported operation.

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DeleteNetworkInterface

Last updated：2023-08-18 14:28:13

1. API Description

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

This API is used to delete an ENI.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteNetworkInterface.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-m6dyj72l` .
EcmRegion	Yes	String	ECM region, such as `ap-xian-ecm` .

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Deleting ENI

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteNetworkInterface
&NetworkInterfaceId=eni-12121212
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5cf1a813-d4f8-4e0c-8f90-c155a84a3ea1"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InternalError	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter.MissingNetworkInterfaceParameter	The request parameters required for ENI operation configuration are missing.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation	Unsupported operation.

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ReleaseIpv6Addresses

Last updated：2023-08-18 14:28:12

1. API Description

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

This API is used to release the IPv6 addresses of an ENI.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ReleaseIpv6Addresses.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-m6dyj72l` .
Ipv6Addresses.N	Yes	Array of Ipv6Address	List of the specified IPv6 addresses. You can specify up to 10 IPv6 addresses at a time.

3. Output Parameters

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Parameter Name	Type	Description
TaskId	Integer	Task ID. You can use the `DescribeTaskResult` API to query the task status
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Releasing an IPv6 address

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ReleaseIpv6Addresses
&NetworkInterfaceId=eni-9c8zkfev
&EcmRegion=ap-xian-ecm
&Ipv6Addresses.0.Address=3402:4e00:20:1202:0:8d01:ee9c:3e22
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "75221557-b667-440a-8cfe-ccd1bde2a234",
"TaskId": 3082
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter.MissingModuleParameter	The module operation parameters are incomplete.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AttachmentNotFound	The instance is not associated.

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ModifyIpv6AddressesAttribute

Last updated：2023-08-18 14:28:12

1. API Description

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

This API is used to modify the IPv6 address attributes of an ENI.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyIpv6AddressesAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-m6dyj72l` .
Ipv6Addresses.N	Yes	Array of Ipv6Address	Information of the specified IPv6 addresses.

3. Output Parameters

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

4. Example

Example1 Modifying the IPv6 address attributes of an ENI

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyIpv6AddressesAttribute
&EcmRegion=ap-guangzhou-ecm-cu2
&NetworkInterfaceId=eni-9c8zkfev
&Ipv6Addresses.0.Address=3402:4e00:20:1202::7
&Ipv6Addresses.0.Description=abc
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "57065a05-9d50-476b-9cd6-97b0ddf03766"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AttachmentNotFound	The instance is not associated.

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AssignIpv6Addresses

Last updated：2023-08-18 14:28:14

1. API Description

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

This API is used to apply for an IPv6 address for an ENI.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: AssignIpv6Addresses.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-1snva0vd` . Currently, only the primary ENI will be assigned the ID.
Ipv6Addresses.N	No	Array of Ipv6Address	List of specified IPv6 addresses. You can specify up to 10 IPv6 addresses at a time. The quota is calculated together with that of `Ipv6AddressCount` , a required input parameter alternative to this one.

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Ipv6AddressCount	No	Integer	Number of automatically assigned IPv6 addresses. The total number of private IP addresses cannot exceed the quota. The quota is calculated together with that of `Ipv6Addresses` , a required input parameter alternative to this one.
Ipv6ISP	No	String	Ipv6 ISP. Valid values: `CTCC` : China Telecom `CUCC` : China Unicom `CMCC` : China Mobile

3. Output Parameters

Parameter Name	Type	Description
Ipv6AddressSet	Array of Ipv6Address	List of IPv6 addresses assigned to ENIs.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Assigning IPv6 addresses automatically based on `Ipv6AddressCount`

Input Example

```
https://ecm.tencentcloudapi.com/?Action=AssignIpv6Addresses
&EcmRegion=ap-xian-ecm
&NetworkInterfaceId=eni-1snva0vd
&Ipv6AddressCount=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Ipv6AddressSet": [
{
"Address": "3402:4e00:20:1202:0:8d05:c272:f514",
```

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```
"AddressId": "",
"Primary": false,
"Description": "",
"IsWanIpBlocked": false,
"State": "PENDING"
}
],
"RequestId": "4a8d6fc0-bc48-4394-b1f7-2818a217359a"
}
}
```


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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.

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InvalidParameterValue.InvalidEcmRegion	The region parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.NodeNotSupportIPv6	The node does not support IPv6.
InvalidParameterValue.SubnetConflict	The specified CIDR block conflicts with another subnet in the same VPC.
InvalidParameterValue.UnsupportedRegion	The region is not supported.
InvalidParameterValue.UserNotSupportIPv6	IPv6 is not supported.
LimitExceeded.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
LimitExceeded.CidrBlock	Exceeded the upper limit of the assigned IPv6 IP ranges.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.InvalidState	The resource status is invalid.

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ModifyPrivateIpAddressesAttribute

Last updated：2023-08-18 14:28:12

1. API Description

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

This API is used to modify the private IP attributes of an ENI.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyPrivateIpAddressesAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
NetworkInterfaceId	Yes	String	ENI instance ID, such as `eni-m6dyj72l` .
PrivateIpAddresses.N	Yes	Array of PrivateIpAddressSpecification	Information of the specified private IP addresses.
EcmRegion	Yes	String	Region information of the ECM node, such as `ap-xian-ecm` .

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3. Output Parameters

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

4. Example

Example1 Modifying the private IP attributes of ENI

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyPrivateIpAddressesAttribute
&NetworkInterfaceId=eni-pwbqma5d
&PrivateIpAddresses.0.PrivateIpAddress=192.168.2.7
&PrivateIpAddresses.0.Description=new-name
&EcmRegion="ap-guangzhou-ecm"
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.InvalidState	The resource status is invalid.

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EIP APIs
ReleaseAddresses

Last updated：2023-08-18 14:28:14

1. API Description

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

This API is used to release one or multiple EIPs.
This operation is irreversible. Once you release an EIP, the IP address associated with it will no longer belong to you.
Only EIPs in `UNBIND` status can be released.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ReleaseAddresses.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
AddressIds.N	Yes	Array of String	List of unique IDs of EIPs.

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3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Async task ID (TaskId). You can use the `DescribeTaskResult` API to query the task status.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Releasing EIP

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ReleaseAddresses
&AddressIds.0=eip-11112222
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TaskId": "123",
"RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
}
}
```

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for .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.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.AddressIdNotFound	The IP was not found.
UnsupportedOperation.Malformed	Please check whether the provided IP address is complete.
UnsupportedOperation.StatusNotPermit	This operation cannot be performed in the current status.

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ModifyAddressesBandwidth

Last updated：2023-08-18 14:28:14

1. API Description

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

This API is used to modify the EIP bandwidth.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyAddressesBandwidth.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
AddressIds.N	Yes	Array of String	Unique EIP ID, such as `eip-xxxxxxx`
InternetMaxBandwidthOut	Yes	Integer	Target bandwidth value

3. Output Parameters

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

4. Example

Example1 Modifying EIP bandwidth

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyAddressesBandwidth
&InternetMaxBandwidthOut=1000
&AddressIds.0=eip-11112222
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TaskId": "123",
"RequestId": "24cfceab-3492-482c-b86f-27f598b1b044"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.BandwidthOutOfRange	The bandwidth exceeds the limit.
InvalidParameterValue.InvalidBandwidth	The bandwidth size is invalid.
LimitExceeded	The quota limit is exceeded.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.AddressIdNotFound	The IP was not found.
UnsupportedOperation.StatusNotPermit	This operation cannot be performed in the current status.

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ModifyAddressAttribute

Last updated：2023-08-18 14:28:15

1. API Description

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

This API is used to modify EIP 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: ModifyAddressAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
AddressId	Yes	String	Unique EIP ID, such as `eip-11112222` .
AddressName	No	String	New EIP name, which can contain up to 20 characters.
EipDirectConnection	No	String	Whether "direct access" is enabled for the EIP. TRUE: yes. FALSE: no. Note that this parameter is available only to users who have activated the EIP direct access feature.

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3. Output Parameters

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

4. Example

Example1 Renaming EIP

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyAddressAttribute
&AddressId=eip-11112222
&AddressName=test_eip
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
}
}
```

Example2 Modifying EIP direct access attributes

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifyAddressAttribute
&AddressId=eip-11112222
&EipDirectConnection=FALSE
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

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```
{
"Response": {
"RequestId": "ABCD0BEC-0242-43AF-BB20-270359FB54A7"
}
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.

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InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
InvalidParameterValue.TooLong	The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.AddressIdNotFound	The IP was not found.
UnsupportedOperation.Malformed	Please check whether the provided IP address is complete.
UnsupportedOperation.StatusNotPermit	This operation cannot be performed in the current status.

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DisassociateAddress

Last updated：2023-08-18 14:28:15

1. API Description

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

This API is used to unbind an EIP.
Only EIPs in `BIND` or `BIND_ENI` status can be unbound.
Blocked EIPs cannot be unbound.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DisassociateAddress.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
AddressId	Yes	String	Unique EIP ID, such as `eip-11112222` .
ReallocateNormalPublicIp	No	Boolean	Indicates whether to assign a general public IP after unbinding an EIP. Valid values: TRUE: yes

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			FALSE: no. Default value: FALSE. You can specify this parameter only under the following conditions: You can specify this parameter only when you unbind an EIP from the primary private IP of the primary ENI. An account can reassign a general public IP after unbinding an EIP 10 times a day. More information can be obtained through the `DescribeAddressQuota` API.

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Async task ID (TaskId). You can use the `DescribeTaskResult` API to query the task status.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Unbinding EIP

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DisassociateAddress
&AddressId=eip-11112222
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TaskId": "123",
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
```

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```
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvaildAddressId	The EIP is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.

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InvalidParameterValue.InvalidRegion	The ECM region is invalid.
MissingParameter	The parameter is missing.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.AddressIdNotFound	The IP was not found.
UnsupportedOperation.InstanceIdNotFound	The instance ID is invalid, as the specified instance ID does not exist.
UnsupportedOperation.InstanceIdNotSupported	The instance is not supported.
UnsupportedOperation.QuotaLimitExceeded	The instance specification supports binding only three EIPs.
UnsupportedOperation.StatusNotPermit	This operation cannot be performed in the current status.

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DescribeTaskResult

Last updated：2023-08-18 15:47:46

1. API Description

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

This API is used to query the execution result of an EIP async task.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeTaskResult.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
TaskId	Yes	String	Async task ID.

3. Output Parameters

Parameter Name	Type	Description

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TaskId	String	Async task ID.
Result	String	Execution result. Valid values: SUCCESS; FAILED; RUNNING.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the execution result of async task

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeTaskResult
&TaskId=1528600
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TaskId": "1528600",
"Result": "SUCCESS",
"RequestId": "f2e74569-c189-4396-80ab-1482134a1e52"
}
}
```

5. Developer Resources

SDK

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

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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.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
MissingParameter	The parameter is missing.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeAddresses

Last updated：2023-08-18 14:28:15

1. API Description

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

This API is used to query the list of EIPs.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeAddresses.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
AddressIds.N	No	Array of String	List of unique IDs of EIPs, such as `eip-11112222` . `AddressIds` and `Filters` cannot be specified at the same time.
Filters.N	No	Array of Filter	Each request can contain up to 10 `Filters` and 5 `Filter.Values` . `AddressIds` and `Filters` cannot be specified at the same time. The detailed filters are as follows: address-id - String - Required: no - (Filter) Filter by unique EIP ID, such as `eip-11112222` . address-name - String - Required: no - (Filter) Filter by EIP name.

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			Fuzzy filtering is not supported. address-ip - String - Required: no - (Filter) Filter by EIP IP address. address-status - String - Required: no - (Filter) Filter by EIP status. Value range: see the list of EIP status. instance-id - String - Required: no - (Filter) Filter by the ID of the instance bound to the EIP, such as `ins-11112222` . private-ip-address - String - Required: no - (Filter) Filter by the private IP bound to the EIP. network-interface-id - String - Required: no - (Filter) Filter by ID of the ENI bound to the EIP, such as `eni-11112222` . is-arrears - String - Required: no - (Filter) Filter by whether the EIP is overdue (TRUE: the EIP is overdue | FALSE: the billing status of the EIP is normal)
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of results to be returned. Default value: 20. Maximum value: 100.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible EIPs.
AddressSet	Array of Address	List of EIP details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying EIP by `AddressIds`

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeAddresses
&AddressIds.0=eip-11221122
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

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Output Example

```
{
"Response": {
"TotalCount": 1,
"AddressSet": [
{
"AddressId": "eip-11221122",
"AddressName": "test",
"AddressIp": "123.121.34.33",
"AddressStatus": "BINDED",
"InstanceId": "ins-11221122",
"NetworkInterfaceId": null,
"PrivateAddressIp": null,
"IsArrears": false,
"IsBlocked": false,
"CreatedTime": "2020-01-12T07:52:00Z"
}
],
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

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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.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.Malformed	Please check whether the provided IP address is complete.

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DescribeAddressQuota

Last updated：2023-08-18 14:28:15

1. API Description

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

This API is used to query the quota information of the EIP under your account in the current 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: DescribeAddressQuota.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region

3. Output Parameters

Parameter Name	Type	Description
QuotaSet	Array of	Quota information of EIPs in the account.

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

4. Example

Example1 Querying EIP quota

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeAddressQuota
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"QuotaSet": [
{
"QuotaId": "TOTAL_EIP_QUOTA",
"QuotaCurrent": 0,
"QuotaLimit": 20
},
{
"QuotaId": "DAILY_EIP_APPLY",
"QuotaCurrent": 0,
"QuotaLimit": 40
},
{
"QuotaId": "DAILY_EIP_ASSIGN",
"QuotaCurrent": 0,
"QuotaLimit": 40
}
],
"RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
}
}
```

5. Developer Resources

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SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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AssociateAddress

Last updated：2023-08-18 14:28:16

1. API Description

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

This API is used to bind an EIP to an instance or the specified private IP of an ENI.
Binding an EIP to an instance (ECM) is essentially to bind it to the primary private IP of the primary ENI of the instance.
When you bind an EIP to the private IP of the specified ENI, if the private IP is already bound to an EIP or public IP, a failure will be reported, and you must unbind it first before you can bind it to a new EIP.
Only EIPs in `UNBIND` status can be bound to a private IP.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: AssociateAddress.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
AddressId	Yes	String	Unique EIP ID, such as `eip-11112222` .
InstanceId	No	String	ID of the instance to be bound.

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NetworkInterfaceId	No	String	ID of the ENI to be bound, such as `eni-11112222`. `NetworkInterfaceId` and `InstanceId` cannot be specified at the same time. The ENI ID can be obtained from the `networkInterfaceId` field in the returned value of the `DescribeNetworkInterfaces` API.
PrivateIpAddress	No	String	Private IP to be bound. If you specify `NetworkInterfaceId`, you must also specify `PrivateIpAddress`, which means to bind the EIP to the specified private IP of the specified ENI. You must also make sure that the specified `PrivateIpAddress` is a private IP of the specified `NetworkInterfaceId`. The private IP of the specified ENI can be obtained from the `privateIpAddress` field in the returned value of the `DescribeNetworkInterfaces` API.

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Async task ID (TaskId). You can use the `DescribeTaskResult` API to query the task status.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Binding EIP to instance

This example shows you how to bind an EIP to the primary ENI of an instance with no public IPs.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=AssociateAddress
&AddressId=eip-11112222
&InstanceId=ins-11221122
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

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Output Example

```
{
"Response": {
"TaskId": "123",
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.InvalidStatus	This operation cannot be performed in the current status.
FailedOperation.OperationNotAllow	The current operation is not allowed.

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FailedOperation.PrivateIpAddressUnavailable	The private IP is unavailable.
InvalidParameter	The parameter is incorrect.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.InvalidParameterConflict	The two specified parameters conflict. An EIP can only be bound to an instance or the specified private IP of the specified ENI.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvaildEniID	The ENI ID is invalid.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
LimitExceeded.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
MissingParameter	The parameter is missing.
MissingParameter.MissingAssociateEntity	The entity parameter to be associated is missing.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AddressIdNotFound	The IP was not found.
UnsupportedOperation.AlreadyBindEip	The specified instance has been bound to an EIP. You must unbind it from the current EIP first before you can bind it to another EIP.
UnsupportedOperation.InstanceIdNotFound	The instance ID is invalid, as the specified instance ID does not exist.
UnsupportedOperation.InstanceIdNotSupported	The instance is not supported.

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UnsupportedOperation.InvalidNetworkInterfaceIdNotFound	The specified `NetworkInterfaceId` does not exist, or the specified `PrivateIpAddress` is not on the `NetworkInterfaceId`.
UnsupportedOperation.InvalidPrivateIpAddressAlreadyBindEip	The specified private IP of the specified ENI has already been bound to an EIP. A private IP cannot be bound to more than one EIP.
UnsupportedOperation.Malformed	Please check whether the provided IP address is complete.
UnsupportedOperation.StatusNotPermit	This operation cannot be performed in the current status.

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AllocateAddresses

Last updated：2023-08-18 14:28:16

1. API Description

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

This API is used to apply for one or multiple EIPs.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: AllocateAddresses.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
EcmRegion	Yes	String	ECM region
AddressCount	No	Integer	Number of EIPs. Default value: 1.
InternetServiceProvider	No	String	CMCC: China Mobile CTCC: China Telecom CUCC: China Unicom
InternetMaxBandwidthOut	No	Integer	1–5000 Mbps. Default value: 1 Mbps.

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Tags.N	No	Array of Tag	List of tags to be bound.
InstanceId	No	String	ID of the instance to be bound.
NetworkInterfaceId	No	String	ID of the ENI to be bound, such as `eni-11112222`. `NetworkInterfaceId` and `InstanceId` cannot be specified at the same time. The ENI ID can be obtained from the `networkInterfaceId` field in the returned value of the `DescribeNetworkInterfaces` API.
PrivateIpAddress	No	String	Private IP to be bound. If you specify `NetworkInterfaceId`, you must also specify `PrivateIpAddress`, which means to bind the EIP to the specified private IP of the specified ENI. You must also make sure that the specified `PrivateIpAddress` is a private IP of the specified `NetworkInterfaceId`. The private IP of the specified ENI can be obtained from the `privateIpAddress` field in the returned value of the `DescribeNetworkInterfaces` API.

3. Output Parameters

Parameter Name	Type	Description
AddressSet	Array of String	List of unique IDs of the EIPs applied for. Note: this field may return null, indicating that no valid values can be obtained.
TaskId	String	Async task ID (TaskId). You can use the `DescribeTaskResult` API to query the task status.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating EIP

Input Example

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```
https://ecm.tencentcloudapi.com/?Action=AllocateAddresses
&AddressCount=1
&InternetServiceProvider=CTCC
&EcmRegion=ap-hangzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"AddressSet": [
"eip-11112222"
],
"TaskId": "123",
"RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET
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Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.InvalidStatus	This operation cannot be performed in the current status.
FailedOperation.OperationNotAllow	The current operation is not allowed.
FailedOperation.PrivateIpAddressBinded	The private IP has been bound to an EIP.
FailedOperation.PrivateIpAddressUnavailable	The private IP is unavailable.
InternalError	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.InvalidParameterConflict	The two specified parameters conflict. An EIP can only be bound to an instance or the specified private IP of the specified ENI.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
InvalidParameterValue.InvalidAddressCount	When you bind an ENI synchronously, you can apply for only one EIP at a time.
InvalidParameterValue.InvalidBandwidth	The bandwidth size is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
LimitExceeded	The quota limit is exceeded.
LimitExceeded.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
LimitExceeded.AddressQuotaLimitExceededDailyAllocate	The maximum number of applications has been reached. The maximum number of applications that can be made by a Tencent

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	Cloud account per day in each region is equal to twice the quota.
MissingParameter.MissingPrivateIpAddress	The private IP address is missing.
ResourceInsufficient.IPQuotaNotEnough	Insufficient IP resource.
ResourceNotFound	The resource does not exist.
ResourceNotFound.InstanceNotExist	The instance is invalid.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.InvalidPrivateIpAddressAlreadyBindEip	The specified private IP of the specified ENI has already been bound to an EIP. A private IP cannot be bound to more than one EIP.

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HAVIP APIs
ModifyHaVipAttribute

Last updated：2023-08-18 14:28:11

1. API Description

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

This API is used to modify the attributes of an HAVIP.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifyHaVipAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
HaVipId	Yes	String	Unique HAVIP ID, such as `havip-9o233uri` .
HaVipName	Yes	String	HAVIP name, which can be customized with up to 60 characters.

3. Output Parameters

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

4. Example

Example1 Renaming HAVIP

Input Example

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

{
"HaVipId": "havip-9o233uri",
"HaVipName": "new+name"
}
```

Output Example

```
{
"Response": {
"RequestId": "fcb47621-838b-428e-8c33-6e210d93c451"
}
}
```

5. Developer Resources

SDK

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

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

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- 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
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.TooLong	The parameter value is too long.
ResourceNotFound	The resource does not exist.

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DescribeHaVips

Last updated：2023-08-18 15:47:46

1. API Description

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

This API is used to query the list of HAVIPs.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeHaVips.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
HaVipIds.N	No	Array of String	Array of unique HAVIP IDs, such as `havip-9o233uri` .
Filters.N	No	Array of Filter	Filter. `HaVipIds` and `Filters` cannot be specified at the same time. havip-id - String - Unique HAVIP ID, such as `havip-9o233uri` . havip-name - String - HAVIP name. vpc-id - String - VPC ID of the HAVIP. subnet-id - String - Subnet ID of the HAVIP.
Offset	No	Integer	Offset. Default value: 0.

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Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
EcmRegion	No	String	ECM region. If this parameter is left empty, it will indicate all regions.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible objects.
HaVipSet	Array of HaVip	Array of HAVIP objects. 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 HAVIP list by multiple conditions

Input Example

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

{
"HaVipIds": [
"havip-bk4275i0",
"havip-2kce8v4q"
]
}
```

Output Example

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```
{
"Response": {
"HaVipSet": [
{
"HaVipId": "havip-2kce8v4q",
"HaVipName": "tadfafd",
"Vip": "10.3.3.15",
"VpcId": "vpc-11111111",
"SubnetId": "subnet-11111111",
"NetworkInterfaceId": "eni-7tqc2xgl",
"InstanceId": "ein-1kb08tq6",
"AddressIp": "",
"State": "AVAILABLE",
"Business": "",
"CreatedTime": "2020-04-03 20:00:05"
},
{
"HaVipId": "havip-bk4275i0",
"HaVipName": "22",
"Vip": "10.2.0.14",
"VpcId": "vpc-22222222",
"SubnetId": "subnet-22222222",
"NetworkInterfaceId": "",
"InstanceId": "",
"AddressIp": "",
"Business": "",
"State": "UNBIND",
"CreatedTime": "2020-04-03 20:05:33"
}
],
"TotalCount": 2,
"RequestId": "1c827bf1-837f-4302-b51a-4d538b7ad249"
}
}
```


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.InternalOperationFailure	Internal error.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue.InvaildPageParam	The pagination parameter is invalid.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.TooLong	The parameter value is too long.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DeleteHaVip

Last updated：2023-08-18 14:28:11

1. API Description

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

This API is used to delete an HAVIP.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteHaVip.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
HaVipId	Yes	String	Unique HAVIP ID, such as `havip-9o233uri` .

3. Output Parameters

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

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4. Example

Example1 Deleting HAVIP

Input Example

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

{
"HaVipId": "havip-kekyk044"
}
```

Output Example

```
{
"Response": {
"RequestId": "d7226510-434e-4896-bdcd-fb1234aaafdfa"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

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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.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

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CreateHaVip

Last updated：2023-08-18 14:28:12

1. API Description

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

This API is used to create an HAVIP.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateHaVip.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
VpcId	Yes	String	VPC ID of the HAVIP.
SubnetId	Yes	String	Subnet ID of the HAVIP.
HaVipName	Yes	String	HAVIP name.
Vip	No	String	The specified virtual IP address, which must be within the IP range of the VPC and not in use. It will be automatically assigned if not specified.

3. Output Parameters

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

4. Example

Example1 Creating HAVIP

Input Example

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

{
"VpcId": "vpc-m0c2kcun",
"SubnetId": "subnet-rtmfkg4w",
"HaVipName": "irang_testHaVip"
}
```

Output Example

```
{
"Response": {
"HaVip": {
"AddressIp": "",
"CreatedTime": "2020-10-29 16:54:45",
"HaVipId": "havip-kekyk044",
"HaVipName": "irang_testHaVip",
"InstanceId": "",
"NetworkInterfaceId": "",
"State": "UNBIND",
"SubnetId": "subnet-rtmfkg4w",
"Vip": "172.16.0.17",
"VpcId": "vpc-m0c2kcun",
"Business": "xx"
},
```

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```
"RequestId": "d7226510-434e-4896-bdcd-fb1234aaafdfa"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.ObjectNotCurrentSubnet	The object is not in the current subnet.

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InvalidParameterValue.TooLong	The parameter value is too long.
LimitExceeded	The quota limit is exceeded.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.

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Snapshot APIs
DescribeSnapshots

Last updated：2023-08-18 15:47:44

1. API Description

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

This API is used to query the list of snapshots.

- You can filter results by snapshot ID and the ID and type of the cloud disk for which the snapshot is created. The relationship between different filters is `AND`. For more information on filters, see `Filter`.
- If no parameter is defined, the status of a certain number of snapshots under the current account will be returned. The number is specified by `Limit` and is 20 by default.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSnapshots.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SnapshotIds.N	No	Array of String	List of IDs of the snapshots to be queried. `SnapshotIds` and `Filters` cannot be specified at the same time.

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Filters.N	No	Array of Filter	Filter. `SnapshotIds` and `Filters` cannot be specified at the same time. • snapshot-id - Array of String - Required: no - (Filter) Filter by snapshot ID, such as `snap-11112222` . • snapshot-name - Array of String - Required: no - (Filter) Filter by snapshot name. • snapshot-state - Array of String - Required: no - (Filter) Filter by snapshot status. NORMAL: normal; CREATING: creating; ROLLBACKING: rolling back. • disk-usage - Array of String - Required: no - (Filter) Filter by the type of the cloud disk from which a snapshot is created. SYSTEM_DISK: system disk; DATA_DISK: data disk. • project-id - Array of String - Required: no - (Filter) Filter by the project ID of the cloud disk. • disk-id - Array of String - Required: no - (Filter) Filter by the ID of the cloud disk from which a snapshot is created. • zone - Array of String - Required: no - (Filter) Filter by AZ. • encrypt - Array of String - Required: no - (Filter) Filter by whether a snapshot is created from an encrypted cloud disk. TRUE: yes; FALSE: no. • snapshot-type- Array of String - Required: no - (Filter) Filter by the snapshot type specified in `snapshot-type` . (SHARED_SNAPSHOT: shared snapshot | PRIVATE_SNAPSHOT: private snapshot.)
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on `Limit` , see the relevant section of the API Overview.
OrderField	No	String	Field by which snapshots are sorted. Valid values: • CREATE_TIME: sort by snapshot creation time Snapshots are sorted by creation time by default.
Offset	No	Integer	Offset. Default value: 0. For more information on `Offset` , see the relevant section of the API Overview.
Order	No	String	Sorting order of cloud disks. Valid values: • ASC: ascending • DESC: descending.

3. Output Parameters

Parameter	Type	Description

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Name		
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 snapshots in `NORMAL` status in Guangzhou Zone 2

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeSnapshots
&Filters.0.Name=snapshot-state
&Filters.0.Values.0=NORMAL
&Filters.1.Name=zone
&Filters.1.Values.0=ap-guangzhou-2
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TotalCount": 2,
"RequestId": "4ab150b9-538d-48fb-8821-7fa185f1d07c",
"SnapshotSet": [
{
"Placement": {
"ProjectId": 0,
"Zone": "ap-guangzhou-2"
},
"TimeStartShare": "2020-09-22",
"CopyFromRemote": false,
"IsPermanent": false,
"DiskUsage": "DATA_DISK",
"DeadlineTime": "2019-07-15 00:00:00",
"Percent": 100,
"SnapshotId": "snap-lfo7xxxx",
"ShareReference": 0,
"SnapshotType": "PRIVATE_SNAPSHOT",
```

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```
"DiskSize": 10,
"DiskId": "disk-aq3k1jn0",
"SnapshotName": "auto_disk-aq3k1jn0_20190708_00",
"Images": [],
"CopyingToRegions": [],
"Encrypt": false,
"CreateTime": "2019-07-08 00:03:13",
"ImageCount": 0,
"SnapshotState": "NORMAL"
},
{
"Placement": {
"ProjectId": 0,
"Zone": "ap-guangzhou-2"
},
"TimeStartShare": "2020-09-22",
"CopyFromRemote": false,
"IsPermanent": false,
"DiskUsage": "DATA_DISK",
"DeadlineTime": "2019-07-15 00:00:00",
"Percent": 100,
"SnapshotId": "snap-jt5nxxxx",
"ShareReference": 0,
"SnapshotType": "PRIVATE_SNAPSHOT",
"DiskSize": 10,
"DiskId": "disk-38hlz2p0",
"SnapshotName": "auto_disk-38hlz2p0_20190708_00",
"Images": [],
"CopyingToRegions": [],
"Encrypt": false,
"CreateTime": "2019-07-08 00:03:10",
"ImageCount": 0,
"SnapshotState": "NORMAL"
}
]
}
}
```


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.OperationNotAllow	The current operation is not allowed.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidFilter	The filter is invalid.
MissingParameter	The parameter is missing.

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DeleteSnapshots

Last updated：2023-08-18 14:27:58

1. API Description

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

This API is used to delete a snapshot.

- Only snapshots in the `NORMAL` state can be deleted. To query the state of a snapshot, you can call the DescribeSnapshots API and check the `SnapshotState` field in the response.
- Batch operations are supported. If there is any snapshot that cannot be deleted, the operation will not be performed and a specific error code will 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: DeleteSnapshots.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SnapshotIds.N	Yes	Array of String	List of IDs of the snapshots to be deleted, which can be queried through DescribeSnapshots.
DeleteBindImages	No	Boolean	Whether to force delete the images associated with the snapshot.

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3. Output Parameters

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

4. Example

Example1 Deleting snapshot

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteSnapshots
&SnapshotIds.0=snap-gybrif0z
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "b4770576-d9eb-4689-0866-5a1f8200a722"
}
}
```

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	The parameter value is incorrect.
InvalidParameterValue.InvalidSnapshot	InvalidParameterValue.InvalidSnapshot
InvalidParameterValue.InvalidSnapshotId	InvalidParameterValue.InvalidSnapshotId
MissingParameter	The parameter is missing.
ResourceInUse	The resource is in use.
UnauthorizedOperation.MFAExpired	UnauthorizedOperation.MFAExpired
UnsupportedOperation.SnapHasShared	UnsupportedOperation.SnapHasShared
UnsupportedOperation.SnapshotHasBindedImage	UnsupportedOperation.SnapshotHasBindedImage

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Security Group APIs
CreateSecurityGroup

Last updated：2023-08-18 14:28:00

1. API Description

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

This API is used to create a security group.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateSecurityGroup.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
GroupName	Yes	String	Security group name, which can be customized with up to 60 characters.
GroupDescription	Yes	String	Security group remarks, which can contain up to 100 characters.
Tags.N	No	Array of Tag	List of bound tags, such as [{"Key": "city", "Value": "shanghai"}].

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3. Output Parameters

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

4. Example

Example1 Creating security group

Input Example

```
https://ecm.tencentcloudapi.com/?Action=CreateSecurityGroup
&GroupName=TestGroup
&GroupDescription=test-group-desc
&Tags.0.Key=city
&Tags.0.Value=shanghai
&<Common request parameters>
```

Output Example

```
{
"Response": {
"SecurityGroup": {
"SecurityGroupId": "esg-3g7ftkp3",
"SecurityGroupName": "TestGroup",
"SecurityGroupDesc": "test-group-desc",
"TagSet": [
{
"Key": "city",
"Value": "shanghai"
}
]
}
}
}
```

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5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
MissingParameter	The parameter is missing.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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ReplaceSecurityGroupPolicy

Last updated：2023-08-18 14:27:59

1. API Description

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

This API is used to replace a single routing rule of a security group. You can replace only one rule in a single direction in one request and must specify the index (PolicyIndex).

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ReplaceSecurityGroupPolicy.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupId	Yes	String	Security group instance ID, such as `esg-33ocnj9n` , which can be obtained through the `DescribeSecurityGroups` API
SecurityGroupPolicySet	Yes	SecurityGroupPolicySet	Security group policy set object.

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3. Output Parameters

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

4. Example

Example1 Replacing one routing policy of security group

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ReplaceSecurityGroupPolicy
&SecurityGroupId=esg-ohuuioma
&SecurityGroupPolicySet.Version=20
&SecurityGroupPolicySet.Egress.0.PolicyIndex=1
&SecurityGroupPolicySet.Egress.0.Protocol=tcp
&SecurityGroupPolicySet.Egress.0.Port=8080
&SecurityGroupPolicySet.Egress.0.Action=accept
&SecurityGroupPolicySet.Egress.0.CidrBlock=10.0.0.0/24
&SecurityGroupPolicySet.Egress.0.PolicyDescription=TestPolicy
&<Common request parameters>
```

Output Example

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

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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.VersionMismatch	The specified version number of the security group rule is inconsistent with the latest version.

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ModifySecurityGroupPolicies

Last updated：2023-08-18 14:27:59

1. API Description

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

This API is used to modify the outbound and inbound rules of a security group.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifySecurityGroupPolicies.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupId	Yes	String	Security group instance ID, such as `esg-33ocnj9n` , which can be obtained through the `DescribeSecurityGroups` API.
SecurityGroupPolicySet	Yes	SecurityGroupPolicySet	Security group policy set. You must specify both new egress and ingress policies for the `SecurityGroupPolicySet` object.

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			You cannot customize the index (PolicyIndex) of the `SecurityGroupPolicy` object.
SortPolicys	No	Boolean	Whether security group sorting is supported. `True` indicates yes. If `SortPolicys` doesn't exist or is set to `False`, the security group policy can be modified.

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 outbound and inbound rules of security group

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifySecurityGroupPolicies
&SecurityGroupId=esg-ohuuioma
&SecurityGroupPolicySet.Egress.0.Protocol=TCP
&SecurityGroupPolicySet.Egress.0.Port=80
&SecurityGroupPolicySet.Egress.0.Action=accept
&SecurityGroupPolicySet.Egress.0.CidrBlock=10.0.0.0/16
&SecurityGroupPolicySet.Egress.0.PolicyDescription=TestPolicy
&SecurityGroupPolicySet.Ingress.0.Protocol=TCP
&SecurityGroupPolicySet.Ingress.0.Port=8080
&SecurityGroupPolicySet.Ingress.0.Action=accept
&SecurityGroupPolicySet.Ingress.0.CidrBlock=10.0.0.0/16
&SecurityGroupPolicySet.Ingress.0.PolicyDescription=Test
&<Common request parameters>
```

Output Example

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

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
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
LimitExceeded	The quota limit is exceeded.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.

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ModifySecurityGroupAttribute

Last updated：2023-08-18 14:27:59

1. API Description

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

This API is used to modify the attributes of a security group.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: ModifySecurityGroupAttribute.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupId	Yes	String	Security group instance ID, such as `esg-33ocnj9n` , which can be obtained through the `DescribeSecurityGroups` API.
GroupName	No	String	Security group name, which can be customized with up to 60 characters.
GroupDescription	No	String	Security group remarks, which can contain up to 100 characters.

3. Output Parameters

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

4. Example

Example1 Modifying security group attributes

Input Example

```
https://ecm.tencentcloudapi.com/?Action=ModifySecurityGroupAttribute
&Version=2019-07-19
&SecurityGroupId=esg-33ocnj9n
&GroupName=TestGroupNewName
&GroupDescription=test-group-desc
&<Common request parameters>
```

Output Example

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

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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.

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DescribeSecurityGroups

Last updated：2023-08-18 14:27:59

1. API Description

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

This API is used to view a security group.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSecurityGroups.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupIds.N	No	Array of String	Security group instance ID, such as `esg-33ocnj9n` , which can be obtained through DescribeSecurityGroups. Each request supports a maximum of 100 instances. `SecurityGroupIds` and `Filters` cannot be specified at the same time.
Filters.N	No	Array of Filter	Filter. `SecurityGroupIds` and `Filters` cannot be specified at the same time. security-group-id - String - (Filter) Security group ID. security-group-name - String - (Filter) Security group name. tag-key - String - Required: no - (Filter) Filter by tag key.

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			tag:tag-key - String - Required: no - (Filter) Filter by tag key-value pair. Replace `tag-key` with the specific tag key.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of results to be returned. Default value: 20. Maximum value: 100.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances.
SecurityGroupSet	Array of SecurityGroup	Security group object.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing security group

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeSecurityGroups
&Limit=1
&Filters.0.Name=security-group-id
&Filters.0.Values.0=esg-05bb4upy
&Filters.1.Name=security-group-name
&Filters.1.Values.0=TestGroup
&<Common request parameters>
```

Output Example

```
{
"Response": {
"SecurityGroupSet": [
{
"SecurityGroupId": "esg-05bb4upy",
"SecurityGroupName": "TestGroup",
```

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```
"SecurityGroupDesc": "test-group-desc",
"IsDefault": "true",
"TagSet": []
}
],
"TotalCount": 1,
"RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
}
}
```


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.UnauthorizedOperation	Authentication failed.
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.

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InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeSecurityGroupPolicies

Last updated：2023-08-18 14:27:59

1. API Description

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

This API is used to query a security group rule.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSecurityGroupPolicies.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupId	Yes	String	Security group instance ID, such as `esg-33ocnj9n` , which can be obtained through DescribeSecurityGroups.

3. Output Parameters

Parameter Name	Type	Description
SecurityGroupPolicySet	SecurityGroupPolicySet	Security group policy set.

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

4. Example

Example1 Querying security group rule

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeSecurityGroupPolicies
&SecurityGroupId=esg-ohuuioma
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b",
"SecurityGroupPolicySet": {
"Version": "1",
"Egress": [
{
"PolicyIndex": 1,
"Protocol": "tcp",
"Port": "80",
"ServiceTemplate": {
"ServiceId": "",
"ServiceGroupId": ""
},
"SecurityGroupId": "",
"CidrBlock": "20.0.0.0/16",
"Action": "ACCEPT",
"PolicyDescription": "test1",
"AddressTemplate": {
"AddressId": "",
"AddressGroupId": ""
}
}
],
"Ingress": [
{
"PolicyIndex": 2,
"Protocol": "tcp",
"Port": "8080",
```

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```
"CidrBlock": "10.0.0.0/16",
"ServiceTemplate": {
"ServiceId": "",
"ServiceGroupId": ""
},
"SecurityGroupId": "",
"Action": "ACCEPT",
"PolicyDescription": "test-2",
"AddressTemplate": {
"AddressId": "",
"AddressGroupId": ""
}
}
]
}
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.

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DescribeSecurityGroupLimits

Last updated：2023-08-18 14:27:59

1. API Description

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

This API is used to query the security group quota.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSecurityGroupLimits.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

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

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4. Example

Example1 Querying security group quota

Input Example

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

Output Example

```
{
"Response": {
"SecurityGroupLimitSet": {
"SecurityGroupLimit": 50,
"SecurityGroupPolicyLimit": 100,
"SecurityGroupInstanceLimit": 2000,
"InstanceSecurityGroupLimit": 2000,
"ReferedSecurityGroupLimit": 10,
"SecurityGroupModuleLimit": 10,
"ModuleSecurityGroupLimit": 10
},
"RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeSecurityGroupAssociationStatistics

Last updated：2023-08-18 14:28:00

1. API Description

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

This API is used to query statistics on the instances associated with a security group.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeSecurityGroupAssociationStatistics.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupIds.N	Yes	Array of String	Security instance ID, such as `esg-33ocnj9n` , which can be obtained through DescribeSecurityGroups.

3. Output Parameters

Parameter Name	Type	Description
SecurityGroupAssociationStatisticsSet	Array of	Statistics on the instances

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	SecurityGroupAssociationStatistics	associated with the security group.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying statistics on instances associated with security group

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeSecurityGroupAssociationStatistics
&SecurityGroupIds.0=esg-ohuuioma
&SecurityGroupIds.1=esg-2quou3gv
&<Common request parameters>
```

Output Example

```
{
"Response": {
"SecurityGroupAssociationStatisticsSet": [
{
"SecurityGroupId": "esg-ohuuioma",
"ECM": 0,
"Module": 1,
"ENI": 0,
"SG": 1,
"CLB": 0,
"TotalCount": 1
},
{
"SecurityGroupId": "esg-2quou3gv",
"ECM": 1,
"Module": 1,
"ENI": 0,
"SG": 1,
"CLB": 0,
"TotalCount": 2
}
]
```

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```
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
ResourceNotFound	The resource does not exist.

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DeleteSecurityGroupPolicies

Last updated：2023-08-18 14:28:00

1. API Description

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

`SecurityGroupPolicySet.Version` is used to specify the version of the security group to be manipulated. If the `Version` value passed in differs from the current latest version of the security group, a failure will be returned. If `Version` is not passed in, the policy of the specified `PolicyIndex` will be deleted directly.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteSecurityGroupPolicies.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupId	Yes	String	Security group instance ID, such as `esg-33ocnj9n` , which can be obtained through the `DescribeSecurityGroups` API.
SecurityGroupPolicySet	Yes	SecurityGroupPolicySet	Security group policy set. You can only delete one or more policies in one

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			direction in one request. Both PolicyIndex-matching deletion and security group policy-matching deletion methods are supported. You can use only one matching method in one request.

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 the inbound rule of security group based on rule matching

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteSecurityGroupPolicies
&SecurityGroupId=esg-ohuuioma
&SecurityGroupPolicySet.Version=37
&SecurityGroupPolicySet.Ingress.0.Port=80
&SecurityGroupPolicySet.Ingress.0.Protocol=tcp
&SecurityGroupPolicySet.Ingress.0.CidrBlock=10.0.0.0/16
&SecurityGroupPolicySet.Ingress.0.Action=accept
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

Example2 Deleting the outbound rule of security group based on rule matching

Input Example

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```
https://ecm.tencentcloudapi.com/?Action=DeleteSecurityGroupPolicies
&SecurityGroupId=esg-ohuuioma
&SecurityGroupPolicySet.Version=38
&SecurityGroupPolicySet.Egress.0.Protocol=tcp
&SecurityGroupPolicySet.Egress.0.Port=80
&SecurityGroupPolicySet.Egress.0.CidrBlock=10.9.89.9/25
&SecurityGroupPolicySet.Egress.0.Action=accept
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

Example3 Deleting the inbound rule of security group based on index matching

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteSecurityGroupPolicies
&SecurityGroupId=esg-ohuuioma
&SecurityGroupPolicySet.Version=39
&SecurityGroupPolicySet.Ingress.0.PolicyIndex=0
&SecurityGroupPolicySet.Ingress.1.PolicyIndex=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

Example4 Deleting the outbound rule of security group based on index matching

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteSecurityGroupPolicies
&SecurityGroupId=esg-ohuuioma
&SecurityGroupPolicySet.Version=40
```

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```
&SecurityGroupPolicySet.Egress.0.PolicyIndex=0
&SecurityGroupPolicySet.Egress.1.PolicyIndex=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
}
}
```

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.InternalOperationFailure	Internal error.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.

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InvalidParameter.InvalidDataFormat	The data format is incorrect.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.VersionMismatch	The specified version number of the security group rule is inconsistent with the latest version.

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DeleteSecurityGroup

Last updated：2023-08-18 14:28:00

1. API Description

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

Only security groups under the current account can be deleted.
A security group cannot be deleted directly if its instance ID is used in the policy of another security group. In this case, you need to modify the policy first before deleting the security group.
Deleted security groups cannot be recovered. Therefore, call this API with caution.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteSecurityGroup.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupId	Yes	String	Security group instance ID, such as `esg-33ocnj9n` , which can be obtained through the `DescribeSecurityGroups` API.

3. Output Parameters

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

4. Example

Example1 Deleting security group

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DeleteSecurityGroup
&Version=2019-07-19
&SecurityGroupId=esg-kxxx1gb1
&<Common request parameters>
```

Output Example

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

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 C++

Command Line Interface

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6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.Malformed	The input parameter format is invalid.
MissingParameter	The parameter is missing.
ResourceInUse	The resource is in use.
ResourceNotFound	The resource does not exist.

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CreateSecurityGroupPolicies

Last updated：2023-08-18 14:28:00

1. API Description

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

This API is used to create a security group policy.

In the `SecurityGroupPolicySet` parameter:

- `Version`: the version number of a security group policy, which automatically increases by one each time you update the security policy, to prevent expiration of the updated routing policies. If it is left empty, any conflicts will be ignored.
- When creating the `Egress` and `Ingress` polices,
  - `Protocol`: `TCP`, `UDP`, `ICMP`, `GRE`, or `ALL`.
  - `CidrBlock`: a CIDR block in the correct format. In a classic network, if a `CidrBlock` contains private IPs on Tencent Cloud for devices under your account other than CVMs, it does not mean this policy allows you to access these devices. The network isolation policies between tenants take priority over the private network policies in security groups.
  - `SecurityGroupId`: ID of the security group. It can be the ID of security group to be modified, or the ID of other security group in the same project. All private IPs of all CVMs under the security group will be covered. If this field is used, the policy will automatically change according to the CVM associated with the group ID while being used to match network messages. You don't need to change it manually.
  - `Port`: a single port number such as 80, or a port range in the format of "8000-8010". You may use this field only if the `Protocol` field takes the value `TCP` or `UDP`. Otherwise `Protocol` and `Port` are mutually exclusive.
  - `Action`: only allows `ACCEPT` or `DROP`.
  - `CidrBlock`, `SecurityGroupId`, and `AddressTemplate` are mutually exclusive. `Protocol` + `Port` and `ServiceTemplate` are mutually exclusive.
  - You can only create policies in one direction in each request. To specify the `PolicyIndex` parameter, use the same index number in policies.

Default API request rate limit: 20 requests/sec.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateSecurityGroupPolicies.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
SecurityGroupId	Yes	String	Security group instance ID, such as `esg-33ocnj9n` , which can be obtained through the `DescribeSecurityGroups` API.
SecurityGroupPolicySet	Yes	SecurityGroupPolicySet	Security group policy set.

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 outbound policy to security group

Input Example

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```
https://ecm.tencentcloudapi.com/?Action=CreateSecurityGroupPolicies
&SecurityGroupId=esg-ohuuioma
&SecurityGroupPolicySet.Version=1
&SecurityGroupPolicySet.Egress.0.PolicyIndex=1
&SecurityGroupPolicySet.Egress.0.Protocol=TCP
&SecurityGroupPolicySet.Egress.0.Port=80
&SecurityGroupPolicySet.Egress.0.Action=accept
&SecurityGroupPolicySet.Egress.0.CidrBlock=10.0.0.0/16
&SecurityGroupPolicySet.Egress.0.PolicyDescription=TestPolicy
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "53ee3ed3-c9ed-48ba-8a57-8624b9c0d3b8"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
LimitExceeded	The quota limit is exceeded.
LimitExceeded.SecurityGroupPolicySet	The number of security group rules exceeds the upper limit.
MissingParameter	The parameter is missing.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation.DuplicatePolicy	The security group policy is duplicate.
UnsupportedOperation.VersionMismatch	The specified version number of the security group rule is inconsistent with the latest version.

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Key APIs
DisassociateInstancesKeyPairs

Last updated：2023-08-18 14:28:06

1. API Description

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

This API is used to unbind a key pair from 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: DisassociateInstancesKeyPairs.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIds.N	Yes	Array of String	You can get available instance IDs in the following ways: Log in to the console to query instance IDs. Get the instance IDs from the `InstanceId` field in the information returned by the `DescribeInstances` API.
KeyIds.N	Yes	Array of String	List of key pair IDs. Each request can contain up to 100 key pairs. The key pair ID takes the form of `skey-11112222`.

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			You can get available key IDs in the following ways: Log in to the console to query key IDs. Get the key pair IDs from the `KeyId` field in the information returned by the `DescribeKeyPairs` API.
ForceStop	No	Boolean	Whether to force shut down the running instance. We recommend you manually shut down the running instance before unbinding the key. Valid values: TRUE: yes. FALSE: no. Default value: FALSE.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Unbinding key pair

Input Example

```
POST / HTTP/1.1
Host: ecm.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DisassociateInstancesKeyPairs
<Common request parameters>

{
"InstanceIds": [
"ein-ss23fw23"
],
"KeyIds": [
"skey-3cvmq2vn"
]
}
```

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Output Example

```
{
"Response": {
"RequestId": "d40cdb72-7bc0-4b48-b3aa-25e8401f6999"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InstanceIdNotSupported	The instance does not support the current operation.
InvalidParameterValue.InvalidKeyPairId	Invalid key ID.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.

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MissingParameter	The parameter is missing.

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CreateKeyPair

Last updated：2023-08-18 14:28:06

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to create an `OpenSSH RSA` key pair, which can be used to log in to a Linux 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: CreateKeyPair.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
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.

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RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating key pair

Input Example

```
POST / HTTP/1.1
Host: ecm.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateKeyPair
<Common request parameters>

{
"KeyName": "tencent"
}
```

Output Example

```
{
"Response": {
"KeyPair": {
"KeyId": "skey-mv9yzyjj",
"Description": "",
"CreatedTime": "2020-09-22T00:00:00+00:00",
"KeyName": "Tencent",
"AssociatedInstanceIds": [],
"PrivateKey": "-----BEGIN RSA PRIVATE KEY-----\nMIICXgIBAAKBgQDP0Yw2T4itUKOJQIK69
c1Asy1UO88cxEbujR5Jbr0e/Ey1v4ZK\nAUzDnsBnFlf4hKPA1YvMB8RBYj4GcLtM7PrKnBNNram8rgl7
3X/klOO8oqKv+J/X\nUA7KHH1Y6wcn1RTRTMdDHbGhW1q/UpfeylNTbf+wEIWhEfaL5FKQm4hqCwIDAQA
B\nAoGBAJEvSu5SaCD02hs0F2C4Aln2E2/qjMoDEa7spcEVfUhdaNX8ZLvk5pUvnikm\nwfSb7a71QUIc
Fu66zKxBK4kVcirBRCR8nTAQbQ6AhXQYP+y6ihZ9Z/g6BBEeqCpV\nuGPmKnhdxdJ8Al2huEZKJFUQhKM
8XdP7dqn6yFDm0L2sTK6RAkEA9IbhP4/2CVSC\n6d8j5nj3ejPx25R3wc4G+st1tZn1O/TRqUknbVEvsx
ZC63bRjHiw086QIWr61L8f\nqQBLZ58DMwJBANmRv3aHVxv5sMlV0F3hD5ZgWEDIIjxD7oiBzU1rqvF6O
pTQc1cF\nrnwxAXDtYYJ75B8qQEL1ph/zIE5YW0hlfckCQQCyVTwpUyCopU3kqqxQBaDXKtMU\nxS6h1V
QZzBDIpMPJOj8+Ku/qNe+HuJCNkVY6EDtF/bv340GTrt+0LVbQ95MpAkEA\nxcvwUdTXB9LnuxKuHTsoD
aFHepW4MivcJvRC7njM7z4dFf+wbFP4/mUbF0xoUtVJ\nXl/uDjH/tpo1K6S+UEIcqQJAfLQywCQdZ/qO
Jn0PwxiOhwniikSnZuZPNSw8T+kg\n/oxijESOLAJBnt3S/g+D530Enjitvfc9mEB7mh0VmwWvPg==\n-
----END RSA PRIVATE KEY-----\n",
"ProjectId": 0,
"PublicKey": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAAAgQDP0Yw2T4itUKOJQIK69c1Asy1UO88
cxEbujR5Jbr0e/Ey1v4ZKAUzDnsBnFlf4hKPA1YvMB8RBYj4GcLtM7PrKnBNNram8rgl73X/klOO8oqKv
```

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```
+J/XUA7KHH1Y6wcn1RTRTMdDHbGhW1q/UpfeylNTbf+wEIWhEfaL5FKQm4hqCw== skey_112168"
},
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidKeyPairName	Invalid key name.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
MissingParameter	The parameter is missing.

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Other API DescribePeakNetworkOverview

Last updated：2023-08-18 15:47:45

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to get the peak network data.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribePeakNetworkOverview.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
StartTime	No	String	Start time (xxxx-xx-xx), such as `2019-08-14`. It is 7 days ago by default and should not be more than 30 days ago.
EndTime	No	String	End time (xxxx-xx-xx), such as `2019-08-14`. It is yesterday by default and should not be more than 30 days ago. When the time period between the start time and end time is within 1 day, data at the 1-minute granularity will be returned; when the time period is within 7 days, data at

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			the 5-minute granularity will be returned; otherwise, data at the 1-hour granularity will be returned.
Filters.N	No	Array of Filter	Filter. region String Required: no (Filter) Filter by region. Fuzzy match is not supported. Note: you need to enter the ECM region to be queried before data can be returned. area String Required: no (Filter) Filter by region. Fuzzy match is not supported. Regions include `china-central` , `china-east` , etc. You can call `DescribeNode` to get the information of all regions. You can also use `ALL_REGION` to indicate all regions. isp String Required: no (Filter) Filter region traffic by ISP. ISPs include CTCC, CUCC, and CMCC. This parameter must be used together with `area` , and you can specify only one ISP at a time. You can specify either `region` or `area` .
Period	No	Integer	Statistical period in seconds. Valid values: 60, 300.

3. Output Parameters

Parameter Name	Type	Description
PeakNetworkRegionSet	Array of PeakNetworkRegionInfo	Array of network peaks. Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting peak network data

This example shows you how to get the peak network data.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribePeakNetworkOverview
&StartTime=2020-09-04
&EndTime=2020-09-04
```

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```
&Filters.0.Name=region
&Filters.0.Values.0=ap-zhengzhou-ecm
&<Common request parameters>
```

Output Example


```
{
"Response": {
"RequestId": "ee2849f2-facd-4f84-a0ab-bec49edda5fc",
"PeakNetworkRegionSet": [
{
"PeakNetworkSet": [
{
"PeakInNetwork": "31467.2",
"RecordTime": "2020-09-04 00:00:00",
"PeakOutNetwork": "32461.6"
},
{
"PeakInNetwork": "25255.2",
"RecordTime": "2020-09-04 00:05:00",
"PeakOutNetwork": "31626.4"
},
{
"PeakInNetwork": "24559.2",
"RecordTime": "2020-09-04 00:10:00",
"PeakOutNetwork": "30908.0"
},
{
"PeakInNetwork": "24356.8",
"RecordTime": "2020-09-04 00:15:00",
"PeakOutNetwork": "31393.6"
},
{
"PeakInNetwork": "28112.0",
"RecordTime": "2020-09-04 00:20:00",
"PeakOutNetwork": "33372.0"
},
{
"PeakInNetwork": "28352.8",
"RecordTime": "2020-09-04 00:25:00",
"PeakOutNetwork": "32520.0"
},
{
"PeakInNetwork": "25950.4",
"RecordTime": "2020-09-04 00:30:00",
"PeakOutNetwork": "30731.2"
```


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```
},
{
"PeakInNetwork": "29326.4",
"RecordTime": "2020-09-04 00:35:00",
"PeakOutNetwork": "39581.6"
},
{
"PeakInNetwork": "30898.4",
"RecordTime": "2020-09-04 00:40:00",
"PeakOutNetwork": "40880.8"
},
{
"PeakInNetwork": "30900.8",
"RecordTime": "2020-09-04 00:45:00",
"PeakOutNetwork": "35427.2"
},
{
"PeakInNetwork": "31771.2",
"RecordTime": "2020-09-04 00:50:00",
"PeakOutNetwork": "37540.0"
}
],
"Region": "ap-zhengzhou-ecm"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

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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.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidTime	The time is invalid.
MissingParameter.MissingOverViewParameter	The request parameters required to get the configuration of the overview page are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribePeakBaseOverview

Last updated：2023-08-18 14:28:03

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to get the peak data of basic information such as CPU, memory, and 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: DescribePeakBaseOverview.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
StartTime	No	String	Start time (xxxx-xx-xx), such as `2019-08-14`. It is 7 days ago by default and should not be more than 90 days ago.
EndTime	No	String	End time (xxxx-xx-xx), such as `2019-08-14`. It is yesterday by default and should not be more than 90 days ago. When the time period between the start time and end time is within 30 days, data at the 1-hour granularity will be returned; otherwise, data at the 3-hour granularity will be returned.

3. Output Parameters

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Parameter Name	Type	Description
PeakFamilyInfoSet	Array of PeakFamilyInfo	List of basic peaks. 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 basic data on overview page

This example shows you how to query the basic data on the overview page.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribePeakBaseOverview
&StartTime=2020-09-04
&EndTime=2020-09-04
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d043adf2-ee74-418a-a1a5-5c63a052b481",
"PeakFamilyInfoSet": [
{
"InstanceFamily": {
"InstanceFamilyTypeName": "Standard S4",
"InstanceFamilyType": "S4"
},
"PeakBaseSet": [
{
"PeakCpuNum": 8018,
"RecordTime": "2020-09-04 00:00:00",
"PeakMemoryNum": 16044,
"PeakStorageNum": 90676
},
{
"PeakCpuNum": 8018,
"RecordTime": "2020-09-04 01:00:00",
"PeakMemoryNum": 16044,
```

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```
"PeakStorageNum": 90676
},
{
"PeakCpuNum": 8018,
"RecordTime": "2020-09-04 02:00:00",
"PeakMemoryNum": 16044,
"PeakStorageNum": 90676
},
{
"PeakCpuNum": 8018,
"RecordTime": "2020-09-04 03:00:00",
"PeakMemoryNum": 16044,
"PeakStorageNum": 90676
},
{
"PeakCpuNum": 8018,
"RecordTime": "2020-09-04 04:00:00",
"PeakMemoryNum": 16044,
"PeakStorageNum": 90676
},
{
"PeakCpuNum": 8018,
"RecordTime": "2020-09-04 05:00:00",
"PeakMemoryNum": 16044,
"PeakStorageNum": 90676
},
{
"PeakCpuNum": 8018,
"RecordTime": "2020-09-04 06:00:00",
"PeakMemoryNum": 16044,
"PeakStorageNum": 90676
},
{
"PeakCpuNum": 8018,
"RecordTime": "2020-09-04 07:00:00",
"PeakMemoryNum": 16044,
"PeakStorageNum": 90676
}
]
},
{
"InstanceFamily": {
"InstanceFamilyTypeName": "Standard SN3ne",
"InstanceFamilyType": "SN3ne"
},
"PeakBaseSet": [
{
```


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```
"PeakCpuNum": 433,
"RecordTime": "2020-09-04 00:00:00",
"PeakMemoryNum": 882,
"PeakStorageNum": 5529
},
{
"PeakCpuNum": 433,
"RecordTime": "2020-09-04 01:00:00",
"PeakMemoryNum": 882,
"PeakStorageNum": 5529
},
{
"PeakCpuNum": 433,
"RecordTime": "2020-09-04 02:00:00",
"PeakMemoryNum": 882,
"PeakStorageNum": 5529
},
{
"PeakCpuNum": 433,
"RecordTime": "2020-09-04 03:00:00",
"PeakMemoryNum": 882,
"PeakStorageNum": 5529
},
{
"PeakCpuNum": 433,
"RecordTime": "2020-09-04 04:00:00",
"PeakMemoryNum": 882,
"PeakStorageNum": 5529
},
{
"PeakCpuNum": 433,
"RecordTime": "2020-09-04 05:00:00",
"PeakMemoryNum": 882,
"PeakStorageNum": 5529
},
{
"PeakCpuNum": 433,
"RecordTime": "2020-09-04 06:00:00",
"PeakMemoryNum": 882,
"PeakStorageNum": 5529
},
{
"PeakCpuNum": 433,
"RecordTime": "2020-09-04 07:00:00",
"PeakMemoryNum": 882,
"PeakStorageNum": 5529
}
```


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```
]
}
]
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidTime	The time is invalid.
MissingParameter.MissingOverViewParameter	The request parameters required to get the configuration of the overview page are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeInstanceTypeConfig

Last updated：2023-08-18 14:28:04

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to get the list of model configurations.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeInstanceTypeConfig.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number
InstanceTypeConfigSet	Array of InstanceTypeConfig	Model configuration information Note: this field may return null, indicating that no valid values

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		can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Viewing model configuration list

This example shows you how to view the list of model configurations.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeInstanceTypeConfig
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "9d0f0dc6-8fec-44fc-82f1-0553144a000b",
"InstanceTypeConfigSet": [
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.2XLARGE16",
"Vcpu": 8,
"Memory": 16,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
```

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```
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.2XLARGE32",
"Vcpu": 8,
"Memory": 32,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.2XLARGE64",
"Vcpu": 8,
"Memory": 64,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.4XLARGE32",
"Vcpu": 16,
"Memory": 32,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
```


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```
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.4XLARGE64",
"Vcpu": 16,
"Memory": 64,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.6XLARGE48",
"Vcpu": 24,
"Memory": 48,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.6XLARGE64",
"Vcpu": 24,
"Memory": 64,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
```


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```
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.8XLARGE64",
"Vcpu": 32,
"Memory": 64,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.LARGE16",
"Vcpu": 4,
"Memory": 16,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.LARGE32",
"Vcpu": 4,
"Memory": 32,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
```


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```
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.LARGE8",
"Vcpu": 4,
"Memory": 8,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.MEDIUM16",
"Vcpu": 2,
"Memory": 16,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.MEDIUM4",
"Vcpu": 2,
"Memory": 4,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
```


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```
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.MEDIUM8",
"Vcpu": 2,
"Memory": 8,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.SMALL2",
"Vcpu": 1,
"Memory": 2,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.SMALL4",
"Vcpu": 1,
"Memory": 4,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
},
{
```


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```
"InstanceFamilyConfig": {
"InstanceFamilyName": "Standard Network Optimized",
"InstanceFamily": "SN3ne"
},
"InstanceFamilyTypeConfig": {
"InstanceFamilyType": "S",
"InstanceFamilyTypeName": "Standard"
},
"InstanceType": "SN3ne.SMALL8",
"Vcpu": 1,
"Memory": 8,
"Frequency": "2.5 GHz",
"CpuModelName": "Intel Xeon Skylake 6133",
"ExtInfo": ""
}
],
"TotalCount": 17
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
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Command Line Interface

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6. Error Code

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The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
MissingParameter.MissingInstanceTypeConfigParameter	The model operation parameters are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeConfig

Last updated：2023-08-18 15:47:45

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to get the limits of data such as bandwidth and 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: DescribeConfig.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
NetworkStorageRange	NetworkStorageRange	Range of the network bandwidth disk size.
ImageWhiteSet	Array of String	Image OS allowlist. Note: this field may return null, indicating that no valid values can be obtained.

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InstanceNetworkLimitConfigs	Array of InstanceNetworkLimitConfig	Network quota information. Note: this field may return null, indicating that no valid values can be obtained.
ImageLimits	ImageLimitConfig	Image quota information. Note: this field may return null, indicating that no valid values can be obtained.
DefaultIPDirect	Boolean	Default IP direct access, used in scenarios with direct access parameters such as module creation and virtual machine purchase.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting basic configuration

This example shows you how to get the basic configuration.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeConfig
&<Common request parameters>
```

Output Example

```
{
"Response": {
"InstanceNetworkLimitConfigs": [
{
"CpuNum": 1,
"NetworkInterfaceLimit": 2,
"InnerIpPerNetworkInterface": 2,
"PublicIpPerInstance": 1
},
{
"CpuNum": 2,
"NetworkInterfaceLimit": 2,
"InnerIpPerNetworkInterface": 10,
"PublicIpPerInstance": 1
```

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```
},
{
"CpuNum": 4,
"NetworkInterfaceLimit": 3,
"InnerIpPerNetworkInterface": 10,
"PublicIpPerInstance": 3
},
{
"CpuNum": 8,
"NetworkInterfaceLimit": 4,
"InnerIpPerNetworkInterface": 10,
"PublicIpPerInstance": 3
},
{
"CpuNum": 16,
"NetworkInterfaceLimit": 6,
"InnerIpPerNetworkInterface": 10,
"PublicIpPerInstance": 4
},
{
"CpuNum": 24,
"NetworkInterfaceLimit": 6,
"InnerIpPerNetworkInterface": 10,
"PublicIpPerInstance": 4
},
{
"CpuNum": 32,
"NetworkInterfaceLimit": 8,
"InnerIpPerNetworkInterface": 20,
"PublicIpPerInstance": 4
},
{
"CpuNum": 48,
"NetworkInterfaceLimit": 8,
"InnerIpPerNetworkInterface": 20,
"PublicIpPerInstance": 4
},
{
"CpuNum": 64,
"NetworkInterfaceLimit": 8,
"InnerIpPerNetworkInterface": 20,
"PublicIpPerInstance": 4
},
{
"CpuNum": 96,
"NetworkInterfaceLimit": 8,
"InnerIpPerNetworkInterface": 20,
```


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```
"PublicIpPerInstance": 4
},
{
"CpuNum": 128,
"NetworkInterfaceLimit": 8,
"InnerIpPerNetworkInterface": 20,
"PublicIpPerInstance": 4
},
{
"CpuNum": 256,
"NetworkInterfaceLimit": 8,
"InnerIpPerNetworkInterface": 20,
"PublicIpPerInstance": 4
}
],
"DefaultIPDirect": true,
"NetworkStorageRange": {
"PerBandwidth": 1,
"MaxDataDiskSize": 1024,
"SuggestSystemDiskSize": 50,
"MinDataDiskSize": 50,
"MaxVcpuPerReq": 100,
"SuggestBandwidth": 25,
"MaxModuleNum": 1000,
"PerDataDisk": 10,
"MinSystemDiskSize": 0,
"SuggestDataDiskSize": 1024,
"MaxVcpu": 100,
"MinBandwidth": 25,
"MaxSystemDiskSize": 100,
"MinVcpu": 1,
"MaxBandwidth": 1000
},
"ImageLimits": {
"MaxImageSize": 0
},
"RequestId": "xx",
"ImageWhiteSet": [
"CentOS 6.2 64",
"CentOS 6.3 64",
"CentOS 6.8 64",
"CentOS 6.9 32",
"CentOS 6.9 64",
"CentOS 7.2 64",
"CentOS 7.3 64",
"CentOS 7.4 64",
"CentOS 7.5 64",
```


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```
"CentOS 7.6 64",
"Debian 7.4 64",
"Debian 8.2 32",
"Debian 8.2 64",
"Debian 9.0 64",
"Tencent Linux Release 1.2 (tkernel2)",
"Tencent Linux Release 2.2 (Final)",
"Tencent Linux release 2.4 (Final)",
"Ubuntu Server 14.04.1 LTS 32",
"Ubuntu Server 14.04.1 LTS 64",
"Ubuntu Server 16.04.1 LTS 32",
"Ubuntu Server 16.04.1 LTS 64",
"Ubuntu Server 18.04.1 LTS 64",
"Ubuntu 16.0 64",
"Windows Server 2012 R2",
"Windows Server 2012 Datacenter 64-bit English",
"Windows Server 2016 Datacenter 64-bit English",
"Windows Server 2016 Datacenter 64-bit Chinese",
"None 2.2 64",
"CentOS 8.0 64",
"CentOS 7.7 64",
"Windows Server 2019",
"Debian 10.2 64",
"Tencent tlinux release 2.2",
"Ubuntu Server 20.04",
"Tencent Linux release 2.6"
]
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
MissingParameter.MissingBaseConfigParameter	The request parameters required to get the basic configuration are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeBaseOverview

Last updated：2023-08-18 14:28:04

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to get the basic data displayed on the overview page.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBaseOverview.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
ModuleNum	Integer	Number of modules
NodeNum	Integer	Number of nodes

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VcpuNum	Integer	Number of CPU cores
MemoryNum	Integer	Memory size in GB
StorageNum	Integer	Disk size in GB
NetworkNum	Integer	Yesterday's network peak in Mbps
InstanceNum	Integer	Number of instances
RunningNum	Integer	Number of running instances
IsolationNum	Integer	Number of isolated instances
ExpiredNum	Integer	Number of expired instances
WillExpireNum	Integer	Number of instances about to expire
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Displaying basic statistics on overview page

This example shows you how to display the basic statistics on the overview page.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeBaseOverview
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "62914bef-f8fb-44a5-83a8-df8fe1324f3c",
"InstanceNum": 5,
"RunningNum": 4,
"IsolationNum": 0,
"ModuleNum": 12,
"NodeNum": 2,
"VcpuNum": 12,
"MemoryNum": 24,
"StorageNum": 250,
```

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```
"NetworkNum": 0,
"ExpiredNum": 0,
"WillExpireNum": 0
}
}
```

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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
MissingParameter.MissingOverViewParameter	The request parameters required to get the configuration of the overview page are incomplete.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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DescribeTaskStatus

Last updated：2023-08-18 14:28:03

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to get the status of an async task.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeTaskStatus.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
TaskSet.N	Yes	Array of TaskInput	Task description.

3. Output Parameters

Parameter Name	Type	Description

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TaskSet	Array of TaskOutput	Task description.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the status of image creation task

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeTaskStatus
&TaskSet.0.Operation=CreateImage
&TaskSet.0.TaskId=1528600
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "6660b3b4-c51f-11ea-a187-52540002f896",
"TaskSet": [
{
"TaskId": 1528600,
"Message": "Create image failed",
"Status": "FAILED",
"EndTime": "2020-07-13 00:37:51",
"AddTime": "2020-07-13 00:37:19",
"Operation": "CreateImage"
}
]
}
}
```

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 Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameterValue.TaskNotFound	The task was not found.

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DescribeMonthPeakNetwork

Last updated：2023-08-18 14:28:04

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to get the monthly peak and billable inbound/outbound bandwidth values of your node.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeMonthPeakNetwork.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
Month	Yes	String	Month (xxxx-xx), such as `2021-03`. Default value: the last month
Filters.N	No	Array of Filter	Filter

3. Output Parameters

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Parameter Name	Type	Description
MonthNetWorkData	Array of MonthNetwork	None Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the bandwidth information of specified month

This example shows you how to get the bandwidth information of the specified month.

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribeMonthPeakNetwork
&Month=2020-09
&Filters.0.Name=region
&Filters.0.Values.0=ap-zhengzhou-ecm
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "ee2849f2-facd-4f84-a0ab-bec49edda5fc",
"MonthNetWorkData": [
{
"ZoneInfo": {
"ZoneId": "490001",
"ZoneName": "Nanjing",
"Zone": "ap-nanjing-ecm-1"
},
"Month": "202001",
"BandwidthPkgId": "bwp-mm9aw7jq",
"Isp": "CMCC",
"TrafficMaxIn": 12.345,
"TrafficMaxOut": 12.345,
"FeeTraffic": 12.345,
"StartTime": "2021-03-01 00:00:00",
"EndTime": "2021-03-29 23:59:59",
"EffectiveDays": 2,
```

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```
"MonthDays": 30,
"EffectiveDaysRate": 12.34
}
]
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.InternalOperationFailure	Internal error.
InvalidParameter	The parameter is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidISPInNode	The ISP is invalid.

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InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.TooLong	The parameter value is too long.
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.
UnsupportedOperation	Unsupported operation.

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DescribePackingQuotaGroup

Last updated：2023-08-18 14:28:03

1. API Description

Domain name for API request: ecm.tencentcloudapi.com.

This API is used to get the packing quota of a model in a region (when a virtual model is used, a set of correlated packing quotas will 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: DescribePackingQuotaGroup.
Version	Yes	String	Common Params. The value used for this API: 2019-07-19.
Region	No	String	Common Params. This parameter is not required for this API.
Filters.N	No	Array of Filter	Filter. Zone: AZ; InstanceType: instance type; DataDiskSize: data disk size.

3. Output Parameters

Parameter Name	Type	Description

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PackingQuotaSet	Array of PackingQuotaGroup	Set of packing quotas.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the instance quota of edge server

Input Example

```
https://ecm.tencentcloudapi.com/?Action=DescribePackingQuotaGroup
&Filters.0.Name=Zone
&Filters.0.Values.0=ap-beijing-ecm-ct
&Filters.1.Name=InstanceType
&Filters.1.Values.0=SN3ne.2XLARGE16
&Filters.2.Name=DataDiskSize
&Filters.2.Values.0=100
&<Common request parameters>
```

Output Example

```
{
"Response": {
"PackingQuotaSet": [
{
"ZoneId": 10580001,
"Zone": "ap-beijing-ecm-cm3-1",
"ISPId": "CMCC",
"PackingQuotaInfos": [
{
"InstanceType": "S4.LARGE8",
"PackingQuota": 49
}
]
},
{
"ZoneId": 10650001,
"Zone": "ap-beijing-ecm-cu3-1",
"ISPId": "CUCC",
"PackingQuotaInfos": [
{
"InstanceType": "S4.LARGE8",
```

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```
"PackingQuota": 100
},
{
"InstanceType": "SN3ne.LARGE8",
"PackingQuota": 5
}
]
}
],
"RequestId": "f32d1e05-a8cb-4848-a16c-2d6b4ce47420"
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.DataOperationFailed	Data operation failed.

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FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.OperationNotAllow	The current operation is not allowed.
InvalidParameter	The parameter is incorrect.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameterValue	The parameter value is incorrect.
InvalidParameterValue.InvalidFilter	The filter is invalid.
MissingParameter	The parameter is missing.
UnsupportedOperation	Unsupported operation.

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Data Types

Last updated：2023-08-25 14:45:42

Address

EIP information

Used by actions: DescribeAddresses.

Name	Type	Description
AddressId	String	Unique EIP ID.
AddressName	String	EIP name.
AddressStatus	String	EIP status, including 'CREATING' (creating), 'BINDING' (binding), 'BIND' (bound), 'UNBINDING' (unbinding), 'UNBIND' (unbound), 'OFFLINING' (releasing), and 'BIND_ENI' (binding dangling ENI)
AddressIp	String	Public IP address
InstanceId	String	ID of the bound resource instance. Note: this field may return null, indicating that no valid values can be obtained.
CreatedTime	String	Creation time in ISO 8601 format (YYYY-MM-DDTHH:mm:ss.sssZ)
NetworkInterfaceId	String	ID of the bound ENI Note: this field may return null, indicating that no valid values can be obtained.
PrivateAddressIp	String	Private IP of the bound resource Note: this field may return null, indicating that no valid values can be obtained.
IsArrears	Boolean	Isolation status of the resource. true: isolated; false: not isolated.
IsBlocked	Boolean	Blockage status of the EIP resource. true: blocked; false: not blocked
IsEipDirectConnection	Boolean	Whether the EIP supports direct access mode. true: yes; false: no.
AddressType	String	Resource type of the EIP, including `CalcIP` (device IP), `WanIP` (general public IP), `EIP` (elastic IP), and `AnycastEip` (accelerated EIP).

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Name	Type	Description
CascadeRelease	Boolean	Whether the EIP is automatically released after being unbound. true: yes; false: no
InternetServiceProvider	String	ISP. CTCC: China Telecom; CUCC: China Unicom; CMCC: China Mobile Note: this field may return null, indicating that no valid values can be obtained.
Bandwidth	Integer	Bandwidth cap Note: this field may return null, indicating that no valid values can be obtained.
PayMode	String	Billing mode Note: this field may return null, indicating that no valid values can be obtained.

AddressInfo

IP address information structure.

Used by actions: DescribeInstances.

Name	Type	Description
PublicIPAddressInfo	PublicIPAddressInfo	Public IP information of the instance. Note: this field may return null, indicating that no valid values can be obtained.
PrivateIPAddressInfo	PrivateIPAddressInfo	Private IP information of the instance. Note: this field may return null, indicating that no valid values can be obtained.
PublicIPv6AddressInfo	PublicIPAddressInfo	Public IPv6 information of the instance. Note: this field may return null, indicating that no valid values can be obtained.

AddressTemplateSpecification

IP address template

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Used by actions: CreateSecurityGroupPolicies, DeleteSecurityGroupPolicies, DescribeSecurityGroupPolicies, ModifySecurityGroupPolicies, ReplaceSecurityGroupPolicy.

Name	Type	Required	Description
AddressId	String	Yes	IP address ID, such as `eipm-2uw6ujo6` .
AddressGroupId	String	Yes	IP address group ID, such as `eipmg-2uw6ujo6` .

Area

Region information

Used by actions: DescribeInstances, DescribeLoadBalancers, DescribeNode.

Name	Type	Description
AreaId	String	Region ID
AreaName	String	Region name

AssistantCidr

Secondary CIDR information of the VPC.

Used by actions: CreateVpc, DescribeVpcs.

Name	Type	Description
VpcId	String	VPC instance ID, such as `vpc-6v2ht8q5`
CidrBlock	String	Secondary CIDR, such as `172.16.0.0/16`
AssistantType	Integer	Secondary CIDR block type. 0: general secondary CIDR block; 1: container secondary CIDR block. Default value: 0.
SubnetSet	Array of Subnet	Subnets divided by the secondary CIDR block. Note: this field may return null, indicating that no valid values can be obtained. Note: this field may return null, indicating that no valid values can be obtained.

Backend

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CLB backend information

Used by actions: DescribeTargets.

Name	Type	Description
InstanceId	String	Unique real server ID Note: this field may return null, indicating that no valid values can be obtained.
Port	Integer	Listening port of the real server Note: this field may return null, indicating that no valid values can be obtained.
Weight	Integer	Forwarding weight of the real server. Value range: [0, 100]. Default value: 10. Note: this field may return null, indicating that no valid values can be obtained.
PrivateIpAddresses	Array of String	Private IP of the real server Note: this field may return null, indicating that no valid values can be obtained.
RegisteredTime	Timestamp	Real server binding time Note: this field may return null, indicating that no valid values can be obtained.
EniId	String	Unique ENI ID Note: this field may return null, indicating that no valid values can be obtained.
PublicIpAddresses	Array of String	Public IP of the real server Note: this field may return null, indicating that no valid values can be obtained.
InstanceName	String	Real server instance name Note: this field may return null, indicating that no valid values can be obtained.

BatchTarget

CLB batch targets

Used by actions: BatchDeregisterTargets, BatchRegisterTargets.

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Name	Type	Required	Description
ListenerId	String	No	Listener ID Note: this field may return null, indicating that no valid values can be obtained.
Port	Integer	No	Bound port Note: this field may return null, indicating that no valid values can be obtained.
InstanceId	String	No	CVM instance ID Note: this field may return null, indicating that no valid values can be obtained.
EniIp	String	No	ENI IP Note: this field may return null, indicating that no valid values can be obtained.
Weight	Integer	No	Weight of the CVM instance. Value range: [0, 100]. If it is not specified for binding the instance, 10 will be used by default. Note: this field may return null, indicating that no valid values can be obtained.

City

City information

Used by actions: DescribeInstances, DescribeLoadBalancers, DescribeNode.

Name	Type	Description
CityId	String	City ID
CityName	String	City name

Country

Country/Region information

Used by actions: DescribeInstances, DescribeLoadBalancers, DescribeNode.

Name	Type	Description

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Name	Type	Description
CountryId	String	Country/Region ID
CountryName	String	Country/Region name

DataDisk

Data disk information

Used by actions: CreateModule, DescribeModuleDetail, DescribePriceRunInstance, ModifyModuleConfig, RunInstances.

Name	Type	Required	Description
DiskSize	Integer	Yes	Data disk size in GB.
DiskType	String	No	Data disk type. Valid values: - LOCAL_BASIC: local disk - CLOUD_PREMIUM: Premium Cloud Storage Default value: LOCAL_BASIC.

DiskInfo

Disk information

Used by actions: DescribeInstances.

Name	Type	Description
DiskType	String	Disk type: LOCAL_BASIC.
DiskId	String	Disk ID
DiskSize	Integer	Disk size in GB

EipQuota

EIP quota information

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Used by actions: DescribeAddressQuota.

Name	Type	Description
QuotaId	String	Quota name. Valid values: TOTAL_EIP_QUOTA: quota of EIPs in the current region; DAILY_EIP_APPLY: today's number of applications in the current region; DAILY_PUBLIC_IP_ASSIGN: number of public IP reassignments in the current region.
QuotaCurrent	Integer	Current quantity
QuotaLimit	Integer	Quota

EnhancedService

Enhanced service

Used by actions: ResetInstances, RunInstances.

Name	Type	Required	Description
SecurityService	RunSecurityServiceEnabled	No	Whether to enable CWP.
MonitorService	RunMonitorServiceEnabled	No	Whether to enable CM.
EIPDirectService	RunEIPDirectServiceEnabled	No	Whether to enable IP direct access. If this parameter is not specified, IP direct access will be enabled by default for Linux images and is currently not supported for Windows images.

Filter

Key-Value pair filter for conditional filtering queries.

Used by actions: DescribeAddresses, DescribeCustomImageTask, DescribeHaVips, DescribeImage, DescribeInstances, DescribeLoadBalancers, DescribeModule, DescribeMonthPeakNetwork, DescribeNetworkInterfaces, DescribeNode, DescribePackingQuotaGroup, DescribePeakNetworkOverview, DescribeRouteTables, DescribeSecurityGroups, DescribeSnapshots, DescribeSubnets, DescribeVpcs.

Name	Type	Required	Description

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Name	Type	Required	Description
Values	Array of String	Yes	One or more filter values.
Name	String	Yes	Filter name.

HaVip

HAVIP object.

Used by actions: CreateHaVip, DescribeHaVips.

Name	Type	Description
HaVipId	String	Unique HAVIP ID.
HaVipName	String	HAVIP name.
Vip	String	Virtual IP address.
VpcId	String	VPC ID of the HAVIP.
SubnetId	String	Subnet ID of the HAVIP.
NetworkInterfaceId	String	ID of the ENI associated with the HAVIP.
InstanceId	String	ID of the bound instance.
AddressIp	String	Bound EIP.
State	String	Status: AVAILABLE: running. UNBIND: unbound.
CreatedTime	String	Creation time.
Business	String	ID of businesses that use HAVIP.

HealthCheck

CLB health check

Used by actions: CreateListener, DescribeListeners, ModifyListener.

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Name	Type	Required	Description
HealthSwitch	Integer	No	Whether to enable health check. Valid values: 1: enable; 0: disable Note: this field may return null, indicating that no valid values can be obtained.
TimeOut	Integer	No	Health check response timeout period in seconds. Value range: 2–60. Default value: 2. The value of this parameter should be smaller than the check interval. Note: this field may return null, indicating that no valid values can be obtained.
IntervalTime	Integer	No	Health check interval in seconds. Value range: 5–300. Default value: 5. Note: this field may return null, indicating that no valid values can be obtained.
HealthNum	Integer	No	Health threshold. Value range: 2–10. Default value: 3, indicating that if a forward is found healthy three consecutive times, it will be considered normal. Note: this field may return null, indicating that no valid values can be obtained.
UnHealthyNum	Integer	No	Unhealthy threshold. Value range: 2–10. Default value: 3, indicating that if a forward is found unhealthy three consecutive times, it will be considered exceptional. Note: this field may return null, indicating that no valid values can be obtained.
CheckPort	Integer	No	Health check port (a custom check parameter), which is the port of the real server by default. Unless you want to specify a port, we recommend you leave it empty. Note: this field may return null, indicating that no valid values can be obtained.
ContextType	String	No	Health check protocol (a custom check parameter), which is required if the value of `CheckType` is `CUSTOM`. This parameter represents the input format of the health check. Valid values: HEX, TEXT. If the value is `HEX`, the characters of `SendContext` and `RecvContext` can only be selected from `0123456789ABCDEF`, and the length must be an even number. Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Required	Description
SendContext	String	No	Health check protocol (a custom check parameter), which is required if the value of `CheckType` is `CUSTOM`. This parameter represents the content of the request sent by the health check. It can contain up to 500 visible ASCII characters. Note: this field may return null, indicating that no valid values can be obtained.
RecvContext	String	No	Health check protocol (a custom check parameter), which is required if the value of `CheckType` is `CUSTOM`. This parameter represents the result returned by the health check. It can contain up to 500 visible ASCII characters. Note: this field may return null, indicating that no valid values can be obtained.
CheckType	String	No	Health check protocol (a custom check parameter). Valid values: TCP, CUSTOM (applicable only to UDP listeners. If custom health check is used, this parameter will be required). Note: this field may return null, indicating that no valid values can be obtained.

ISP

ISP information

Used by actions: DescribeInstances, DescribeNode.

Name	Type	Description
ISPId	String	ISP ID
ISPName	String	ISP name

ISPCounter

ISP statistics

Used by actions: DescribeModuleDetail.

Name	Type	Description

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Name	Type	Description
ProviderName	String	ISP name
ProviderNodeNum	Integer	Number of nodes
ProvederInstanceNum	Integer	Number of instances
ZoneInstanceInfoSet	Array of ZoneInstanceInfo	Zone instance information structure array

Image

Image information

Used by actions: DescribeImage, DescribeInstances, DescribeModuleDetail, DescribeSnapshots.

Name	Type	Description
ImageId	String	Image ID
ImageName	String	Image name
ImageState	String	Image status
ImageType	String	Image type
ImageOsName	String	OS name
ImageDescription	String	Image description
ImageCreateTime	String	Image import time
Architecture	String	Number of bits of the OS
OsType	String	OS type
OsVersion	String	OS version
Platform	String	OS platform
ImageOwner	Integer	Image owner
ImageSize	Integer	Image size in GB
SrcImage	SrcImage	Image source information

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Name	Type	Description
ImageSource	String	Image source type
TaskId	String	ID of the task in intermediate or failed status
IsSupportCloudInit	Boolean	Whether cloud-init is supported

ImageLimitConfig

Image size configuration

Used by actions: DescribeConfig.

Name	Type	Description
MaxImageSize	Integer	Supported maximum image size in GB, including custom image size for import and central cloud image size.

ImageOsList

Supported OS type. Valid values: Windows, Linux.

Used by actions: DescribeImportImageOs.

Name	Type	Description
Windows	Array of String	Supported Windows OS Note: this field may return null, indicating that no valid values can be obtained.
Linux	Array of String	Supported Linux OS Note: this field may return null, indicating that no valid values can be obtained.

ImageTask

Image task

Used by actions: DescribeCustomImageTask.

Name	Type	Description

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Name	Type	Description
State	String	Image import status. Valid values: PENDING, PROCESSING, SUCCESS, FAILED
Message	String	Cause of import failure (FAILED) Note: this field may return null, indicating that no valid values can be obtained.
ImageName	String	Image name
CreateTime	String	Creation time

Instance

Instance information.

Used by actions: DescribeInstances.

Name	Type	Description
InstanceId	String	Instance ID.
InstanceName	String	Instance name, such as `ens-34241f3s` . Note: this field may return null, indicating that no valid values can be obtained.
InstanceState	String	Instance status. Valid values: PENDING: creating LAUNCH_FAILED: failed to create RUNNING: running STOPPED: shut down STARTING: starting STOPPING: shutting down REBOOTING: restarting SHUTDOWN: to be terminated TERMINATING: terminating.
Image	Image	Information of the image currently used by the instance. Note: this field may return null, indicating that no valid values can be obtained.
SimpleModule	SimpleModule	Basic information of the current module of the instance. Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
Position	Position	Location information of the instance. Note: this field may return null, indicating that no valid values can be obtained.
Internet	Internet	Network information of the instance. Note: this field may return null, indicating that no valid values can be obtained.
InstanceTypeConfig	InstanceTypeConfig	Configuration information of the instance. Note: this field may return null, indicating that no valid values can be obtained.
CreateTime	String	Instance creation time. Note: this field may return null, indicating that no valid values can be obtained.
TagSet	Array of Tag	Instance tag information. Note: this field may return null, indicating that no valid values can be obtained.
LatestOperation	String	Last operation on the instance. Note: this field may return null, indicating that no valid values can be obtained.
LatestOperationState	String	Result of the last operation on the instance. Note: this field may return null, indicating that no valid values can be obtained.
RestrictState	String	Instance business status. Valid values: NORMAL: normal EXPIRED: expired PROTECTIVELY_ISOLATED: isolated. Note: this field may return null, indicating that no valid values can be obtained.
SystemDiskSize	Integer	System disk size in GB. Note: this field may return null, indicating that no valid values can be obtained.
DataDiskSize	Integer	Data disk size in GB. Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
UUID	String	Instance UUID Note: this field may return null, indicating that no valid values can be obtained.
PayMode	Integer	Billing mode. 0: postpaid. 1: prepaid. Note: this field may return null, indicating that no valid values can be obtained.
ExpireTime	String	Expiration time in the format of `yyyy-mm-dd HH:mm:ss` . Note: this field may return null, indicating that no valid values can be obtained.
IsolatedTime	String	Isolation time in the format of `yyyy-mm-dd HH:mm:ss` . Note: this field may return null, indicating that no valid values can be obtained.
RenewFlag	Integer	Auto-Renewal flag. 0: no. 1: yes. Note: this field may return null, indicating that no valid values can be obtained.
ExpireState	String	Expiration status. NORMAL: normal. WILL_EXPIRE: about to expire. EXPIRED: expired. Note: this field may return null, indicating that no valid values can be obtained.
SystemDisk	DiskInfo	System disk information Note: this field may return null, indicating that no valid values can be obtained.
DataDisks	Array of DiskInfo	Data disk information Note: this field may return null, indicating that no valid values can be obtained.
NewFlag	Integer	New instance flag Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
SecurityGroupIds	Array of String	Security group of the instance, which can be obtained from the `sgId` field in the returned value of the `DescribeSecurityGroups` API. Note: this field may return null, indicating that no valid values can be obtained.
VirtualPrivateCloud	VirtualPrivateCloud	VPC attribute Note: this field may return null, indicating that no valid values can be obtained.
ISP	String	ISP field of the instance. Note: this field may return null, indicating that no valid values can be obtained.
PhysicalPosition	PhysicalPosition	Physical location information. Note that this field is currently a reserved field and null. Note: this field may return null, indicating that no valid values can be obtained.

InstanceFamilyConfig

Model family configuration

Used by actions: DescribeInstanceTypeConfig, DescribeInstances, DescribeModuleDetail.

Name	Type	Description
InstanceFamilyName	String	Model name
InstanceFamily	String	Model ID

InstanceFamilyTypeConfig

Instance family type configuration

Used by actions: DescribeInstanceTypeConfig, DescribeInstances, DescribeModuleDetail, DescribePeakBaseOverview.

Name	Type	Description

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Name	Type	Description
InstanceFamilyType	String	Instance model family type ID
InstanceFamilyTypeName	String	Instance model family type name

InstanceNetworkInfo

Instance ENI IP information array

Used by actions: DescribeInstances.

Name	Type	Description
AddressInfoSet	Array of AddressInfo	Private and public IP information of the instance. Note: this field may return null, indicating that no valid values can be obtained.
NetworkInterfaceId	String	ENI ID.
NetworkInterfaceName	String	ENI name. Note: this field may return null, indicating that no valid values can be obtained.
Primary	Boolean	Primary ENI attribute. Valid values: true: primary ENI; false: secondary ENI.

InstanceNetworkLimitConfig

Network resource limit of the instance

Used by actions: DescribeConfig.

Name	Type	Description
CpuNum	Integer	Number of CPU cores
NetworkInterfaceLimit	Integer	ENI quantity limit
InnerIpPerNetworkInterface	Integer	Private IP quantity limit per ENI
PublicIpPerInstance	Integer	Public IP limit per instance

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InstanceOperator

Executable operations for the instance

Used by actions: DescribeInstancesDeniedActions.

Name	Type	Description
InstanceId	String	Instance ID
DeniedActions	Array of OperatorAction	Prohibited operations for the instance Note: this field may return null, indicating that no valid values can be obtained.

InstancePricesPartDetail

Instance price information

Used by actions: DescribePriceRunInstance.

Name	Type	Required	Description
CpuPrice	PriceDetail	Yes	CPU price information
MemPrice	PriceDetail	Yes	Memory price information
DisksPrice	PriceDetail	Yes	Disk price information

InstanceStatistic

Instance statistics

Used by actions: DescribeSecurityGroupAssociationStatistics.

Name	Type	Description
InstanceType	String	Instance type
InstanceCount	Integer	Number of instances

InstanceTypeConfig

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Model configuration

Used by actions: DescribeInstanceTypeConfig, DescribeInstances, DescribeModuleDetail.

Name	Type	Description
InstanceFamilyConfig	InstanceFamilyConfig	Model family configuration information
InstanceType	String	Model
Vcpu	Integer	Number of CPU cores
Memory	Integer	Memory size
Frequency	String	Clock rate
CpuModelName	String	CPU model
InstanceFamilyTypeConfig	InstanceFamilyTypeConfig	Instance family type configuration information
ExtInfo	String	Extra model information, which is a JSON string in the format of `{"dataDiskSize":3200,"systemDiskSize" "systemDiskSizeShow":"default system di size:60 GB","dataDiskSizeShow":"local I SSD: 3200 GB"}` . It indicates a special model if it exists Note: this field may return null, indicating that no valid values can be obtained.
Vgpu	Float	Number of GPU cards Note: this field may return null, indicating that no valid values can be obtained.
GpuModelName	String	GPU model Note: this field may return null, indicating that no valid values can be obtained.

InstancesPrice

Instance price information

Used by actions: DescribePriceRunInstance.

Name	Type	Required	Description

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Name	Type	Required	Description
InstancePricesPartDetail	InstancePricesPartDetail	Yes	Instance price details
Discount	Integer	Yes	Discount on the total instance price
DiscountPrice	Integer	Yes	Discounted price
OriginalPrice	Integer	Yes	Original cost

Internet

Network information of the instance.

Used by actions: DescribeInstances.

Name	Type	Description
PrivateIPAddressSet	Array of PrivateIPAddressInfo	Private network information list of the instance, with the primary ENI followed by secondary ENIs in the order of binding. Note: this field may return null, indicating that no valid values can be obtained.
PublicIPAddressSet	Array of PublicIPAddressInfo	Public network information list of the instance, with the primary ENI followed by secondary ENIs in the order of binding. Note: this field may return null, indicating that no valid values can be obtained.
InstanceNetworkInfoSet	Array of InstanceNetworkInfo	Network information of the instance. Note: this field may return null, indicating that no valid values can be obtained.

Ipv6Address

IPv6 address information.

Used by actions: AssignIpv6Addresses, CreateNetworkInterface, DescribeNetworkInterfaces, ModifyIpv6AddressesAttribute, ReleaseIpv6Addresses.

Name	Type	Required	Description

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Name	Type	Required	Description
Address	String	Yes	IPv6 address, such as `3402:4e00:20:100:0:8cd9:2a67:71f3`
Primary	Boolean	No	Whether it is the primary IP.
AddressId	String	No	EIP instance ID, such as `eip-hxlqja90` .
Description	String	No	Description.
IsWanIpBlocked	Boolean	No	Whether the public IP is blocked.
State	String	No	IPv6 address status: PENDING: generating MIGRATING: migrating DELETING: deleting AVAILABLE: available

KeyPair

Key pair information

Used by actions: CreateKeyPair.

Name	Type	Description
KeyId	String	Key pair ID, which is the unique identifier of a key pair. Note: this field may return null, indicating that no valid values can be obtained.
KeyName	String	Key pair name. Note: this field may return null, indicating that no valid values can be obtained.
ProjectId	Integer	Project ID of the key pair. Note: this field may return null, indicating that no valid values can be obtained.
Description	String	Key pair description. Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
PublicKey	String	Public key (in plain text) of key pair. Note: this field may return null, indicating that no valid values can be obtained.
PrivateKey	String	Private key (in plaintext) of a key pair. Tencent Cloud do not store private keys. Therefore, keep them secure. Note: this field may return null, indicating that no valid values can be obtained.
AssociatedInstanceIds	Array of String	List of IDs of the instances associated with the key. 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.

Listener

CLB listener

Used by actions: DescribeListeners.

Name	Type	Description
ListenerId	String	CLB listener ID Note: this field may return null, indicating that no valid values can be obtained.
Protocol	String	Listener protocol Note: this field may return null, indicating that no valid values can be obtained.
Port	Integer	Listener port. Note: this field may return null, indicating that no valid values can be obtained.
HealthCheck	HealthCheck	Health check information of the listener Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
Scheduler	String	Request scheduling method Note: this field may return null, indicating that no valid values can be obtained.
SessionExpireTime	Integer	Session persistence time Note: this field may return null, indicating that no valid values can be obtained.
ListenerName	String	Listener name Note: this field may return null, indicating that no valid values can be obtained.
CreateTime	String	Listener creation time Note: this field may return null, indicating that no valid values can be obtained.
SessionType	String	Session type of the listener Note: this field may return null, indicating that no valid values can be obtained.
EndPort	Integer	End port of the port range Note: this field may return null, indicating that no valid values can be obtained.

ListenerBackend

Listener backend

Used by actions: DescribeTargets.

Name	Type	Description
ListenerId	String	Listener ID Note: this field may return null, indicating that no valid values can be obtained.
Protocol	String	Listener protocol Note: this field may return null, indicating that no valid values can be obtained.
Port	Integer	Listener port Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
Targets	Array of Backend	List of real servers bound to the CLB instance Note: this field may return null, indicating that no valid values can be obtained.

ListenerHealth

Listener health status

Used by actions: DescribeTargetHealth.

Name	Type	Description
ListenerId	String	Listener ID Note: this field may return null, indicating that no valid values can be obtained.
ListenerName	String	Listener name Note: this field may return null, indicating that no valid values can be obtained.
Protocol	String	Listener protocol Note: this field may return null, indicating that no valid values can be obtained.
Port	Integer	Listener port Note: this field may return null, indicating that no valid values can be obtained.
Rules	Array of RuleHealth	List of forwarding rules of the listener Note: this field may return null, indicating that no valid values can be obtained.

LoadBalancer

CLB instance information

Used by actions: DescribeLoadBalancers.

Name	Type	Description

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Name	Type	Description
Region	String	Region. Note: this field may return null, indicating that no valid values can be obtained.
Position	Position	Location information. Note: this field may return null, indicating that no valid values can be obtained.
LoadBalancerId	String	CLB instance ID. Note: this field may return null, indicating that no valid values can be obtained.
LoadBalancerName	String	CLB instance name. Note: this field may return null, indicating that no valid values can be obtained.
LoadBalancerType	String	Network type of the CLB instance. Valid values: OPEN: public network Note: this field may return null, indicating that no valid values can be obtained.
LoadBalancerVips	Array of String	List of VIPs of the CLB instance. Note: this field may return null, indicating that no valid values can be obtained.
Status	Integer	CLB instance status. Valid values: 0: creating; 1: running. Note: this field may return null, indicating that no valid values can be obtained.
CreateTime	Timestamp	CLB instance creation time. Note: this field may return null, indicating that no valid values can be obtained.
StatusTime	Timestamp	Last status change time of the CLB instance. Note: this field may return null, indicating that no valid values can be obtained.
VpcId	String	VPC ID. Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
Tags	Array of TagInfo	CLB instance tag information. Note: this field may return null, indicating that no valid values can be obtained.
VipIsp	String	ISP of the CLB IP address. Note: this field may return null, indicating that no valid values can be obtained.
NetworkAttributes	LoadBalancerInternetAccessible	Network attribute of the CLB instance. Note: this field may return null, indicating that no valid values can be obtained.
SecureGroups	Array of String	Security group. Note: this field may return null, indicating that no valid values can be obtained.
LoadBalancerPassToTarget	Boolean	Whether the real server opens the traffic from ELB to the internet. Note: this field may return null, indicating that no valid values can be obtained.
AddressIPv6	String	IPv6 address of a CLB instance Note: This field may return `null`, indicating that no valid values can be obtained.

LoadBalancerHealth

CLB health status

Used by actions: DescribeTargetHealth.

Name	Type	Description
LoadBalancerId	String	CLB instance ID Note: this field may return null, indicating that no valid values can be obtained.
LoadBalancerName	String	CLB instance name Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
Listeners	Array of ListenerHealth	List of listeners Note: this field may return null, indicating that no valid values can be obtained.

LoadBalancerInternetAccessible

CLB information such as bandwidth limit.

Used by actions: CreateLoadBalancer, DescribeLoadBalancers, ModifyLoadBalancerAttributes.

Name	Type	Required	Description
InternetMaxBandwidthOut	Integer	No	Maximum outbound bandwidth in Mbps. Default value: 10.

Module

Module information

Used by actions: DescribeModule, DescribeModuleDetail.

Name	Type	Description
ModuleId	String	Module ID.
ModuleName	String	Module name.
ModuleState	String	Module status. Valid values: NORMAL: normal. DELETING: deleting DELETEFAILED: failed to delete.
DefaultSystemDiskSize	Integer	Default system disk size.
DefaultDataDiskSize	Integer	Default data disk size.
InstanceTypeConfig	InstanceTypeConfig	Default model.
DefaultImage	Image	Default image.
CreateTime	String	Creation time.

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Name	Type	Description
DefaultBandwidth	Integer	Default outbound bandwidth.
TagSet	Array of Tag	Tag set. Note: this field may return null, indicating that no valid values can be obtained.
CloseIpDirect	Integer	Whether to disable IP direct access.
SecurityGroupIds	Array of String	List of default security group IDs.
DefaultBandwidthIn	Integer	Default inbound bandwidth.
UserData	String	Custom script data
SystemDisk	SystemDisk	System disk information.
DataDisks	Array of DataDisk	Data disk information.

ModuleCounter

Node statistics

Used by actions: DescribeModuleDetail.

Name	Type	Description
ISPCounterSet	Array of ISPCounter	ISP statistics list
ProvinceNum	Integer	Number of provinces/states
CityNum	Integer	Number of cities
NodeNum	Integer	Number of nodes
InstanceNum	Integer	Number of instances

ModuleItem

Item information of the module list

Used by actions: DescribeModule.

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Name	Type	Description
NodeInstanceNum	NodeInstanceNum	Instance statistics of the node
Module	Module	Module information

MonthNetwork

Bandwidth information of the corresponding month

Used by actions: DescribeMonthPeakNetwork.

Name	Type	Description
ZoneInfo	ZoneInfo	Zone information of the node
Month	String	Bandwidth month, such as `202103`
BandwidthPkgId	String	Bandwidth package ID format, such as `bwp-xxxxxxxx`
Isp	String	ISP abbreviation. Valid values: CUCC, CTCC, CMCC
TrafficMaxIn	Float	Inbound bandwidth package peak. Value range: 0.0–xxx.xxx
TrafficMaxOut	Float	Outbound bandwidth package peak. Value range: 0.0–xxx.xxx
FeeTraffic	Float	Billable bandwidth. Value range: 0.0–xxx.xxx
StartTime	String	Start time of the monthly billable bandwidth in the format of `yyyy-mm-dd HH:mm:ss`
EndTime	String	End time of the monthly billable bandwidth in the format of `yyyy-mm-dd HH:mm:ss`
EffectiveDays	Integer	Number of actual valid days for the monthly billable bandwidth, which must be an integer greater than or equal to 0
MonthDays	Integer	Actual number of days in the specified month, such as 30
EffectiveDaysRate	Float	Proportion of the number of valid days, accurate to four decimal places, such as `0.2134`
BandwidthPkgType	String	Billable bandwidth package type. Valid values: Address, LoadBalance, AddressIpv6

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NetworkInterface

ENI

Used by actions: CreateNetworkInterface, DescribeNetworkInterfaces.

Name	Type	Description
NetworkInterfaceId	String	ENI instance ID, such as `eni-f1xjkw1b` .
NetworkInterfaceName	String	ENI name.
NetworkInterfaceDescription	String	ENI description.
SubnetId	String	Subnet instance ID.
VpcId	String	VPC instance ID.
GroupSet	Array of String	Bound security groups. Note: this field may return null, indicating that no valid values can be obtained.
Primary	Boolean	Whether it is the primary ENI.
MacAddress	String	MAC address.
State	String	ENI status: PENDING: creating AVAILABLE: available ATTACHING: binding DETACHING: unbinding DELETING: deleting
PrivateIpAddressSet	Array of PrivateIpAddressSpecification	Private IP information. Note: this field may return null, indicating that no valid values can be obtained.
Attachment	NetworkInterfaceAttachment	Bound CVM object. Note: this field may return null, indicating that no valid values can be obtained. Note: this field may return null, indicating that no valid values can be obtained.
Zone	String	AZ.
CreatedTime	String	Creation time.

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Name	Type	Description
Ipv6AddressSet	Array of Ipv6Address	List of IPv6 addresses. Note: this field may return null, indicating that no valid values can be obtained.
TagSet	Array of Tag	Tag key-value pairs. Note: this field may return null, indicating that no valid values can be obtained.
EniType	Integer	ENI type. Valid values: 0: ENI; 1: EVM ENI.
EcmRegion	String	ECM region (EcmRegion)
Business	String	Type of the resource bound with an ENI. Valid values: `cvm` and `eks`. Note: This field may return `null`, indicating that no valid values can be obtained.

NetworkInterfaceAttachment

Binding relationship of the ENI

Used by actions: CreateNetworkInterface, DescribeNetworkInterfaces.

Name	Type	Description
InstanceId	String	CVM instance ID.
DeviceIndex	Integer	Serial number of the ENI in the CVM instance.
InstanceAccountId	String	Account information of the CVM instance owner.
AttachTime	String	Binding time.

NetworkStorageRange

Upper and lower limits of the disk

Used by actions: DescribeConfig.

Name	Type	Description

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Name	Type	Description
MaxBandwidth	Integer	Network bandwidth cap
MaxSystemDiskSize	Integer	Upper limit of the data disk size
MinBandwidth	Integer	Lower limit of the network bandwidth
MinSystemDiskSize	Integer	Lower limit of the data disk size
MaxDataDiskSize	Integer	Maximum data disk size
MinDataDiskSize	Integer	Minimum data disk size
SuggestBandwidth	Integer	Suggested bandwidth
SuggestDataDiskSize	Integer	Suggested disk size
SuggestSystemDiskSize	Integer	Suggested system disk size
MaxVcpu	Integer	Peak number of CPU cores
MinVcpu	Integer	Minimum number of CPU cores
MaxVcpuPerReq	Integer	Maximum number of CPU cores per request
PerBandwidth	Integer	Bandwidth increment
PerDataDisk	Integer	Data disk increment
MaxModuleNum	Integer	Total number of modules

Node

Node information

Used by actions: DescribeNode.

Name	Type	Description
ZoneInfo	ZoneInfo	Zone information.
Country	Country	Country/Region information.
Area	Area	Region information.

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Name	Type	Description
Province	Province	Province/State information.
City	City	City information.
RegionInfo	RegionInfo	Region information.
ISPSet	Array of ISP	List of ISPs.
ISPNum	Integer	Number of ISPs.

NodeInstanceNum

Instance number of the node

Used by actions: DescribeModule.

Name	Type	Description
NodeNum	Integer	Number of nodes
InstanceNum	Integer	Number of instances

OperatorAction

Operation (action)

Used by actions: DescribeInstancesDeniedActions.

Name	Type	Description
Action	String	Executable operation
Code	String	Code Note: this field may return null, indicating that no valid values can be obtained.
Message	String	Specific information Note: this field may return null, indicating that no valid values can be obtained.

OsVersion

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Supported OS types.

Used by actions: DescribeImportImageOs.

Name	Type	Description
OsName	String	OS type
OsVersions	Array of String	Supported OS versions Note: this field may return null, indicating that no valid values can be obtained.
Architecture	Array of String	Supported OS architecture Note: this field may return null, indicating that no valid values can be obtained.

PackingQuotaGroup

A set of correlated packing quotas sorted by instance type priority

Used by actions: DescribePackingQuotaGroup.

Name	Type	Description
Zone	String	AZ
ZoneId	Integer	AZ ID
ISPId	String	ISP id
PackingQuotaInfos	Array of PackingQuotaInfo	A set of correlated packing quotas

PackingQuotaInfo

The information of a set of correlated packing quotas

Used by actions: DescribePackingQuotaGroup.

Name	Type	Description
InstanceType	String	Instance type
PackingQuota	Integer	Packing quota

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PeakBase

Peak information

Used by actions: DescribePeakBaseOverview.

Name	Type	Description
PeakCpuNum	Integer	Peak CPU
PeakMemoryNum	Integer	Peak memory
PeakStorageNum	Integer	Peak disk
RecordTime	String	Recording time

PeakFamilyInfo

PeakFamilyInfo: peak information of data such as CPU by model type

Used by actions: DescribePeakBaseOverview.

Name	Type	Description
InstanceFamily	InstanceFamilyTypeConfig	Model type information.
PeakBaseSet	Array of PeakBase	Peak information of basic data.

PeakNetwork

Peak network data

Used by actions: DescribePeakNetworkOverview.

Name	Type	Description
RecordTime	String	Recording time.
PeakInNetwork	String	Inbound bandwidth data.
PeakOutNetwork	String	Outbound bandwidth data.
ChargeNetwork	String	Billable bandwidth in bps

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PeakNetworkRegionInfo

Peak network information by region

Used by actions: DescribePeakNetworkOverview.

Name	Type	Description
Region	String	Region information
PeakNetworkSet	Array of PeakNetwork	Peak network set Note: this field may return null, indicating that no valid values can be obtained.

PhysicalPosition

Physical location information

Used by actions: DescribeInstances.

Name	Type	Description
PosId	String	Rack unit Note: this field may return null, indicating that no valid values can be obtained.
RackId	String	Rack Note: this field may return null, indicating that no valid values can be obtained.
SwitchId	String	Switch Note: this field may return null, indicating that no valid values can be obtained.

Placement

Abstract location of the instance, including its AZ, project, and dedicated cluster ID and name.

Used by actions: DescribeSnapshots.

Name	Type	Required	Description
Zone	String	Yes	AZ ID of the cloud disk, which can be obtained from the `Zone` field in the returned value of the DescribeZones API.

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Name	Type	Required	Description
CageId	String	No	Cage ID. When it is used as an input parameter, it indicates to manipulate the resources in the cage with the specified `CageId` and can be left empty. When it is used as an output parameter, it represents the cage ID of the resource and can be left empty. Note: this field may return null, indicating that no valid values can be obtained.
ProjectId	Integer	No	Project ID of the instance, which can be obtained from the `projectId` field in the returned value of the DescribeProject API. If this parameter is not specified, the default project ID will be used.
CdcName	String	No	Name of the dedicated cluster. When it is used as an input parameter, it is ignored. When it is used as an output parameter, it represents the name of the dedicated cluster to which the cloud disk belongs, and it can be left empty. Note: this field may return null, indicating that no valid values can be obtained.
CdcId	String	No	Dedicated cluster ID of the instance. When it is used as an input parameter, it indicates to manipulate the resources in the dedicated cluster with the specified `CdcId` and can be left empty. When it is used as an output parameter, it represents the dedicated cluster ID of the resource and can be left empty. Note: this field may return null, indicating that no valid values can be obtained.

Position

Location information of the instance.

Used by actions: DescribeInstances, DescribeLoadBalancers.

Name	Type	Description
ZoneInfo	ZoneInfo	Zone information of the instance.
Country	Country	Country/Region information of the instance.
Area	Area	Area information of the instance.
Province	Province	Province/State information of the instance.

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Name	Type	Description
City	City	City information of the instance.
RegionInfo	RegionInfo	Region information of the instance.

PriceDetail

Prices of CPU, memory, and other resources

Used by actions: DescribePriceRunInstance.

Name	Type	Required	Description
Discount	Integer	Yes	Discount, such as `20` , which represents 80% off
DiscountPrice	Integer	Yes	Discounted price in cents
OriginalPrice	Integer	Yes	Original price in cents

PrivateIPAddressInfo

Private IP information of the instance.

Used by actions: DescribeInstances.

Name	Type	Description
PrivateIPAddress	String	Private IP of the instance. Note: this field may return null, indicating that no valid values can be obtained.

PrivateIpAddressSpecification

Private IP information

Used by actions: AssignPrivateIpAddresses, CreateNetworkInterface, DescribeNetworkInterfaces, ModifyPrivateIpAddressesAttribute, RemovePrivateIpAddresses.

Name	Type	Required	Description
PrivateIpAddress	String	Yes	Private IP address.

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Name	Type	Required	Description
Primary	Boolean	No	Whether it is the primary IP. Note: this field may return null, indicating that no valid values can be obtained.
PublicIpAddress	String	No	Public IP address.
AddressId	String	No	EIP instance ID, such as `eip-11112222` .
Description	String	No	Private IP description.
IsWanIpBlocked	Boolean	No	Whether the public IP is blocked. Note: this field may return null, indicating that no valid values can be obtained.
State	String	No	IP status: PENDING: generating MIGRATING: migrating DELETING: deleting AVAILABLE: available

Province

Province/State information

Used by actions: DescribeInstances, DescribeLoadBalancers, DescribeNode.

Name	Type	Description
ProvinceId	String	Province/State ID
ProvinceName	String	Province/State name

PublicIPAddressInfo

Public IP information of the instance.

Used by actions: DescribeInstances.

Name	Type	Description
ChargeMode	String	Billing mode.

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Name	Type	Description
PublicIPAddress	String	Public IP of the instance.
ISP	ISP	Public IP ISP of the instance.
MaxBandwidthOut	Integer	Outbound bandwidth cap of the instance in Mbps.
MaxBandwidthIn	Integer	Inbound bandwidth cap of the instance in Mbps.

RegionInfo

Region and region name (RegionName)

Used by actions: DescribeInstances, DescribeLoadBalancers, DescribeNode.

Name	Type	Description
Region	String	Region
RegionName	String	Region name
RegionId	Integer	RegionID

Route

Routing policy

Used by actions: CreateRouteTable, CreateRoutes, DeleteRoutes, DescribeRouteConflicts, DescribeRouteTables, ReplaceRoutes, ResetRoutes.

Name	Type	Required	Description
DestinationCidrBlock	String	No	Destination IPv4 IP range
GatewayType	String	No	Next hop type NORMAL_CVM: general CVM;

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Name	Type	Required	Description
GatewayId	String	No	Next hop address You simply need to specify the gateway ID of a different next hop type, and the system will automatically match the next hop address When `GatewayType` is `EIP` , the value of `GatewayId` will be fixed at `0`
RouteItemId	String	No	Unique routing policy ID
RouteDescription	String	No	Routing policy description
Enabled	Boolean	No	Whether to enable
RouteType	String	No	Route type. Valid values: USER: user route; NETD: network probe route, which will be delivered by the system by default when you create a network probe instance and cannot be edited or deleted; CCN: CCN route, which will be delivered by the system by default and cannot be edited or deleted. You can only add and manipulate routes of `USER` type.
RouteId	Integer	No	Routing policy ID. The IPv4 routing policy will have a meaningful value, while the IPv6 routing policy is always 0. We recommend you use the unique ID `RouteItemId` for the routing policy

RouteConflict

Route conflict object

Used by actions: DescribeRouteConflicts.

Name	Type	Description
RouteTableId	String	Route table instance ID
DestinationCidrBlock	String	The conflicting destination ports to be checked
ConflictSet	Array of Route	List of conflicting routing policies Note: this field may return null, indicating that no valid values can be obtained.

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RouteTable

Route table

Used by actions: CreateRouteTable, CreateRoutes, DescribeRouteTables.

Name	Type	Required	Description
VpcId	String	No	VPC instance ID
RouteTableId	String	No	Route table instance ID
RouteTableName	String	No	Route table name
AssociationSet	Array of RouteTableAssociation	No	Association relationships of the route table Note: this field may return null, indicating that no valid values can be obtained.
RouteSet	Array of Route	No	IPv4 routing policy set Note: this field may return null, indicating that no valid values can be obtained.
Main	Boolean	No	Whether it is the default route table
CreatedTime	String	No	Creation time

RouteTableAssociation

Association relationships of the route table

Used by actions: CreateRouteTable, CreateRoutes, DescribeRouteTables.

Name	Type	Required	Description
SubnetId	String	No	Subnet instance ID
RouteTableId	String	No	Route table instance ID

RuleHealth

List of forwarding rules and health status

Used by actions: DescribeTargetHealth.

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Name	Type	Description
Targets	Array of TargetHealth	Health check status of the real server bound to the rule Note: this field may return null, indicating that no valid values can be obtained.

RunEIPDirectServiceEnabled

IP direct access information

Used by actions: ResetInstances, RunInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable IP direct access. Valid values: TRUE: yes FALSE: no Default value: TRUE. Currently, Windows images do not support IP direct access.

RunMonitorServiceEnabled

CM

Used by actions: ResetInstances, RunInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable.

RunSecurityServiceEnabled

CWP;

Used by actions: ResetInstances, RunInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable.

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Name	Type	Required	Description
Version	Integer	No	CWP edition. Valid values: 0: Basic Edition; 1: Pro Edition. Currently, only Basic Edition is supported

SecurityGroup

Security group object

Used by actions: CreateSecurityGroup, DescribeSecurityGroups.

Name	Type	Required	Description
SecurityGroupId	String	Yes	Security group instance ID, such as `esg-ohuuioma` .
SecurityGroupName	String	Yes	Security group name, which can be customized with up to 60 characters.
SecurityGroupDesc	String	Yes	Security group remarks, which can contain up to 100 characters.
IsDefault	Boolean	No	Whether it is the default security group (which cannot be deleted).
CreatedTime	String	No	Security group creation time.
TagSet	Array of Tag	No	Tag key-value pairs.

SecurityGroupAssociationStatistics

Statistics on the resources associated with the security group

Used by actions: DescribeSecurityGroupAssociationStatistics.

Name	Type	Description
SecurityGroupId	String	Security group instance ID.
ECM	Integer	Number of ECM instances.
Module	Integer	Number of ECM modules.

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Name	Type	Description
ENI	Integer	Number of ENI instances.
SG	Integer	Number of times the security group is referenced by other security groups.
CLB	Integer	Number of CLB instances.
InstanceStatistics	Array of InstanceStatistic	Binding statistics of all instances.
TotalCount	Integer	Total number of all resources (excluding resources referenced by security groups).

SecurityGroupLimitSet

Security group quota limit

Used by actions: DescribeSecurityGroupLimits.

Name	Type	Description
SecurityGroupLimit	Integer	Total number of security groups that can be created
SecurityGroupPolicyLimit	Integer	Maximum number of rules under the security group
ReferedSecurityGroupLimit	Integer	Number of nested security group rules under the security group
SecurityGroupInstanceLimit	Integer	Number of instances associated with the security group
InstanceSecurityGroupLimit	Integer	Number of security groups associated with the instance
SecurityGroupModuleLimit	Integer	Number of modules associated with the security group
ModuleSecurityGroupLimit	Integer	Number of security groups associated with the module

SecurityGroupPolicy

Security group policy object

Used by actions: CreateSecurityGroupPolicies, DeleteSecurityGroupPolicies, DescribeSecurityGroupPolicies, ModifySecurityGroupPolicies, ReplaceSecurityGroupPolicy.

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Name	Type	Required	Description
PolicyIndex	Integer	No	Security group policy index number
Protocol	String	No	Protocol. Valid values: TCP, UDP, ICMP.
Port	String	No	Port. Valid values: all, discrete port, range.
ServiceTemplate	ServiceTemplateSpecification	No	Protocol port ID or protocol port group ID. `ServiceTemplate` and `Protocol+Port` are mutually exclusive.
CidrBlock	String	No	IP range or IP address (mutually exclusive).
SecurityGroupId	String	No	Security group instance ID, such as `esg-ohuuioma` .
AddressTemplate	AddressTemplateSpecification	No	IP address ID or IP address group ID.
Action	String	No	`ACCEPT` or `DROP` .
PolicyDescription	String	No	Security group policy description.
ModifyTime	String	No	Modification time, such as `2020-07-22 19:27:23` Note: this field may return null, indicating that no valid values can be obtained.
Ipv6CidrBlock	String	No	IP range or IPv6 address (mutually exclusive). Note: this field may return null, indicating that no valid values can be obtained.

SecurityGroupPolicySet

Security group policy set

Used by actions: CreateSecurityGroupPolicies, DeleteSecurityGroupPolicies, DescribeSecurityGroupPolicies, ModifySecurityGroupPolicies, ReplaceSecurityGroupPolicy.

Name	Type	Required	Description

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Name	Type	Required	Description
Version	String	No	The version number of the security group policy, which will automatically increase by one each time you update the security group policy, so as to prevent expiration of the updated routing policies. If it is left empty, any conflicts will be ignored.
Egress	Array of SecurityGroupPolicy	No	Outbound rule. You must select either an outbound rule or inbound rule.
Ingress	Array of SecurityGroupPolicy	No	Inbound rule. You must select either outbound rule or inbound rule.

ServiceTemplateSpecification

Protocol port template

Used by actions: CreateSecurityGroupPolicies, DeleteSecurityGroupPolicies, DescribeSecurityGroupPolicies, ModifySecurityGroupPolicies, ReplaceSecurityGroupPolicy.

Name	Type	Required	Description
ServiceId	String	Yes	Protocol port ID, such as `eppm-f5n1f8da` .
ServiceGroupId	String	Yes	Protocol port group ID, such as `eppmg-f5n1f8da` .

SimpleModule

Basic information of the module

Used by actions: DescribeInstances.

Name	Type	Description
ModuleId	String	Module ID
ModuleName	String	Module name

Snapshot

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Snapshot details

Used by actions: DescribeSnapshots.

Name	Type	Description
Placement	Placement	Snapshot location.
CopyFromRemote	Boolean	Whether the snapshot is replicated across regions. Valid values: • true: yes; • false: no.
IsPermanent	Boolean	Whether the snapshot is a permanent snapshot. Valid values: • true: yes • false: no.
SnapshotName	String	Snapshot name, i.e., the user-defined snapshot alias. You can call ModifySnapshotAttribute to modify this field.
Percent	Integer	Snapshot creation progress in percentage. This field will always be `100` once the snapshot is created successfully.
Images	Array of Image	List of images associated with the snapshot.
ShareReference	Integer	Number of snapshots currently shared.
SnapshotType	String	Snapshot type. Valid values: PRIVATE_SNAPSHOT, SHARED_SNAPSHOT
DiskSize	Integer	Size in GB of the cloud disk for which the snapshot is created.
DiskId	String	ID of the cloud disk for which the snapshot is created.
CopyingToRegions	Array of String	Destination region to which the snapshot is being replicated. Default value: [].
SnapshotId	String	Snapshot ID.
DiskUsage	String	Type of the cloud disk for which the snapshot is created. Valid values: • SYSTEM_DISK: system disk • DATA_DISK: data disk.
Encrypt	Boolean	Whether the snapshot is created from an encrypted disk. Valid values: • true: yes • false: no.
CreateTime	Timestamp	Snapshot creation time.

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Name	Type	Description
ImageCount	Integer	Number of images associated with the snapshot.
SnapshotState	String	Snapshot status. Valid values: • NORMAL: normal • CREATING: creating • ROLLBACKING: rolling back • COPYING_FROM_REMOTE: cross-region replicating • CHECKING_COPIED: verifying the cross-region replicated data • TORECYCLE: to be repossessed.
DeadlineTime	String	Snapshot expiration time.
TimeStartShare	String	Time when snapshot sharing starts. Note: this field may return null, indicating that no valid values can be obtained.

SrcImage

Image source information

Used by actions: DescribeImage, DescribeInstances, DescribeModuleDetail, DescribeSnapshots.

Name	Type	Description
ImageId	String	Image ID
ImageName	String	Image name
ImageOsName	String	System name
ImageDescription	String	Image description
Region	String	Region
RegionID	Integer	Region ID
RegionName	String	Region name
InstanceName	String	Source instance name
InstanceId	String	Source instance ID
ImageType	String	Source image type

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Subnet

Subnet object

Used by actions: CreateSubnet, CreateVpc, DescribeDefaultSubnet, DescribeSubnets, DescribeVpcs.

Name	Type	Description
VpcId	String	VPC instance ID.
SubnetId	String	Subnet instance ID, such as `subnet-bthucmmy` .
SubnetName	String	Subnet name.
CidrBlock	String	IPv4 CIDR block of the subnet.
IsDefault	Boolean	Whether it is the default subnet.
EnableBroadcast	Boolean	Whether to enable broadcast.
RouteTableId	String	Route table instance ID, such as `rtb-l2h8d7c2` .
CreatedTime	String	Creation time.
AvailableIpAddressCount	Integer	Number of available IPs.
Ipv6CidrBlock	String	IPv6 CIDR block of the subnet.
NetworkAclId	String	Associated ACLID
IsRemoteVpcSnat	Boolean	Whether it is an SNAT address pool subnet.
TagSet	Array of Tag	Tag key-value pairs. Note: this field may return null, indicating that no valid values can be obtained.
Zone	String	Region
ZoneName	String	AZ name Note: this field may return null, indicating that no valid values can be obtained.
InstanceCount	Integer	Number of instances Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
VpcCidrBlock	String	IPv4 CIDR block of the VPC. Note: this field may return null, indicating that no valid values can be obtained.
VpcIpv6CidrBlock	String	IPv6 CIDR block of the VPC. Note: this field may return null, indicating that no valid values can be obtained.
Region	String	Region Note: this field may return null, indicating that no valid values can be obtained.

SystemDisk

System disk description.

Used by actions: CreateModule, DescribeModuleDetail, DescribePriceRunInstance, ModifyModuleConfig, RunInstances.

Name	Type	Required	Description
DiskType	String	No	Disk type. Valid values: - LOCAL_BASIC: local disk; - CLOUD_PREMIUM: Premium Cloud Storage; Default value: CLOUD_BASIC.
DiskId	String	No	Disk ID. This parameter is temporarily unavailable.
DiskSize	Integer	No	Disk size in GB.

Tag

Tag information.

Used by actions: AllocateAddresses, CreateModule, CreateNetworkInterface, CreateSecurityGroup, CreateSubnet, CreateVpc, DescribeDefaultSubnet, DescribeInstances, DescribeModuleDetail, DescribeNetworkInterfaces, DescribeSecurityGroups, DescribeSubnets, DescribeVpcs, ModifySubnetAttribute, ModifyVpcAttribute, RunInstances.

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Name	Type	Required	Description
Key	String	Yes	Tag key. Note: this field may return null, indicating that no valid values can be obtained.
Value	String	Yes	Tag value. Note: this field may return null, indicating that no valid values can be obtained.

TagInfo

Tag information.

Used by actions: CreateLoadBalancer, DescribeLoadBalancers.

Name	Type	Required	Description
TagKey	String	No	Tag key.
TagValue	String	No	Tag value.

TagSpecification

Resource type tag

Used by actions: CreateModule, RunInstances.

Name	Type	Required	Description
ResourceType	String	Yes	Resource type. Valid values: instance, module
Tags	Array of Tag	Yes	Tag list

Target

CLB backend target

Used by actions: BatchModifyTargetWeight, ModifyTargetPort, ModifyTargetWeight.

Name	Type	Required	Description

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Name	Type	Required	Description
Port	Integer	No	Listening port of the real server Note: this field may return null, indicating that no valid values can be obtained.
InstanceId	String	No	CVM instance ID Note: this field may return null, indicating that no valid values can be obtained.
Weight	Integer	No	Forwarding weight of the real server. Value range: [0, 100]. Default value: 10. Note: this field may return null, indicating that no valid values can be obtained.
EniIp	String	No	You need to pass in this parameter when binding an ENI. It represents the IP address of the ENI. You must bind an ENI to a CVM instance first before you can bind it to a CLB instance. Note: you must pass in either `InstanceId` or `EniIp` . Note: this field may return null, indicating that no valid values can be obtained.

TargetHealth

Health check status of the backend

Used by actions: DescribeTargetHealth.

Name	Type	Description
IP	String	Private IP of the target Note: this field may return null, indicating that no valid values can be obtained.
Port	Integer	Port bound to the target Note: this field may return null, indicating that no valid values can be obtained.
HealthStatus	Boolean	Current health status. Valid values: true: healthy; false: unhealthy (e.g., check not started, checking, or exceptional status). CLB instance will route traffic to only healthy real servers whose weights are greater than 0. Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
TargetId	String	Instance ID of the target Note: this field may return null, indicating that no valid values can be obtained.
HealthStatusDetail	String	Detailed information of the current health status. Valid values: Alive: healthy; Dead: exceptional; Unknown: check not started/checking/unknown status; Close: health check not configured. Note: this field may return null, indicating that no valid values can be obtained.

TargetsWeightRule

Description of targets and their weights

Used by actions: BatchModifyTargetWeight.

Name	Type	Required	Description
ListenerId	String	No	CLB listener ID Note: this field may return null, indicating that no valid values can be obtained.
Targets	Array of Target	No	List of real servers for which to modify the weights Note: this field may return null, indicating that no valid values can be obtained.
Weight	Integer	No	New forwarding weight of the real server. Value range: 0–100. Note: this field may return null, indicating that no valid values can be obtained.

TaskInput

Task query

Used by actions: DescribeTaskStatus.

Name	Type	Required	Description
Operation	String	Yes	Operation name, i.e., API name, such as `CreateImage`

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Name	Type	Required	Description
TaskId	String	Yes	Task ID

TaskOutput

Output parameter of the task query

Used by actions: DescribeTaskStatus.

Name	Type	Description
TaskId	String	Task ID
Message	String	Status description
Status	String	Status value. Valid values: SUCCESS, FAILED, OPERATING
AddTime	String	Task submission time
EndTime	String	Task end time
Operation	String	Operation name

VirtualPrivateCloud

VPC information configuration.

Used by actions: DescribeInstances.

Name	Type	Required	Description
VpcId	String	Yes	VPC ID, such as `vpc-xxx` .
SubnetId	String	Yes	Subnet ID of the VPC, such as `subnet-xxx` .
AsVpcGateway	Boolean	No	Whether it is used as a public gateway. The public gateway can be used only when the instance has a public IP and resides in a VPC. Valid values: TRUE: yes FALSE: no Default value: FALSE.

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Name	Type	Required	Description
PrivateIpAddresses	Array of String	No	Array of VPC subnet IPs. This parameter can be used to create instances or modify the VPC attributes of instances.
Ipv6AddressCount	Integer	No	Number of the IPv6 addresses to be randomly generated for the ENI.

VpcInfo

VPC object.

Used by actions: CreateVpc, DescribeVpcs.

Name	Type	Description
VpcName	String	VPC name.
VpcId	String	VPC instance ID, such as `vpc-azd4dt1c` .
CidrBlock	String	IPv4 CIDR block of the VPC.
IsDefault	Boolean	Whether it is the default VPC.
EnableMulticast	Boolean	Whether to enable multicast.
CreatedTime	String	Creation time.
DnsServerSet	Array of String	List of DNS servers. Note: this field may return null, indicating that no valid values can be obtained.
DomainName	String	DHCP domain option value.
DhcpOptionsId	String	DHCP option set ID.
EnableDhcp	Boolean	Whether to enable DHCP.
Ipv6CidrBlock	String	IPv6 CIDR block of the VPC.
TagSet	Array of Tag	Tag key-value pair Note: this field may return null, indicating that no valid values can be obtained.

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Name	Type	Description
AssistantCidrSet	Array of AssistantCidr	Secondary CIDR block Note: this field may return null, indicating that no valid values can be obtained.
Region	String	Region
Description	String	Description
RegionName	String	Region name
SubnetCount	Integer	Number of included subnets
InstanceCount	Integer	Number of included instances

ZoneInfo

Zone information

Used by actions: DescribeInstances, DescribeLoadBalancers, DescribeMonthPeakNetwork, DescribeNode.

Name	Type	Description
ZoneId	Integer	ZoneId
ZoneName	String	ZoneName
Zone	String	Zone

ZoneInstanceCountISP

Combination of the instance AZ, number of instances to be created, and ISP;

Used by actions: RunInstances.

Name	Type	Required	Description
Zone	String	Yes	The AZ in which to create an instance.
InstanceCount	Integer	Yes	Number of instances to be created in the current AZ.

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Name	Type	Required	Description
ISP	String	Yes	ISP name. Valid values: CTCC: China Telecom CUCC: China Unicom CMCC: China Mobile If there are multiple ISP names, you need to separate them by semicolons, such as `CMCC;CUCC;CTCC` . To use multiple ISPs, contact Tencent Cloud customer service for assistance.
VpcId	String	No	ID of the specified VPC. You must specify both `SubnetId` and `VpcId` or neither
SubnetId	String	No	ID of the specified subnet. You must specify both `SubnetId` and `VpcId` or neither
PrivateIpAddresses	Array of String	No	Private IP of the specified primary ENI. You must specify both `SubnetId` and `VpcId` at the same time. The number of IP addresses must be the same as `InstanceCount` . You can get the private IP of the secondary ENI of a multi-IP server through DHCP in the same subnet.
Ipv6AddressCount	Integer	No	Number of the IPv6 addresses to be randomly generated for the ENI, which cannot be greater than 1.

ZoneInstanceInfo

Instance information of the zone

Used by actions: DescribeModuleDetail.

Name	Type	Description
ZoneName	String	Zone name
InstanceNum	Integer	Number of instances

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Error Codes

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Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please check your si
gnature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	`Authorization` in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

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	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

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	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
FailedOperation.BlockBalance	Insufficient balance.
FailedOperation.DataOperationFailed	Data operation failed.
FailedOperation.ImageInUse	The image is in use.
FailedOperation.InstanceInModule	An instance already exists under the module.
FailedOperation.InstanceNotAllStopped	Not all instances are shut down.
FailedOperation.InstanceOwnerCheckFailed	The instance does not belong to the current module.
FailedOperation.InternalOperationFailure	Internal error.
FailedOperation.InvalidStatus	This operation cannot be performed in the cu status.

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FailedOperation.OperationConflict	The current operation cannot be performed a another operation is being performed.
FailedOperation.OperationNotAllow	The current operation is not allowed.
FailedOperation.PrivateIpAddressBinded	The private IP has been bound to an EIP.
FailedOperation.PrivateIpAddressUnavailable	The private IP is unavailable.
InvalidParameter.Coexist	The parameters cannot be specified at the sa time.
InvalidParameter.FormatError	The parameter format is incorrect.
InvalidParameter.InvalidDataFormat	The data format is incorrect.
InvalidParameter.InvalidParameterConflict	The two specified parameters conflict. An EIF only be bound to an instance or the specified private IP of the specified ENI.
InvalidParameter.LBIdNotFound	The CLB instance ID is incorrect.
InvalidParameter.ListenerIdNotFound	The listener ID is incorrect.
InvalidParameter.LocationNotFound	No eligible forwarding rules were found.
InvalidParameter.ParameterConflict	Only `KeepImageLogin` , `Password` , c `KeyIds` can be used at a time.
InvalidParameter.PortCheckFailed	Listener port check failed due to a port conflic
InvalidParameter.ProtocolCheckFailed	Listener protocol check failed, because this operation is not supported by the protocol.
InvalidParameter.RegionNotFound	The region is invalid.
InvalidParameterValue.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
InvalidParameterValue.BandwidthOutOfRange	The bandwidth exceeds the limit.
InvalidParameterValue.CidrNotInPeerVpc	The destination IP range is not within the CID range of the customer VPC.
InvalidParameterValue.Duplicate	The data is duplicate.
InvalidParameterValue.FilterLimitExceeded	The value of the `Filter` parameter excee the limit.
InvalidParameterValue.ImageDuplicate	An image has already been imported.

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InvalidParameterValue.ImageNameDuplicate	The image name is duplicate.
InvalidParameterValue.ImageSizeLargeThanSysDiskSize	The image size is greater than the system dis size.
InvalidParameterValue.InstanceConfigNotMatch	The instance configuration does not match.
InvalidParameterValue.InstanceIdNotSupported	The instance does not support the current operation.
InvalidParameterValue.InstanceNameTooLong	The instance name length exceeds the limit.
InvalidParameterValue.InstanceTypeNotMatchPid	The instance model and `pid` do not match
InvalidParameterValue.InvaildAddressId	The EIP is invalid.
InvalidParameterValue.InvaildDescribeInstance	Your input is incorrect, or you have no permis for the operation.
InvalidParameterValue.InvaildEniID	The ENI ID is invalid.
InvalidParameterValue.InvaildHostName	`HostName` is invalid.
InvalidParameterValue.InvaildModifyParam	The parameter is incorrect.
InvalidParameterValue.InvaildModuleNum	The number of modules is invalid.
InvalidParameterValue.InvaildPageParam	The pagination parameter is invalid.
InvalidParameterValue.InvaildPassword	The password is invalid.
InvalidParameterValue.InvalidAddressCount	When you bind an ENI synchronously, you ca apply for only one EIP at a time.
InvalidParameterValue.InvalidBandwidth	The bandwidth size is invalid.
InvalidParameterValue.InvalidBandwidthIn	The inbound bandwidth size exceeds the limi
InvalidParameterValue.InvalidBandwidthInAndOut	The inbound and outbound bandwidth must b same.
InvalidParameterValue.InvalidBillingType	The selected billing mode is not supported.
InvalidParameterValue.InvalidDataDiskNum	The number of data disks is invalid.
InvalidParameterValue.InvalidDataDiskSize	The data disk size is invalid.
InvalidParameterValue.InvalidDataDiskType	The data disk type is invalid.

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InvalidParameterValue.InvalidEIPDirectService	Windows images do not support IP direct acc
InvalidParameterValue.InvalidEcmRegion	The region parameter is invalid.
InvalidParameterValue.InvalidFilter	The filter is invalid.
InvalidParameterValue.InvalidISPInNode	The ISP is invalid.
InvalidParameterValue.InvalidImageArchitecture	Models with a memory of 4 GB or above do n support 32-bit OS images.
InvalidParameterValue.InvalidImageID	The image ID is invalid.
InvalidParameterValue.InvalidInstanceChargeType	The billing mode of the instance is invalid.
InvalidParameterValue.InvalidInstanceID	The instance ID is invalid.
InvalidParameterValue.InvalidInstanceType	The configuration of a High-IO model cannot adjusted.
InvalidParameterValue.InvalidInstanceTypeConfigID	The model ID is invalid.
InvalidParameterValue.InvalidInternetChargeType	The billing mode is invalid.
InvalidParameterValue.InvalidKeyPairId	Invalid key ID.
InvalidParameterValue.InvalidKeyPairName	Invalid key name.
InvalidParameterValue.InvalidLoadBalancerNum	The number of CLB instances is invalid.
InvalidParameterValue.InvalidLoadBalancerType	The CLB instance type is invalid.
InvalidParameterValue.InvalidModuleID	The module ID is invalid.
InvalidParameterValue.InvalidModuleIDAndInstanceTypeConfigID	The `ModuleId` and `InstanceType` parameters cannot be both empty.
InvalidParameterValue.InvalidModuleIDAndInstanceTypeID	The `ModuleId` and `InstanceType` parameters cannot be both empty.
InvalidParameterValue.InvalidModuleName	The module names conflict.
InvalidParameterValue.InvalidOrderByField	The sort field is invalid.
InvalidParameterValue.InvalidPublicParam	The common parameter is invalid.
InvalidParameterValue.InvalidRegion	The ECM region is invalid.
InvalidParameterValue.InvalidSecurityGroupID	The security group ID is invalid.

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InvalidParameterValue.InvalidSnapshot	InvalidParameterValue.InvalidSnapshot
InvalidParameterValue.InvalidSnapshotId	InvalidParameterValue.InvalidSnapshotId
InvalidParameterValue.InvalidSubnetInZone	The node does not exist in this subnet.
InvalidParameterValue.InvalidSystemDiskSize	The system disk size is invalid.
InvalidParameterValue.InvalidSystemDiskType	The system disk type is invalid.
InvalidParameterValue.InvalidTime	The time is invalid.
InvalidParameterValue.InvalidZone	The zone is invalid.
InvalidParameterValue.InvalidZoneInstanceCount	The city or quantity is invalid.
InvalidParameterValue.InvalidZoneInstanceType	This model is not supported in the AZ.
InvalidParameterValue.Length	The parameter length is incorrect.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	The input parameter format is invalid.
InvalidParameterValue.ModuleNotAllowChange	The default configuration of an ECM module associated with instances cannot be modifiec
InvalidParameterValue.NodeNotSupportIPv6	The node does not support IPv6.
InvalidParameterValue.ObjectNotCurrentSubnet	The object is not in the current subnet.
InvalidParameterValue.ObjectVpcNotCurrentVpc	The specified object is not the current VPC.
InvalidParameterValue.ParameterValueTooLarge	The parameter value exceeds the limit.
InvalidParameterValue.Range	The parameter value is not in the specified ra
InvalidParameterValue.Reserved	The parameter value is an object retained by system.
InvalidParameterValue.SubnetConflict	The specified CIDR block conflicts with anoth subnet in the same VPC.
InvalidParameterValue.SubnetNotExist	
InvalidParameterValue.SubnetRange	The subnet IP range is invalid.
InvalidParameterValue.TagNumOutOfRange	The number of tags exceeds the limit.
InvalidParameterValue.TaskNotFound	The task was not found.

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InvalidParameterValue.TerminateTimeSmaller	The scheduled termination time is before the current time.
InvalidParameterValue.TooLong	The parameter value is too long.
InvalidParameterValue.UnmatchedBillingType	The model does not support the selected billi mode.
InvalidParameterValue.UnsupportedRegion	The region is not supported.
InvalidParameterValue.UserNotSupportIPv6	IPv6 is not supported.
InvalidParameterValue.VpcCidrConflict	The destination IP range conflicts with the CI block of the current VPC.
LimitExceeded.AddressQuotaLimitExceeded	The number applied for exceeds the limit.
LimitExceeded.AddressQuotaLimitExceededDailyAllocate	The maximum number of applications has be reached. The maximum number of applicatio that can be made by a Tencent Cloud accour day in each region is equal to twice the quota
LimitExceeded.CidrBlock	Exceeded the upper limit of the assigned IPv ranges.
LimitExceeded.EniQuotaLimitExceeded	The number of purchasable ENIs is insufficie
LimitExceeded.InstanceSecurityGroupLimitExceeded	The number of security groups bound to the instance exceeds the limit.
LimitExceeded.LBLimitExceeded	The number of CLB instances applied for exc the limit.
LimitExceeded.ModuleSecurityGroupLimitExceeded	The number of default module security group exceeds the limit.
LimitExceeded.NicOrIPLimitExceeded	The number of ENIs or public IPs exceeds th specified by the CPU.
LimitExceeded.PrivateIPQuotaLimitExceeded	The number of private IPs exceeds the limit.
LimitExceeded.SecurityGroupInstanceLimitExceeded	The number of instances bound to the securi group exceeds the limit.
LimitExceeded.SecurityGroupModuleLimitExceeded	The number of modules that can be associat with the security group exceeds the limit.
LimitExceeded.SecurityGroupPolicySet	The number of security group rules exceeds t

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	upper limit.
LimitExceeded.VcpuLimitExceeded	The number of CPU cores applied for exceec limit.
MissingParameter.MissingAssociateEntity	The entity parameter to be associated is miss
MissingParameter.MissingBaseConfigParameter	The request parameters required to get the b configuration are incomplete.
MissingParameter.MissingImageParameter	The image operation parameters are incompl
MissingParameter.MissingInstanceTypeConfigParameter	The model operation parameters are incompl
MissingParameter.MissingInstancesParameter	The instance operation parameters are incomplete.
MissingParameter.MissingModuleParameter	The module operation parameters are incomp
MissingParameter.MissingNetworkInterfaceParameter	The request parameters required for ENI ope configuration are missing.
MissingParameter.MissingNodeParameter	The node operation parameters are incomple
MissingParameter.MissingOverViewParameter	The request parameters required to get the configuration of the overview page are incom
MissingParameter.MissingPrivateIpAddress	The private IP address is missing.
OperationDenied.InstanceOperationInProgress	The current operation is not allowed.
ResourceInsufficient.IPQuotaNotEnough	Insufficient IP resource.
ResourceInsufficient.InstanceQuotaNotEnough	The instance resource is insufficient.
ResourceInsufficient.InvaildPrivateImageNum	The number of private images exceeds the lir
ResourceInsufficient.PrivateIPQuotaNotEnough	
ResourceNotFound.InstanceNotExist	The instance is invalid.
ResourceUnavailable.InstanceNotRunning	The instance is not running.
ResourcesSoldOut.LoadBalancerSoldOut	CLB instances have been sold out.
ResourcesSoldOut.SpecifiedInstanceType	
UnauthorizedOperation.ForbiddenOperation	You don't have the permission to perform this operation.

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UnauthorizedOperation.MFAExpired	UnauthorizedOperation.MFAExpired
UnsupportedOperation.AddressIdNotFound	The IP was not found.
UnsupportedOperation.AlreadyBindEip	The specified instance has been bound to an You must unbind it from the current EIP first b you can bind it to another EIP.
UnsupportedOperation.AttachmentAlreadyExists	The ENI is already associated with an instanc
UnsupportedOperation.AttachmentNotFound	The instance is not associated.
UnsupportedOperation.DelDefaultRoute	The default route table cannot be deleted.
UnsupportedOperation.DelRouteWithSubnet	The route table associated with a subnet can be deleted.
UnsupportedOperation.DuplicatePolicy	The security group policy is duplicate.
UnsupportedOperation.Ecmp	The ECMP is not supported.
UnsupportedOperation.EcmpWithCcnRoute	ECMP was formed with the CCN route.
UnsupportedOperation.EcmpWithUserRoute	ECMP was formed with the custom route.
UnsupportedOperation.InstanceIdNotFound	The instance ID is invalid, as the specified instance ID does not exist.
UnsupportedOperation.InstanceIdNotSupported	The instance is not supported.
UnsupportedOperation.InstanceTypeNotSupportImage	The current model does not support the selec image.
UnsupportedOperation.InvalidInstanceState	This operation cannot be performed in the cu status.
UnsupportedOperation.InvalidNetworkInterfaceIdNotFound	The specified `NetworkInterfaceId` do not exist, or the specified `PrivateIpAddr` is not on the `NetworkInterfaceId` .
UnsupportedOperation.InvalidPrivateIpAddressAlreadyBindEip	The specified private IP of the specified ENI h already been bound to an EIP. A private IP ca be bound to more than one EIP.
UnsupportedOperation.InvalidState	The resource status is invalid.
UnsupportedOperation.Malformed	Please check whether the provided IP addres complete.

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UnsupportedOperation.MutexOperationTaskRunning	A task with a mutually exclusive resource is b executed.
UnsupportedOperation.QuotaLimitExceeded	The instance specification supports binding c three EIPs.
UnsupportedOperation.SnapHasShared	UnsupportedOperation.SnapHasShared
UnsupportedOperation.SnapshotHasBindedImage	UnsupportedOperation.SnapshotHasBindedI
UnsupportedOperation.StatusNotPermit	This operation cannot be performed in the cu status.
UnsupportedOperation.SystemRoute	Operations on the system route are prohibite
UnsupportedOperation.VersionMismatch	The specified version number of the security rule is inconsistent with the latest version.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

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