# Edge Computing Machine

# API Documentation

## Product Documentation

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# Contents

API Documentation
History
API Category
Making API Requests
Request Structure
Common Params
Signature v3
Signature
Responses
Region APIs
DescribeNode
Module APIs
ModifyModuleNetwork
ModifyModuleName
ModifyModuleImage
DescribeModuleDetail
DescribeModule
DeleteModule
CreateModule
ModifyModuleConfig
ModifyModuleIpDirect
ModifyModuleSecurityGroups
ModifyModuleDisableWanIp
Instance APIs
TerminateInstances
ResetInstancesMaxBandwidth
ResetInstances
RebootInstances
ModifyInstancesAttribute
DescribeInstancesDeniedActions
RunInstances
StopInstances
StartInstances
ResetInstancesPassword
DescribeInstanceVncUrl

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- DisassociateSecurityGroups
- AssociateSecurityGroups
- DescribePriceRunInstance
- DescribeInstances

Image APIs

- DescribeImage
- DeleteImage
- ImportImage
- DescribeImportImageOs
- DescribeCustomImageTask
- ModifyImageAttribute
- CreateImage

VPC APIs

- ModifyVpcAttribute
- DeleteVpc
- CreateVpc
- DescribeVpcs

Subnet APIs

- CreateSubnet
- DescribeSubnets
- ModifySubnetAttribute
- DeleteSubnet
- ModifyDefaultSubnet
- DescribeDefaultSubnet

Route Table APIs

- CreateRouteTable
- DescribeRouteTables
- ReplaceRouteTableAssociation
- ModifyRouteTableAttribute
- ResetRoutes
- DeleteRouteTable
- CreateRoutes
- ReplaceRoutes
- DescribeRouteConflicts
- EnableRoutes
- DisableRoutes
- DeleteRoutes

CLB APIs


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- ModifyTargetWeight
- ModifyTargetPort
- ModifyLoadBalancerAttributes
- ModifyListener
- DescribeTargets
- DescribeTargetHealth
- DescribeLoadBalancers
- DescribeLoadBalanceTaskStatus
- DescribeListeners
- DeleteLoadBalancerListeners
- DeleteLoadBalancer
- DeleteListener
- CreateLoadBalancer
- CreateListener
- BatchRegisterTargets
- BatchModifyTargetWeight
- BatchDeregisterTargets
- SetSecurityGroupForLoadbalancers
- SetLoadBalancerSecurityGroups

ENI APIs

- CreateNetworkInterface
- DescribeNetworkInterfaces
- AttachNetworkInterface
- DetachNetworkInterface
- MigrateNetworkInterface
- AssignPrivateIpAddresses
- RemovePrivateIpAddresses
- MigratePrivateIpAddress
- DeleteNetworkInterface
- ReleaseIpv6Addresses
- ModifyIpv6AddressesAttribute
- AssignIpv6Addresses
- ModifyPrivateIpAddressesAttribute

EIP APIs

- ReleaseAddresses
- ModifyAddressesBandwidth
- ModifyAddressAttribute
- DisassociateAddress

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- DescribeTaskResult
- DescribeAddresses
- DescribeAddressQuota
- AssociateAddress
- AllocateAddresses

HAVIP APIs

- ModifyHaVipAttribute
- DescribeHaVips
- DeleteHaVip
- CreateHaVip

Snapshot APIs

- DescribeSnapshots
- DeleteSnapshots

Security Group APIs

- CreateSecurityGroup
- ReplaceSecurityGroupPolicy
- ModifySecurityGroupPolicies
- ModifySecurityGroupAttribute
- DescribeSecurityGroups
- DescribeSecurityGroupPolicies
- DescribeSecurityGroupLimits
- DescribeSecurityGroupAssociationStatistics
- DeleteSecurityGroupPolicies
- DeleteSecurityGroup
- CreateSecurityGroupPolicies

Key APIs

- DisassociateInstancesKeyPairs
- CreateKeyPair

Other API

- DescribePeakNetworkOverview
- DescribePeakBaseOverview
- DescribeInstanceTypeConfig
- DescribeConfig
- DescribeBaseOverview
- DescribeTaskStatus
- DescribeMonthPeakNetwork
- DescribePackingQuotaGroup

Data Types


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Error Codes

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# API Documentation History

Last updated：2023-08-18 14:27:56

## Release 4

Release time: 2023-02-06 10:39:47

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 time: 2022-06-01 18:38:21

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
- AssignPrivateIpAddresses
- AssociateAddress
- AssociateSecurityGroups
- AttachNetworkInterface
- BatchDeregisterTargets
- BatchModifyTargetWeight
- BatchRegisterTargets
- CreateHaVip
- CreateImage
- CreateKeyPair
- CreateListener
- CreateLoadBalancer
- CreateModule
- CreateNetworkInterface
- CreateRouteTable
- CreateRoutes
- CreateSecurityGroup
- CreateSecurityGroupPolicies
- CreateSubnet

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- CreateVpc
- DeleteHaVip
- DeleteImage
- DeleteListener
- DeleteLoadBalancer
- DeleteLoadBalancerListeners
- DeleteModule
- DeleteNetworkInterface
- DeleteRouteTable
- DeleteRoutes
- DeleteSecurityGroup
- DeleteSecurityGroupPolicies
- DeleteSnapshots
- DeleteSubnet
- DeleteVpc
- DescribeAddressQuota
- DescribeAddresses
- DescribeBaseOverview
- DescribeConfig
- DescribeCustomImageTask
- DescribeDefaultSubnet
- DescribeHaVips
- DescribeImage
- DescribeImportImageOs
- DescribeInstanceTypeConfig
- DescribeInstanceVncUrl
- DescribeInstances
- DescribeInstancesDeniedActions
- DescribeListeners
- DescribeLoadBalanceTaskStatus
- DescribeLoadBalancers
- DescribeModule
- DescribeModuleDetail
- DescribeMonthPeakNetwork
- DescribeNetworkInterfaces
- DescribeNode
- DescribePackingQuotaGroup
- DescribePeakBaseOverview

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- DescribePeakNetworkOverview
- DescribePriceRunInstance
- DescribeRouteConflicts
- DescribeRouteTables
- DescribeSecurityGroupAssociationStatistics
- DescribeSecurityGroupLimits
- DescribeSecurityGroupPolicies
- DescribeSecurityGroups
- DescribeSnapshots
- DescribeSubnets
- DescribeTargetHealth
- DescribeTargets
- DescribeTaskResult
- DescribeTaskStatus
- DescribeVpcs
- DetachNetworkInterface
- DisableRoutes
- DisassociateAddress
- DisassociateInstancesKeyPairs
- DisassociateSecurityGroups
- EnableRoutes
- ImportImage
- MigrateNetworkInterface
- MigratePrivateIpAddress
- ModifyAddressAttribute
- ModifyAddressesBandwidth
- ModifyDefaultSubnet
- ModifyHaVipAttribute
- ModifyImageAttribute
- ModifyInstancesAttribute
- ModifyIpv6AddressesAttribute
- ModifyListener
- ModifyLoadBalancerAttributes
- ModifyModuleConfig
- ModifyModuleDisableWanIp
- ModifyModuleImage
- ModifyModuleIpDirect
- ModifyModuleName

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- ModifyModuleNetwork
- ModifyModuleSecurityGroups
- ModifyPrivateIpAddressesAttribute
- ModifyRouteTableAttribute
- ModifySecurityGroupAttribute
- ModifySecurityGroupPolicies
- ModifySubnetAttribute
- ModifyTargetPort
- ModifyTargetWeight
- ModifyVpcAttribute
- RebootInstances
- ReleaseAddresses
- ReleaseIpv6Addresses
- RemovePrivateIpAddresses
- ReplaceRouteTableAssociation
- ReplaceRoutes
- ReplaceSecurityGroupPolicy
- ResetInstances
- ResetInstancesMaxBandwidth
- ResetInstancesPassword
- ResetRoutes
- RunInstances
- SetLoadBalancerSecurityGroups
- SetSecurityGroupForLoadbalancers
- StartInstances
- StopInstances
- TerminateInstances

New data structures:

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

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- Country
- DataDisk
- DiskInfo
- EipQuota
- EnhancedService
- Filter
- HaVip
- HealthCheck
- ISP
- ISPCounter
- Image
- ImageLimitConfig
- ImageOsList
- ImageTask
- Instance
- InstanceFamilyConfig
- InstanceFamilyTypeConfig
- InstanceNetworkInfo
- InstanceNetworkLimitConfig
- InstanceOperator
- InstancePricesPartDetail
- InstanceStatistic
- InstanceTypeConfig
- InstancesPrice
- Internet
- Ipv6Address
- KeyPair
- Listener
- ListenerBackend
- ListenerHealth
- LoadBalancer
- LoadBalancerHealth
- LoadBalancerInternetAccessible
- Module
- ModuleCounter
- ModuleItem
- MonthNetwork
- NetworkInterface

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- NetworkInterfaceAttachment
- NetworkStorageRange
- Node
- NodeInstanceNum
- OperatorAction
- OsVersion
- PackingQuotaGroup
- PackingQuotaInfo
- PeakBase
- PeakFamilyInfo
- PeakNetwork
- PeakNetworkRegionInfo
- PhysicalPosition
- Placement
- Position
- PriceDetail
- PrivateIPAddressInfo
- PrivateIpAddressSpecification
- Province
- PublicIPAddressInfo
- RegionInfo
- Route
- RouteConflict
- RouteTable
- RouteTableAssociation
- RuleHealth
- RunEIPDirectServiceEnabled
- RunMonitorServiceEnabled
- RunSecurityServiceEnabled
- SecurityGroup
- SecurityGroupAssociationStatistics
- SecurityGroupLimitSet
- SecurityGroupPolicy
- SecurityGroupPolicySet
- ServiceTemplateSpecification
- SimpleModule
- Snapshot
- SrcImage

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- Subnet
- SystemDisk
- Tag
- TagInfo
- TagSpecification
- Target
- TargetHealth
- TargetsWeightRule
- TaskInput
- TaskOutput
- VirtualPrivateCloud
- VpcInfo
- ZoneInfo
- ZoneInstanceCountISP
- ZoneInstanceInfo

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# API Category

Last updated：2023-08-18 14:27:56

## 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

Last updated：2023-08-18 14:27:56

## 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

Last updated：2022-06-01 18:41:15

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:<br>TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ<br>SignedHeaders=content-type;host,<br>Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317<br>Here:<br>- TC3-HMAC-SHA256: Signature method, currently fixed as this value;<br>- 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;<br>- SignedHeaders: The headers that contains the authentication informatic type and host are the required headers;<br>- 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

Last updated：2022-06-01 18:41:16

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。<br>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.<br>Concatenation rules:<br>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;<br>2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase).<br><br>The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` .<br>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.<br>Concatenation rules:<br>1. Both the key and value of the header should be converted to lowercase;<br>2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;).<br><br>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<br>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

Last updated：2022-06-09 10:26:29

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<br>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
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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

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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

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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.<br>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.<br>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

### 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

# 6. Error Code

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.<br>module-name - string - Required: no - (Filter) Filter by module name.<br>module-id - string - Required: no - (Filter) Filter by module ID.<br>image-id String Required: no (Filter) Filter by image ID.<br>instance-family String Required: no (Filter) Filter by model family.<br>security-group-id - string Required: no - (Filter) Filter by ID of the security group bound to the module.<br>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:<br>instance-num: sort by the number of instances.<br>node-num: sort by the number of nodes.<br>timestamp: sort by instance creation time.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ModuleItemSet | Array of ModuleItem | List of module details.<br>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

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

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| 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:<br>true: yes<br>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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- 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.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

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.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:<br>true: yes<br>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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- 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.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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### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

The 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

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

### Command Line Interface

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- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| FailedOperation.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.<br>true: the ENI and EIP will also be deleted;<br>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

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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. |
| 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 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.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:<br>TRUE: yes<br>FALSE: no<br><br>Default value: FALSE.<br>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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- 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. |

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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:<br>TRUE: yes; |

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| | | | |
|---|---|---|---|
| | | | FALSE: no;<br>Default value: FALSE. |
| StopType | No | String | Shutdown type. Valid values:<br>SOFT: soft shutdown<br>HARD: hard shutdown<br>SOFT_FIRST: perform a soft shutdown first; if it fails, perform a hard shutdown<br><br>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 .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.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
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

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- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| FailedOperation.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.<br>1. If you don't specify this parameter or specify it as `0`, the default value under the corresponding module will be used.<br>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.<br>If this parameter is not specified, `Not named` will be displayed by default.<br>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.<br>You can specify multiple pattern strings `{R:x}` .<br>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.<br>If the purchased instances belong to different regions or ISPs, the above rules will apply to each region and ISP independently.<br>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.<br>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.<br>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:<br>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;<br>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;<br>2: monthly postpaid at the unit price of xx USD/instance/month. This billing mode applies only to GNR models;<br>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:<br>TRUE: yes<br>FALSE: no<br><br>Default value: FALSE.<br>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<br>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

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.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;<br>HARD: forced shutdown;<br>SOFT: Soft shutdown;<br>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

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.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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- 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.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 `/` .<br>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 `/` .<br>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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- 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.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

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. |
| 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

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

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

### 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++

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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. |
| 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;<br>`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;<br>`2` : Bill by usage month of an instance. It applies only to GNR models.<br>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.

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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.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.<br>zone String Required: no (Filter) Filter by AZ abbreviation.<br>zone-name String Required: no (Filter) Filter by AZ name. Fuzzy match is supported.<br>module-id String Required: no (Filter) Filter by module ID.<br>instance-id String Required: no (Filter) Filter by instance ID.<br>instance-name String Required: no (Filter) Filter by instance name. Fuzzy match is supported.<br>ip-address String Required: no (Filter) Filter by the instance's private/public IP.<br>instance-uuid string Required: no (Filter) Filter instances by |

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| | | | |
|---|---|---|---|
| | | | `uuid` .<br>instance-state string Required: no (Filter) Update instances by instance status.<br>internet-service-provider String Required: no (Filter) Filter by the ISP of the instance's public IP.<br>tag-key String Required: no (Filter) Filter by tag key.<br>tag:tag-key String Required: no (Filter) Filter by tag key-value pair. Replace `tag-key` with the specific tag key.<br>instance-family String Required: no (Filter) Filter by model family.<br>module-name String Required: no (Filter) Filter by module name. Fuzzy match is supported.<br>image-id String Required: no (Filter) Filter by instance image ID.<br>vpc-id String Required: no (Filter) Filter by instance VPC ID.<br>subnet-id String Required: no (Filter) Filter by instance subnet ID.<br><br>If the `Filters` parameter is not specified, the information of all relevant instances will be queried.<br>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:<br>timestamp: sort by instance creation time.<br>Note: you can sort only by creation time currently. More sort criteria may be supported in the future.<br>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.<br>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

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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.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:<br>image-id - String - Required: no - (Filter) Filter by image ID.<br>image-type - String - Required: no - (Filter) Filter by image type. Valid values:<br>PRIVATE_IMAGE: private image created by the current account<br>PUBLIC_IMAGE: public image created by Tencent Cloud<br>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.<br>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<br>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

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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.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

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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- Tencent Cloud CLI 3.0

# 6. Error Code

The 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

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

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| FailedOperation.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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- Tencent Cloud SDK 3.0 for Java

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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.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.<br>task-id: async task ID<br>image-id: image ID<br>image-name: image name |

## 3. Output Parameters

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

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| Name | | |
| --- | --- | --- |
| ImageTaskSet | Array of ImageTask | Import task details<br>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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- 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. |
| 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:<br>It can contain up to 20 characters.<br>- The image name cannot be the same as existing image names. |
| ImageDescription | No | String | Image description, which must meet the following requirements:<br>- 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

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for 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 | 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:<br>TRUE: yes<br>FALSE: no<br>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

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

- Tencent Cloud SDK 3.0 for Python

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- Tencent Cloud SDK 3.0 for 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.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.

- Tencent Cloud SDK 3.0 for Python

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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 | 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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- 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.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

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

- 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.<br>vpc-name - String - VPC instance name. Only fuzzy query by a single value is supported.<br>vpc-id - String - VPC instance ID, such as `vpc-f49l6u0z`.<br>cidr-block - String - VPC CIDR. Only fuzzy query by a single value is supported. |

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| | | | |
|---|---|---|---|
| | | | region - String - VPC region.<br>tag-key - String - Required: no - Filter by tag key.<br>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.<br>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

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

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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

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

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### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| FailedOperation.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.<br>subnet-id - String - Subnet instance name.<br>subnet-name - String - Subnet name. Only fuzzy query by a single value is supported.<br>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`.<br>vpc-cidr-block - String - VPC IP address range, such as `192.168.1.0`. Only fuzzy query by a single value is supported.<br>region - String - ECM region.<br>zone - String - AZ.<br>tag-key - String - Required: no - Filter by tag key.<br>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.<br>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 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. |
| 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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### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

The 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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### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

The 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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- 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.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 .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.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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- 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.<br>route-table-id - String - (Filter) Route table instance ID.<br>route-table-name - String - (Filter) Route table name.<br>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<br>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

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 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. |
| 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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- 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. |
| 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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### 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. |

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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

- Tencent Cloud CLI 3.0

## 6. Error Code

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

- 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. |
| 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.<br>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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- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| InvalidParameter.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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- 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.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.<br>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

### SDK

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

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- Tencent Cloud SDK 3.0 for 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. |
| 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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### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

The 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

### 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. |
| 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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- 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.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

### 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.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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### SDK

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- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| FailedOperation | Operation failed. |
| FailedOperation.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.<br>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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- 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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# 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.<br>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 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.<br>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 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.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LoadBalancerSet | Array of LoadBalancer | Array of returned CLB instances.<br>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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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| 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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### 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.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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TotalCount | Integer | Total number of listeners<br>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

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.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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- 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. |
| 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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### 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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# 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<br>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

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 | 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.<br>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<br>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

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 | 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.<br>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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- 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. |
| 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

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

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

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- Tencent Cloud SDK 3.0 for 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<br>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

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

- Tencent Cloud SDK 3.0 for Python

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- Tencent Cloud SDK 3.0 for 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.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;<br>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

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

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

- Tencent Cloud CLI 3.0

## 6. Error Code

The 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

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

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- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| FailedOperation | 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.<br>vpc-id - String - (Filter) VPC instance ID, such as `vpc-f49l6u0z` .<br>subnet-id - String - (Filter) Subnet instance ID, such as |

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| | | | |
|---|---|---|---|
| | | | `subnet-f49l6u0z` .<br>network-interface-id - String - (Filter) ENI instance ID, such as `eni-5k56k7k7` .<br>attachment.instance-id - String - (Filter) ID of the bound CVM instance, such as `ein-3nqpdn3i` .<br>groups.security-group-id - String - (Filter) ID of the bound security group instance, such as `sg-f9ekbxeq` .<br>network-interface-name - String - (Filter) ENI instance name.<br>network-interface-description - String - (Filter) ENI instance description.<br>address-ip - String - (Filter) Private IPv4 address.<br>tag-key - String - Required: no - (Filter) Filter by tag key. For directions, see Sample 2.<br>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.<br>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.<br>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

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. |
| 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

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 | 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<br>You must provide either this<br>`PrivateIpAddresses` ,<br>total number of private IP ad<br>exceed the quota. |

## 3. Output Parameters

| Parameter Name | Type | Description |
|---|---|---|
| PrivateIpAddressSet | Array of PrivateIpAddressSpecification | Private IP details.<br>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.

- 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 | 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.

- Tencent Cloud SDK 3.0 for Python

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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

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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.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

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. |
| 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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- 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 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.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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- 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 | 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:<br>`CTCC` : China Telecom<br>`CUCC` : China Unicom<br>`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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- 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 | 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 PHP
- Tencent Cloud SDK 3.0 for Go

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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.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.

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

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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.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

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

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

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- Tencent Cloud SDK 3.0 for 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.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

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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.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:<br>TRUE: yes |

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| | | | |
|---|---|---|---|
| | | | FALSE: no.<br>Default value: FALSE.<br><br>You can specify this parameter only under the following conditions:<br>You can specify this parameter only when you unbind an EIP from the primary private IP of the primary ENI.<br>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 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.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.<br>address-ip - String - Required: no - (Filter) Filter by EIP IP address.<br>address-status - String - Required: no - (Filter) Filter by EIP status. Value range: see the list of EIP status.<br>instance-id - String - Required: no - (Filter) Filter by the ID of the instance bound to the EIP, such as `ins-11112222` .<br>private-ip-address - String - Required: no - (Filter) Filter by the private IP bound to the EIP.<br>network-interface-id - String - Required: no - (Filter) Filter by ID of the ENI bound to the EIP, such as `eni-11112222` .<br>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

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for 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 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.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 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<br>CTCC: China Telecom<br>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.<br>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

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

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

## Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| 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.

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

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

### Command Line Interface

- Tencent Cloud CLI 3.0

## 6. Error Code

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

| Error Code | Description |
| --- | --- |
| InvalidParameter | 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.<br>havip-id - String - Unique HAVIP ID, such as `havip-9o233uri` .<br>havip-name - String - HAVIP name.<br>vpc-id - String - VPC ID of the HAVIP.<br>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.<br>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

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 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.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

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

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- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| FailedOperation | 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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- 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 | 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.<br>• snapshot-id - Array of String - Required: no - (Filter) Filter by snapshot ID, such as `snap-11112222` .<br>• snapshot-name - Array of String - Required: no - (Filter) Filter by snapshot name.<br>• snapshot-state - Array of String - Required: no - (Filter) Filter by snapshot status. NORMAL: normal; CREATING: creating; ROLLBACKING: rolling back.<br>• 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.<br>• project-id - Array of String - Required: no - (Filter) Filter by the project ID of the cloud disk.<br>• disk-id - Array of String - Required: no - (Filter) Filter by the ID of the cloud disk from which a snapshot is created.<br>• zone - Array of String - Required: no - (Filter) Filter by AZ.<br>• encrypt - Array of String - Required: no - (Filter) Filter by whether a snapshot is created from an encrypted cloud disk. TRUE: yes; FALSE: no.<br>• 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:<br>• CREATE_TIME: sort by snapshot creation time<br>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:<br>• ASC: ascending<br>• 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

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

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| InvalidParameter.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.<br>security-group-id - String - (Filter) Security group ID.<br>security-group-name - String - (Filter) Security group name.<br>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"
}
}
```


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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 |
| --- | --- |
| 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

- Tencent Cloud CLI 3.0

# 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

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

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

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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. |
| 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 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.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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- 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.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

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

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

### Command Line Interface

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- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| FailedOperation.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 Go
- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| 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:<br>Log in to the console to query instance IDs.<br>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:<br>Log in to the console to query key IDs.<br>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:<br>TRUE: yes.<br>FALSE: no.<br><br>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

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

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for 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.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.<br><br>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.<br>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.<br>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.<br><br>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.<br>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

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++

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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.<br>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

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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. |
| 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<br>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

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

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

### Command Line Interface

- Tencent Cloud CLI 3.0

# 6. Error Code

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

| Error Code | Description |
| --- | --- |
| 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.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ImageLimits | ImageLimitConfig | Image quota information.<br>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
- 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. |
| 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

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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. |
| 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<br>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

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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 | 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

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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.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.<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PrivateAddressIp | String | Private IP of the bound resource<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Bandwidth | Integer | Bandwidth cap<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PayMode | String | Billing mode<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PrivateIPAddressInfo | PrivateIPAddressInfo | Private IP information of the instance.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PublicIPv6AddressInfo | PublicIPAddressInfo | Public IPv6 information of the instance.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained.<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Port | Integer | Listening port of the real server<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PrivateIpAddresses | Array of String | Private IP of the real server<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RegisteredTime | Timestamp | Real server binding time<br>Note: this field may return null, indicating that no valid values can be obtained. |
| EniId | String | Unique ENI ID<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PublicIpAddresses | Array of String | Public IP of the real server<br>Note: this field may return null, indicating that no valid values can be obtained. |
| InstanceName | String | Real server instance name<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Port | Integer | No | Bound port<br>Note: this field may return null, indicating that no valid values can be obtained. |
| InstanceId | String | No | CVM instance ID<br>Note: this field may return null, indicating that no valid values can be obtained. |
| EniIp | String | No | ENI IP<br>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.<br>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:<br>- LOCAL_BASIC: local disk<br>- CLOUD_PREMIUM: Premium Cloud Storage<br><br>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:<br>TOTAL_EIP_QUOTA: quota of EIPs in the current region;<br>DAILY_EIP_APPLY: today's number of applications in the current region;<br>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:<br>AVAILABLE: running.<br>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<br>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.<br>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.<br>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.<br>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.<br>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.<br>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.<br>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.<br>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.<br>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).<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Linux | Array of String | Supported Linux OS<br>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)<br>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` .<br>Note: this field may return null, indicating that no valid values can be obtained. |
| InstanceState | String | Instance status. Valid values:<br>PENDING: creating<br>LAUNCH_FAILED: failed to create<br>RUNNING: running<br>STOPPED: shut down<br>STARTING: starting<br>STOPPING: shutting down<br>REBOOTING: restarting<br>SHUTDOWN: to be terminated<br>TERMINATING: terminating. |
| Image | Image | Information of the image currently used by the instance.<br>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.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Internet | Internet | Network information of the instance.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| InstanceTypeConfig | InstanceTypeConfig | Configuration information of the instance.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| CreateTime | String | Instance creation time.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TagSet | Array of Tag | Instance tag information.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LatestOperation | String | Last operation on the instance.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LatestOperationState | String | Result of the last operation on the instance.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RestrictState | String | Instance business status. Valid values:<br>NORMAL: normal<br>EXPIRED: expired<br>PROTECTIVELY_ISOLATED: isolated.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| SystemDiskSize | Integer | System disk size in GB.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| DataDiskSize | Integer | Data disk size in GB.<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| PayMode | Integer | Billing mode.<br>0: postpaid.<br>1: prepaid.<br>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` .<br>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` .<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RenewFlag | Integer | Auto-Renewal flag.<br>0: no.<br>1: yes.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ExpireState | String | Expiration status.<br>NORMAL: normal.<br>WILL_EXPIRE: about to expire.<br>EXPIRED: expired.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| SystemDisk | DiskInfo | System disk information<br>Note: this field may return null, indicating that no valid values can be obtained. |
| DataDisks | Array of DiskInfo | Data disk information<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NewFlag | Integer | New instance flag<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| VirtualPrivateCloud | VirtualPrivateCloud | VPC attribute<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ISP | String | ISP field of the instance.<br>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.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NetworkInterfaceId | String | ENI ID. |
| NetworkInterfaceName | String | ENI name.<br>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<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Vgpu | Float | Number of GPU cards<br>Note: this field may return null, indicating that no valid values can be obtained. |
| GpuModelName | String | GPU model<br>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.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| InstanceNetworkInfoSet | Array of InstanceNetworkInfo | Network information of the instance.<br>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:<br>PENDING: generating<br>MIGRATING: migrating<br>DELETING: deleting<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| KeyName | String | Key pair name.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ProjectId | Integer | Project ID of the key pair.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Description | String | Key pair description.<br>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.<br>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.<br>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.<br>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.<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Protocol | String | Listener protocol<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Port | Integer | Listener port.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| HealthCheck | HealthCheck | Health check information of the listener<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| SessionExpireTime | Integer | Session persistence time<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ListenerName | String | Listener name<br>Note: this field may return null, indicating that no valid values can be obtained. |
| CreateTime | String | Listener creation time<br>Note: this field may return null, indicating that no valid values can be obtained. |
| SessionType | String | Session type of the listener<br>Note: this field may return null, indicating that no valid values can be obtained. |
| EndPort | Integer | End port of the port range<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Protocol | String | Listener protocol<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Port | Integer | Listener port<br>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<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| ListenerName | String | Listener name<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Protocol | String | Listener protocol<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Port | Integer | Listener port<br>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<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Position | Position | Location information.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LoadBalancerId | String | CLB instance ID.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LoadBalancerName | String | CLB instance name.<br>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<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Status | Integer | CLB instance status. Valid values:<br>0: creating; 1: running.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| CreateTime | Timestamp | CLB instance creation time.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| StatusTime | Timestamp | Last status change time of the CLB instance.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| VpcId | String | VPC ID.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| VipIsp | String | ISP of the CLB IP address.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| NetworkAttributes | LoadBalancerInternetAccessible | Network attribute of the CLB instance.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| SecureGroups | Array of String | Security group.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| AddressIPv6 | String | IPv6 address of a CLB instance<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| LoadBalancerName | String | CLB instance name<br>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<br>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:<br>NORMAL: normal.<br>DELETING: deleting<br>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.<br>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.<br>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:<br>PENDING: creating<br>AVAILABLE: available<br>ATTACHING: binding<br>DETACHING: unbinding<br>DELETING: deleting |
| PrivateIpAddressSet | Array of PrivateIpAddressSpecification | Private IP information.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Attachment | NetworkInterfaceAttachment | Bound CVM object.<br>Note: this field may return null, indicating that no valid values can be obtained.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| TagSet | Array of Tag | Tag key-value pairs.<br>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`.<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Message | String | Specific information<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Architecture | Array of String | Supported OS architecture<br>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<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RackId | String | Rack<br>Note: this field may return null, indicating that no valid values can be obtained. |
| SwitchId | String | Switch<br>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.<br>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.<br>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.<br>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.<br>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.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| State | String | No | IP status:<br>PENDING: generating<br>MIGRATING: migrating<br>DELETING: deleting<br>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<br>NORMAL_CVM: general CVM; |

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| Name | Type | Required | Description |
| --- | --- | --- | --- |
| GatewayId | String | No | Next hop address<br>You simply need to specify the gateway ID of a different next hop type, and the system will automatically match the next hop address<br>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:<br>USER: user route;<br>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;<br>CCN: CCN route, which will be delivered by the system by default and cannot be edited or deleted.<br>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<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| RouteSet | Array of Route | No | IPv4 routing policy set<br>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<br>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:<br>TRUE: yes<br>FALSE: no<br>Default value: TRUE.<br>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`<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Ipv6CidrBlock | String | No | IP range or IPv6 address (mutually exclusive).<br>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:<br>• true: yes;<br>• false: no. |
| IsPermanent | Boolean | Whether the snapshot is a permanent snapshot. Valid values:<br>• true: yes<br>• 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:<br>• SYSTEM_DISK: system disk<br>• DATA_DISK: data disk. |
| Encrypt | Boolean | Whether the snapshot is created from an encrypted disk. Valid values:<br>• true: yes<br>• 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:<br>• NORMAL: normal<br>• CREATING: creating<br>• ROLLBACKING: rolling back<br>• COPYING_FROM_REMOTE: cross-region replicating<br>• CHECKING_COPIED: verifying the cross-region replicated data<br>• TORECYCLE: to be repossessed. |
| DeadlineTime | String | Snapshot expiration time. |
| TimeStartShare | String | Time when snapshot sharing starts.<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Zone | String | Region |
| ZoneName | String | AZ name<br>Note: this field may return null, indicating that no valid values can be obtained. |
| InstanceCount | Integer | Number of instances<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| VpcIpv6CidrBlock | String | IPv6 CIDR block of the VPC.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Region | String | Region<br>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:<br>- LOCAL_BASIC: local disk;<br>- CLOUD_PREMIUM: Premium Cloud Storage;<br>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.<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Value | String | Yes | Tag value.<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| InstanceId | String | No | CVM instance ID<br>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.<br>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` .<br>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<br>Note: this field may return null, indicating that no valid values can be obtained. |
| Port | Integer | Port bound to the target<br>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.<br>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<br>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.<br>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<br>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<br>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.<br>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:<br>TRUE: yes<br>FALSE: no<br><br>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.<br>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<br>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<br>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:<br>CTCC: China Telecom<br>CUCC: China Unicom<br>CMCC: China Mobile<br>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

Last updated：2023-08-18 14:28:20

## 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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