

私有网络  
API 文档  
产品文档



腾讯云

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#### Data Types

#### Error Codes

# API 文档

## History

最近更新时间：2023-08-23 14:11:06

### Release 40

Release time: 2023-08-23 09:38:50

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteTrafficPackages](#)
- [GenerateVpnConnectionDefaultHealthCheckIp](#)

Modified APIs:

- [AllocateAddresses](#)
  - New input parameters:AntiDDoSPackageId, ClientToken
- [DescribeSecurityGroups](#)
  - New input parameters:OrderField, OrderDirection
- [DescribeVpcEndPointService](#)
  - New input parameters:IsListAuthorizedEndPointService
- [ModifyVpcAttribute](#)
  - New input parameters:EnableCdcPublish

Modified data structures:

- [NatGateway](#)
  - New members:NatProductVersion

### Release 39

Release time: 2023-07-11 17:04:51

Release updates:

Improvement to existing documentation.

New APIs:

- [ReplaceSecurityGroupPolicies](#)

Modified APIs:

- [CreateHaVip](#)
  - New input parameters:NetworkInterfaceId
- [DescribeVpnGatewayRoutes](#)
  - New output parameters:TotalCount

Modified data structures:

- [Address](#)
  - New members:DeadlineDate, InstanceType, AntiDDoSPackageId
  - **Modified members:** AddressId, AddressName, AddressStatus, AddressIp, InstanceId, CreatedTime
- [AddressTemplateItem](#)
  - New members:AddressTemplateId, AddressTemplateName
  - **Modified members:** From, To
- [CcnBandwidthInfo](#)
  - New members:TagSet
- [DefaultVpcSubnet](#)
  - New members:VpcName, SubnetName, CidrBlock

## Release 38

Release time: 2023-05-19 16:53:15

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeSubnetResourceDashboard](#)
- [DescribeUsedIpAddress](#)

Modified APIs:

- [AssignPrivateIpAddresses](#)
  - New input parameters:QosLevel



- [CreateAndAttachNetworkInterface](#)
  - New input parameters:QosLevel
- [CreateNetworkInterface](#)
  - New input parameters:QosLevel
- [ModifyVpnConnectionAttribute](#)
  - New input parameters:CustomerGatewayId

New data structures:

- [IpAddressStates](#)
- [ResourceStatistics](#)
- [ResourceStatisticsItem](#)

Modified data structures:

- [PrivateIpAddressSpecification](#)
  - New members:QosLevel

## Release 37

Release time: 2023-05-17 16:18:04

Release updates:

Improvement to existing documentation.

New APIs:

- [AttachSnapshotInstances](#)
- [CreateSnapshotPolicies](#)
- [DeleteSnapshotPolicies](#)
- [DescribeSgSnapshotFileContent](#)
- [DescribeSnapshotAttachedInstances](#)
- [DescribeSnapshotFiles](#)
- [DescribeSnapshotPolicies](#)
- [DetachSnapshotInstances](#)
- [DisableSnapshotPolicies](#)
- [EnableSnapshotPolicies](#)
- [ModifySnapshotPolicies](#)
- [ResumeSnapshotInstance](#)

Modified APIs:

- [DescribeVpcTaskResult](#)
  - New output parameters:Result

New data structures:

- [BackupPolicy](#)
- [BatchModifySnapshotPolicy](#)
- [SnapshotFileInfo](#)
- [SnapshotInstance](#)
- [SnapshotPolicy](#)
- [VpcTaskResultDetailInfo](#)

Modified data structures:

- [CCN](#)
  - New members:IsSecurityLock, RouteBroadcastPolicyFlag
  - **Modified members:** CcnId, CcnName, CcnDescription, InstanceCount, CreateTime, State, QosLevel, InstanceChargeType, BandwidthLimitType, TagSet, RoutePriorityFlag, RouteTableCount, RouteTableFlag
- [VpngwCcnRoutes](#)
  - New members:DestinationCidrBlock

## Release 36

Release time: 2023-01-11 14:55:11

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeTrafficPackages](#)
- [ReturnNormalAddresses](#)
- [SetVpnGatewaysRenewFlag](#)

Modified APIs:

- [AllocateAddresses](#)
  - New input parameters:Egress
- [CreateVpcEndPointService](#)

- New input parameters:ServiceType
- [ModifyBandwidthPackageAttribute](#)
  - **Deleted input parameters:** MigrateOnRefund
- [TransformAddress](#)
  - New output parameters:TaskId, AddressId

New data structures:

- [TrafficPackage](#)

Modified data structures:

- [EndPointService](#)
  - New members:ServiceType
- [NatGateway](#)
  - New members:RestrictState
- [NetworkInterface](#)
  - New members:ResourceId, QosLevel
  - **Modified members:** NetworkInterfaceId, NetworkInterfaceName, SubnetId, VpcId, MacAddress, State, PrivateIpAddressSet, Ipv6AddressSet, TagSet, EniType, Business, CdcId, AttachType

## Release 35

Release time: 2022-09-05 10:15:27

Release updates:

Improvement to existing documentation.

Modified data structures:

- [VpnConnection](#)
  - New members:DpdEnable, DpdTimeout, DpdAction, TagSet, NegotiationType

## Release 34

Release time: 2022-08-24 17:30:59

Release updates:

Improvement to existing documentation.

## New APIs:

- [CreateNetworkAclQuintupleEntries](#)
- [DeleteNetworkAclQuintupleEntries](#)
- [DescribeNetworkAclQuintupleEntries](#)
- [ModifyNetworkAclQuintupleEntries](#)

## Modified APIs:

- [CreateNetworkAcl](#)
  - New input parameters: NetworkAclType, Tags
- [ModifyNetworkAclEntries](#)
  - New input parameters: NetworkAclQuintupleSet

## New data structures:

- [NetworkAclQuintupleEntries](#)
- [NetworkAclQuintupleEntry](#)

## Modified data structures:

- [NetworkAcl](#)
  - New members: NetworkAclType, TagSet

## Release 33

Release time: 2022-07-06 11:20:17

## Release updates:

Improvement to existing documentation.

## New APIs:

- [AdjustPublicAddress](#)

## Modified APIs:

- [ModifyNetworkAclEntries](#)
  - **Modified input parameters:** NetworkAclEntrySet

## Release 32

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Release time: 2022-07-04 10:53:06

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateFlowLog](#)
  - New input parameters:CloudLogRegion
- [DescribeFlowLogs](#)
  - New input parameters:CloudLogRegion

Modified data structures:

- [FlowLog](#)
  - New members:CloudLogRegion

## Release 31

Release time: 2022-06-30 14:50:50

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeNatGatewayDirectConnectGatewayRoute](#)
- [RefreshDirectConnectGatewayRouteToNatGateway](#)

Modified APIs:

- [CreateNetworkInterface](#)
  - New input parameters:TrunkingFlag
- [DescribeNetworkInterfaceLimit](#)
  - New output parameters:SubEniQuantity, SubEniPrivateIpAddressQuantity
- [ModifyNetworkInterfaceAttribute](#)
  - New input parameters:TrunkingFlag

New data structures:

- [DirectConnectSubnet](#)
- [NatDirectConnectGatewayRoute](#)

## Release 30

Release time: 2022-06-23 15:12:29

Release updates:

Improvement to existing documentation.

New APIs:

- [AssociateNatGatewayAddress](#)
- [AssociateNetworkAclSubnets](#)
- [CreateAssistantCidr](#)
- [CreateNatGateway](#)
- [CreateNatGatewayDestinationIpPortTranslationNatRule](#)
- [CreateNatGatewaySourceIpTranslationNatRule](#)
- [CreateNetworkAcl](#)
- [DeleteAssistantCidr](#)
- [DeleteNatGateway](#)
- [DeleteNatGatewayDestinationIpPortTranslationNatRule](#)
- [DeleteNatGatewaySourceIpTranslationNatRule](#)
- [DeleteNetworkAcl](#)
- [DescribeGatewayFlowQos](#)
- [DescribeNatGatewayDestinationIpPortTranslationNatRules](#)
- [DescribeNatGatewaySourceIpTranslationNatRules](#)
- [DescribeNatGateways](#)
- [DescribeVpcTaskResult](#)
- [DisableGatewayFlowMonitor](#)
- [DisassociateNatGatewayAddress](#)
- [DisassociateNetworkAclSubnets](#)
- [EnableGatewayFlowMonitor](#)
- [ModifyAssistantCidr](#)
- [ModifyGatewayFlowQos](#)
- [ModifyNatGatewayAttribute](#)
- [ModifyNatGatewayDestinationIpPortTranslationNatRule](#)
- [ModifyNatGatewaySourceIpTranslationNatRule](#)
- [ModifyNetworkAclAttribute](#)
- [ModifyNetworkAclEntries](#)
- [NotifyRoutes](#)
- [ResetNatGatewayConnection](#)

- [WithdrawNotifyRoutes](#)

New data structures:

- [DestinationIpPortTranslationNatRule](#)
- [GatewayQos](#)
- [NatGateway](#)
- [NatGatewayAddress](#)
- [NatGatewayDestinationIpPortTranslationNatRule](#)
- [NetworkAclEntrySet](#)
- [SourceIpTranslationNatRule](#)

## Release 29

Release time: 2022-05-31 14:44:16

Release updates:

Improvement to existing documentation.

New APIs:

- [DisableFlowLogs](#)
- [EnableFlowLogs](#)

### Deleted APIs:

- [CreateNatGatewayDestinationIpPortTranslationNatRule](#)
- [CreateNatGatewaySourceIpTranslationNatRule](#)

### Deleted data structures:

- [DestinationIpPortTranslationNatRule](#)
- [SourceIpTranslationNatRule](#)

## Release 28

Release time: 2022-03-31 16:45:13

Release updates:

Improvement to existing documentation.

**Deleted APIs:**

- AssociateNatGatewayAddress
- CreateNatGateway
- DeleteNatGateway
- DeleteNatGatewayDestinationIpPortTranslationNatRule
- DeleteNatGatewaySourceIpTranslationNatRule
- DescribeNatGatewayDestinationIpPortTranslationNatRules
- DescribeNatGatewaySourceIpTranslationNatRules
- DescribeNatGateways
- DisassociateNatGatewayAddress
- InquiryPriceCreateVpnGateway
- ModifyNatGatewayAttribute
- ModifyNatGatewayDestinationIpPortTranslationNatRule
- ModifyNatGatewaySourceIpTranslationNatRule
- ResetNatGatewayConnection

**Deleted data structures:**

- NatGateway
- NatGatewayAddress
- NatGatewayDestinationIpPortTranslationNatRule

## Release 27

Release time: 2022-03-24 14:48:42

Release updates:

Improvement to existing documentation.

**Deleted APIs:**

- AssociateNetworkAclSubnets
- CreateAssistantCidr
- CreateNetworkAcl
- DeleteAssistantCidr
- DeleteNetworkAcl
- DescribeGatewayFlowQos
- DescribeVpcTaskResult
- DisableGatewayFlowMonitor



- DisassociateNetworkAclSubnets
- EnableGatewayFlowMonitor
- ModifyAssistantCidr
- ModifyGatewayFlowQos
- ModifyNetworkAclAttribute
- ModifyNetworkAclEntries
- NotifyRoutes
- WithdrawNotifyRoutes

**Deleted data structures:**

- GatewayQos
- NetworkAclEntrySet

## Modified data structures:

- [CcnBandwidthInfo](#)
  - New members:MarketId

## Release 26

Release time: 2022-01-28 10:33:36

## Release updates:

Improvement to existing documentation.

## Modified APIs:

- [CreateFlowLog](#)
  - New input parameters:StorageType, FlowLogStorage
  - **Modified input parameters:** CloudLogId

## New data structures:

- [FlowLogStorage](#)

## Modified data structures:

- [FlowLog](#)
  - New members:Enable, StorageType, FlowLogStorage

## Release 25

Release time: 2022-01-18 17:00:08

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateDirectConnectGateway](#)
  - New input parameters:HaZoneGroupId
- [CreateVpnConnection](#)
  - New input parameters:NegotiationType, DpdEnable, DpdTimeout, DpdAction
- [DescribeSecurityGroupPolicies](#)
  - New input parameters:Filters
- [ModifyVpnConnectionAttribute](#)
  - New input parameters:NegotiationType, DpdEnable, DpdTimeout, DpdAction

Modified data structures:

- [DirectConnectGateway](#)
  - New members:EnableFlowDetails, FlowDetailsUpdateTime, NewAfc, AccessNetworkType, HaZoneList
- [DirectConnectGatewayCcnRoute](#)
  - New members:Description, UpdateTime

## Release 24

Release time: 2021-11-30 11:29:06

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateAddressTemplate](#)
  - New input parameters:AddressesExtra
  - **Modified input parameters:** Addresses
- [CreateServiceTemplate](#)
  - New input parameters:ServicesExtra
  - **Modified input parameters:** Services

- [CreateVpnGateway](#)
  - New input parameters: Cdclid, MaxConnection
- [ModifyAddressTemplateAttribute](#)
  - New input parameters: AddressesExtra
- [ModifyBandwidthPackageAttribute](#)
  - New input parameters: MigrateOnRefund
- [ModifyServiceTemplateAttribute](#)
  - New input parameters: ServicesExtra
- [UnassignPrivateIpAddresses](#)
  - New input parameters: InstanceId

New data structures:

- [AddressInfo](#)
- [ServicesInfo](#)

Modified data structures:

- [AddressTemplate](#)
  - New members: AddressExtraSet
- [SecurityGroup](#)
  - New members: UpdateTime
- [ServiceTemplate](#)
  - New members: ServiceExtraSet
- [VpnGateway](#)
  - New members: Cdclid, MaxConnection

## Release 23

Release time: 2021-09-29 17:56:13

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateVpnConnection](#)
  - New input parameters: RouteType
  - **Modified input parameters:** Vpclid, SecurityPolicyDatabases

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## Release 22

Release time: 2021-09-10 17:06:59

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateFlowLog](#)
  - **Modified input parameters:** Vpclid
- [DeleteFlowLog](#)
  - **Modified input parameters:** Vpclid
- [ModifyFlowLogAttribute](#)
  - **Modified input parameters:** Vpclid

## Release 21

Release time: 2021-08-05 15:01:18

Release updates:

Improvement to existing documentation.

Modified data structures:

- [CCN](#)
  - New members:RouteTableCount, RouteTableFlag
- [CcnAttachedInstance](#)
  - New members:RouteTableId, RouteTableName
- [CcnInstance](#)
  - New members:RouteTableId

## Release 20

Release time: 2021-08-02 17:20:02

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeVpcTaskResult](#)

Modified APIs:

- [AssociateAddress](#)
  - New input parameters:EipDirectConnection

## Release 19

Release time: 2021-07-23 10:21:08

Release updates:

Improvement to existing documentation.

Modified data structures:

- [NatGateway](#)
  - New members:SourceIpTranslationNatRuleSet, IsExclusive, ExclusiveGatewayBandwidth

## Release 18

Release time: 2021-07-06 16:34:25

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateVpnGatewayRoutes](#)
- [DeleteVpnGatewayRoutes](#)
- [DescribeVpnGatewayRoutes](#)
- [ModifyVpnGatewayRoutes](#)

Modified APIs:

- [DescribeCrossBorderCompliance](#)
  - New input parameters:Offset, Limit

New data structures:

- [VpnGatewayRoute](#)

- [VpnGatewayRouteModify](#)

## Release 17

Release time: 2021-06-08 19:53:41

Release updates:

Improvement to existing documentation.

Modified APIs:

- [AttachNetworkInterface](#)
  - New input parameters:AttachType
- [CreateAndAttachNetworkInterface](#)
  - New input parameters:AttachType
- [CreateNetDetect](#)
  - **Modified input parameters:** NextHopType, NextHopDestination
- [DescribeNetworkInterfaceLimit](#)
  - New output parameters:ExtendEniQuantity, ExtendEniPrivateIpAddressQuantity
- [MigrateNetworkInterface](#)
  - New input parameters:AttachType
- [SetCcnRegionBandwidthLimits](#)
  - New input parameters:SetDefaultLimitFlag

Modified data structures:

- [Address](#)
  - New members:TagSet
- [NetworkInterface](#)
  - New members:AttachType

## Release 16

Release time: 2021-05-24 16:16:20

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateDirectConnectGateway](#)
  - New input parameters:Zone

Modified data structures:

- [DirectConnectGateway](#)
  - New members:LocalZone, Zone

## Release 15

Release time: 2021-05-12 10:19:17

Release updates:

Improvement to existing documentation.

Modified APIs:

- [AllocateAddresses](#)
  - New input parameters:AddressName

## Release 14

Release time: 2021-04-28 17:49:41

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateLocalGateway](#)
- [CreateVpcEndPoint](#)
- [CreateVpcEndPointService](#)
- [CreateVpcEndPointServiceWhiteList](#)
- [DeleteLocalGateway](#)
- [DeleteVpcEndPoint](#)
- [DeleteVpcEndPointService](#)
- [DeleteVpcEndPointServiceWhiteList](#)
- [DescribeLocalGateway](#)
- [DescribeVpcEndPoint](#)
- [DescribeVpcEndPointService](#)

- [DescribeVpcEndPointServiceWhiteList](#)
- [DisassociateVpcEndPointSecurityGroups](#)
- [EnableVpcEndPointConnect](#)
- [ModifyLocalGateway](#)
- [ModifyVpcEndPointAttribute](#)
- [ModifyVpcEndPointServiceAttribute](#)
- [ModifyVpcEndPointServiceWhiteList](#)

New data structures:

- [EndPoint](#)
- [EndPointService](#)
- [LocalGateway](#)
- [VpcEndPointServiceUser](#)

## Release 13

Release time: 2021-04-25 17:13:49

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyCcnAttachedInstancesAttribute](#)

Modified APIs:

- [CreateSubnet](#)
  - New input parameters:Cdclid
- [CreateSubnets](#)
  - New input parameters:Cdclid
- [ReplaceRoutes](#)
  - New output parameters:OldRouteSet, NewRouteSet

Modified data structures:

- [CcnAttachedInstance](#)
  - New members:Description
- [CcnInstance](#)



- New members:Description
- [NetworkInterface](#)
  - New members:Cdclid
- [Subnet](#)
  - New members:Cdclid, IsCdcSubnet

## Release 12

Release time: 2021-04-06 11:08:50

Release updates:

Improvement to existing documentation.

Modified data structures:

- [Route](#)
  - New members:CreatedTime

## Release 11

Release time: 2021-03-19 16:24:27

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeCcnRegionBandwidthLimits](#)

## Release 10

Release time: 2021-02-22 15:04:39

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateNatGatewaySourceIpTranslationNatRule](#)
- [DeleteNatGatewaySourceIpTranslationNatRule](#)

- [DescribeNatGatewaySourceIpTranslationNatRules](#)
- [ModifyNatGatewaySourceIpTranslationNatRule](#)
- [NotifyRoutes](#)
- [WithdrawNotifyRoutes](#)

New data structures:

- [CidrForCcn](#)
- [SourceIpTranslationNatRule](#)

Modified data structures:

- [NetworkInterface](#)
  - New members:Business
- [Route](#)
  - New members:PublishedToVbc
- [RouteTable](#)
  - New members:LocalCidrForCcn

## Release 9

Release time: 2021-02-05 14:28:37

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateVpnConnection](#)
  - New input parameters:EnableHealthCheck, HealthCheckLocalIp, HealthCheckRemoteIp
- [DeleteRoutes](#)
  - New output parameters:RouteSet
- [ModifyVpnConnectionAttribute](#)
  - New input parameters:EnableHealthCheck, HealthCheckLocalIp, HealthCheckRemoteIp

Modified data structures:

- [FlowLog](#)
  - New members:TagSet
- [VpnConnection](#)

- New members:EnableHealthCheck, HealthCheckLocalIp, HealthCheckRemotep, HealthCheckStatus

## Release 8

Release time: 2021-01-22 09:53:55

Release updates:

Improvement to existing documentation.

New APIs:

- [CloneSecurityGroup](#)

Modified APIs:

- [ModifyNatGatewayAttribute](#)
  - New input parameters:ModifySecurityGroup, SecurityGroupIds

Modified data structures:

- [NatGateway](#)
  - New members:SecurityGroupSet

## Release 7

Release time: 2020-12-21 16:56:49

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeIpGeolocationInfos](#)
- [InquirePriceCreateDirectConnectGateway](#)

Modified APIs:

- [CreateDirectConnectGateway](#)
  - New input parameters:ModeType
- [ModifyDirectConnectGatewayAttribute](#)
  - New input parameters:ModeType

New data structures:

- [IpField](#)
- [IpGeolocationInfo](#)

Modified data structures:

- [DirectConnectGateway](#)
  - New members:VXLANSupport, ModeType

## Release 6

Release time: 2020-12-04 12:39:24

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeIpGeolocationDatabaseUrl](#)

Modified APIs:

- [ReplaceSecurityGroupPolicy](#)
  - New input parameters:OriginalSecurityGroupPolicySet

## Release 5

Release time: 2020-10-22 16:14:54

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeBandwidthPackageBillUsage](#)

New data structures:

- [BandwidthPackageBillBandwidth](#)

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## Release 4

Release time: 2020-10-16 18:40:33

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeBandwidthPackageResources](#)

Modified APIs:

- [AllocateAddresses](#)
  - New input parameters:AddressChargePrepaid

Modified data structures:

- [AddressChargePrepaid](#)
  - New members:AutoRenewFlag
  - **Deleted members:** RenewFlag

## Release 3

Release time: 2020-09-10 17:10:34

Release updates:

Improvement to existing documentation.

New APIs:

- [AuditCrossBorderCompliance](#)
- [DescribeCrossBorderCompliance](#)

Modified APIs:

- [CreateFlowLog](#)
  - New input parameters:Tags

New data structures:

- [CrossBorderCompliance](#)

Modified data structures:

- [Address](#)
  - New members:LocalBgp, Bandwidth, InternetChargeType

## Release 2

Release time: 2020-08-13 23:24:46

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateNatGateway](#)
  - New input parameters:SubnetId

Modified data structures:

- [DirectConnectGateway](#)
  - New members:NatGatewayId

## Existing Release

Release time: 2020-07-24 14:25:22

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [AcceptAttachCcnInstances](#)
- [AddBandwidthPackageResources](#)
- [AllocateAddresses](#)
- [AssignIpv6Addresses](#)
- [AssignIpv6CidrBlock](#)
- [AssignIpv6SubnetCidrBlock](#)
- [AssignPrivateIpAddresses](#)
- [AssociateAddress](#)
- [AssociateNatGatewayAddress](#)

- 
- [AssociateNetworkAclSubnets](#)
  - [AssociateNetworkInterfaceSecurityGroups](#)
  - [AttachCcnInstances](#)
  - [AttachClassicLinkVpc](#)
  - [AttachNetworkInterface](#)
  - [CheckAssistantCidr](#)
  - [CheckNetDetectState](#)
  - [CreateAddressTemplate](#)
  - [CreateAddressTemplateGroup](#)
  - [CreateAndAttachNetworkInterface](#)
  - [CreateAssistantCidr](#)
  - [CreateBandwidthPackage](#)
  - [CreateCcn](#)
  - [CreateCustomerGateway](#)
  - [CreateDefaultVpc](#)
  - [CreateDirectConnectGateway](#)
  - [CreateDirectConnectGatewayCcnRoutes](#)
  - [CreateFlowLog](#)
  - [CreateHaVip](#)
  - [CreateNatGateway](#)
  - [CreateNatGatewayDestinationIpPortTranslationNatRule](#)
  - [CreateNetDetect](#)
  - [CreateNetworkAcl](#)
  - [CreateNetworkInterface](#)
  - [CreateRouteTable](#)
  - [CreateRoutes](#)
  - [CreateSecurityGroup](#)
  - [CreateSecurityGroupPolicies](#)
  - [CreateSecurityGroupWithPolicies](#)
  - [CreateServiceTemplate](#)
  - [CreateServiceTemplateGroup](#)
  - [CreateSubnet](#)
  - [CreateSubnets](#)
  - [CreateVpc](#)
  - [CreateVpnConnection](#)
  - [CreateVpnGateway](#)
  - [DeleteAddressTemplate](#)
  - [DeleteAddressTemplateGroup](#)

- [DeleteAssistantCidr](#)
- [DeleteBandwidthPackage](#)
- [DeleteCcn](#)
- [DeleteCustomerGateway](#)
- [DeleteDirectConnectGateway](#)
- [DeleteDirectConnectGatewayCcnRoutes](#)
- [DeleteFlowLog](#)
- [DeleteHaVip](#)
- [DeleteNatGateway](#)
- [DeleteNatGatewayDestinationIpPortTranslationNatRule](#)
- [DeleteNetDetect](#)
- [DeleteNetworkAcl](#)
- [DeleteNetworkInterface](#)
- [DeleteRouteTable](#)
- [DeleteRoutes](#)
- [DeleteSecurityGroup](#)
- [DeleteSecurityGroupPolicies](#)
- [DeleteServiceTemplate](#)
- [DeleteServiceTemplateGroup](#)
- [DeleteSubnet](#)
- [DeleteVpc](#)
- [DeleteVpnConnection](#)
- [DeleteVpnGateway](#)
- [DescribeAccountAttributes](#)
- [DescribeAddressQuota](#)
- [DescribeAddressTemplateGroups](#)
- [DescribeAddressTemplates](#)
- [DescribeAddresses](#)
- [DescribeAssistantCidr](#)
- [DescribeBandwidthPackageQuota](#)
- [DescribeBandwidthPackages](#)
- [DescribeCcnAttachedInstances](#)
- [DescribeCcnRoutes](#)
- [DescribeCcns](#)
- [DescribeClassicLinkInstances](#)
- [DescribeCustomerGatewayVendors](#)
- [DescribeCustomerGateways](#)
- [DescribeDirectConnectGatewayCcnRoutes](#)



- [DescribeDirectConnectGateways](#)
- [DescribeFlowLog](#)
- [DescribeFlowLogs](#)
- [DescribeGatewayFlowMonitorDetail](#)
- [DescribeGatewayFlowQos](#)
- [DescribeHaVips](#)
- [DescribeNatGatewayDestinationIpPortTranslationNatRules](#)
- [DescribeNatGateways](#)
- [DescribeNetDetectStates](#)
- [DescribeNetDetects](#)
- [DescribeNetworkAcls](#)
- [DescribeNetworkInterfaceLimit](#)
- [DescribeNetworkInterfaces](#)
- [DescribeRouteTables](#)
- [DescribeSecurityGroupAssociationStatistics](#)
- [DescribeSecurityGroupPolicies](#)
- [DescribeSecurityGroupReferences](#)
- [DescribeSecurityGroups](#)
- [DescribeServiceTemplateGroups](#)
- [DescribeServiceTemplates](#)
- [DescribeSubnets](#)
- [DescribeTaskResult](#)
- [DescribeVpcInstances](#)
- [DescribeVpcIpv6Addresses](#)
- [DescribeVpcPrivateIpAddresses](#)
- [DescribeVpcResourceDashboard](#)
- [DescribeVpcs](#)
- [DescribeVpnConnections](#)
- [DescribeVpnGatewayCcnRoutes](#)
- [DescribeVpnGateways](#)
- [DetachCcnInstances](#)
- [DetachClassicLinkVpc](#)
- [DetachNetworkInterface](#)
- [DisableCcnRoutes](#)
- [DisableGatewayFlowMonitor](#)
- [DisassociateAddress](#)
- [DisassociateNatGatewayAddress](#)
- [DisassociateNetworkAclSubnets](#)

- [DisassociateNetworkInterfaceSecurityGroups](#)
- [DownloadCustomerGatewayConfiguration](#)
- [EnableCcnRoutes](#)
- [EnableGatewayFlowMonitor](#)
- [GetCcnRegionBandwidthLimits](#)
- [HaVipAssociateAddressIp](#)
- [HaVipDisassociateAddressIp](#)
- [InquiryPriceCreateVpnGateway](#)
- [InquiryPriceRenewVpnGateway](#)
- [InquiryPriceResetVpnGatewayInternetMaxBandwidth](#)
- [MigrateNetworkInterface](#)
- [MigratePrivateIpAddress](#)
- [ModifyAddressAttribute](#)
- [ModifyAddressInternetChargeType](#)
- [ModifyAddressTemplateAttribute](#)
- [ModifyAddressTemplateGroupAttribute](#)
- [ModifyAddressesBandwidth](#)
- [ModifyAssistantCidr](#)
- [ModifyBandwidthPackageAttribute](#)
- [ModifyCcnAttribute](#)
- [ModifyCcnRegionBandwidthLimitsType](#)
- [ModifyCustomerGatewayAttribute](#)
- [ModifyDirectConnectGatewayAttribute](#)
- [ModifyFlowLogAttribute](#)
- [ModifyGatewayFlowQos](#)
- [ModifyHaVipAttribute](#)
- [ModifyIpv6AddressesAttribute](#)
- [ModifyNatGatewayAttribute](#)
- [ModifyNatGatewayDestinationIpPortTranslationNatRule](#)
- [ModifyNetDetect](#)
- [ModifyNetworkAclAttribute](#)
- [ModifyNetworkAclEntries](#)
- [ModifyNetworkInterfaceAttribute](#)
- [ModifyPrivateIpAddressesAttribute](#)
- [ModifyRouteTableAttribute](#)
- [ModifySecurityGroupAttribute](#)
- [ModifySecurityGroupPolicies](#)
- [ModifyServiceTemplateAttribute](#)

- [ModifyServiceTemplateGroupAttribute](#)
- [ModifySubnetAttribute](#)
- [ModifyVpcAttribute](#)
- [ModifyVpnConnectionAttribute](#)
- [ModifyVpnGatewayAttribute](#)
- [ModifyVpnGatewayCcnRoutes](#)
- [RejectAttachCcnInstances](#)
- [ReleaseAddresses](#)
- [RemoveBandwidthPackageResources](#)
- [RenewVpnGateway](#)
- [ReplaceDirectConnectGatewayCcnRoutes](#)
- [ReplaceRouteTableAssociation](#)
- [ReplaceRoutes](#)
- [ReplaceSecurityGroupPolicy](#)
- [ResetAttachCcnInstances](#)
- [ResetNatGatewayConnection](#)
- [ResetRoutes](#)
- [ResetVpnConnection](#)
- [ResetVpnGatewayInternetMaxBandwidth](#)
- [SetCcnRegionBandwidthLimits](#)
- [TransformAddress](#)
- [UnassignIpv6Addresses](#)
- [UnassignIpv6CidrBlock](#)
- [UnassignIpv6SubnetCidrBlock](#)
- [UnassignPrivateIpAddresses](#)

Existing data structures:

- [AccountAttribute](#)
- [Address](#)
- [AddressChargePrepaid](#)
- [AddressTemplate](#)
- [AddressTemplateGroup](#)
- [AddressTemplateItem](#)
- [AddressTemplateSpecification](#)
- [AlgType](#)
- [AssistantCidr](#)
- [BandwidthPackage](#)

- [CCN](#)
- [CcnAttachedInstance](#)
- [CcnBandwidthInfo](#)
- [CcnInstance](#)
- [CcnRegionBandwidthLimit](#)
- [CcnRoute](#)
- [ClassicLinkInstance](#)
- [ConflictItem](#)
- [ConflictSource](#)
- [CustomerGateway](#)
- [CustomerGatewayVendor](#)
- [CvmInstance](#)
- [DefaultVpcSubnet](#)
- [DestinationIpPortTranslationNatRule](#)
- [DirectConnectGateway](#)
- [DirectConnectGatewayCcnRoute](#)
- [Filter](#)
- [FilterObject](#)
- [FlowLog](#)
- [GatewayFlowMonitorDetail](#)
- [GatewayQos](#)
- [HaVip](#)
- [IKEOptionsSpecification](#)
- [IPSECOptionsSpecification](#)
- [InstanceChargePrepaid](#)
- [InstanceStatistic](#)
- [Ipv6Address](#)
- [Ipv6SubnetCidrBlock](#)
- [ItemPrice](#)
- [NatGateway](#)
- [NatGatewayAddress](#)
- [NatGatewayDestinationIpPortTranslationNatRule](#)
- [NetDetect](#)
- [NetDetectIpState](#)
- [NetDetectState](#)
- [NetworkAcl](#)
- [NetworkAclEntry](#)
- [NetworkAclEntrySet](#)

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- [NetworkInterface](#)
  - [NetworkInterfaceAttachment](#)
  - [Price](#)
  - [PrivateIpAddressSpecification](#)
  - [Quota](#)
  - [ReferredSecurityGroup](#)
  - [Resource](#)
  - [ResourceDashboard](#)
  - [Route](#)
  - [RouteTable](#)
  - [RouteTableAssociation](#)
  - [SecurityGroup](#)
  - [SecurityGroupAssociationStatistics](#)
  - [SecurityGroupPolicy](#)
  - [SecurityGroupPolicySet](#)
  - [SecurityPolicyDatabase](#)
  - [ServiceTemplate](#)
  - [ServiceTemplateGroup](#)
  - [ServiceTemplateSpecification](#)
  - [Subnet](#)
  - [SubnetInput](#)
  - [Tag](#)
  - [Vpc](#)
  - [VpcIpv6Address](#)
  - [VpcPrivateIpAddress](#)
  - [VpnConnection](#)
  - [VpnGateway](#)
  - [VpnGatewayQuota](#)
  - [VpngwCcnRoutes](#)

# Introduction

最近更新时间：2023-05-19 17:20:00

Virtual Private Cloud (VPC) enables you to build an independent network space in Tencent Cloud, and allows you to customize IP ranges, IP addresses, and routing policies. You can use the APIs described in API Overview to perform related operations on VPC services, such as creating VPCs or subnets. Please ensure that you have fully understood the [Overview](#) and [Operation Guide](#) before using these APIs.

## Caution

- All VPC APIs described here are of API 3.0. You can check updates of VPC features [here](#).

# API Category

最近更新时间：2023-08-23 14:11:06

## VPC APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CreateAssistantCidr</a>	Creates a secondary CIDR block	100
<a href="#">DeleteAssistantCidr</a>	Deletes a secondary CIDR block	100
<a href="#">DeleteTrafficPackages</a>	Deletes traffic packages.	20
<a href="#">DescribeClassicLinkInstances</a>	Queries the list of Classiclink	100
<a href="#">DescribeTrafficPackages</a>	Queries the list of shared traffic packages	20
<a href="#">ModifyAssistantCidr</a>	Modifies secondary CIDR blocks	100
<a href="#">AssignIpv6CidrBlock</a>	Assigns an IPv6 IP range	20
<a href="#">CreateDefaultVpc</a>	Creates a default VPC and subnets	100
<a href="#">CreateLocalGateway</a>	Creates a local gateway	20
<a href="#">DeleteLocalGateway</a>	Deletes a local gateway	20
<a href="#">DescribeAccountAttributes</a>	Queries account attributes	100
<a href="#">DescribeAssistantCidr</a>	Queries a list of secondary CIDR blocks	100
<a href="#">DescribeLocalGateway</a>	Queries local gateways	20
<a href="#">DescribeUsedIpAddress</a>	Queries IP usage of the subnet or VPC	20
<a href="#">DescribeVpcInstances</a>	Queries a list of VCM instances on VPC	20
<a href="#">DescribeVpcIpv6Addresses</a>	Queries the IPv6 list of a VPC	20

<a href="#">DescribeVpcPrivateIpAddresses</a>	Queries the private IP information of a VPC	20
<a href="#">ModifyLocalGateway</a>	Modifies a local gateway	20
<a href="#">UnassignIpv6CidrBlock</a>	Releases IPv6 IP range	20
<a href="#">AttachClassicLinkVpc</a>	Creates a Classiclink	100
<a href="#">CheckAssistantCidr</a>	Checks secondary CIDR block overlaps	100
<a href="#">DeleteVpc</a>	Deletes a VPC	100
<a href="#">DescribeVpcResourceDashboard</a>	Views VPC resources.	100
<a href="#">DetachClassicLinkVpc</a>	Deletes a Classiclink	100
<a href="#">CreateVpc</a>	Creates a VPC	100
<a href="#">DescribeVpcs</a>	Queries the VPC list	100
<a href="#">AdjustPublicAddress</a>	Changes public IPs	20
<a href="#">ModifyVpcAttribute</a>	Modifies VPC attributes	100

## Subnet APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">AssignIpv6SubnetCidrBlock</a>	Assigns an IPv6 subnet IP range	20
<a href="#">DeleteSubnet</a>	Deletes a subnet	100
<a href="#">UnassignIpv6SubnetCidrBlock</a>	Releases the IPv6 subnet IP range	20
<a href="#">CreateSubnet</a>	Creates a subnet	100
<a href="#">CreateSubnets</a>	Creates subnets in batches	20
<a href="#">DescribeSubnetResourceDashboard</a>	Queries resources associated with the subnet	20



<a href="#">DescribeSubnets</a>	Queries the subnet list	100
<a href="#">ModifySubnetAttribute</a>	Modifies subnet attributes	100

## Route Table APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">NotifyRoutes</a>	Publishes a route to CCN	20
<a href="#">WithdrawNotifyRoutes</a>	Withdraws a route from CCN	20
<a href="#">CreateRouteTable</a>	Creates a route table	100
<a href="#">DeleteRouteTable</a>	Deletes a route table	100
<a href="#">DescribeRouteTables</a>	Queries the route table list	100
<a href="#">ReplaceRouteTableAssociation</a>	Replaces the association relation of a route table	100
<a href="#">DeleteRoutes</a>	Deletes a routing policy	100
<a href="#">ModifyRouteTableAttribute</a>	Modifies route table attributes	100
<a href="#">ResetRoutes</a>	Resets the names and routing policies of route tables	100
<a href="#">CreateRoutes</a>	Creates a routing policy	100
<a href="#">ReplaceRoutes</a>	Replaces a routing policy	100

## EIP APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">DescribeAddressQuota</a>	Queries EIP quotas	10
<a href="#">DescribeAddresses</a>	Queries the EIP list	20
<a href="#">DescribeTaskResult</a>	Queries the async job execution results	20

<a href="#">AllocateAddresses</a>	Creates an EIP	10
<a href="#">AssociateAddress</a>	Binds an Elastic IP	10
<a href="#">DisassociateAddress</a>	Unbinds an EIP	10
<a href="#">ModifyAddressAttribute</a>	Modifies EIP attributes	10
<a href="#">ModifyAddressInternetChargeType</a>	Adjusts EIP billing modes	10
<a href="#">ModifyAddressesBandwidth</a>	Modifies the EIP bandwidth	20
<a href="#">ReleaseAddresses</a>	Releases the EIP	10
<a href="#">ReturnNormalAddresses</a>	Unbinds and releases public IPs	2
<a href="#">TransformAddress</a>	Switches an ordinary IP to an EIP	10

## Highly Available Virtual IP APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CreateHaVip</a>	Creates the HAVIP	20
<a href="#">DeleteHaVip</a>	Deletes an HAVIP	20
<a href="#">HaVipAssociateAddressIp</a>	Binds an EIP to an HAVIP	20
<a href="#">HaVipDisassociateAddressIp</a>	Unbinds an EIP from HAVIP	20
<a href="#">ModifyHaVipAttribute</a>	Modifies HAVIP attributes	20
<a href="#">DescribeHaVips</a>	Queries the HAVIP list	20

## ENI APIs

API Name	Feature	Frequency Limit (maximum requests per second)
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<a href="#">AssignIpv6Addresses</a>	Assigns an IPv6 address	20
<a href="#">AssignPrivateIpAddresses</a>	Applies for private IPs for an ENI	100
<a href="#">AssociateNetworkInterfaceSecurityGroups</a>	Attaches a security group to an ENI.	20
<a href="#">CreateAndAttachNetworkInterface</a>	Creates an ENI and binds it to a CVM	20
<a href="#">CreateNetworkInterface</a>	Creates an ENI	100
<a href="#">DescribeNetworkInterfaceLimit</a>	DescribeNetworkInterfaceLimit	20
<a href="#">DisassociateNetworkInterfaceSecurityGroups</a>	Detaches a security group from an ENI.	20
<a href="#">ModifyIpv6AddressesAttribute</a>	Modifies the IPv6 address attributes of an ENI	20
<a href="#">ModifyNetworkInterfaceAttribute</a>	Modifies an ENI	100
<a href="#">UnassignIpv6Addresses</a>	Releases IPv6 addresses	20
<a href="#">DeleteNetworkInterface</a>	Deletes an ENI	100
<a href="#">DescribeNetworkInterfaces</a>	Queries the ENI list	100
<a href="#">DetachNetworkInterface</a>	Unbinds an ENI from a CVM	100
<a href="#">MigrateNetworkInterface</a>	Migrates an ENI	100
<a href="#">MigratePrivateIpAddress</a>	Migrates private IPs of an ENI	100
<a href="#">ModifyPrivateIpAddressesAttribute</a>	Modifies the private IP information of an ENI	100
<a href="#">UnassignPrivateIpAddresses</a>	Returns the private IPs of an ENI	100
<a href="#">AttachNetworkInterface</a>	Binds an ENI to a CVM	100

## IP Location APIs

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API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">DescribeGeolocationDatabaseUrl</a>	Obtains the download link of an IP location database	20
<a href="#">DescribeGeolocationInfos</a>	Queries IP location	20

## Bandwidth Package APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">DescribeBandwidthPackageBillUsage</a>	Queries the current usage of a pay-as-you-go bandwidth package.	20
<a href="#">DescribeBandwidthPackageQuota</a>	Queries the bandwidth package quota	20
<a href="#">DescribeBandwidthPackageResources</a>	Queries resources in a bandwidth package	10
<a href="#">DescribeBandwidthPackages</a>	Queries bandwidth package resources	20
<a href="#">ModifyBandwidthPackageAttribute</a>	Modifies the attributes of a bandwidth package	20
<a href="#">RemoveBandwidthPackageResources</a>	Deletes a bandwidth package resource	20
<a href="#">AddBandwidthPackageResources</a>	Adds one or more resources to a bandwidth package	20
<a href="#">CreateBandwidthPackage</a>	Creates a bandwidth package	20
<a href="#">DeleteBandwidthPackage</a>	Deletes a bandwidth package	20

## NAT Gateway APIs

API Name	Feature	Frequency Limit (maximum
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		requests per second)
<a href="#">CreateNatGatewayDestinationIpPortTranslationNatRule</a>	Creates the port forwarding rule of a NAT gateway	100
<a href="#">CreateNatGatewaySourceIpTranslationNatRule</a>	Creates SNAT rules for a NAT gateway	20
<a href="#">DeleteNatGateway</a>	Deletes a NAT gateway	100
<a href="#">DeleteNatGatewayDestinationIpPortTranslationNatRule</a>	Deletes the port forwarding rule of a NAT gateway	100
<a href="#">DeleteNatGatewaySourceIpTranslationNatRule</a>	Deletes a SNAT forwarding rule of a NAT Gateway	20
<a href="#">DescribeNatGatewayDestinationIpPortTranslationNatRules</a>	Queries the port forwarding rule of a NAT gateway	100
<a href="#">DescribeNatGatewayDirectConnectGatewayRoute</a>	Queries the routes between a NAT gateway and Direct Connect	20
<a href="#">DescribeNatGatewaySourceIpTranslationNatRules</a>	Queries a NAT gateway's SNAT forwarding rules	20
<a href="#">DescribeNatGateways</a>	Queries NAT gateways	100
<a href="#">DisassociateNatGatewayAddress</a>	Unbinds an EIP from a NAT gateway	100
<a href="#">ModifyNatGatewayDestinationIpPortTranslationNatRule</a>	Modifies the port forwarding rule of a NAT gateway	100
<a href="#">ModifyNatGatewaySourceIpTranslationNatRule</a>	Modifies a NAT gateway's SNAT forwarding rules	20
<a href="#">RefreshDirectConnectGatewayRouteToNatGateway</a>	Refreshes the routes of a NAT gateway associated with Direct Connect	20
<a href="#">ResetNatGatewayConnection</a>	Adjusts the concurrent	20

	connection cap for the NAT gateway	
<a href="#">AssociateNatGatewayAddress</a>	Binds an EIP to a NAT gateway	100
<a href="#">CreateNatGateway</a>	Creates a NAT gateway	100
<a href="#">ModifyNatGatewayAttribute</a>	Modifies the attributes of a NAT gateway	100

## VPN Gateway APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">RenewVpnGateway</a>	Renews a VPN gateway	100
<a href="#">ModifyVpnGatewayRoutes</a>	Modifies the route status of a VPN gateway	20
<a href="#">CreateVpnGatewayRoutes</a>	Creates routes of a VPN gateway	20
<a href="#">DeleteVpnGatewayRoutes</a>	Deletes routes of a VPN gateway	20
<a href="#">DescribeCustomerGateways</a>	Queries customer gateways	100
<a href="#">DescribeVpnConnections</a>	Queries the VPN tunnel list	100
<a href="#">DescribeVpnGatewayCcnRoutes</a>	Querying VPN gateway-based CCN routes	20
<a href="#">DescribeVpnGatewayRoutes</a>	Queries routes of a VPN gateway	20
<a href="#">DownloadCustomerGatewayConfiguration</a>	Downloads a VPN tunnel configuration	100
<a href="#">ModifyVpnGatewayCcnRoutes</a>	Modifying VPN gateway-based CCN routes	20
<a href="#">SetVpnGatewaysRenewFlag</a>	Specifies whether to enable auto-renewal for the VPN	20

	gateway	
<a href="#">CreateCustomerGateway</a>	Creates a customer gateway	100
<a href="#">CreateVpnConnection</a>	Creates a VPN tunnel	100
<a href="#">CreateVpnGateway</a>	Creates a VPN gateway	100
<a href="#">DeleteCustomerGateway</a>	Deletes a customer gateway	100
<a href="#">DeleteVpnConnection</a>	Deletes VPN tunnels	100
<a href="#">DeleteVpnGateway</a>	Deletes a VPN gateway	100
<a href="#">DescribeCustomerGatewayVendors</a>	Queries the information of supported customer gateway vendors	100
<a href="#">DescribeVpnGateways</a>	Queries VPN gateways	300
<a href="#">GenerateVpnConnectionDefaultHealthCheckIp</a>	Obtains a pair of VPN tunnel health check addresses	20
<a href="#">InquiryPriceRenewVpnGateway</a>	Queries the price for VPN gateway renewal	100
<a href="#">InquiryPriceResetVpnGatewayInternetMaxBandwidth</a>	Queries the price for adjusting the bandwidth cap of a VPN gateway	100
<a href="#">ModifyCustomerGatewayAttribute</a>	Modifies a customer gateway	100
<a href="#">ModifyVpnConnectionAttribute</a>	Modifies the VPN tunnel	100
<a href="#">ModifyVpnGatewayAttribute</a>	Modifies VPN gateway attributes	100
<a href="#">ResetVpnConnection</a>	Resets a VPN tunnel	100
<a href="#">ResetVpnGatewayInternetMaxBandwidth</a>	Adjusts the bandwidth cap of a VPN gateway	100

## Direct Connect Gateway APIs

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

		second)
<a href="#">CreateDirectConnectGateway</a>	Creates a direct connect gateway	20
<a href="#">CreateDirectConnectGatewayCcnRoutes</a>	Creates the CCN route of a Direct Connect gateway	20
<a href="#">DeleteDirectConnectGateway</a>	Deletes a direct connect gateway	20
<a href="#">DeleteDirectConnectGatewayCcnRoutes</a>	Deletes CCN routes of a Direct Connect gateway	20
<a href="#">DescribeDirectConnectGatewayCcnRoutes</a>	Queries the CCN routes of a Direct Connect gateway	20
<a href="#">DescribeDirectConnectGateways</a>	Queries direct connect gateways	20
<a href="#">InquirePriceCreateDirectConnectGateway</a>	Queries the price of creating a direct connect gateway	20
<a href="#">ModifyDirectConnectGatewayAttribute</a>	Modifies the attributes of a direct connect gateway	20
<a href="#">ReplaceDirectConnectGatewayCcnRoutes</a>	Replaces the CCN routes of a Direct Connect gateway	20
<a href="#">AssociateDirectConnectGatewayNatGateway</a>	Binds a direct connect gateway to a NAT Gateway	20
<a href="#">DisassociateDirectConnectGatewayNatGateway</a>	Unbinds a direct connect gateway from a NAT Gateway	20

## Cloud Connect Network APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">AcceptAttachCcnInstances</a>	Accepts instance association to a CCN	20
<a href="#">DescribeCrossBorderCompliance</a>	Queries a compliance review request	20



<a href="#">DetachCcnInstances</a>	Unbinds instances from a CCN	100
<a href="#">EnableCcnRoutes</a>	Enables CCN routes	100
<a href="#">ModifyCcnAttachedInstancesAttribute</a>	Modifies CCN-associated instance attributes	20
<a href="#">ModifyCcnAttribute</a>	Modifies CCN attributes	100
<a href="#">RejectAttachCcnInstances</a>	Rejects instance association	20
<a href="#">ResetAttachCcnInstances</a>	Re-applies for the instance association	20
<a href="#">CreateCcn</a>	Creates a CCN	100
<a href="#">DeleteCcn</a>	Deletes a CCN	100
<a href="#">DisableCcnRoutes</a>	Disables CCN routes	100
<a href="#">SetCcnRegionBandwidthLimits</a>	Sets the outbound bandwidth cap of each CCN region	100
<a href="#">AttachCcnInstances</a>	Associates an instance with a CCN	100
<a href="#">DescribeCcnRegionBandwidthLimits</a>	Queries the outbound bandwidth caps of all regions connected with the specified CCN instance	100
<a href="#">AuditCrossBorderCompliance</a>	Performs a compliance audit	20
<a href="#">DescribeCcnAttachedInstances</a>	Queries the list of instances associated with a CCN	100
<a href="#">DescribeCcnRoutes</a>	Queries the CCN routing policy	100
<a href="#">DescribeCcns</a>	Queries the CCN list	100
<a href="#">GetCcnRegionBandwidthLimits</a>	Queries the inter-region bandwidth limits of a CCN	20
<a href="#">ModifyCcnRegionBandwidthLimitsType</a>	Modifies the bandwidth limit policy of a postpaid instance	20

## Security Group APIs

API Name	Feature	Frequency Limit
----------	---------	-----------------

		(maximum requests per second)
<a href="#">DescribeSecurityGroupReferences</a>	Queries referred security groups	20
<a href="#">CloneSecurityGroup</a>	Clones an security group	20
<a href="#">DeleteSecurityGroup</a>	Deletes a security group	100
<a href="#">DeleteSecurityGroupPolicies</a>	Deletes security group policies	100
<a href="#">DescribeSecurityGroupAssociationStatistics</a>	Queries statistics on the instances associated with a security group	100
<a href="#">DescribeSecurityGroupPolicies</a>	Queries security group policies	100
<a href="#">DescribeSecurityGroups</a>	Queries security groups	100
<a href="#">ModifySecurityGroupAttribute</a>	Modifies security group attributes	100
<a href="#">ModifySecurityGroupPolicies</a>	Modifies the outbound and inbound policies of a security group	100
<a href="#">ReplaceSecurityGroupPolicies</a>	Batch modifies security group policies	20
<a href="#">ReplaceSecurityGroupPolicy</a>	Replaces a single security group rule	100
<a href="#">CreateSecurityGroupPolicies</a>	Adds policies to a security group	100
<a href="#">CreateSecurityGroupWithPolicies</a>	Creates security groups and policies	100
<a href="#">CreateSecurityGroup</a>	Creates a security group	100

## Network ACL APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">AssociateNetworkAclSubnets</a>	Associates a network ACL with subnets	20
<a href="#">CreateNetworkAclQuintupleEntries</a>	Adds rules of the network ACL	20

	quintuple	
<a href="#">DeleteNetworkAcl</a>	Deletes a network ACL	20
<a href="#">DeleteNetworkAclQuintupleEntries</a>	Deletes specified rules of the network ACL quintuple.	20
<a href="#">DescribeNetworkAclQuintupleEntries</a>	Queries the list of the network ACL quintuple entries	20
<a href="#">DisassociateNetworkAclSubnets</a>	Disassociates a network ACL from a subnet	20
<a href="#">ModifyNetworkAclAttribute</a>	Modifies network ACL attributes	20
<a href="#">ModifyNetworkAclQuintupleEntries</a>	Updates the network ACL quintuple rules incrementally	20
<a href="#">DescribeNetworkAcls</a>	Queries a list of network ACLs	20
<a href="#">ModifyNetworkAclEntries</a>	Modifies network ACL rules	20
<a href="#">CreateNetworkAcl</a>	Creates a network ACL	20

## Network Parameter Template APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CreateAddressTemplate</a>	Creates an IP address template	100
<a href="#">CreateAddressTemplateGroup</a>	Creates an IP address template group	100
<a href="#">DeleteAddressTemplate</a>	Deletes an IP address template	100
<a href="#">DeleteAddressTemplateGroup</a>	Deletes an IP address template group	100
<a href="#">DeleteServiceTemplate</a>	Deletes a protocol port template	100
<a href="#">DeleteServiceTemplateGroup</a>	Deletes a protocol port template group	100

<a href="#">DescribeAddressTemplateGroups</a>	Queries an IP address template group	100
<a href="#">DescribeAddressTemplates</a>	Queries an IP address template	100
<a href="#">DescribeServiceTemplateGroups</a>	Queries a protocol port template group	100
<a href="#">DescribeServiceTemplates</a>	Queries a protocol port template	100
<a href="#">ModifyAddressTemplateAttribute</a>	Modifies an IP address template	100
<a href="#">ModifyAddressTemplateGroupAttribute</a>	Modifies an IP address template group	100
<a href="#">ModifyServiceTemplateGroupAttribute</a>	Modifies a protocol port template group	100
<a href="#">CreateServiceTemplate</a>	Creates a protocol port template	100
<a href="#">CreateServiceTemplateGroup</a>	Creates a protocol port template group	100
<a href="#">ModifyServiceTemplateAttribute</a>	Modifies a protocol port template	100

## Network Detection-Related APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">CheckNetDetectState</a>	CheckNetDetectState	100
<a href="#">CreateNetDetect</a>	CreateNetDetect	100
<a href="#">DeleteNetDetect</a>	DeleteNetDetect	100
<a href="#">ModifyNetDetect</a>	ModifyNetDetect	100
<a href="#">DescribeNetDetects</a>	DescribeNetDetects	100
<a href="#">DescribeNetDetectStates</a>	DescribeNetDetectStates	100

## Flow Log APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">DeleteFlowLog</a>	Deletes a flow log	20
<a href="#">DisableFlowLogs</a>	Disables flow log	20
<a href="#">EnableFlowLogs</a>	Enables flow log	20
<a href="#">ModifyFlowLogAttribute</a>	Modifies the attributes of a flow log	20
<a href="#">DescribeFlowLog</a>	Queries information of a flow log	20
<a href="#">DescribeFlowLogs</a>	Queries the list of flow logs	20
<a href="#">CreateFlowLog</a>	Creates a flow log	20

## Gateway Traffic Monitor APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">DescribeGatewayFlowQos</a>	Queries the inbound IP bandwidth limit of a gateway.	20
<a href="#">DisableGatewayFlowMonitor</a>	Disables gateway traffic monitor	20
<a href="#">EnableGatewayFlowMonitor</a>	Enables gateway traffic monitor	20
<a href="#">ModifyGatewayFlowQos</a>	Adjusts the bandwidth limit of a gateway	20
<a href="#">DescribeGatewayFlowMonitorDetail</a>	Queries the monitoring details of a gateway	30

## Private Link APIs

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

		second)
<a href="#">CreateVpcEndPoint</a>	Creates an endpoint	20
<a href="#">CreateVpcEndPointService</a>	Creates an endpoint service	20
<a href="#">CreateVpcEndPointServiceWhiteList</a>	Creates the endpoint service allowlist	20
<a href="#">DeleteVpcEndPoint</a>	Deletes an endpoint	20
<a href="#">DeleteVpcEndPointService</a>	Deletes an endpoint service	20
<a href="#">DeleteVpcEndPointServiceWhiteList</a>	Deletes the endpoint service allowlist	20
<a href="#">DescribeVpcEndPointServiceWhiteList</a>	Queries the endpoint service allowlist	20
<a href="#">DisassociateVpcEndPointSecurityGroups</a>	Unbinds an endpoint from a security group	20
<a href="#">ModifyVpcEndPointAttribute</a>	Modifies endpoint attributes	20
<a href="#">ModifyVpcEndPointServiceWhiteList</a>	Modifies the attributes of the endpoint service allowlist	20
<a href="#">ModifyVpcEndPointServiceAttribute</a>	Modifies endpoint service attributes	20
<a href="#">DescribeVpcEndPoint</a>	Queries the endpoint list	20
<a href="#">EnableVpcEndPointConnect</a>	Determines whether to accept the request of connecting with an endpoint	20
<a href="#">DescribeVpcEndPointService</a>	Queries the endpoint service list	20

## Snapshot Policy APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">AttachSnapshotInstances</a>	Associates a snapshot policy with specified instances	20
<a href="#">CreateSnapshotPolicies</a>	Creates snapshot policies	20
<a href="#">DeleteSnapshotPolicies</a>	Deletes snapshot policies	20

<a href="#">DescribeSgSnapshotFileContent</a>	Querying contents of snapshot files	20
<a href="#">DescribeSnapshotAttachedInstances</a>	Queries instances associated with a snapshot policy	20
<a href="#">DescribeSnapshotPolicies</a>	Queries snapshot policies	20
<a href="#">DetachSnapshotInstances</a>	Disassociates a snapshot policy with instances	20
<a href="#">DisableSnapshotPolicies</a>	Disables specified snapshot policies	20
<a href="#">EnableSnapshotPolicies</a>	Enables specified snapshot policies	20
<a href="#">ModifySnapshotPolicies</a>	Modifies specified snapshot policies	20
<a href="#">ResumeSnapshotInstance</a>	Restores security group policies	20
<a href="#">DescribeSnapshotFiles</a>	Query snapshot files	20

## Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
<a href="#">DescribeVpcTaskResult</a>	Queries VPC async task execution results	20

# Making API Requests

## Request Structure

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### 1. Service Address

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

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

Tencent Cloud currently supports the following regions:

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



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

## 2. Communications Protocol

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

## 3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

## 4. Character Encoding

Only UTF-8 encoding is used.

# Common Params

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

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

## Common parameters for Signature Algorithm v3

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

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

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

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

Example of an HTTP GET request structure:

```

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

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

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

```

https://cvm.tencentcloudapi.com/

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

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

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

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

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

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

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

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

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

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

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

```
--58731222010402
```

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

```
0
```

```
--58731222010402
```

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

```
10
```

```
--58731222010402--
```

## Common parameters for Signature Algorithm v1

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

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

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

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

Example of an HTTP GET request structure:

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

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

Example of an HTTP POST request structure:

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

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

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

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

# Signature

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

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

## 1. Applying for Security Credentials

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

Security credentials consist of SecretId and SecretKey:

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

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

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

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

## 2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

## 2.1. Sorting Parameters

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

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



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

## 2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

## 2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

## 2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

### 3. Encoding a Signature String

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

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

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

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

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

### 4. Signature Failure

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

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

## 5. Signature Demo

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

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

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

The final output URL might be:

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

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

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

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

## Java

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

```

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

```

## Python

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

```

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

```

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

## Golang

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

```

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

```

## PHP

```

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

```

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

## Ruby

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



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

## DotNet

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

```

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

```

## NodeJS

```

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

```

```

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

```

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

# Signature v3

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

## Applying for Security Credentials

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

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

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

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

## Using the Resources for Developers

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

## TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

## 1. Concatenating the CanonicalRequest String

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

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

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

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

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

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

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

**POST**

/

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

**host:**cvm.tencentcloudapi.com

**content-type;host**

`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

## 2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

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



HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))) The calculation result in this example is 2815843035062ffffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
------------------------	--

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
2815843035062ffffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

### 3. Calculating the Signature

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

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

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

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

2. Calculate the signature with the following pseudocode:

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

#### 4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

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

The following example shows a finished authorization header:

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

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

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

## 5. Signature Demo

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

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

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

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

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

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

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

## Java

```

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

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

```

## Python

```

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

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

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

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

```

```

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

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

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

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

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

## Golang

```

package main

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

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

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

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

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



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

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

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

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

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

## PHP

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

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

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

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

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

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

## Ruby

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

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

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

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

```

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

puts canonical_request

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

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

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

puts 'curl -X POST ' + endpoint \

```

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

## DotNet

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## NodeJS

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

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

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

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

function main(){

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

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

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

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

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

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



```

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

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

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

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

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

## C++

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

using namespace std;

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

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

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

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

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

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

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

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

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

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

```

return output;
}

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

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

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

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

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

```

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

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

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

## Signature Failure

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

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

# Responses

最近更新时间：2020-03-06 20:27:49

## Response for Successful Requests

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

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

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

## Response for Failed Requests

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

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

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

## Common Error Codes

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

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

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



# VPC APIs

## DeleteTrafficPackages

最近更新时间：2023-08-23 14:11:11

### 1. API Description

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

This API is used to delete traffic packages. Note that only non-valid traffic packages can be deleted.

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

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteTrafficPackages.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
TrafficPackageIds.N	Yes	Array of String	The unique ID array of traffic packages to delete

### 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 traffic packages

This example shows you how to delete traffic packages.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteTrafficPackages
&TrafficPackageIds.0=tfp-c9gcdb0t
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "5957a632-12b2-4051-b103-ecd77145ecbd"
  }
}
```

## 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
InvalidParameterValue.TrafficPackageIdMalformed	The traffic package ID is invalid.
InvalidParameterValue.TrafficPackageNotFound	This traffic package is not found.
InvalidParameterValue.TrafficPackageNotSupported	The specified traffic package does not support this operation.

# DescribeUsedIpAddress

最近更新时间：2023-08-23 14:11:11

## 1. API Description

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

This API is used to query the IP usage of a subnet or VPC.

If the IP is occupied, the resource type and ID associated with the are is returned. If the IP is not used, it returns null.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeUsedIpAddress.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID.
SubnetId	No	String	Subnet instance ID
IpAddresses.N	No	Array of String	List of IPs to be queried. The IPs must be within the VPC or subnet. Up to 100 IPs can be queried at a time.
Offset	No	Integer	The offset. Default value: 0

Limit	No	Integer	The number of returned results. Default value: 20. Maximum value: 100.
-------	----	---------	--

### 3. Output Parameters

Parameter Name	Type	Description
IpAddressStates	Array of <a href="#">IpAddressStates</a>	Information of resources bound with the queried IPs Note: This parameter may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Number of taken IPs Note: This parameter 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 IP usage of a subnet

This example shows you how to query usage of IPs of a subnet.

#### Input Example

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

{
  "VpcId": "vpc-bx0vq623",
  "SubnetId": "subnet-dl3wd0vq",
  "IpAddresses": [
    "10.0.0.1",
    "10.0.0.2"
  ]
}
```

## Output Example

```
{
  "Response": {
    "IpAddressStates": [
      {
        "VpcId": "vpc-bx0vq623",
        "SubnetId": "subnet-dl3wd0vq",
        "IpAddress": "10.0.0.1",
        "ResourceType": "ENI",
        "ResourceId": "eni-bjekqff1"
      },
      {
        "VpcId": "vpc-bx0vq623",
        "SubnetId": "subnet-dl3wd0vq",
        "IpAddress": "10.0.0.2",
        "ResourceType": "ENI",
        "ResourceId": "eni-bjekqff2"
      }
    ],
    "TotalCount": 2,
    "RequestId": "2aaa54f5-2809-4b95-b3a5-13ce72d05759"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.ParameterMismatch	Invalid parameter format

# DescribeAccountAttributes

最近更新时间：2023-07-11 17:48:27

## 1. API Description

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

This API (DescribeAccountAttributes) is used to query your account attributes.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeAccountAttributes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.

## 3. Output Parameters

Parameter Name	Type	Description
AccountAttributeSet	Array of <a href="#">AccountAttribute</a>	User account attribute object
RequestId	String	The unique request ID, which is returned for each request.



RequestId is required for locating a problem.

## 4. Example

### Example1 Querying the network attributes of an account

This example shows you how to query the network attributes of an account that only supports VPC.

#### Input Example

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

#### Output Example

```
{
  "Response": {
    "AccountAttributeSet": [
      {
        "AttributeName": "supported-platforms",
        "AttributeValues": [
          "VPC"
        ]
      }
    ],
    "RequestId": "68eb9302-af1c-4d6b-b000-1c7851bef46a"
  }
}
```

## 5. Developer Resources

### SDK

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

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.ModuleError	Internal module error

# CreateDefaultVpc

最近更新时间：2023-08-23 14:11:12

## 1. API Description

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

This API is used to create a VPC with default settings.

To create a VPC with custom settings, such as VPC name, IP range, subnet IP range, and subnet availability zone, use `CreateVpc` instead.

This API may not create a default VPC. It depends on the network attributes ( `DescribeAccountAttributes` ) of your account.

- If both basic network and VPC are supported, the returned `VpcId` is 0.
- If only VPC is supported, the default VPC information is returned.

You can also use the `Force` parameter to forcibly return a default VPC.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateDefaultVpc.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.

Zone	No	String	The ID of the availability zone in which the subnet resides. This parameter can be obtained through the <code>DescribeZones</code> API, such as <code>ap-guangzhou-1</code> . If it's not specified, a random availability zone will be used.
Force	No	Boolean	Whether to forcibly return a default VPC

### 3. Output Parameters

Parameter Name	Type	Description
Vpc	<a href="#">DefaultVpcSubnet</a>	Default VPC and subnet IDs
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a VPC with default settings

This example shows you how to create a VPC with default settings.

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateDefaultVpc
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "Vpc": {
      "VpcId": "vpc-pin7sxcd",
      "SubnetId": "subnet-ixzf2m42"
    },
    "RequestId": "a2353d77-5c08-49c4-a28a-632a8af5e294"
  }
}
```

#### Example2 Creating a default VPC without passing in the `Force` parameter

In this example, the account supports both the classic network and VPC. When `Force` is not passed in, the returned `VpcId` is `0`, indicating that the default VPC is not created.

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateDefaultVpc
&<common request parameters>
```

### Output Example

```
{
  "Response": {
    "Vpc": {
      "VpcId": "0",
      "SubnetId": "0"
    },
    "RequestId": "c52dda11-9e53-440f-b034-6292f2144dd0"
  }
}
```

### Example3 Creating a default VPC and ignoring the account network attribute

This example shows you how to create a default VPC without considering the network attribute of the account.

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateDefaultVpc
&Force=true
&<common request parameters>
```

### Output Example

```
{
  "Response": {
    "Vpc": {
      "VpcId": "vpc-8mpwlbdv",
      "SubnetId": "subnet-19emqwnw"
    },
    "RequestId": "91348b0a-6846-49ff-822b-a21eef848c9f"
  }
}
```

## 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
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.SubnetOverlap	The CIDR block overlaps with another subnet within the same VPC.
LimitExceeded	Quota limit is reached.
ResourceInsufficient.CidrBlock	The IP range resources are insufficient.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.RecordExists	This record already exists.

# CreateVpc

最近更新时间：2023-08-23 14:11:12

## 1. API Description

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

This API is used to create a VPC instance.

- The subnet mask of the smallest IP address range that can be created is 28 (16 IP addresses), that of the largest IP address ranges 10.0.0.0/12 and 172.16.0.0/12 is 12 (1,048,576 IP addresses), and that of the largest IP address range 192.168.0.0/16 is 16 (65,536 IP addresses). For more information on how to plan VPC IP ranges, see [Network Planning](#).
- The number of VPC instances that can be created in a region is limited. For more information, see [VPC Use Limits](#). To request more resources, [submit a ticket](#).
- You can bind tags when creating a VPC instance. The tag list in the response indicates the tags that have been successfully added.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateVpc.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcName	Yes	String	The VPC name. The maximum length is 60 bytes.

CidrBlock	Yes	String	VPC CIDR block, which must fall within the following three private network IP ranges: 10.0.0.0/12, 172.16.0.0/12, and 192.168.0.0/16.
EnableMulticast	No	String	Whether multicast is enabled. <code>true</code> : Enabled. <code>false</code> : Not enabled.
DnsServers.N	No	Array of String	DNS address. A maximum of 4 addresses is supported.
DomainName	No	String	Domain name of DHCP
Tags.N	No	Array of Tag	Bound tags, such as [{"Key": "city", "Value": "shanghai"}]

### 3. Output Parameters

Parameter Name	Type	Description
Vpc	Vpc	The 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 a VPC

This example shows you how to create a VPC.

#### Input Example

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

{
  "VpcName": "TestVPC",
```



```

"CidrBlock": "10.8.0.0/16",
"Tags": [
{
"Value": "shanghai",
"Key": "city"
}
]
}
    
```

## Output Example

```

{
"Response": {
"RequestId": "0a74f7fe-0cfe-4bc7-b1d2-6575168d7a44",
"Vpc": {
"VpcId": "vpc-2ln96dly",
"DomainName": "TEST",
"Ipv6CidrBlock": "2001::85b:3c51:f5ff:ffdb",
"EnableDhcp": true,
"DnsServerSet": [
"183.60.82.98",
"183.60.83.1"
],
"EnableMulticast": false,
"VpcName": "TEST",
"AssistantCidrSet": [
{
"SubnetSet": [
{
"NetworkAclId": "acl-n8w3ppae",
"RouteTableId": "rtb-57ruphgv",
"VpcId": "vpc-lrrlomg7",
"EnableBroadcast": true,
"Zone": "ap-guangzhou-1",
"IsCdcSubnet": 0,
"Ipv6CidrBlock": "2001::85b:3c51:f5ff:ffda",
"CdcId": "cluster-gbo27yc4",
"AvailableIpAddressCount": 1,
"IsRemoteVpcSnat": true,
"SubnetName": "TEST",
"TotalIpAddressCount": 1,
"CreatedTime": "2020-09-18 19:46:07",
"SubnetId": "subnet-p9oa3yo7",
"CidrBlock": "10.0.0.0/16",
"TagSet": [
{
    
```

```
"Value": "TEST",
"Key": "TEST"
},
],
"IsDefault": true
},
],
"VpcId": "vpc-lrrlomg7",
"CidrBlock": "10.0.0.0/16",
"AssistantType": 0
},
],
"TagSet": [
{
"Value": "TEST",
"Key": "TEST"
}
],
"DhcpOptionsId": "dopt-058pu85z",
"CreatedTime": "0000-00-00 00:00:00",
"CidrBlock": "10.0.0.0/16",
"IsDefault": false
}
}
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.SubnetOverlap	The CIDR block overlaps with another subnet within the same VPC.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.

LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
MissingParameter	Missing parameter.
ResourceInsufficient	Insufficient resources.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.
UnsupportedOperation.EnableMulticast	Multi-cast is not available in the current region.
UnsupportedOperation.RecordExists	This record already exists.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# ModifyVpcAttribute

最近更新时间：2023-08-23 14:11:10

## 1. API Description

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

This API (ModifyVpcAttribute) is used to modify VPC attributes.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyVpcAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	Security group can be named freely, but cannot exceed 60 characters.
VpcName	No	String	VPC can be named freely, but the maximum length is 60 characters.
EnableMulticast	No	String	Whether multicast is enabled. <code>true</code> : Enabled. <code>false</code> : Off.
DnsServers.N	No	Array of String	DNS address. A maximum of 4 addresses is supported. The first one is primary server by default, and the rest are secondary servers.

DomainName	No	String	Domain name
EnableCdcPublish	No	Boolean	Whether to publish the CDC subnet to CCN. <code>true</code> : Publish; <code>false</code> : Do not publish

### 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 attributes

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyVpcAttribute
&VpcName=MyTest
&VpcId=vpc-m7sr81gh
&EnableMulticast=true
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "38b1a253-02b7-43d7-8524-7e07432ae31a"
  }
}
```

### 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.EnableMulticast	Multi-cast is not available in the current region.
UnsupportedOperation.NotSupportedUpdateCcnRoutePublish	The current CCN instance does not support publishing update routes.

# DescribeVpcs

最近更新时间：2023-08-23 14:20:57

## 1. API Description

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

This API (DescribeVpcs) is used to query the VPC list.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpcs.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcIds.N	No	Array of String	The VPC instance ID, such as <code>vpc-f4916u0z</code> . Each request supports a maximum of 100 instances. <code>VpcIds</code> and <code>Filters</code> cannot be specified at the same time.



Parameter Name	Required	Type	Description
Filters.N	No	Array of Filter	<p>Filter condition. <code>VpcIds</code> and <code>Filters</code> cannot be specified at the same time.</p> <p>Valid filters include:</p> <ul style="list-style-type: none"> <li><code>vpc-name</code> : VPC instance name, which supports fuzzy search.</li> <li><code>is-default</code> : Indicates whether it is the default VPC</li> <li><code>vpc-id</code> : VPC instance ID, such as <code>vpc-f4916u0z</code></li> <li><code>cidr-block</code> : VPC CIDR block</li> <li><code>tag-key</code> : (Optional) tag key</li> <li><code>tag:tag-key</code> : (Optional) tag key-value pair. Replace the <code>tag-key</code> with a specified tag value. For its usage, refer to Example 2.</li> </ul> <p><b>Note:</b> If one filter has multiple values, the logical relationship between these values is <code>OR</code> . The logical relationship between filters is <code>AND</code> .</p>
Offset	No	String	Offset. Default value: 0.
Limit	No	String	Number of returned results. Default value: 20. Maximum value: 100.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of objects meeting the condition.
VpcSet	Array of Vpc	The VPC object.
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 VPCs

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

#### Input Example

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

```
{
  "Limit": "2",
  "Filters": [
    {
      "Values": [
        "192.168.0.0",
        "10.0.0.0"
      ],
      "Name": "cidr-block"
    },
    {
      "Values": [
        "false"
      ],
      "Name": "is-default"
    }
  ],
  "Offset": "0"
}
```

## Output Example

```
{
  "Response": {
    "VpcSet": [
      {
        "VpcId": "vpc-p5sf61yj",
        "VpcName": "Test dhcp",
        "CidrBlock": "10.0.0.0/16",
        "Ipv6CidrBlock": "3402:4e00:20:1200::/56",
        "IsDefault": false,
        "EnableMulticast": false,
        "CreatedTime": "2018-04-25 10:26:26",
        "EnableDhcp": true,
        "DhcpOptionsId": "dopt-8g7k5qfq",
        "DnsServerSet": [
          "10.0.0.1",
          "183.60.82.98"
        ],
      }
    ],
  }
}
```

```

"DomainName": "aa.bb.cc",
"TagSet": [],
"AssistantCidrSet": []
},
],
"TotalCount": 1,
"RequestId": "6a44afb7-0644-4ff9-9761-3502f99d3a15"
}
}

```

## Example2 Querying the list of VPCs bound to a tag

This example shows you how to query VPCs bound to the tag `city:shanghai` .

### Input Example

```

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

{
  "Limit": "2",
  "Filters": [
    {
      "Values": [
        "shanghai"
      ],
      "Name": "tag:city"
    }
  ],
  "Offset": "0"
}

```

### Output Example

```

{
  "Response": {
    "VpcSet": [
      {
        "VpcId": "vpc-p5sf61yj",
        "VpcName": "Test dhcp",
        "CidrBlock": "10.0.0.0/16",
        "Ipv6CidrBlock": "3402:4e00:20:1200::/56",
        "IsDefault": false,

```

```
"EnableDhcp": true,
"EnableMulticast": false,
"CreatedTime": "2018-04-25 10:26:26",
"DhcpOptionsId": "dopt-8g7k5qfq",
"DnsServerSet": [
  "10.0.0.1",
  "183.60.82.98"
],
"TagSet": [
  {
    "Key": "city",
    "Value": "shanghai"
  }
],
"AssistantCidrSet": [
  {
    "CidrBlock": "192.168.1.0/24",
    "AssistantType": 0,
    "SubnetSet": []
  }
],
"DomainName": "aa.bb.cc"
},
"TotalCount": 1,
"RequestId": "6a44afb7-0644-4ff9-9761-3502f99d3a15"
}
```

## 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
InternalError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DescribeVpcPrivateIpAddresses

最近更新时间：2023-07-11 17:48:26

## 1. API Description

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

This API (DescribeVpcPrivateIpAddresses) is used to query the private IP information of a VPC.

This API is used to query only the information of IP addresses that are already in use. When querying IPs that have not yet been used, this API will not report an error, but the IPs will not appear in the returned results.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpcPrivateIpAddresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The <code>ID</code> of the <code>VPC</code> , such as <code>vpc-f4916u0z</code> .
PrivateIpAddresses.N	Yes	Array of String	The private <code>IP</code> address list. Each request supports a maximum of <code>10</code> batch querying.

### 3. Output Parameters

Parameter Name	Type	Description
VpcPrivateIpAddressSet	Array of <a href="#">VpcPrivateIpAddress</a>	The list of private IP address information.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Batch querying private IPs of a VPC.

This example shows you how to batch query private IPs of a VPC.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeVpcPrivateIpAddresses
&VpcId=vpc-rkxd3pgh
&PrivateIpAddresses.0=10.4.2.2
&PrivateIpAddresses.1=10.4.2.3
&PrivateIpAddresses.2=10.4.2.17
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "VpcPrivateIpAddressSet": [
      {
        "PrivateIpAddress": "10.4.2.2",
        "PrivateIpAddressType": "CTSDB",
        "CidrBlock": "10.4.2.0/24",
        "CreatedTime": "2018-12-27 15:40:10"
      },
      {
        "PrivateIpAddress": "10.4.2.3",
        "PrivateIpAddressType": "CFS",
        "CidrBlock": "10.4.2.0/24",
        "CreatedTime": "2018-09-02 16:48:59"
      },
      {

```

```
"PrivateIpAddress": "10.4.2.17",
"PrivateIpAddressType": "CVM",
"CidrBlock": "10.4.2.0/24",
"CreatedTime": "2018-09-02 16:48:59"
}
],
"RequestId": "75221557-b667-440a-8cfe-ccd1bde2a234"
}
}
```

## 5. Developer Resources

### SDK

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.



InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DescribeVpcInstances

最近更新时间：2023-07-11 17:48:26

## 1. API Description

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

This API (DescribeVpcInstances) is used to query a list of VCM instances on 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	<a href="#">Common Params</a> . The value used for this API: DescribeVpcInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	Yes	Array of <a href="#">Filter</a>	Filter condition. <code>RouteTableIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li><code>vpc-id</code> - String - (Filter condition) VPC instance ID, such as <code>vpc-f4916u0z</code>.</li><li><code>instance-type</code> - String - (Filter condition) CVM instance ID.</li><li><code>instance-name</code> - String - (Filter condition) CVM name.</li></ul>
Offset	No	Integer	Offset.
Limit	No	Integer	The number of requested objects.

### 3. Output Parameters

Parameter Name	Type	Description
InstanceSet	Array of <a href="#">CvmInstance</a>	List of CVM instances.
TotalCount	Integer	The number of eligible CVM instances.
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 VPC-based CVM instances

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeVpcInstances
&Filters.0.Name=vpc-id
&Filters.0.Values.0=vpc-12345678
&Offset=0
&Limit=10
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "InstanceSet": [
      {
        "VpcId": "vpc-12345678",
        "SubnetId": "subnet-12345678",
        "InstanceId": "ins-12345678",
        "InstanceName": "test",
        "InstanceState": "RUNNING",
        "InstanceType": "S2.SMALL2",
        "CPU": 1,
        "Memory": 1,
        "EniLimit": 2,
        "EniIpLimit": 2,
        "InstanceEniCount": 1,
```

```

"CreateTime": "2020-01-01 10:00:00"
}
],
"TotalCount": 1,
"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.

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.

InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

# DeleteVpc

最近更新时间：2023-07-11 17:48:27

## 1. API Description

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

This API (DeleteVpc) is used to delete VPCs.

- Before deleting a VPC, ensure that the VPC contains no resources, including CVMs, cloud databases, NoSQL databases, VPN gateways, direct connect gateways, load balancers, peering connections, and basic network devices that are linked to the VPC.
- The deletion of VPCs is irreversible. Proceed with caution.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteVpc.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.

## 3. Output Parameters

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

## 4. Example

### Example1 Deleting a VPC

This example shows you how to delete a VPC.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteVpc
&VpcId=vpc-g69ed0kj
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

## 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.NetDetectTimeOut	Network probe timed out. Please retry later.
InternalError.ModuleError	Internal module error
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded.ActionLimited	Too often API invocations
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.
UnsupportedOperation.RecordNotExists	The record does not exist.
UnsupportedOperation.RouteTableHasSubnetRule	The routing table is bound to a subnet.



# AttachClassicLinkVpc

最近更新时间：2023-05-19 17:18:58

## 1. API Description

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

This API is used to create a Classiclink between a VPC instance and a classic network device.

- The VPC instance and the classic network device must be in the same region.
- For differences between VPC and the classic network, see [VPC and Classic Network](#).

### **Note :**

This API is async. You can call the [DescribeVpcTaskResult](#) API to query the task result. When the task is completed, you can continue other tasks.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AttachClassicLinkVpc.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID

InstanceIds.N	Yes	Array of String	CVM Instance ID
---------------	-----	-----------------	-----------------

### 3. Output Parameters

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

### 4. Example

#### Example1 Creating a Classiclink

This example shows you how to create a Classiclink.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AttachClassicLinkVpc
&VpcId=vpc-gjui0b5t
&InstanceIds.0=ins-0x5msjda
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

### 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
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.CIDRUnSupportedClassicLink	The specified VPC CIDR range does not support Classiclink.
UnsupportedOperation.ClassicInstanceIdAlreadyExists	The instance has already been bound to the VPC.

# DescribeClassicLinkInstances

最近更新时间：2023-05-17 17:37:43

## 1. API Description

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

This API (DescribeClassicLinkInstances) is used to query the Classiclink instances list.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeClassicLinkInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">FilterObject</a>	Filter conditions. <ul style="list-style-type: none"><li>vpc-id - String - (Filter condition) The VPC instance ID.</li><li>vm-ip - String - (Filter condition) The IP address of the CVM on the basic network.</li></ul>
Offset	No	String	Offset
Limit	No	String	The returned quantity

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of instances meeting the filter condition.
ClassicLinkInstanceSet	Array of <a href="#">ClassicLinkInstance</a>	Classiclink instance.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the Classiclink list

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeClassicLinkInstances
&Filters.0.Name=vpc-id
&Filters.0.Values.0=vpc-gjui0b5t
&Filters.1.Name=vm-ip
&Filters.1.Values.0=10.9.0.3.0
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "ClassicLinkInstanceSet": [
      {
        "VpcId": "vpc-gjui0b5t",
        "InstanceId": "ins-0x5msjda"
      }
    ],
    "TotalCount": 1
  }
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Range	The parameter value is not in the specified range.

# DetachClassicLinkVpc

最近更新时间：2023-05-19 17:18:55

## 1. API Description

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

This API is used to delete a Classiclink.

### **Note :**

This API is async. You can call the [DescribeVpcTaskResult](#) API to query the task result. When the task is completed, you can continue other tasks.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DetachClassicLinkVpc.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.
InstanceIds.N	Yes	Array of	Queries the ID of the CVM instance, such as <code>ins-r8hr2upy</code> .

String

### 3. Output Parameters

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

### 4. Example

#### Example1 Deleting a Classiclink

This example shows you how to delete a Classiclink.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DetachClassicLinkVpc
&VpcId=vpc-gjui0b5t
&InstanceIds.0=ins-0x5msjda
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

### 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# AssignIpv6CidrBlock

最近更新时间：2023-05-17 17:37:46

## 1. API Description

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

This API is used to assign IPv6 ranges.

- To use this API, you must already have a VPC instance. If you do not have a VPC instance yet, use the [CreateVpc](#) API to create one.
- Each VPC can apply for only one IPv6 range.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AssignIpv6CidrBlock.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The <code>ID</code> of the <code>VPC</code> , such as <code>vpc-f4916u0z</code> .

## 3. Output Parameters

Parameter Name	Type	Description
Ipv6CidrBlock	String	The assigned IPv6 IP range, such as 3402:4e00:20:1000::/56
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Assigning an IPv6 IP range

Assigns an IPv6 IP range

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AssignIpv6CidrBlock
&VpcId=vpc-rkxd3pgh
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "Ipv6CidrBlock": "3402:4e00:20:1000::/56",
    "RequestId": "75221557-b667-440a-8cfe-ccd1bde2a234"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded.CidrBlock	The number of assigned IP ranges of the VPC has reached the upper limit.
ResourceInsufficient.CidrBlock	The IP range resources are insufficient.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DescribeVpcIpv6Addresses

最近更新时间：2023-05-17 17:37:42

## 1. API Description

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

This API (DescribeVpcIpv6Addresses) is used to query `VPC` `IPv6` information.

This API is used to query only the information of `IPv6` addresses that are already in use. When querying IPs that have not yet been used, this API will not report an error, but the IPs will not appear in the returned results.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpcIpv6Addresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The <code>ID</code> of the <code>VPC</code> , such as <code>vpc-f4916u0z</code> .
Ipv6Addresses.N	No	Array of String	The <code>IP</code> address list. Each request supports a maximum of <code>10</code> batch querying.
Offset	No	Integer	Offset.
Limit	No	Integer	The returned quantity.

### 3. Output Parameters

Parameter Name	Type	Description
Ipv6AddressSet	Array of <a href="#">VpcIpv6Address</a>	The <code>IPv6</code> address list.
TotalCount	Integer	The total number of <code>IPv6</code> addresses.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the IPv6 address list of a VPC

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeVpcIpv6Addresses
&VpcId=vpc-rkxd3pgh
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "Ipv6AddressSet": [
      {
        "Ipv6Address": "2402:4e00:1000:101:0:8d1a:6c7b:c0e8",
        "Ipv6AddressType": "CVM",
        "CidrBlock": "2402:4e00:1000:101::/64",
        "CreatedTime": "2019-03-01 21:18:07"
      },
      {
        "Ipv6Address": "2402:4e00:1000:101:0:8d20:3e2:683",
        "Ipv6AddressType": "CVM",
        "CidrBlock": "2402:4e00:1000:101::/64",
        "CreatedTime": "2019-03-04 16:00:36"
      },
      {
        "Ipv6Address": "2402:4e00:1000:101:0:8d20:3f5:8b0f",
        "Ipv6AddressType": "CVM",
```

```
"CidrBlock": "2402:4e00:1000:101::/64",
"CreatedTime": "2019-03-04 16:00:48"
},
{
"Ipv6Address": "2402:4e00:1000:101:0:8d24:30a5:d9f3",
"Ipv6AddressType": "CVM",
"CidrBlock": "2402:4e00:1000:101::/64",
"CreatedTime": "2019-03-06 17:49:05"
},
{
"Ipv6Address": "2402:4e00:1000:101:0:8d2e:133c:e12c",
"Ipv6AddressType": "CVM",
"CidrBlock": "2402:4e00:1000:101::/64",
"CreatedTime": "2019-03-11 15:45:07"
},
{
"Ipv6Address": "2402:4e00:1000:108:0:8d24:690c:59c6",
"Ipv6AddressType": "CVM",
"CidrBlock": "2402:4e00:1000:108::/64",
"CreatedTime": "2019-03-06 20:26:47"
}
],
"TotalCount": 6,
"RequestId": "ee464fec-e13e-401b-87f0-f93f047550c2"
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.



# UnassignIpv6CidrBlock

最近更新时间：2023-05-17 17:37:40

## 1. API Description

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

This API (UnassignIpv6CidrBlock) is used to release IPv6 IP ranges.

If the IP range still has occupied IPs that are not yet repossessed, the IP range cannot 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	<a href="#">Common Params</a> . The value used for this API: UnassignIpv6CidrBlock.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The <code>ID</code> of the <code>VPC</code> , such as <code>vpc-f4916u0z</code> .
Ipv6CidrBlock	No	String	The <code>IPv6</code> IP range, such as <code>3402:4e00:20:1000::/56</code>

## 3. Output Parameters

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

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

## 4. Example

### Example1 Releasing an IPv6 IP range

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=UnassignIpv6CidrBlock
&VpcId=vpc-rkxd3pgh
&Ipv6CidrBlock=3402:4e00:20:1000::/56
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "75221557-b667-440a-8cfe-ccd1bde2a234"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.

# CreateAssistantCidr

最近更新时间：2023-08-23 14:11:13

## 1. API Description

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

This API is used to batch create secondary CIDR blocks.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateAssistantCidr.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID , such as vpc-6v2ht8q5 .
CidrBlocks.N	Yes	Array of String	Array of CIDR blocks, such as ["10.0.0.0/16", "172.16.0.0/16"]

## 3. Output Parameters

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

Name		
AssistantCidrSet	Array of <a href="#">AssistantCidr</a>	Array of secondary CIDR blocks. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating a secondary CIDR block

#### Input Example

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

{
  "VpcId": "vpc-12345678",
  "CidrBlocks": [
    "172.16.0.0/24"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "AssistantCidrSet": [
      {
        "VpcId": "vpc-12345678",
        "CidrBlock": "172.16.0.0/24",
        "AssistantType": 0
      }
    ],
    "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.

- [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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.SubnetConflict	Subnet CIDR conflict.
InvalidParameterValue.SubnetOverlapAssistCidr	The subnet IP range overlaps with the secondary CIDR block.
InvalidParameterValue.SubnetRange	Invalid subnet CIDR.
InvalidParameterValue.VpcCidrConflict	Destination IP address range conflicts with CIDR of the current VPC.

LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.

# ModifyAssistantCidr

最近更新时间：2023-08-23 14:11:10

## 1. API Description

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

This API is used to batch modify (add or delete) secondary CIDR blocks.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyAssistantCidr.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID , such as vpc-6v2ht8q5 .
NewCidrBlocks.N	No	Array of String	Array of the secondary CIDR blocks to be added, such as ["10.0.0.0/16", "172.16.0.0/16"]. At least one of <code>NewCidrBlocks</code> and <code>OldCidrBlocks</code> must be specified.
OldCidrBlocks.N	No	Array of String	Array of the secondary CIDR blocks to be deleted, such as ["10.0.0.0/16", "172.16.0.0/16"]. At least one of <code>NewCidrBlocks</code> or <code>OldCidrBlocks</code> must be specified.



### 3. Output Parameters

Parameter Name	Type	Description
AssistantCidrSet	Array of <a href="#">AssistantCidr</a>	Array of secondary CIDR blocks. 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 Modifying a secondary CIDR block

This example shows you how to add a secondary CIDR block: 172.16.1.0/24.

#### Input Example

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

{
  "VpcId": "vpc-12345678",
  "NewCidrBlocks": [
    "172.16.0.0/24"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "AssistantCidrSet": [
      {
        "VpcId": "vpc-12345678",
        "CidrBlock": "172.16.0.0/24",
        "AssistantType": 0,
        "SubnetSet": [
```

```
{
  "VpcId": "vpc-12345678",
  "SubnetId": "subnet-12345678",
  "SubnetName": "xxx",
  "CidrBlock": "10.0.4.0/24",
  "Ipv6CidrBlock": "",
  "IsDefault": false,
  "IsRemoteVpcSnat": false,
  "EnableBroadcast": false,
  "Zone": "xx",
  "RouteTableId": "rtb-xx",
  "NetworkAclId": "",
  "TotalIpAddressCount": "xx",
  "AvailableIpAddressCount": "xx",
  "CreatedTime": "xxxx-xx-xx xx:xx:xx",
  "TagSet": []
}
],
"RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
}
```

## Example2 Adding and deleting secondary CIDR blocks

This example shows you how to add a secondary CIDR block 172.16.1.0/24 while deleting 172.16.0.0/24.

### Input Example

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

```
{
  "VpcId": "vpc-12345678",
  "OldCidrBlocks": [
    "172.16.0.0/24"
  ],
  "NewCidrBlocks": [
    "172.16.1.0/24"
  ]
}
```

## Output Example

```
{
  "Response": {
    "AssistantCidrSet": [
      {
        "VpcId": "vpc-12345678",
        "CidrBlock": "172.16.1.0/24",
        "AssistantType": 0,
        "SubnetSet": [
          {
            "VpcId": "vpc-12345678",
            "SubnetId": "subnet-12345678",
            "SubnetName": "xxx",
            "CidrBlock": "10.0.4.0/24",
            "Ipv6CidrBlock": "",
            "IsDefault": false,
            "IsRemoteVpcSnat": false,
            "EnableBroadcast": false,
            "Zone": "xx",
            "RouteTableId": "rtb-xx",
            "NetworkAclId": "",
            "TotalIpAddressCount": "xx",
            "AvailableIpAddressCount": "xx",
            "CreatedTime": "xxxx-xx-xx xx:xx:xx",
            "TagSet": []
          }
        ]
      }
    ],
    "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
  }
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.SubnetConflict	Subnet CIDR conflict.
InvalidParameterValue.SubnetOverlapAssistCidr	The subnet IP range overlaps with the secondary CIDR block.
InvalidParameterValue.VpcCidrConflict	Destination IP address range conflicts with CIDR of the current VPC.
LimitExceeded	Quota limit is reached.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DescribeAssistantCidr

最近更新时间：2023-08-23 14:11:11

## 1. API Description

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

This API is used to query the list of secondary CIDR blocks.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeAssistantCidr.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcIds.N	No	Array of String	The ID of a VPC instance set, such as <code>vpc-6v2ht8q5</code> .
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. <code>VpcIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"> <li><code>vpc-id</code> - String - (Filter condition) VPC instance ID, such as <code>vpc-f4916u0z</code>.</li> </ul>
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value:

100.

### 3. Output Parameters

Parameter Name	Type	Description
AssistantCidrSet	Array of <a href="#">AssistantCidr</a>	A set of eligible secondary CIDR blocks Note: This field may return null, indicating that no valid value was found.
TotalCount	Integer	Number of eligible instances.
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 secondary CIDR blocks

This example shows you how to query the list of secondary CIDR blocks.

#### Input Example

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

{}
```

#### Output Example

```
{
  "Response": {
    "AssistantCidrSet": [
      {
        "VpcId": "vpc-12345678",
        "CidrBlock": "172.16.0.0/16",
        "AssistantType": 0,
        "SubnetSet": []
      }
    ]
  }
}
```

```
],  
"TotalCount": 1,  
"RequestId": "c65ffbe5-512a-44fd-9611-99d12f4e565d"  
}  
}
```

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.

# CheckAssistantCidr

最近更新时间：2023-07-11 17:48:28

## 1. API Description

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

This API is used to check whether the secondary CIDR block conflicts with existing routes, peering connections (peer VPC CIDR blocks), and other resources.

- Check whether the secondary CIDR block overlaps with the primary/secondary CIDR block of the current VPC.
- Check whether the secondary CIDR block overlaps with the routing destination of the current VPC.
- If the current VPC is used in a peering connection, check whether the secondary CIDR block overlaps with the primary/secondary CIDR block of the peer VPC.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CheckAssistantCidr.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID , e.g. <code>vpc-6v2ht8q5</code> .
NewCidrBlocks.N	No	Array of String	Load CIDR blocks to add. CIDR block set; format: e.g. ["10.0.0.0/16", "172.16.0.0/16"]



OldCidrBlocks.N	No	Array of String	Load CIDR blocks to delete. CIDR block set; Format: e.g. ["10.0.0.0/16", "172.16.0.0/16"]
-----------------	----	-----------------	---

### 3. Output Parameters

Parameter Name	Type	Description
ConflictSourceSet	Array of <a href="#">ConflictSource</a>	Array of conflict resources.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Checking secondary CIDR block conflicts-2

In this example, the secondary CIDR block does not conflict with the existing VPC information.

#### Input Example

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

{
  "VpcId": "vpc-12345678",
  "NewCidrBlocks": [
    "172.16.0.0/24"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "ConflictSourceSet": [],
    "RequestId": "e906fed4-292c-44ba-a240-f5bde9fd84c7"
  }
}
```

## Example2 Checking secondary CIDR block conflicts

In this example, the secondary CIDR block conflicts with the existing VPC information.

### Input Example

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

{
  "VpcId": "vpc-12345678",
  "NewCidrBlocks": [
    "172.16.0.0/24"
  ]
}
```

### Output Example

```
{
  "Response": {
    "ConflictSourceSet": [
      {
        "ConflictSourceId": "vpcd-122d5678",
        "SourceItem": "172.16.0.0/16",
        "ConflictItemSet": [
          {
            "ConflictId": "vpc-12345678",
            "DestinationItem": "172.16.0.0/24"
          }
        ]
      }
    ],
    "RequestId": "e906fed4-29ew-44ba-a240-f5bde9fd84c7"
  }
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.SubnetConflict	Subnet CIDR conflict.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.

# DeleteAssistantCidr

最近更新时间：2023-08-23 14:11:12

## 1. API Description

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

This API is used to delete a secondary CIDR block.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteAssistantCidr.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID , such as vpc-6v2ht8q5 .
CidrBlocks.N	Yes	Array of String	Array of CIDR blocks, such as ["10.0.0.0/16", "172.16.0.0/16"]

## 3. Output Parameters

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

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

## 4. Example

### Example1 Deleting a secondary CIDR block

#### Input Example

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

{
  "VpcId": "vpc-12345678",
  "CidrBlocks": [
    "172.16.0.0/24"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "2fd3d9b3-42cb-4d80-9e19-d97e978df80b"
  }
}
```

## 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
InvalidParameter	A parameter error occurred.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.

# DescribeVpcResourceDashboard

最近更新时间：2023-05-19 17:18:56

## 1. API Description

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

View VPC resources.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpcResourceDashboard.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcIds.N	Yes	Array of String	Vpc instance ID, e.g. vpc-f1xjkw1b.

## 3. Output Parameters

Parameter Name	Type	Description
ResourceDashboardSet	Array of	List of resource objects.

	<a href="#">ResourceDashboard</a>	
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying resources associated with a VPC

This example shows you how to query resources associated with a VPC.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeVpcResourceDashboard
&VpcIds.0=vpc-0akbol5v
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "ResourceDashboardSet": [
      {
        "VpcId": "vpc-0akbol5v",
        "SubnetId": "",
        "Classiclink": 0,
        "Nat": 2,
        "Vpngw": 1,
        "Dcg": 1,
        "Pcx": 1,
        "FlowLog": 0,
        "NetworkDetect": 0,
        "NetworkACL": 0,
        "Ip": 157,
        "CVM": 49,
        "LB": 1,
        "CDB": 88,
        "Cmem": 0,
        "CTSDB": 0,
        "MariaDB": 0,
        "SQLServer": 0,
        "Postgres": 0,
        "NAS": 0,
        "Greenplumn": 0,

```



```
"Ckafka": 2,  
"Grocery": 0,  
"HSM": 17,  
"Tcaplus": 0,  
"Cnas": 0,  
"TiDB": 0,  
"Emr": 0,  
"SEAL": 0,  
"CFS": 0,  
"Oracle": 0,  
"ElasticSearch": 0,  
"TBaaS": 0,  
"Itop": 0,  
"DBAudit": 0,  
"CynosDBPostgres": 0,  
"Redis": 0,  
"MongoDB": 0,  
"DCDB": 0,  
"CynosDBMySQL": 0,  
"Subnet": 1,  
"RouteTable": 1  
}  
],  
"RequestId": "0fee1673-de33-4f0c-9ce4-037cbcf2d7b2"  
}  
}
```

## 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
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# ModifyLocalGateway

最近更新时间：2023-08-23 14:11:10

## 1. API Description

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

This API is used to modify the local gateway of a CDC 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	<a href="#">Common Params</a> . The value used for this API: ModifyLocalGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
LocalGatewayName	Yes	String	Local gateway name
Cdclid	Yes	String	CDC instance ID
LocalGatewayId	Yes	String	Local gateway instance ID
VpcId	No	String	VPC instance ID

## 3. Output Parameters

--	--	--

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

## 4. Example

### Example1 Modifying a local gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyLocalGateway
&LocalGatewayName=test1
&CdcId=cluster-1234dert
&LocalGatewayId=lgw-1234edfr
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

## 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
InternalError	An internal error occurred.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.

# DescribeLocalGateway

最近更新时间：2023-08-23 14:11:11

## 1. API Description

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

This API is used to query local gateways of a CDC 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	<a href="#">Common Params</a> . The value used for this API: DescribeLocalGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">Filter</a>	Query criteria: vpc-id: filter by VPC ID; local-gateway-name: filter by local gateway name (fuzzy search is supported); local-gateway-id: filter by local gateway instance ID; cdc-id: filter by CDC instance ID.
Offset	No	Integer	The offset. Default value: 0. For more information on <code>Offset</code> , see the relevant sections in API <a href="#">Introduction</a> .
Limit	No	Integer	The number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , see the relevant sections in API <a href="#">Introduction</a> .

### 3. Output Parameters

Parameter Name	Type	Description
LocalGatewaySet	Array of <a href="#">LocalGateway</a>	Information set of local gateways
TotalCount	Integer	Total number of local gateways
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying local gateways

##### Input Example

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

##### Output Example

```
{
  "Response": {
    "LocalGatewaySet": [
      {
        "CdcId": "cluster-1234dert",
        "VpcId": "vpc-m0c2kcun",
        "UniqLocalGwId": "lgw-1234edfr",
        "LocalGatewayName": "TEST",
        "LocalGwIp": "10.0.0.0",
        "CreateTime": "2021-03-24 15:31:56"
      }
    ],
    "TotalCount": 1,
    "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.

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.



# DeleteLocalGateway

最近更新时间：2023-08-23 14:11:12

## 1. API Description

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

This API is used to delete the local gateway of a CDC 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	<a href="#">Common Params</a> . The value used for this API: DeleteLocalGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
LocalGatewayId	Yes	String	Local gateway instance ID
CdId	Yes	String	CDC instance ID
VpId	No	String	VPC instance ID

## 3. Output Parameters

--	--	--

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

## 4. Example

### Example1 Deleting a local gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteLocalGateway
&CdcId=cluster-1234dert
&LocalGatewayId=lgw-1234edfr
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

## 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
InternalError	An internal error occurred.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.

# CreateLocalGateway

最近更新时间：2023-08-23 14:11:12

## 1. API Description

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

This API is used to create a local gateway for a CDC 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	<a href="#">Common Params</a> . The value used for this API: CreateLocalGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
LocalGatewayName	Yes	String	Local gateway name
VpcId	Yes	String	VPC instance ID
Cdclid	Yes	String	CDC instance ID

## 3. Output Parameters

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

Name		
LocalGateway	<a href="#">LocalGateway</a>	Local gateway information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating a local gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateLocalGateway
&CdcId=cluster-1234dert
&VpcId=vpc-m0c2kcun
&LocalGatewayName=TEST
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "LocalGateway": {
      "CdcId": "cluster-1234dert",
      "VpcId": "vpc-m0c2kcun",
      "UniqLocalGwId": "lgw-1234edfr",
      "LocalGatewayName": "TEST",
      "LocalGwIp": "10.0.0.0",
      "CreateTime": "2021-03-24 15:31:56"
    },
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

## 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
InternalServerError	An internal error occurred.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.LocalGatewayAlreadyExists	The specified CDC instance already has a local gateway.

# AdjustPublicAddress

最近更新时间：2023-08-23 14:11:13

## 1. API Description

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

This API is used to change the public IP of a CVM or the EIP of the associated bandwidth package.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AdjustPublicAddress.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
InstanceId	No	String	The unique ID of the CVM instance, such as <code>ins-11112222</code> .
AddressId	No	String	The unique ID of the EIP, such as <code>eip-11112222</code> .

## 3. Output Parameters

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

TaskId	Integer	The async task ID. You can use the <a href="#">DescribeTaskResult</a> 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 Changing the public IP

This example show you how to change the public IP of a CVM instance.

#### Input Example

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

{
  "InstanceId": "ins-1vogaxgk"
}
```

#### Output Example

```
{
  "Response": {
    "TaskId": 5513621,
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

### Example2 Changing the EIP bound with a monthly bandwidth package

This example show you how to change the EIP bound with a monthly bandwidth package.

#### Input Example

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



```
<Common request parameters>
```

```
{  
  "AddressId": "eip-oy67r5oi"  
}
```

### Output Example

```
{  
  "Response": {  
    "TaskId": 5312621,  
    "RequestId": "6AF60BEC-0142-43AF-CB20-276271FB54A7"  
  }  
}
```

## 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
------------	-------------

InvalidAccount.NotSupported	This account is not supported.
InvalidAddressId.Blocked	The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.
InvalidInstanceId.NotFound	Invalid instance ID. The specified instance ID does not exist.
InvalidParameterValue.AddressAttacked	Attacked IP address.
InvalidParameterValue.AddressIpNotAvailable	The IP address is not available now.
InvalidParameterValue.AddressNotFound	Unable to find the address.
InvalidParameterValue.Combination	Invalid input parameters
InvalidParameterValue.InstanceHasNoWanIP	The instance does not have a public IP.
InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.InstanceNoWanIP	Request failed: this instance does not have a WanIP (public IP).
InvalidParameterValue.ResourceNotSupport	The resource does not support this operation.
InvalidParameterValue.UnavailableZone	This availability zone is unavailable.
LimitExceeded.ChangeAddressQuota	Run out of the chances to change the IP.
LimitExceeded.DailyChangeAddressQuota	Run out of the daily chances to change the IP.
OperationDenied.AddressInArrears	The specified public IP is isolated.
OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
ResourceInsufficient	Insufficient resources.
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.InvalidAddressInternetChargeType	This operation is not allowed under the network billing mode of the IP address.
UnsupportedOperation.IspNotSupported	This ISP does not support this operation.

# DescribeTrafficPackages

最近更新时间：2023-08-23 14:11:11

## 1. API Description

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

This API is used to query the details of shared traffic packages.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeTrafficPackages.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
TrafficPackageIds.N	No	Array of String	Traffic package IDs. Multiple values can be used.
Filters.N	No	Array of <a href="#">Filter</a>	Each request can have up to 10 <code>Filters</code> . <code>TrafficPackageIds</code> and <code>Filters</code> cannot be specified at the same time. The specific filter conditions are as follows: <ul style="list-style-type: none"> <li><code>traffic-package_id</code> - String - Optional - Filter by the traffic package ID.</li> </ul>

			<ul style="list-style-type: none"> <li><code>traffic-package-name</code> - String - Optional - Filter by the traffic package name. Fuzzy match is not supported.</li> <li><code>status</code> - String - Optional - Filter by the traffic package status. Values: [AVAILABLE EXPIRED EXHAUSTED].</li> </ul>
Offset	No	Integer	Pagination parameter
Limit	No	Integer	Pagination parameter

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible traffic packages
TrafficPackageSet	Array of <a href="#">TrafficPackage</a>	Traffic package information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the list of shared traffic packages under the current account

This example shows you how to query the list of shared traffic packages under the current account.

##### Input Example

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

{}
```

##### Output Example

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

```
"TrafficPackageSet": [  
  {  
    "TrafficPackageId": "tfp-g67j1h1j",  
    "TrafficPackageName": "Unnamed",  
    "TotalAmount": 10,  
    "RemainingAmount": 10,  
    "Status": "AVAILABLE",  
    "CreatedTime": "2022-08-31T11:42:37Z",  
    "Deadline": "2022-09-30T11:42:36Z",  
    "DeductType": "FULL_TIME",  
    "UsedAmount": 0,  
    "TagSet": [  
      {  
        "Key": "aa",  
        "Value": "bb"  
      }  
    ]  
  },  
  {  
    "RequestId": "e92ac36b-db69-4329-b030-9276b88d93c4"  
  }  
]
```

## Example2 Querying details of all shared traffic packages under the current account

This example shows you how to query details of all shared traffic packages under the current account.

### Input Example

```
POST / HTTP/1.1  
Host: vpc.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: DescribeTrafficPackages  
<Common request parameters>  
  
{}
```

### Output Example

```
{  
  "Response": {  
    "TotalCount": 1,  
    "TrafficPackageSet": [  
      {  
        "TrafficPackageId": "tfp-g67j1h1j",  
        "TrafficPackageName": "Unnamed",  
        "TotalAmount": 10,  
        "RemainingAmount": 10,  
        "Status": "AVAILABLE",  
        "CreatedTime": "2022-08-31T11:42:37Z",  
        "Deadline": "2022-09-30T11:42:36Z",  
        "DeductType": "FULL_TIME",  
        "UsedAmount": 0,  
        "TagSet": [  
          {  
            "Key": "aa",  
            "Value": "bb"  
          }  
        ]  
      }  
    ]  
  }  
}
```

```
"TotalAmount": 10,
"RemainingAmount": 10,
"Status": "AVAILABLE",
"CreatedTime": "2022-08-31T11:42:37Z",
"Deadline": "2022-09-30T11:42:36Z",
"DeductType": "FULL_TIME",
"UsedAmount": 0,
"TagSet": [
  {
    "Key": "aa",
    "Value": "bb"
  }
],
"RequestId": "e92ac36b-db69-4329-b030-9276b88d93c4"
}
```

## 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
InvalidParameter.InvalidFilter	The filter rule is invalid.
InvalidParameterValue.TrafficPackageIdMalformed	The traffic package ID is invalid.

# Subnet APIs

## AssignIpv6SubnetCidrBlock

最近更新时间：2023-05-19 17:18:59

### 1. API Description

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

This API (AssignIpv6SubnetCidrBlock) is used to assign IPv6 subnet IP ranges.

- To assign an `IPv6` IP range to a subnet, the `VPC` that the subnet belongs to should have obtained the `IPv6` IP range. If this has not been assigned, use the `AssignIpv6CidrBlock` API to assign an `IPv6` IP range to the `VPC` to which the subnet belongs. Otherwise, the `IPv6` subnet IP range cannot be assigned.
- Each subnet can only be assigned one IPv6 IP range.

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

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AssignIpv6SubnetCidrBlock.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The <code>ID</code> of the VPC where the subnet is



			located, such as <code>vpc-f4916u0z</code> .
<code>Ipv6SubnetCidrBlocks.N</code>	Yes	Array of <a href="#">Ipv6SubnetCidrBlock</a>	The assigned <code>IPv6</code> subnet IP range list.

### 3. Output Parameters

Parameter Name	Type	Description
<code>Ipv6SubnetCidrBlockSet</code>	Array of <a href="#">Ipv6SubnetCidrBlock</a>	The assigned <code>IPv6</code> subnet IP range list.
<code>RequestId</code>	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Applying for an IPv6 subnet IP range

This example shows you how to apply for an IPv6 subnet.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AssignIpv6SubnetCidrBlock
<Common request parameters>

{
  "VpcId": "vpc-q26u781x",
  "Ipv6SubnetCidrBlocks": [
    {
      "SubnetId": "subnet-8uwg949c",
      "Ipv6CidrBlock": "2001::85b:3c51:f5ff:ffdb"
    }
  ]
}
```

#### Output Example

```
{
  "Response": {
    "Ipv6SubnetCidrBlockSet": [
      {
        "SubnetId": "subnet-8uwg949c",
        "Ipv6CidrBlock": "2001::85b:3c51:f5ff:ffdb"
      }
    ],
    "RequestId": "d681727c-6291-4409-9ab6-6ecbb493243c"
  }
}
```

## 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
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.

InvalidParameterValue.SubnetConflict	Subnet CIDR conflict.
InvalidParameterValue.SubnetRange	Invalid subnet CIDR.
LimitExceeded.SubnetCidrBlock	The number of subnet IP ranges assigned in the subnet has reached the upper limit.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

# DeleteSubnet

最近更新时间：2023-08-23 14:11:14

## 1. API Description

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

This API is used to delete a subnet.

- Remove all resources in the subnet before deleting it

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteSubnet.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SubnetId	Yes	String	The ID of the subnet instance. You can obtain the parameter value from the SubnetId field in the returned result of DescribeSubnets API.

## 3. Output Parameters

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

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

## 4. Example

### Example1 Deleting a subnet

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteSubnet
&Version=2017-03-12
&SubnetId=subnet-pxir56ns
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.NatGatewaySnatRuleNotExists	The SNAT forwarding rule of the NAT gateway does not exist.
UnsupportedOperation.RecordNotExists	The record does not exist.

# UnassignIpv6SubnetCidrBlock

最近更新时间：2023-07-11 17:48:28

## 1. API Description

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

This API (UnassignIpv6SubnetCidrBlock) is used to release IPv6 subnet IP ranges.

If the subnet IP range still has occupied IPs that are not yet repossessed, the subnet IP range cannot 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	<a href="#">Common Params</a> . The value used for this API: UnassignIpv6SubnetCidrBlock.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The <code>ID</code> of the VPC where the subnet is located, such as <code>vpc-f4916u0z</code> .
Ipv6SubnetCidrBlocks.N	Yes	Array of <a href="#">Ipv6SubnetCidrBlock</a>	The <code>IPv6</code> subnet IP range list.

## 3. Output Parameters

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

## 4. Example

### Example1 Releasing an IPv6 subnet IP range

This example shows you how to release an IPv6 subnet IP range.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=UnassignIpv6SubnetCidrBlock
&VpcId=vpc-rkxd3pgh
&Ipv6SubnetCidrBlocks.0.SubnetId=subnet-ewhv1m9e
&Ipv6SubnetCidrBlocks.1.SubnetId=subnet-3s5bhzb0
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "75221557-b667-440a-8cfe-ccd1bde2a234"
  }
}
```

## 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
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.

# CreateSubnet

最近更新时间：2023-08-23 14:11:14

## 1. API Description

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

This API is used to create a subnet.

- You must create a VPC instance before creating a subnet.
- After the subnet is successfully created, its IP address range cannot be modified. The subnet IP address range must fall within the VPC IP address range. They can be the same if the VPC instance has only one subnet. We recommend that you keep the subnet IP address range within the VPC IP address range to reserve IP address ranges for other subnets.
- The subnet mask of the smallest IP address range that can be created is 28 (16 IP addresses), and that of the largest IP address range is 16 (65,536 IP addresses).
- IP address ranges of different subnets cannot overlap with each other within the same VPC instance.
- A subnet is automatically associated with the default route table once created.
- You can bind a tag when creating a subnet. The tag list in the response indicates the tags that have been successfully added.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateSubnet.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.

Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The ID of the VPC instance to be operated on. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.
SubnetName	Yes	String	The subnet name. The maximum length is 60 bytes.
CidrBlock	Yes	String	The 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.
Zone	Yes	String	The ID of the availability zone in which the subnet resides. You can set up disaster recovery across availability zones by choosing different availability zones for different subnets.
Tags.N	No	Array of <a href="#">Tag</a>	Bound tags, such as [{"Key": "city", "Value": "shanghai"}].
Cdclid	No	String	CDC instance ID

### 3. Output Parameters

Parameter Name	Type	Description
Subnet	<a href="#">Subnet</a>	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 a subnet

This example shows you how to create a subnet.

#### Input Example

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

```

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

{
  "SubnetName": "TestSubnet",
  "VpcId": "vpc-m3u1053f",
  "CidrBlock": "10.8.0.0/24",
  "Zone": "ap-guangzhou-1",
  "Tags": [
    {
      "Value": "shanghai",
      "Key": "city"
    }
  ]
}
    
```

### Output Example

```

{
  "Response": {
    "Subnet": {
      "VpcId": "vpc-m3u1053f",
      "EnableBroadcast": true,
      "Zone": "1001",
      "IsCdcSubnet": 0,
      "AvailableIpAddressCount": 1021,
      "IsRemoteVpcSnat": true,
      "SubnetName": "subnet1",
      "TotalIpAddressCount": 1024,
      "TagSet": [
        {
          "Value": "shanghai",
          "Key": "city"
        }
      ],
      "CreatedTime": "2023-03-21 18:00:00",
      "SubnetId": "subnet-1d32nvu2",
      "CidrBlock": "10.8.0.0/24",
      "IsDefault": false,
      "CdcId": "",
      "Ipv6CidrBlock": "",
      "RouteTableId": "",
      "NetworkAclId": ""
    },
    "RequestId": "9450a158-0487-4baa-bd3f-a07f343b6c4e"
  }
}
    
```

```
}  
}
```

## 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.NetDetectTimeOut	Network probe timed out. Please retry later.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.

InvalidParameterValue.SubnetConflict	Subnet CIDR conflict.
InvalidParameterValue.SubnetOverlap	The CIDR block overlaps with another subnet within the same VPC.
InvalidParameterValue.SubnetRange	Invalid subnet CIDR.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
InvalidParameterValue.ZoneConflict	The <code>zone</code> parameter value should be the zone where CDC resides.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.

LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.
UnsupportedOperation.DcGatewaysNotFoundInVpc	No direct connect gateway exists in the specified VPC.
UnsupportedOperation.RecordExists	This record already exists.
UnsupportedOperation.RecordNotExists	The record does not exist.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# CreateSubnets

最近更新时间：2023-08-23 14:11:14

## 1. API Description

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

This API is used to create subnets in batches.

- You must create a VPC instance before creating a subnet.
- After the subnet is successfully created, its IP address range cannot be modified. The subnet IP address range must fall within the VPC IP address range. They can be the same if the VPC has only one subnet. We recommend that you keep the subnet IP address range within the VPC IP address range to reserve IP address ranges for other subnets.
- The subnet mask of the smallest IP address range that can be created is 28 (16 IP addresses), and that of the largest IP address range is 16 (65,536 IP addresses).
- IP address ranges of different subnets cannot overlap with each other within the same VPC instance.
- A subnet is automatically associated with the default route table once created.
- You can bind a tag when creating a subnet. The tag list in the response indicates the tags that have been successfully added.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateSubnets.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.



Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The <code>ID</code> of the <code>VPC</code> instance, such as <code>vpc-6v2ht8q5</code> .
Subnets.N	Yes	Array of <a href="#">SubnetInput</a>	The subnet object list.
Tags.N	No	Array of <a href="#">Tag</a>	Bound tags. Note that the collection of tags here is shared by all subnet objects in the list. You cannot specify tags for each subnet. Example: [{"Key": "city", "Value": "shanghai"}].
Cdclid	No	String	ID of the CDC instance to which the subnets will be created

### 3. Output Parameters

Parameter Name	Type	Description
SubnetSet	Array of <a href="#">Subnet</a>	The list of newly created subnets.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Batch creating subnets

This example shows you how to batch create subnets.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateSubnets
&VpcId=vpc-6v2ht8q5
&Subnets.0.CidrBlock=10.4.14.0/24
&Subnets.0.SubnetName=t1
&Subnets.0.Zone=ap-guangzhou-2
&Tags.0.Key=city
&Tags.0.Value=shanghai
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "SubnetSet": [
      {
        "NetworkAclId": "acl-6v2ht8q5",
        "RouteTableId": "rtb-pwtiswpd",
        "VpcId": "vpc-6v2ht8q5",
        "EnableBroadcast": false,
        "Zone": "ap-guangzhou-2",
        "IsCdcSubnet": 0,
        "Ipv6CidrBlock": "",
        "CdcId": "",
        "AvailableIpAddressCount": 1,
        "IsRemoteVpcSnat": true,
        "SubnetName": "t1",
        "TotalIpAddressCount": 1,
        "TagSet": [
          {
            "Key": "city",
            "Value": "shanghai"
          }
        ],
        "CreatedTime": "2023-03-29 14:32:17",
        "SubnetId": "subnet-5v5nrzz9",
        "CidrBlock": "10.4.14.0/24",
        "IsDefault": false
      }
    ],
    "RequestId": "158ac65e-d504-42f6-baac-b716f5855254"
  }
}
```

## 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
InvalidParameter	A parameter error occurred.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.SubnetConflict	Subnet CIDR conflict.
InvalidParameterValue.SubnetRange	Invalid subnet CIDR.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.

InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
InvalidParameterValue.ZoneConflict	The <code>zone</code> parameter value should be the zone where CDC resides.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.
UnsupportedOperation.DcGatewaysNotFoundInVpc	No direct connect gateway exists in the specified VPC.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# DescribeSubnetResourceDashboard

最近更新时间：2023-08-23 14:11:13

## 1. API Description

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

This API is used to query the subnet 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	<a href="#">Common Params</a> . The value used for this API: DescribeSubnetResourceDashboard.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SubnetIds.N	Yes	Array of String	Subnet instance ID, such as <code>subnet-f1xjkw1b</code> .

## 3. Output Parameters

Parameter Name	Type	Description
ResourceStatisticsSet	Array of	Information of resources returned

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

## 4. Example

### Example1 Querying resources associated with a subnet

This example shows you how to query the

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeSubnetResourceDashboard
&SubnetIds.0=subnet-12345678
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "ResourceStatisticsSet": [
      {
        "VpcId": "vpc-12345678",
        "SubnetId": "subnet-12345678",
        "Ip": 14,
        "ResourceStatisticsItemSet": [
          {
            "ResourceType": "NetworkDetect",
            "ResourceName": "NetworkDetect",
            "ResourceCount": 1
          },
          {
            "ResourceType": "LoadBanlancer",
            "ResourceName": "LoadBanlancer",
            "ResourceCount": 2
          },
          {
            "ResourceType": "MySQL",
            "ResourceName": "MySQL",
            "ResourceCount": 1
          },
          {
            "ResourceType": "Memcached",
```

```
"ResourceName": "Memcached",
"ResourceCount": 1
},
{
"ResourceType": "CTSDB",
"ResourceName": "CTSDB",
"ResourceCount": 0
},
{
"ResourceType": "TDSQL",
"ResourceName": "TDSQL",
"ResourceCount": 0
},
{
"ResourceType": "SQL Server",
"ResourceName": "SQL Server",
"ResourceCount": 0
},
{
"ResourceType": "PostgreSQL",
"ResourceName": "PostgreSQL",
"ResourceCount": 0
},
{
"ResourceType": "NAS",
"ResourceName": "NAS",
"ResourceCount": 0
},
{
"ResourceType": "Snova",
"ResourceName": "Snova",
"ResourceCount": 0
},
{
"ResourceType": "Kafka",
"ResourceName": "Kafka",
"ResourceCount": 1
},
{
"ResourceType": "Grocery",
"ResourceName": "Grocery",
"ResourceCount": 0
},
{
"ResourceType": "Cloudhsm",
"ResourceName": "Cloudhsm",
"ResourceCount": 0
```

```

},
{
  "ResourceType": "MongoDB",
  "ResourceName": "MongoDB",
  "ResourceCount": 0
}
]
}
],
"RequestId": "0fee1673-de33-4f0c-9ce4-037cbcf2d7b2"
}
}

```

## 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
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.



InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DescribeSubnets

最近更新时间：2023-08-23 14:19:59

## 1. API Description

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

This API (DescribeSubnets) is used to query the list of subnets.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeSubnets.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SubnetIds.N	No	Array of String	Queries the ID of the subnet instance, such as <code>subnet-pxir56ns</code> . Each request can have a maximum of 100 instances. <code>SubnetIds</code> and <code>Filters</code> cannot be specified at the same time.

Parameter Name	Required	Type	Description
Filters.N	No	Array of <a href="#">Filter</a>	<p>Filter condition. <code>SubnetIds</code> and <code>Filters</code> cannot be specified at the same time.</p> <ul style="list-style-type: none"> <li><code>subnet-id</code> - String - (Filter condition) Subnet instance name.</li> <li><code>vpc-id</code> - String - (Filter condition) VPC instance ID, such as <code>vpc-f4916u0z</code>.</li> <li><code>cidr-block</code> - String - (Filter condition) Subnet IP range, such as <code>192.168.1.0</code>.</li> <li><code>is-default</code> - Boolean - (Filter condition) Whether it is the default subnet.</li> <li><code>is-remote-vpc-snat</code> - Boolean - (Filter condition) Whether it is a VPC SNAT address pool subnet.</li> <li><code>subnet-name</code> - String - (Filter condition) Subnet name.</li> <li><code>zone</code> - String - (Filter condition) Availability zone.</li> <li><code>tag-key</code> - String - Required: No - (Filter condition) Filter by tag key.</li> <li><code>tag:tag-key</code> - String - Required: No - (Filter condition) Filter by tag key-value pair. Use a specific tag key to replace <code>tag-key</code>. For its usage, see example 2.</li> <li><code>cdc-id</code> - String - Required: No - (Filter condition) Filter by CDC ID to obtain subnets in the specified CDC.</li> <li><code>is-cdc-subnet</code> - String - Required: No - (Filter condition) Whether it is a CDC subnet. Valid values: <code>0</code> (no); <code>1</code> (yes).</li> </ul>
Offset	No	String	Offset. Default value: 0.
Limit	No	String	Number of returned results. Default value: 20. Maximum value: 100.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of instances meeting the filter condition.
SubnetSet	Array of <a href="#">Subnet</a>	Subnet object.
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 subnets.

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

#### Input Example

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

{
  "Filters": [
    {
      "Values": [
        "vpc-2at5y1pn"
      ],
      "Name": "vpc-id"
    },
    {
      "Values": [
        "Default Guangzhou Zone 2 subnet"
      ],
      "Name": "subnet-name"
    },
    {
      "Values": [
        "172.16.16.0"
      ],
      "Name": "cidr-block"
    },
    {
      "Values": [
        "subnet-otu92seu"
      ],
      "Name": "subnet-id"
    },
    {
      "Values": [
        "true"
      ],
      "Name": "is-default"
    }
  ]
}
```

```
]
}
```

## Output Example

```
{
  "Response": {
    "SubnetSet": [
      {
        "NetworkAclId": "",
        "RouteTableId": "rtb-n0yr460a",
        "VpcId": "vpc-n0yr460a",
        "EnableBroadcast": false,
        "Zone": "ap-guangzhou",
        "Ipv6CidrBlock": "",
        "AvailableIpAddressCount": 1,
        "IsRemoteVpcSnat": false,
        "SubnetName": "Subnet 1",
        "TotalIpAddressCount": 1,
        "IsCdcSubnet": 0,
        "CdcId": "cluster-1234dert",
        "TagSet": [
          {
            "Value": "ck",
            "Key": "kc"
          }
        ],
        "CreatedTime": "2020-05-25 20:09:07",
        "SubnetId": "subnet-bthucmmy",
        "CidrBlock": "10.0.0.0/16",
        "IsDefault": true
      }
    ],
    "TotalCount": 1,
    "RequestId": "cccb2665-5d02-4d87-b9e7-757bb06e5beb"
  }
}
```

## Example2 Querying the list of subnets bound with the tag

This example shows you how to query subnet by tags.

## Input Example

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

**Content-Type: application/json**

**X-TC-Action: DescribeSubnets**

<Common request parameters>

```
{
  "Filters": [
    {
      "Values": [
        "shanghai"
      ],
      "Name": "tag:city"
    }
  ]
}
```

## Output Example

```
{
  "Response": {
    "SubnetSet": [
      {
        "NetworkAclId": "",
        "RouteTableId": "rtb-n0yr460a",
        "VpcId": "vpc-n0yr460a",
        "EnableBroadcast": false,
        "Zone": "ap-guangzhou",
        "Ipv6CidrBlock": "2001::85b:3c51:f5ff:ffda",
        "AvailableIpAddressCount": 1,
        "IsRemoteVpcSnat": false,
        "SubnetName": "Subnet 2",
        "TotalIpAddressCount": 1,
        "IsCdcSubnet": 0,
        "CdcId": "cluster-1234dert",
        "TagSet": [
          {
            "Value": "gt",
            "Key": "ku"
          }
        ],
        "CreatedTime": "2020-05-25 20:09:07",
        "SubnetId": "subnet-bthucmmy",
        "CidrBlock": "10.0.0.0/16",
        "IsDefault": true
      }
    ],
    "TotalCount": 1,
  }
}
```

```
"RequestId": "cccb2665-5d02-4d87-b9e7-757bb06e5beb"  
}  
}
```

## 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

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.Empty	Missing parameters.

Error Code	Description
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.



# ModifySubnetAttribute

最近更新时间：2023-08-23 14:11:13

## 1. API Description

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

This API (ModifySubnetAttribute) is used to modify subnet attributes.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifySubnetAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SubnetId	Yes	String	Subnet instance ID, such as <code>subnet-pxir56ns</code> .
SubnetName	No	String	The subnet name. The maximum length is 60 bytes.
EnableBroadcast	No	String	Whether the subnet has broadcast enabled.

## 3. Output Parameters

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

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

## 4. Example

### Example1 Modifying the attributes of a subnet

This example shows you how to modify the attributes of a subnet.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifySubnetAttribute
&SubnetId=subnet-test1234
&SubnetName=NewSubnetName
&EnableBroadcast=true
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.

# Route Table APIs

## DescribeRouteTables

最近更新时间：2023-08-23 14:11:18

### 1. API Description

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

This API is used to query route tables.

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

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeRouteTables.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. <code>RouteTableIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li>route-table-id - String - (Filter condition) Route table instance ID.</li><li>route-table-name - String - (Filter condition) Route table name.</li><li>vpc-id - String - (Filter condition) VPC instance ID, such as <code>vpc-f4916u0z</code>.</li><li>association.main - String - (Filter condition) Whether it is the main route table.</li></ul>

			<ul style="list-style-type: none"> <li>tag-key - String - Required: no - (Filter condition) Filter by tag key.</li> <li>tag:tag-key - String - Required: no - (Filter condition) Filter by tag key-value pair. Use a specific tag key to replace <code>tag-key</code> . See Example 2 for the detailed usage.</li> </ul>
RouteTableIds.N	No	Array of String	The route table instance ID, such as <code>rtb-azd4dt1c</code> .
Offset	No	String	Offset.
Limit	No	String	The number of request objects.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of eligible instances.
RouteTableSet	Array of <a href="#">RouteTable</a>	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 Viewing the list of objects in route table

This example shows you how to query the list of objects in route table

#### Input Example

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

{
  "Limit": "1",
```

```

"Filters": [
{
"Values": [
"vpc-2at5y1pn"
],
"Name": "vpc-id"
},
{
"Values": [
"rtb-l2h8d7c2"
],
"Name": "route-table-id"
},
{
"Values": [
"true"
],
"Name": "association.main"
},
{
"Values": [
"TestRouteTable"
],
"Name": "route-table-name"
}
],
"Offset": "0"
}
    
```

## Output Example

```

{
"Response": {
"RouteTableSet": [
{
"VpcId": "vpc-2at5y1pn",
"RouteTableId": "rtb-l2h8d7c2",
"RouteTableName": "TestRouteTable",
"AssociationSet": [],
"RouteSet": [
{
"RouteId": 0,
"RouteItemId": "rti6-12345678",
"DestinationCidrBlock": "",
"DestinationIpv6CidrBlock": "2402:4e00:1000:810b::/64",
"GatewayType": "CCN",
    
```

```
"GatewayId": "ccn-12345678",
"RouteDescription": ""
},
{
"RouteId": 14915,
"RouteItemId": "rti-12345678",
"DestinationCidrBlock": "169.254.64.0/23",
"GatewayType": "NORMAL_CVM",
"GatewayId": "172.16.0.25",
"RouteDescription": ""
},
{
"RouteId": 14916,
"RouteItemId": "rti-22345678",
"DestinationCidrBlock": "10.254.64.0/24",
"GatewayType": "NORMAL_CVM",
"GatewayId": "172.16.0.26",
"RouteDescription": ""
},
{
"RouteId": 14917,
"RouteItemId": "rti-32345678",
"DestinationCidrBlock": "10.254.100.0/24",
"GatewayType": "NORMAL_CVM",
"GatewayId": "172.16.0.26",
"RouteDescription": "whoIam"
},
{
"RouteId": 16642,
"RouteItemId": "rti-42345678",
"DestinationCidrBlock": "10.200.0.0/18",
"GatewayType": "PEERCONNECTION",
"GatewayId": "pcx-4n2m594s",
"RouteDescription": "bb"
}
],
"Main": false,
"TagSet": [
{
"Value": "test",
"Key": "test"
}
],
"LocalCidrForCcn": [
{
"Cidr": "10.1.0.0/16",
"PublishedToVbc": true
}
```

```

}
],
"CreateTime": "2017-06-30 19:52:03"
}
],
"TotalCount": 16,
"RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
}
}
    
```

## Example2 Querying the list of route tables bound with the specified tag

This example shows you how to query the list of route tables bound with the specified tag.

### Input Example

```

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

```

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

### Output Example

```

{
  "Response": {
    "RouteTableSet": [
      {
        "VpcId": "vpc-2at5y1pn",
        "RouteTableId": "rtb-l2h8d7c2",
        "RouteTableName": "TestRouteTable",
        "AssociationSet": [],
        "RouteSet": [
            
```



```
{
  "RouteId": 14915,
  "RouteItemId": "rti-12345678",
  "DestinationCidrBlock": "169.254.64.0/23",
  "GatewayType": "NORMAL_CVM",
  "GatewayId": "172.16.0.25",
  "RouteDescription": ""
},
{
  "RouteId": 14916,
  "RouteItemId": "rti-22345678",
  "DestinationCidrBlock": "10.254.64.0/24",
  "GatewayType": "NORMAL_CVM",
  "GatewayId": "172.16.0.26",
  "RouteDescription": ""
},
{
  "RouteId": 14917,
  "RouteItemId": "rti-32345678",
  "DestinationCidrBlock": "10.254.100.0/24",
  "GatewayType": "NORMAL_CVM",
  "GatewayId": "172.16.0.26",
  "RouteDescription": "whoIam"
},
{
  "RouteId": 16642,
  "RouteItemId": "rti-42345678",
  "DestinationCidrBlock": "10.200.0.0/18",
  "GatewayType": "PEERCONNECTION",
  "GatewayId": "pcx-4n2m594s",
  "RouteDescription": "bb"
}
],
"TagSet": [
  {
    "Key": "city",
    "Value": "shanghai"
  }
],
"LocalCidrForCcn": [
  {
    "Cidr": "10.1.0.0/16",
    "PublishedToVbc": true
  }
],
"Main": false,
"CreatedTime": "2017-06-30 19:52:03"
```

```

}
],
"TotalCount": 16,
"RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
}
}

```

## 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
InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.

InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# ReplaceRoutes

最近更新时间：2023-05-19 17:19:00

## 1. API Description

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

This API (ReplaceRoutes) is used to modify a specified routing policy by its ID (RouteId). Batch modification is supported.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ReplaceRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
RouteTableId	Yes	String	The route table instance ID, such as <code>rtb-azd4dt1c</code> .
Routes.N	Yes	Array of <a href="#">Route</a>	Routing policy object. The routing policy ID (RouteId) must be specified.

## 3. Output Parameters

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

Name		
OldRouteSet	Array of <a href="#">Route</a>	Old routing policy
NewRouteSet	Array of <a href="#">Route</a>	New routing policy
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Replacing a route

This example shows you how to replace a route.

#### Input Example

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

{
  "RouteTableId": "rtb-n0yejvje",
  "Routes": [
    {
      "RouteId": 17125,
      "DestinationCidrBlock": "192.168.0.0/16",
      "GatewayType": "NORMAL_CVM",
      "GatewayId": "172.16.16.37",
      "RouteDescription": "abc",
      "Enabled": true,
      "RouteType": "abc",
      "RouteTableId": "abc",
      "DestinationIpv6CidrBlock": "abc",
      "RouteItemId": "abc",
      "PublishedToVbc": true,
      "CreatedTime": "2020-09-22 00:00:00"
    }
  ]
}
```

## Output Example

```
{
  "Response": {
    "NewRouteSet": [
      {
        "DestinationCidrBlock": "172.16.16.37/22",
        "RouteTableId": "rtb-n0yejvje",
        "RouteDescription": "",
        "GatewayType": "NORMAL_CVM",
        "GatewayId": "pcx-n9vkqrtm"
      }
    ],
    "RequestId": "3f934a21-2786-44af-a421-38ee6c6e1fae",
    "OldRouteSet": [
      {
        "DestinationCidrBlock": "172.16.16.37/21",
        "RouteTableId": "rtb-n0yejvje",
        "RouteDescription": "",
        "GatewayType": "PEERCONNECTION",
        "GatewayId": "pcx-n9vkqrk"
      }
    ]
  }
}
```

## 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	Incorrect parameter value.
InvalidParameterValue.CidrNotInPeerVpc	The destination IP address range is not within the CIDR range of the the customer VPC.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.VpcCidrConflict	Destination IP address range conflicts with CIDR of the current VPC.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.CdcSubnetNotSupportUnLocalGateway	CDC subnet can only create a route to the local gateway.
UnsupportedOperation.ConflictWithDockerRoute	The IP range overlaps with that of the TKE container under the VPC.
UnsupportedOperation.Ecmp	ECMP is not supported.
UnsupportedOperation.NormalSubnetNotSupportLocalGateway	The specified subnet does not support creating a route to the local gateway.
UnsupportedOperation.RecordNotExists	The record does not exist.
UnsupportedOperation.SystemRoute	System route. Operation is prohibited.

# ModifyRouteTableAttribute

最近更新时间：2023-07-11 17:48:34

## 1. API Description

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

This API (ModifyRouteTableAttribute) is used to modify the attributes of a route table.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyRouteTableAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
RouteTableId	Yes	String	The route table instance ID, such as <code>rtb-azd4dt1c</code> .
RouteTableName	Yes	String	Route table name.

## 3. Output Parameters

Parameter Name	Type	Description



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

## 4. Example

### Example1 Modifying route table attributes

This example shows you how to modify attributes of a route table.

#### Input Example

```
https://vpc.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

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

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# ReplaceRouteTableAssociation

最近更新时间：2023-05-17 17:37:55

## 1. API Description

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

This API (ReplaceRouteTableAssociation) is used to modify the route table associated with a subnet.

- A subnet can only be associated with one route table.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ReplaceRouteTableAssociation.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SubnetId	Yes	String	Subnet instance ID, such as <code>subnet-3x51f5q0</code> . This can be queried using the DescribeSubnets API.
RouteTableId	Yes	String	The route table instance ID, such as <code>rtb-azd4dt1c</code> .

## 3. Output Parameters

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

## 4. Example

### Example1 Replacing the associated route table

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ReplaceRouteTableAssociation
&Version=2017-03-12
&RouteTableId=rtb-n0yejvje
&SubnetId=subnet-q2079ils
&<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 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

# CreateRouteTable

最近更新时间：2023-08-23 14:11:19

## 1. API Description

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

This API is used to create a route table.

- After the VPC instance has been created, the system creates a default route table with which all newly created subnets will be associated. By default, you can use this route table to manage your routing policies. If you have multiple routing policies, you can call the API for creating route tables to create more route tables to manage these routing policies.
- You can bind a tag when creating a route table. The tag list in the response indicates the tags that have been successfully added.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateRouteTable.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The ID of the VPC instance to be operated on. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.

RouteTableName	Yes	String	The route table name. The maximum length is 60 characters.
Tags.N	No	Array of Tag	Bound tags, such as [{"Key": "city", "Value": "shanghai"}].

### 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 a route table

This example shows you how to create a route table.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateRouteTable
&RouteTableName=TestRouteTable
&VpcId=vpc-2at5y1pn
&Tags.0.Key=city
&Tags.0.Value=shanghai
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "RouteTable": {
      "RouteTableId": "rtb-azd4dt1c",
      "VpcId": "vpc-2at5y1pn",
      "RouteTableName": "TestRouteTable",
      "AssociationSet": [],
      "RouteSet": [],
```

```
"Main": false,
"LocalCidrForCcn": [
  {
    "Cidr": "10.1.0.0/24",
    "PublishedToVbc": true
  }
],
"TagSet": [
  {
    "Key": "city",
    "Value": "shanghai"
  }
]
}
}
}
```

## 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](#).

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Error Code	Description
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.

LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# ResetRoutes

最近更新时间：2023-05-19 17:19:00

## 1. API Description

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

This API (ResetRoutes) is used to reset the name of a route table and all its routing policies.

Note: When this API is called, all routing policies in the current route table are deleted before new routing policies are saved, which may incur network interruption.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ResetRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
RouteTableId	Yes	String	The route table instance ID, such as <code>rtb-azd4dt1c</code> .
RouteTableName	Yes	String	The route table name. The maximum length is 60 characters.
Routes.N	Yes	Array of	Routing policy.

Route

### 3. Output Parameters

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

### 4. Example

#### Example1 Resetting the route table name and routes

This example shows you how to reset a route table name and routes.

#### Input Example

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

{
  "RouteTableId": "rtb-n0yejvje",
  "RouteTableName": "TEST",
  "Routes": [
    {
      "RouteId": 1,
      "DestinationCidrBlock": "192.168.0.0/16",
      "GatewayType": "NORMAL_CVM",
      "GatewayId": "172.16.16.37",
      "RouteDescription": "abc",
      "Enabled": true
    }
  ]
}
```

#### 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CidrNotInPeerVpc	The destination IP address range is not within the CIDR range of the the customer VPC.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.

InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
InvalidParameterValue.VpcCidrConflict	Destination IP address range conflicts with CIDR of the current VPC.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.Ecmp	ECMP is not supported.
UnsupportedOperation.SystemRoute	System route. Operation is prohibited.

# DeleteRouteTable

最近更新时间：2023-07-11 17:48:35

## 1. API Description

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

This API is used to delete a route table.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteRouteTable.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
RouteTableId	Yes	String	The route table instance ID, such as <code>rtb-azd4dt1c</code> .

## 3. Output Parameters

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

## 4. Example

### Example1 Deleting a route table

This example shows you how to delete a route table.

#### Input Example

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

{
  "RouteTableId": "rtb-azd4dt1c"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.DelDefaultRoute	Unable to delete: This is the default route table.
UnsupportedOperation.DelRouteWithSubnet	Unable to delete: This is a route table associated with a subnet.
UnsupportedOperation.NotSupportDeleteDefaultRouteTable	The default route table cannot be deleted.
UnsupportedOperation.RouteTableHasSubnetRule	The routing table is bound to a subnet.

# CreateRoutes

最近更新时间：2023-05-19 17:19:01

## 1. API Description

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

This API is used to create routes.

- You can batch add routes to a specified route table.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
RouteTableId	Yes	String	Route table instance ID.
Routes.N	Yes	Array of <a href="#">Route</a>	Routing policy object.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of newly added instances.
RouteTableSet	Array of <a href="#">RouteTable</a>	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 a route

This example shows you how to create routes.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateRoutes
&RouteTableId=rtb-n0yejvje
&Routes.0.DestinationCidrBlock=192.168.0.0/16
&Routes.0.GatewayType=NORMAL_CVM
&Routes.0.GatewayId=172.16.16.37
&Routes.0.RouteDescription=TEST-CVM-ROUTE
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RouteTableSet": [
      {
        "RouteSet": [
          {
            "CreatedTime": "2020-09-22 00:00:00",
            "DestinationCidrBlock": "192.168.0.0/16",
            "RouteTableId": "rtb-n0yejvje",
            "RouteItemId": "rti-psm73tvu",
            "RouteDescription": "erty",
```

```
"Enabled": true,
"RouteId": 1,
"GatewayType": "NORMAL_CVM",
"GatewayId": "172.16.16.37"
},
"RouteTableId": "rtb-n0yejvje",
"VpcId": "vpc-4cugx77a",
"RouteTableName": "TEST",
"TagSet": [
{
"Value": "test",
"Key": "ee"
}
],
"CreatedTime": "2020-09-22 00:00:00",
"AssociationSet": [
{
"SubnetId": "subnet-1234derf",
"RouteTableId": "rtb-n0yejvje"
}
],
"Main": false,
"LocalCidrForCcn": [
{
"Cidr": "10.0.0.0/16",
"PublishedToVbc": true
}
]
},
"RequestId": "a949ecd8-a223-4b96-8537-a8a68a5ba47a"
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CidrNotInPeerVpc	The destination IP address range is not within the CIDR range of the the customer VPC.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.VpcCidrConflict	Destination IP address range conflicts with CIDR of the current VPC.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.CdcSubnetNotSupportUnLocalGateway	CDC subnet can only create a route to the local gateway.
UnsupportedOperation.ConflictWithDockerRoute	The IP range overlaps with that of the TKE container under the VPC.

UnsupportedOperation.Ecmp	ECMP is not supported.
UnsupportedOperation.EcmpWithCcnRoute	Form an ECMP with the CCN route.
UnsupportedOperation.EcmpWithUserRoute	Form an ECMP with the user's custom routes.
UnsupportedOperation.NormalSubnetNotSupportLocalGateway	The specified subnet does not support creating a route to the local gateway.
UnsupportedOperation.SystemRoute	System route. Operation is prohibited.

# DeleteRoutes

最近更新时间：2023-05-19 17:19:00

## 1. API Description

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

This API (DeleteRoutes) is used to delete routing policies in batches from a route table.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
RouteTableId	Yes	String	Route table instance ID.
Routes.N	Yes	Array of <a href="#">Route</a>	Routing policy object. Only the <code>RouteId</code> field is required when deleting a routing policy.

## 3. Output Parameters

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

RouteSet	Array of <a href="#">Route</a>	Details of the routing policy that has been deleted.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting routes from a route table

This example shows you how to delete routes from a route table.

#### Input Example

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

{
  "RouteTableId": "rtb-n0yejvje",
  "Routes": [
    {
      "RouteId": 1,
      "DestinationCidrBlock": "192.241.0.0/24",
      "GatewayType": "EIP",
      "GatewayId": "vpc-pymolayx",
      "RouteDescription": "TEST",
      "Enabled": true,
      "RouteType": "USER",
      "RouteTableId": "rtb-n0yejvje",
      "DestinationIpv6CidrBlock": "201::/16",
      "RouteItemId": "rti-pbta2ruf",
      "PublishedToVbc": true,
      "CreatedTime": "2020-09-22 00:00:00"
    }
  ]
}
```

#### Output Example

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



```
"RouteSet": [  
  {  
    "RouteId": 1,  
    "DestinationCidrBlock": "192.241.0.0/24",  
    "GatewayType": "EIP",  
    "GatewayId": "vpc-pymolayx",  
    "RouteDescription": "TEST",  
    "Enabled": true,  
    "RouteType": "USER",  
    "RouteTableId": "rtb-n0yejvje",  
    "DestinationIpv6CidrBlock": "201::/16",  
    "RouteItemId": "rti-pbta2ruf",  
    "PublishedToVbc": true,  
    "CreatedTime": "2020-09-22 00:00:00"  
  },  
  {  
    "RequestId": "10098418-f013-4d3e-855b-e086f0544b44"  
  }  
]
```

## 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
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation.DisabledNotifyCcn	The specified routing policy cannot be re-published to CCN. Please first withdraw it from CCN.
UnsupportedOperation.SystemRoute	System route. Operation is prohibited.

# WithdrawNotifyRoutes

最近更新时间：2023-08-23 14:11:18

## 1. API Description

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

This API is used to withdraw a route from CCN.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: WithdrawNotifyRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
RouteTableId	Yes	String	The unique ID of the route table
RouteItemIds.N	Yes	Array of String	The unique ID of the routing policy

## 3. Output Parameters

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

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

## 4. Example

### Example1 Withdrawing a route from CCN

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=WithdrawNotifyRoutes
&RouteTableId=rtb-9wzwlhnc
&RouteItemIds.0=rti-i8bap903
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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
InternalError	An internal error occurred.
InternalServerError	Internal error.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidRouteId.NotFound	Invalid RouteId.
InvalidRouteTableId.Malformed	Invalid route table. The route table ID is invalid.
InvalidRouteTableId.NotFound	Invalid route table. The VPC resource does not exist. Please check and enter the correct resource information.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.NotifyCcn	The specified routing policy cannot be published to or withdrawn from CCN.
UnsupportedOperation.SystemRoute	System route. Operation is prohibited.

# NotifyRoutes

最近更新时间：2023-08-23 14:11:18

## 1. API Description

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

This API is used to publish a route to CCN. This can also be done by clicking "Publish to CCN" in the operation column on the page of route table list.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: NotifyRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
RouteTableId	Yes	String	The unique ID of the route table
RouteItemIds.N	Yes	Array of String	The unique ID of the route

## 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 Publishing a route to CCN

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=NotifyRoutes
&RouteTableId=rtb-9wzwlhnc
&RouteItemIds.0=rtd-i8bap903
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 5. Developer Resources

### SDK

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError	An internal error occurred.
InternalServerError	Internal error.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidRouteId.NotFound	Invalid RouteId.
InvalidRouteTableId.Malformed	Invalid route table. The route table ID is invalid.
InvalidRouteTableId.NotFound	Invalid route table. The VPC resource does not exist. Please check and enter the correct resource information.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AssociatedVpcOfCcnHadNatRoute	The NAT gateway route already exists in another VPC added to the CCN instance.
UnsupportedOperation.CcnNotAttached	The instance is not associated with a CCN.
UnsupportedOperation.InvalidStatusNotifyCcn	The current status of the route does not support publishing to CCN. Please retry later.
UnsupportedOperation.NotifyCcn	The specified routing policy cannot be published to or withdrawn from CCN.
UnsupportedOperation.SystemRoute	System route. Operation is prohibited.



# EIP APIs

## AllocateAddresses

最近更新时间：2023-08-23 14:11:35

### 1. API Description

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

This API is used to apply for one or more [Elastic IP Addresses](#) (EIPs for short).

- An EIP is a static IP address that is dedicated for dynamic cloud computing. You can quickly re-map an EIP to another instance under your account to protect against instance failures.
- Your EIP is associated with your Tencent Cloud account rather than an instance. It remains associated with your Tencent Cloud account until you choose to explicitly release it or your account is in arrears for more than 24 hours.
- The maximum number of EIPs that can be applied for a Tencent Cloud account in each region is restricted. For more information, see [EIP Product Introduction](#). You can get the quota information through the DescribeAddressQuota API.

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

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AllocateAddresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not

			required for this API.
AddressCount	No	Integer	The number of EIPs. Default: 1.
InternetServiceProvider	No	String	<p>The EIP line type. Default: BGP.</p> <ul style="list-style-type: none"> <li>For a user who has activated the static single-line IP allowlist, possible values are <ul style="list-style-type: none"> <li>CMCC: China Mobile</li> <li>CTCC: China Telecom</li> <li>CUCC: China Unicom</li> </ul> </li> </ul> <p>Note: Only certain regions support static single-line IP addresses.</p>
InternetChargeType	No	String	<p>The EIP billing method.</p> <ul style="list-style-type: none"> <li>For bill-by-IP account beta users, valid values: <ul style="list-style-type: none"> <li>BANDWIDTH_PACKAGE: paid by the <a href="#">bandwidth package</a> (who must also be bandwidth package beta users)</li> <li>BANDWIDTH_POSTPAID_BY_HOUR: billed by hourly bandwidth on a pay-as-you-go basis</li> <li>BANDWIDTH_PREPAID_BY_MONTH: monthly bandwidth subscription</li> <li>TRAFFIC_POSTPAID_BY_HOUR: billed by hourly traffic on a pay-as-you-go basis</li> </ul> </li> </ul> <p>Default value: TRAFFIC_POSTPAID_BY_HOUR</p> <ul style="list-style-type: none"> <li>If you are not a bill-by-IP account beta user, the EIP billing is the same as that of the instance bound to the EIP. Therefore you do not need to pass in this parameter.</li> </ul>
InternetMaxBandwidthOut	No	Integer	<p>The EIP outbound bandwidth cap, in Mbps</p> <ul style="list-style-type: none"> <li>For bill-by-IP account beta users, the bandwidth cap range is determined by the EIP billing mode. <ul style="list-style-type: none"> <li>BANDWIDTH_PACKAGE : 1 Mbps to 2000 Mbps</li> <li>BANDWIDTH_POSTPAID_BY_HOUR : 1 Mbps to 100 Mbps</li> <li>BANDWIDTH_PREPAID_BY_MONTH : 1 Mbps to 200 Mbps</li> <li>TRAFFIC_POSTPAID_BY_HOUR : 1 Mbps to 100 Mbps</li> </ul> </li> </ul>

			<p>Default value: 1 Mbps</p> <ul style="list-style-type: none"> <li>If you are not a bill-by-IP account beta user, the EIP outbound bandwidth cap is subject to the bandwidth cap of the instance bound to the EIP. Therefore, you do not need to pass in this parameter.</li> </ul>
AddressChargePrepaid	No	<a href="#">AddressChargePrepaid</a>	A required billing parameter for an EIP billed by monthly bandwidth subscription. For EIP using other billing modes, it can be ignored
AddressType	No	String	<p>EIP type. Default value: EIP.</p> <ul style="list-style-type: none"> <li>For beta users of AIA, the value can be: <ul style="list-style-type: none"> <li><code>AnycastEIP</code> : an AIA IP address. For more information, see <a href="#">Anycast Internet Acceleration</a>. Note: Anycast EIPs are supported only in partial regions.</li> </ul> </li> <li>For beta users of dedicated IP, the value can be: <ul style="list-style-type: none"> <li><code>HighQualityEIP</code> : Dedicated IP. Note that dedicated IPs are only available in partial regions.</li> </ul> </li> <li>For beta users of Anti-DDoS IP, the value can be: <ul style="list-style-type: none"> <li><code>AntiDDoSEIP</code> : Anti-DDoS EIP. Note that Anti-DDoS IPs are only available in partial regions.</li> </ul> </li> </ul>
AnycastZone	No	String	<p>Anycast publishing region</p> <ul style="list-style-type: none"> <li>Valid for users who have activated AIA. Values: <ul style="list-style-type: none"> <li><code>ANYCAST_ZONE_GLOBAL</code>: global publishing region</li> <li><code>ANYCAST_ZONE_OVERSEAS</code>: overseas publishing region</li> <li><b>[Disused]</b> <code>ANYCAST_ZONE_A</code>: publishing region A (updated to <code>ANYCAST_ZONE_GLOBAL</code>)</li> <li><b>[Disused]</b> <code>ANYCAST_ZONE_B</code>: publishing region B (updated to <code>ANYCAST_ZONE_GLOBAL</code>)</li> </ul> </li> </ul> <p>Default: <code>ANYCAST_ZONE_OVERSEAS</code></p>
ApplicableForCLB	No	Boolean	<b>[Disused]</b>

			<p>Whether the Anycast EIP can be bound to CLB instances.</p> <ul style="list-style-type: none"> <li>Valid for users who have activated the A Values: <ul style="list-style-type: none"> <li>TRUE: the Anycast EIP can be bound to CLB instances.</li> <li>FALSE: the Anycast EIP can be bound to CVMs, NAT gateways, and HA VIP</li> </ul> </li> </ul> <p>Default: FALSE.</p>
Tags.N	No	Array of <a href="#">Tag</a>	List of tags to be bound.
BandwidthPackageId	No	String	<p>The unique ID of a BGP bandwidth package. If you configure this parameter and set <code>InternetChargeType</code> as <code>BANDWIDTH_PACKAGE</code>, the new EIP is added to this package and billed by the bandwidth package mode.</p>
AddressName	No	String	<p>EIP name, which is the custom EIP name given by the user when applying for the EIP. Default: not named.</p>
Egress	No	String	<p>Network egress. It defaults to <code>center_egress1</code>.</p>
AntiDDoSPackageId	No	String	<p>Anti-DDoS service package ID. This is required when you want to request an <code>u200d</code> Anti-DDoS IP.</p>
ClientToken	No	String	<p>A string used to ensure the idempotency of the request. Generate a value based on your client. This can ensure that the value is unique for different requests. It only supports ASCII characters and can contain up to 64 characters.</p>

### 3. Output Parameters

Parameter Name	Type	Description
AddressSet	Array of String	List of the unique IDs of the requested EIPs.

TaskId	String	The Async task ID. You can use the <a href="#">DescribeTaskResult</a> 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 an AIA IP

This example shows you how to create an Anycast Internet Acceleration (AIA) IP. This is only available to beta users.

#### Input Example

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

{
  "AddressCount": "1",
  "AddressType": "AnycastEIP"
}
```

#### Output Example

```
{
  "Response": {
    "AddressSet": [
      "eip-m44ku5d2"
    ],
    "TaskId": "61531428",
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

### Example2 Creating a regular IP

This example shows you how to create a regular IP.

#### Input Example

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

```
{
  "AddressCount": "1"
}
```

### Output Example

```
{
  "Response": {
    "AddressSet": [
      "eip-m44ku5d2"
    ],
    "TaskId": "61531421",
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

### Example3 Creating a static single-line IP address

This example shows you how to create a static single-line IP, provided that you are a static single-line IP beta user.

### Input Example

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

{
  "AddressCount": "1",
  "InternetServiceProvider": "CTCC"
}
```

### Output Example

```
{
  "Response": {
    "AddressSet": [
```

```
"eip-m44ku5d2"  
],  
"TaskId": "61531429",  
"RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"  
}  
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AddressQuotaLimitExceeded	The account quota is reached. Each Tencent Cloud account can create up to 20 EIPs in each region.
AddressQuotaLimitExceeded.DailyAllocate	The maximum number of requests is reached. The maximum number of requests made by a Tencent Cloud account per day in each region equals to two times the quota.

FailedOperation.BalanceInsufficient	Insufficient account balance.
FailedOperation.InvalidRegion	Unsupported region.
InvalidAccount.NotSupported	This account is not supported.
InvalidAddressId.Blocked	The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.
InvalidParameterConflict	The two parameters cannot be specified at the same time, nor exist concurrently. EIP can only be bound to the instances or the specified private IPs of the specified ENIs.
InvalidParameterValue.AddressAttacked	Attacked IP address.
InvalidParameterValue.AddressIpNotAvailable	The IP address is not available now.
InvalidParameterValue.BandwidthOutOfRange	The bandwidth exceeds the limit.
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.BandwidthPackageNotFound	Failed to query the bandwidth package
InvalidParameterValue.BandwidthTooSmall	The selected bandwidth is smaller than the minimum permissible range.
InvalidParameterValue.Combination	Invalid input parameters
InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.InvalidDedicatedClusterId	Invalid DedicatedClusterId.
InvalidParameterValue.InvalidTag	This Tag is invalid.
InvalidParameterValue.MixedAddressIpSetType	A request cannot contain IP addresses with different cluster types.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.ResourceIdMalformed	The resource ID is incorrect.
InvalidParameterValue.ResourceNotSupport	The resource does not support this operation.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.UnavailableZone	This availability zone is unavailable.



LimitExceeded.BandwidthPackageQuota	Exceeded the upper limit of the bandwidth package quota.
LimitExceeded.BandwidthPackageResourceQuota	Number of resources added to this bandwidth package reached the upper limit.
LimitExceeded.MonthlyAddressRecoveryQuota	Ran out of the monthly quota of chances to retrieve IPs.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
ResourceInsufficient	Insufficient resources.
UnauthorizedOperation.AnycastEip	No permission to apply for AnycastEip resources.
UnauthorizedOperation.InvalidAccount	Unauthorized user.
UnsupportedOperation.ActionNotFound	The port does not exist.
UnsupportedOperation.BandwidthPackageIdNotSupported	This bandwidth package does not support this operation.
UnsupportedOperation.InstanceStateNotSupported	This operation is not supported by the status of the instance bound with the IP address.
UnsupportedOperation.InvalidAction	Unsupported operation.
UnsupportedOperation.OfflineChargeType	This billing mode is disused. Please try another billing mode.
UnsupportedOperation.UnsupportedRegion	The service is not available in this country/region.

# AssociateAddress

最近更新时间：2023-08-23 14:11:35

## 1. API Description

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

This API is used to bind an [Elastic IP](#) (EIP for short) to the specified private IP of an instance or ENI.

- Binding an EIP to a CVM instance is actually binding the EIP to the primary private IP of the primary ENI on the CVM instance.
- When an EIP is bound, the public IP previously bound to the CVM instance will be unbound and released automatically.
- To bind another EIP to the private IP of the specified ENI, you must first unbind the EIP.
- To bind an EIP to a NAT Gateway, use the API [AssociateNatGatewayAddress](#).
- An EIP cannot be bound if it's overdue or blocked
- Only EIP in the `UNBIND` status can be bound.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AssociateAddress.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressId	Yes	String	The unique ID of the EIP, such as <code>eip-11112222</code> .

InstanceId	No	String	The ID of the instance to be bound, such as <code>ins-11112222</code> , <code>lb-11112222</code> . You can query the instance ID by logging into the <a href="#">Console</a> . You can also obtain the parameter value from the <code>InstanceId</code> field in the returned result of <a href="#">DescribeInstances</a> API.
NetworkInterfaceId	No	String	The ID of the ENI to be bonud, such as <code>eni-11112222</code> . <code>NetworkInterfaceId</code> and <code>InstanceId</code> cannot be specified at the same time. You can query the ENI ID by logging into the <a href="#">Console</a> . You can also obtain the parameter value from the <code>networkInterfaceId</code> field in the returned result of <a href="#">DescribeNetworkInterfaces</a> API.
PrivateIpAddress	No	String	The private IP to be bound. If you specify <code>NetworkInterfaceId</code> , then you must also specify <code>PrivateIpAddress</code> , indicating the EIP is bound to the specified private IP of the specified ENI. At the same time, you must ensure the specified <code>PrivateIpAddress</code> is a private IP on the <code>NetworkInterfaceId</code> . You can query the private IP of the specified ENI by logging into the <a href="#">Console</a> . You can also obtain the parameter value from the <code>privateIpAddress</code> field in the returned result of <a href="#">DescribeNetworkInterfaces</a> API.
EipDirectConnection	No	Boolean	Specify whether to configure direct access when binding EIPs. For details, see <a href="#">EIP Direct Access</a> . Valid values: <code>True</code> and <code>False</code> (default). This parameter can be set to <code>True</code> when binding EIPs to a CVM instance or EKS cluster. It is in a beta test. To try it out, please <a href="#">submit a ticket</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TaskId	String	The async task ID. You can use the <a href="#">DescribeTaskResult</a> 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 an EIP with an instance

This example shows you how to bind an EIP to an instance.

#### Input Example

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

{
  "InstanceId": "ins-1bmpb9tu",
  "AddressId": "eip-ek0cdz1g"
}
```

#### Output Example

```
{
  "Response": {
    "TaskId": "50121411",
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

## 5. Developer Resources

### SDK

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

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for 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.AddressEniInfoNotFound	The ENI information is not available in this address.
FailedOperation.TaskFailed	Task execution failed.
InvalidAccount.NotSupported	This account is not supported.
InvalidAddressId.Blocked	The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidInstanceId.AlreadyBindEip	The specified instance has already been bound to an EIP. You must unbind the current EIP first before binding another EIP.
InvalidInstanceId.NotFound	Invalid instance ID. The specified instance ID does not exist.
InvalidNetworkInterfaceId.NotFound	The specified NetworkInterfaceId does not exist or the specified PrivateIpAddress is not on the NetworkInterfaceId.
InvalidParameterConflict	The two parameters cannot be specified at the same time, nor exist concurrently. EIP can only be bound to the instances or the specified private IPs of the specified ENIs.
InvalidParameterValue.AddressIdMalformed	This IP address ID is invalid.
InvalidParameterValue.AddressNotApplicable	An EIP cannot be bound with this type of instance.
InvalidParameterValue.AddressNotFound	Unable to find the address.

InvalidParameterValue.Combination	Invalid input parameters
InvalidParameterValue.InstanceDoesNotSupportAnycast	This instance does not support an Anycast EIP.
InvalidParameterValue.InstanceHasNoWanIP	The instance does not have a public IP.
InvalidParameterValue.InstanceHasWanIP	This instance already has a WanIP (public IP).
InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.InstanceNoWanIP	Request failed: this instance does not have a WanIP (public IP).
InvalidParameterValue.InstanceNormalPublicIpBlocked	Failed to bind: this IP is restricted
InvalidParameterValue.InstanceNotMatchAssociateEni	The ENI and the IP are bound with different instances.
InvalidParameterValue.InvalidInstanceInternetChargeType	This IP is applicable only for pay-as-you-go instances that billed by hourly traffic and instances with bandwidth package.
InvalidParameterValue.InvalidInstanceState	Operation failed: the status of the instance does not allow this operation.
InvalidParameterValue.LBAAlreadyBindEip	This CLB instance is already bound with an EIP.
InvalidParameterValue.MissingAssociateEntity	The bound instance is missing.
InvalidParameterValue.NetworkInterfaceNotFound	The network interface ID was not found. The private IP address may not be configured on the network interface.
InvalidParameterValue.ResourceNotSupport	The resource does not support this operation.
InvalidPrivateIpAddress.AlreadyBindEip	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.
LimitExceeded.InstanceAddressQuota	Exceeded the upper limit of the EIPs bound to the instance.
MissingParameter	Missing parameter.
OperationDenied.AddressInArrears	The specified public IP is isolated.
OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
UnsupportedOperation.ActionNotFound	The port does not exist.

UnsupportedOperation.AddressIpNotSupportInstance	The IP address bound with this instance does not support this operation
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.IncorrectAddressResourceType	This type of address does not support this operation.
UnsupportedOperation.InstanceStateNotSupported	This operation is not supported by the status of the instance bound with the IP address.
UnsupportedOperation.InvalidAction	Unsupported operation.
UnsupportedOperation.InvalidAddressInternetChargeType	This operation is not allowed under the network billing mode of the IP address.
UnsupportedOperation.IspNotSupported	This ISP does not support this operation.

# DescribeAddressQuota

最近更新时间：2023-08-23 14:11:34

## 1. API Description

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

This API (DescribeAddressQuota) is used to query the quota information of your [Elastic IP \(EIP\)](#) in the current region. For more information, see [EIP product introduction](#).

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeAddressQuota.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.

## 3. Output Parameters

Parameter Name	Type	Description
QuotaSet	Array of <a href="#">Quota</a>	The quota information of EIPs in an account.



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

This example shows you how to query the EIP quota.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeAddressQuota
&<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

## 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
InternalServerError	Internal error.
UnsupportedOperation	Unsupported operation.

# DescribeAddresses

最近更新时间：2023-08-23 14:11:34

## 1. API Description

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

This API (DescribeAddresses) is used to query the information of one or multiple [Elastic IPs](#).

- If the parameter is empty, a number (as specified by the `Limit`, the default value is 20) of EIPs 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	<a href="#">Common Params</a> . The value used for this API: DescribeAddresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressIds.N	No	Array of String	The list of unique IDs of EIPs in the format of <code>eip-11112222</code> . <code>AddressIds</code> and <code>Filters.address-id</code> cannot be specified at the same time.
Filters.N	No	Array of <a href="#">Filter</a>	Each request can have up to 10 <code>Filters</code> and 100 <code>Filter.Values</code> . Detailed filter conditions: <ul style="list-style-type: none"> <li><code>address-id</code> - String - Optional - Filter by unique EIP ID, such as <code>eip-11112222</code>.</li> </ul>

			<ul style="list-style-type: none"> <li>• address-name - String - Optional - Filter by EIP name. Fuzzy filtering is not supported.</li> <li>• address-ip - String - Optional - Filter by EIP address.</li> <li>• address-status - String - Optional - Filter by EIP status. Valid values: <code>CREATING</code> , <code>BINDING</code> , <code>BIND</code> , <code>UNBINDING</code> , <code>UNBIND</code> , <code>OFFLINING</code> , and <code>BIND_ENI</code> .</li> <li>• instance-id - String - Optional - Filter by the ID of the instance bound to the EIP, such as <code>ins-11112222</code> .</li> <li>• private-ip-address - String - Optional - Filter by the private IP address bound to the EIP.</li> <li>• network-interface-id - String - Optional - Filter by ID of the ENI bound to the EIP, such as <code>eni-11112222</code> .</li> <li>• is-arrears - String - Optional - Filter by the fact whether the EIP is overdue (TRUE: the EIP is overdue   FALSE: the billing status of the EIP is normal).</li> <li>• address-type - String - Optional - Filter by IP type. Valid values: <code>WanIP</code> , <code>EIP</code> , <code>AnycastEIP</code> , and <code>HighQualityEIP</code> . Default value: <code>EIP</code> .</li> <li>• address-isp - String - Optional - Filter by ISP type. Valid values: <code>BGP</code> , <code>CMCC</code> , <code>CUCC</code> , and <code>CTCC</code> .</li> <li>• dedicated-cluster-id - String - Optional - Filter by unique CDC ID, such as <code>cluster-11112222</code> .</li> <li>• tag-key - String - Optional - Filter by tag key.</li> <li>• tag-value - String - Optional - Filter by tag value.</li> <li>• tag:tag-key - String - Optional - Filter by tag key-value pair. Use a specific tag key to replace <code>tag-key</code> .</li> </ul>
Offset	No	Integer	The Offset. The default value is 0. For more information about <code>Offset</code> , see the relevant section in the API documentation.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , see the relevant section in the API documentation.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of EIPs meeting the condition.
AddressSet	Array of <a href="#">Address</a>	List of EIPs details.

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

## 4. Example

### Example1 Querying EIPs

This example shows you how to query EIPs.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeAddresses
&AddressIds.0=eip-hxlqja90
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "TotalCount": 0,
    "AddressSet": [
      {
        "AddressId": "eip-12345678",
        "AddressName": "abc",
        "AddressStatus": "UNBIND",
        "AddressIp": "34.3.4.5.6",
        "InstanceId": "ins-12345678",
        "CreatedTime": "2020-09-22T00:00:00+00:00",
        "NetworkInterfaceId": "eni-12345678",
        "PrivateAddressIp": "10.2.3.4",
        "IsArrears": true,
        "IsBlocked": true,
        "IsEipDirectConnection": true,
        "AddressType": "WanIp",
        "CascadeRelease": true,
        "EipAlgType": {
          "Ftp": true,
          "Sip": true
        },
        "InternetServiceProvider": "BGP",
        "LocalBgp": true,
        "Bandwidth": 1,
        "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
        "TagSet": [
```

```
{
  "Key": "abc",
  "Value": "abc"
},
{
  "DeadlineDate": "2020-09-22",
  "InstanceType": "abc"
},
{
  "RequestId": "abc"
}
}
```

## Example2 Querying public IPs

This example shows you how to query public IPs.

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeAddresses
&Filters.0.Name=address-type
&Filters.0.Values.0=WanIP
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "TotalCount": 0,
    "AddressSet": [
      {
        "AddressId": "eip-12345678",
        "AddressName": "abc",
        "AddressStatus": "UNBIND",
        "AddressIp": "34.3.4.5.6",
        "InstanceId": "ins-12345678",
        "CreatedTime": "2020-09-22T00:00:00+00:00",
        "NetworkInterfaceId": "eni-12345678",
        "PrivateAddressIp": "192.2.3.4",
        "IsArrears": true,
        "IsBlocked": true,
        "IsEipDirectConnection": true,
        "AddressType": "WanIp",
        "CascadeRelease": true,
        "EipAlgType": {
          "Ftp": true,

```

```
"Sip": true
},
"InternetServiceProvider": "abc",
"LocalBgp": true,
"Bandwidth": 1,
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"TagSet": [
{
"Key": "abc",
"Value": "abc"
}
],
"DeadlineDate": "2020-09-22",
"InstanceType": "abc"
},
"RequestId": "abc"
}
```

### Example3 Querying EIP information

This example shows you how to query EIP information.

#### Input Example

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

{}
```

#### Output Example

```
{
"Response": {
"TotalCount": 2,
"AddressSet": [
{
"AddressId": "eip-qhx8udkc",
"AddressName": "Unnamed",
"AddressIp": "1.14.91.34",
"AddressStatus": "UNBIND",
"AddressType": "EIP",
```

```
"InstanceId": "ins-wf123456",
"InstanceType": null,
"NetworkInterfaceId": "eni-12345678",
"PrivateAddressIp": "10.2.3.4",
"IsArrears": false,
"IsBlocked": false,
"IsEipDirectConnection": false,
"EipAlgType": {
  "Ftp": true,
  "Sip": true
},
"LocalBgp": false,
"CascadeRelease": false,
"CreatedTime": "2022-08-11T03:57:05Z",
"TagSet": [],
"InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
"Bandwidth": 1,
"DeadlineDate": null,
"InternetServiceProvider": "BGP"
},
{
  "AddressId": "eip-qygpzm9y",
  "AddressName": "Unnamed",
  "AddressIp": "1.14.90.212",
  "AddressStatus": "UNBIND",
  "AddressType": "EIP",
  "InstanceId": "ins-12345678",
  "InstanceType": null,
  "NetworkInterfaceId": "eni-12345678",
  "PrivateAddressIp": "10.3.4.5.6",
  "IsArrears": false,
  "IsBlocked": false,
  "IsEipDirectConnection": false,
  "EipAlgType": {
    "Ftp": true,
    "Sip": true
  },
  "LocalBgp": false,
  "CascadeRelease": false,
  "CreatedTime": "2022-08-11T03:47:03Z",
  "TagSet": [],
  "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR",
  "Bandwidth": 1,
  "DeadlineDate": null,
  "InternetServiceProvider": "BGP"
}
],
```



```
"RequestId": "4ead34c4-3112-40fe-bbde-2295eee9d664"
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InvalidParameter	A parameter error occurred.
InvalidParameter.InvalidFilter	The filter rule is invalid.
InvalidParameterValue.AddressIdMalformed	This IP address ID is invalid.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.NetworkInterfaceIdMalformed	Incorrect network interface ID.
InvalidParameterValue.ResourceIdMalformed	The resource ID is incorrect.

LimitExceeded.NumberOfFilters	Exceeded the character limit of a filter name.
UnsupportedOperation	Unsupported operation.

# DisassociateAddress

最近更新时间：2023-07-11 17:48:52

## 1. API Description

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

This API is used to unbind an [Elastic IP](#) (EIP for short).

- This API supports unbinding an EIP from CVM instances and ENIs.
- This API does not support unbinding an EIP from a NAT Gateway. To unbind an EIP from a NAT Gateway, use the [DisassociateNatGatewayAddress](#) API.
- Only EIPs in BIND or BIND\_ENI status can be unbound.
- Blocked EIPs cannot be unbound.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DisassociateAddress.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressId	Yes	String	The unique ID of the EIP, such as <code>eip-11112222</code> .

ReallocateNormalPublicIp	No	Boolean	<p>Whether a common public IP is assigned after the EIP is unbound. Value range:</p> <ul style="list-style-type: none"> <li>TRUE: Indicates that after the EIP is unbound, a common public IP is assigned.</li> <li>FALSE: Indicates that after the EIP is unbound, a common public IP is not assigned.</li> </ul> <p>Default value: FALSE.</p> <p>The parameter can be specified only under the following conditions:</p> <ul style="list-style-type: none"> <li>It can only be specified when you unbind an EIP from the primary private IP of the primary ENI.</li> <li>After an EIP is unbound, you can assign public IPs to an account up to 10 times per day. For more information, use the [DescribeAddressQuota] (<a href="https://intl.cloud.tencent.com/document/api/213/1378?from_cn_redirect=1">https://intl.cloud.tencent.com/document/api/213/1378?from_cn_redirect=1</a>) API.</li> </ul>
--------------------------	----	---------	--

### 3. Output Parameters

Parameter Name	Type	Description
TaskId	String	The async task ID. You can use the <a href="#">DescribeTaskResult</a> 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 an EIP

This example shows you how to unbind an EIP.

#### Input Example

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

```
{
  "AddressId": "eip-ek0cdz1g"
}
```

### Output Example

```
{
  "Response": {
    "TaskId": "61531411",
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

## 5. Developer Resources

### SDK

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

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

AddressQuotaLimitExceeded.DailyAllocate	The maximum number of requests is reached. The maximum number of requests made by a Tencent Cloud account per day in each region equals to two times the quota.
FailedOperation.AddressEniInfoNotFound	The ENI information is not available in this address.
FailedOperation.MasterEniNotFound	The instance's primary ENI is not found.
FailedOperation.TaskFailed	Task execution failed.
InvalidAddressId.Blocked	The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidAddressIdStatus.NotPermit	The specified EIP cannot be bound in current status. It can only be bound in UNBIND status.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.NotFound	Invalid instance ID. The specified instance ID does not exist.
InvalidParameter	A parameter error occurred.
InvalidParameterValue.AddressIdMalformed	This IP address ID is invalid.
InvalidParameterValue.AddressNotFound	Unable to find the address.
InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.OnlySupportedForMasterNetworkCard	This operation is only available for primary ENIs.
InvalidParameterValue.ResourceNotSupport	The resource does not support this operation.
OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
UnsupportedOperation.ActionNotFound	The port does not exist.
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.InstanceStateNotSupported	This operation is not supported by the status of the instance bound with the IP address.

UnsupportedOperation.InvalidAction	Unsupported operation.
------------------------------------	------------------------

# ModifyAddressAttribute

最近更新时间：2023-08-23 14:11:34

## 1. API Description

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

This API (ModifyAddressAttribute) is used to modify the name of an [Elastic IP](#).

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyAddressAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressId	Yes	String	The unique ID of the EIP, such as <code>eip-11112222</code> .
AddressName	No	String	The EIP name after modification. The maximum length is 20 characters.
EipDirectConnection	No	String	Whether the set EIP is a direct connection EIP. TRUE: yes. FALSE: no. Note that this parameter is available only to users who have activated the EIP direct connection function.

## 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 EIP name

This example shows you how to modify the name of an EIP

#### Input Example

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

{
  "AddressName": "test_eip",
  "AddressId": "eip-p2x6wxc0"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

## 5. Developer Resources

### SDK

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

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InvalidAddressId.Blocked	The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.AddressIdMalformed	This IP address ID is invalid.
InvalidParameterValue.AddressNotFound	Unable to find the address.
InvalidParameterValue.ResourceNotExisted	The resource is not associated with this bandwidth package.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.IncorrectAddressResourceType	This type of address does not support this operation.
UnsupportedOperation.ModifyAddressAttribute	The account does not support modifying this attribute of the public IP.



# ReleaseAddresses

最近更新时间：2023-08-23 14:11:33

## 1. API Description

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

This API (ReleaseAddresses) is used to release one or multiple [Elastic IPs](#).

- This operation is irreversible. Once you release an EIP, the IP address associated with the EIP no longer belongs to you.
- Only EIPs in UNBIND status can be released.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ReleaseAddresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressIds.N	Yes	Array of String	The unique ID list of the EIP. The unique ID of an EIP is as follows: <code>eip-11112222</code> .

## 3. Output Parameters

Parameter Name	Type	Description
TaskId	String	The async task ID. You can use the <a href="#">DescribeTaskResult</a> 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 EIP

- 

#### Input Example

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

{
  "AddressIds": [
    "eip-gzc5rgr2"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "TaskId": "12331420",
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

## 5. Developer Resources

### SDK

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
FailedOperation.TaskFailed	Task execution failed.
InvalidAddressId.Blocked	The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidAddressState	The operation cannot be performed on the specified EIP in current status.
InvalidParameterValue.AddressIdMalformed	This IP address ID is invalid.
InvalidParameterValue.AddressInternetChargeTypeConflict	The billing mode of this IP address conflicts with that of other IP addresses.
InvalidParameterValue.AddressNotFound	Unable to find the address.
InvalidParameterValue.AddressTypeConflict	Invalid IP address type
LimitExceeded.AccountReturnQuota	Ran out of the quota for returning under this account.

OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.UnpaidOrderAlreadyExists	Overdue payments are found under this account. Please complete the payment first.

# TransformAddress

最近更新时间：2023-08-23 14:11:33

## 1. API Description

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

This API is used to convert a common public IP into an [Elastic IP](#) (EIP for short).

- Tencent Cloud limits the number of times that a user can unbind EIPs and reassign public IPs in each region per day. For more information, see product introduction of [Elastic IP](#). The preceding quota can be obtained through the API [DescribeAddressQuota](#).

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: TransformAddress.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
InstanceId	Yes	String	The ID of the instance with a common public IP to be operated on, such as <code>ins-11112222</code> . You can query the instance ID by logging into the <a href="#">CVM console</a> . You can also obtain the parameter value from the <code>InstanceId</code> field in the returned result of the API <a href="#">DescribeInstances</a> .



### 3. Output Parameters

Parameter Name	Type	Description
TaskId	Integer	The async task ID. You can use the <a href="#">DescribeTaskResult</a> API to query the task status.
AddressId	String	The unique ID after converting to EIP
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Converting a public IP to an EIP

This example shows you how to convert a public IP to an EIP.

#### Input Example

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

{
  "InstanceId": "ins-3ea0qeu6"
}
```

#### Output Example

```
{
  "Response": {
    "AddressId": "eip-fk2gmm9s",
    "TaskId": 345732,
    "RequestId": "070889cb-a42a-40a0-ac50-293ef36e0dfc"
  }
}
```

## 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
AddressQuotaLimitExceeded	The account quota is reached. Each Tencent Cloud account can create up to 20 EIPs in each region.
AddressQuotaLimitExceeded.DailyAllocate	The maximum number of requests is reached. The maximum number of requests made by a Tencent Cloud account per day in each region equals to two times the quota.
FailedOperation.TaskFailed	Task execution failed.
InvalidAddressId.Blocked	The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.
InvalidInstance.NotSupported	This instance is not supported.

InvalidInstanceId.AlreadyBindEip	The specified instance has already been bound to an EIP. You must unbind the current EIP first before binding another EIP.
InvalidInstanceId.NotFound	Invalid instance ID. The specified instance ID does not exist.
InvalidParameterValue.InstanceHasNoWanIP	The instance does not have a public IP.
InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.InstanceNoWanIP	Request failed: this instance does not have a WanIP (public IP).
InvalidParameterValue.InvalidInstanceState	Operation failed: the status of the instance does not allow this operation.
LimitExceeded.MonthlyAddressRecoveryQuota	Ran out of the monthly quota of chances to retrieve IPs.
OperationDenied.AddressInArrears	The specified public IP is isolated.
OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.InvalidAddressInternetChargeType	This operation is not allowed under the network billing mode of the IP address.

# ModifyAddressesBandwidth

最近更新时间：2023-08-23 14:11:33

## 1. API Description

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

This API is used to adjust the bandwidth of [Elastic IP](#), including EIP billed on a pay-as-you-go, monthly subscription, and bandwidth package basis.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyAddressesBandwidth.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressIds.N	Yes	Array of String	List of EIP IDs, such as "eip-xxxx".
InternetMaxBandwidthOut	Yes	Integer	Target bandwidth value adjustment
StartTime	No	Timestamp	(Disused) The start time of the monthly bandwidth subscription
EndTime	No	Timestamp	(Disused) The end time of the monthly bandwidth

subscription

### 3. Output Parameters

Parameter Name	Type	Description
TaskId	String	The async task ID. You can use the <a href="#">DescribeTaskResult</a> 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 Adjusting the pay-as-you-go bandwidth

This example shows you how to adjust the pay-as-you-go bandwidth.

#### Input Example

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

{
  "InternetMaxBandwidthOut": "2",
  "AddressIds": [
    "eip-alfxy9c8"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "TaskId": "11531422",
    "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](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidParameterValue.AddressIdMalformed	This IP address ID is invalid.
InvalidParameterValue.AddressNotFound	Unable to find the address.
InvalidParameterValue.BandwidthOutOfRange	The bandwidth exceeds the limit.
InvalidParameterValue.BandwidthTooSmall	The selected bandwidth is smaller than the minimum permissible range.
InvalidParameterValue.InconsistentInstanceInternetChargeType	The billing mode of this instance is different from that of others.

InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.InstanceNoCalcIP	Request failed: this instance does not have a CalcIP (device IP).
InvalidParameterValue.InstanceNoWanIP	Request failed: this instance does not have a WanIP (public IP).
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.ResourceExpired	The resource has expired.
InvalidParameterValue.ResourceNotExisted	The resource is not associated with this bandwidth package.
InvalidParameterValue.ResourceNotSupport	The resource does not support this operation.
OperationDenied.AddressInArrears	The specified public IP is isolated.
OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
UnsupportedOperation.ActionNotFound	The port does not exist.
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.InstanceStateNotSupported	This operation is not supported by the status of the instance bound with the IP address.
UnsupportedOperation.UnpaidOrderAlreadyExists	Overdue payments are found under this account. Please complete the payment first.

# DescribeTaskResult

最近更新时间：2023-08-23 14:11:34

## 1. API Description

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

This API is used to query the EIP async job execution results.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeTaskResult.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
TaskId	No	Integer	Async task ID. Either TaskId or DealName must be entered.
DealName	No	String	Billing order No. Either TaskId or DealName must be entered.

## 3. Output Parameters

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



TaskId	Integer	Job ID
Result	String	The execution results, including <code>SUCCESS</code> , <code>FAILED</code> , and <code>RUNNING</code>
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying the execution result of an async task

This example shows you how to query the execution result of an async task.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeTaskResult
&TaskId=12566700
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "TaskId": 12566700,
    "Result": "SUCCESS",
    "RequestId": "f2e74569-c189-4396-80ab-1482134a1e52"
  }
}
```

## 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.TaskFailed	Task execution failed.
InternalServerError	Internal error.
InvalidParameter	A parameter error occurred.
MissingParameter	Missing parameter.

# ModifyAddressInternetChargeType

最近更新时间：2023-08-23 14:11:34

## 1. API Description

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

This API is used to adjust the network billing mode of an EIP. Please note that it's available to users whose network fees are billed on IPs but not CVMs.

- The network billing mode can be switched between `BANDWIDTH_PREPAID_BY_MONTH` and `TRAFFIC_POSTPAID_BY_HOUR`.
- The network billing mode for each EIP be changed for up to twice.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: <code>ModifyAddressInternetChargeType</code> .
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: <code>2017-03-12</code> .
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressId	Yes	String	Unique EIP ID, such as "eip-xxxx"
InternetChargeType	Yes	String	The target billing method. It can be

			<code>BANDWIDTH_PREPAID_BY_MONTH</code> or <code>TRAFFIC_POSTPAID_BY_HOUR</code>
InternetMaxBandwidthOut	Yes	Integer	The target bandwidth value
AddressChargePrepaid	No	<a href="#">AddressChargePrepaid</a>	Billing details of monthly-subscribed network bandwidth. This parameter is required if the target billing method is <code>BANDWIDTH_PREPAID_BY_MONTH</code> .

### 3. Output Parameters

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

### 4. Example

#### Example1 Modifying the billing mode of an EIP

This example shows you how to modify the billing mode of an EIP.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyAddressInternetChargeType
&AddressId=eip-fo00aojo
&InternetChargeType=TRAFFIC_POSTPAID_BY_HOUR
&InternetMaxBandwidthOut=5
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "a3524d83-9f3b-40ee-beb8-3a8144e7d125"
  }
}
```

## 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.BalanceInsufficient	Insufficient account balance.
InternalServerError	Internal error.
InvalidAccount.NotSupported	This account is not supported.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidAddressIdState.InArrears	The specified EIP is in arrears.
InvalidAddressState	The operation cannot be performed on the specified EIP in current status.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.AddressIdMalformed	This IP address ID is invalid.

InvalidParameterValue.AddressNotCalcIP	This IP address is not a CalcIP (device IP).
InvalidParameterValue.AddressNotFound	Unable to find the address.
InvalidParameterValue.InternetChargeTypeNotChanged	The network billing mode has not been changed.
InvalidParameterValue.Range	The parameter value is not in the specified range.
LimitExceeded	Quota limit is reached.
LimitExceeded.ModifyAddressInternetChargeTypeQuota	Ran out of the quota of chances to change the IP billing mode.
OperationDenied.AddressInArrears	The specified public IP is isolated.
OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.InvalidAction	Unsupported operation.
UnsupportedOperation.InvalidAddressInternetChargeType	This operation is not allowed under the network billing mode of the IP address.
UnsupportedOperation.NatNotSupported	The NAT instance does not support this operation.
UnsupportedOperation.UnpaidOrderAlreadyExists	Overdue payments are found under this account. Please complete the payment first.

# ReturnNormalAddresses

最近更新时间：2023-08-23 14:11:33

## 1. API Description

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

This API is used to unbind and release public IPs.

Note: Starting from Dec 15, 2022, CAM authorization is required for a sub-account to call this API. For more details, see [Authorization Guide](#).

A maximum of 2 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ReturnNormalAddresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressIps.N	No	Array of String	EIP addresses. Example: 101.35.139.183

## 3. Output Parameters

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

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

## 4. Example

### Example1 Unbinds and releases public IPs

#### Input Example

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

{
  "AddressIps": [
    "101.35.139.183"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "5957a632-12b2-4051-b103-ecd77145ecbd"
  }
}
```

## 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
InvalidParameterValue.AddressIpsNotFound	Failed to query the address.
InvalidParameterValue.Illegal	
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
UnsupportedOperation.NotSupportedAddressIpsChargeType	This type of addresses cannot be released.

# Highly Available Virtual IP APIs

## ModifyHaVipAttribute

最近更新时间：2023-05-17 17:38:13

### 1. API Description

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

This API (ModifyHaVipAttribute) is used to modify HAVIP 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	<a href="#">Common Params</a> . The value used for this API: ModifyHaVipAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
HaVipId	Yes	String	The unique ID of the HAVIP, such as <code>havip-9o233uri</code> .
HaVipName	Yes	String	HAVIP can be named freely, but the maximum length is 60 characters.

### 3. Output Parameters

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

## 4. Example

### Example1 Modifying the HAVIP name

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyHaVipAttribute
&HaVipId=havip-9o233uri
&HaVipName=new+name
&<Common request parameters>
```

#### 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](#)
- [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	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# HaVipDisassociateAddressIp

最近更新时间：2023-07-11 17:48:45

## 1. API Description

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

This API is used to unbind an EIP from an HAVIP.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the `RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: HaVipDisassociateAddressIp.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
HaVipId	Yes	String	The unique <code>ID</code> of the <code>HAVIP</code> , such as <code>havip-9o233uri</code> . This must be an <code>HAVIP</code> that has been bound to an <code>EIP</code> .

## 3. Output Parameters

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

## 4. Example

### Example1 Unbinding an EIP from an HAVIP

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=HaVipDisassociateAddressIp
&HaVipId=havip-9o233uri
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "fcb47621-838b-428e-8c33-6e210d93c451"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.
UnsupportedOperation.UnbindEIP	EIP is not bound.

# HaVipAssociateAddressIp

最近更新时间：2023-05-17 17:38:13

## 1. API Description

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

This API is used to bind an EIP to an HAVIP.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the `RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: HaVipAssociateAddressIp.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
HaVipId	Yes	String	The unique <code>ID</code> of the <code>HAVIP</code> , such as <code>havip-9o233uri</code> . This must be a <code>HAVIP</code> that has not been bound to an <code>EIP</code> .
AddressIp	Yes	String	The Elastic <code>IP</code> . This must be an <code>EIP</code> that has not been bound to a <code>HAVIP</code> .



### 3. Output Parameters

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

### 4. Example

#### Example1 Binding an EIP to an HAVIP

##### Input Example

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

{
  "AddressIp": "119.29.93.218",
  "HaVipId": "havip-9o233uri"
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "fcb47621-838b-428e-8c33-6e210d93c451"
  }
}
```

### 5. Developer Resources

#### SDK

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.BindEIP	EIP has already been bound.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.
UnsupportedOperation.UnsupportedBindLocalZoneEIP	Binding the EIPs specified in <code>LocalZone</code> is not supported.

# DescribeHaVips

最近更新时间：2023-07-11 17:48:45

## 1. API Description

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

This API (DescribeHaVips) is used to query the list of highly available virtual IPs (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	<a href="#">Common Params</a> . The value used for this API: DescribeHaVips.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
HaVipIds.N	No	Array of String	The unique ID of the HAVIP, such as <code>havig-9o233uri</code> .
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. <code>HaVipIds</code> and <code>Filters</code> cannot be specified at the same time. <code>li&gt;havig-id</code> - String - The unique ID of the HAVIP, such as <code>havig-9o233uri</code> . <ul style="list-style-type: none"><li><code>havig-name</code> - String - HAVIP name.</li><li><code>vpc-id</code> - String - VPC ID of the HAVIP.</li><li><code>subnet-id</code> - String - Subnet ID of the HAVIP.</li><li><code>vip</code> - String - Virtual IP address of the HAVIP.</li></ul>

			<ul style="list-style-type: none"> <li>address-ip - String - Bound EIP.</li> </ul>
Offset	No	Integer	Offset
Limit	No	Integer	The returned quantity

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of objects meeting the condition.
HaVipSet	Array of <a href="#">HaVip</a>	<code>HAVIP</code> object array.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the HAVIP details by IDs

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeHaVips
&HaVipIds.0=havip-bk4275i0
&HaVipIds.1=havip-2kce8v4q
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "HaVipSet": [
      {
        "HaVipId": "havip-2kce8v4q",
        "HaVipName": "tadfafd",
        "Vip": "10.3.3.15",
        "VpcId": "vpc-o31qeah3",
        "SubnetId": "subnet-8qywqc4y",
        "NetworkInterfaceId": ""
      }
    ]
  }
}
```

```

"InstanceId": "",
"AddressIp": "",
"Business": "",
"State": "UNBOUND",
"CreatedTime": "2018-04-03 20:00:05"
},
{
"HaVipId": "havip-bk4275i0",
"HaVipName": "22",
"Vip": "10.2.0.14",
"VpcId": "vpc-2mcdauz1",
"SubnetId": "subnet-mnmm19fg",
"NetworkInterfaceId": "",
"InstanceId": "",
"AddressIp": "",
"Business": "",
"State": "UNBOUND",
"CreatedTime": "2018-04-03 20:05:33"
}
],
"TotalCount": 2,
"RequestId": "1c827bf1-837f-4302-b51a-4d538b7ad249"
}
}

```

## Example2 Querying the HAVIP details by multiple conditions

### Input Example

```

https://vpc.tencentcloudapi.com/?Action=DescribeHaVips
&Filters.0.Name=havip-name
&Filters.0.Values.0=test
&Filters.1.Name=vpc-id
&Filters.1.Values.0=vpc-6v2ht8q5
&<Common request parameters>

```

### Output Example

```

{
"Response": {
"HaVipSet": [
{
"HaVipId": "havip-iyylky",
"HaVipName": "test modify",
"Vip": "10.4.6.17",

```

```
"VpcId": "vpc-6v2ht8q5",
"SubnetId": "subnet-qq51iwr4",
"NetworkInterfaceId": "",
"InstanceId": "",
"AddressIp": "",
"Business": "",
"State": "UNBOUND",
"CreatedTime": "2018-10-09 18:08:16"
}
],
"TotalCount": 1,
"RequestId": "659cd6a3-a75a-473c-8280-af27c33da8bd"
}
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description

InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.

# DeleteHaVip

最近更新时间：2023-07-11 17:48:45

## 1. API Description

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

This API is used to delete an HAVIP.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the `RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteHaVip.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
HaVipId	Yes	String	The unique <code>ID</code> of the <code>HAVIP</code> , such as <code>havip-9o233uri</code> .

## 3. Output Parameters

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



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

## 4. Example

### Example1 Deleting a HAVIP

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteHaVip
&HaVipId=havip-9o233uri
&<Common request parameters>
```

#### 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](#)
- [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	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# CreateHaVip

最近更新时间：2023-08-23 14:11:29

## 1. API Description

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

This API is used to create a highly available virtual IP (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	<a href="#">Common Params</a> . The value used for this API: CreateHaVip.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The <code>ID</code> of the VPC to which the <code>HAVIP</code> belongs.
SubnetId	Yes	String	The <code>ID</code> of the subnet to which the <code>HAVIP</code> belongs.
HaVipName	Yes	String	The name of the <code>HAVIP</code> .
Vip	No	String	The specified virtual IP address, which must be within the IP range of the <code>VPC</code> and not in use. It will be automatically assigned if not specified.
NetworkInterfaceId	No	String	The ID of the ENI associated with the HAVIP.

### 3. Output Parameters

Parameter Name	Type	Description
HaVip	HaVip	<code>HAVIP</code> object.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a HAVIP

This example shows you how to create an HAVIP.

#### Input Example

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

{
  "SubnetId": "subnet-qq51iwr4",
  "Vip": "10.4.6.15",
  "VpcId": "vpc-6v2ht8q5",
  "HaVipName": "test+name"
}
```

#### Output Example

```
{
  "Response": {
    "HaVip": {
      "HaVipId": "havip-72alake",
      "HaVipName": "test name",
      "Vip": "10.4.6.15",
      "VpcId": "vpc-6v2ht8q5",
      "SubnetId": "subnet-qq51iwr4",
      "NetworkInterfaceId": "",
      "InstanceId": ""
    }
  }
}
```

```

"AddressIp": "",
"State": "UNBIND",
"CreatedTime": "2018-10-10 17:03:09",
"Business": "SCF"
},
"RequestId": "fcb47621-838b-428e-8c33-6e210d93c451"
}
}

```

## 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
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.InvalidBusiness	The parameter value does not exist or is not supported.

InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Reserved	The parameter value is retained by the system.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resources.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.SubnetNotExists	The subnet does not exist.

# ENI APIs

## AssignPrivateIpAddresses

最近更新时间：2023-08-23 14:11:33

### 1. API Description

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

This API is used to apply for private IPs for an ENI.

- An ENI can only be bound with a limited number of IP addresses. For more information about resource limits, see [ENI Use Limits](#).
- You can apply for a specified private IP. It cannot be a primary IP because the primary IP already exists and cannot be modified. The private IP address must be an idle IP in the subnet to which the ENI belongs.
- You can apply for more than one secondary private IP on the ENI. The API will return the specified number of secondary private IPs in the subnet IP range.

#### **Note :**

This API is async. You can call the [DescribeVpcTaskResult](#) API to query the task result. When the task is completed, you can continue other tasks.

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

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value AssignPrivateIpAddresses.

Version	Yes	String	<a href="#">Common Params</a> . The value 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This para for this API.
NetworkInterfaceId	Yes	String	The ID of the ENI instance, s m6dyj721 .
PrivateIpAddresses.N	No	Array of <a href="#">PrivateIpAddressSpecification</a>	The information on private IP you can specify a maximum should provide either this pa SecondaryPrivateIpAddresses
SecondaryPrivateIpAddressCount	No	Integer	The number of newly-applie You should provide either th PrivateIpAddresses, or both private IP addresses cannot more information, see <a href="#">ENI U</a>
QosLevel	No	String	IP u200d service level. It is u SecondaryPrivateIpAddresses Values: PT u200d(Gold), AU u (Bronze) and DEFAULT (De

### 3. Output Parameters

Parameter Name	Type	Description
PrivateIpAddressSet	Array of <a href="#">PrivateIpAddressSpecification</a>	The detailed information of the Private IP.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Applying for a private IP for an ENI

This example shows you how to apply for an ENI.



## Input Example

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

{
  "NetworkInterfaceId": "eni-afo43z61",
  "SecondaryPrivateIpAddressCount": "2"
}
```

## Output Example

```
{
  "Response": {
    "PrivateIpAddressSet": [
      {
        "PrivateIpAddress": "172.16.32.237"
      },
      {
        "PrivateIpAddress": "172.16.32.84"
      }
    ],
    "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.NetDetectTimeOut	Network probe timed out. Please retry later.
InvalidParameterValue.DuplicatePara	The parameter value already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Reserved	The parameter value is retained by the system.
LimitExceeded	Quota limit is reached.
LimitExceeded.ActionLimited	Too often API invocations
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resources.
ResourceInsufficient.Subnet	The subnet does not have sufficient IPs.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.
UnsupportedOperation.ResourceMismatch	The resource ID entered does not match with any

resource bound with the IP. Check and try again.

# UnassignPrivateIpAddresses

最近更新时间：2023-08-23 14:11:31

## 1. API Description

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

This API is used to return the private IP addresses of an ENI.

- If a secondary private IP of an ENI is returned, the EIP will be automatically unassociated as well. The primary private IP of the ENI cannot be returned.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the

`RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: UnassignPrivateIpAddresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The ID of the ENI instance, such as <code>eni-m6dyj721</code> .

PrivateIpAddresses.N	Yes	Array of <a href="#">PrivateIpAddressSpecification</a>	The information of the specified private IPs. You can specify a maximum of 10 each time.
InstanceId	No	String	Instance ID of the server bound with this IP. This parameter is only applicable when you need to return an IP and unbind the related servers.

### 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 private IPs of an ENI

This example shows you how to return the private IPs of an ENI.

#### Input Example

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

{
  "NetworkInterfaceId": "eni-afo43z61",
  "PrivateIpAddresses": [
    {
      "PrivateIpAddress": "172.16.32.111"
    }
  ]
}
```

#### 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++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.DuplicatePara	The parameter value already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded.ActionLimited	Too often API invocations
ResourceNotFound	The resource does not exist.

UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AttachmentNotFound	The binding relationship does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# ModifyNetworkInterfaceAttribute

最近更新时间：2023-08-23 14:11:31

## 1. API Description

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

This API (ModifyNetworkInterfaceAttribute) is used to modify ENI attributes.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyNetworkInterfaceAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The ID of the ENI instance, such as <code>eni-pxir56ns</code> .
NetworkInterfaceName	No	String	The name of the ENI. The maximum length is 60 characters.
NetworkInterfaceDescription	No	String	ENI description can be named freely, but the maximum length is 60 characters.
SecurityGroupIds.N	No	Array	The specified security groups to be bound with, such as



		of String	['sg-1dd51d'].
TrunkingFlag	No	String	Configuration of the ENI trunking mode. Valid values: Enable and Disable . Default value: Disable .

### 3. Output Parameters

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

### 4. Example

#### Example1 Modifying an ENI

This example shows you how to modify an ENI.

#### Input Example

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

{
  "NetworkInterfaceId": "eni-afo43z61",
  "NetworkInterfaceName": "NewName"
}
```

#### 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++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.SubEniNotSupportTrunking	The relayed ENI does not support this operation.

# DetachNetworkInterface

最近更新时间：2023-07-11 17:48:49

## 1. API Description

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

This API is used to unbind an ENI from a CVM.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the

`RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DetachNetworkInterface.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The ID of the ENI instance, such as <code>eni-m6dyj721</code> .
InstanceId	Yes	String	The ID of the CVM instance, such as <code>ins-r8hr2upy</code> .

## 3. Output Parameters

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

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

## 4. Example

### Example1 Unbinding an ENI from a CVM

This example shows you how to unbind an ENI from a CVM.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DetachNetworkInterface
&NetworkInterfaceId=eni-afo43z61
&InstanceId=ins-ins-r8hr2upy
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
  }
}
```

## 5. Developer Resources

### SDK

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded.ActionLimited	Too often API invocations
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	Invalid resource status.

# DescribeNetworkInterfaces

最近更新时间：2023-08-23 14:11:32

## 1. API Description

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

This API (DescribeNetworkInterfaces) is used to query the ENI list.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNetworkInterfaces.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceIds.N	No	Array of String	Queries the ID of the ENI instance, such as <code>eni-pxir56ns</code> . Each request can have a maximum of 100 instances. <code>NetworkInterfaceIds</code> and <code>Filters</code> cannot be specified at the same time.
Filters.N	No	Array of <a href="#">Filter</a>	Filter. <code>NetworkInterfaceIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"> <li><code>vpc-id</code> - String - VPC ID, such as <code>vpc-f4916u0z</code>.</li> </ul>

			<ul style="list-style-type: none"> <li>• <code>subnet-id</code> - String - Subnet ID, such as <code>subnet-f4916u0z</code> .</li> <li>• <code>network-interface-id</code> - String - ENI ID, such as <code>eni-5k56k7k7</code> .</li> <li>• <code>attachment.instance-id</code> - String - ID of the bound CVM instance, such as <code>ins-3nqpdn3i</code> .</li> <li>• <code>groups.security-group-id</code> - String - ID of the bound security group, such as <code>sg-f9ekbxeg</code> .</li> <li>• <code>network-interface-name</code> - String - ENI instance name.</li> <li>• <code>network-interface-description</code> - String - ENI instance description.</li> <li>• <code>address-ip</code> - String - Private IPv4 address. A single IP will be fuzzily matched with the suffix, while multiple IPs will be exactly matched. It can be used with <code>ip-exact-match</code> to query and exactly match a single IP.</li> <li>• <code>ip-exact-match</code> - Boolean - Exact match by private IPv4 address. The first value will be returned if multiple values are found.</li> <li>• <code>tag-key</code> - String - u200dOptional - u200dTag key. See Example 2 to learn more details.</li> <li>• <code>tag:tag-key</code> - String - Optional - Tag key-value pair. The <code>tag-key</code> should be replaced with a specific tag key. See Example 2 to learn more details.</li> <li>• <code>is-primary</code> - Boolean - Optional - Filter based on whether it is a primary ENI. Values: <code>true</code> , <code>false</code> . If this parameter is not specified, filter the both.</li> <li>• <code>eni-type</code> - String - Optional - Filter by ENI type. Values: <code>0</code> (Secondary ENI), <code>1</code> (Primary ENI), <code>2</code> (Relayed ENI)</li> <li>• <code>eni-qos</code> - String - Optional - Filter by ENI service level. Values: <code>AG</code> (Bronze), <code>AU</code> (Silver)</li> <li>• <code>address-ipv6</code> - String - Optional - Filter by private IPv6 address. Multiple IPv6 addresses can be used for query. If this field is used together with <code>address-ip</code> , their intersection will be used.</li> <li>• <code>public-address-ip</code> - String - Public IPv4 address. It supports exact matching.</li> </ul>
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

### 3. Output Parameters

Parameter Name	Type	Description
NetworkInterfaceSet	Array of <a href="#">NetworkInterface</a>	List of instance details.
TotalCount	Integer	Number of eligible instances.
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 ENIs

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

#### Input Example

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

{}
```

#### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "NetworkInterfaceSet": [
      {
        "MacAddress": "20:90:6F:F5:34:C7",
        "VpcId": "vpc-2kx9z6h3",
        "Business": "cvm",
        "Zone": "ap-guangzhou-2",
        "NetworkInterfaceId": "eni-f1xjkw1b",
        "Primary": false,
        "CdcId": "",
        "PrivateIpAddressSet": [
```



```
{
  "Description": "",
  "Primary": true,
  "PrivateIpAddress": "192.168.0.13",
  "PublicIpAddress": "",
  "IsWanIpBlocked": false,
  "State": "AVAILABLE"
},
{
  "Description": "",
  "Primary": false,
  "PrivateIpAddress": "192.168.0.15",
  "PublicIpAddress": "",
  "IsWanIpBlocked": false,
  "State": "AVAILABLE"
},
{
  "Description": "",
  "Primary": false,
  "PrivateIpAddress": "192.168.0.17",
  "PublicIpAddress": "",
  "IsWanIpBlocked": false,
  "State": "AVAILABLE"
},
{
  "Description": "",
  "Primary": false,
  "PrivateIpAddress": "192.168.0.24",
  "PublicIpAddress": "",
  "IsWanIpBlocked": false,
  "State": "AVAILABLE"
}
],
"NetworkInterfaceDescription": "aaa",
"Ipv6AddressSet": [],
"State": "AVAILABLE",
"GroupSet": [
  "sg-c2r7lnxh",
  "sg-f9ekbxeg"
],
"Attachment": {
  "InstanceId": "ins-ymk3eje8",
  "DeviceIndex": 1,
  "InstanceAccountId": "251153169",
  "AttachTime": "2021-01-08 16:36:49"
},
"TagSet": [],
```

```

"EniType": 1,
"CreatedTime": "2021-01-07 16:32:55",
"SubnetId": "subnet-nao8lfro",
"NetworkInterfaceName": "royhyangtest-main",
"AttachType": 1
},
"RequestId": "5cf1a813-d4f8-4e0c-8f90-c155a84a3ea1"
}
}
    
```

## Example2 Querying the list of ENIs with the specified tag

This example shows you how to query by `tag:tag-key` .

### Input Example

```

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

{
  "Filters": [
    {
      "Values": [
        "TEST"
      ],
      "Name": "tag:Version"
    }
  ]
}
    
```

### Output Example

```

{
  "Response": {
    "NetworkInterfaceSet": [
      {
        "VpcId": "vpc-70910i0x",
        "SubnetId": "subnet-qymfizh2",
        "NetworkInterfaceId": "eni-p17uqigx",
        "NetworkInterfaceName": "test",
        "NetworkInterfaceDescription": "",
        "GroupSet": [
    
```

```
"sg-hcd8t9xj"
],
"Primary": false,
"MacAddress": "20:90:6F:FC:9F:69",
"State": "AVAILABLE",
"CreatedTime": "2018-04-18 21:46:56",
"PrivateIpAddressSet": [
{
"Description": "12312",
"Primary": true,
"PrivateIpAddress": "192.168.3.10",
"AddressId": "",
"PublicIpAddress": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
},
{
"Description": "",
"Primary": false,
"PrivateIpAddress": "192.168.3.104",
"AddressId": "",
"PublicIpAddress": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
},
{
"Description": "13123",
"Primary": false,
"PrivateIpAddress": "192.168.3.18",
"AddressId": "",
"PublicIpAddress": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
},
{
"Description": "",
"Primary": false,
"PrivateIpAddress": "192.168.3.223",
"AddressId": "",
"PublicIpAddress": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
},
{
"Description": "",
"Primary": false,
"PrivateIpAddress": "192.168.3.86",
```

```
"AddressId": "",
"PublicIpAddress": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
},
],
"Attachment": null,
"Business": "cvm",
"Zone": "ap-guangzhou-2",
"Ipv6AddressSet": [
{
"Description": "",
"Primary": false,
"Address": "2402:4e00:1000:7400:0:9028:a2c9:85b2",
"AddressId": "",
"IsWanIpBlocked": false,
"State": "AVAILABLE"
}
],
"AttachType": 1,
"EniType": 1,
"CdcId": "",
"TagSet": [
{
"Key": "Version",
"Value": "TEST"
},
{
"Key": "Compony",
"Value": "Compony-A"
}
]
],
"TotalCount": 1,
"RequestId": "0c10340b-2551-4414-a8c7-8d90dc24ddd0"
}
```

## 5. Developer Resources

### SDK

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

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
LimitExceeded.ActionLimited	Too often API invocations
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# CreateNetworkInterface

最近更新时间：2023-08-23 14:11:32

## 1. API Description

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

This API is used to create an ENI.

- You can specify private IP addresses and a primary IP when creating an ENI. The specified private IP must be in the same subnet as the ENI and is not occupied.
- When creating an ENI, you can specify the number of private IP addresses that you want to apply for. The system will randomly generate private IP addresses.
- An ENI can only be bound with a limited number of IP addresses. For more information about resource limits, see [ENI Use Limits](#).
- You can bind an existing security group when creating an ENI.
- You can bind a tag when creating an ENI. The tag list in the response indicates the tags that have been successfully added.

### **Note :**

This API is async. You can call the [DescribeVpcTaskResult](#) API to query the task result. When the task is completed, you can continue other tasks.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description

Action	Yes	String	<a href="#">Common Params</a> . The value API: CreateNetworkInterface
Version	Yes	String	<a href="#">Common Params</a> . The value API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This para required for this API.
VpcId	Yes	String	The ID of the VPC instance. the parameter value from the the returned result of Describ
NetworkInterfaceName	Yes	String	The name of the ENI. The m 60 characters.
SubnetId	Yes	String	The subnet instance ID of th <code>subnet-0ap8nwca</code> .
NetworkInterfaceDescription	No	String	ENI description can be name maximum length is 60 chara
SecondaryPrivateIpAddressCount	No	Integer	The number of private IP ad apply for. The total number c addresses cannot exceed th
QosLevel	No	String	IP u200dservice level. It is u with <code>SecondaryPrivateIpAc</code> Values: <code>PT</code> u200d(Gold), u200d(Silver), <code>AG</code> (Bronze) <code>DEFAULT</code> (Default).
SecurityGroupIds.N	No	Array of String	Specifies the security group with, such as ['sg-1dd51d'].
PrivateIpAddresses.N	No	Array of <a href="#">PrivateIpAddressSpecification</a>	The information of the specil You can specify a maximum
Tags.N	No	Array of <a href="#">Tag</a>	Bound tags, such as [{"Key": "shanghai"}].
TrunkingFlag	No	String	Configuration of the ENI trun values: <code>Enable</code> and <code>Di</code> value: <code>Disable</code> .

### 3. Output Parameters

Parameter Name	Type	Description
NetworkInterface	<a href="#">NetworkInterface</a>	ENI instance.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating an ENI

This example shows you how to create an ENI.

#### Input Example

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

{
  "VpcId": "vpc-0akbol5v",
  "Tags": [
    {
      "Value": "shanghai",
      "Key": "city"
    }
  ],
  "PrivateIpAddresses": [
    {
      "Primary": "true",
      "PrivateIpAddress": "172.16.64.13"
    }
  ],
  "SecurityGroupIds": [
    "sg-05bb4upy"
  ],
  "NetworkInterfaceDescription": "TestDesc",
  "SecondaryPrivateIpAddressCount": "1",
  "SubnetId": "subnet-76r802pg",
```



```
"NetworkInterfaceName": "TestNIC"
}
```

## Output Example

```
{
  "Response": {
    "NetworkInterface": {
      "NetworkInterfaceId": "abc",
      "NetworkInterfaceName": "abc",
      "NetworkInterfaceDescription": "abc",
      "SubnetId": "abc",
      "VpcId": "abc",
      "GroupSet": [
        "abc"
      ],
      "Primary": true,
      "MacAddress": "abc",
      "State": "abc",
      "PrivateIpAddressSet": [
        {
          "PrivateIpAddress": "abc",
          "Primary": true,
          "PublicIpAddress": "abc",
          "AddressId": "abc",
          "Description": "abc",
          "IsWanIpBlocked": true,
          "State": "abc",
          "QosLevel": "abc"
        }
      ],
      "Attachment": {
        "InstanceId": "abc",
        "DeviceIndex": 1,
        "InstanceAccountId": "abc",
        "AttachTime": "abc"
      },
      "Zone": "abc",
      "CreatedTime": "abc",
      "Ipv6AddressSet": [
        {
          "Address": "abc",
          "Primary": true,
          "AddressId": "abc",
          "Description": "abc",
          "IsWanIpBlocked": true,

```

```
"State": "abc"
},
],
"TagSet": [
{
"Key": "abc",
"Value": "abc"
}
],
"EniType": 1,
"Business": "abc",
"CdcId": "abc",
"AttachType": 1,
"ResourceId": "abc",
"QosLevel": "abc"
},
"RequestId": "abc"
}
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
FailedOperation.NetDetectTimeOut	Network probe timed out. Please retry later.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Reserved	The parameter value is retained by the system.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.

LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resources.
ResourceInsufficient.Subnet	The subnet does not have sufficient IPs.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.ResourceMismatch	The resource ID entered does not match with any resource bound with the IP. Check and try again.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# AttachNetworkInterface

最近更新时间：2023-08-23 14:11:33

## 1. API Description

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

This API is used to bind an ENI to a CVM.

- An ENI must be bound with one security group at least. To bind it, see [AssociateNetworkInterfaceSecurityGroups](#).
- One CVM can be bound with multiple ENIs, but only one can be the primary ENI. For more information about the limits, see [ENI Use Limits](#).
- An ENI can only be bound to one CVM.
- Only the running or shutdown CVMs can be bound with ENIs. For more information about the CVM status, see [InstanceStatus](#) in the Data Types.
- An ENI can only be bound to a VPC-based CVM under the same availability zone as the ENI subnet.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the

`RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AttachNetworkInterface.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.

NetworkInterfaceId	Yes	String	The ID of the ENI instance, such as <code>eni-m6dyj721</code> .
InstanceId	Yes	String	The ID of the CVM instance, such as <code>ins-r8hr2upy</code> .
AttachType	No	Integer	ENI mounting type. Valid values: <code>0</code> (standard); <code>1</code> (extension); default value: <code>0</code>

### 3. Output Parameters

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

### 4. Example

#### Example1 Binding an ENI with a CVM

This example shows you how to bind an ENI with a CVM.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AttachNetworkInterface
&NetworkInterfaceId=eni-afo43z61
&InstanceId=ins-ins-r8hr2upy
&<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 Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
LimitExceeded.ActionLimited	Too often API invocations
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AttachmentAlreadyExists	The EIP is already bound to a CVM.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.ResourceIsInvalidState	Operation prohibited: The resource is not available.
UnsupportedOperation.UnsupportedInstanceFamily	The specified instance type does not support ENIs.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

UnsupportedOperation.ZoneMismatch

The specified resources are not in the same availability zone.



# MigratePrivateIpAddress

最近更新时间：2023-05-19 17:19:04

## 1. API Description

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

This API is used to migrate the private IPs between ENIs.

- Note that primary IPs cannot be migrated.
- The source and destination ENI must be within the same subnet.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the

`RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: MigratePrivateIpAddress.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SourceNetworkInterfaceId	Yes	String	ID of the ENI instance bound with the private IP, such as <code>eni-m6dyj721</code> .

DestinationNetworkInterfaceId	Yes	String	ID of the destination ENI instance to be migrated.
PrivateIpAddress	Yes	String	The private IP 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 an private IP between ENIs

This example shows you how to migrate a private IP between ENIs.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=MigratePrivateIpAddress
&SourceNetworkInterfaceId=eni-afo43z61
&DestinationNetworkInterfaceId=eni-g0n2axhd
&PrivateIpAddress=172.16.33.109
&<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 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
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.AttachmentNotFound	The binding relationship does not exist.
UnauthorizedOperation.PrimaryIp	The operation is not allowed for a primary IP.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.
UnsupportedOperation.PrimaryIp	The specified value is a primary IP.

# MigrateNetworkInterface

最近更新时间：2023-08-23 14:11:32

## 1. API Description

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

This API is used to migrate ENIs.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the

`RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: MigrateNetworkInterface.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The ID of the ENI instance, such as <code>eni-m6dyj721</code> .
SourceInstanceId	Yes	String	The ID of the CVM bound to the ENI, such as <code>ins-r8hr2upy</code> .
DestinationInstanceId	Yes	String	ID of the destination CVM instance to be migrated.
AttachType	No	Integer	ENI mount method. Valid values: 0: standard; 1: extension; default value: 0

### 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 an ENI

This example shows you how to migrate an ENI.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=MigrateNetworkInterface
&NetworkInterfaceId=eni-afo43z61
&SourceInstanceId=ins-r8hr2upy
&DestinationInstanceId=ins-s2hr8upy
&<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](#)
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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.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AttachmentNotFound	The binding relationship does not exist.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

# DeleteNetworkInterface

最近更新时间：2023-05-19 17:19:05

## 1. API Description

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

This API is used to delete an ENI.

- An ENI cannot be deleted when it's bound to a CVM.
- After the deletion, all of its private IP addresses will be released.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the `RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteNetworkInterface.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The ID of the ENI instance, such as <code>eni-m6dyj721</code> .

## 3. Output Parameters

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

## 4. Example

### Example1 Deleting an ENI

This example shows you how to delete an ENI.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteNetworkInterface  
  
&NetworkInterfaceId=eni-m6dyj721  
&<Common request parameters>
```

#### Output Example

```
{  
  "Response": {  
    "RequestId": "5cf1a813-d4f8-4e0c-8f90-c155a84a3ea1"  
  }  
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded.ActionLimited	Too often API invocations
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	Invalid resource status.

# ModifyPrivateIpAddressesAttribute

最近更新时间：2023-07-11 17:48:48

## 1. API Description

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

This API (ModifyPrivateIpAddressesAttribute) is used to modify the private IP attributes of an ENI.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyPrivateIpAddressesAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The ID of the ENI instance, such as <code>eni-m6dyj721</code> .
PrivateIpAddresses.N	Yes	Array of <a href="#">PrivateIpAddressSpecification</a>	The specified private IP information.

## 3. Output Parameters

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

## 4. Example

### Example1 Modifying the private IP attributes of an ENI

This example shows you how to modify the private IP attributes of an ENI.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyPrivateIpAddressesAttribute
&NetworkInterfaceId=eni-afo43z61
&PrivateIpAddresses.0.PrivateIpAddress=172.16.32.111
&PrivateIpAddresses.0.Description=new-pip-name
&<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 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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.

# UnassignIpv6Addresses

最近更新时间：2023-05-19 17:19:04

## 1. API Description

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

This API is used to release the IPv6 addresses of an ENI.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the `RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: UnassignIpv6Addresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The <code>ID</code> of the ENI instance, such as <code>eni-m6dyj721</code> .
Ipv6Addresses.N	Yes	Array of <a href="#">Ipv6Address</a>	The list of specified <code>IPv6</code> addresses. A maximum of 10 can be specified each 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 Releasing IPv6 addresses

This example shows you how to release IPv6 addresses.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=UnassignIpv6Addresses
&NetworkInterfaceId=eni-9c8zkfev
&Ipv6Addresses.0.Address=3402:4e00:20:1202:0:8d01:ee9c:3e22
&Ipv6Addresses.1.Address=3402:4e00:20:1202:0:8d01:ee9c:3f7d
&Ipv6Addresses.2.Address=3402:4e00:20:1202:0:8d01:fef4:c7d5
&Ipv6Addresses.3.Address=3402:4e00:20:1202:0:8d01:fef4:c97f
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "75221557-b667-440a-8cfe-ccd1bde2a234"
  }
}
```

## 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++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.AttachmentNotFound	The binding relationship does not exist.
UnauthorizedOperation.PrimaryIp	The operation is not allowed for a primary IP.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AttachmentNotFound	The binding relationship does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# ModifyIpv6AddressesAttribute

最近更新时间：2023-07-11 17:48:48

## 1. API Description

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

This API (ModifyIpv6AddressesAttribute) is used to modify the private 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	<a href="#">Common Params</a> . The value used for this API: ModifyIpv6AddressesAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The ID of the ENI instance, such as <code>eni-m6dyj721</code> .
Ipv6Addresses.N	Yes	Array of <a href="#">Ipv6Address</a>	The information of the specified private IPv6 addresses.

## 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 IPv6 address attributes of an ENI

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyIpv6AddressesAttribute
&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 C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Duplicate	The input parameter already exists.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AttachmentNotFound	The binding relationship does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.

# AssignIpv6Addresses

最近更新时间：2023-07-11 17:48:50

## 1. API Description

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

This API is used to apply for an IPv6 address for the ENI.

This API is completed asynchronously. If you need to query the execution result of an async task, please use the `RequestId` returned by this API to poll the `DescribeVpcTaskResult` API.

- The number of IPs bound with an ENI is limited. For more information, see [ENI Use Limits](#).
- You can apply for a specified IPv6 address. Currently, the IPv6 address can only be used as a secondary IP, instead of the primary IP.
- The address must be an idle IP in the subnet to which the ENI belongs.
- When applying for one or more secondary IPv6 addresses for an ENI, the API will return the specified number of secondary IPv6 addresses in the subnet range where the ENI is located.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AssignIpv6Addresses.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.

Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceId	Yes	String	The <code>ID</code> of the ENI instance, such as <code>eni-m6dyj721</code> .
Ipv6Addresses.N	No	Array of <a href="#">Ipv6Address</a>	A list of <code>IPv6</code> addresses. You can specify a maximum of 10 at one time. The quota is calculated together with that of <code>Ipv6AddressCount</code> , a required input parameter alternative to this one.
Ipv6AddressCount	No	Integer	The number of automatically assigned <code>IPv6</code> addresses. The total number of private IP addresses cannot exceed the quota. The quota is calculated together with that of <code>Ipv6Addresses</code> , a required input parameter alternative to this one.

### 3. Output Parameters

Parameter Name	Type	Description
Ipv6AddressSet	Array of <a href="#">Ipv6Address</a>	The list of <code>IPv6</code> 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 Applying for specified IPv6 addresses

This example shows you how to apply for specified IPv6 addresses for an ENI.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AssignIpv6Addresses
<Common request parameters>
```

```
{
  "Ipv6Addresses": [
    {
      "Description": "test2",
      "Primary": "false",
      "Address": "3402:4e00:20:1202::2"
    },
    {
      "Description": "test1",
      "Primary": "false",
      "Address": "3402:4e00:20:1202::1"
    }
  ],
  "NetworkInterfaceId": "eni-5u5biuj1"
}
```

### Output Example

```
{
  "Response": {
    "Ipv6AddressSet": [
      {
        "Address": "3402:4e00:20:1202::1",
        "AddressId": "",
        "Primary": false,
        "Description": "test1",
        "IsWanIpBlocked": false,
        "State": "PENDING"
      },
      {
        "Address": "3402:4e00:20:1202::2",
        "AddressId": "",
        "Primary": false,
        "Description": "test2",
        "IsWanIpBlocked": false,
        "State": "PENDING"
      }
    ],
    "RequestId": "4a8d6fc0-bc48-4394-b1f7-2818a217359a"
  }
}
```

### Example2 Applying for a specified number of IPv6 addresses

This example shows you how to apply for a specified number of IPv6 addresses.

## Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AssignIpv6Addresses
<Common request parameters>

{
  "NetworkInterfaceId": "eni-5u5biuj1",
  "Ipv6AddressCount": 2
}
```

## Output Example

```
{
  "Response": {
    "Ipv6AddressSet": [
      {
        "Address": "3402:4e00:20:1202:0:8d05:c272:f514",
        "AddressId": "",
        "Primary": false,
        "Description": "",
        "IsWanIpBlocked": false,
        "State": "PENDING"
      },
      {
        "Address": "3402:4e00:20:1202:0:8d05:c272:f559",
        "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 .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Reserved	The parameter value is retained by the system.
LimitExceeded	Quota limit is reached.
LimitExceeded.ActionLimited	Too often API invocations
LimitExceeded.Address	The number of assigned IP addresses has reached the upper limit.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceInUse.Address	The specified IP address is already in use.

ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.
UnsupportedOperation.UnassignCidrBlock	IPv6 IP range is not assigned.



# DescribeNetworkInterfaceLimit

最近更新时间：2023-08-23 14:11:32

## 1. API Description

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

This API (DescribeNetworkInterfaceLimit) is used to query the ENI quota based on the ID of CVM instance or ENI. It returns the ENI quota to which the CVM instance can be bound and the IP address quota that can be allocated to the 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	<a href="#">Common Params</a> . The value used for this API: DescribeNetworkInterfaceLimit.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
InstanceId	Yes	String	ID of a CVM instance or ENI to query

## 3. Output Parameters

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

EniQuantity	Integer	Quota of ENIs mounted to a CVM instance in a standard way
EniPrivateIpAddressQuantity	Integer	Quota of IP addresses that can be allocated to each standard-mounted ENI
ExtendEniQuantity	Integer	Quota of ENIs mounted to a CVM instance as an extension Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ExtendEniPrivateIpAddressQuantity	Integer	Quota of IP addresses that can be allocated to each extension-mounted ENI. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
SubEniQuantity	Integer	The quota of relayed ENIs Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
SubEniPrivateIpAddressQuantity	Integer	The quota of IPs that can be assigned to each relayed ENI. Note: This field may return <code>null</code> , 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 ENI quota by CVM instance ID

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNetworkInterfaceLimit
&InstanceId=ins-1991090i
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "EniPrivateIpAddressQuantity": 10,
    "ExtendEniPrivateIpAddressQuantity": 20,
    "ExtendEniQuantity": 0,
    "RequestId": "01f14f34-e9ae-470d-a71b-e8616ad3fae1",
    "EniQuantity": 2,
```

```
"SubEniQuantity": 0,  
"SubEniPrivateIpAddressQuantity": 0  
}  
}
```

## Example2 Querying the ENI quota by ENI ID

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNetworkInterfaceLimit  
&InstanceId=eni-1991090i  
&<common request parameters>
```

### Output Example

```
{  
  "Response": {  
    "EniQuantity": 0,  
    "EniPrivateIpAddressQuantity": 10,  
    "ExtendEniQuantity": 0,  
    "ExtendEniPrivateIpAddressQuantity": 0,  
    "RequestId": "01f14f34-e9ae-470d-a71b-e8616ad3fae1",  
    "SubEniQuantity": 0,  
    "SubEniPrivateIpAddressQuantity": 0  
  }  
}
```

## 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
InternalServerError.ModuleError	Internal module error
InternalServerError	Internal error.
InvalidInstanceId.NotFound	Invalid instance ID. The specified instance ID does not exist.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DisassociateNetworkInterfaceSecurityGroups

最近更新时间：2023-07-11 17:48:49

## 1. API Description

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

This API (DisassociateNetworkInterfaceSecurityGroups) is used to detach (or fully detach if possible) a security group from 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	<a href="#">Common Params</a> . The value used for this API: DisassociateNetworkInterfaceSecurityGroups.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceIds.N	Yes	Array of String	ENI instance ID, e.g. eni-pxir56ns. You can enter up to 100 instances for each request.
SecurityGroupIds.N	Yes	Array of String	The security group instance ID, such as <code>sg-33ocnj9n</code> . It can be obtained through DescribeSecurityGroups. You can enter up to 100 instances for each 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 Disassociating an ENI from a security group

This example shows you how to disassociate an ENI from a security group.

##### Input Example

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

{
  "NetworkInterfaceIds": [
    "eni-12345678"
  ],
  "SecurityGroupIds": [
    "sg-12345678"
  ]
}
```

##### 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](#)

## 6. Error Code

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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# AssociateNetworkInterfaceSecurityGroups

最近更新时间：2023-07-11 17:48:50

## 1. API Description

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

This API (AssociateNetworkInterfaceSecurityGroups) is used to attach a security group to 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	<a href="#">Common Params</a> . The value used for this API: AssociateNetworkInterfaceSecurityGroups.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkInterfaceIds.N	Yes	Array of String	ENI instance ID, e.g. eni-pxir56ns. You can enter up to 100 instances for each request.
SecurityGroupIds.N	Yes	Array of String	The security group instance ID, such as <code>sg-33ocnj9n</code> . It can be obtained through DescribeSecurityGroups. You can enter up to 100 instances for each 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 Associating an ENI with security groups.

This example shows you how to associate an ENI with security groups.

#### Input Example

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

{
  "NetworkInterfaceIds": [
    "eni-1a2b3c4d"
  ],
  "SecurityGroupIds": [
    "sg-1a2b3c4d"
  ]
}
```

#### 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++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# CreateAndAttachNetworkInterface

最近更新时间：2023-08-23 14:11:32

## 1. API Description

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

This API is used to create an ENI and bind it to a CVM.

- You can specify private IP addresses and a primary IP when creating an ENI. The specified private IP must be idle and in the same subnet as the ENI.
- When creating an ENI, you can specify the number of private IPs that you want to apply for. The system will randomly generate private IP addresses.
- The number of IPs bound with an ENI is limited. For more information, see [ENI Use Limits](#).
- You can bind an existing security group when creating an ENI.
- You can bind a tag when creating an ENI. The tag list in the response indicates the tags that have been successfully added.

### **Note :**

This API is async. You can call the [DescribeVpcTaskResult](#) API to query the task result. When the task is completed, you can continue other tasks.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value

			API: CreateAndAttachNetwo
Version	Yes	String	<a href="#">Common Params</a> . The value API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This para required for this API.
VpcId	Yes	String	The ID of the VPC instance. the parameter value from the in the returned result of the <code>DescribeVpcs</code> API.
NetworkInterfaceName	Yes	String	The name of the ENI. The m 60 bytes.
SubnetId	Yes	String	The subnet instance ID of th 'subnet-0ap8nwca'.
InstanceId	Yes	String	CVM instance ID.
PrivateIpAddresses.N	No	Array of <a href="#">PrivateIpAddressSpecification</a>	The information of the specif You can specify a maximum time.
SecondaryPrivateIpAddressCount	No	Integer	The number of private IP ad apply for. The total number c addresses cannot exceed th
QosLevel	No	String	IP u200dservice level. It is u with <code>SecondaryPrivateIpAd</code> Values: <code>PT</code> u200d(Gold), u200d(Silver), <code>AG</code> (Bronze), <code>DEFAULT</code> (Default).
SecurityGroupIds.N	No	Array of String	The security group to be bou ['sg-1dd51d'].
NetworkInterfaceDescription	No	String	The ENI description. You ca information within 60 charac
Tags.N	No	Array of <a href="#">Tag</a>	Bound tags, such as [{"Key": "shanghai"}].
AttachType	No	Integer	ENI mounting type. Valid val (standard); <code>1</code> (extension);

### 3. Output Parameters

Parameter Name	Type	Description
NetworkInterface	<a href="#">NetworkInterface</a>	The ENI instance.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating an ENI and binding it to a CVM

This example shows you how to create an ENI and bind it to a CVM.

#### Input Example

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

{
  "VpcId": "vpc-0akbol5v",
  "Tags": [
    {
      "Value": "shanghai",
      "Key": "city"
    }
  ],
  "InstanceId": "ins-12345678",
  "PrivateIpAddresses": [
    {
      "Primary": "true",
      "PrivateIpAddress": "172.16.64.13"
    }
  ],
  "SecurityGroupIds": [
    "sg-05bb4upy"
  ],
}
```

```
"NetworkInterfaceDescription": "TestDesc",
"SecondaryPrivateIpAddressCount": "1",
"SubnetId": "subnet-76r802pg",
"NetworkInterfaceName": "TestNIC"
}
```

## Output Example

```
{
  "Response": {
    "NetworkInterface": {
      "NetworkInterfaceId": "eni-irk5qhl",
      "VpcId": "vpc-0akbol5v",
      "SubnetId": "subnet-76r802pg",
      "NetworkInterfaceName": "TestNIC",
      "NetworkInterfaceDescription": "TestDesc",
      "MacAddress": "20:90:6F:62:33:E2",
      "Business": "TKE",
      "CdcId": "",
      "EniType": 1,
      "AttachType": 1,
      "PrivateIpAddressSet": [
        {
          "PrivateIpAddress": "172.16.64.13",
          "Primary": true,
          "AddressId": "",
          "PublicIpAddress": "",
          "Description": "",
          "IsWanIpBlocked": false,
          "State": "PENDING"
        }
      ],
      "Attachment": {
        "InstanceId": "ins-12345678"
      },
      "GroupSet": [],
      "Primary": false,
      "State": "PENDING",
      "Zone": "",
      "CreatedTime": "",
      "Ipv6AddressSet": [],
      "TagSet": [
        {
          "Key": "city",
          "Value": "shanghai"
        }
      ]
    }
  }
}
```

```
]
},
"RequestId": "5cf1a813-d4f8-4e0c-8f90-c155a84a3ea1"
}
}
```

## 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
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.

InvalidParameterValue.Reserved	The parameter value is retained by the system.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resources.
ResourceInsufficient.Subnet	The subnet does not have sufficient IPs.
ResourceNotFound	The resource does not exist.



UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.ResourceMismatch	The resource ID entered does not match with any resource bound with the IP. Check and try again.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.
UnsupportedOperation.UnsupportedInstanceFamily	The specified instance type does not support ENIs.

# IP Location APIs

## DescribeIpGeolocationDatabaseUrl

最近更新时间：2023-07-11 17:48:44

### 1. API Description

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

This API is used to obtain the download link of an IP location database.

**This API will be discontinued soon and is only available for existing users.**

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

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeIpGeolocationDatabaseUrl.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Type	Yes	String	Protocol type for an IP location database. Valid value: <code>ipv4</code> .

### 3. Output Parameters

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

Name		
DownloadUrl	String	Download link of an IP location database
ExpiredAt	Timestamp ISO8601	Link expiration time in UTC format following the ISO8601 standard.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Obtaining the download link of an IPv4 location database

This example shows you how to obtain the download link of an IPv4 location database.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeIpGeolocationDatabaseUrl
&Type=ipv4
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "DownloadUrl": "https://ip-address-repo-1255852779.cos.ap-guangzhou.myqcloud.com/
tencent_ipv4_repo.tgz?q-sign-algorithm=sha1&q-ak=AKIDb5RbYFe5PcrwtkazVpxqX2MQIRM2
xfy4&q-sign-time=1578970542;1579057002&q-key-time=1578970542;1579057002&q-header-
list=&q-url-param-list=&q-signature=00f8d6ad0252822e17cca6450ebcd626eadc8405",
    "ExpiredAt": "2020-01-15T10:56:42+00:00",
    "RequestId": "21b41e67-8c0f-48cf-8af3-de0b6e1f4a4b"
  }
}
```

## 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	CAM signature or authentication error.
InternalError	An internal error occurred.
InvalidAccount.NotSupported	This account is not supported.
InvalidParameterConflict	The two parameters cannot be specified at the same time, nor exist concurrently. EIP can only be bound to the instances or the specified private IPs of the specified ENIs.
InvalidParameterValue	Incorrect parameter value.

# DescribeIpGeolocationInfos

最近更新时间：2023-08-23 14:11:28

## 1. API Description

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

This API is used to query the location and network information of one or more IP addresses.

**This API will be discontinued soon and is only available for existing users.**

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeIpGeolocationInfos.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressIps.N	Yes	Array of String	The list of IP addresses (only IPv4 addresses are available currently) to be queried; upper limit: 100
Fields	No	<a href="#">IpField</a>	Fields of the IP addresses to be queried.

## 3. Output Parameters

--	--	--

Parameter Name	Type	Description
AddressInfo	Array of <a href="#">IpGeolocationInfo</a>	IP address details
Total	Integer	Number of IP addresses
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying the location of IPs

This example shows you how to query the location of IPs.

#### Input Example

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

{
  "AddressIps": [
    "8.8.8.8",
    "2001:1200::"
  ],
  "Fields": {
    "Province": "True",
    "Country": "True",
    "Region": "True",
    "Isp": "True",
    "City": "True"
  }
}
```

#### Output Example

```
{
  "Response": {
    "Total": 2,
```

```
"AddressInfo": [  
  {  
    "AddressIp": "2001:1200::",  
    "Country": "Mexico",  
    "Province": "tabasco",  
    "City": "miguel hidalgo",  
    "Region": "Unknown",  
    "Isp": "protel i-next, s.a. de c.v., mx"  
  },  
  {  
    "AddressIp": "8.8.8.8",  
    "Country": "United States",  
    "Province": "california",  
    "City": "mountain view",  
    "Region": "Unknown",  
    "Isp": "google - google inc., us"  
  }  
],  
"RequestId": "6d3e1ba5-a3d0-41d4-93f7-4992a2e18b9d"  
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.NotSupported	This account is not supported.
InvalidParameter	A parameter error occurred.
InvalidParameterValue.Combination	Invalid input parameters
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
MissingParameter	Missing parameter.



# Bandwidth Package APIs

## RemoveBandwidthPackageResources

最近更新时间：2023-08-23 14:11:37

### 1. API Description

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

This API is used to delete a bandwidth package resource, including [Elastic IP](#), [Cloud Load Balancer](#), and so on.

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

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: RemoveBandwidthPackageResources.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
BandwidthPackageId	No	String	The unique ID of the bandwidth package, such as <code>bwp-xxxx</code> .
ResourceType	No	String	The resource type. Valid values: <code>Address</code> and <code>LoadBalance</code> .
ResourceIds.N	No	Array of String	The resource IP, such as <code>eip-xxxx</code> and <code>lb-xxxx</code> .

## 3. Output Parameters

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

## 4. Example

### Example1 Removing resources from a bandwidth package

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=RemoveBandwidthPackageResources
&BandwidthPackageId=bwp-pr0xbnvw
&ResourceIds.0=eip-alfxy9c8
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "f1989f97-6b65-40b5-8afa-37d105c60c84"
  }
}
```

## 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.IpTypeNotPermit	
InvalidInstanceId.NotFound	Invalid instance ID. The specified instance ID does not exist.
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.BandwidthPackageNotFound	Failed to query the bandwidth package
InvalidParameterValue.ResourceIdMalformed	The resource ID is incorrect.
InvalidParameterValue.ResourceNotExisted	The resource is not associated with this bandwidth package.
InvalidParameterValue.ResourceNotFound	This resource is not found.
UnsupportedOperation.BandwidthPackageIdNotSupported	This bandwidth package does not support this operation.
UnsupportedOperation.InvalidResourceProtocol	Bandwidth packages inapplicable to this protocol

# ModifyBandwidthPackageAttribute

最近更新时间：2023-08-23 14:11:38

## 1. API Description

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

This API is used to modify the attributes of a bandwidth package, including the bandwidth package name, and so on.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyBandwidthPackageAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
BandwidthPackageId	Yes	String	The unique ID of the bandwidth package.
BandwidthPackageName	Yes	String	The name of the bandwidth package.
ChargeType	No	String	The billing mode of the bandwidth package. Values: <code>TOP5_POSTPAID_BY_MONTH</code> : Bill by the top 5 bandwidth value of the current month in a postpaid manner

### 3. Output Parameters

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

### 4. Example

#### Example1 Modifying the name of a bandwidth package

##### Input Example

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

{
  "BandwidthPackageName": "test",
  "BandwidthPackageId": "bwp-e40edw8y"
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "2ece8f4a-c0f5-4b83-8054-a9b808a5c465"
  }
}
```

#### Example2 Modifying the billing mode of a bandwidth package

##### Input Example

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

```
{
  "BandwidthPackageName": "test",
  "BandwidthPackageId": "bwp-e40edw8y",
  "ChargeType": "TOP5"
}
```

### Output Example

```
{
  "Response": {
    "RequestId": "2ece8f4a-c0f5-4b83-8054-a9b808a5c465"
  }
}
```

## 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
------------	-------------

InternalServerError	Internal error.
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.BandwidthPackageNotFound	Failed to query the bandwidth package
InvalidParameterValue.InvalidBandwidthPackageChargeType	Invalid billing mode of bandwidth package

# DescribeBandwidthPackages

最近更新时间：2023-08-23 14:11:38

## 1. API Description

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

This API is used to query bandwidth package information, including the unique ID of the bandwidth package, the type, the billing mode, the name, and the resource information.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeBandwidthPackages.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
BandwidthPackageIds.N	No	Array of String	The unique ID list of bandwidth packages.
Filters.N	No	Array of Filter	Each request can have up to 10 <code>Filters</code> . <code>BandwidthPackageIds</code> and <code>Filters</code> cannot be specified at the same time. The specific filter conditions are as follows:



			<ul style="list-style-type: none"> <li>• <code>bandwidth-package-id</code> - String - Required: No - (Filter condition) Filter by the unique ID of the bandwidth package.</li> <li>• <code>bandwidth-package-name</code> - String - Required: No - (Filter condition) Filter by the bandwidth package name. Fuzzy filtering is not supported.</li> <li>• <code>network-type</code> - String - Required: No - (Filter condition) Filter by the bandwidth package type. Valid values: <code>HIGH_QUALITY_BGP</code> , <code>BGP</code> , <code>SINGLEISP</code> , and <code>ANYCAST</code> .</li> <li>• <code>charge-type</code> - String - Required: No - (Filter condition) Filter by the bandwidth package billing mode. Valid values: <code>TOP5_POSTPAID_BY_MONTH</code> and <code>PERCENT95_POSTPAID_BY_MONTH</code> .</li> <li>• <code>resource.resource-type</code> - String - Required: No - (Filter condition) Filter by the bandwidth package resource type. Valid values: <code>Address</code> and <code>LoadBalance</code> .</li> <li>• <code>resource.resource-id</code> - String - Required: No - (Filter condition) Filter by the bandwidth package resource ID, such as <code>eip-xxxx</code> and <code>lb-xxxx</code> .</li> <li>• <code>resource.address-ip</code> - String - Required: No - (Filter condition) Filter by the bandwidth package resource IP.</li> <li>• <code>tag-key</code> - String - Required: No - (Filter condition) Filter by tag key.</li> <li>• <code>tag-value</code> - String - Required: No - (Filter condition) Filter by tag value.</li> <li>• <code>tag:tag-key</code> - String - Required: No - (Filter condition) Filter by tag key-value pair. Use a specific tag key to replace <code>tag-key</code> .</li> </ul>
Offset	No	Integer	Offset. This value defaults to 0. For more information, see the relevant sections in <a href="#">API Overview</a> .
Limit	No	Integer	Number of bandwidth packages returned. This value defaults to 20. The maximum is 100. For more information, see the relevant sections in <a href="#">API Overview</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of eligible bandwidth packages.

BandwidthPackageSet	Array of <a href="#">BandwidthPackage</a>	Detail information of the bandwidth package.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying bandwidth package resources

#### Input Example

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

{
  "Filters": [
    {
      "Values": [
        "BGP"
      ],
      "Name": "network-type"
    }
  ]
}
```

#### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "BandwidthPackageSet": [
      {
        "BandwidthPackageId": "bwp-p6am50q0",
        "BandwidthPackageName": "gongxiang1",
        "Status": "CREATED",
        "NetworkType": "BGP",
        "ChargeType": "FIXED_PREPAID_BY_MONTH",
        "CreatedTime": "2019-12-31T16:48:49Z",
        "ResourceSet": [
          {
```

```
"ResourceType": "Address",
"ResourceId": "eip-hbhcbwci",
"AddressIp": "134.175.210.185"
},
{
"ResourceType": "Address",
"ResourceId": "eip-bksqvcue",
"AddressIp": "193.112.158.4"
},
{
"ResourceType": "Address",
"ResourceId": "eip-rlwrl9zg",
"AddressIp": "193.112.128.149"
},
{
"ResourceType": "Address",
"ResourceId": "eip-0a0z6e86",
"AddressIp": "193.112.214.231"
},
{
"ResourceType": "Address",
"ResourceId": "eip-loq78a2u",
"AddressIp": "193.112.214.146"
},
{
"ResourceType": "Address",
"ResourceId": "eip-9b23ko6g",
"AddressIp": "193.112.195.106"
},
{
"ResourceType": "Address",
"ResourceId": "eip-l3utrim",
"AddressIp": "193.112.214.252"
},
{
"ResourceType": "Address",
"ResourceId": "eip-biawxrrg",
"AddressIp": "193.112.161.62"
},
{
"ResourceType": "Address",
"ResourceId": "eip-gm8dcbmw",
"AddressIp": "129.204.145.2"
},
{
"ResourceType": "Address",
"ResourceId": "eip-f3yjemhw",
```

```
"AddressIp": "134.175.169.60"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-oahxub36",
  "AddressIp": "106.53.87.77"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-ej9oasck",
  "AddressIp": "193.112.186.94"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-iivgnxr6",
  "AddressIp": "106.52.155.79"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-9pva2ne6",
  "AddressIp": "106.52.167.45"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-fqexkiku",
  "AddressIp": "129.204.251.201"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-dorh1ejy",
  "AddressIp": "106.55.92.150"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-pdxzxuzs",
  "AddressIp": "42.194.204.43"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-26tl14zo",
  "AddressIp": "106.52.248.58"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-1n624fs0",
  "AddressIp": "106.55.63.197"
},
```

```
{
  "ResourceType": "Address",
  "ResourceId": "eip-j4s0mcug",
  "AddressIp": "106.55.92.154"
},
{
  "Bandwidth": 500
},
{
  "RequestId": "e0ee5afd-a684-4a4c-9fff-ef5d626aed46"
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InvalidParameter.InvalidFilter	The filter rule is invalid.

InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.InvalidBandwidthPackageChargeType	Invalid billing mode of bandwidth package
UnsupportedOperation	Unsupported operation.

# DescribeBandwidthPackageQuota

最近更新时间：2023-08-23 14:11:38

## 1. API Description

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

This API is used to query the maximum and used number of bandwidth packages under the 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	<a href="#">Common Params</a> . The value used for this API: DescribeBandwidthPackageQuota.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.

## 3. Output Parameters

Parameter Name	Type	Description
QuotaSet	Array of <a href="#">Quota</a>	The quota of the bandwidth package.

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

## 4. Example

### Example1 Querying the bandwidth package quota

This example shows you how to query the bandwidth package quota.

#### Input Example

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

{ }
```

#### Output Example

```
{
  "Response": {
    "QuotaSet": [
      {
        "QuotaId": "TOTAL_BANDWIDTHPKG_QUOTA",
        "QuotaCurrent": 1,
        "QuotaLimit": 20
      }
    ],
    "RequestId": "8882b478-0d3a-4fe2-bae3-ff93865a199c"
  }
}
```

## 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
InvalidParameterValue.ResourceNotSupport	The resource does not support this operation.

# DeleteBandwidthPackage

最近更新时间：2023-08-23 14:11:38

## 1. API Description

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

This API is used to delete bandwidth packages, including [device bandwidth packages](#) and [IP bandwidth packages](#).

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteBandwidthPackage.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
BandwidthPackageId	Yes	String	The unique ID of the bandwidth package 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 locating a problem.

## 4. Example

### Example1 Deleting a bandwidth package

This example shows you how to delete a bandwidth package.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteBandwidthPackage
&BandwidthPackageId=bwp-cs7j6pd0
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "733e5cbd-da2d-43fb-89b5-083aad6d58f8"
  }
}
```

## 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.InvalidRegion	Unsupported region.
InternalServerError	Internal error.
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.BandwidthPackageInUse	The bandwidth package is in use.
InvalidParameterValue.BandwidthPackageNotFound	Failed to query the bandwidth package
InvalidParameterValue.StopChargingInstanceInUse	Operation failed: The instance to shut down is using the current resource.
LimitExceeded.AccountReturnQuota	Ran out of the quota for returning under this account.
UnsupportedOperation.BandwidthPackageIdNotSupported	This bandwidth package does not support this operation.
UnsupportedOperation.InvalidAddressState	This operation is not supported by the IP address status.
UnsupportedOperation.UnpaidOrderAlreadyExists	Overdue payments are found under this account. Please complete the payment first.

# CreateBandwidthPackage

最近更新时间：2023-08-23 14:11:39

## 1. API Description

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

This API is used to create a [device bandwidth package](#) or an [IP bandwidth package](#).

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateBandwidthPackage.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkType	No	String	The network type of the bandwidth package. Default value: <code>BGP</code> . Valid values: <code>BGP</code> <code>HIGH_QUALITY_BGP</code>
ChargeType	No	String	The billing mode of the bandwidth package. Default value: <code>TOP5_POSTPAID_BY_MONTH</code> . Valid values: <ul style="list-style-type: none"><li><code>TOP5_POSTPAID_BY_MONTH</code>: monthly top 5</li></ul>

			<ul style="list-style-type: none"> <li><code>PERCENT95_POSTPAID_BY_MONTH</code> : monthly 95th percentile</li> <li><code>FIXED_PREPAID_BY_MONTH</code> : monthly subscription</li> </ul>
BandwidthPackageName	No	String	The name of the bandwidth package.
BandwidthPackageCount	No	Integer	The number of bandwidth packages to create. Valid range: 1-20. It can only be "1" for bill-by-CVM accounts.
InternetMaxBandwidth	No	Integer	The limit of the bandwidth package in Mbps. The value '-1' indicates there is no limit. This feature is currently in beta.
Tags.N	No	Array of <a href="#">Tag</a>	The list of tags to be bound.
Protocol	No	String	The protocol type of the bandwidth package. Valid values: 'ipv4' and 'ipv6'. Default value: 'ipv4'.

### 3. Output Parameters

Parameter Name	Type	Description
BandwidthPackageId	String	The unique ID of the bandwidth package.
BandwidthPackageIds	Array of String	The unique ID list of the bandwidth package (effective only when you apply for more than 1 bandwidth packages).
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a bandwidth package

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateBandwidthPackage
&ChargeType=TOP5_POSTPAID_BY_MONTH
&NetworkType=BGP
&<Common request parameters>
```

## Output Example

```
{
  "Response": {
    "BandwidthPackageId": "bwp-8rol****",
    "BandwidthPackageIds": [
      "bwp-8rol****"
    ],
    "RequestId": "57741638-47c2-4c6d-ac84-b88eb83dad06"
  }
}
```

## 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.BalanceInsufficient	Insufficient account balance.
InternalServerError	Internal error.

InvalidAccount.NotSupported	This account is not supported.
InvalidParameterValue.Combination	Invalid input parameters
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
LimitExceeded.BandwidthPackageQuota	Exceeded the upper limit of the bandwidth package quota.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AccountNotSupported	This account is not supported.
UnsupportedOperation.InstanceStateNotSupported	This operation is not supported by the status of the instance bound with the IP address.
UnsupportedOperation.InvalidResourceInternetChargeType	This operation is not allowed under this billing mode.
UnsupportedOperation.NotSupportedPurchaseCenterEgressResource	
UnsupportedOperation.UnsupportedRegion	The service is not available in this country/region.



# AddBandwidthPackageResources

最近更新时间：2023-07-11 17:49:02

## 1. API Description

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

This API is used to add resources to a bandwidth package, including [Elastic IP](#), [Cloud Load Balancer](#), and so on.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AddBandwidthPackageResources.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ResourceIds.N	Yes	Array of String	The unique ID of the source, such as 'eip-xxxx' and 'lb-xxxx'. EIP and LB resources are currently supported.
BandwidthPackageId	No	String	The unique ID of the bandwidth package, such as 'bwp-xxxx'.
NetworkType	No	String	The network type of the bandwidth package. Valid value: <code>BGP</code> , indicating that the internal resource is a BGP IP.
ResourceType	No	String	The resource type, including <code>Address</code> and <code>LoadBalance</code> .

Protocol	No	String	The protocol type of the bandwidth package. Valid values: <code>ipv4</code> and <code>ipv6</code> .
----------	----	--------	---

### 3. Output Parameters

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

### 4. Example

#### Example1 Adding resource to a bandwidth package

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AddBandwidthPackageResources
&BandwidthPackageId=bwp-e40edw8y
&ResourceType=Address
&ResourceIds.0=eip-pezo0i0bs
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "2ece8f4a-c0f5-4b83-8054-a9b808a5c465"
  }
}
```

### 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
InternalServerError	Internal error.
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.BandwidthPackageNotFound	Failed to query the bandwidth package
InvalidParameterValue.Combination	Invalid input parameters
InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.ResourceAlreadyExisted	The resource has already added to another bandwidth package.
InvalidParameterValue.ResourceIdMalformed	The resource ID is incorrect.
InvalidParameterValue.ResourceNotFound	This resource is not found.
LimitExceeded.BandwidthPackageQuota	Exceeded the upper limit of the bandwidth package quota.
MissingParameter	Missing parameter.
UnsupportedOperation.BandwidthPackageIdNotSupported	This bandwidth package does not support this operation.

UnsupportedOperation.InstanceStateNotSupported	This operation is not supported by the status of the instance bound with the IP address.
UnsupportedOperation.InvalidResourceInternetChargeType	This operation is not allowed under this billing mode.
UnsupportedOperation.InvalidResourceProtocol	Bandwidth packages inapplicable to this protocol

# DescribeBandwidthPackageResources

最近更新时间：2023-08-23 14:11:38

## 1. API Description

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

This API is used to query resources in a bandwidth package based on the unique package ID. You can filter the result by specifying conditions and paginate the query results.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeBandwidthPackageResources.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
BandwidthPackageId	Yes	String	Unique ID of the bandwidth package in the form of <code>bwp-11112222</code> .
Filters.N	No	Array of <a href="#">Filter</a>	Each request can have up to 10 <code>Filters</code> and 5 <code>Filter.Values</code> . <code>AddressIds</code> and <code>Filters</code> cannot be specified at the same time. The specific filter conditions are as follows: <ul style="list-style-type: none"><li>resource-id - String - Required: no - (Filter condition) Filters by the unique ID of resources in a bandwidth package, such as <code>eip-11112222</code>.</li></ul>

			<ul style="list-style-type: none"> <li>resource-type - String - Required: no - (Filter condition) Filters by the type of resources in a bandwidth package. It now supports only EIP ( <code>Address</code> ) and load balancer ( <code>LoadBalance</code> ).</li> </ul>
Offset	No	Integer	The offset. Default value: 0. For more information on <code>Offset</code> , see the relevant sections in API <a href="#">Introduction</a> .
Limit	No	Integer	The number of returned results. Default value: 20. Maximum value: 100. For more information on <code>Limit</code> , see the relevant sections in API <a href="#">Introduction</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of eligible resources in the bandwidth package.
ResourceSet	Array of <a href="#">Resource</a>	The list of resources in the bandwidth package.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying resources in a bandwidth package

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeBandwidthPackageResources
&BandwidthPackageId=bwp-7umna1lo
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "ResourceSet": [
```

```

{
  "ResourceType": "Address",
  "ResourceId": "eip-60z7i46d",
  "AddressIp": "139.199.XX.XX"
},
{
  "ResourceType": "Address",
  "ResourceId": "eip-d97psd1o",
  "AddressIp": "139.198.XX.XX"
}
],
"RequestId": "ecaa7a90-a2fd-4fa3-8bf8-7d0723c95a99"
}
}
    
```

## 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

InvalidParameter	A parameter error occurred.
InvalidParameter.InvalidFilter	The filter rule is invalid.
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.BandwidthPackageNotFound	Failed to query the bandwidth package
InvalidParameterValue.Illegal	



# DescribeBandwidthPackageBillUsage

最近更新时间：2023-07-11 17:49:02

## 1. API Description

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

This API is used to query the current billable usage of a pay-as-you-go bandwidth package.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeBandwidthPackageBillUsage.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
BandwidthPackageId	Yes	String	Unique ID of the pay-as-you-go bandwidth package.

## 3. Output Parameters

Parameter Name	Type	Description
BandwidthPackageBillBandwidthSet	Array of <a href="#">BandwidthPackageBillBandwidth</a>	Current billable usage.

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

## 4. Example

### Example1 Querying the current billable usage of a bandwidth package

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeBandwidthPackageBillUsage
&BandwidthPackageId=bwp-pply3nak
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "BandwidthPackageBillBandwidthSet": [
      {
        "BandwidthUsage": 1
      }
    ],
    "RequestId": "f30a042c-0234-4474-99e5-2f16be243be5"
  }
}
```

## 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
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.BandwidthPackageNotFound	Failed to query the bandwidth package
UnsupportedOperation.BandwidthPackageIdNotSupported	This bandwidth package does not support this operation.

# NAT Gateway APIs

## DescribeNatGateways

最近更新时间：2023-08-23 14:11:26

### 1. API Description

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

This API is used to query NAT gateways.

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

We recommend you to use API Explorer

[Try it](#)

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNatGateways.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayIds.N	No	Array of String	The unified ID of the NAT gateways, such as <code>nat-123xx454</code> .
Filters.N	No	Array of <a href="#">Filter</a>	Filters. <code>NatGatewayIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li>• nat-gateway-id - String - (Filter) The ID of the protocol port template instance, such as <code>nat-123xx454</code>.</li></ul>

			<ul style="list-style-type: none"> <li><code>vpc-id</code> - String - (Filter) The unique ID of the VPC, such as <code>vpc-123xx454</code> .</li> <li><code>nat-gateway-name</code> - String - (Filter) The ID of the protocol port template instance, such as <code>test_nat</code> .</li> <li><code>tag-key</code> - String - (Filter) The tag key, such as <code>test-key</code> .</li> </ul>
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

### 3. Output Parameters

Parameter Name	Type	Description
NatGatewaySet	Array of <a href="#">NatGateway</a>	NAT gateway object array.
TotalCount	Integer	The number of eligible NAT gateway objects.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying NAT gateway information-2

This example shows you how to use `NatGatewayIds` to query the NAT gateway information.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNatGateways
&NatGatewayIds.0=nat-3isn9hr0
&NatGatewayIds.1=nat-mxkohguo
&Offset=0
&Limit=10
&<common request parameters>
```

#### Output Example

```

{
  "Response": {
    "NatGatewaySet": [
      {
        "NatGatewayId": "nat-3isn9hr0",
        "NatGatewayName": "test",
        "VpcId": "vpc-0yi4hekt",
        "CreatedTime": "2017-09-20 20:28:24",
        "State": "AVAILABLE",
        "NetworkState": "RUNNING",
        "InternetMaxBandwidthOut": 100,
        "MaxConcurrentConnection": 1000000,
        "SecurityGroupSet": [],
        "ExclusiveGatewayBandwidth": 1,
        "IsExclusive": true,
        "SubnetId": "sub-er88uji9",
        "DirectConnectGatewayIds": [],
        "SourceIpTranslationNatRuleSet": [],
        "PublicIpAddressSet": [
          {
            "AddressId": "eip-7qcdm91q",
            "PublicIpAddress": "139.199.232.238",
            "IsBlocked": false
          }
        ],
        "DestinationIpPortTranslationNatRuleSet": [
          {
            "IpProtocol": "TCP",
            "PublicIpAddress": "139.199.232.238",
            "PublicPort": 8586,
            "PrivateIpAddress": "10.80.80.41",
            "PrivatePort": 8989,
            "Description": "test_modify"
          },
          {
            "IpProtocol": "UDP",
            "PublicIpAddress": "139.199.232.238",
            "PublicPort": 8989,
            "PrivateIpAddress": "10.80.80.41",
            "PrivatePort": 8989,
            "Description": "test_dnapt"
          }
        ],
        "Zone": "ap-guangzhou-1",
        "TagSet": [
          {

```

```
"Key": "test-key",
"Value": "test-value1"
}
],
},
{
  "NatGatewayId": "nat-mxkohguo",
  "NatGatewayName": "aaaaaa",
  "VpcId": "vpc-m7sihqw5",
  "CreatedTime": "2018-07-25 11:37:29",
  "State": "PENDING",
  "NetworkState": "UNAVAILABLE",
  "InternetMaxBandwidthOut": 100,
  "MaxConcurrentConnection": 1000000,
  "PublicIpAddressSet": [],
  "DestinationIpPortTranslationNatRuleSet": [],
  "Zone": "ap-guangzhou-1",
  "TagSet": [
    {
      "Key": "test-key",
      "Value": "test-value2"
    }
  ],
  "SecurityGroupSet": [],
  "ExclusiveGatewayBandwidth": 1,
  "IsExclusive": true,
  "SubnetId": "sub-er88uji9",
  "DirectConnectGatewayIds": [],
  "SourceIpTranslationNatRuleSet": []
}
],
"TotalCount": 2,
"RequestId": "fed7e087-083f-49e4-8754-17fb130828e0"
}
```

## Example2 Querying NAT gateway information

This example shows you how to use `Filters` to query the NAT gateway information.

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNatGateways
&Filters.0.Name=vpc-id
&Filters.0.Values.0=vpc-0yi4hekt
&Offset=0
```

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

## Output Example

```
{
  "Response": {
    "NatGatewaySet": [
      {
        "NatGatewayId": "nat-3isn9hr0",
        "NatGatewayName": "test",
        "VpcId": "vpc-0yi4hekt",
        "CreatedTime": "2017-09-20 20:28:24",
        "State": "AVAILABLE",
        "NetworkState": "RUNNING",
        "InternetMaxBandwidthOut": 100,
        "MaxConcurrentConnection": 1000000,
        "PublicIpAddressSet": [
          {
            "AddressId": "eip-7qcdm91q",
            "PublicIpAddress": "139.199.232.238",
            "IsBlocked": false
          }
        ],
        "DestinationIpPortTranslationNatRuleSet": [
          {
            "IpProtocol": "TCP",
            "PublicIpAddress": "139.199.232.238",
            "PublicPort": 8586,
            "PrivateIpAddress": "10.80.80.41",
            "PrivatePort": 8989,
            "Description": "test_modify"
          },
          {
            "IpProtocol": "UDP",
            "PublicIpAddress": "139.199.232.238",
            "PublicPort": 8989,
            "PrivateIpAddress": "10.80.80.41",
            "PrivatePort": 8989,
            "Description": "test_dnapt"
          }
        ],
        "Zone": "ap-guangzhou-1",
        "TagSet": [
          {
            "Key": "test-key",
```



```
"Value": "test-value3"
},
],
"SecurityGroupSet": [],
"ExclusiveGatewayBandwidth": 1,
"IsExclusive": true,
"SubnetId": "sub-er88uji9",
"DirectConnectGatewayIds": [],
"SourceIpTranslationNatRuleSet": []
},
{
"NatGatewayId": "nat-7xh58vea",
"NatGatewayName": "test_create",
"VpcId": "vpc-0yi4hekt",
"CreatedTime": "2019-05-04 15:01:11",
"State": "PENDING",
"NetworkState": "RUNNING",
"InternetMaxBandwidthOut": 100,
"MaxConcurrentConnection": 1000000,
"PublicIpAddressSet": [],
"DestinationIpPortTranslationNatRuleSet": [],
"Zone": "ap-guangzhou-2",
"TagSet": [
{
"Key": "test-key",
"Value": "test-value4"
}
],
"SecurityGroupSet": [],
"ExclusiveGatewayBandwidth": 1,
"IsExclusive": true,
"SubnetId": "sub-er88uji9",
"DirectConnectGatewayIds": [],
"SourceIpTranslationNatRuleSet": []
}
],
"TotalCount": 2,
"RequestId": "a3964872-e2f5-4180-8607-0b49ec8e0109"
}
}
```

## 5. Developer Resources

### SDK

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.ActionNotFound	The port does not exist.

# ResetNatGatewayConnection

最近更新时间：2023-08-23 14:11:25

## 1. API Description

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

This API is used to adjust concurrent connection cap for the NAT gateway.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ResetNatGatewayConnection.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayId	Yes	String	The NAT gateway ID.
MaxConcurrentConnection	Yes	Integer	Concurrent connections cap of the NAT gateway, such as 1000000, 3000000, 10000000.

## 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 Increasing the maximum concurrent connections of a NAT gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ResetNatGatewayConnection
&NatGatewayId=nat-ig8xpno8
&MaxConcurrentConnection=3000000
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

## 5. Developer Resources

### SDK

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

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InsufficientFunds	Insufficient account balance.
UnsupportedOperation.UnpaidOrderAlreadyExists	Overdue payments are found under this account. Please complete the payment first.

# ModifyNatGatewayDestinationIpPortTranslationNatRule

最近更新时间：2023-08-23 14:11:26

## 1. API Description

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

This API is used to modify the port forwarding rule of a NAT gateway.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for ModifyNatGatewayDestinationIpPort
Version	Yes	String	<a href="#">Common Params</a> . The value used for 12.
Region	No	String	<a href="#">Common Params</a> . This parameter is API.
NatGatewayId	Yes	String	The ID of the NAT gateway, such as
SourceNatRule	Yes	<a href="#">DestinationIpPortTranslationNatRule</a>	The port forwarding rule of the source
DestinationNatRule	Yes	<a href="#">DestinationIpPortTranslationNatRule</a>	The port forwarding rule of the destination

### 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 forwarding rules of a NAT gateway

This example shows you how to modify the port forwarding rules of a NAT gateway. To modify the source rules (SourceNatRule), you only need to pass in `IpProtocol` , `PublicIpAddress` , and `PublicPort` . To modify the destination rules (DestinationNatRule), pass in all the parameters to be modified.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyNatGatewayDestinationIpPortTranslationNatRule
&NatGatewayId=nat-3isn9hr0
&SourceNatRule.IpProtocol=TCP
&SourceNatRule.PublicIpAddress=139.199.232.238
&SourceNatRule.PublicPort=8989
&SourceNatRule.Description=xx
&SourceNatRule.PrivateIpAddress=10.0.8.9
&SourceNatRule.PrivatePort=9090
&DestinationNatRule.IpProtocol=UDP
&DestinationNatRule.PublicIpAddress=139.199.232.226
&DestinationNatRule.PublicPort=8586
&DestinationNatRule.PrivateIpAddress=10.80.80.41
&DestinationNatRule.PrivatePort=8586
&DestinationNatRule.Description=test_modify
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

## 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.NatGatewayDnatRuleNotExists	The DNAT forwarding rule of the NAT gateway does not exist.
InvalidParameterValue.NatGatewayDnatRulePipNeedVm	The private IP of the DNAT translation rule must be an IP used by the ENI of the virtual machine.
UnsupportedOperation.NatGatewayRulePipExists	The private IP specified in the SNAT/DNAT forwarding rule has been bound with another rule.
UnsupportedOperation.RecordExists	This record already exists.



# ModifyNatGatewayAttribute

最近更新时间：2023-08-23 14:11:26

## 1. API Description

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

This API is used to modify the attributes of a NAT gateway.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyNatGatewayAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayId	Yes	String	The ID of the NAT gateway, such as <code>nat-df45454</code> .
NatGatewayName	No	String	The NAT gateway name, such as <code>test_nat</code> .
InternetMaxBandwidthOut	No	Integer	The maximum outbound bandwidth of the NAT gateway. Unit: Mbps.
ModifySecurityGroup	No	Boolean	Whether to modify the security group bound to the NAT gateway

SecurityGroupIds.N	No	Array of String	The final security groups bound to the NAT Gateway, such as <code>['sg-1n232323', 'sg-o4242424']</code> . An empty list indicates that all the security groups have been deleted.
--------------------	----	-----------------	---

### 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 attributes of a NAT Gateway

This example shows you how to modify the NAT gateway name and maximum outbound bandwidth. To adjust the maximum concurrent connections of a NAT gateway, please use

```
ResetNatGatewayConnection .
```

#### Input Example

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

{
  "InternetMaxBandwidthOut": "500",
  "NatGatewayId": "nat-ig8xpno8",
  "NatGatewayName": "Test natNAT gateway"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "e5c289dc-bf4b-4828-8093-3c434d1f0886"
  }
}
```

```
}  
}
```

## Example2 Changing the SNAT mode of a NAT gateway

This example shows you how to modify the `StrictSnatMode` status of a NAT gateway

### Input Example

```
POST / HTTP/1.1  
Host: vpc.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: ModifyNatGatewayAttribute  
<Common request parameters>  
  
{  
  "NatGatewayId": "nat-owj32fec"  
}
```

### Output Example

```
{  
  "Response": {  
    "RequestId": "5acefde4-3be5-4582-a432-742081e1c904"  
  }  
}
```

## 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.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DisassociateNatGatewayAddress

最近更新时间：2023-08-23 14:11:26

## 1. API Description

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

This API is used to unbind an EIP from a NAT gateway.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DisassociateNatGatewayAddress.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayId	Yes	String	The ID of the NAT gateway, such as <code>nat-df45454</code> .
PublicIpAddresses.N	Yes	Array of String	Array of the EIPs to be unbound from the NAT gateway.

## 3. Output Parameters

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

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

## 4. Example

### Example1 Unbinding an EIP from a NAT gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DisassociateNatGatewayAddress
&NatGatewayId=nat-mdbjfr0y
&PublicIpAddresses.0=139.199.232.212
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

## 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.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.PublicIpAddressDisassociate	At least one EIP exists on the NAT gateway, and the EIP cannot be unbound.

# DescribeNatGatewayDestinationIpPortTranslationNatRules

最近更新时间：2023-08-23 14:11:27

## 1. API Description

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

This API is used to query the array of objects of a NAT gateway's port forwarding rules.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNatGatewayDestinationIpPortTranslationNatRules.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayIds.N	No	Array of String	NAT gateway ID.
Filters.N	No	Array of <a href="#">Filter</a>	Filters: <code>NatGatewayIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li><code>nat-gateway-id</code>: The NAT gateway ID, such as <code>nat-0yi4hekt</code>.</li></ul>



			<ul style="list-style-type: none"> <li><code>vpc-id</code> : The VPC ID, such as <code>vpc-0yi4hekt</code> .</li> <li><code>public-ip-address</code> : The EIP, such as <code>139.199.232.238</code> .</li> <li><code>public-port</code> : The public network port.</li> <li><code>private-ip-address</code> : The private IP, such as <code>10.0.0.1</code> .</li> <li><code>private-port</code> . The private network port.</li> <li><code>description</code> . The rule description.</li> </ul>
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

### 3. Output Parameters

Parameter Name	Type	Description
<code>NatGatewayDestinationIpPortTranslationNatRuleSet</code>	Array of <a href="#">NatGatewayDestinationIpPortTranslationNatRule</a>	The array of port forwarding rules for the NAT gateway.
<code>TotalCount</code>	Integer	The number of eligible objects in the array of NAT forwarding rules.
<code>RequestId</code>	String	The request ID for the request. Request ID is returned.

## 4. Example

### Example1 Querying the port forwarding rules of specified NAT gateways

This example shows you how to query the port forwarding rules by specifying `NatGatewayId`.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNatGatewayDestinationIpPortTranslationNatRules
&NatGatewayIds.0=nat-3isn9hr0
&Offset=0
&Limit=10
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "NatGatewayDestinationIpPortTranslationNatRuleSet": [
      {
        "IpProtocol": "TCP",
        "PublicIpAddress": "139.199.232.238",
        "PublicPort": 8989,
        "PrivateIpAddress": "10.80.80.41",
        "PrivatePort": 8989,
        "Description": "test_dnapt",
        "CreatedTime": "2019-05-04 13:09:25",
        "NatGatewayId": "nat-3isn9hr0",
        "VpcId": "vpc-0yi4hekt"
      },
      {
        "IpProtocol": "UDP",
        "PublicIpAddress": "139.199.232.238",
        "PublicPort": 8989,
        "PrivateIpAddress": "10.80.80.41",
        "PrivatePort": 8989,
        "Description": "test_dnapt",
        "CreatedTime": "2019-05-04 13:20:20",
        "NatGatewayId": "nat-3isn9hr0",

```

```
"VpcId": "vpc-0yi4hekt"
}
],
"RequestId": "9b751ec3-d10a-4138-bdd9-fa5564684e60"
}
}
```

## Example2 Querying the port forwarding rules of NAT gateways

This example shows you how to use the `Filter` array to obtain the port forwarding rules of a NAT gateway.

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNatGatewayDestinationIpPortTranslationNatRules
&Filters.0.Name=vpc-id
&Filters.0.Values.0=vpc-0yi4hekt
&<common request parameters>
```

### Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "NatGatewayDestinationIpPortTranslationNatRuleSet": [
      {
        "IpProtocol": "TCP",
        "PublicIpAddress": "139.199.232.238",
        "PublicPort": 8989,
        "PrivateIpAddress": "10.80.80.41",
        "PrivatePort": 8989,
        "Description": "test_dnapt",
        "CreatedTime": "2019-05-04 13:42:11",
        "NatGatewayId": "nat-3isn9hr0",
        "VpcId": "vpc-0yi4hekt"
      },
      {
        "IpProtocol": "UDP",
        "PublicIpAddress": "139.199.232.238",
        "PublicPort": 8989,
        "PrivateIpAddress": "10.80.80.41",
        "PrivatePort": 8989,
        "Description": "test_dnapt",
        "CreatedTime": "2019-05-04 13:20:20",
        "NatGatewayId": "nat-3isn9hr0",
        "VpcId": "vpc-0yi4hekt"
      }
    ]
  }
}
```

```
}
],
"RequestId": "eb203971-a7a0-45c1-9c72-36ad86688590"
}
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
InternalServerError	Internal error.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidParameter	A parameter error occurred.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.

InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
UnauthorizedOperation	Unauthorized operation.

# DeleteNatGatewayDestinationIpPortTranslationNatRule

最近更新时间：2023-08-23 14:11:27

## 1. API Description

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

This API is used to delete the port forwarding rule of a NAT gateway.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Parameter</a> DeleteNatGateway
Version	Yes	String	<a href="#">Common Parameter</a> 12.
Region	No	String	<a href="#">Common Parameter</a> API.
NatGatewayId	Yes	String	The ID of the NAT gateway.
DestinationIpPortTranslationNatRules.N	Yes	Array of <a href="#">DestinationIpPortTranslationNatRule</a>	The port forwarding rules.

### 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 port forwarding rules of a NAT gateway

This example shows you how to delete the port forwarding rules of a NAT gateway.

##### Input Example

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

{
  "NatGatewayId": "nat-3isn9hr0",
  "DestinationIpPortTranslationNatRules": [
    {
      "Description": "xx",
      "PublicIpAddress": "139.199.232.238",
      "PrivatePort": 9999,
      "IpProtocol": "TCP",
      "PublicPort": 999,
      "PrivateIpAddress": "10.0.9.2"
    }
  ]
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

## 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.NatGatewayDnatRuleNotExists	The DNAT forwarding rule of the NAT gateway does not exist.
ResourceNotFound	The resource does not exist.



# DeleteNatGateway

最近更新时间：2023-08-23 14:11:27

## 1. API Description

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

This API is used to delete a NAT gateway.

When a NAT gateway is deleted, all routes containing this gateway are deleted automatically, and the elastic IP is unbound.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteNatGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayId	Yes	String	The ID of the NAT gateway, such as <code>nat-df45454</code> .

## 3. Output Parameters

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

locating a problem.

## 4. Example

### Example1 Deleting a NAT gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteNatGateway
&NatGatewayId=nat-ig8xpno8
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

## 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.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# CreateNatGatewayDestinationIpPortTranslationNatRule

最近更新时间：2023-08-23 14:11:28

## 1. API Description

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

This API is used to create the port forwarding rules of a NAT gateway.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Parameter</a> CreateNatGateway
Version	Yes	String	<a href="#">Common Parameter</a> 12.
Region	No	String	<a href="#">Common Parameter</a> API.
NatGatewayId	Yes	String	The ID of the NAT gateway.
DestinationIpPortTranslationNatRules.N	Yes	Array of <a href="#">DestinationIpPortTranslationNatRule</a>	The port forwarding rules.

### 3. Output Parameters

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

### 4. Example

#### Example1 Creating NAT forwarding rules

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateNatGatewayDestinationIpPortTranslationNatRule
&NatGatewayId=nat-3isn9hr0
&DestinationIpPortTranslationNatRules.0.IpProtocol=TCP
&DestinationIpPortTranslationNatRules.0.PublicIpAddress=139.199.232.238
&DestinationIpPortTranslationNatRules.0.PublicPort=8989
&DestinationIpPortTranslationNatRules.0.PrivateIpAddress=10.80.80.41
&DestinationIpPortTranslationNatRules.0.PrivatePort=8989
&DestinationIpPortTranslationNatRules.0.Description=test_dnapt
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "14f7ea4e-8452-4742-84b5-5a3aee304967"
  }
}
```

### 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 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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.NatGatewayDnatRuleExisted	The DNAT forwarding rule of the NAT gateway already exists.
InvalidParameterValue.NatGatewayDnatRulePipNeedVm	The private IP of the DNAT translation rule must be an IP used by the ENI of the virtual machine.
InvalidParameterValue.NatGatewayDnatRuleRepeated	The DNAT rule of the NAT gateway to add already exists.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.NatGatewayEipNotExists	The public IP of the NAT gateway does not exist.

# CreateNatGateway

最近更新时间：2023-08-23 14:11:28

## 1. API Description

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

This API is used to create a NAT Gateway.

Before taking actions on a NAT gateway, ensure that it has been successfully created, namely, the `State` field in the response of the `DescribeNatGateway` API is `AVAILABLE`.

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

We recommend you to use API Explorer

[Try it](#)

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

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateNatGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayName	Yes	String	NAT gateway name
VpcId	Yes	String	The ID of the VPC instance, which can be obtained from the <code>VpcId</code> field in response of the <code>DescribeVpcs</code> API.
InternetMaxBandwidthOut	No	Integer	The maximum outbound bandwidth of the

			NAT gateway (unit: Mbps). Supported parameter values: 20, 50, 100, 200, 500, 1000, 2000, 5000 . Default: 100 .
MaxConcurrentConnection	No	Integer	The concurrent connection cap of the NAT gateway. Values: 1000000, 3000000, 10000000 . The default value is 1000000 .
AddressCount	No	Integer	The number of EIPs that you want to apply for. Either AddressCount or PublicIpAddresses must be passed in.
PublicIpAddresses.N	No	Array of String	The EIP array bound to the NAT gateway. Either AddressCount or PublicIpAddresses must be passed in.
Zone	No	String	The availability zone, such as ap-guangzhou-1 .
Tags.N	No	Array of Tag	Bound tags, such as [{"Key": "city", "Value": "shanghai"}]
SubnetId	No	String	Subnet of the NAT gateway
StockPublicIpAddressesBandwidthOut	No	Integer	The bandwidth size (in Mbps) of the EIP bound to the NAT gateway, which defaults to the maximum value applicable for the current user type.
PublicIpAddressesBandwidthOut	No	Integer	The size of the public network IP bandwidth to be applied for (in Mbps), which defaults to the maximum value applicable for the current user type.
PublicIpFromSameZone	No	Boolean	Whether the public IP and the NAT gateway must be in the same availability zone. Valid values: true and false . This parameter is valid only when Zone is specified.

### 3. Output Parameters



Parameter Name	Type	Description
NatGatewaySet	Array of <a href="#">NatGateway</a>	NAT gateway object array.
TotalCount	Integer	The number of eligible NAT gateway objects.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating a NAT gateway

This example shows you how to create a classic NAT gateway and get an auto-assigned EIP.

#### Input Example

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

{
  "VpcId": "vpc-abcdefgh",
  "PublicIpAddresses": [
    "139.199.232.119"
  ],
  "MaxConcurrentConnection": "1000000",
  "Tags": [
    {
      "Value": "shanghai",
      "Key": "city"
    }
  ],
  "InternetMaxBandwidthOut": "10",
  "NatGatewayName": "test_name",
  "AddressCount": "1"
}
```

#### Output Example

```
{
  "Response": {
    "NatGatewaySet": [
      {
        "NatGatewayId": "nat-cqbn23ju",
        "NatGatewayName": "11111",
        "VpcId": "vpc-qi4ja3sx",
        "CreatedTime": "2019-07-16 09:40:00",
        "State": "AVAILABLE",
        "NetworkState": "AVAILABLE",
        "InternetMaxBandwidthOut": 10,
        "MaxConcurrentConnection": 1000000,
        "SecurityGroupSet": [],
        "PublicIpAddressSet": [
          {
            "AddressId": "eip-9uw5fwsu",
            "PublicIpAddress": "139.199.232.119",
            "IsBlocked": false
          },
          {
            "AddressId": "eip-9uw5fsss",
            "PublicIpAddress": "139.199.232.221",
            "IsBlocked": false
          }
        ],
        "DestinationIpPortTranslationNatRuleSet": [],
        "DirectConnectGatewayIds": [],
        "Zone": "ap-guangzhou-2",
        "ExclusiveGatewayBandwidth": 1,
        "IsExclusive": true,
        "RestrictState": "NORMAL",
        "SourceIpTranslationNatRuleSet": [],
        "SubnetId": "1215354",
        "TagSet": [
          {
            "Key": "city",
            "Value": "shanghai"
          }
        ],
        "TotalCount": 1,
        "RequestId": "6f2a42cf-2905-4fa5-af49-0f01612550de"
      }
    ]
  }
}
```

## Example2 Creating a u200dstandard NAT u200dgateway

This example shows you how to create a standard NAT gateway and get an auto-assigned EIP.

### Input Example

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

{
  "SubnetId": "subnet-q1b8fsg",
  "AddressCount": "1",
  "NatGatewayName": "xiaoliang_test",
  "VpcId": "vpc-bohigpb7"
}
```

### Output Example

```
{
  "Response": {
    "NatGatewaySet": [
      {
        "NatGatewayId": "nat-o49t53q2",
        "NatGatewayName": "xiaoliang_test",
        "VpcId": "vpc-bohigpb7",
        "State": "PENDING",
        "NetworkState": "AVAILABLE",
        "InternetMaxBandwidthOut": 100,
        "MaxConcurrentConnection": 1000000,
        "PublicIpAddressSet": [],
        "DestinationIpPortTranslationNatRuleSet": [],
        "CreatedTime": "0000-00-00 00:00:00",
        "Zone": "",
        "TagSet": [],
        "DirectConnectGatewayIds": [],
        "SubnetId": "subnet-q1b8fsgu",
        "SecurityGroupSet": [],
        "SourceIpTranslationNatRuleSet": [],
        "IsExclusive": false,
        "RestrictState": "NORMAL",
        "ExclusiveGatewayBandwidth": null
      }
    ],
  }
}
```

```

"TotalCount": 1,
"RequestId": "7b00a07c-7358-4f0a-b81c-8ce5882a87b8"
}
}
    
```

## 5. Developer Resources

### SDK

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

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

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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

Error Code	Description
AddressQuotaLimitExceeded	The account quota is reached. Each Tencent Cloud account can create up to 20 EIPs in each region.
InternalError.ModuleError	Internal module error
InternalServerError	Internal error.
InvalidAccount.NotSupported	This account is not supported.
InvalidAddressState	The operation cannot be performed on the

	specified EIP in current status.
InvalidParameter	A parameter error occurred.
InvalidParameterValue.EIPBrandWidthOutInvalid	Exceeded the upper limit.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
InvalidVpcId.Malformed	Invalid VPC. The VPC instance ID is invalid.
InvalidVpcId.NotFound	Invalid VPC. The VPC resource does not exist.
LimitExceeded.AddressQuotaLimitExceeded	The number of EIPs applied for exceeds the upper limit.

LimitExceeded.DailyAllocateAddressQuotaLimitExceeded	The number of EIPs applied for per day exceeds the upper limit.
LimitExceeded.NatGatewayLimitExceeded	Reached the upper limit of NAT gateways.
LimitExceeded.NatGatewayPerVpcLimitExceeded	The number of NAT gateways created by the VPC has reached the upper limit.
LimitExceeded.PublicIpAddressPerNatGatewayLimitExceeded	The number of EIPs bound to the NAT gateway has reached the upper limit.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
ResourceInUse.Address	The specified IP address is already in use.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.NoRealNameAuthentication	Identity verification has not been completed for the account.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InsufficientFunds	Insufficient account balance.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.NatGatewayHadEipUnassociate	There are IPs associated with this NAT gateway.
UnsupportedOperation.PublicIpAddressIsNotBGPIp	The EIP bound to the NAT gateway is not a BGP IP.
UnsupportedOperation.PublicIpAddressIsNotExisted	The EIP bound to the NAT gateway does not exist.
UnsupportedOperation.PublicIpAddressNotBilledByTraffic	The EIP bound to the NAT gateway is not bill-by-traffic.

UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# AssociateNatGatewayAddress

最近更新时间：2023-08-23 14:11:28

## 1. API Description

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

This API is used to bind an EIP to a NAT gateway.

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

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AssociateNatGatewayAddress.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayId	Yes	String	The ID of the NAT gateway, such as <code>nat-df45454</code> .
AddressCount	No	Integer	The number of EIPs you want to apply for. Either <code>AddressCount</code> or <code>PublicAddresses</code> must be passed in.
PublicIpAddresses.N	No	Array of String	Array of the EIPs bound to the NAT gateway. Either <code>AddressCount</code> or <code>PublicAddresses</code> must be passed in.



Zone	No	String	The availability zone of the EIP, which is passed in when the EIP is automatically assigned.
StockPublicIpAddressesBandwidthOut	No	Integer	The bandwidth size (in Mbps) of the EIP bound to the NAT gateway, which defaults to the maximum value applicable for the current user type.
PublicIpAddressesBandwidthOut	No	Integer	The size of the public network IP bandwidth to be applied for (in Mbps), which defaults to the maximum value applicable for the current user type.
PublicIpFromSameZone	No	Boolean	Whether the public IP and the NAT gateway must be in the same availability zone. Valid values: <code>true</code> and <code>false</code> . This parameter is valid only when <code>Zone</code> is specified.

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Binding an EIP to a NAT gateway

Binding an EIP to a NAT gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AssociateNatGatewayAddress
&NatGatewayId=nat-mdbjfr0y
&PublicIpAddresses.0=139.199.232.212
&<Common request parameters>
```

## Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

## 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 .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameterValue.EIPBrandWidthOutInvalid	Exceeded the upper limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded.AddressQuotaLimitExceeded	The number of EIPs applied for exceeds the

	upper limit.
LimitExceeded.DailyAllocateAddressQuotaLimitExceeded	The number of EIPs applied for per day exceeds the upper limit.
LimitExceeded.PublicIpAddressPerNatGatewayLimitExceeded	The number of EIPs bound to the NAT gateway has reached the upper limit.
ResourceInUse	The resource is occupied.
ResourceInUse.Address	The specified IP address is already in use.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.
UnsupportedOperation.PublicIpAddressIsNotBGPip	The EIP bound to the NAT gateway is not a BGP IP.
UnsupportedOperation.PublicIpAddressIsNotExisted	The EIP bound to the NAT gateway does not exist.
UnsupportedOperation.PublicIpAddressNotBilledByTraffic	The EIP bound to the NAT gateway is not bill-by-traffic.

# ModifyNatGatewaySourceIpTranslationNatRule

最近更新时间：2023-08-23 14:11:25

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify a NAT gateway's SNAT forwarding rules.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for ModifyNatGatewaySourceIpTranslationNatRule.
Version	Yes	String	<a href="#">Common Params</a> . The value used for 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is required for this API.
NatGatewayId	Yes	String	The ID of the NAT Gateway, such as <code>df453454</code> .
SourceIpTranslationNatRule	Yes	<a href="#">SourceIpTranslationNatRule</a>	The SNAT forwarding rule of the NAT Gateway.

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Modifying an SNAT forwarding rule of the NAT gateway

This example shows you how to modify an SNAT forwarding rule of the NAT gateway by only specifying

`NatGatewaySnatId` , `PublicIpAddresses` and `Description` for `SourceIpTranslationNatRule` .

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyNatGatewaySourceIpTranslationNatRule
&NatGatewayId=nat-3isn9hr0
&SourceIpTranslationNatRule.NatGatewaySnatId=snat-4cnwed83
&SourceIpTranslationNatRule.ResourceId=cvm-24796297
&SourceIpTranslationNatRule.ResourceType=NETWORKINTERFACE
&SourceIpTranslationNatRule.PrivateIpAddress=10.80.80.41
&SourceIpTranslationNatRule.PublicIpAddresses.0=180.12.59.43
&SourceIpTranslationNatRule.Description=test_snat
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

### 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
InternalServerError	An internal error occurred.
InternalServerError	Internal error.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.NatGatewaySnatRuleNotExists	The SNAT forwarding rule of the NAT gateway does not exist.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.UnbindEIP	EIP is not bound.

# DescribeNatGatewaySourceIpTranslationNatRules

最近更新时间：2023-08-23 14:11:26

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the NAT gateway's SNAT forwarding rules.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNatGatewaySourceIpTranslationNatRules.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayId	Yes	String	The unique ID of the NAT Gateway, such as <code>nat-123xx454</code> .
Filters.N	No	Array of <a href="#">Filter</a>	Filter: <ul style="list-style-type: none"> <li><code>resource-id</code> : The subnet ID (such as <code>subnet-0yi4hekt</code> ) or CVM ID</li> <li><code>public-ip-address</code> : The EIP, such as <code>139.199.232.238</code></li> <li><code>description</code> : The rule description</li> </ul>

Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

### 3. Output Parameters

Parameter Name	Type	Description
SourceIpTranslationNatRuleSet	Array of <a href="#">SourceIpTranslationNatRule</a>	Array of objects of a NAT gateway's SNAT rules. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
TotalCount	Integer	The number of eligible object arrays of a NAT gateway's forwarding rules.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the SNAT forwarding rules of a NAT gateway

This example shows you how to use the Filter array to obtain the SNAT forwarding rules of a NAT gateway.

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNatGatewaySourceIpTranslationNatRules
&NatGatewayId=nat-3isn9hr0
&Filters.0.Name=resource-id
&Filters.0.Values.0=subnet-0yi4hekt
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "SourceIpTranslationNatRuleSet": [
```



```
{
  "NatGatewaySnatId": "subnet-0yi4hekt",
  "ResourceId": "subnet-0yi4hekt",
  "ResourceType": "SUBNET",
  "PublicIpAddresses": [
    "139.199.232.238"
  ],
  "PrivateIpAddress": "10.80.80.0/24",
  "Description": "test_snat",
  "CreatedTime": "2019-05-04 13:42:11",
  "NatGatewayId": "nat-3isn9hr0",
  "VpcId": "vpc-0yi4hekt"
},
"RequestId": "eb203971-a7a0-45c1-9c72-36ad86688590"
}
```

## 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
InternalServerError	An internal error occurred.
InternalServerError	Internal error.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidParameter	A parameter error occurred.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

# DeleteNatGatewaySourceIpTranslationNatRule

最近更新时间：2023-08-23 14:11:27

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete a SNAT forwarding rule of a NAT gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteNatGatewaySourceIpTranslationNatRule.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayId	Yes	String	The ID of the NAT Gateway, such as <code>nat-df45454</code>
NatGatewaySnatIds.N	Yes	Array of String	The list of SNAT rule IDs of a NAT Gateway, such as <code>snat-df43254</code>

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting the SNAT forwarding rules of a NAT gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteNatGatewaySourceIpTranslationNatRule
&NatGatewayId=nat-3isn9hr0
&NatGatewaySnatIds.0=snat-3ixd0hr0
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "14f7ea4e-8452-4742-84b5-5a4aee304968"
  }
}
```

## 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
InternalServerError	An internal error occurred.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.NatGatewaySnatRuleNotExists	The SNAT forwarding rule of the NAT gateway does not exist.
ResourceNotFound	The resource does not exist.

# CreateNatGatewaySourceIpTranslationNatRule

最近更新时间：2023-08-23 14:11:28

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create SNAT rules for a NAT gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value use CreateNatGatewaySourceIpTra
Version	Yes	String	<a href="#">Common Params</a> . The value use 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter required for this API.
NatGatewayId	Yes	String	The ID of the NAT Gateway, such as <code>df45454</code>
SourceIpTranslationNatRules.N	Yes	Array of <a href="#">SourceIpTranslationNatRule</a>	The SNAT forwarding rule of the

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating an SNAT rule for the NAT gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateNatGatewaySourceIpTranslationNatRule
&NatGatewayId=nat-3isn9hr0
&SourceIpTranslationNatRules.0.ResourceId=cvm-24796297
&SourceIpTranslationNatRules.0.ResourceType=NETWORKINTERFACE
&SourceIpTranslationNatRules.0.PrivateIpAddress=10.80.80.41
&SourceIpTranslationNatRules.0.PublicIpAddresses.0=180.12.59.43
&SourceIpTranslationNatRules.0.Description=test_snat
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "14f7ea4e-8452-4742-84b5-5a4aee304968"
  }
}
```

### 5. Developer Resources

#### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
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## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InternalServerError	Internal error.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.NatSnatRuleExists	The NAT Gateway already has an identical SNAT rule.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnknownParameter	Unknown parameter error.
UnsupportedOperation.NatGatewayEipNotExists	The public IP of the NAT gateway does not exist.
UnsupportedOperation.NatGatewayRulePipExists	The private IP specified in the SNAT/DNAT forwarding rule has been bound with another rule.
UnsupportedOperation.NatGatewaySnatPipNeedVm	The private IP of the SNAT translation rule must be within the IP range of the VM ENI.



UnsupportedOperation.NatGatewayTypeNotSupportSNAT	The specified NAT Gateway type does not support configuring a SNAT rule.
UnsupportedOperation.UnbindEIP	EIP is not bound.

# RefreshDirectConnectGatewayRouteToNatGateway

最近更新时间：2023-08-23 14:11:25

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to refresh the route between a NAT gateway and Direct Connect and update the associated 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	<a href="#">Common Params</a> . The value used for this API: RefreshDirectConnectGatewayRouteToNatGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC ID
NatGatewayId	Yes	String	The NAT gateway ID.
DryRun	Yes	Boolean	Whether it is pre-refresh. Valid values: <code>True</code> (yes) and <code>False</code> (no)

### 3. Output Parameters

Parameter Name	Type	Description
DirectConnectSubnetSet	Array of <a href="#">DirectConnectSubnet</a>	IDC subnet information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Performing a dry run before refreshing the routes

This example shows you how to do a dry run of route refreshing. In this case, only the IDC IP range is returned.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: RefreshDirectConnectGatewayRouteToNatGateway
<Common request parameters>

{
  "VpcId": "vpc-3m6kvgrx",
  "NatGatewayId": "nat-2jd1e1rm",
  "DryRun": "True",
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "928d1513-d3fa-4c4e-b8fd-077cebbc3118",
    "DirectConnectSubnetSet": [
      {
        "DirectConnectGatewayId": "dcg-71awizmv",
        "CidrBlock": "99.99.99.77/32"
      }
    ]
  }
}
```

## Example2 Refreshing routes

This example shows you how to refresh routes.

### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: RefreshDirectConnectGatewayRouteToNatGateway
<Common request parameters>

{
  "VpcId": "vpc-3m6kvgrx",
  "NatGatewayId": "nat-2jd1e1rm",
  "DryRun": "False"
}
```

### Output Example

```
{
  "Response": {
    "RequestId": "b2b08cbc-c0dc-4346-bc55-a9b17a7a2a03",
    "DirectConnectSubnetSet": [
      {
        "DirectConnectGatewayId": "dcg-71awizmv",
        "CidrBlock": "99.99.99.77/32"
      }
    ]
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	An internal error occurred.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.

# DescribeNatGatewayDirectConnectGatewayRoute

最近更新时间：2023-08-23 14:11:27

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the routes between a NAT gateway and Direct Connect.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNatGatewayDirectConnectGatewayRoute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NatGatewayId	Yes	String	Unique ID of the NAT gateway
VpcId	Yes	String	Unique ID of VPC
Limit	No	Integer	Valid range: 0-200
Offset	No	Integer	Greater than 0

### 3. Output Parameters

Parameter Name	Type	Description
NatDirectConnectGatewayRouteSet	Array of <a href="#">NatDirectConnectGatewayRoute</a>	Route data
Total	Integer	Total number of routes
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the information of the routes of a NAT gateway

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeNatGatewayDirectConnectGatewayRoute
<Common request parameters>

{
  "NatGatewayId": "nat-2jd1e1rm",
  "VpcId": "vpc-3m6kvgrx",
  "Limit": 10,
  "Offset": 0
}
```

##### Output Example

```
{
  "Response": {
    "Total": 1,
    "NatDirectConnectGatewayRouteSet": [
      {
        "DestinationCidrBlock": "99.99.99.77/32",
        "UpdateTime": "2020-09-22 00:00:00",
        "GatewayType": "DIRECTCONNECT",

```

```
"GatewayId": "dcg-71awizmv",
"CreateTime": "2020-09-22 00:00:00"
},
"RequestId": "852bd0e9-2104-4e83-b0fc-87c2c2036140"
}
```

## 5. Developer Resources

### SDK

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### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.



UnauthorizedOperation

Unauthorized operation.

# VPN Gateway APIs

## GenerateVpnConnectionDefaultHealthCheckI

### p

最近更新时间：2023-08-23 14:11:08

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to get a pair of VPN tunnel health check addresses.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: GenerateVpnConnectionDefaultHealthCheckIp.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	VPN gateway ID, such as <code>vpngw-1w9tue3d</code>

## 3. Output Parameters

Parameter Name	Type	Description
HealthCheckLocalIp	String	Local IP used for VPN tunnel health check
HealthCheckRemoteIp	String	Remote IP used for VPN tunnel health check
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Obtaining a pair of VPN tunnel health check addresses

This example shows you how to get a pair of VPN tunnel health check addresses.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=GenerateVpnConnectionDefaultHealthCheckIp
&VpnGatewayId=vpn-ngenl4az
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "HealthCheckLocalIp": "169.254.128.2",
    "HealthCheckRemoteIp": "169.254.128.5",
    "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# ResetVpnGatewayInternetMaxBandwidth

最近更新时间：2023-08-23 14:11:07

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to adjust the bandwidth cap of a VPN gateway. The adjustment of the VPN gateway bandwidth is limited to [5,100] Mbps and [200,1000] Mbps.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ResetVpnGatewayInternetMaxBandwidth.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.
InternetMaxBandwidthOut	Yes	Integer	The new bandwidth cap in Mbps. Values: 5 , 10 , 20 , 50 , 100 , 200 , 500 and 1000 . The adjustment of the VPN gateway bandwidth is limited to [5,100] Mbps and [200,1000] Mbps.

### 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 Adjusting the bandwidth cap of a VPN gateway

This example shows you how to adjust the bandwidth cap of a VPN gateway.

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ResetVpnGatewayInternetMaxBandwidth
<Common request parameters>

{
  "VpnGatewayId": "vpngw-xxx",
  "InternetMaxBandwidthOut": 5
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

### 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.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	Invalid resource status.

# ResetVpnConnection

最近更新时间：2023-07-11 17:48:21

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

The API is used to reset a VPN tunnel.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ResetVpnConnection.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.
VpnConnectionId	Yes	String	The ID of the VPN tunnel instance, such as <code>vpn-x-f4916u0z</code> .

## 3. Output Parameters

Parameter Name	Type	Description



RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Resetting a VPN tunnel

This example shows you how to reset a VPN tunnel.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ResetVpnConnection
<Common request parameters>

{
  "VpnGatewayId": "vpngw-kjllnkew",
  "VpnConnectionId": "vpnxf29e6u0z"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
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## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.VpnConnInvalidState	Operation failed: The tunnel is not available now.

# RenewVpnGateway

最近更新时间：2023-07-11 17:48:21

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (RenewVpnGateway) is used to renew prepaid (monthly subscription) VPN gateways. Currently, only IPSEC gateways are supported.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: RenewVpnGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.
InstanceChargePrepaid	Yes	<a href="#">InstanceChargePrepaid</a>	Billing Methods

## 3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Renewing a VPN gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=RenewVpnGateway
&Version=2017-03-12
&VpnGatewayId=vpngw-lazly92z
&InstanceChargePrepaid.Period=2
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

## 5. Developer Resources

### SDK

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## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InsufficientFunds	Insufficient account balance.

# ModifyVpnGatewayAttribute

最近更新时间：2023-05-19 17:18:53

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyVpnGatewayAttribute) is used to modify the attributes of VPN gateways.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyVpnGatewayAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.
VpnGatewayName	No	String	The VPN gateway name. The maximum length is 60 bytes.
InstanceChargeType	No	String	VPN gateway billing mode. Currently, only the conversion of prepaid (monthly subscription) to postpaid (that is, pay-as-you-go) is supported. That is, the parameters only supports POSTPAID_BY_HOUR.

## 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 attributes of a VPN gateway

This example shows you how to modify the attributes of a VPN gateway.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyVpnGatewayAttribute
<Common request parameters>

{
  "VpnGatewayId": "vpngw-edvft32x",
  "VpnGatewayName": "test-vpn",
  "InstanceChargeType": "POSTPAID_BY_HOUR"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

## 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.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.



# ModifyVpnConnectionAttribute

最近更新时间：2023-08-23 14:11:07

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyVpnConnectionAttribute) is used to modify VPN tunnels.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyVpnConnectionAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnConnectionId	Yes	String	The ID of the VPN tunnel instance, such as <code>vpn-x-f4916u0z</code> .
VpnConnectionName	No	String	VPN tunnel can be named freely, but the maximum length is 60 characters.
PreShareKey	No	String	The pre-shared key.

SecurityPolicyDatabases.N	No	Array of <a href="#">SecurityPolicyDatabase</a>	SPD policy group. Taking {"10.0.0.5/24":["172.123.10.5/16"]} as an example, 10.0.0.5/24 is the VPC private IP range, and 172.123.10.5/16 is the IDC IP range. The user specifies the IP range in the VPC that can communicate with the IP range in the IDC.
IKEOptionsSpecification	No	<a href="#">IKEOptionsSpecification</a>	IKE (Internet Key Exchange) configuration. IKE comes with a self-protection mechanism. The network security protocol is configured by the user.
IPSECOptionsSpecification	No	<a href="#">IPSECOptionsSpecification</a>	IPSec configuration. The IPSec secure session configuration is provided by Tencent Cloud.
EnableHealthCheck	No	Boolean	Whether to enable the tunnel health check. The default value is <code>False</code> .
HealthCheckLocalIp	No	String	Local IP address for the tunnel health check
HealthCheckRemoteIp	No	String	Peer IP address for the tunnel health check
NegotiationType	No	String	Negotiation type. Valid values: <code>active</code> (default value), <code>passive</code> and <code>flowTrigger</code> .
DpdEnable	No	Integer	Specifies whether to enable DPD. Valid values: <code>0</code> (disable) and <code>1</code> (enable)
DpdTimeout	No	String	DPD timeout period. Default: 30; unit: second. If the request is not responded within this period, the peer end is considered not exists. This parameter is valid when the value of <code>DpdEnable</code> is 1.
DpdAction	No	String	The action after DPD timeout. Valid

			values: <code>clear</code> (disconnect) and <code>restart</code> (try again). It's valid when <code>DpdEnable</code> is <code>1</code> .
CustomerGatewayId	No	String	Peer gateway ID. You can update tunnels of V4.0 and later gateways.

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Modifying a VPN tunnel

This example shows you how to modify a VPN tunnel.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyVpnConnectionAttribute
<Common request parameters>

{
  "VpnConnectionName": "test-abc",
  "VpnConnectionId": "vpn-abc123x",
  "PreShareKey": "123",
  "EnableHealthCheck": "false"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "b6c8a8c4-ba39-49ca-9b21-66247b7e3ad3"
  }
}
```

```
}  
}
```

## 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.Malformed	Invalid input parameter format.
InvalidParameterValue.VpnConnCidrConflict	Destination IP address range conflicts with CIDR block of the current VPC tunnel.
InvalidParameterValue.VpnConnHealthCheckIpConflict	The destination IP of the probe cannot be within the IP range of the VPC.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.VpnConnInvalidState	Operation failed: The tunnel is not available now.



# ModifyCustomerGatewayAttribute

最近更新时间：2023-08-23 14:11:08

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyCustomerGatewayAttribute) is used to modify the customer gateway information.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyCustomerGatewayAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CustomerGatewayId	Yes	String	The ID of the customer gateway, such as <code>cgw-2wqq41m9</code> . You can query the customer gateway by using the <a href="#">DescribeCustomerGateways</a> API.
CustomerGatewayName	Yes	String	Customer gateway can be named freely, but the maximum length is 60 characters.

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying a customer gateway

This example shows you how to modify a customer gateway.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyCustomerGatewayAttribute
<Common request parameters>

{
  "CustomerGatewayId": "cgw-mgp33p11",
  "CustomerGatewayName": "NewName"
}
```

#### 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.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.



# InquiryPriceResetVpnGatewayInternetMaxBandwidth

最近更新时间：2023-07-11 17:48:22

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (InquiryPriceResetVpnGatewayInternetMaxBandwidth) is used to query the price for adjusting the bandwidth cap of a VPN gateway.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: InquiryPriceResetVpnGatewayInternetMaxBandwidth.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.
InternetMaxBandwidthOut	Yes	Integer	The public network bandwidth configuration. Available bandwidth specifications: 5, 10, 20, 50, and 100. Unit: Mbps.

### 3. Output Parameters

Parameter Name	Type	Description
Price	Price	Product price.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the price for adjusting the bandwidth cap of a VPN gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=InquiryPriceResetVpnGatewayInternetMaxBandwidth
&Version=2017-03-12
&VpnGatewayId=vpngw-lazly92z
&InternetMaxBandwidthOut=10
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "OriginalPrice": 460.27,
        "DiscountPrice": 460.27
      }
    },
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

### 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.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# InquiryPriceRenewVpnGateway

最近更新时间：2023-07-11 17:48:22

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (InquiryPriceRenewVpnGateway) is used to query the price for VPN gateway renewal. Currently, only querying prices for IPSEC-type gateways is supported.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: InquiryPriceRenewVpnGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.
InstanceChargePrepaid	Yes	<a href="#">InstanceChargePrepaid</a>	Specifies the purchased validity period, whether to enable auto-renewal. This parameter is required for monthly-subscription instances.

### 3. Output Parameters

Parameter Name	Type	Description
Price	Price	Product price.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the price for renewing a monthly-subscribed gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=InquiryPriceRenewVpnGateway
&Version=2017-03-12
&VpnGatewayId=vpngw-lazly92z
&InstanceChargePrepaid.Period=2
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "OriginalPrice": 760.0,
        "DiscountPrice": 760.0
      }
    },
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

### 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# InquiryPriceCreateVpnGateway

最近更新时间：2022-01-18 17:04:51

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (InquiryPriceCreateVpnGateway) is used to query the price for VPN gateway creation.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

This document describes the parameters for Signature V1. It's recommended to use the V3 signature, which provides higher security. Note that for Signature V3, the common parameters need to be placed in the HTTP Header. [See details](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: InquiryPriceCreateVpnGateway.
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12.
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InternetMaxBandwidthOut	Yes	Integer	The public network bandwidth configuration. Available bandwidth specifications: 5, 10, 20, 50, and 100. Unit: Mbps.

InstanceChargeType	No	String	The VPN gateway billing mode. PREPAID: prepaid means monthly subscription. POSTPAID_BY_HOUR: postpaid means pay-as-you-go. Default: POSTPAID_BY_HOUR. If prepaid mode is specified, the <code>InstanceChargePrepaid</code> parameter must be entered.
InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	Parameter settings for prepaid billing mode, also known as monthly subscription. This parameter can specify the purchase period and other attributes such as auto-renewal. This parameter is mandatory for prepaid instances.

### 3. Output Parameters

Parameter Name	Type	Description
Price	<a href="#">Price</a>	Product price.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying monthly subscription prices

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=InquiryPriceCreateVpnGateway
&Version=2017-03-12
&InstanceChargeType=PREPAID
&InstanceChargePrepaid.Period=1
&InternetMaxBandwidthOut=5
&<Common request parameters>
```

##### Output Example



```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "OriginalPrice": 380,
        "DiscountPrice": 380
      }
    },
    "RequestId": "1b2534de-3f38-4913-921a-af5ff1a9cb73"
  }
}
```

## Example2 Querying pay-as-you-go prices

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=InquiryPriceCreateVpnGateway
&Version=2017-03-12
&InstanceChargeType=POSTPAID_BY_HOUR
&InternetMaxBandwidthOut=5
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "UnitPrice": 0.48,
        "ChargeUnit": "HOUR"
      },
      "BandwidthPrice": {
        "UnitPrice": 0.8,
        "ChargeUnit": "GB"
      }
    },
    "RequestId": "e87327cd-f8fa-4340-9959-58ebe8f11f6b"
  }
}
```

## 5. Developer Resources

## SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for 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	Incorrect parameter value.

# DownloadCustomerGatewayConfiguration

最近更新时间：2023-08-23 14:11:08

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to download VPN tunnel configurations.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DownloadCustomerGatewayConfiguratio
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.
VpnConnectionId	Yes	String	The ID of the VPN tunnel instance, such as <code>vpn-x-f4916u0z</code> .
CustomerGatewayVendor	Yes	<a href="#">CustomerGatewayVendor</a>	Customer gateway vendor information object, which can be obtained through DescribeCustomerGatewayVendors.

InterfaceName	Yes	String	Name of the physical API for tunnel access device.
---------------	-----	--------	--

### 3. Output Parameters

Parameter Name	Type	Description
CustomerGatewayConfiguration	String	Configuration information in XML format.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Downloading VPN tunnel configuration

This example shows you how to download VPN tunnel configuration.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DownloadCustomerGatewayConfiguration
<Common request parameters>

{
  "VpnGatewayId": "vpngw-p3lmbqwn",
  "VpnConnectionId": "vpnx-3a4xoch6",
  "CustomerGatewayVendor": {
    "Platform": "comware",
    "SoftwareVersion": "V1.0",
    "VendorName": "h3c"
  },
  "InterfaceName": "eth0"
}
```

#### Output Example

```
{
  "Response": {
    "CustomerGatewayConfiguration": "# VPC utilizes unique identifiers to manipulate
```

```
the configuration of
# a VPN Connection. Each VPN Connection is assigned an identifier and is
# associated with Virtual Private Gateway ...",
"RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
}
}
```

## 5. Developer Resources

### SDK

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### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DescribeVpnGateways

最近更新时间：2023-08-23 14:11:08

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeVpnGateways) is used to query the VPN gateway list.

A maximum of 300 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpnGateways.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayIds.N	No	Array of String	The VPN gateway instance ID, such as <code>vpngw-f4916u0z</code> . Each request can have a maximum of 100 instances. <code>VpnGatewayIds</code> and <code>Filters</code> cannot be specified at the same time.
Filters.N	No	Array of <a href="#">FilterObject</a>	Filter condition. <code>VpnGatewayIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"> <li><code>vpc-id</code> - String - (Filter condition) VPC instance ID, such as <code>vpc-f4916u0z</code>.</li> </ul>

			<ul style="list-style-type: none"> <li>vpn-gateway-id - String - (Filter condition) VPN instance ID, such as <code>vpngw-5a1uhh9t</code>.</li> <li>vpn-gateway-name - String - (Filter condition) VPN instance name.</li> <li>type - String - (Filter condition) VPN gateway type: 'IPSEC', 'SSL'.</li> <li>public-ip-address - String - (Filter condition) Public IP.</li> <li>renew-flag - String - (Filter condition) Gateway renewal type. Manual renewal: <code>NOTIFY_AND_MANUAL_RENEW</code>, Automatic renewal: <code>NOTIFY_AND_AUTO_RENEW</code>.</li> <li>zone - String - (Filter condition) The availability zone where the VPN is located, such as <code>ap-guangzhou-2</code>.</li> </ul>
Offset	No	Integer	Offset
Limit	No	Integer	The number of request objects.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of instances meeting the filter condition.
VpnGatewaySet	Array of <a href="#">VpnGateway</a>	The list of details of VPN gateway instances.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying VPN gateways

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeVpnGateways
&Version=2017-03-12
&Offset=0
&Limit=2
&Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-2
```

```
&Filters.0.Values.0=ap-guangzhou-3
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "VpnGatewaySet": [
      {
        "VpcId": "vpc-ah9e9qu9",
        "VpnGatewayId": "vpngw-5aluhh9t",
        "VpnGatewayName": "joantest",
        "Type": "IPSEC",
        "State": "DELETING",
        "PublicIpAddress": "",
        "RenewFlag": "NOTIFY_AND_MANUAL_RENEW",
        "InstanceChargeType": "PREPAID",
        "InternetMaxBandwidthOut": 0,
        "CreatedTime": "2015-08-20 19:39:01",
        "ExpiredTime": "0000-00-00 00:00:00",
        "IsAddressBlocked": false,
        "NewPurchasePlan": "",
        "RestrictState": "NORMAL",
        "Zone": "ap-guangzhou-2",
        "VpnGatewayQuotaSet": [
          {
            "Bandwidth": 5,
            "Cname": "Mini type",
            "Name": "mini"
          },
          {
            "Bandwidth": 20,
            "Cname": "Middle type",
            "Name": "middle"
          },
          {
            "Bandwidth": 100,
            "Cname": "Superlarge type",
            "Name": "superLarge"
          },
          {
            "Bandwidth": 10,
            "Cname": "Small type",
            "Name": "small"
          },
        ]
      }
    ]
  }
}
```



```
{
  "Bandwidth": 50,
  "Cname": "Large type",
  "Name": "large"
},
{
  "VpnGatewayId": "vpngw-97yhyme3",
  "VpnGatewayName": "leohli-simulate3",
  "Type": "IPSEC",
  "State": "AVAILABLE",
  "PublicIpAddress": "",
  "RenewFlag": "NOTIFY_AND_MANUAL_RENEW",
  "InstanceChargeType": "PREPAID",
  "InternetMaxBandwidthOut": 10,
  "CreatedTime": "2017-07-03 14:39:16",
  "ExpiredTime": "2018-05-31 13:03:47",
  "IsAddressBlocked": false,
  "NewPurchasePlan": "PREPAID_TO_POSTPAID",
  "RestrictState": "PROTECTIVELY_ISOLATED",
  "Zone": "ap-guangzhou-3",
  "VpnGatewayQuotaSet": [
    {
      "Bandwidth": 5,
      "Cname": "Mini type",
      "Name": "mini"
    },
    {
      "Bandwidth": 20,
      "Cname": "Middle type",
      "Name": "middle"
    },
    {
      "Bandwidth": 100,
      "Cname": "Superlarge type",
      "Name": "superLarge"
    },
    {
      "Bandwidth": 10,
      "Cname": "Small type",
      "Name": "small"
    },
    {
      "Bandwidth": 50,
      "Cname": "Large type",
```

```

"Name": "large"
}
]
}
],
"RequestId": "feb949ef-8eb8-4eda-ba73-4fc5705bf8f5"
}
}

```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.

InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidVpnGatewayId.Malformed	Invalid VPN gateway. The VPN instance ID is invalid.
InvalidVpnGatewayId.NotFound	Invalid VPN gateway. The VPN instance does not exist. Verify if you have entered the correct resource information.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DescribeVpnConnections

最近更新时间：2023-05-19 17:18:54

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to used to query the list of VPN tunnels.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpnConnections.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnConnectionIds.N	No	Array of String	The instance ID of the VPN tunnel, such as <code>vpnxf4916u0z</code> . Each request can have a maximum of 100 instances. <code>VpnConnectionIds</code> and <code>Filters</code> cannot be specified at the same time.
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. In each request, the upper limit for <code>Filters</code> is 10 and 5 for <code>Filter.Values</code> . <code>VpnConnectionIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"> <li><code>vpc-id</code> - String - VPC instance ID, such as <code>vpc-0a36uwkr</code>.</li> </ul>

			<ul style="list-style-type: none"> <li>• vpn-gateway-id - String - VPN gateway instance ID, such as <code>vpngw-p41mqawn</code> .</li> <li>• customer-gateway-id - String - Customer gateway instance ID, such as <code>cgw-14rblw63</code> .</li> <li>• vpn-connection-name - String - Connection name, such as <code>test-vpn</code> .</li> <li>• vpn-connection-id - String - Connection instance ID, such as <code>vpn-x-5p7vkch8"</code> .</li> </ul>
Offset	No	Integer	The Offset. The default value is 0. For more information about Offset, see the relevant section in the API Introduction.
Limit	No	Integer	Number of values to be returned. The default value is 20. Maximum is 100.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of instances meeting the filter condition.
VpnConnectionSet	Array of <a href="#">VpnConnection</a>	VPN tunnel instance.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying VPN tunnels

This example shows you how to query VPN tunnels.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeVpnConnections
<Common request parameters>

{
```

```
"Limit": "5",
"Offset": "0"
}
```

## Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "VpnConnectionSet": [
      {
        "VpcId": "vpc-8ro3x6md",
        "VpnConnectionId": "vpnxd9oztok",
        "VpnConnectionName": "testcon-1",
        "VpnGatewayId": "vpngw-6x0wxvtp",
        "CustomerGatewayId": "cgw-apytvc1n",
        "PreShareKey": "123",
        "VpnProto": "IPSEC",
        "EncryptProto": "IKE",
        "RouteType": "StaticRoute",
        "IKEOptionsSpecification": {
          "PropoAuthenAlgorithm": "MD5",
          "PropoEncryAlgorithm": "AES-CBC-128",
          "ExchangeMode": "MAIN",
          "LocalIdentity": "ADDRESS",
          "RemoteIdentity": "ADDRESS",
          "LocalAddress": "6.6.6.6",
          "RemoteAddress": "1.1.3.2",
          "LocalFqdnName": "",
          "RemoteFqdnName": "",
          "DhGroupName": "GROUP1",
          "IKESaLifetimeSeconds": 86400,
          "IKEVersion": "IKEV1"
        },
        "IPSECOptionsSpecification": {
          "EncryptAlgorithm": "AES-CBC-128",
          "IntegrityAlgorithm": "MD5",
          "PfsDhGroup": "NULL",
          "IPSECSaLifetimeSeconds": 3600,
          "IPSECSaLifetimeTraffic": 1843200
        },
        "CreatedTime": "2022-07-22 14:05:07",
        "SecurityPolicyDatabaseSet": [
          {
            "LocalCidrBlock": "0.0.0.0/0",
            "RemoteCidrBlock": [
```

```
"0.0.0.0/0"  
]  
}  
],  
"State": "AVAILABLE",  
"NetStatus": "AVAILABLE",  
"NegotiationType": "flowTrigger",  
"DpdEnable": 1,  
"DpdTimeout": "30",  
"DpdAction": "clear",  
"EnableHealthCheck": false,  
"HealthCheckLocalIp": "",  
"HealthCheckRemoteIp": "",  
"HealthCheckStatus": "",  
"TagSet": []  
},  
{  
"VpcId": "vpc-8ro3x6md",  
"VpnConnectionId": "vpn-eal8tpn2",  
"VpnConnectionName": "testcon-2",  
"VpnGatewayId": "vpngw-6x0wxvtp",  
"CustomerGatewayId": "cgw-876ql2tz",  
"PreShareKey": "123",  
"VpnProto": "IPSEC",  
"EncryptProto": "IKE",  
"RouteType": "StaticRoute",  
"IKEOptionsSpecification": {  
"PropoAuthenAlgorithm": "MD5",  
"PropoEncryAlgorithm": "AES-CBC-128",  
"ExchangeMode": "MAIN",  
"LocalIdentity": "ADDRESS",  
"RemoteIdentity": "ADDRESS",  
"LocalAddress": "6.6.6.6",  
"RemoteAddress": "169.168.10.4",  
"LocalFqdnName": "",  
"RemoteFqdnName": "",  
"DhGroupName": "GROUP1",  
"IKESaLifetimeSeconds": 86400,  
"IKEVersion": "IKEV1"  
},  
"IPSECOptionsSpecification": {  
"EncryptAlgorithm": "AES-CBC-128",  
"IntegrityAlgorithm": "MD5",  
"PfsDhGroup": "NULL",  
"IPSECSaLifetimeSeconds": 3600,  
"IPSECSaLifetimeTraffic": 1843200  
},  
},
```

```
"CreatedTime": "2022-07-22 14:14:48",
"SecurityPolicyDatabaseSet": [
{
"LocalCidrBlock": "0.0.0.0/0",
"RemoteCidrBlock": [
"0.0.0.0/0"
]
}
],
"State": "AVAILABLE",
"NetStatus": "AVAILABLE",
"NegotiationType": "passive",
"DpdEnable": 1,
"DpdTimeout": "31",
"DpdAction": "clear",
"EnableHealthCheck": false,
"HealthCheckLocalIp": "",
"HealthCheckRemoteIp": "",
"HealthCheckStatus": "",
"TagSet": []
}
],
"RequestId": "1f4fa69d-0a9b-4342-83e1-002533feca94"
}
```

## 5. Developer Resources

### SDK

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### Command Line Interface



- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DescribeCustomerGateways

最近更新时间：2023-08-23 14:11:09

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeCustomerGateways) is used to query the customer gateway list.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeCustomerGateways.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CustomerGatewayIds.N	No	Array of String	Customer gateway ID, such as <code>cgw-2wqq41m9</code> . Each request can have a maximum of 100 instances. <code>CustomerGatewayIds</code> and <code>Filters</code> cannot be specified at the same time.
Filters.N	No	Array of <a href="#">Filter</a>	The filter condition. For details, see the Instance Filter Conditions Table. The upper limit for <code>Filters</code> in each request is 10 and 5 for <code>Filter.Values</code> . <code>CustomerGatewayIds</code> and <code>Filters</code> cannot be specified at the same time.

			<ul style="list-style-type: none"> <li>customer-gateway-id - String - (Filter condition) The unique ID of the user gateway, such as <code>cgw-mgp33p11</code>.</li> <li>customer-gateway-name - String - (Filter condition) The name of the user gateway, such as <code>test-cgw</code>.</li> <li>ip-address - String - (Filter condition) The public IP address, such as <code>58.211.1.12</code>.</li> </ul>
Offset	No	Integer	Offset. Default value: 0. For more information on Offset, see the relevant section in the API <a href="#">Introduction</a> .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.

### 3. Output Parameters

Parameter Name	Type	Description
CustomerGatewaySet	Array of <a href="#">CustomerGateway</a>	Customer gateway object list
TotalCount	Integer	Number of eligible instances
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying customer gateways

This example shows you how to query customer gateways.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCustomerGateways
<Common request parameters>

{
  "CustomerGatewayIds": [
```

```
"cgw-mgp33p11"
],
"Filters": [
{
"Name": "customer-gateway-name",
"Values": [
"test-cgw"
]
}
],
"Offset": 1,
"Limit": 1
}
```

### Output Example

```
{
"Response": {
"CustomerGatewaySet": [
{
"CustomerGatewayId": "cgw-mgp33p11",
"IpAddress": "58.211.1.12",
"CustomerGatewayName": "test-cgw",
"CreatedTime": "2018-03-25 17:52:39"
}
],
"TotalCount": 1,
"RequestId": "e5500b60-4964-43c7-8a6c-4bff98f59aeb"
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DescribeCustomerGatewayVendors

最近更新时间：2023-08-23 14:11:09

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeCustomerGatewayVendors) is used to query the information of supported customer gateway vendors.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeCustomerGatewayVendors.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.

## 3. Output Parameters

Parameter Name	Type	Description
CustomerGatewayVendorSet	Array of <a href="#">CustomerGatewayVendor</a>	Customer gateway vendor information object.

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Querying the information of supported customer gateway vendors

This example shows you how to query the information of supported customer gateway vendors.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCustomerGatewayVendors
<Common request parameters>

{}
```

#### Output Example

```
{
  "Response": {
    "CustomerGatewayVendorSet": [
      {
        "Platform": "ios",
        "SoftwareVersion": "V15.4",
        "VendorName": "cisco"
      },
      {
        "Platform": "comware",
        "SoftwareVersion": "V1.0",
        "VendorName": "h3c"
      }
    ],
    "RequestId": "ccda8bff-d7aa-4a16-8a72-13e72a116205"
  }
}
```

## 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

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).



# DeleteVpnGateway

最近更新时间：2023-05-17 17:37:38

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteVpnGateway) is used to delete a VPN gateway. Currently, only deletion of pay-as-you-go IPSEC gateway instances in running status is supported.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteVpnGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a VPN gateway

This example shows you how to delete a VPN gateway.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteVpnGateway
&Version=2017-03-12
&VpnGatewayId=vpngw-12345678
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "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.

- [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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidVpnGatewayId.Malformed	Invalid VPN gateway. The VPN instance ID is invalid.
InvalidVpnGatewayId.NotFound	Invalid VPN gateway. The VPN instance does not exist. Verify if you have entered the correct resource information.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DeleteVpnConnection

最近更新时间：2023-05-19 17:18:54

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete a VPN tunnel.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteVpnConnection.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.
VpnConnectionId	Yes	String	The ID of the VPN tunnel instance, such as <code>vpn-x-f4916u0z</code> .

## 3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Deleting a VPN tunnel

This example shows you how to delete a VPN tunnel.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteVpnConnection
<Common request parameters>

{
  "VpnGatewayId": "vpngw-71c15331",
  "VpnConnectionId": "vpn-x-p0j11j28"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.DeleteVpnConnInvalidState	
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# DeleteCustomerGateway

最近更新时间：2023-08-23 14:11:09

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteCustomerGateway) is used to delete customer gateways.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteCustomerGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CustomerGatewayId	Yes	String	The ID of the customer gateway, such as <code>cgw-2wqq41m9</code> . You can query the customer gateway by using the <a href="#">DescribeCustomerGateways</a> API.

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Deleting a customer gateway

This example shows you how to delete a customer gateway.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteCustomerGateway
<Common request parameters>

{
  "CustomerGatewayId": "cgw-mgp33p11"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.RecordNotExists	The record does not exist.

# CreateVpnGateway

最近更新时间：2023-08-23 14:11:10

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (CreateVpnGateway) is used to create a VPN gateway.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateVpnGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID, which can be obtained from the <code>VpcId</code> field in the response of the <a href="#">DescribeVpcs</a> API.
VpnGatewayName	Yes	String	The VPN gateway name. The maximum length is 60 bytes.
InternetMaxBandwidthOut	Yes	Integer	The public network bandwidth configuration. Available bandwidth

			specifications: 5, 10, 20, 50, and 100. Unit: Mbps
InstanceChargeType	No	String	The VPN gateway billing mode. PREPAID: prepaid means monthly subscription. POSTPAID_BY_HOUR: postpaid means pay-as-you-go. Default: POSTPAID_BY_HOUR. If prepaid mode is specified, the <code>InstanceChargePrepaid</code> parameter must be entered.
InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	Parameter settings for prepaid billing mode, also known as monthly subscription. This parameter can specify the purchase period and other attributes such as auto-renewal. This parameter is mandatory for prepaid instances.
Zone	No	String	The availability zone, such as <code>ap-guangzhou-2</code> .
Type	No	String	VPN gateway type. Values: <code>CCN</code> (CCN VPN gateway), <code>SSL</code> (SSL VPN gateway)
Tags.N	No	Array of <a href="#">Tag</a>	Bound tags, such as [{"Key": "city", "Value": "shanghai"}].
Cdclid	No	String	CDC instance ID
MaxConnection	No	Integer	Maximum number of connected clients allowed for the SSL VPN gateway. Valid values: [5, 10, 20, 50, 100]. This parameter is only required for SSL VPN gateways.

### 3. Output Parameters

Parameter Name	Type	Description
VpnGateway	<a href="#">VpnGateway</a>	VPN gateway object.

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Creating a VPN gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateVpnGateway
&VpcId="vpc-xxxx"
&VpnGatewayName="test"
&InstanceChargeType="POSTPAID_BY_HOUR"
&InternetMaxBandwidthOut=5
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "VpnGateway": {
      "VpnGatewayQuotaSet": [
        {
          "Bandwidth": 1,
          "Cname": "xx",
          "Name": "xx"
        }
      ],
      "MaxConnection": 1,
      "VpcId": "xx",
      "RenewFlag": "xx",
      "Zone": "xx",
      "VpnGatewayName": "xx",
      "InstanceChargeType": "xx",
      "CdcId": "xx",
      "IsAddressBlocked": true,
      "InternetMaxBandwidthOut": 1,
      "State": "xx",
      "Version": "xx",
      "VpnGatewayId": "xx",
      "PublicIpAddress": "xx",
      "CreatedTime": "2020-09-22 00:00:00",
      "NewPurchasePlan": "xx",
      "ExpiredTime": "2020-09-22 00:00:00",
    }
  }
}
```

```

"Type": "xx",
"NetworkInstanceId": "xx",
"RestrictState": "xx"
},
"RequestId": "xx"
}
}

```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Malformed	Invalid input parameter format.

InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
InvalidParameterValue.VpnConnCidrConflict	Destination IP address range conflicts with CIDR block of the current VPC tunnel.
InvalidVpcId.Malformed	Invalid VPC. The VPC instance ID is invalid.
InvalidVpcId.NotFound	Invalid VPC. The VPC resource does not exist.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
ResourceNotFound	The resource does not exist.

UnauthorizedOperation.NoRealNameAuthentication	Identity verification has not been completed for the account.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InsufficientFunds	Insufficient account balance.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.
UnsupportedOperation.VpnGwVpIdMustHave	

# CreateVpnConnection

最近更新时间：2023-08-23 14:11:10

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create a VPN tunnel.

### **Note :**

This API is async. You can call the [DescribeVpcTaskResult](#) API to query the task result. When the task is completed, you can continue other tasks.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateVpnConnection.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	The ID of the VPN gateway instance.



CustomerGatewayId	Yes	String	The ID of the customer gateway, such as <code>cgw-2wqq41m9</code> . You can query the customer gateway by using the <a href="#">DescribeCustomerGateways</a> API.
VpnConnectionName	Yes	String	Gateway can be named freely, but the maximum length is 60 characters.
PreShareKey	Yes	String	The pre-shared key.
VpcId	No	String	VPC instance ID, which can be obtained from the <code>VpcId</code> field in the response of the <a href="#">DescribeVpcs</a> API. This parameter is optional for a CCN-based VPN tunnel.
SecurityPolicyDatabases.N	No	Array of <a href="#">SecurityPolicyDatabase</a>	The SPD policy group, for example: <code>{"10.0.0.5/24": ["172.123.10.5/16"]}</code> . 10.0.0.5/24 is the VPC internal IP range, and 172.123.10.5/16 is the IDC IP range. The user specifies the IP range in the VPC that can communicate with the IP range in the IDC.
IKEOptionsSpecification	No	<a href="#">IKEOptionsSpecification</a>	Internet Key Exchange (IKE) configuration. IKE has a self-protection mechanism. The network security protocol is configured by the user.
IPSECOptionsSpecification	No	<a href="#">IPSECOptionsSpecification</a>	IPSec configuration. The IPSec secure session configuration is provided by Tencent Cloud.
Tags.N	No	Array of <a href="#">Tag</a>	Bound tags, such as <code>[{"Key": "city", "Value": "shanghai"}]</code> .
EnableHealthCheck	No	Boolean	Whether the tunnel health check is supported. The default value is <code>False</code> .
HealthCheckLocalIp	No	String	Local IP of health check. It defaults

			to a random IP within 169.254.128.0/17.
HealthCheckRemotelp	No	String	Peer IP of health check. It defaults to a random IP within 169.254.128.0/17.
RouteType	No	String	Tunnel type. Valid values: <code>STATIC</code> , <code>StaticRoute</code> , and <code>Policy</code> .
NegotiationType	No	String	Negotiation type. Valid values: <code>active</code> (default value), <code>passive</code> and <code>flowTrigger</code> .
DpdEnable	No	Integer	Specifies whether to enable DPD. Valid values: <code>0</code> (disable) and <code>1</code> (enable)
DpdTimeout	No	String	DPD timeout period. Default: 30; unit: second. If the request is not responded within this period, the peer end is considered not exists. This parameter is valid when the value of <code>DpdEnable</code> is 1.
DpdAction	No	String	The action after DPD timeout. Valid values: <code>clear</code> (disconnect) and <code>restart</code> (try again). It's valid when <code>DpdEnable</code> is 1 .

### 3. Output Parameters

Parameter Name	Type	Description
VpnConnection	<a href="#">VpnConnection</a>	Tunnel instance object.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating a VPN tunnel

This example shows you how to create a VPN tunnel.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateVpnConnection
<Common request parameters>

{
  "VpnConnectionName": "TEST_CONN",
  "PreShareKey": "654321",
  "VpcId": "vpc-gapcv96p",
  "Tags": [
    {
      "Value": "shanghai",
      "Key": "city"
    }
  ],
  "IPSECOptionsSpecification": {
    "PfsDhGroup": "NULL",
    "EncryptAlgorithm": "3DES-CBC",
    "IntegrityAlgorith": "MD5"
  },
  "SecurityPolicyDatabases": [
    {
      "LocalCidrBlock": "10.8.4.0/24",
      "RemoteCidrBlock": [
        "58.211.1.0/24"
      ]
    }
  ],
  "VpnGatewayId": "vpngw-1w9tue3d",
  "CustomerGatewayId": "cgw-qa9sxdy7",
  "IKEOptionsSpecification": {
    "IKEVersion": "IKEV1",
    "RemoteIdentity": "ADDRESS",
    "PropoAuthenAlgorithm": "MD5",
    "RemoteAddress": "1.2.3.4",
    "LocalIdentity": "ADDRESS",
    "LocalAddress": "58.211.2.5",
```

```

"ExchangeMode": "MAIN",
"PropoEncryAlgorithm": "3DES-CBC",
"DhGroupName": "GROUP1"
}
}
    
```

## Output Example

```

{
  "Response": {
    "VpnConnection": {
      "VpcId": "vpc-kozprpc9",
      "VpnConnectionId": "vpn-p0j11j28",
      "VpnConnectionName": "test-con",
      "VpnGatewayId": "vpngw-ecvft20x",
      "CustomerGatewayId": "cgw-7lh15331",
      "State": "PENDING",
      "PreShareKey": "123456",
      "NegotiationType": "",
      "DpdEnable": -1,
      "DpdTimeout": "",
      "DpdAction": "",
      "VpnProto": "IPSEC",
      "EncryptProto": "IKE",
      "RouteType": "STATIC",
      "CreatedTime": "0000-00-00 00:00:00",
      "NetStatus": "",
      "SecurityPolicyDatabaseSet": [],
      "IKEOptionsSpecification": {
        "PropoEncryAlgorithm": "AES-CBC-256",
        "PropoAuthenAlgorithm": "SHA",
        "ExchangeMode": "AGGRESSIVE",
        "LocalIdentity": "ADDRESS",
        "RemoteIdentity": "ADDRESS",
        "LocalAddress": "122.152.199.99",
        "RemoteAddress": "39.97.38.104",
        "LocalFqdnName": "",
        "RemoteFqdnName": "",
        "DhGroupName": "GROUP2",
        "IKESaLifetimeSeconds": 86400,
        "IKEVersion": "IKEV1"
      },
      "IPSECOptionsSpecification": {
        "EncryptAlgorithm": "AES-CBC-256",
        "IntegrityAlgorithm": "SHA1",
        "IPSECSaLifetimeSeconds": 3600,
    
```

```

"IPSECSaLifetimeTraffic": 1843200,
"PfsDhGroup": "NULL"
},
"EnableHealthCheck": false,
"HealthCheckLocalIp": "",
"HealthCheckRemoteIp": "",
"HealthCheckStatus": "",
"TagSet": []
},
"RequestId": "4b71dd4d-a3ee-4ac1-b99a-99d65f6443fd"
}
}

```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.Coexist	The parameters cannot be specified at the same time.

InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
InvalidParameterValue.VpcCidrConflict	Destination IP address range conflicts with CIDR of the current VPC.
InvalidParameterValue.VpnConnCidrConflict	Destination IP address range conflicts with CIDR block of the current VPC tunnel.
InvalidParameterValue.VpnConnHealthCheckIpConflict	The destination IP of the probe cannot be within the IP range of the VPC.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.

LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# CreateCustomerGateway

最近更新时间：2023-05-19 17:18:55

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (CreateCustomerGateway) is used to create customer gateways.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateCustomerGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CustomerGatewayName	Yes	String	Customer gateway can be named freely, but the maximum length is 60 characters.
IpAddress	Yes	String	Customer gateway public IP.
Tags.N	No	Array of <a href="#">Tag</a>	Bound tags, such as [{"Key": "city", "Value": "shanghai"}].



### 3. Output Parameters

Parameter Name	Type	Description
CustomerGateway	<a href="#">CustomerGateway</a>	Customer gateway object
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a customer gateway

This example shows you how to create a customer gateway.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateCustomerGateway
<Common request parameters>

{
  "IpAddress": "58.211.1.12",
  "CustomerGatewayName": "test-cgw",
  "Tags": [
    {
      "Value": "shanghai",
      "Key": "city"
    }
  ]
}
```

#### Output Example

```
{
  "Response": {
    "CustomerGateway": {
      "CustomerGatewayId": "cgw-mgp33p11",
      "IpAddress": "58.211.1.12",
      "CustomerGatewayName": "test-cgw",
      "CreatedTime": "2018-04-18 10:00:00"
    }
  }
}
```

```
} ,  
"RequestId": "5bd98433-263a-47b6-9a1c-84aa613a8ff6"  
}  
}
```

## 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
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.

InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
UnsupportedOperation.RecordExists	This record already exists.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.
VpcLimitExceeded	The maximum number of VPC resource requests for the specified region has been reached.

# ModifyVpnGatewayCcnRoutes

最近更新时间：2023-08-23 14:11:07

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify VPN gateway-based CCN routes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyVpnGatewayCcnRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	Instance ID of the VPN gateway
Routes.N	Yes	Array of <a href="#">VpngwCcnRoutes</a>	The CCN route (IDC IP range) list.

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying VPN gateway-based CCN routes

This example shows you how to modify VPN gateway-based CCN routes

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyVpnGatewayCcnRoutes
<Common request parameters>

{
  "VpnGatewayId": "vpngw-qol17bjo",
  "Routes": [
    {
      "RouteId": "dcr-7t3tknmp",
      "Status": "ENABLE",
      "DestinationCidrBlock": "172.2.9.3/32"
    }
  ]
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
  }
}
```

## 5. Developer Resources

## SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
ResourceNotFound	The resource does not exist.

# DescribeVpnGatewayCcnRoutes

最近更新时间：2023-08-23 14:11:09

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query VPN gateway-based CCN routes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpnGatewayCcnRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	Instance ID of the VPN gateway
Offset	No	Integer	Offset.
Limit	No	Integer	The returned quantity

## 3. Output Parameters

--	--	--

Parameter Name	Type	Description
RouteSet	Array of <a href="#">VpngwCcnRoutes</a>	The CCN route (IDC IP range) list.
TotalCount	Integer	Number of objects that meet the condition.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying VPN gateway-based CCN routes

This example shows you how to query VPN gateway-based CCN routes.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeVpnGatewayCcnRoutes
<Common request parameters>

{
  "VpnGatewayId": "vpngw-qol17bjx",
  "Offset": 1,
  "Limit": 1
}
```

#### Output Example

```
{
  "Response": {
    "RouteSet": [
      {
        "RouteId": "vpnr-00wv1z75",
        "DestinationCidrBlock": "10.33.0.0/24",
        "Status": "ENABLE"
      },
      {
        "RouteId": "vpnr-11xe2z54",
        "DestinationCidrBlock": "192.168.0.0/24",

```



```
"Status": "ENABLE"  
}  
],  
"TotalCount": 2,  
"RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"  
}  
}
```

## 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
InternalServerError	Internal error.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

# ModifyVpnGatewayRoutes

最近更新时间：2023-08-23 14:11:07

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify VPN gateway routes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyVpnGatewayRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	Instance ID of the VPN gateway
Routes.N	Yes	Array of <a href="#">VpnGatewayRouteModify</a>	Route parameters to modify

## 3. Output Parameters

Parameter Name	Type	Description
Routes	Array of <a href="#">VpnGatewayRoute</a>	Route information of the VPN gateway Note: this field may return <code>null</code> , indicating that no valid value is obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Disabling a route of a VPN gateway

This example shows you how to disable a route of a VPN gateway.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyVpnGatewayRoutes
&VpnGatewayId=vpn-ngenl4az
&Routes.0.RouteId=vpnr-7t3tknmg
&Routes.0.Status=DISABLE
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "Routes": [
      {
        "DestinationCidrBlock": "192.241.0.0/24",
        "Status": "ENABLE",
        "InstanceId": "vpn-ng2asdeu",
        "InstanceType": "VPNCONN",
        "Priority": 100
      }
    ],
    "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
  }
}
```

## 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
InternalServerError	An internal error occurred.
InvalidParameter	A parameter error occurred.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.RecordNotExists	The record does not exist.

# DescribeVpnGatewayRoutes

最近更新时间：2023-08-23 14:11:08

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query VPN gateway routes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpnGatewayRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	Instance ID of the VPN gateway
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. Valid values: <code>DestinationCidr</code> , <code>InstanceId</code> , and <code>InstanceType</code> .
Offset	No	Integer	Offset. Default value: 0
Limit	No	Integer	Number of returned results per page. Default value: 20; maximum value: 100

### 3. Output Parameters

Parameter Name	Type	Description
Routes	Array of <a href="#">VpnGatewayRoute</a>	Destination routes of the VPN gateway
TotalCount	Integer	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 destination routes of a VPN gateway

This example shows you how to query destination routes of a VPN gateway.

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeVpnGatewayRoutes
<Common request parameters>

{
  "VpnGatewayId": "vpngw-7lh15331",
  "Offset": "0"
}
```

##### Output Example

```
{
  "Response": {
    "Routes": [
      {
        "RouteId": "vpnr-h53fo5tv",
        "DestinationCidrBlock": "10.0.0.0/16",
        "Status": "ENABLE",

```

```
"InstanceId": "vpnx-f99clft2",
"InstanceType": "VPNCONN",
"Priority": 0,
"Type": "Static",
"CreateTime": "2022-12-05 11:02:44",
"UpdateTime": "2022-12-05 11:02:44"
}
],
"TotalCount": 1,
"RequestId": "cf5ec1b0-ec85-4e28-bc05-763c617b57a0"
}
}
```

## 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
InternalServerError	An internal error occurred.

InvalidParameter	A parameter error occurred.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.



# DeleteVpnGatewayRoutes

最近更新时间：2023-08-23 14:11:09

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete routes of a VPN gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteVpnGatewayRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	Instance ID of the VPN gateway
RouteIds.N	Yes	Array of String	List of route IDs

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting routes of a specified VPN gateway

This example shows you how to delete routes of a VPN gateway.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteVpnGatewayRoutes
&VpnGatewayId=vpngw-12345678
&RouteIds.0=vpnr-00wv1z75
&RouteIds.1=vpnr-19oqx1ab
&<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.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	A parameter error occurred.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# CreateVpnGatewayRoutes

最近更新时间：2023-08-23 14:11:10

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create destination routes of a route-based VPN gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateVpnGatewayRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayId	Yes	String	VPN gateway ID
Routes.N	Yes	Array of <a href="#">VpnGatewayRoute</a>	Destination route list of a VPN gateway

## 3. Output Parameters

Parameter Name	Type	Description
Routes	Array of <a href="#">VpnGatewayRoute</a>	Destination routes of a VPN gateway
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating destination routes of a VPN gateway

This example shows you how to create destination routes of a route-based VPN gateway.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateVpnGatewayRoutes
&VpnGatewayId=vpn-ngenl4az
&Routes.0.DestinationCidrBlock=192.241.0.0/24
&Routes.0.Status=ENABLE
&Routes.0.InstanceType=VPNCONN
&Routes.0.InstanceId=vpn-ng2asdew
&Routes.0.Priority=100
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "Routes": [
      {
        "DestinationCidrBlock": "192.241.0.0/24",
        "Status": "ENABLE",
        "InstanceId": "vpn-ng2asdew",
        "InstanceType": "VPNCONN",
        "Priority": 100
      }
    ],
    "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
  }
}
```

## Example2 Creating destination routes of a route-based VPN gateway

This example shows you how to create destination routes of a route-based VPN gateway.

### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateVpnGatewayRoutes
<Common request parameters>

{
  "Routes": [
    {
      "Status": "ENABLE",
      "Priority": "0",
      "InstanceId": "vpnxf99clft2",
      "InstanceType": "VPNCONN",
      "DestinationCidrBlock": "172.0.0.0/16"
    }
  ],
  "VpnGatewayId": "vpngw-7lh15331"
}
```

### Output Example

```
{
  "Response": {
    "Routes": [
      {
        "RouteId": "vpnr-851q3m31",
        "DestinationCidrBlock": "172.0.0.0/16",
        "Status": "ENABLE",
        "InstanceId": "vpnxf99clft2",
        "InstanceType": "VPNCONN",
        "Priority": 0,
        "Type": "Static",
        "CreateTime": "0000-00-00 00:00:00",
        "UpdateTime": "0000-00-00 00:00:00"
      }
    ],
    "RequestId": "a713021b-1942-4569-aa08-d8ad1867c2ad"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	An internal error occurred.
InvalidParameter	A parameter error occurred.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

# SetVpnGatewaysRenewFlag

最近更新时间：2023-08-23 14:11:07

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used set the auto-renewal configuration of a VPN gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: SetVpnGatewaysRenewFlag.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpnGatewayIds.N	Yes	Array of String	VPN gateway IDs
AutoRenewFlag	Yes	Integer	Status of auto-renewal Values: <code>0</code> (Follow original), <code>1</code> (Enable auto-renewal), <code>2</code> (Disable auto-renewal)
Type	No	String	VPNGW type: <code>IPSEC</code> , <code>SSL</code>

## 3. Output Parameters



Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Example

This example shows you how to set the auto-renewal configuration of a VPN gateway.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: SetVpnGatewaysRenewFlag
<Common request parameters>

{
  "AutoRenewFlag": 0,
  "Type": "IPSEC",
  "VpnGatewayIds": [
    "vpn-xxxxxx"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "2f3d2629-a1f0-435e-86d7-fca86a499897"
  }
}
```

## 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
InternalServerError	Internal error.
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

# Direct Connect Gateway APIs

## ReplaceDirectConnectGatewayCcnRoutes

最近更新时间：2023-07-11 17:48:54

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ReplaceDirectConnectGatewayCcnRoutes) is used to modify the specified route according to the route ID. Batch modification is supported.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used API: ReplaceDirectConnectGatewayCc
Version	Yes	String	<a href="#">Common Params</a> . The value used API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter required for this API.
DirectConnectGatewayId	Yes	String	The ID of the Direct Connect gatev such as <code>dcg-prpq1mg1</code>
Routes.N	Yes	Array of <a href="#">DirectConnectGatewayCcnRoute</a>	The list of IDC IP range that must t connected

### 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 CCN routes of a direct connect gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ReplaceDirectConnectGatewayCcnRoutes
&<Common request parameters>
&DirectConnectGatewayId=dcg-prpqlmg1
&Routes.0.RouteId=ccnr-bvipc87w
&Routes.0.DestinationCidrBlock=10.2.2.0/24
&Routes.1.RouteId=ccnr-oc61so0o
&Routes.1.DestinationCidrBlock=10.2.3.0/24
```

##### Output Example

```
{
  "Response": {
    "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
  }
}
```

### 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
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DescribeDirectConnectGatewayCcnRoutes

最近更新时间：2023-07-11 17:48:55

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeDirectConnectGatewayCcnRoutes) is used to query the CCN routes (IDC IP range) of the Direct Connect gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeDirectConnectGatewayCcnRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
DirectConnectGatewayId	Yes	String	The ID of the Direct Connect gateway, such as <code>dcg-prpqlmg1</code> .
CcnRouteType	No	String	The route learning type of the CCN. Available values: <ul style="list-style-type: none"><li><code>BGP</code> - Automatic learning.</li><li><code>STATIC</code> - Static means user-configured. This is the default value.</li></ul>

Offset	No	Integer	Offset.
Limit	No	Integer	The returned quantity.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of objects meeting the condition.
RouteSet	Array of <a href="#">DirectConnectGatewayCcnRoute</a>	The CCN route (IDC IP range) list.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the CCN routes of a direct connect gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeDirectConnectGatewayCcnRoutes
&DirectConnectGatewayId=dcg-prpqlmg1
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RouteSet": [
      {
        "RouteId": "ccnr-bvipc87w",
        "DestinationCidrBlock": "10.33.0.0/24",
        "UpdateTime": "xx",
        "Description": "xx",
        "ASPath": [
          "1000",
          "2000",
          "3000"
        ]
      }
    ]
  }
}
```

```

},
{
  "RouteId": "ccnr-oc61so0o",
  "DestinationCidrBlock": "192.168.0.0/24",
  "UpdateTime": "xx",
  "Description": "xx",
  "ASPath": []
}
],
"TotalCount": 2,
"RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
}
}

```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.



InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

# DeleteDirectConnectGatewayCcnRoutes

最近更新时间：2023-07-11 17:48:55

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteDirectConnectGatewayCcnRoutes) is used to delete the CCN routes (IDC IP range) of a Direct Connect gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteDirectConnectGatewayCcnRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
DirectConnectGatewayId	Yes	String	The ID of the Direct Connect gateway, such as <code>dcg-prpq1mg1</code>
RouteIds.N	Yes	Array of String	The route ID, such as <code>ccnr-f4916u0z</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting the CCN routes of a direct connect gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteDirectConnectGatewayCcnRoutes
&DirectConnectGatewayId=dcg-prpqlmg1
&RouteIds.0=ccnr-bvipc87w
&RouteIds.1=ccnr-oc61so0o
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# CreateDirectConnectGatewayCcnRoutes

最近更新时间：2023-07-11 17:48:56

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (CreateDirectConnectGatewayCcnRoutes) is used to create the CCN route (IDC IP range) of a Direct Connect gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used API: CreateDirectConnectGatewayCcn
Version	Yes	String	<a href="#">Common Params</a> . The value used API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter required for this API.
DirectConnectGatewayId	Yes	String	The ID of the Direct Connect gatev such as <code>dcg-prpqlmg1</code>
Routes.N	Yes	Array of <a href="#">DirectConnectGatewayCcnRoute</a>	The list of IDC IP range that must t connected

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating the CCN routes of a direct connect gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateDirectConnectGatewayCcnRoutes
&<Common request parameters>
&DirectConnectGatewayId=dcg-prpqlmg1
&Routes.0.DestinationCidrBlock=10.2.2.0/24
&Routes.1.DestinationCidrBlock=10.2.3.0/24
```

##### Output Example

```
{
  "Response": {
    "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
  }
}
```

### 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 C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# CreateDirectConnectGateway

最近更新时间：2023-08-23 14:11:35

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create a direct connect gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateDirectConnectGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
DirectConnectGatewayName	Yes	String	The name of the direct connect gateway.
NetworkType	Yes	String	The type of the associated network. Valid values: <ul style="list-style-type: none"><li>VPC</li><li>CCN</li></ul>
NetworkInstanceId	Yes	String	<ul style="list-style-type: none"><li>When the NetworkType is VPC, this value is the VPC instance ID</li><li>When the NetworkType is CCN, this value is the CCN instance ID</li></ul>



GatewayType	No	String	The type of the gateway. Valid values: <ul style="list-style-type: none"> <li>NORMAL - (Default) Standard type. Note: CCN only supports the standard type</li> <li>NAT - NAT type</li> </ul> NAT gateway supports network address translation. The specified type cannot be modified. A VPC can create one NAT direct connect gateway and one non-NAT direct connect gateway
ModeType	No	String	CCN route publishing method. Valid values: <code>standard</code> and <code>exquisite</code> . This parameter is only valid for the CCN direct connect gateway.
Zone	No	String	Availability zone where the direct connect gateway resides.
HaZoneGroupId	No	String	ID of DC highly available placement group

### 3. Output Parameters

Parameter Name	Type	Description
DirectConnectGateway	<a href="#">DirectConnectGateway</a>	The object of the direct connect gateway.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a NAT direct connect gateway associated with a VPC

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateDirectConnectGateway
&DirectConnectGatewayName=test
&NetworkType=VPC
&NetworkInstanceId=vpc-m7sr81gh
&GatewayType=NAT
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "DirectConnectGateway": {
      "DirectConnectGatewayId": "d cg-gjug0kul",
      "DirectConnectGatewayName": "test",
      "DirectConnectGatewayIp": "10.21.0.5",
      "EnableBGPCommunity": false,
      "VpcId": "vpc-m7sr81gh",
      "CcnId": "",
      "EnableBGP": false,
      "CcnRouteType": "BGP",
      "NetworkType": "VPC",
      "NetworkInstanceId": "vpc-m7sr81gh",
      "GatewayType": "NAT",
      "VXLANSupport": [
        true
      ],
      "NatGatewayId": "nat-m7dr11gc",
      "LocalZone": false,
      "Zone": "ap-guangzhou-1",
      "ModeType": "standard",
      "NewAfc": 0,
      "FlowDetailsUpdateTime": "xx",
      "EnableFlowDetails": 0,
      "AccessNetworkType": "Unknown",
      "CreateTime": "2020-09-22 00:00:00"
    },
    "RequestId": "b8351d12-3c82-4d4b-9d88-972e02ca4620"
  }
}
```

## Example2 Creating a standard direct connect gateway associated with a CCN

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateDirectConnectGateway
&DirectConnectGatewayName=test
&NetworkType=CCN
&NetworkInstanceId=ccn-8j0phqix
&GatewayType=NORMAL
&<Common request parameters>
```

### Output Example

```
{
  "Response": {
    "DirectConnectGateway": {
      "DirectConnectGatewayId": "d cg-3vwxt61v",
      "DirectConnectGatewayName": "test",
      "VpcId": "vpc-ili3ejt",
      "NetworkType": "CCN",
      "NetworkInstanceId": "ccn-c1aopa13",
      "GatewayType": "NORMAL",
      "EnableBGPCommunity": true,
      "EnableBGP": true,
      "CcnId": "ccn-8j0phqix",
      "CcnRouteType": "BGP",
      "NatGatewayId": "",
      "DirectConnectGatewayIp": "10.21.0.5",
      "LocalZone": false,
      "Zone": "ap-guangzhou-1",
      "ModeType": "standard",
      "VXLANSupport": [
        true
      ],
      "CreateTime": "0000-00-00 00:00:00",
      "NewAfc": 1,
      "FlowDetailsUpdateTime": "xx",
      "EnableFlowDetails": 0,
      "AccessNetworkType": "VXLAN"
    },
    "RequestId": "b8351d12-3c82-4d4b-9d88-972e02ca4620"
  }
}
```

## 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

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.VpgHaGroupNotFound	The cross-AZ placement group of the DC gateway doesn't exist.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AppIdMismatch	The resource is not under the specified AppId.
UnsupportedOperation.CcnRouteTableNotExist	The specified route table does not exist.
UnsupportedOperation.UnableCrossBorder	Cross border is not supported.

# ModifyDirectConnectGatewayAttribute

最近更新时间：2023-07-11 17:48:54

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify the attributes of a direct connect gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyDirectConnectGatewayAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
DirectConnectGatewayId	Yes	String	The unique ID of the direct connect gateway, such as <code>dcg-9o233uri</code> .
DirectConnectGatewayName	No	String	The direct connect gateway name. You can enter any name within 60 characters.
CcnRouteType	No	String	The CCN route-learning type. Valid values: <code>BGP</code> (Automatic learning), <code>STATIC</code> (Static, that is, user-configured). You can only modify <code>CcnRouteType</code> for a CCN direct connect gateway with BGP enabled.

ModeType	No	String	CCN route publishing method. Valid values: <code>standard</code> and <code>exquisite</code> . You can only modify <code>ModeType</code> for a CCN direct connect gateway.
----------	----	--------	---

### 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 attributes of a direct connect gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyDirectConnectGatewayAttribute
&DirectConnectGatewayId=dcg-k6cswwhx
&DirectConnectGatewayName=new+name
&CcnRouteType=BGP
&<Common request parameters>
```

##### 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](#)
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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	A parameter error occurred.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.
UnsupportedOperation.DirectConnectGatewayIsUpdatingCommunity	Direct connect gateway is updating the BGP Community attribute.

# DescribeDirectConnectGateways

最近更新时间：2023-07-11 17:48:55

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query direct connect gateways.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeDirectConnectGateways.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
DirectConnectGatewayIds.N	No	Array of String	The unique ID of the direct connect gateway, such as <code>dcg-9o233uri</code> .
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. <code>DirectConnectGatewayIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li>direct-connect-gateway-id - String - The unique ID of the direct connect gateway, such as <code>dcg-9o233uri</code>.</li></ul>



			<ul style="list-style-type: none"> <li>• <code>direct-connect-gateway-name</code> - String - The name of the direct connect gateway. The default is fuzzy query.</li> <li>• <code>direct-connect-gateway-ip</code> - String - The IP of the direct connect gateway.</li> <li>• <code>gateway-type</code> - String - The gateway type. Valid values: <code>NORMAL</code> (Standard type), <code>NAT</code> (NAT type).</li> <li>• <code>network-type</code> - String - The network type. Valid values: <code>VPC</code> (VPC type), <code>CCN</code> (CCN type).</li> <li>• <code>ccn-id</code> - String - The ID of the CCN where the direct connect gateway resides.</li> <li>• <code>vpc-id</code> - String - The ID of the VPC where the direct connect gateway resides.</li> </ul>
Offset	No	Integer	The offset.
Limit	No	Integer	Max number of results returned

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of eligible objects.
DirectConnectGatewaySet	Array of <a href="#">DirectConnectGateway</a>	The object array of the direct connect gateway.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying direct connect gateways by ID

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeDirectConnectGateways
&DirectConnectGatewayIds.0=dcg-dimeg9zd
&DirectConnectGatewayIds.1=dcg-6eeis68f
&DirectConnectGatewayIds.2=dcg-94cdyvfr
&<Common request parameters>
```

## Output Example

```
{
  "Response": {
    "DirectConnectGatewaySet": [
      {
        "DirectConnectGatewayId": "d cg-6eeis68f",
        "DirectConnectGatewayName": "shiliangxie_test",
        "DirectConnectGatewayIp": "10.6.223.4",
        "GatewayType": "NORMAL",
        "NetworkType": "CCN",
        "NetworkInstanceId": "",
        "VpcId": "vpc-jkmjx7pd",
        "CcnId": "",
        "CcnRouteType": "STATIC",
        "EnableBGP": false,
        "CreateTime": "2018-10-22 21:22:26"
      },
      {
        "DirectConnectGatewayId": "d cg-94cdyvfr",
        "DirectConnectGatewayName": "test",
        "DirectConnectGatewayIp": "10.144.25.62",
        "GatewayType": "NORMAL",
        "NetworkType": "CCN",
        "NetworkInstanceId": "",
        "VpcId": "vpc-f796it7v",
        "CcnId": "",
        "CcnRouteType": "STATIC",
        "EnableBGP": false,
        "CreateTime": "2018-08-21 11:40:09"
      },
      {
        "DirectConnectGatewayId": "d cg-dimeg9zd",
        "DirectConnectGatewayName": "test",
        "DirectConnectGatewayIp": "10.144.25.62",
        "GatewayType": "NORMAL",
        "NetworkType": "CCN",
        "NetworkInstanceId": "ccn-atw2c2j1",
        "VpcId": "vpc-eg3eig77",
        "CcnId": "ccn-atw2c2j1",
        "CcnRouteType": "STATIC",
        "EnableBGP": false,
        "CreateTime": "2018-08-21 11:36:50"
      }
    ],
    "TotalCount": 3,
  }
}
```

```
"RequestId": "1b64d03b-7d2d-4d9b-b46e-49de115ac283"  
}  
}
```

## Example2 Querying the list of direct connect gateways by multiple conditions

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeDirectConnectGateways  
&Filters.0.Name=direct-connect-gateway-name  
&Filters.0.Values.0=test  
&Filters.1.Name=gateway-type  
&Filters.1.Values.0=NORMAL  
&Filters.2.Name=vpc-id  
&Filters.2.Values.0=vpc-f796it7v  
&Filters.2.Values.1=vpc-jkmjx7pd  
&<Common request parameters>
```

### Output Example

```
{  
  "Response": {  
    "DirectConnectGatewaySet": [  
      {  
        "DirectConnectGatewayId": "dcg-94cdyvfr",  
        "DirectConnectGatewayName": "test",  
        "DirectConnectGatewayIp": "10.144.25.62",  
        "GatewayType": "NORMAL",  
        "NetworkType": "CCN",  
        "NetworkInstanceId": "",  
        "VpcId": "vpc-f796it7v",  
        "CcnId": "",  
        "CcnRouteType": "STATIC",  
        "EnableBGP": false,  
        "CreateTime": "2018-08-21 11:40:09"  
      },  
      {  
        "DirectConnectGatewayId": "dcg-6eeis68f",  
        "DirectConnectGatewayName": "shiliangxie_test",  
        "DirectConnectGatewayIp": "10.6.223.4",  
        "GatewayType": "NORMAL",  
        "NetworkType": "CCN",  
        "NetworkInstanceId": "",  
        "VpcId": "vpc-jkmjx7pd",  
        "CcnId": "",  
      }  
    ]  
  }  
}
```

```
"CcnRouteType": "STATIC",
"EnableBGP": false,
"CreateTime": "2018-10-22 21:22:26"
},
],
"TotalCount": 2,
"RequestId": "8c77ce69-68e2-4dfa-94ea-a6df5c914f52"
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.

InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
UnsupportedOperation	Unsupported operation.

# DeleteDirectConnectGateway

最近更新时间：2023-07-11 17:48:56

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete a direct connect gateway.

- For a NAT gateway, NAT and ACL rules will be cleared upon the deletion of a direct connect gateway.
- After the deletion of a direct connect gateway, the routing policy associated with the gateway in the route table will also be deleted. This API is completed asynchronously. If you need to query the async job execution results, please use the `RequestId` returned by this API to poll the `QueryTask` API.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteDirectConnectGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
DirectConnectGatewayId	Yes	String	The unique ID of the direct connect gateway, such as <code>dcg-9o233uri</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a direct connect gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteDirectConnectGateway
&DirectConnectGatewayId=dcg-9o233uri
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "fcb47621-838b-428e-8c33-6e210d93c451"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [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	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.
UnsupportedOperation.DCGatewayNatRuleExists	Unable to delete: There're NAT rules associated with this direct connect gateway. Please delete all NAT rules first.
UnsupportedOperation.RouteTableHasSubnetRule	The routing table is bound to a subnet.



# DisassociateDirectConnectGatewayNatGateway

最近更新时间：2023-07-11 17:48:55

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to unbind a direct connect gateway from a NAT Gateway. After unbinding, the direct connect gateway cannot access internet through the NAT Gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DisassociateDirectConnectGatewayNatGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The direct connect gateway ID.
NatGatewayId	Yes	String	The NAT Gateway ID.
DirectConnectGatewayId	Yes	String	The ID of the VPC instance, which can be obtained from the <code>VpcId</code> field in response of the <code>DescribeVpcs</code>

API.

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Unbinding a direct connect gateway from a NAT gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DisassociateDirectConnectGatewayNatGateway
&VpcId="vpc-8xpno8ee"
&DirectConnectGatewayId="dcg-fxa6gh5t"
&NatGatewayId="nat-ig8xpno8"
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

### 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

# AssociateDirectConnectGatewayNatGateway

最近更新时间：2023-08-23 14:11:35

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to bind a direct connect gateway with a NAT gateway, and direct its default route to the NAT Gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AssociateDirectConnectGatewayNatGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID. VPC instance ID, which can be obtained from the <code>VpcId</code> field in the response of the <code>DescribeVpcs</code> API.
NatGatewayId	Yes	String	The NAT Gateway ID.
DirectConnectGatewayId	Yes	String	The direct connect gateway ID.

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Binding a direct connect gateway with a NAT gateway

This example shows you how to bind a direct connect gateway with a public NAT gateway instance.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AssociateDirectConnectGatewayNatGateway
&VpcId=vpc-8xpno8ee
&DirectConnectGatewayId=dcg-fxa6gh5t
&NatGatewayId=nat-ig8xpno8
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

### 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.VpgTypeNotMatch	This feature is not available for this direct connect gateway.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

# InquirePriceCreateDirectConnectGateway

最近更新时间：2023-07-11 17:48:54

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the price of creating a direct connect gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: InquirePriceCreateDirectConnectGateway.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.

## 3. Output Parameters

Parameter Name	Type	Description
TotalCost	Integer	Standard access fee for a direct connect gateway Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

RealTotalCost	Integer	Actual access fee for a direct connect gateway Note: this field may return <code>null</code> , 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 price of creating a direct connect gateway

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=InquirePriceCreateDirectConnectGateway
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "TotalCost": 10,
    "RealTotalCost": 10,
    "RequestId": "128826e5-2881-4c60-9168-73899331801c"
  }
}
```

## 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++](#)



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## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

# Cloud Connect Network APIs

## SetCcnRegionBandwidthLimits

最近更新时间：2023-08-23 14:11:35

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (SetCcnRegionBandwidthLimits) is used to set the outbound bandwidth cap for CCNs in each region. This API can only set the outbound bandwidth cap for regions in the network instances that have already been associated.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: SetCcnRegionBandwidthLimits.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
CcnRegionBandwidthLimits.N	Yes	Array of	The outbound bandwidth cap of

		<a href="#">CcnRegionBandwidthLimit</a>	each CCN region.
SetDefaultLimitFlag	No	Boolean	Whether to restore the region outbound bandwidth limit or inter-region bandwidth limit to default 1 Gbps. Valid values: <code>false</code> (no); <code>true</code> (yes). Default value: <code>false</code> . When the parameter is set to <code>true</code> , the CCN instance created will not be displayed in the console.

### 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 outbound bandwidth limit for CCN regions

This example shows you how to set the outbound bandwidth limit for CCN regions. In this case, we will set the limit for `ap-guangzhou` to 1,000 Mbps and `ap-shanghai` to 500 Mbps.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=SetCcnRegionBandwidthLimits
&CcnId=ccn-gree2261
&CcnRegionBandwidthLimits.0.Region=ap-guangzhou
&CcnRegionBandwidthLimits.0.BandwidthLimit=1000
&CcnRegionBandwidthLimits.1.Region=ap-shanghai
&CcnRegionBandwidthLimits.1.BandwidthLimit=500
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
```

```
"RequestId": "9c53ff69-1bb6-4c89-adbb-812233a85acc"  
}  
}
```

## Example2 Setting the inter-region bandwidth limit for CCN regions

To set the inter-region bandwidth limit, you need to specify the source and destination regions. If the source or destination region is a BM region, please set the `IsBm` or `DstIsBm` parameter to be `true`. In the example, the inter-region bandwidth limit between ap-guangzhou and ap-shanghai BM regions is 1,000 Mbps, and that between ap-guangzhou and ap-beijing regions is 500 Mbps.

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=SetCcnRegionBandwidthLimits  
&CcnId=ccn-gree2261  
&CcnRegionBandwidthLimits.0.Region=ap-guangzhou  
&CcnRegionBandwidthLimits.0.BandwidthLimit=1000  
&CcnRegionBandwidthLimits.0.DstRegion=ap-shanghai  
&CcnRegionBandwidthLimits.0.DstIsBm=true  
&CcnRegionBandwidthLimits.1.Region=ap-guangzhou  
&CcnRegionBandwidthLimits.1.BandwidthLimit=500  
&CcnRegionBandwidthLimits.1.DstRegion=ap-beijing  
&<Common request parameters>
```

### Output Example

```
{  
  "Response": {  
    "RequestId": "9c53ff69-1bb6-4c89-adbb-812233a85acc"  
  }  
}
```

## 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
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.NotPostpaidCcnOperation	Unsupported operation: the current CCN instance is not billed on a pay-as-you-go basis.

# ModifyCcnAttribute

最近更新时间：2023-08-23 14:11:36

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyCcnAttribute) is used to modify CCN attributes.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyCcnAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
CcnName	No	String	The name of CCN instance. Up to 60 characters allowed. It can contain up to 60 bytes. Either <code>CcnName</code> or <code>CcnDescription</code> must be specified.
CcnDescription	No	String	The description of CCN instance. Up to 100 characters allowed. It can contain up to 60 bytes. Either <code>CcnName</code> or <code>CcnDescription</code> must be specified.

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying the name and description of a CCN instance

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyCcnAttribute
&CcnId=ccn-gjug0kul
&CcnName=new+name
&CcnDescription=new+description
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.



# EnableCcnRoutes

最近更新时间：2023-07-11 17:48:58

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (EnableCcnRoutes) is used to enable CCN routes that are already added.

This API is used to verify whether there will be conflict with an existing route after a CCN route is enabled. If there is a conflict, the route will not be enabled, and the process will fail. When a conflict occurs, you must disable the conflicting route before you can enable the desired route.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: EnableCcnRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
RouteIds.N	Yes	Array of String	The unique ID of the CCN routing policy, such as <code>ccnr-f4916u0z</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Enabling multiple routing policies

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=EnableCcnRoutes
&CcnId=ccn-gree2261
&RouteIds.0=ccnr-bvipc87w
&RouteIds.1=ccnr-oc61so0o
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.Ecmp	ECMP is not supported.

# DisableCcnRoutes

最近更新时间：2023-05-17 17:38:29

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DisableCcnRoutes) is used to disable CCN routes that are already enabled.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DisableCcnRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
Routelds.N	Yes	Array of String	The unique ID of the CCN routing policy, such as <code>ccnr-f4916u0z</code> .

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Disabling multiple routing policies

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DisableCcnRoutes
&CcnId=ccn-gree2261
&RouteIds.0=ccnr-bvipc87w
&RouteIds.1=ccnr-oc61so0o
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DetachCcnInstances

最近更新时间：2023-07-11 17:48:58

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DetachCcnInstances) is used to unbind a specified network instance from a CCN instance.

After unbinding the network instance, the corresponding routing policy will also be deleted.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DetachCcnInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
Instances.N	Yes	Array of <a href="#">CcnInstance</a>	The list of network instances to be unbound

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Disassociating multiple network instances from a CCN

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DetachCcnInstances
&CcnId=ccn-gree2261
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1zrr9
&Instances.0.InstanceRegion=ap-guangzhou
&Instances.1.InstanceType=DIRECTCONNECT
&Instances.1.InstanceId=dcg-98qosdc3
&Instances.1.InstanceRegion=ap-guangzhou
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

### 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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.ParameterMismatch	Invalid parameter format
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AppIdMismatch	The resource is not under the specified AppId.
UnsupportedOperation.AppIdNotFound	The AppId doesn't exist.
UnsupportedOperation.CcnNotAttached	The instance is not associated with a CCN.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# DescribeCcns

最近更新时间：2023-08-23 14:11:37

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeCcns) is used to query the CCN list.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeCcns.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnIds.N	No	Array of String	The CCN instance ID, such as <code>ccn-f4916u0z</code> . Each request can have a maximum of 100 instances. <code>CcnIds</code> and <code>Filters</code> cannot be specified at the same time
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <code>CcnIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li><code>ccn-id</code> - String - (Filter condition) The unique ID of the CCN, such as <code>vpc-f4916u0z</code>.</li><li><code>ccn-name</code> - String - (Filter condition) The CCN name.</li><li><code>ccn-description</code> - String - (Filter condition) CCN description.</li></ul>

			<ul style="list-style-type: none"> <li>state - String - (Filter condition) The instance status. 'ISOLATED': Isolated (the account is in arrears and the service is suspended.) 'AVAILABLE': Running.</li> <li>tag-key - String - Required: no - (Filter condition) Filters by tag key.</li> <li>tag:tag-key - String - Required: no - (Filter condition) Filters by tag key pair. For this parameter, tag-key will be replaced with a specific tag key. For more information, see this example: <b>Querying the list of CCNs bound to tags.</b></li> </ul>
Offset	No	Integer	Offset
Limit	No	Integer	The returned quantity
OrderField	No	String	Order fields support CcnId , CcnName , CreateTime , State , and QosLevel
OrderDirection	No	String	Order methods. Ascending: ASC , Descending: DESC .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of objects meeting the condition.
CcnSet	Array of <a href="#">CCN</a>	CCN object.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying CCN instances by IDs

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCcns
```

```
<Common request parameters>
```

```
{  
  "Ccns": [  
    "ccn-8j0phqix"  
  ]  
}
```

## Output Example

```
{  
  "Response": {  
    "TotalCount": 1,  
    "RequestId": "73159790-39b3-48e8-9d61-29e11eed1acd",  
    "CcnSet": [  
      {  
        "InstanceCount": 1,  
        "TagSet": [  
          {  
            "Value": "env",  
            "Key": "test"  
          }  
        ],  
        "RoutePriorityFlag": true,  
        "CcnId": "ccn-8j0phqix",  
        "CcnDescription": "test",  
        "State": "AVAILABLE",  
        "InstanceChargeType": "POSTPAID",  
        "CcnName": "test",  
        "QosLevel": "AU",  
        "BandwidthLimitType": "INTER_REGION_LIMIT",  
        "CreateTime": "2020-09-22 00:00:00",  
        "RouteTableFlag": null,  
        "RouteTableCount": null  
      }  
    ]  
  }  
}
```

## Example2 Querying CCN instances by names

### Input Example

```
POST / HTTP/1.1  
Host: vpc.tencentcloudapi.com
```

```
Content-Type: application/json
X-TC-Action: DescribeCcns
<Common request parameters>
```

```
{
  "Filters": [
    {
      "Values": [
        "test"
      ],
      "Name": "ccn-name"
    }
  ]
}
```

### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "73159790-39b3-48e8-9d61-29e11eed1acd",
    "CcnSet": [
      {
        "InstanceCount": 1,
        "TagSet": [
          {
            "Value": "env",
            "Key": "test"
          }
        ],
        "RoutePriorityFlag": true,
        "CcnId": "ccn-8j0phqix",
        "CcnDescription": "test",
        "State": "AVAILABLE",
        "InstanceChargeType": "POSTPAID",
        "CcnName": "test",
        "QosLevel": "AU",
        "BandwidthLimitType": "INTER_REGION_LIMIT",
        "CreateTime": "2020-09-22 00:00:00",
        "RouteTableFlag": null,
        "RouteTableCount": null
      }
    ]
  }
}
```

## Example3 Querying the list of CCN instances bound with the specified tag

This example shows you how to query the CCN instances associated with the tag `env:test` .

### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCcns
<Common request parameters>

{
  "Filters": [
    {
      "Values": [
        "test"
      ],
      "Name": "tag:env"
    }
  ]
}
```

### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "73159790-39b3-48e8-9d61-29e11eed1acd",
    "CcnSet": [
      {
        "InstanceCount": 1,
        "TagSet": [
          {
            "Value": "env",
            "Key": "test"
          }
        ],
        "RoutePriorityFlag": true,
        "CcnId": "ccn-8j0phqix",
        "CcnDescription": "test",
        "State": "AVAILABLE",
        "InstanceChargeType": "POSTPAID",
        "CcnName": "test",
        "QosLevel": "AU",
        "BandwidthLimitType": "INTER_REGION_LIMIT",
```

```
"CreateTime": "2020-09-22 00:00:00",
"RouteTableFlag": null,
"RouteTableCount": null
}
]
}
}
```

## 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
InvalidParameter	A parameter error occurred.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.

InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.



# DescribeCcnRoutes

最近更新时间：2023-08-23 14:11:37

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeCcnRoutes) is used to query routes that have been added to a CCN.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeCcnRoutes.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-gree2261</code> .
RouteIds.N	No	Array of String	The unique ID of the CCN routing policy, such as <code>ccnr-f4916u0z</code> .
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. <code>RouteIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li>route-id - String - (Filter condition) Routing policy ID.</li><li>cidr-block - String - (Filter condition) Destination.</li><li>instance-type - String - (Filter condition) The next hop type.</li><li>instance-region - String - (Filter condition) The next hop region.</li></ul>

			<ul style="list-style-type: none"> <li>instance-id - String - (Filter condition) The instance ID of the next hop.</li> <li>route-table-id - String - (Filter condition) The list of route table IDs in the format of <code>ccntr-1234edfr</code> . Filters by the route table ID.</li> </ul>
Offset	No	Integer	Offset
Limit	No	Integer	The returned quantity

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of objects meeting the condition.
RouteSet	Array of <a href="#">CcnRoute</a>	The CCN routing policy object.
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 CCN routes

This example shows you how to query the list of CCN routes.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeCcnRoutes
&CcnId=ccn-gree2261
&Filters.0.Name=route-id
&Filters.0.Values.0=ccnr-bvipc87w
&Filters.0.Values.1=ccnr-oc61so0o
&Filters.1.Name=instance-type
&Filters.1.Values.0=VPC
&Filters.1.Values.1=DIRECTCONNECT
&Filters.2.Name=instance-region
&Filters.2.Values.0=ap-guangzhou
&Filters.2.Values.1=ap-beijing
&Filters.2.Values.2=ap-shanghai
&Filters.2.Values.3=eu-frankfurt
```

```
&Filters.3.Name=instance-id
&Filters.3.Values.0=vpc-r1ckkpid
&Filters.3.Values.1=dcg-98qosdc3
&Filters.4.Name=cidr-block
&Filters.4.Values.0=10.33.0.0/16
&Filters.4.Values.1=192.168.0.0/24
&<Common request parameters>
```

## Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "3e866888-83ea-4716-b99b-21592cba6548",
    "RouteSet": [
      {
        "DestinationCidrBlock": "10.33.0.0/16",
        "UpdateTime": "2020-09-22 00:00:00",
        "RoutePriority": 1,
        "InstanceId": "vpc-r1ckkpid",
        "InstanceUin": "234532345",
        "Enabled": true,
        "InstanceExtraName": "test",
        "IsBgp": true,
        "InstanceRegion": "ap-guangzhou",
        "ExtraState": "Running",
        "RouteId": "ccnr-bvipc87w",
        "InstanceName": "test",
        "InstanceType": "VPC"
      },
      {
        "DestinationCidrBlock": "192.168.0.0/24",
        "UpdateTime": "2020-09-22 00:00:00",
        "RoutePriority": 1,
        "InstanceId": "vpc-r1ckkpid",
        "InstanceName": "test",
        "Enabled": true,
        "InstanceExtraName": "test",
        "IsBgp": true,
        "InstanceRegion": "ap-guangzhou",
        "ExtraState": "Running",
        "RouteId": "ccnr-oc61so0o",
        "InstanceUin": "234532345",
        "InstanceType": "VPC"
      }
    ]
  }
}
```

```
}  
}
```

## 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.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AppIdNotFound	The APPIId doesn't exist.

# DescribeCcnRegionBandwidthLimits

最近更新时间：2023-05-17 17:38:31

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the outbound bandwidth caps of all regions connected with a CCN instance. The API only returns regions included in the associated network instances.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeCcnRegionBandwidthLimits.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID in the format of <code>ccn-f4916u0z</code> .

## 3. Output Parameters

Parameter Name	Type	Description
CcnRegionBandwidthLimitSet	Array of	The outbound bandwidth caps of all regions

	<a href="#">CcnRegionBandwidthLimit</a>	connected with the specified CCN instance
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying the bandwidth cap of a CCN in each region

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeCcnRegionBandwidthLimits
&<Common request parameters>
&CcnId=ccn-gree2261
```

#### Output Example

```
{
  "Response": {
    "CcnRegionBandwidthLimitSet": [
      {
        "BandwidthLimit": 50,
        "Region": "ap-guangzhou"
      },
      {
        "BandwidthLimit": 10000,
        "Region": "ap-beijing"
      },
      {
        "BandwidthLimit": 2000,
        "Region": "ap-shanghai"
      }
    ],
    "RequestId": "9c53ff69-1bb6-4c89-adbb-812233a85acc"
  }
}
```

## 5. Developer Resources

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## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Malformed	Invalid input parameter format.
UnsupportedOperation	Unsupported operation.

# DescribeCcnAttachedInstances

最近更新时间：2023-08-23 14:11:37

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeCcnAttachedInstances) is used to query the network instances associated with the CCN instance.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeCcnAttachedInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Offset	No	Integer	Offset
Limit	No	Integer	The returned quantity
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions: <ul style="list-style-type: none"><li><code>ccn-id</code> - String - The CCN instance ID.</li><li><code>instance-type</code> - String - The associated instance type.</li><li><code>instance-region</code> - String - The associated instance region.</li><li><code>instance-id</code> - String - The instance ID of the associated instance.</li></ul>



CcnId	No	String	The ID of the CCN instance
OrderField	No	String	The order field supports <code>CcnId</code> , <code>InstanceType</code> , <code>InstanceId</code> , <code>InstanceName</code> , <code>InstanceRegion</code> , <code>AttachedTime</code> , and <code>State</code> .
OrderDirection	No	String	Order methods. Ascending: <code>ASC</code> , Descending: <code>DESC</code> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of objects meeting the condition.
InstanceSet	Array of <a href="#">CcnAttachedInstance</a>	The list of associated instances.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying instances associated with this CCN instance

This example shows you how to query the network instances associated with a CCN instance.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCcnAttachedInstances
<Common request parameters>

{
  "Filters": [
    {
      "Values": [
        "vpc-r1ckkpid",
        "vpc-2u0s99fx",
        "dcg-98qosdc3",
        "vpc-3dr1zrr9",
```

```

"dcg-ni7ps9kb"
],
"Name": "instance-id"
},
{
"Values": [
"ccn-gree2261"
],
"Name": "ccn-id"
}
]
}

```

## Output Example

```

{
"Response": {
"InstanceSet": [
{
"CcnId": "ccn-gree2261",
"InstanceType": "VPC",
"InstanceId": "vpc-2u0s99fx",
"InstanceName": "test1",
"InstanceRegion": "ap-guangzhou",
"InstanceUin": "38059483",
"CidrBlock": [
"10.0.0.0/16"
],
"State": "PENDING",
"CcnUin": "100000072292",
"InstanceArea": "CHINA_MAINLAND",
"AttachedTime": "2021-03-03 16:19:44",
"RouteTableId": null,
"RouteTableName": null,
"Description": ""
},
{
"CcnId": "ccn-gree2261",
"InstanceType": "VPC",
"InstanceId": "vpc-r1ckkpid",
"InstanceName": "vpc0420",
"InstanceRegion": "ap-guangzhou",
"InstanceUin": "88419914",
"CidrBlock": [
"10.33.0.0/16"
],

```

```
"State": "REJECTED",
"CcnUin": "100000072292",
"InstanceArea": "CHINA_MAINLAND",
"AttachedTime": "2021-03-03 16:19:44",
"RouteTableId": null,
"RouteTableName": null,
"Description": ""
},
{
  "CcnId": "ccn-gree2261",
  "InstanceType": "VPC",
  "InstanceId": "vpc-3dr1zrr9",
  "InstanceName": "10.100.0.0/16",
  "InstanceRegion": "ap-guangzhou",
  "InstanceUin": "979137",
  "CidrBlock": [
    "10.100.0.0/16"
  ],
  "State": "ACTIVE",
  "CcnUin": "100000072292",
  "InstanceArea": "CHINA_MAINLAND",
  "AttachedTime": "2021-03-03 16:19:44",
  "RouteTableId": null,
  "RouteTableName": null,
  "Description": ""
},
{
  "CcnId": "ccn-gree2261",
  "InstanceType": "DIRECTCONNECT",
  "InstanceId": "dcg-98qosdc3",
  "InstanceName": "",
  "InstanceRegion": "ap-guangzhou",
  "InstanceUin": "979137",
  "CidrBlock": [
    "192.168.0.0/24"
  ],
  "State": "ACTIVE",
  "CcnUin": "100000072292",
  "InstanceArea": "CHINA_MAINLAND",
  "AttachedTime": "2021-03-03 16:19:44",
  "RouteTableId": null,
  "RouteTableName": null,
  "Description": ""
},
{
  "CcnId": "ccn-gree2261",
  "InstanceType": "DIRECTCONNECT",
```

```
"InstanceId": "dcg-ni7ps9kb",
"InstanceName": "",
"InstanceRegion": "ap-guangzhou",
"InstanceUin": "979137",
"CidrBlock": [
  "192.168.1.0/24"
],
"State": "ACTIVE",
"CcnUin": "100000072292",
"InstanceArea": "CHINA_MAINLAND",
"AttachedTime": "2021-03-03 16:19:44",
"RouteTableId": null,
"RouteTableName": null,
"Description": ""
}
],
"TotalCount": 5,
"RequestId": "0227fa04-3298-470c-8477-149f309a386a"
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AppIdNotFound	The AppId doesn't exist.

# DeleteCcn

最近更新时间：2023-05-17 17:38:31

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteCcn) is used to delete CCNs.

- After deletion, the routes between all instances associated with the CCN will be deleted, and the network will be interrupted. Please confirm this operation in advance.
- CCN deletion is an irreversible operation. Please proceed with caution.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteCcn.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a CCN instance

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteCcn
&CcnId=ccn-8j0phqix
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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
InvalidParameter	A parameter error occurred.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.ParameterMismatch	Invalid parameter format
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AppIdMismatch	The resource is not under the specified AppId.
UnsupportedOperation.BandwidthNotExpired	Unable to delete the current CCN instance: its monthly-subscribed bandwidth does not expire.
UnsupportedOperation.CcnHasFlowLog	This CCN instance cannot be deleted as it has flow logs.



# CreateCcn

最近更新时间：2023-05-17 17:38:31

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create a CCN instance.

- You can add tags to a CCN instance upon the creation. The tags are added successfully if they are listed in the response.
- There is a quota of CCN instances for each account. For more information, see product documentation. To increase the quota, please submit a ticket.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateCcn.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnName	Yes	String	The name of the CCN. The maximum length is 60 characters.
CcnDescription	No	String	The description of the CCN. The maximum length is 100 characters.
QosLevel	No	String	CCN service quality, 'PT': Platinum, 'AU': Gold, 'AG': Silver. The default is 'AU'.

InstanceChargeType	No	String	The billing method. POSTPAID: postpaid by traffic. Default: POSTPAID.
BandwidthLimitType	No	String	The bandwidth limit type. Valid values: OUTER_REGION_LIMIT: region outbound bandwidth limit; INTER_REGION_LIMIT: inter-region bandwidth limit. Default value: OUTER_REGION_LIMIT. Monthly-subscribed CCN instances only support inter-region bandwidth limit, while pay-as-you-go CCN instances support the both bandwidth limit types.
Tags.N	No	Array of Tag	Bound tags, such as [{"Key": "city", "Value": "shanghai"}].

### 3. Output Parameters

Parameter Name	Type	Description
Ccn	CCN	The CCN object.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a CCN

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateCcn
&<Common request parameters>
&CcnName=test+name
&CcnDescription=test+description
&QosLevel=PT
&Tags.0.Key=city
&Tags.0.Value=shanghai
```

##### Output Example

```
{
  "Response": {
    "Ccn": {
      "CcnId": "ccn-gjug0kul",
      "CcnName": "test name",
      "CcnDescription": "test description",
      "InstanceCount": 0,
      "QosLevel": "PT",
      "InstanceChargeType": "POSTPAID",
      "BandwidthLimitType": "OUTER_REGION_LIMIT",
      "TagSet": [
        {
          "Key": "city",
          "Value": "shanghai"
        }
      ],
    },
    "RequestId": "b8351d12-3c82-4d4b-9d88-972e02ca4620"
  }
}
```

## 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
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.ParameterMismatch	Invalid parameter format
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.

LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
MissingParameter	Missing parameter.
UnauthorizedOperation.NoRealNameAuthentication	Identity verification has not been completed for the account.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InsufficientFunds	Insufficient account balance.
UnsupportedOperation.PrepaidCcnOnlySupportInterRegionLimit	The monthly subscription CCN instance only supports the inter-region bandwidth limit.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.
UnsupportedOperation.UserAndCcnChargeTypeNotMatch	The selected CCN instance cannot be created because the payment type is not supported.

# AttachCcnInstances

最近更新时间：2023-08-23 14:11:37

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to add a network instance to a CCN instance. Network instances include VPCs and Direct Connect gateways.

The number of network instances that each CCN can be associated with is limited. For more information, see the product documentation. If you need to associate more instances, please submit a ticket.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AttachCcnInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
Instances.N	Yes	Array of <a href="#">CcnInstance</a>	List of associated network instances
CcnUin	No	String	The UIN (root account) of the CCN. By default, the current

		account belongs to the UIN
--	--	----------------------------

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Associating a CCN with multiple network instances

Associating a CCN with multiple network instances

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AttachCcnInstances
&CcnId=ccn-gree2261
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1zrr9
&Instances.0.InstanceRegion=ap-guangzhou
&Instances.1.InstanceType=DIRECTCONNECT
&Instances.1.InstanceId=dcg-98qosdc3
&Instances.1.InstanceRegion=ap-guangzhou
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

### 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CcnAttachBmvpcLimitExceeded	The number of BM VPCs associated with the specified CCN has reached the upper limit.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
LimitExceeded.CurrentInstanceAttachedCcnInstances	Reached the upper limit of associated CCN instances
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.



UnsupportedOperation.AppIdNotFound	The APPID doesn't exist.
UnsupportedOperation.CcnAttached	The instance is already associated with a CCN.
UnsupportedOperation.CcnCrossAccount	You cannot associated the CCN instance with resources under other Tencent Cloud accounts.
UnsupportedOperation.CcnOrdinaryAccountRefuseAttach	In cross-account association, instances under an Auto-Driving Cloud account cannot be associated with CCNs created under an ordinary account.
UnsupportedOperation.CcnRouteTableNotExist	The specified route table does not exist.
UnsupportedOperation.InstanceAndRtbNotMatch	The configured instance does not match with the route table.
UnsupportedOperation.InstanceCdcIdNotMatchCcnCdcId	
UnsupportedOperation.InstanceOrdinaryAccountRefuseAttach	In cross-account association, instances under an ordinary account cannot be associated with CCNs created under an Auto-Driving Cloud account.
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.IsNotFinanceAccount	The account of the instance associated with the current CCN is not a Financial Cloud account.
UnsupportedOperation.MultipleVpcNotSupportAttachAccountHasIpv6	
UnsupportedOperation.NotSupportAttachEdgeAndCrossBorderInstance	A CCN instance cannot be associated with an edge instance and a cross-boarder instance at the same time.
UnsupportedOperation.PurchaseLimit	The current account can not use this service in the current region.
UnsupportedOperation.UinNotFound	The account ID does not exist.
UnsupportedOperation.UnableCrossBorder	Cross border is not supported.

UnsupportedOperation.UnableCrossFinance

The current CCN cannot be associated with a Financial Cloud instance.

# ResetAttachCcnInstances

最近更新时间：2023-07-11 17:48:57

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ResetAttachCcnInstances) is used to re-apply for the association operation when the application for cross-account instance association expires.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ResetAttachCcnInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
CcnUin	Yes	String	The UIN (root account) to which the CCN belongs.
Instances.N	Yes	Array of <a href="#">CcnInstance</a>	The list of network instances that re-apply for association.

## 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 Re-sending the association application for an instance

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ResetAttachCcnInstances
&CcnId=ccn-gree2261
&CcnUin=979137
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1zrr9
&Instances.0.InstanceRegion=ap-guangzhou
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# RejectAttachCcnInstances

最近更新时间：2023-07-11 17:48:57

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (RejectAttachCcnInstances) is used to reject association operations when instances are associated across accounts for the CCN owner.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: RejectAttachCcnInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
Instances.N	Yes	Array of <a href="#">CcnInstance</a>	The list of instances whose association is rejected.

## 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 Rejecting an association request

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=RejectAttachCcnInstances
&CcnId=ccn-gree2261
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1zrr9
&Instances.0.InstanceRegion=ap-guangzhou
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.CcnNotAttached	The instance is not associated with a CCN.
UnsupportedOperation.NotPendingCcnInstance	Unsupported operation: the current CCN instance is not in "Applying" status.



# AcceptAttachCcnInstances

最近更新时间：2023-07-11 17:49:00

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (AcceptAttachCcnInstances) is used to associate instances across accounts. Cloud Connect Network (CCN) owners accept and agree to the operations.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AcceptAttachCcnInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
Instances.N	Yes	Array of <a href="#">CcnInstance</a>	List of associated 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 Accepting association request from instances

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AcceptAttachCcnInstances
&CcnId=ccn-gree2261
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1zrr9
&Instances.0.InstanceRegion=ap-guangzhou
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.CcnNotAttached	The instance is not associated with a CCN.
UnsupportedOperation.InvalidInstanceState	Invalid instance status.
UnsupportedOperation.IsNotFinanceAccount	The account of the instance associated with the current CCN is not a Financial Cloud account.
UnsupportedOperation.NotPendingCcnInstance	Unsupported operation: the current CCN instance is not in "Applying" status.
UnsupportedOperation.UnableCrossBorder	Cross border is not supported.
UnsupportedOperation.UnableCrossFinance	The current CCN cannot be associated with a Financial Cloud instance.

# ModifyCcnRegionBandwidthLimitsType

最近更新时间：2023-08-23 14:11:36

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify the bandwidth limit policy of a postpaid CCN instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyCcnRegionBandwidthLimitsType.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	CCN instance ID.
BandwidthLimitType	No	String	CCN bandwidth limit type. INTER_REGION_LIMIT: limit between regions. OUTER_REGION_LIMIT: region egress limit.

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Changing the bandwidth limit type of a pay-as-you-go CCN instance

This example shows you how to modify the bandwidth limit policy of a postpaid CCN instance.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyCcnRegionBandwidthLimitsType
&CcnId=ccn-gree2261
&BandwidthLimitType=OUTER_REGION_LIMIT
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
  }
}
```

## 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
InvalidParameter	A parameter error occurred.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.NotLockedInstanceOperation	This operation is not allowed because the current instance is blocked.
UnsupportedOperation.NotPostpaidCcnOperation	Unsupported operation: the current CCN instance is not billed on a pay-as-you-go basis.

# GetCcnRegionBandwidthLimits

最近更新时间：2023-08-23 14:11:36

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the bandwidth limits of a CCN instance. Monthly-subscribed CCNs only support Inter-region Bandwidth Limits, while the pay-as-you-go CCNs support both the Inter-region Bandwidth Limits and Region Outbound Bandwidth Limits.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: GetCcnRegionBandwidthLimits.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	The CCN instance ID, such as <code>ccn-f4916u0z</code> .
Filters.N	No	Array of <a href="#">Filter</a>	The filter condition. <ul style="list-style-type: none"><li>sregion - String - (Filter condition) Filter by the source region, such as 'ap-guangzhou'.</li><li>dregion - String - (Filter condition) Filter by the destination region, such as 'ap-shanghai-bm'.</li></ul>

SortedBy	No	String	The sorting condition. Valid values: <code>BandwidthLimit</code> and <code>ExpireTime</code> .
Offset	No	Integer	Offset
Limit	No	Integer	Quantity of returned items
OrderBy	No	String	In ascending or descending order. Valid values: 'ASC' and 'DESC'.

### 3. Output Parameters

Parameter Name	Type	Description
CcnBandwidthSet	Array of <a href="#">CcnBandwidthInfo</a>	The outbound bandwidth limits of regions in a CCN instance. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The number of eligible objects. Note: this field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the outbound bandwidth limits of a CCN instance

This example shows you how to query the outbound bandwidth limits of a pay-as-you-go CCN instance, for which the `ExpireTime` and `RenewFlag` parameters can be ignored.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: GetCcnRegionBandwidthLimits
<Common request parameters>

{
  "CcnId": "ccn-1pdchck1"
}
```



## Output Example

```
{
  "Response": {
    "CcnBandwidthSet": [
      {
        "CcnRegionBandwidthLimit": {
          "Region": "ap-guangzhou",
          "IsBm": false,
          "BandwidthLimit": 10
        },
        "CcnId": "ccn-1pdchck1",
        "TagSet": [
          {
            "Key": "test",
            "Value": "123"
          }
        ],
        "RegionFlowControlId": "fcr-krx0mfoi",
        "CreatedTime": "2020-05-20 16:29:44",
        "ExpiredTime": "2020-05-20 16:29:44",
        "MarketId": "abc",
        "RenewFlag": "NOTIFY_AND_MANUAL_RENEW"
      }
    ],
    "TotalCount": 1,
    "RequestId": "639c4bff-ff57-4734-bd72-f543df3b0771"
  }
}
```

## Example2 Querying the inter-region bandwidth limits of a CCN

This example shows you how to query the cross-region outbound bandwidths for monthly-subscribed CCN and obtain two instances with a cross-region bandwidth limit. The `fcr-crrnp6w4` instance has

`NOTIFY_AND_MANUAL_RENEW` (no auto-renewal) for the `RenewFlag` parameter, and the `fcr-lnfsgh4y` instance has `NOTIFY_AND_AUTO_RENEW` (auto-renewal) for the `RenewFlag` parameter.

## Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: GetCcnRegionBandwidthLimits
<Common request parameters>
```

```
{
  "CcnId": "ccn-2gxeenq2"
}
```

### Output Example

```
{
  "Response": {
    "CcnBandwidthSet": [
      {
        "CcnRegionBandwidthLimit": {
          "Region": "ap-guangzhou",
          "IsBm": false,
          "BandwidthLimit": 1,
          "DstRegion": "ap-shanghai",
          "DstIsBm": false
        },
        "CcnId": "ccn-2gxeenq2",
        "TagSet": [
          {
            "Key": "test",
            "Value": "123"
          }
        ],
        "RegionFlowControlId": "fcr-crrnp6w4",
        "CreatedTime": "2020-06-10 14:48:13",
        "ExpiredTime": "2020-07-10 15:47:05",
        "MarketId": "abc",
        "RenewFlag": "NOTIFY_AND_MANUAL_RENEW"
      },
      {
        "CcnRegionBandwidthLimit": {
          "Region": "ap-nanjing",
          "IsBm": false,
          "BandwidthLimit": 1,
          "DstRegion": "ap-chengdu",
          "DstIsBm": false
        },
        "CcnId": "ccn-2gxeenq2",
        "TagSet": [
          {
            "Key": "test",
            "Value": "123"
          }
        ],
        "RegionFlowControlId": "fcr-lnfsgh4y",
```

```

"CreatedTime": "2020-06-10 15:55:29",
"ExpiredTime": "2020-07-10 15:55:29",
"MarketId": "abc",
"RenewFlag": "NOTIFY_AND_AUTO_RENEW"
}
],
"TotalCount": 2,
"RequestId": "39db643d-64ba-456b-91c6-279115682ad2"
}
}
    
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter	A parameter error occurred.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.Malformed	Invalid input parameter format.

InvalidParameterValue.Range	The parameter value is not in the specified range.
UnsupportedOperation	Unsupported operation.

# DescribeCrossBorderCompliance

最近更新时间：2023-08-23 14:11:36

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the compliance review requests created by the user.

A service provider can query all review requests created by any `APPID` under its account. Other users can only query their own review requests.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeCrossBorderCompliance.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ServiceProvider	No	String	(Exact match) Service provider. Valid values: <code>UNICOM</code> .
ComplianceId	No	Integer	(Exact match) ID of compliance review request.
Company	No	String	(Fuzzy match) Company name.
UniformSocialCreditCode	No	String	(Fuzzy match) Unified Social Credit Code.

LegalPerson	No	String	(Fuzzy match) Legal person.
IssuingAuthority	No	String	(Fuzzy match) Issuing authority.
BusinessAddress	No	String	(Fuzzy match) Business address.
PostCode	No	Integer	(Exact match) Zip code.
Manager	No	String	(Fuzzy match) Operator.
ManagerId	No	String	(Exact match) Operator ID card number.
ManagerAddress	No	String	(Fuzzy match) Operator address.
ManagerTelephone	No	String	(Exact match) Operator phone number.
Email	No	String	(Exact match) Email.
ServiceStartDate	No	String	(Exact match) Service start date, such as 2020-07-28 .
ServiceEndDate	No	String	(Exact match) Service end date, such as 2020-07-28 .
State	No	String	(Exact match) Status. Valid values: PENDING , APPROVED , and DENY .
Offset	No	Integer	The offset value
Limit	No	Integer	Quantity of returned items

### 3. Output Parameters

Parameter Name	Type	Description
CrossBorderComplianceSet	Array of <a href="#">CrossBorderCompliance</a>	List of compliance review requests.
TotalCount	Integer	Total number of compliance review requests.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying a compliance review request

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeCrossBorderCompliance
&ServiceProvider=UNICOM
&Company=Guangzhou Tencent Technology Co., Ltd
&UniformSocialCreditCode=91440101327598294H
&LegalPerson=Zhang Ying
&IssuingAuthority=Guangzhou Haizhu District Administration for Market Regulation
&BusinessAddress=Commercial Street F5-1, No. 397-72, Middle Xingang Road, Haizhu
District, Guangzhou City, China
&PostCode=510320
&Manager=Tom
&ManagerId=360732199007108888
&ManagerAddress=No. 8888, Middle Xingang Road, Haizhu District, Guangzhou City, C
hina
&ManagerTelephone=020-81167888
&Email=test@tencent.com
&ServiceStartDate=2020-07-29
&ServiceEndDate=2021-07-29
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "CrossBorderComplianceSet": [
      {
        "ComplianceId": 10013,
        "ServiceProvider": "UNICOM",
        "Company": "Guangzhou Tencent Technology Co., Ltd",
        "UniformSocialCreditCode": "91440101327598294H",
        "LegalPerson": "Zhang Ying",
        "IssuingAuthority": "Guangzhou Haizhu District Administration for Market Regulati
on",
        "BusinessLicense": "https://cross-border-connection-1258344699.cos.ap-guangzhou.m
yqcloud.com/BusinessLicense.png?q-sign-algorithm=sha1&q-ak=AKIDLYWm2QAuUZP1NqFm6
OaEcjaCYkVuMRF&q-sign-time=1596446068%3B1596449728&q-key-time=1596446068%3B159644
9728&q-header-list=&q-url-param-list=&q-signature=d6f3d34ec6cdb4e7a84b29d96ebab0c
eb649e441",
        "BusinessAddress": "Commercial Street F5-1, No. 397-72, Middle Xingang Road, Haiz
hu District, Guangzhou City, China",
```

```
"PostCode": 510320,
"Manager": "Tom",
"ManagerId": "360732199007108888",
"ManagerIdCard": "https://cross-border-connection-1258344699.cos.ap-guangzhou.myqcloud.com/ManagerIdCard.png?q-sign-algorithm=sha1&q-ak=AKIDLYWGm2QAUZP1NqFm6OaEcjaCYkVuMRF&q-sign-time=1596446068%3B1596449728&q-key-time=1596446068%3B1596449728&q-header-list=&q-url-param-list=&q-signature=0eef108d574b332046de78b260c84844159b1fc1",
"ManagerAddress": "No. 8888, Middle Xingang Road, Haizhu District, Guangzhou City, China",
"ManagerTelephone": "020-81167888",
"Email": "test@tencent.com",
"ServiceHandlingForm": "https://cross-border-connection-1258344699.cos.ap-guangzhou.myqcloud.com/ServiceHandlingForm.png?q-sign-algorithm=sha1&q-ak=AKIDLYWGm2QAUZP1NqFm6OaEcjaCYkVuMRF&q-sign-time=1596446068%3B1596449728&q-key-time=1596446068%3B1596449728&q-header-list=&q-url-param-list=&q-signature=8083e838f07cbc5db0d8604962c2148067604311",
"AuthorizationLetter": "https://cross-border-connection-1258344699.cos.ap-guangzhou.myqcloud.com/AuthorizationLetter.png?q-sign-algorithm=sha1&q-ak=AKIDLYWGm2QAUZP1NqFm6OaEcjaCYkVuMRF&q-sign-time=1596446068%3B1596449728&q-key-time=1596446068%3B1596449728&q-header-list=&q-url-param-list=&q-signature=e66ea70810c159dcd2c4fe576194e87ea4e11fbb",
"SafetyCommitment": "https://cross-border-connection-1258344699.cos.ap-guangzhou.myqcloud.com/SafetyCommitment.png?q-sign-algorithm=sha1&q-ak=AKIDLYWGm2QAUZP1NqFm6OaEcjaCYkVuMRF&q-sign-time=1596446068%3B1596449728&q-key-time=1596446068%3B1596449728&q-header-list=&q-url-param-list=&q-signature=991615e1b56f1ab107f6840dd7bfe20230825f55",
"ServiceStartDate": "2020-07-29",
"ServiceEndDate": "2021-07-29",
"State": "PENDING",
"CreatedTime": "2020-08-03 16:59:45"
},
"TotalCount": 1,
"RequestId": "c3e0aa8b-5dce-467d-a63f-242126b3eabf"
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.



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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter	A parameter error occurred.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Range	The parameter value is not in the specified range.

# AuditCrossBorderCompliance

最近更新时间：2023-08-23 14:11:37

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used by the service provider to perform a compliance audit.

- This API is only provided for service providers to audit compliance review requests received. Tencent Cloud will verify the identity of the service provider by the `APPID`.
- The status of the review request can be changed between `APPROVED` and `DENY`.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: AuditCrossBorderCompliance.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ServiceProvider	Yes	String	Service provider. Valid values: <code>UNICOM</code> .
ComplianceId	Yes	Integer	Unique ID of compliance review request.
AuditBehavior	Yes	String	Audit behavior. Valid values: <code>APPROVED</code> and <code>DENY</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Auditing a compliance review request

This API is used by the service provider to perform a compliance audit.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AuditCrossBorderCompliance
&ServiceProvider=UNICOM
&ComplianceId=10006
&AuditBehavior=DENY
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "0de0923a-c53c-43c2-9c25-99b2f3944107"
  }
}
```

## 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
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# ModifyCcnAttachedInstancesAttribute

最近更新时间：2023-08-23 14:11:36

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify CCN-associated instance attributes. Currently, only the `description` can be modified.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: <code>ModifyCcnAttachedInstancesAttribute</code> .
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
CcnId	Yes	String	CCN instance ID in the format of <code>ccn-f4916u0z</code>
Instances.N	Yes	Array of <a href="#">CcnInstance</a>	List of associated network instances

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying the description of a CCN-associated instance

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyCcnAttachedInstancesAttribute
&CcnId=ccn-gree2261
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1zrr9
&Instances.0.InstanceRegion=ap-guangzhou
&Instances.0.Description=test0
&Instances.1.InstanceType=DIRECTCONNECT
&Instances.1.InstanceId=dcg-98qosdc3
&Instances.1.InstanceRegion=ap-guangzhou
&Instances.1.Description=test1
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# Security Group APIs

## ReplaceSecurityGroupPolicies

最近更新时间：2023-08-23 14:11:16

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to batch modify security group policies.

Policies to modify must be in the same direction. `PolicyIndex` must be specified.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ReplaceSecurityGroupPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	The security group instance ID, such as <code>sg-33ocnj9n</code> . This can be obtained through the <code>DescribeSecurityGroups</code> API.



SecurityGroupPolicySet	Yes	<a href="#">SecurityGroupPolicySet</a>	Security group policy set object.
OriginalSecurityGroupPolicySet	No	<a href="#">SecurityGroupPolicySet</a>	(Optional) The old policy set of the security group, which is used for log records.

### 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 Batch modifying security group policies

This example shows you how to batch modify security group policies.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ReplaceSecurityGroupPolicies
<Common request parameters>

{
  "SecurityGroupId": "sg-12345678",
  "SecurityGroupPolicySet": {
    "Ingress": [
      {
        "PolicyIndex": "3",
        "Protocol": "tcp",
        "PolicyDescription": "TestPolicy",
        "Action": "ACCEPT",
        "CidrBlock": "20.0.0.0/16",
        "Port": "22"
      },
      {
        "PolicyIndex": "4",
```

```
"Protocol": "tcp",
"PolicyDescription": "TestPolicy2",
>Action": "DROP",
"CidrBlock": "30.0.0.0/16",
"Port": "22"
},
],
"Version": "20"
}
```

### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameter	A parameter error occurred.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.MemberApprovalApplicationIdMismatch	
InvalidParameterValue.MemberApprovalApplicationNotApproved	
InvalidParameterValue.MemberApprovalApplicationRejected	
InvalidParameterValue.MemberApprovalApplicationStarted	
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.ClbPolicyExceedLimit	Reached the upper limit of security group policies of the load balancer.
UnsupportedOperation.ClbPolicyLimit	Public network CLB does not support this policy.
UnsupportedOperation.DuplicatePolicy	The security group policies are repeated.
UnsupportedOperation.LockedResources	
UnsupportedOperation.VersionMismatch	The specified version number of the security group policy is inconsistent with the latest version.



# DeleteSecurityGroup

最近更新时间：2023-05-17 17:37:53

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteSecurityGroup) is used to delete security groups (SecurityGroup).

- 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. You need to modify the policy first and then delete the security group.
- A security group cannot be recovered after deletion, please proceed with caution.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteSecurityGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	The security group instance ID, such as <code>sg-33ocnj9n</code> . This can be obtained through DescribeSecurityGroups.

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a security group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteSecurityGroup
&Version=2017-03-12
&SecurityGroupId=sg-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](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.MemberApprovalApplicationIdMismatch	
InvalidParameterValue.MemberApprovalApplicationNotApproved	
InvalidParameterValue.MemberApprovalApplicationRejected	
InvalidParameterValue.MemberApprovalApplicationStarted	
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidSecurityGroupID.Malformed	Invalid security group. The security group instance ID is invalid.
InvalidSecurityGroupID.NotFound	Invalid security group. The security group instance ID does not exist.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.LockedResources	

# DescribeSecurityGroupPolicies

最近更新时间：2023-08-23 14:11:17

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeSecurityGroupPolicies) is used to query security group policies.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeSecurityGroupPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	The security group instance ID, such as <code>sg-33ocnj9n</code> . It can be obtained through DescribeSecurityGroups.
Filters.N	No	Array of <a href="#">Filter</a>	Filters <ul style="list-style-type: none"> <li><code>security-group-id</code> - String - Security group ID in the rule.</li> <li><code>ip</code> - String - IP. IPV4 and IPV6 fuzzy matching is supported.</li> <li><code>address-module</code> - String - IP address or address group template ID.</li> <li><code>service-module</code> - String - Protocol port or port group template ID.</li> </ul>



		<ul style="list-style-type: none"> <li><code>protocol-type</code> - String - Protocol supported by the security group policy. Valid values: <code>TCP</code> , <code>UDP</code> , <code>ICMP</code> , <code>ICMPV6</code> , <code>GRE</code> , <code>ALL</code> .</li> <li><code>port</code> - String - Optional - Port. Fuzzy matching is supported. Query all ports when the protocol value is <code>ALL</code> .</li> <li><code>poly</code> - String - Policy type. Valid values: <code>ALL</code> , <code>ACCEPT</code> and <code>DROP</code> .</li> <li><code>direction</code> - String - Direction of the rule. Valid values: <code>ALL</code> , <code>INBOUND</code> and <code>OUTBOUND</code> .</li> <li><code>description</code> - String - Policy description. Fuzzy matching is supported.</li> </ul>
--	--	--

### 3. Output Parameters

Parameter Name	Type	Description
SecurityGroupPolicySet	<a href="#">SecurityGroupPolicySet</a>	Security group policy set.
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 rules

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeSecurityGroupPolicies
<Common request parameters>

{
  "SecurityGroupId": "sg-ohuuioma"
}
```

##### Output Example

```
{
  "Response": {
```

```
"SecurityGroupPolicySet": {
  "Ingress": [
    {
      "PolicyIndex": 0,
      "ServiceTemplate": {
        "ServiceId": "ppm-f5n1f8da",
        "ServiceGroupId": ""
      },
      "AddressTemplate": {
        "AddressGroupId": "ipmg-2uw6ujo6",
        "AddressId": ""
      },
      "Action": "ACCEPT",
      "ModifyTime": "2017-03-12 10:00:00",
      "PolicyDescription": "ModifyPolicies"
    },
    {
      "PolicyIndex": 1,
      "ServiceTemplate": {
        "ServiceId": "ppm-f5n1f8da",
        "ServiceGroupId": ""
      },
      "AddressTemplate": {
        "AddressGroupId": "ipmg-2uw6ujo6",
        "AddressId": ""
      },
      "Action": "ACCEPT",
      "ModifyTime": "2017-03-12 10:00:00",
      "PolicyDescription": "2"
    }
  ],
  "Egress": [
    {
      "PolicyIndex": 0,
      "ServiceTemplate": {
        "ServiceId": "ppm-f5n1f8da",
        "ServiceGroupId": ""
      },
      "AddressTemplate": {
        "AddressGroupId": "ipmg-2uw6ujo6",
        "AddressId": ""
      },
      "Action": "ACCEPT",
      "ModifyTime": "2017-03-12 10:00:00",
      "PolicyDescription": "E1"
    }
  ],
}
```

```
"Version": 60
},
"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.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.

InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# ModifySecurityGroupAttribute

最近更新时间：2023-05-17 17:37:51

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifySecurityGroupAttribute) is used to modify the attributes of a security group (SecurityGroupPolicy).

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifySecurityGroupAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	The security group instance ID, such as <code>sg-33ocnj9n</code> . This can be obtained through DescribeSecurityGroups.
GroupName	No	String	Security group can be named freely, but cannot exceed 60 characters.
GroupDescription	No	String	The remarks for the security group. The maximum length is 100 characters.

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying security group attributes

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifySecurityGroupAttribute
&Version=2017-03-12
&SecurityGroupId=sg-33ocnj9n
&GroupName=TestGroupNewName
&GroupDescription=test-group-desc
&<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](#)
- [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	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.

# CreateSecurityGroup

最近更新时间：2023-08-23 14:11:18

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create a security group (SecurityGroup).

- Note the [maximum number of security groups](#) per project in each region under each account.
- Both the inbound and outbound rules for a newly created security group are "Deny All" by default. You need to call `CreateSecurityGroupPolicies` to set security group rules based on your needs.
- You can bind a tag when creating a security group. The tag list in the response indicates the tags that have been successfully added.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: <code>CreateSecurityGroup</code> .
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: <code>2017-03-12</code> .
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
GroupName	Yes	String	Security group can be named freely, but cannot exceed 60 characters.
GroupDescription	Yes	String	The remarks for the security group. The maximum length is 100



			characters.
ProjectId	No	String	Project ID. The default is 0. You can query it on the project management page of the Qcloud console.
Tags.N	No	Array of <a href="#">Tag</a>	Bound tags, such as [{"Key": "city", "Value": "shanghai"}].

### 3. Output Parameters

Parameter Name	Type	Description
SecurityGroup	<a href="#">SecurityGroup</a>	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 a security group

This example shows you how to create a security group.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateSecurityGroup
<Common request parameters>

{
  "GroupName": "TestGroup",
  "GroupDescription": "test-group-desc",
  "Tags": [
    {
      "Value": "shanghai",
      "Key": "city"
    }
  ]
}
```

## Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "SecurityGroup": {
      "SecurityGroupId": "sg-3g7ftkp3",
      "SecurityGroupName": "TestGroup",
      "SecurityGroupDesc": "test-group-desc",
      "ProjectId": "0",
      "TagSet": [
        {
          "Key": "city",
          "Value": "shanghai"
        }
      ]
    }
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter	A parameter error occurred.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.

LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# CreateSecurityGroupPolicies

最近更新时间：2023-07-11 17:48:33

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create security group policies ( `SecurityGroupPolicy` ).

For parameters of `SecurityGroupPolicySet` ,

- `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` policies,
  - `Protocol`: Allows `TCP`, `UDP`, `ICMP`, `ICMPV6`, `GRE` and `ALL`.
  - `CidrBlock`: For the classic network, the `CidrBlock` can contain private IPs of Tencent Cloud resources that are not under your account. It does not mean that you can access these devices. The network isolation policies between tenants take priority over the private network policies in security groups.
  - `Ipv6CidrBlock`: For the classic network, `Ipv6CidrBlock` can contain private IPv6 addresses of Tencent Cloud resources that are not under your account. It does not mean that you can 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 to create policies.
  - `Port`: A single port ("80") or a port range ("8000-8010"). This parameter is only available when `Protocol` is `TCP` or `UDP`.
  - `Action`: `ACCEPT` or `DROP`.
  - `CidrBlock` , `Ipv6CidrBlock` , `SecurityGroupId` , and `AddressTemplate` are mutually exclusive. `Protocol` + `Port` and `ServiceTemplate` are mutually exclusive. `Ipv6CidrBlock` and `ICMP` are mutually exclusive; to use them, enter `ICMPV6` .
  - You can only create policies in one direction in each request. To specify the `PolicyIndex` parameter, use the same index number in policies. If you want to insert a rule before the first rule, enter 0; if you want to add a rule after the last rule, leave it empty.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateSecurityGroupPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	The security group instance ID, such as <code>sg-33ocnj9n</code> . This can be obtained through DescribeSecurityGroups.
SecurityGroupPolicySet	Yes	<a href="#">SecurityGroupPolicySet</a>	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 Adds inbound policies to a security group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateSecurityGroupPolicies
&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Version=21
&SecurityGroupPolicySet.Ingress.0.PolicyIndex=1
&SecurityGroupPolicySet.Ingress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Ingress.0.AddressTemplate.AddressId=ipm-2uw6ujo6
&SecurityGroupPolicySet.Ingress.0.Action=accept
&SecurityGroupPolicySet.Ingress.0.PolicyDescription=TestPolicy
&SecurityGroupPolicySet.Ingress.1.PolicyIndex=1
&SecurityGroupPolicySet.Ingress.1.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Ingress.1.AddressTemplate.AddressId=ipm-2uw6ujo6
&SecurityGroupPolicySet.Ingress.1.Action=accept
&SecurityGroupPolicySet.Ingress.1.PolicyDescription=Test
&<Common request parameter>
```

### 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](#)
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### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameter	A parameter error occurred.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.MemberApprovalApplicationIdMismatch	
InvalidParameterValue.MemberApprovalApplicationNotApproved	
InvalidParameterValue.MemberApprovalApplicationRejected	
InvalidParameterValue.MemberApprovalApplicationStarted	
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
LimitExceeded.SecurityGroupPolicySet	The number of security group rules exceeds the upper limit.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation.ClbPolicyExceedLimit	Reached the upper limit of security group policies of the load balancer.



UnsupportedOperation.ClbPolicyLimit	Public network CLB does not support this policy.
UnsupportedOperation.DuplicatePolicy	The security group policies are repeated.
UnsupportedOperation.LockedResources	
UnsupportedOperation.VersionMismatch	The specified version number of the security group policy is inconsistent with the latest version.

# DescribeSecurityGroups

最近更新时间：2023-08-23 14:11:17

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeSecurityGroups) is used to query security groups.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeSecurityGroups.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupIds.N	No	Array of String	Security group ID, such as <code>sg-33ocnj9n</code> . Each request can contain up to 100 instances at a time. <code>SecurityGroupIds</code> and <code>Filters</code> cannot be specified at the same time.
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <code>SecurityGroupIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li>security-group-id - String - (Filter condition) The security group ID.</li><li>project-id - Integer - (Filter condition) The project ID.</li><li>security-group-name - String - (Filter condition) The security group name.</li></ul>

			<ul style="list-style-type: none"> <li>tag-key - String - Required: no - (Filter condition) Filters by tag key. For more information, see Example 2.</li> <li>tag:tag-key - String - Required: no - (Filter condition) Filters by tag key pair. For this parameter, tag-key will be replaced with a specific tag key. For more information, see Example 3.</li> </ul>
Offset	No	String	Offset. Default value: 0.
Limit	No	String	Number of returned results. Default value: 20. Maximum value: 100.
OrderField	No	String	Sorting field. Values: CreatedTime , UpdateTime Note: This field does not have default value.
OrderDirection	No	String	Sorting method Order methods. Ascending: ASC , Descending: DESC . Default: ASC

### 3. Output Parameters

Parameter Name	Type	Description
SecurityGroupSet	Array of <a href="#">SecurityGroup</a>	Security group object. Note: this field may return null , indicating that no valid values can be obtained.
TotalCount	Integer	The number of instances meeting the filter condition.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying security groups

This example shows you how to query security groups.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeSecurityGroups
```

```
<Common request parameters>
```

```
{
  "Limit": "1",
  "Filters": [
    {
      "Values": [
        "TestGroup"
      ],
      "Name": "security-group-name"
    },
    {
      "Values": [
        "0"
      ],
      "Name": "project-id"
    }
  ]
}
```

### Output Example

```
{
  "Response": {
    "SecurityGroupSet": [
      {
        "SecurityGroupId": "sg-05bb4upy",
        "SecurityGroupName": "TestGroup",
        "SecurityGroupDesc": "test-group-desc",
        "ProjectId": "0",
        "IsDefault": true,
        "CreatedTime": "2017-04-18 21:02:30"
      }
    ],
    "TotalCount": 1,
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

### Example2 Querying security groups bound with the specific tag

This example shows you how to query by `tag:tag-key` .

### Input Example

```

POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeSecurityGroups
<Common request parameters>
    
```

```

{
  "Filters": [
    {
      "Values": [
        "TEST"
      ],
      "Name": "tag:Version"
    }
  ]
}
    
```

### Output Example

```

{
  "Response": {
    "SecurityGroupSet": [
      {
        "SecurityGroupId": "sg-2got2lcz",
        "SecurityGroupName": "test",
        "SecurityGroupDesc": "All ports are opened to the public and private networks. This may present security risks.",
        "ProjectId": "0",
        "IsDefault": false,
        "CreatedTime": "2019-07-23 12:32:24",
        "TagSet": [
          {
            "Key": "u200dTag key",
            "Value": "Tag value"
          },
          {
            "Key": "Version",
            "Value": "TEST"
          },
          {
            "Key": "Version",
            "Value": "DEV"
          }
        ]
      }
    ]
  }
}
    
```

```

],
"TotalCount": 1,
"RequestId": "85cda7d1-6608-4eca-8d02-19937c12dd84"
}
}

```

## 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.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.

InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DeleteSecurityGroupPolicies

最近更新时间：2023-05-17 17:37:53

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteSecurityGroupPolicies) is used to delete security group policies (SecurityGroupPolicy).

- SecurityGroupPolicySet.Version is used to specify the version of the security group you are operating. If the specified Version number differs from the latest version of the current security group, a failure will be returned. If Version is not specified, the policy of the specified PolicyIndex will be deleted directly.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteSecurityGroupPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	The security group instance ID, such as <code>sg-33ocnj9n</code> . This can be obtained through DescribeSecurityGroups.
SecurityGroupPolicySet	Yes	<a href="#">SecurityGroupPolicySet</a>	The policy set of the security group. One



			request can only delete one or more policies in one direction. Both PolicyIndex-matching deletion and security group policy-matching deletion methods are supported. Each request can use only one matching method.
--	--	--	---

### 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 inbound policies of security groups based on the rule

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteSecurityGroupPolicies
&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Version=37
&SecurityGroupPolicySet.Ingress.0.ServiceTemplate.ServiceGroupId=ppmg-ei8hfd9a
&SecurityGroupPolicySet.Ingress.0.CidrBlock=10.9.89.9/25
&SecurityGroupPolicySet.Ingress.0.Action=accept
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

#### Example2 Deleting outbound policies of security groups based on the rule

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteSecurityGroupPolicies
&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Version=38
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceGroupId=ppmg-ei8hfd9a
&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 inbound policies of security groups based on the index

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteSecurityGroupPolicies
&Version=2017-03-12
&SecurityGroupId=sg-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 outbound policies of security groups based on the index

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteSecurityGroupPolicies
&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Version=40
&SecurityGroupPolicySet.Egress.0.PolicyIndex=0
&SecurityGroupPolicySet.Egress.1.PolicyIndex=1
&<Common request parameters>
```

## Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```

## 5. Developer Resources

### SDK

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### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.MemberApprovalApplicationIdMismatch	
InvalidParameterValue.MemberApprovalApplicationNotApproved	
InvalidParameterValue.MemberApprovalApplicationRejected	
InvalidParameterValue.MemberApprovalApplicationStarted	
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.LockedResources	
UnsupportedOperation.VersionMismatch	The specified version number of the security group policy is inconsistent with the latest version.

# ModifySecurityGroupPolicies

最近更新时间：2023-08-23 14:11:17

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to reset the `Egress` and `Ingress` rules (SecurityGroupPolicy) of a security group.

- This API does not support custom indexes `PolicyIndex`.
- For `SecurityGroupPolicySet` parameter,
  - If `SecurityGroupPolicySet.Version` is set to `0`, all policies will be cleared, and `Egress` and `Ingress` will be ignored.
  - If `SecurityGroupPolicySet.Version` is not set to `0`, add `Egress` and `Ingress` policies:
    - `Protocol`: TCP, UDP, ICMP, ICMPV6, GRE, or ALL.
    - `CidrBlock`: a CIDR block in the correct format. In the classic network, even if the CIDR block specified in `CidrBlock` contains the Tencent Cloud private IPs that are not using for CVMs under your Tencent Cloud account, it does not mean this policy allows you to access those resources. The network isolation policies between tenants take priority over the private network policies in security groups.
    - `Ipv6CidrBlock`: an IPv6 CIDR block in the correct format. In the classic network, even if the CIDR block specified in `Ipv6CidrBlock` contains the Tencent Cloud private IPv6 addresses that are not using for CVMs under your Tencent Cloud account, it does not mean this policy allows you to access those resources. 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 a security group to be modified, or the ID of another 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.
    - `Action`: only allows ACCEPT or DROP.
    - `CidrBlock`, `Ipv6CidrBlock`, `SecurityGroupId`, and `AddressTemplate` are mutually exclusive. `Protocol` + `Port` and `ServiceTemplate` are mutually exclusive.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

### Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifySecurityGroupPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	The security group instance ID, such as <code>sg-33ocnj9n</code> . This can be obtained through DescribeSecurityGroups.
SecurityGroupPolicySet	Yes	<a href="#">SecurityGroupPolicySet</a>	The security group policy set. SecurityGroupPolicySet object must specify new egress and ingress policies at the same time. SecurityGroupPolicy object does not support custom index (PolicyIndex).
SortPolicys	No	Boolean	Whether the security group rule is sorted. Default value: False. If it is set to <code>True</code> , security group rules will be strictly sorted according to the sequence specified in the <code>SecurityGroupPolicySet</code> parameter. Manual entry may cause omission, so we recommend sorting security group rules in the console.

### 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 a security group

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifySecurityGroupPolicies
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceGroupId=ppmg-f5n1f8da
&SecurityGroupPolicySet.Egress.0.AddressTemplate.AddressId=ipm-2uw6ujo6
&SecurityGroupPolicySet.Egress.0.AddressTemplate.AddressGroupId=ipmg-2uw6ujo6
&SecurityGroupPolicySet.Egress.0.Action=accept
&SecurityGroupPolicySet.Egress.0.PolicyDescription=TestPolicy
&SecurityGroupPolicySet.Ingress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Ingress.0.ServiceTemplate.ServiceGroupId=ppmg-f5n1f8da
&SecurityGroupPolicySet.Ingress.0.AddressTemplate.AddressId=ipm-2uw6ujo6
&SecurityGroupPolicySet.Ingress.0.AddressTemplate.AddressGroupId=ipmg-2uw6ujo6
&SecurityGroupPolicySet.Ingress.0.Action=accept
&SecurityGroupPolicySet.Ingress.0.PolicyDescription=Test
&<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
InternalError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.MemberApprovalApplicationIdMismatch	
InvalidParameterValue.MemberApprovalApplicationNotApproved	
InvalidParameterValue.MemberApprovalApplicationRejected	
InvalidParameterValue.MemberApprovalApplicationStarted	
InvalidParameterValue.Range	The parameter value is not in the



	specified range.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.DuplicatePolicy	The security group policies are repeated.
UnsupportedOperation.LockedResources	

# ReplaceSecurityGroupPolicy

最近更新时间：2023-07-11 17:48:32

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ReplaceSecurityGroupPolicy) is used to replace a single security group policy (SecurityGroupPolicy). Only one policy in a single direction can be replaced in each request, and the PolicyIndex parameter must be specified.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ReplaceSecurityGroupPolicy.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	The security group instance ID, such as <code>sg-33ocnj9n</code> . This can be obtained through DescribeSecurityGroups.
SecurityGroupPolicySet	Yes	<a href="#">SecurityGroupPolicySet</a>	Security group policy set object.

OriginalSecurityGroupPolicySet	No	<a href="#">SecurityGroupPolicySet</a>	(Optional) The old policy set of the security group, which is used for log records.
--------------------------------	----	--	---

### 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 a single routing policy of a security group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ReplaceSecurityGroupPolicy
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Version=20
&SecurityGroupPolicySet.Egress.0.PolicyIndex=2
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceGroupId=ppmg-f5n1f8da
&SecurityGroupPolicySet.Egress.0.AddressTemplate.AddressId=ipm-2uw6ujo6
&SecurityGroupPolicySet.Egress.0.AddressTemplate.AddressGroupId=ipmg-2uw6ujo6
&SecurityGroupPolicySet.Ingress.0.Action=accept
&SecurityGroupPolicySet.Ingress.0.PolicyDescription=TestPolicy
&SecurityGroupPolicySet.Ingress.0.PolicyIndex=2
&SecurityGroupPolicySet.Ingress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Ingress.0.ServiceTemplate.ServiceGroupId=ppmg-f5n1f8da
&SecurityGroupPolicySet.Ingress.0.AddressTemplate.AddressId=ipm-2uw6ujo6
&SecurityGroupPolicySet.Ingress.0.AddressTemplate.AddressGroupId=ipmg-2uw6ujo6
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
```

```
}  
}
```

## 5. Developer Resources

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### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameter	A parameter error occurred.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.

InvalidParameterValue.MemberApprovalApplicationIdMismatch	
InvalidParameterValue.MemberApprovalApplicationNotApproved	
InvalidParameterValue.MemberApprovalApplicationRejected	
InvalidParameterValue.MemberApprovalApplicationStarted	
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation.ClbPolicyExceedLimit	Reached the upper limit of security group policies of the load balancer.
UnsupportedOperation.ClbPolicyLimit	Public network CLB does not support this policy.
UnsupportedOperation.DuplicatePolicy	The security group policies are repeated.
UnsupportedOperation.LockedResources	
UnsupportedOperation.VersionMismatch	The specified version number of the security group policy is inconsistent with the latest version.

# DescribeSecurityGroupAssociationStatistics

最近更新时间：2023-07-11 17:48:33

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeSecurityGroupAssociationStatistics) is used to query statistics on the instances associated with a security group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeSecurityGroupAssociationStatistics.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupIds.N	Yes	Array of String	The Security instance ID, such as <code>sg-33ocnj9n</code> . It can be obtained through DescribeSecurityGroups.

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

SecurityGroupAssociationStatisticsSet	Array of <a href="#">SecurityGroupAssociationStatistics</a>	Statistics on the instances associated with a 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 the instances associated with a security group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeSecurityGroupAssociationStatistics
&Version=2017-03-12
&SecurityGroupIds.0=sg-ohuuioma
&SecurityGroupIds.1=sg-2quou3gv
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "SecurityGroupAssociationStatisticsSet": [
      {
        "SecurityGroupId": "sg-2quou3gv",
        "CDB": 0,
        "CVM": 0,
        "ENI": 0,
        "SG": 0,
        "CLB": 0,
        "TotalCount": 0
      },
      {
        "SecurityGroupId": "sg-05bb4upy",
        "CDB": 0,
        "CVM": 1,
        "ENI": 1,
        "SG": 2,
        "CLB": 1,
        "TotalCount": 3
      }
    ]
  }
}
```

```
}  
]  
}  
}
```

## 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
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.



# DescribeSecurityGroupReferences

最近更新时间：2023-07-11 17:48:32

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeSecurityGroupReferences) is used to query referred security groups.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeSecurityGroupReferences.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupIds.N	Yes	Array of String	A set of security group instance IDs, e.g. ['sg-12345678']

## 3. Output Parameters

Parameter Name	Type	Description
ReferredSecurityGroupSet	Array of	Referred security groups.

	<a href="#">ReferredSecurityGroup</a>	
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying the referenced security group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeSecurityGroupReferences
&SecurityGroupIds.0=sg-12345678
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "ReferredSecurityGroupSet": [
      {
        "SecurityGroupId": "sg-12345678",
        "ReferredSecurityGroupIds": [
          "sg-23456789",
          "sg-13572468"
        ]
      }
    ],
    "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.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)

- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# CreateSecurityGroupWithPolicies

最近更新时间：2023-08-23 14:11:17

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create u200da security group, and add security group policies.

- For the the upper limit of security groups per project in each region under each account, [see here](#)
- u200dFor u200dnewly u200dcreated security groups, u200dthe inbound and outbound policies are set to `Deny` `All` by default. You need to call [CreateSecurityGroupPolicies](#) to change it.

Description:

- `Version` : The version number of a security group policy. It automatically increments by 1 every time you update the security policy, so to prevent the expiration of the updated policies. If this field is left empty, any conflicts will be ignored.
- `Protocol` : Values can be `TCP` , `UDP` , `ICMP` , `ICMPV6` , `GRE` , and `ALL` .
- `CidrBlock` : Enter a CIDR block in the correct format. In the classic network, even if the CIDR block specified in u200d `CidrBlock` contains the Tencent Cloud private IPs not used for CVMs under your Tencent Cloud account, it does not mean this policy allows you to access those resources. The network isolation policies between tenants take priority over the private network policies in security groups.
- `Ipv6CidrBlock` : Enter an IPv6 CIDR block in the correct format. In the classic network, even if the CIDR block specified in `Ipv6CidrBlock` contains the Tencent Cloud private IPv6 addresses not used for CVMs under your Tencent Cloud account, it does not mean this policy allows you to access those resources. 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 a security group to be modified, or the ID of another 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` : Enter a single port number (such as `80` ), or a port range (such as `8000-8010` ). `Port` is only applicable when `Protocol` is `TCP` or `UDP` . If `Protocol` is not `TCP` or `UDP` , `Protocol` and `Port` cannot be both specified.
- `Action` : Values can be `ACCEPT` or `DROP` .

- `CidrBlock` , `Ipv6CidrBlock` , `SecurityGroupId` , and `AddressTemplate` are exclusive u200dto one another. “Protocol + Port” and `ServiceTemplate` are mutually exclusive.
- Only policies in one direction can be created in each request. If you need to specify the `PolicyIndex` parameter, the indexes of policies must be consistent.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateSecurityGroupWithPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
GroupName	Yes	String	Security group can be named freely, but cannot exceed 60 characters.
GroupDescription	Yes	String	The remarks for the security group. The maximum length is 100 characters.
ProjectId	No	String	Project ID. Default value: 0. You can query it on the <a href="#">project management page</a> of the Tencent Cloud console.
SecurityGroupPolicySet	No	<a href="#">SecurityGroupPolicySet</a>	Security group policy set.

## 3. Output Parameters

Parameter Name	Type	Description
SecurityGroup	<a href="#">SecurityGroup</a>	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 a security group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateSecurityGroupWithPolicies
&Version=2017-03-12
&GroupName=TestGroup
&GroupDescription=test-group-desc
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "SecurityGroup": {
      "SecurityGroupId": "sg-12345678",
      "SecurityGroupName": "TestGroup",
      "SecurityGroupDesc": "test-group-desc",
      "ProjectId": "0"
    }
  }
}
```

### Example2 Creating security groups and the rules

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateSecurityGroupWithPolicies
&Version=2017-03-12
&GroupName=TestGroup
&GroupDescription=test-group-desc
&SecurityGroupPolicySet.Egress.0.PolicyIndex=0
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
```

```
&SecurityGroupPolicySet.Egress.0.AddressTemplate.AddressId=ipm-2uw6ujo6
&SecurityGroupPolicySet.Egress.0.Action=accept
&SecurityGroupPolicySet.Egress.0.PolicyDescription=TestPolicy
&SecurityGroupPolicySet.Egress.1.PolicyIndex=1
&SecurityGroupPolicySet.Egress.1.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Egress.1.AddressTemplate.AddressId=ipm-2uw6ujo6
&SecurityGroupPolicySet.Egress.1.Action=accept
&SecurityGroupPolicySet.Egress.1.PolicyDescription=Test
&<Common request parameters>
```

## Output Example

```
{
  "Response": {
    "SecurityGroup": {
      "SecurityGroupId": "sg-12345678",
      "SecurityGroupName": "TestGroup",
      "SecurityGroupDesc": "test-group-desc",
      "ProjectId": "0"
    }
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.MemberApprovalApplicationIdMismatch	
InvalidParameterValue.MemberApprovalApplicationNotApproved	
InvalidParameterValue.MemberApprovalApplicationRejected	
InvalidParameterValue.MemberApprovalApplicationStarted	
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation.LockedResources	



# CloneSecurityGroup

最近更新时间：2023-08-23 14:11:18

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create a security group with the same rule configurations as an existing security group. The cloning only copies the security group and its rules, but not the security group tags.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CloneSecurityGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupId	Yes	String	Security group instance ID, such as <code>esg-33ocnj9n</code> , which can be obtained through the <a href="#">DescribeSecurityGroups</a> API.
GroupName	No	String	The name of security group clone. You can enter any name within 60 characters. If this parameter is left empty, the security group clone will use the name of the source security group.
GroupDescription	No	String	Description of the security group clone. You can enter up to 100 characters. If this parameter is left empty, the security group clone will use the description of the source security group.

ProjectId	No	String	Project ID. Default value: 0. You can query it on the <a href="#">project management page</a> of the Tencent Cloud console.
RemoteRegion	No	String	The region of the source security group for a cross-region clone. For example, to clone the security group in Guangzhou to Shanghai, set it to <code>ap-guangzhou</code> .

### 3. Output Parameters

Parameter Name	Type	Description
SecurityGroup	<a href="#">SecurityGroup</a>	Security group object Note: this field may return <code>null</code> , 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 Cloning a security group

This example shows you how to clone a security group.

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CloneSecurityGroup
&SecurityGroupId=sg-12345678
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "SecurityGroup": {
      "SecurityGroupId": "sg-12341234",
      "SecurityGroupName": "TestGroup",
      "SecurityGroupDesc": "test-group-desc",
      "ProjectId": "0",
      "CreatedTime": "2018-01-13 19:26:33"
    }
  }
}
```

```
}  
}  
}
```

### Example2 This example shows you how to clone a security group and specify the name and description of the newly created one.

This example shows you how to clone a security group and specify the name and description of the newly created one.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CloneSecurityGroup  
&SecurityGroupId=sg-12345678  
&GroupName=test  
&GroupDescription=test  
&<Common request parameters>
```

#### Output Example

```
{  
  "Response": {  
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",  
    "SecurityGroup": {  
      "SecurityGroupId": "sg-12341256",  
      "SecurityGroupName": "test",  
      "SecurityGroupDesc": "test",  
      "ProjectId": "0",  
      "CreatedTime": "2018-01-13 19:26:33"  
    }  
  }  
}
```

### Example3 Cloning a security group and specify the project ID

This example shows you how to clone a security group and specify the project ID.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CloneSecurityGroup  
&SecurityGroupId=sg-12345678  
&ProjectId=1001  
&<Common request parameters>
```

## Output Example

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "SecurityGroup": {
      "SecurityGroupId": "sg-12341278",
      "SecurityGroupName": "TestGroup",
      "SecurityGroupDesc": "test-group-desc",
      "ProjectId": "1001",
      "CreatedTime": "2018-01-13 19:26:33"
    }
  }
}
```

## 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

InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.

# Network ACL APIs

## ModifyNetworkAclEntries

最近更新时间：2023-08-23 14:11:23

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify (add or delete) the inbound and outbound rules of a network ACL. In

`NetworkAclEntrySet` parameters,

- Passing in the new inbound/outbound rules will reset the original rules.
- Passing in the inbound rules will only reset the original inbound rules and not affect the original outbound rules, and vice versa.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyNetworkAclEntries.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as

			<code>acl-12345678</code> .
NetworkAclEntrySet	No	<a href="#">NetworkAclEntrySet</a>	Network ACL rule set. <code>NetworkAclEntrySet</code> and <code>NetworkAclQuintupleSet</code> cannot be entered at the same time.
NetworkAclQuintupleSet	No	<a href="#">NetworkAclQuintupleEntries</a>	Network ACL quintuple rule set. <code>NetworkAclEntrySet</code> and <code>NetworkAclQuintupleSet</code> cannot be entered at the same 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 Adding inbound and outbound rules to a network ACL

This example shows you how to modify network ACL rules by only passing in the rule you want to retain and discarding the ones you want to delete. For example, the `acl-12345678` has two inbound rules:

- Rule 1: TCP 192.168.1.0/24 80 Accept
- Rule 2: TCP 192.168.1.0/24 443 Accept

If you want to delete the inbound rule 2, pass in parameters shown in the example.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyNetworkAclEntries
<Common request parameters>

{
```

```

"NetworkAclId": "acl-12345678",
"NetworkAclEntrySet": {
  "Ingress": [
    {
      "Protocol": "TCP",
      "Description": "test",
      "ModifyTime": "xx",
      "Action": "Accept",
      "CidrBlock": "192.168.1.0/24",
      "Port": "80"
    }
  ],
  "Egress": [
    {
      "Protocol": "TCP",
      "Description": "test",
      "ModifyTime": "xx",
      "Action": "Accept",
      "CidrBlock": "192.168.1.0/24",
      "Port": "80"
    }
  ]
}

```

## Output Example

```

{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
  }
}

```

## Example2 Adding only inbound rules to a network ACL

### Input Example

```

POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyNetworkAclEntries
<Common request parameters>

{
  "NetworkAclId": "acl-12345678",

```



```
"NetworkAclEntrySet": {
  "Ingress": [
    {
      "Protocol": "TCP",
      "Description": "test",
      "ModifyTime": "xx",
      "Action": "Accept",
      "CidrBlock": "192.168.1.0/24",
      "Port": "442"
    },
    {
      "Protocol": "TCP",
      "Description": "test",
      "ModifyTime": "xx",
      "Action": "Accept",
      "CidrBlock": "192.168.1.0/24",
      "Port": "80"
    }
  ]
}
```

### Output Example

```
{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
  }
}
```

### Example3 Deleting inbound rules of a network ACL

This example shows you how to modify network ACL rules by only passing in the rule you want to retain and discarding the ones you want to delete. For example, the `acl-12345678` has two inbound rules:

- Rule 1: TCP 192.168.1.0/24 80 Accept
- Rule 2: TCP 192.168.1.0/24 443 Accept

If you want to delete the inbound rule 2, pass in parameters shown in the example.

### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
```

```
Content-Type: application/json
X-TC-Action: ModifyNetworkAclEntries
<Common request parameters>

{
  "NetworkAclId": "acl-12345678",
  "NetworkAclEntrySet": {
    "Ingress": [
      {
        "Protocol": "TCP",
        "Description": "test",
        "ModifyTime": "xx",
        "Action": "Accept",
        "CidrBlock": "192.168.1.0/24",
        "Port": "80"
      }
    ]
  }
}
```

### 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++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.AclTypeMismatch	
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.

# ModifyNetworkAclAttribute

最近更新时间：2023-08-23 14:11:24

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify the attributes of a network ACL.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyNetworkAclAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as <code>acl-12345678</code> .
NetworkAclName	Yes	String	Network ACL name, which can contain up to 60 bytes.

## 3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Changing the name of a network ACL

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyNetworkAclAttribute
&NetworkAclId=acl-12345678
&NetworkAclName=test modify
&<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++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.

# DisassociateNetworkAclSubnets

最近更新时间：2023-08-23 14:11:24

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to disassociate a network ACL from subnets in a VPC 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	<a href="#">Common Params</a> . The value used for this API: DisassociateNetworkAclSubnets.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as <code>acl-12345678</code> .
SubnetIds.N	Yes	Array of String	Array of subnet instance IDs, such as [subnet-12345678].

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Disassociating a network ACL from a subnet

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DisassociateNetworkAclSubnets
&NetworkAclId=acl-12345678
&SubnetIds.0=subnet-12345678
&<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 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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

# DescribeNetworkAcls

最近更新时间：2023-07-11 17:49:52

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query a list of network ACLs.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNetworkAcls.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclIds.N	No	Array of String	Array of network ACL instance IDs, such as [acl-12345678]. Up to 100 instances are allowed for each request. This parameter does not support specifying <code>NetworkAclIds</code> and <code>Filters</code> at the same time.

Parameter Name	Required	Type	Description
Filters.N	No	Array of Filter	Filter condition. <code>NetworkAclIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"> <li><code>vpc-id</code> - String - (Filter condition) VPC instance ID, such as vpc-12345678.</li> <li><code>network-acl-id</code> - String - (Filter condition) Network ACL instance ID, such as acl-12345678.</li> <li><code>network-acl-name</code> - String - (Filter condition) Network ACL instance name.</li> </ul>
Offset	No	Integer	Offset. Default: 0.
Limit	No	Integer	Returned quantity. Default: 20. Value range: 1-100.

### 3. Output Parameters

Parameter Name	Type	Description
NetworkAclSet	Array of NetworkAcl	List of instance details.
TotalCount	Integer	Number of eligible instances.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Example 1. Querying the network ACL list

This example shows you how to query the list of network ACLs.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeNetworkAcls
<Common request parameters>
```

```
{}
```

## Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "NetworkAclSet": [
      {
        "TagSet": [],
        "NetworkAclId": "acl-kmxuky6",
        "VpcId": "vpc-9it989fn",
        "NetworkAclType": "TRIPLE",
        "IngressEntries": [
          {
            "Protocol": "all",
            "Description": "Test 1",
            "Ipv6CidrBlock": "::/0",
            "ModifyTime": "2020-01-21 14:26:22",
            "Action": "Drop",
            "CidrBlock": "0.0.0.0/0",
            "Port": "80"
          }
        ],
        "SubnetSet": [
          {
            "NetworkAclId": "acl-kmxuky6",
            "RouteTableId": "rtb-we123456",
            "VpcId": "vpc-rt123456",
            "EnableBroadcast": true,
            "Zone": "ap-guangzhou",
            "Ipv6CidrBlock": "::/0",
            "AvailableIpAddressCount": 1,
            "IsRemoteVpcSnat": true,
            "SubnetName": "Subnet 1",
            "TotalIpAddressCount": 1,
            "IsCdcSubnet": 0,
            "CdcId": "cluster-gbo27yc4",
            "TagSet": [
              {
                "Value": "og",
                "Key": "ck"
              }
            ],
            "CreatedTime": "2020-01-20 14:26:22",
```

```
"SubnetId": "subnet-qmqye6ew",
"CidrBlock": "10.0.0.0/24",
"IsDefault": true
},
],
"NetworkAclName": "Test_001",
"CreatedTime": "2020-01-20 14:26:22",
"EgressEntries": [
{
"Protocol": "All",
"Description": "222",
"Ipv6CidrBlock": "::/0",
"ModifyTime": "2020-01-20 14:26:22",
>Action": "Drop",
"CidrBlock": "10.0.0.0/24",
"Port": "80"
}
]
},
],
"RequestId": "cccb2665-5d02-4d87-b9e7-757bb06e5beb"
}
}
```

## Example2 Example 2: Querying the network ACL list by conditions

This example shows you how to query the specified network ACLs.

### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeNetworkAcls
<Common request parameters>

{
"NetworkAclIds": [
"acl-12345678"
],
"Limit": 20,
"Offset": 0
}
```

### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "NetworkAclSet": [
      {
        "TagSet": [],
        "NetworkAclId": "",
        "VpcId": "vpc-kj123456",
        "NetworkAclType": "TRIPLE",
        "IngressEntries": [
          {
            "Protocol": "all",
            "Description": "Test 1",
            "Ipv6CidrBlock": "::/0",
            "ModifyTime": "2020-01-21 14:26:22",
            "Action": "Drop",
            "CidrBlock": "0.0.0.0/0",
            "Port": "80"
          }
        ],
        "SubnetSet": [
          {
            "NetworkAclId": "acl-kmxukyv6",
            "RouteTableId": "rtb-we123456",
            "VpcId": "vpc-kj123456",
            "EnableBroadcast": true,
            "Zone": "ap-guangzhou",
            "Ipv6CidrBlock": "::/0",
            "AvailableIpAddressCount": 1,
            "IsCdcSubnet": 0,
            "CdcId": "cluster-gbo27yc4",
            "IsRemoteVpcSnat": true,
            "SubnetName": "Test 01",
            "TotalIpAddressCount": 1,
            "TagSet": [
              {
                "Value": "yt",
                "Key": "kj"
              }
            ],
            "CreatedTime": "2020-01-21 14:26:22",
            "SubnetId": "subnet-qmqye6ew",
            "CidrBlock": "10.0.0.0/24",
            "IsDefault": true
          }
        ],
      }
    ]
  }
}
```

```
"NetworkAclName": "Test 33",
"CreatedTime": "2020-01-21 14:26:22",
"EgressEntries": [
{
"Protocol": "All",
"Description": "Test",
"Ipv6CidrBlock": "::/0",
"ModifyTime": "2020-01-21 14:26:22",
"Action": "Drop",
"CidrBlock": "10.0.0.0/24",
"Port": "80"
}
],
"RequestId": "cccb2665-5d02-4d87-b9e7-757bb06e5beb"
}
```

## 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
InternalServerError.ModuleError	Internal module error
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.ActionNotFound	The port does not exist.



# DeleteNetworkAcl

最近更新时间：2023-08-23 14:11:24

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete a network ACL.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteNetworkAcl.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as <code>acl-12345678</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a network ACL

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteNetworkAcl
&NetworkAclId=acl-12345678
&<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 Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AppIdMismatch	The resource is not under the specified AppId.
UnsupportedOperation.RecordNotExists	The record does not exist.

# CreateNetworkAcl

最近更新时间：2023-08-23 14:11:25

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create a [network ACL](#).

- The inbound and outbound rules for a new network ACL are "Deny All" by default. You need to call `ModifyNetworkAclEntries` to set rules for the new network ACL as needed.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateNetworkAcl.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID, which can be obtained from the <code>VpcId</code> field in the response of the <a href="#">DescribeVpcs</a> API.
NetworkAclName	Yes	String	Network ACL name, which can contain up to 60 bytes.
NetworkAclType	No	String	Network ACL type. Valid values: <code>TRIPLE</code> and <code>QUINTUPLE</code> .
Tags.N	No	Array of	Bound tags, such as [{"Key": "city", "Value": "shanghai"}].

		Tag	
--	--	-----	--

### 3. Output Parameters

Parameter Name	Type	Description
NetworkAcl	<a href="#">NetworkAcl</a>	Network ACL instance
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a network ACL

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateNetworkAcl
<Common request parameters>

{
  "VpcId": "vpc-12345678",
  "NetworkAclName": "test"
}
```

##### Output Example

```
{
  "Response": {
    "NetworkAcl": {
      "NetworkAclId": "acl-12345678",
      "VpcId": "vpc-12345678",
      "NetworkAclName": "test",
      "CreatedTime": "2020-01-01 10:00:00",
      "SubnetSet": [],
      "IngressEntries": [],
      "EgressEntries": []
    }
  }
}
```

```
"NetworkAclType": "TRIPLE"  
},  
"RequestId": "5cf1a813-d4f8-4e0c-8f90-c155a84a3ea1"  
}  
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.

InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
ResourceNotFound	The resource does not exist.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.

UnsupportedOperation.TagSystemReservedTagKey

The specified tag key is reserved for system usage.



# AssociateNetworkAclSubnets

最近更新时间：2023-08-23 14:11:25

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to associate a network ACL with subnets in a VPC 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	<a href="#">Common Params</a> . The value used for this API: AssociateNetworkAclSubnets.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as <code>acl-12345678</code> .
SubnetIds.N	Yes	Array of String	Array of subnet instance IDs, such as [subnet-12345678]

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Associating a network ACL with subnets

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=AssociateNetworkAclSubnets
&NetworkAclId=acl-12345678
&SubnetIds.0=subnet-12345678
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

# ModifyNetworkAclQuintupleEntries

最近更新时间：2023-08-23 14:11:23

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify the in/outbound rules of the network ACL quintuple. In the

`NetworkAclQuintupleEntrySet` parameters, `NetworkAclQuintupleEntryId` is required for `NetworkAclQuintupleEntry`.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: <code>ModifyNetworkAclQuintupleEntries</code> .
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as <code>acl-12345678</code> .
NetworkAclQuintupleSet	Yes	<a href="#">NetworkAclQuintupleEntries</a>	Network ACL quintuple rule 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 Adjusting the quintuple priority

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyNetworkAclQuintupleEntries
<Common request parameters>

{
  "NetworkAclId": "acl-12345678",
  "NetworkAclQuintupleSet": {
    "Ingress": [
      {
        "Priority": "3"
      }
    ]
  }
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
  }
}
```

### 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
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.

# DescribeNetworkAclQuintupleEntries

最近更新时间：2023-08-23 14:11:24

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the list of in/outbound network ACL quintuple entries.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNetworkAclQuintupleEntries.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as <code>acl-12345678</code> .
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Returned quantity. Default: 20. Value range: 1-100.
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. <code>HaVipIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li><code>protocol</code> - String - Such as <code>TCP</code></li><li><code>description</code> - String - Description</li></ul>

			<ul style="list-style-type: none"> <li><code>destination-cidr</code> - String - Destination CIDR block, such as <code>192.168.0.0/24</code></li> <li><code>source-cidr</code> - String - Source CIDR block, such as <code>192.168.0.0/24</code></li> <li><code>action</code> - String - Values: <code>ACCEPT</code> , <code>DROP</code></li> <li><code>network-acl-quintuple-entry-id</code> - String - Unique ID of the quintuple, such as <code>acli45-ahnu4rv5</code></li> <li><code>network-acl-direction</code> - String - Direction of the policy. Values: <code>INGRESS</code> or <code>EGRESS</code> .</li> </ul>
--	--	--	---

### 3. Output Parameters

Parameter Name	Type	Description
NetworkAclQuintupleSet	Array of <a href="#">NetworkAclQuintupleEntry</a>	The list of the network ACL quintuple entries
TotalCount	Integer	Number of eligible instances.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Example 1. Querying the network ACL quintuple entries by filter

##### Input Example

```

POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeNetworkAclQuintupleEntries
<Common request parameters>

{
  "NetworkAclId": "acl-12345678",
  "Limit": "20",
  "Offset": "0"
}
    
```



## Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "NetworkAclQuintupleSet": [
      {
        "Protocol": "TCP",
        "Description": "test",
        "SourcePort": "80",
        "SourceCidr": "192.168.0.0/24",
        "DestinationPort": "80",
        "DestinationCidr": "192.168.0.0/24",
        "Action": "ACCEPT",
        "CreateTime": "2019-11-11 22:16:17",
        "NetworkAclQuintupleEntryId": "acli45-q1phngkz",
        "NetworkAclDirection": "EGRESS"
      }
    ],
    "RequestId": "cccb2665-5d02-4d87-b9e7-757bb06e5beb"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.AclTypeMismatch	
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.ActionNotFound	The port does not exist.

# DeleteNetworkAclQuintupleEntries

最近更新时间：2023-08-23 14:11:24

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete specified in/outbound rules of the network ACL quintuple. In the

`NetworkAclQuintupleEntrySet` parameters, `NetworkAclQuintupleEntryId` is required for `NetworkAclQuintupleEntry`.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteNetworkAclQuintupleEntries.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as <code>acl-12345678</code> .
NetworkAclQuintupleSet	Yes	<a href="#">NetworkAclQuintupleEntries</a>	Network ACL quintuple rule 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 Deleting the specified ITEM of the network ACL quintuple

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteNetworkAclQuintupleEntries
<Common request parameters>

{
  "NetworkAclId": "acl-12345678",
  "NetworkAclQuintupleSet": {
    "Ingress": [
      {}
    ]
  }
}
```

##### 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++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AppIdMismatch	The resource is not under the specified AppId.

# CreateNetworkAclQuintupleEntries

最近更新时间：2023-08-23 14:11:24

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to add one or more in/outbound rules of the network ACL quintuple.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateNetworkAclQuintupleEntries.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetworkAclId	Yes	String	Network ACL instance ID, such as <code>acl-12345678</code> .
NetworkAclQuintupleSet	Yes	<a href="#">NetworkAclQuintupleEntries</a>	Network ACL quintuple rule 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 Adjusting the quintuple priority

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateNetworkAclQuintupleEntries
<Common request parameters>

{
  "NetworkAclId": "acl-12345678",
  "NetworkAclQuintupleSet": {
    "Ingress": [
      {
        "Protocol": "TCP"
      }
    ]
  }
}
```

#### 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
InvalidParameter.AclTypeMismatch	
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.



# Network Parameter Template-Related APIs

## CreateAddressTemplate

最近更新时间：2023-08-23 14:11:22

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create an IP address template.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateAddressTemplate.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressTemplateName	Yes	String	IP address template name.
Addresses.N	No	Array of String	The address information can be presented by the IP, CIDR block or IP address range. Either Addresses or AddressesExtra is required.
AddressesExtra.N	No	Array of <a href="#">AddressInfo</a>	The address information can contain remarks and be presented by the IP, CIDR block or IP address range.

Either Addresses or AddressesExtra is required.

### 3. Output Parameters

Parameter Name	Type	Description
AddressTemplate	<a href="#">AddressTemplate</a>	The template object of the IP address.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating an IP address template

This example shows you how to create a IP address template.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateAddressTemplate
&AddressTemplateName=TestName
&Addresses.0=192.168.1.0/24
&Addresses.1=192.168.2.0/24
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "AddressTemplate": {
      "AddressTemplateName": "TestName",
      "AddressTemplateId": "ipm-ht1gkq3a",
      "AddressSet": [
        "192.168.1.0/24",
        "192.168.2.0/24"
      ],
      "CreatedTime": "2018-04-03 21:38:01",
      "AddressExtraSet": [
        {
          "Description": "xx",
          "Address": "xx"
        }
      ]
    }
  }
}
```

```
]
},
"RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.

InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.

# CreateAddressTemplateGroup

最近更新时间：2023-08-23 14:11:22

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create an IP address template group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateAddressTemplateGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressTemplateName	Yes	String	Name of the IP address template group
AddressTemplateIds.N	Yes	Array of String	IP address template instance ID, such as <code>ipm-mdunqeb6</code> .

## 3. Output Parameters

--	--	--

Parameter Name	Type	Description
AddressTemplateGroup	<a href="#">AddressTemplateGroup</a>	Group object of the IP address template.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating an IP address template group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateAddressTemplateGroup
&AddressTemplateName=TestName
&AddressTemplateIds.0=ipm-88t6207k
&AddressTemplateIds.1=ipm-mdunqeb6
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "AddressTemplateGroup": {
      "AddressTemplateName": "TestName",
      "AddressTemplateGroupId": "ipmg-dih8xdbq",
      "AddressTemplateIdSet": [
        "ipm-88t6207k",
        "ipm-mdunqeb6"
      ],
      "AddressTemplateSet": [
        {
          "To": "10.1.1.2/22",
          "From": "10.1.1.3/22"
        }
      ],
      "CreatedTime": "2018-04-03 21:51:02"
    },
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# CreateServiceTemplate

最近更新时间：2023-08-23 14:11:22

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (CreateServiceTemplate) is used to create a protocol port template.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateServiceTemplate.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ServiceTemplateName	Yes	String	Template name of the protocol port
Services.N	No	Array of String	Supported ports include single port, multiple ports, consecutive ports and all ports. Supported protocols include TCP, UDP, ICMP and GRE. Either Services or ServicesExtra is required.
ServicesExtra.N	No	Array of <a href="#">ServicesInfo</a>	You can add remarks. Supported ports include single port, multiple ports, consecutive ports and all ports.



Supported protocols include TCP, UDP, ICMP and GRE. Either Services or ServicesExtra is required.

### 3. Output Parameters

Parameter Name	Type	Description
ServiceTemplate	<a href="#">ServiceTemplate</a>	Protocol port template object.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a protocol port template

This example shows you how to create a protocol port template.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateServiceTemplate
&ServiceTemplateName=TestName
&Services.0=TCP:8080
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "ServiceTemplate": {
      "ServiceTemplateName": "TestName",
      "ServiceTemplateId": "ppm-xxxxxxx",
      "ServiceSet": [
        "tcp: 8080"
      ],
      "CreatedTime": "2018-04-03 21:19:31",
      "ServiceExtraSet": [
        {
          "Description": "test",
          "Service": "tcp:8080"
        }
      ]
    }
  }
}
```

```
]
},
"RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
}
}
```

## 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
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.

LimitExceeded

Quota limit is reached.

# CreateServiceTemplateGroup

最近更新时间：2023-05-17 17:38:03

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (CreateServiceTemplateGroup) is used to create a protocol port template group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateServiceTemplateGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ServiceTemplateName	Yes	String	Group name of the protocol port template.
ServiceTemplateIds.N	Yes	Array of String	Instance ID of the protocol port template, such as ppm-4dw6agho .

## 3. Output Parameters

--	--	--

Parameter Name	Type	Description
ServiceTemplateGroup	<a href="#">ServiceTemplateGroup</a>	Group object of the protocol port template.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating a protocol port template group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateServiceTemplateGroup
&Version=2017-03-12
&ServiceTemplateGroupName=TestName
&ServiceTemplateIds.0=ppm-529nwwj8
&ServiceTemplateIds.1=ppm-4dw6agho
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "ServiceTemplateGroup": {
      "ServiceTemplateGroupName": "TestName",
      "ServiceTemplateGroupId": "ppmg-2klmrefu",
      "ServiceTemplateIdSet": [
        "ppm-529nwwj8",
        "ppm-4dw6agho"
      ],
      "CreatedTime": "2018-04-03 22:05:32"
    },
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# DeleteAddressTemplate

最近更新时间：2023-05-17 17:38:03

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteAddressTemplate) is used to delete an IP address template.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteAddressTemplate.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressTemplateId	Yes	String	The IP address template instance ID, such as <code>ipm-09o5m8kc</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

locating a problem.

## 4. Example

### Example1 Deleting an IP address template

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteAddressTemplate
&Version=2017-03-12
&AddressTemplateId=ipm-mdunqeb6
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# DeleteAddressTemplateGroup

最近更新时间：2023-05-17 17:38:03

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteAddressTemplateGroup) is used to delete an IP address template group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteAddressTemplateGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressTemplateGroupId	Yes	String	The IP address template group instance ID, such as <code>ipmg-90cex8mq</code> .

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Deleting an IP address template group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteAddressTemplateGroup
&Version=2017-03-12
&AddressTemplateGroupId=ipmg-2uw6ujo6
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# DeleteServiceTemplate

最近更新时间：2023-05-17 17:38:03

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteServiceTemplate) is used to delete a protocol port template.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteServiceTemplate.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ServiceTemplateId	Yes	String	Protocol port template instance ID, such as ppm-e6dy460g .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a protocol port template

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteServiceTemplate
&Version=2017-03-12
&ServiceTemplateId=ppm-529nwwj8
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# DeleteServiceTemplateGroup

最近更新时间：2023-05-17 17:38:02

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DeleteServiceTemplateGroup) is used to delete a protocol port template group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteServiceTemplateGroup.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ServiceTemplateGroupId	Yes	String	The protocol port template group instance ID, such as <code>ppmg-n17uxvve</code> .

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------



RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Deleting a protocol port template group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteServiceTemplateGroup
&Version=2017-03-12
&ServiceTemplateGroupId=ppmg-ei8hfd9a
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# DescribeAddressTemplateGroups

最近更新时间：2023-07-11 17:48:36

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeAddressTemplateGroups) is used to query an IP address template group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeAddressTemplateGroups.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <ul style="list-style-type: none"><li>address-template-group-name - String - (Filter condition) IP address template group name.</li><li>address-template-group-id - String - (Filter condition) IP address template group instance ID, such as <code>ipmg-mdunqeb6</code>.</li></ul>
Offset	No	String	Offset. The default value is 0.
Limit	No	String	Number of values to be returned. The default value is 20. Maximum is 100.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of instances meeting the filter condition.
AddressTemplateGroupSet	Array of <a href="#">AddressTemplateGroup</a>	IP address template.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Query the list of IP address templates

This example shows you how to query the list of IP address templates.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeAddressTemplateGroups
&Filters.0.Name=address-template-group-name
&Filters.0.Values.0=TestName
&Filters.1.Name=address-template-group-id
&Filters.1.Values.0=ipmg-mdungeb6
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "xx",
    "AddressTemplateGroupSet": [
      {
        "AddressTemplateName": "test",
        "AddressTemplateGroupId": "ipmg-xxxxxxx",
        "AddressTemplateIdSet": [
          "ipm-xxxxxxx",
          "ipm-yyyyyyy"
        ],
        "AddressTemplateSet": [
```

```

{
  "AddressTemplateId": "ipm-xxxxxxx",
  "AddressTemplateName": "xxxxxxx"
},
{
  "AddressTemplateId": "ipm-yyyyyyy",
  "AddressTemplateName": "yyyyyyy"
}
],
"CreatedTime": "2022-12-06 20:00:00"
}
]
}
}
    
```

## 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

InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.

# DescribeAddressTemplates

最近更新时间：2023-08-23 14:11:22

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeAddressTemplates) is used to query an IP address template.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeAddressTemplates.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">Filter</a>	Filters <ul style="list-style-type: none"> <li>address-template-name - IP address template name.</li> <li>address-template-id - IP address template ID, such as <code>ipm-mdunqeb6</code>.</li> <li>address-ip - IP address.</li> </ul>
Offset	No	String	Offset. The default value is 0.
Limit	No	String	Number of values to be returned. The default value is 20. Maximum is 100.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of instances meeting the filter condition.
AddressTemplateSet	Array of <a href="#">AddressTemplate</a>	IP address template.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying an IP address template

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeAddressTemplates
&Filters.0.Name=address-template-name
&Filters.0.Values.0=TestName
&Filters.1.Name=address-template-id
&Filters.1.Values.0=ipm-mdunqeb6
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "AddressTemplateSet": [
      {
        "AddressTemplateName": "TestName",
        "AddressTemplateId": "ipm-mdunqeb6",
        "AddressSet": [
          "192.168.0.0/16",
          "192.128.8.8/17"
        ],
        "AddressExtraSet": [
          {
            "Description": "desc",
            "Address": "192.168.0.0/16"
          }
        ]
      }
    ]
  }
}
```



```
{
  "Description": "desc",
  "Address": "192.128.8.8/17"
},
{
  "CreatedTime": "2017-12-31 10:06:05"
},
{
  "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
}
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.

InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
UnsupportedOperation	Unsupported operation.

# DescribeServiceTemplateGroups

最近更新时间：2023-05-17 17:38:02

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeServiceTemplateGroups) is used to query a protocol port template group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeServiceTemplateGroups.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <ul style="list-style-type: none"><li>service-template-group-name - String - (Filter condition) Protocol port template group name.</li><li>service-template-group-id - String - (Filter condition) Protocol port template group instance ID, such as <code>ppmg-e6dy460g</code>.</li></ul>
Offset	No	String	Offset. The default value is 0.
Limit	No	String	Number of values to be returned. The default value is 20. Maximum is 100.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of instances meeting the filter condition.
ServiceTemplateGroupSet	Array of <a href="#">ServiceTemplateGroup</a>	Protocol port template group.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying a protocol port template group

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeServiceTemplateGroups
&Version=2017-03-12
&Filters.0.Name=service-template-group-name
&Filters.0.Values.0=TestName
&Limit=2
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ServiceTemplateGroupSet": [
      {
        "ServiceTemplateName": "TestName",
        "ServiceTemplateGroupId": "ppmg-2klmrefu",
        "ServiceTemplateIdSet": [
          "ppm-529nwwj8"
        ],
        "ServiceTemplateSet": [
          {
            "ServiceTemplateId": "ppm-529nwwj8",
            "ServiceTemplateName": "test"
          }
        ],
      }
    ],
  }
}
```

```
"CreatedTime": "2018-04-03 22:05:32"
}
],
"RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
}
}
```

## 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
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.

# DescribeServiceTemplates

最近更新时间：2023-08-23 14:11:21

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeServiceTemplates) is used to query protocol port templates.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeServiceTemplates.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">Filter</a>	Filters <ul style="list-style-type: none"><li>service-template-name - Protocol port template name.</li><li>service-template-id - Protocol port template ID, such as ppm-e6dy460g .</li><li>service-port-Protocol port.</li></ul>
Offset	No	String	Offset. The default value is 0.
Limit	No	String	Number of values to be returned. The default value is 20. Maximum is 100.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of instances meeting the filter condition.
ServiceTemplateSet	Array of <a href="#">ServiceTemplate</a>	Protocol port template object.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying a protocol port template

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeServiceTemplates
&Filters.0.Name=service-template-name
&Filters.0.Values.0=TestName
&Limit=2
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "TotalCount": 8,
    "ServiceTemplateSet": [
      {
        "ServiceTemplateName": "TestName",
        "ServiceTemplateId": "ppm-bu8cir16",
        "ServiceSet": [
          "tcp:8080",
          "udp:99"
        ],
        "CreatedTime": "2018-04-03 21:19:31"
      },
      {
        "ServiceTemplateName": "TestName",
        "ServiceTemplateId": "ppm-2jju0z3u",
        "ServiceSet": [
```

```
"tcp:8080",
"udp:99"
],
"CreateTime": "2018-04-03 21:03:12"
}
],
"RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
}
}
```

## 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 C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.



# ModifyAddressTemplateAttribute

最近更新时间：2023-08-23 14:11:21

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyAddressTemplateAttribute) is used to modify an IP address template.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyAddressTemplateAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressTemplateId	Yes	String	IP address template instance ID, such as <code>ipm-mdunqeb6</code> .
AddressTemplateName	No	String	IP address template name.
Addresses.N	No	Array of String	Address information, including IP, CIDR and IP address range.
AddressesExtra.N	No	Array of <a href="#">AddressInfo</a>	Address information with remarks, including the IP, CIDR block or IP address range.

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Modifying an IP address template

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyAddressTemplateAttribute
&AddressTemplateId=ipm-mdungeb6
&AddressTemplateName=TestName
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

### 5. Developer Resources

#### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# ModifyAddressTemplateGroupAttribute

最近更新时间：2023-05-17 17:38:01

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyAddressTemplateGroupAttribute) is used to modify an IP address template group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyAddressTemplateGroupAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
AddressTemplateGroupId	Yes	String	IP address template group instance ID, such as <code>ipmg-2uw6ujo6</code> .
AddressTemplateName	No	String	IP address template group name.
AddressTemplateIds.N	No	Array of String	IP address template instance ID, such as <code>ipm-mdunqeb6</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying an IP address template group

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyAddressTemplateGroupAttribute
&Version=2017-03-12
&AddressTemplateGroupId=ipmg-2uw6ujo6
&AddressTemplateName=TestName
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# ModifyServiceTemplateAttribute

最近更新时间：2023-08-23 14:11:21

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyServiceTemplateAttribute) is used to modify a protocol port template.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyServiceTemplateAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ServiceTemplateId	Yes	String	Protocol port template instance ID, such as ppm-529nwwj8 .
ServiceTemplateName	No	String	Protocol port template name.
Services.N	No	Array of String	It supports single port, multiple ports, consecutive ports and all ports. Supported protocols include TCP, UDP, ICMP, and GRE.
ServicesExtra.N	No	Array of	Protocol port information with remarks. Supported

		ServicesInfo	ports include single port, multiple ports, consecutive ports and other ports. Supported protocols include TCP, UDP, ICMP, and GRE.
--	--	--------------	--

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Modifying a protocol port template

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyServiceTemplateAttribute
&ServiceTemplateId=ppm-529nwwj8
&ServiceTemplateName=TestName
&<common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

### 5. Developer Resources

#### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)



- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# ModifyServiceTemplateGroupAttribute

最近更新时间：2023-05-19 17:19:01

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyServiceTemplateGroupAttribute) is used to modify a protocol port template group.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyServiceTemplateGroupAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
ServiceTemplateGroupId	Yes	String	The protocol port template group instance ID, such as <code>ppmg-ei8hfd9a</code> .
ServiceTemplateName	No	String	Protocol port template group name.
ServiceTemplateIds.N	No	Array of String	Instance ID of the protocol port template, such as <code>ppm-4dw6agho</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying a protocol port template group

This example shows you how to modify a protocol port template group.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyServiceTemplateGroupAttribute
&ServiceTemplateGroupId=ppmg-ei8hfd9a
&ServiceTemplateName=TestName
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.

# Network Detection-Related APIs

## ModifyNetDetect

最近更新时间：2023-08-23 14:11:22

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (ModifyNetDetect) is used to modify network detection parameters.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyNetDetect.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetDetectId	Yes	String	The ID of a network detection instance, such as <code>netd-12345678</code> .
NetDetectName	No	String	The name of a network detection instance. The maximum length is 60 characters.
DetectDestinationIp.N	No	Array of String	The array of detection destination IPv4 addresses, which contains at most two IP addresses.

NextHopType	No	String	Type of the next hop. Valid values: <code>VPN</code> : VPN gateway; <code>DIRECTCONNECT</code> : Direct connect gateway; <code>PEERCONNECTION</code> : Peering connection; <code>NAT</code> : NAT gateway; <code>NORMAL_CVM</code> : CVM instance; <code>CCN</code> : CCN instance; <code>NONEXTHOP</code> : No next hop.
NextHopDestination	No	String	ID of the next-hop gateway. If NextHopType is set to VPN, the value of this parameter is the VPN gateway ID, such as <code>vpngw-12345678</code> . <code>NextHopType = DIRECTCONNECT</code> : Direct connect gateway ID, such as <code>dcg-12345678</code> . <code>NextHopType = PEERCONNECTION</code> : Peering connection ID, such as <code>pcx-12345678</code> . <code>NextHopType = NAT</code> : NAT gateway ID, such as <code>nat-12345678</code> . If NextHopType is set to NORMAL_CVM, the value of this parameter is the IPv4 address of the CVM, such as 10.0.0.12. <code>NextHopType = CCN</code> : CCN instance ID, such as <code>ccn-12345678</code> . <code>NextHopType = NONEXTHOP</code> : No next hop.
NetDetectDescription	No	String	Network detection 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 the parameters of a network probe

This example shows you u200dhow to modify the parameters of a network probe.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyNetDetect
<Common request parameters>

{
  "NetDetectId": "netd-12345678",
  "NetDetectName": "test",
  "NextHopType": "NORMAL_CVM",
  "NextHopDestination": "10.0.0.4",
  "DetectDestinationIp": [
    "10.0.0.3",
    "10.0.0.2"
  ]
}
```

### Output Example

```
{
  "Response": {
    "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](#)
- [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.NetDetectTimeOut	Network probe timed out. Please retry later.
InvalidParameter	A parameter error occurred.
InvalidParameter.NextHopMismatch	The next hop type does not match with the next hop gateway.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.NetDetectNotFoundIp	Unable to find the matched next hop in the CCN route table for the destination IP.
InvalidParameterValue.NetDetectSameIp	The detection destination IP address is the same as that of another network detection instance under the same subnet in the same VPC.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.EcmpWithUserRoute	Form an ECMP with the user's custom routes.



# DescribeNetDetects

最近更新时间：2023-08-23 14:11:22

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeNetDetects) is used to query the list of network detection instances.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNetDetects.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetDetectIds.N	No	Array of String	The array of network probe IDs, such as [ <code>netd-12345678</code> ].
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <code>NetDetectIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"><li><code>vpc-id</code> - String - (Filter condition) The VPC instance ID, such as vpc-12345678.</li><li><code>net-detect-id</code> - String - (Filter condition) The network detection instance ID, such as netd-12345678.</li><li><code>subnet-id</code> - String - (Filter condition) The subnet instance ID, such as subnet-12345678.</li></ul>

			<ul style="list-style-type: none"> <li>net-detect-name - String - (Filter condition) The network detection name.</li> </ul>
Offset	No	Integer	The offset. Default: 0.
Limit	No	Integer	The number of returned values. Default: 20. Maximum: 100.

### 3. Output Parameters

Parameter Name	Type	Description
NetDetectSet	Array of <a href="#">NetDetect</a>	The array of network detection objects that meet requirements. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The number of network detection objects that meet requirements. 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 all network probes

This example shows you how to query all network probes.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNetDetects
&<common request parameters>
```

#### Output Example

```
{
  "Response": {
    "NetDetectSet": [
      {
        "VpcId": "vpc-12345678",
        "VpcName": "vpc-test",
```

```

"SubnetId": "subnet-12345678",
"SubnetName": "subnet-test",
"NetDetectId": "netd-12345678",
"NetDetectName": "test",
"DetectDestinationIp": [
"10.0.0.2",
"10.0.0.3"
],
"DetectSourceIp": [
"10.0.0.5",
"10.0.0.6"
],
"NextHopType": "NORMAL_CVM",
"NextHopDestination": "10.0.0.4",
"NextHopName": "",
"NetDetectDescription": "",
"CreateTime": "0000-00-00 00:00:00"
},
{
"VpcId": "vpc-12345678",
"VpcName": "vpc-test",
"SubnetId": "subnet-12345678",
"SubnetName": "subnet-test",
"NetDetectId": "netd-12345679",
"NetDetectName": "test",
"DetectDestinationIp": [
"10.0.1.2",
"10.0.1.3"
],
"DetectSourceIp": [
"10.0.1.5",
"10.0.1.6"
],
"NextHopType": "NORMAL_CVM",
"NextHopDestination": "10.0.0.4",
"NextHopName": "",
"NetDetectDescription": "",
"CreateTime": "0000-00-00 00:00:00"
}
],
"TotalCount": 2,
"RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
}
}
    
```

## Example2 Querying network probes by IDs

This example shows you how to query network probes by IDs.

### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNetDetects
&NetDetectIds.0=netd-12345678
&<common request parameters>
```

### Output Example

```
{
  "Response": {
    "NetDetectSet": [
      {
        "VpcId": "vpc-12345678",
        "VpcName": "vpc-test",
        "SubnetId": "subnet-12345678",
        "SubnetName": "subnet-test",
        "NetDetectId": "netd-12345678",
        "NetDetectName": "test",
        "DetectDestinationIp": [
          "10.0.0.2",
          "10.0.0.3"
        ],
        "DetectSourceIp": [
          "10.0.0.5",
          "10.0.0.6"
        ],
        "NextHopType": "NORMAL_CVM",
        "NextHopDestination": "10.0.0.4",
        "NextHopName": "",
        "NetDetectDescription": "",
        "CreateTime": "0000-00-00 00:00:00"
      }
    ],
    "TotalCount": 1,
    "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
  }
}
```

## 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
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

# DescribeNetDetectStates

最近更新时间：2023-08-23 14:11:23

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API (DescribeNetDetectStates) is used to query the list of network detection verification results.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeNetDetectStates.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetDetectIds.N	No	Array of String	The array of network probe IDs, such as [ <code>netd-12345678</code> ].
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <code>NetDetectIds</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"> <li><code>net-detect-id</code> - String - The network probe ID, such as <code>netd-12345678</code> .</li> </ul>
Offset	No	Integer	The offset. Default: 0.
Limit	No	Integer	The number of returned values. Default: 20. Maximum: 100.

### 3. Output Parameters

Parameter Name	Type	Description
NetDetectStateSet	Array of <a href="#">NetDetectState</a>	The array of network detection verification results that meet requirements. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	The number of network detection verification results that meet requirements. 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 network probe verification results by IDs

This example shows you how to query the list of network probe verification results by IDs.

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNetDetectStates
&NetDetectIds.0=netd-12345678
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "NetDetectStateSet": [
      {
        "NetDetectId": "netd-12345678",
        "NetDetectIpStateSet": [
          {
            "DetectDestinationIp": "10.0.0.2",
            "State": 0,
            "Delay": 0,

```

```

"PacketLossRate": 0
},
{
  "DetectDestinationIp": "10.0.0.3",
  "State": 0,
  "Delay": 0,
  "PacketLossRate": 0
}
]
}
],
"TotalCount": 1,
"RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
}
}

```

## 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.NetDetectTimeOut	Network probe timed out. Please retry later.
InvalidParameter	A parameter error occurred.
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.ResourceNotFound	This resource is not found.
ResourceNotFound	The resource does not exist.

# DeleteNetDetect

最近更新时间：2023-08-23 14:11:23

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete a network probe.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteNetDetect.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
NetDetectId	Yes	String	ID of a network probe, such as <code>netd-12345678</code> .

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting a network probe by ID

This example shows you how to delete a network probe by ID.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteNetDetect
&NetDetectId=netd-12345678
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.RecordNotExists	The record does not exist.

# CreateNetDetect

最近更新时间：2023-08-23 14:11:23

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create a network probe.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateNetDetect.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	The ID of a VPC instance, such as <code>vpc-12345678</code> .
SubnetId	Yes	String	The ID of a subnet instance, such as <code>subnet-12345678</code> .
NetDetectName	Yes	String	The name of a network detection instance. The maximum length is 60 characters.
DetectDestinationIp.N	Yes	Array of String	The array of detection destination IPv4 addresses, which contains at most two IP addresses.
NextHopType	No	String	Type of the next hop. Valid values:

			<p><code>VPN</code> : VPN gateway;</p> <p><code>DIRECTCONNECT</code> : Direct connect gateway;</p> <p><code>PEERCONNECTION</code> : Peering connection;</p> <p><code>NAT</code> : NAT gateway;</p> <p><code>NORMAL_CVM</code> : CVM instance;</p> <p><code>CCN</code> : CCN instance;</p> <p><code>NONEXTHOP</code> : No next hop.</p>
NextHopDestination	No	String	<p>ID of the next-hop gateway.</p> <p>If NextHopType is set to VPN, the value of this parameter is the VPN gateway ID, such as vpngw-12345678.</p> <p><code>NextHopType</code> = <code>DIRECTCONNECT</code> : Direct connect gateway ID, such as <code>dcg-12345678</code> .</p> <p><code>NextHopType</code> = <code>PEERCONNECTION</code> : Peering connection ID, such as <code>pcx-12345678</code> .</p> <p><code>NextHopType</code> = <code>NAT</code> : NAT gateway ID, such as <code>nat-12345678</code> .</p> <p>If NextHopType is set to <code>NORMAL_CVM</code>, the value of this parameter is the IPv4 address of the CVM, such as 10.0.0.12.</p> <p><code>NextHopType</code> = <code>CCN</code> : CCN instance ID, such as <code>ccn-12345678</code> .</p> <p><code>NextHopType</code> = <code>NONEXTHOP</code> : No next hop.</p>
NetDetectDescription	No	String	Network detection description.

### 3. Output Parameters

Parameter Name	Type	Description
NetDetect	<a href="#">NetDetect</a>	The network detection (NetDetect) object.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a network probe

This example shows you how to create a network probe.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateNetDetect
<Common request parameters>

{
  "VpcId": "vpc-12345678",
  "NextHopDestination": "10.0.0.4",
  "NextHopType": "NORMAL_CVM",
  "NetDetectName": "test",
  "DetectDestinationIp": [
    "10.0.0.3",
    "10.0.0.2"
  ],
  "SubnetId": "subnet-12345678"
}
```

## Output Example

```
{
  "Response": {
    "NetDetect": {
      "VpcId": "vpc-12345678",
      "VpcName": "vpc-test",
      "SubnetId": "subnet-12345678",
      "SubnetName": "subnet-test",
      "NetDetectId": "netd-12345678",
      "NetDetectName": "test",
      "DetectDestinationIp": [
        "10.0.0.2",
        "10.0.0.3"
      ],
      "DetectSourceIp": [
        "10.0.0.5",
        "10.0.0.6"
      ],
      "NextHopType": "NORMAL_CVM",
      "NextHopDestination": "10.0.0.4",
      "NextHopName": "",
      "NetDetectDescription": "",
      "CreateTime": "0000-00-00 00:00:00"
    },
    "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.

- [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.NetDetectTimeOut	Network probe timed out. Please retry later.
InvalidParameter	A parameter error occurred.
InvalidParameter.NextHopMismatch	The next hop type does not match with the next hop gateway.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.NetDetectInVpc	The probe destination IP and network probe are in the same VPC.



InvalidParameterValue.NetDetectNotFoundIp	Unable to find the matched next hop in the CCN route table for the destination IP.
InvalidParameterValue.NetDetectSameIp	The detection destination IP address is the same as that of another network detection instance under the same subnet in the same VPC.
InvalidParameterValue.ResourceNotFound	This resource is not found.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceInsufficient	Insufficient resources.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.ConflictWithDockerRoute	The IP range overlaps with that of the TKE container under the VPC.
UnsupportedOperation.EcmpWithUserRoute	Form an ECMP with the user's custom routes.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

# CheckNetDetectState

最近更新时间：2023-07-11 17:48:38

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to verify the network detection status.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CheckNetDetectState.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
DetectDestinationIp.N	Yes	Array of String	The array of detection destination IPv4 addresses, which contains at most two IP addresses.
NextHopType	Yes	String	The type of the next hop. Currently supported types are: VPN: VPN gateway; DIRECTCONNECT: direct connect gateway; PEERCONNECTION: peering connection; NAT: NAT gateway; NORMAL_CVM: normal CVM.
NextHopDestination	Yes	String	The next-hop destination gateway. The value is related to

			<p>NextHopType.</p> <p>If NextHopType is set to VPN, the value of this parameter is the VPN gateway ID, such as vpngw-12345678.</p> <p>If NextHopType is set to DIRECTCONNECT, the value of this parameter is the direct connect gateway ID, such as dcg-12345678.</p> <p>If NextHopType is set to PEERCONNECTION, the value of this parameter is the peering connection ID, such as pcx-12345678.</p> <p>If NextHopType is set to NAT, the value of this parameter is the NAT gateway ID, such as nat-12345678.</p> <p>If NextHopType is set to NORMAL_CVM, the value of this parameter is the IPv4 address of the CVM, such as 10.0.0.12.</p>
NetDetectId	No	String	ID of a network inspector instance, e.g. netd-12345678. Enter at least one of this parameter, VpcId, SubnetId, and NetDetectName. Use NetDetectId if it is present.
VpcId	No	String	ID of a <code>VPC</code> instance, e.g. <code>vpc-12345678</code> , which is used together with SubnetId and NetDetectName. You should enter either this parameter or NetDetectId, or both. Use NetDetectId if it is present.
SubnetId	No	String	ID of a subnet instance, e.g. <code>subnet-12345678</code> , which is used together with VpcId and NetDetectName. You should enter either this parameter or NetDetectId, or both. Use NetDetectId if it is present.
NetDetectName	No	String	The name of a network inspector, up to 60 bytes in length. It is used together with VpcId and NetDetectName. You should enter either this parameter or NetDetectId, or both. Use NetDetectId if it is present.

### 3. Output Parameters

Parameter Name	Type	Description
NetDetectIpStateSet	Array of <a href="#">NetDetectIpState</a>	The array of network detection verification results.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Verifying the detection parameters based on the network probe ID.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CheckNetDetectState
&NetDetectId=netd-12345678
&DetectDestinationIp.0=10.0.0.2
&DetectDestinationIp.1=10.0.0.3
&NextHopType=NORMAL_CVM
&NextHopDestination=10.0.0.4
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "NetDetectIpStateSet": [
      {
        "DetectDestinationIp": "10.0.0.2",
        "State": 0,
        "Delay": 0,
        "PacketLossRate": 0
      },
      {
        "DetectDestinationIp": "10.0.0.3",
        "State": 0,
        "Delay": 0,
        "PacketLossRate": 0
      }
    ],
    "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
  }
}
```

## 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.NetDetectTimeOut	Network probe timed out. Please retry later.
InvalidParameter	A parameter error occurred.
InvalidParameter.NextHopMismatch	The next hop type does not match with the next hop gateway.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.NetDetectInVpc	The probe destination IP and network probe are in the same VPC.
InvalidParameterValue.NetDetectNotFoundIp	Unable to find the matched next hop in the CCN route table for the destination IP.
InvalidParameterValue.NetDetectSameIp	The detection destination IP address is the same as that of another network detection instance under the same subnet in the same VPC.
InvalidParameterValue.ResourceNotFound	This resource is not found.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.

MissingParameter	Missing parameter.
ResourceInsufficient	Insufficient resources.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.ConflictWithDockerRoute	The IP range overlaps with that of the TKE container under the VPC.
UnsupportedOperation.EcmpWithUserRoute	Form an ECMP with the user's custom routes.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

# Flow Log APIs

## ModifyFlowLogAttribute

最近更新时间：2023-08-23 14:11:30

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify the attributes of a flow log.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyFlowLogAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
FlowLogId	Yes	String	The unique ID of the flow log.
VpcId	No	String	The VPC ID or unique ID of the resource. We recommend using the unique ID. This parameter is required unless the attributes of a CCN flow log is modified.
FlowLogName	No	String	The name of the flow log instance.
FlowLogDescription	No	String	The description of the flow log.

## 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 attributes of a flow log

This example shows you how to modify a flow log.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyFlowLogAttribute
&FlowLogId=fl-xxxxxxx
&FlowLogName=xxxxx
&VpcId=vpc-xxxxx
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "404428db-f850-40c2-803d-0aae49aba43a"
  }
}
```

## 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
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.

# DescribeFlowLogs

最近更新时间：2023-08-23 14:11:30

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query all the flow logs of the current account.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeFlowLogs.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	No	String	ID of the VPC instance
FlowLogId	No	String	The unique ID of the flow log.
FlowLogName	No	String	The name of the flow log instance.
ResourceType	No	String	The resource type of the flow log. Valid values: 'VPC', 'SUBNET', and 'NETWORKINTERFACE'.
ResourceId	No	String	The unique ID of the resource.
TrafficType	No	String	Type of flow logs to be collected. Valid values: 'ACCEPT',

			'REJECT' and 'ALL'.
CloudLogId	No	String	The storage ID of the flow log.
CloudLogState	No	String	The storage ID status of the flow log.
OrderField	No	String	Order by field. Valid values: 'flowLogName' and 'createTime'. Default value: 'createTime'.
OrderDirection	No	String	In ascending ( <code>asc</code> ) or descending ( <code>desc</code> ) order. Default value: 'desc'.
Offset	No	Integer	The offset. Default value: 0.
Limit	No	Integer	The number of rows per page. Default value: 10.
Filters	No	Filter	Filter condition. <code>FlowLogId</code> and <code>Filters</code> cannot be specified at the same time. <ul style="list-style-type: none"> <li><code>tag-key</code> - String - Optional - Filter by the tag key.</li> <li><code>tag:tag-key</code> - String - Optional - Filter by the tag key-value pair. The tag-key should be replaced with a specified tag key.</li> </ul>
CloudLogRegion	No	String	The region corresponding to the flow log storage ID.

### 3. Output Parameters

Parameter Name	Type	Description
FlowLog	Array of <a href="#">FlowLog</a>	The instance set of flow logs.
TotalNum	Integer	The total number of flow logs.
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 flow logs

This example shows you how to query the list of flow logs.

## Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeFlowLogs
<Common request parameters>

{
  "Limit": 10,
  "Offset": 0
}
```

## Output Example

```
{
  "Response": {
    "FlowLog": [
      {
        "CloudLogId": "dfb8f1a2-8522-47c1-8571-67905167ab3f",
        "CloudLogRegion": "ap-guangzhou",
        "CloudLogState": "SUCCESS",
        "CreatedTime": "2019-05-07 18:00:26",
        "FlowLogDescription": "",
        "FlowLogId": "fl-2edhcclz",
        "FlowLogName": "yuemingtest",
        "ResourceId": "eni-78ysaex1",
        "ResourceType": "NETWORKINTERFACE",
        "TrafficType": "ACCEPT",
        "VpcId": "vpc-pq9vxykj",
        "StorageType": "cls",
        "FlowLogStorage": {
          "StorageTopic": "topic-sigmaox1",
          "StorageId": "ckafka-akwiqms1"
        },
        "TagSet": [],
        "Enable": true
      },
      {
        "CloudLogId": "dfb8f1a2-8522-47c1-8571-67905167ab3f",
        "CloudLogRegion": "ap-guangzhou",
        "CloudLogState": "SUCCESS",
        "CreatedTime": "2019-05-08 10:48:26",
        "FlowLogDescription": "",
        "FlowLogId": "fl-f42uhpkj",
        "FlowLogName": "test",

```

```

"ResourceId": "eni-78ysaex1",
"ResourceType": "NETWORKINTERFACE",
"TrafficType": "ACCEPT",
"VpcId": "vpc-pq9vxykj",
"StorageType": "cls",
"FlowLogStorage": {
  "StorageTopic": "topic-sigmaox1",
  "StorageId": "ckafka-akwiqms1"
},
"TagSet": [],
"Enable": true
}
],
"TotalNum": 2,
"RequestId": "404428db-f850-40c2-803d-0aae49aba43a"
}
}
    
```

## Example2 Obtaining the information of flow logs

This example shows you how to query the information of flow logs.

### Input Example

```

POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeFlowLogs
<Common request parameters>

{
  "VpcId": "vpc-ew41hsdj",
  "FlowLogId": "fl-m4vogmhf"
}
    
```

### Output Example

```

{
  "Response": {
    "FlowLog": [
      {
        "VpcId": "vpc-ew41hsdj",
        "FlowLogId": "fl-m4vogmhf",
        "FlowLogName": "sflow-nat",
        "ResourceType": "NAT",
        "ResourceId": "nat-prlux840",
    
```

```
"TrafficType": "ALL",
"CloudLogId": "29a6c8c8-d57d-4e25-84b5-9114734ce6ca",
"CloudLogRegion": "ap-guangzhou",
"CloudLogState": "SUCCESS",
"FlowLogDescription": "",
"CreatedTime": "2022-05-18 15:26:50",
"Enable": true,
"StorageType": "cls",
"FlowLogStorage": {
  "StorageId": "29a6c8c8-d57d-4e25-84b5-9114734ce6ca"
},
"TagSet": []
},
],
"TotalNum": 1,
"RequestId": "811bbd89-3c38-4926-9a8c-4bc97792aa34"
}
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
ResourceNotFound	The resource does not exist.

# DescribeFlowLog

最近更新时间：2023-08-23 14:11:31

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the information of a flow log.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeFlowLog.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	ID of the VPC instance.
FlowLogId	Yes	String	The unique ID of the flow log.

## 3. Output Parameters

Parameter Name	Type	Description
FlowLog	Array of	The flow log information.



	FlowLog	
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying information of a flow log

This example shows you how to query a flow log.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeFlowLog
&VpcId=vpc-pq9vxykj
&FlowLogId=f1-f42uhpkj
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "FlowLog": [
      {
        "CloudLogId": "dfb8f1a2-8522-47c1-8571-67905167ab3f",
        "CloudLogState": "SUCCESS",
        "CreatedTime": "2019-05-08 10:48:26",
        "FlowLogDescription": "",
        "FlowLogId": "f1-f42uhpkj",
        "FlowLogName": "test",
        "ResourceId": "eni-78ysaex1",
        "ResourceType": "NETWORKINTERFACE",
        "TrafficType": "ACCEPT",
        "VpcId": "vpc-pq9vxykj",
        "StorageType": "cls",
        "FlowLogStorage": {
          "StorageTopic": "topic-sigmaox1",
          "StorageId": "ckafka-akwiqms1"
        },
        "TagSet": [],
        "Enable": true,
        "CloudLogRegion": ""
      }
    ],
  }
}
```

```
"RequestId": "404428db-f850-40c2-803d-0aae49aba43a"  
}  
}
```

## 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.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

# DeleteFlowLog

最近更新时间：2023-08-23 14:11:31

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete a flow log.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteFlowLog.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
FlowLogId	Yes	String	The unique ID of the flow log.
VpcId	No	String	The VPC ID or unique ID of the resource. We recommend using the unique ID. This parameter is required unless a CCN flow log is deleted.

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Deleting a flow log

This example shows you how to delete a flow log.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteFlowLog
&FlowLogId=fl-xxxxxx
&VpcId=vpc-xxxxxx
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "404428db-f850-40c2-803d-0aae49aba43a"
  }
}
```

## 5. Developer Resources

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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.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

# CreateFlowLog

最近更新时间：2023-08-23 14:11:31

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create a flow log.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateFlowLog.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
FlowLogName	Yes	String	The name of the flow log instance.
ResourceType	Yes	String	The type of resource associated with the flow log. Valid values: VPC , SUBNET , NETWORKINTERFACE , CCN , NAT , and DCG .
ResourceId	Yes	String	The unique ID of the resource.
TrafficType	Yes	String	Type of the flow logs to be collected. Valid values:

			ACCEPT , REJECT and ALL .
VpcId	No	String	The VPC ID or unique ID of the resource. We recommend using the unique ID. This parameter is required unless the ResourceType is set to CCN .
FlowLogDescription	No	String	The description of the flow log.
CloudLogId	No	String	The storage ID of the flow log.
Tags.N	No	Array of Tag	Bound tags, such as [{"Key": "city", "Value": "shanghai"}].
StorageType	No	String	Consumer types: cls and ckafka
FlowLogStorage	No	FlowLogStorage	Information of the flow log consumer, which is required when the consumer type is ckafka .
CloudLogRegion	No	String	The region corresponding to the flow log storage ID. If not passed in, this field defaults to the current region.

### 3. Output Parameters

Parameter Name	Type	Description
FlowLog	Array of FlowLog	The information of the flow log created.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating a flow log

This example shows you how to create a flow log.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
```

```

Content-Type: application/json
X-TC-Action: CreateFlowLog
<Common request parameters>

{
  "FlowLogName": "test",
  "CloudLogId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "VpcId": "vpc-xxxxxx",
  "FlowLogDescription": "test-flowlog",
  "ResourceType": "NETWORKINTERFACE",
  "ResourceId": "eni-xxxxxxxx",
  "TrafficType": "ACCEPT"
}
    
```

## Output Example

```

{
  "Response": {
    "FlowLog": [
      {
        "VpcId": "vpc-pq9vxykj",
        "FlowLogId": "fl-f42uhpkj",
        "FlowLogName": "test",
        "ResourceType": "NETWORKINTERFACE",
        "ResourceId": "eni-78ysaex1",
        "TrafficType": "ACCEPT",
        "CloudLogId": "dfb8f1a2-8522-47c1-8571-67905167ab3f",
        "CloudLogState": "",
        "CloudLogRegion": "",
        "FlowLogDescription": "",
        "Enable": true,
        "StorageType": "cls",
        "TagSet": [
          {
            "Key": "city",
            "Value": "shanghai"
          }
        ],
        "FlowLogStorage": {
          "StorageTopic": "",
          "StorageId": ""
        },
        "CreatedTime": "0000-00-00 00:00:00"
      }
    ],
    "RequestId": "404428db-f850-40c2-803"
  }
}
    
```



```
}  
}
```

## 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 NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.CreateCkafkaRouteError	Failed to create the Ckafka route. Please retry later.
InternalServerError.ModuleError	Internal module error
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.

InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.
InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
LimitExceeded	Quota limit is reached.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation.DpdkNatFlowLogOnlySupportAllTrafficType	To create a DPDK NAT flow log, the collection type must be <code>All</code> .
UnsupportedOperation.FlowLogInstanceExisted	u200dThere is already a flow log created for the specified ResourceId.

UnsupportedOperation.FlowLogsNotSupportKoInstanceEni	Unable to create a flow log: the current ENI is bound with a KO model.
UnsupportedOperation.FlowLogsNotSupportNullInstanceEni	Unable to create a flow log: the current ENI is not bound to an instance.
UnsupportedOperation.OnlySupportProfessionKafka	Only the Ckafka Pro Edition is supported.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.

# EnableFlowLogs

最近更新时间：2023-08-23 14:11:30

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to enable flow log.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: EnableFlowLogs.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
FlowLogIds.N	Yes	Array of String	Flow log ID.

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Enabling the flow log

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=EnableFlowLogs
&FlowLogIds.0=f1-7rymh5cn
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "a38579de-a046-4d68-b24a-b629c8d0ae57"
  }
}
```

## 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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DisableFlowLogs

最近更新时间：2023-08-23 14:11:30

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to disable flow log.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DisableFlowLogs.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
FlowLogIds.N	Yes	Array of String	Flow log ID.

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Disabling the flow log

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DisableFlowLogs
&FlowLogIds.0=f1-7rymh5cn
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "a38579de-a046-4d68-b24a-b629c8d0ae57"
  }
}
```

## 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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# Gateway Traffic Monitor APIs

## DescribeGatewayFlowMonitorDetail

最近更新时间：2023-08-23 14:11:30

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the traffic monitoring details of the gateway.

- You can only use this API to query a single gateway instance, which means you must pass in only one of `VpnId`, `DirectConnectGatewayId`, `PeeringConnectionId`, or `NatId`.
- If the gateway has traffic, but no data is returned when this API is called, please check whether gateway traffic monitoring has been enabled in the corresponding gateway details page in the console.

A maximum of 30 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeGatewayFlowMonitorDetail.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
TimePoint	Yes	Timestamp	The point in time. This indicates details of this minute

			will be queried. For example, in <code>2019-02-28 18:15:20</code> , details at <code>18:15</code> will be queried.
VpnId	No	String	The instance ID of the VPN gateway, such as <code>vpn-ltjahce6</code> .
DirectConnectGatewayId	No	String	The instance ID of the Direct Connect gateway, such as <code>dcg-ltjahce6</code> .
PeeringConnectionId	No	String	The instance ID of the peering connection, such as <code>pcx-ltjahce6</code> .
NatId	No	String	The instance ID of the NAT gateway, such as <code>nat-ltjahce6</code> .
Offset	No	Integer	Offset.
Limit	No	Integer	The returned quantity.
OrderField	No	String	The order field supports <code>InPkg</code> , <code>OutPkg</code> , <code>InTraffic</code> , and <code>OutTraffic</code> .
OrderDirection	No	String	Order methods. Ascending: <code>ASC</code> , Descending: <code>DESC</code> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of objects meeting the condition.
GatewayFlowMonitorDetailSet	Array of <a href="#">GatewayFlowMonitorDetail</a>	The gateway traffic monitoring details.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the traffic monitoring details of a NAT gateway

This example shows you how to querying the traffic monitoring details of a NAT gateway.

## Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeGatewayFlowMonitorDetail
&TimePoint=2019-02-28 18:15:20
&NatId=nat-lz6rjk7n
&OrderField=OutTraffic
&OrderDirection=DESC
&<common request parameters>
```

## Output Example

```
{
  "Response": {
    "GatewayFlowMonitorDetailSet": [
      {
        "PrivateIpAddress": "172.20.65.74",
        "InPkg": 182,
        "OutPkg": 263,
        "InTraffic": 17316,
        "OutTraffic": 35269
      },
      {
        "PrivateIpAddress": "172.20.65.63",
        "InPkg": 0,
        "OutPkg": 20,
        "InTraffic": 0,
        "OutTraffic": 1960
      },
      {
        "PrivateIpAddress": "172.20.65.70",
        "InPkg": 0,
        "OutPkg": 20,
        "InTraffic": 0,
        "OutTraffic": 1960
      },
      {
        "PrivateIpAddress": "172.20.65.172",
        "InPkg": 0,
        "OutPkg": 20,
        "InTraffic": 0,
        "OutTraffic": 1960
      },
      {
        "PrivateIpAddress": "172.20.65.249",
        "InPkg": 0,
        "OutPkg": 20,
```

```
"InTraffic": 0,
"OutTraffic": 1960
},
],
"TotalCount": 261,
"RequestId": "0fc9884d-7aa1-4d95-95d3-7945108d2b10"
}
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
UnsupportedOperation	Unsupported operation.



# ModifyGatewayFlowQos

最近更新时间：2023-08-23 14:11:29

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to adjust the bandwidth limit of a gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyGatewayFlowQos.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
GatewayId	Yes	String	Gateway instance ID. Supported types: Direct connect gateway instance, such as <code>dcg-1tjahce6</code> ; NAT gateway instance, such as <code>nat-1tjahce6</code> ; VPN gateway instance, such as <code>vpn-1tjahce6</code> .
Bandwidth	Yes	Integer	Bandwidth limit value in Mbps. Valid values: >0: Set the limit to the specified value. 0: Block all traffic. -1: No bandwidth limit.
IpAddresses.N	Yes	Array of String	CVM private IP addresses with limited bandwidth.

### 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 Adjusting the bandwidth limit of a VPN gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyGatewayFlowQos
&GatewayId=vpngw-gree2261
&Bandwidth=10
&IpAddresses.0=10.0.0.12
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

### 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.

# EnableGatewayFlowMonitor

最近更新时间：2023-08-23 14:11:29

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to enable gateway traffic monitor.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: EnableGatewayFlowMonitor.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
GatewayId	Yes	String	Gateway instance ID. Supported types: Direct connect gateway instance, such as <code>dcg-ltjahce6</code> ; NAT gateway instance, such as <code>nat-ltjahce6</code> ; VPN gateway instance, such as <code>vpn-ltjahce6</code> .

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Enabling the VPN gateway traffic monitoring

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=EnableGatewayFlowMonitor
&GatewayId=vpngw-gree2261
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 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	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.

# DisableGatewayFlowMonitor

最近更新时间：2023-08-23 14:11:29

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to disable gateway traffic monitor.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DisableGatewayFlowMonitor.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
GatewayId	Yes	String	Gateway instance ID. Supported types: Direct connect gateway instance, such as <code>dcg-ltjahce6</code> ; NAT gateway instance, such as <code>nat-ltjahce6</code> ; VPN gateway instance, such as <code>vpn-ltjahce6</code> .

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Disabling the VPN gateway traffic monitoring

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DisableGatewayFlowMonitor
&GatewayId=vpngw-gree2261
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```

## 5. Developer Resources

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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	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.

# DescribeGatewayFlowQos

最近更新时间：2023-08-23 14:11:29

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the inbound IP bandwidth limit of a gateway.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeGatewayFlowQos.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
GatewayId	Yes	String	Gateway instance ID. Supported types: Direct connect gateway instance, such as <code>dcg-1tjahce6</code> ; NAT gateway instance, such as <code>nat-1tjahce6</code> ; VPN gateway instance, such as <code>vpn-1tjahce6</code> .
IpAddresses.N	No	Array of String	CVM private IP addresses with limited bandwidth.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value:



100.

### 3. Output Parameters

Parameter Name	Type	Description
GatewayQosSet	Array of <a href="#">GatewayQos</a>	List of instance details
TotalCount	Integer	Number of eligible instances.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the inbound IP bandwidth limit of a VPN gateway

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeGatewayFlowQos
&GatewayId=vpngw-4je9dgin
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "GatewayQosSet": [
      {
        "VpcId": "vpc-mrzkofih",
        "IpAddress": "10.0.0.12",
        "Bandwidth": 10,
        "CreateTime": "2020-01-01 10:00:00"
      }
    ],
    "TotalCount": 1,
    "RequestId": "5cf1a813-d4f8-4e0c-8f90-c155a84a3ea1"
  }
}
```

## 5. Developer Resources

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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	Incorrect parameter value.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.InvalidState	Invalid resource status.

# Private Link APIs

## CreateVpcEndPointService

最近更新时间：2023-08-23 14:11:20

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create an endpoint service.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

### 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateVpcEndPointService.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID
EndPointServiceName	Yes	String	Endpoint service name
AutoAcceptFlag	Yes	Boolean	Whether to automatically accept
ServiceInstanceId	Yes	String	Real server ID, such as <code>lb-xxx</code> .
IsPassService	No	Boolean	(Disused) Whether it's a PaaS service

ServiceType	No	String	Mounted PaaS service type. Values: <code>CLB</code> (default), <code>CDB</code> , <code>CRS</code>
-------------	----	--------	--

### 3. Output Parameters

Parameter Name	Type	Description
EndPointService	<a href="#">EndPointService</a>	Endpoint service details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creating an endpoint service

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateVpcEndPointService
<Common request parameters>

{
  "AutoAcceptFlag": true,
  "EndPointServiceName": "Test",
  "VpcId": "vpce-h0fk81fc",
  "IsPassService": true,
  "ServiceInstanceId": "lb-nswq8wkq",
  "ServiceType": "CLB"
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "b237f475-49b3-4b10-af8e-071e0a5c7d7a",
    "EndPointService": {
      "VpcId": "vpc-hj3he929",
```

```

"AutoAcceptFlag": "false",
"ServiceInstanceId": "lb-nswq8wkq",
"ServiceName": "test_002",
"EndPointServiceId": "vpcsvc-kngiybxl",
"ServiceVip": "10.101.1.11",
"CreateTime": "0000-00-00 00:00:00",
"ServiceOwner": "1254277469",
"EndPointCount": 1,
"EndPointSet": []
}
}
}

```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.ModuleError	Internal module error

InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.InstanceMismatch	The specified instance resource does not match.
UnsupportedOperation.NotMatchTargetService	The target service specified does not match the one specified in the IP application.
UnsupportedOperation.ResourceIsInvalidState	Operation prohibited: The resource is not available.
UnsupportedOperation.RoleNotFound	No roles available. Please confirm whether you get the authorization for the role.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

# DescribeVpcEndPointService

最近更新时间：2023-08-23 14:11:20

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the endpoint service list.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpcEndPointService.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">Filter</a>	Filters. <code>EndPointServiceIds</code> and <code>Filters</code> cannot be both passed in. <ul style="list-style-type: none"><li><code>service-id</code> - String - Unique endpoint service ID.</li><li><code>service-name</code> - String - Endpoint service instance name.</li><li><code>service-instance-id</code> - String - Unique backend service ID in the format of <code>lb-xxx</code>.</li></ul>

			<ul style="list-style-type: none"> <li><code>service-type</code> - String - Backend PaaS service type. It can be <code>CLB</code>, <code>CDB</code> or <code>CRS</code>. It defaults to <code>CLB</code> if not specified.</li> </ul>
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of results per page; default value: 20; maximum value: 100.
EndPointServiceIds.N	No	Array of String	Endpoint service ID <code>EndPointServiceIds</code> and <code>Filters</code> cannot be both passed in.
IsListAuthorizedEndPointService	No	Boolean	

### 3. Output Parameters

Parameter Name	Type	Description
EndPointServiceSet	Array of <a href="#">EndPointService</a>	Array of endpoint services
TotalCount	Integer	Number of matched results
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 endpoint services

This example shows you how to query the list of endpoint services.

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeVpcEndPointService
<Common request parameters>

{
  "EndPointServiceIds": [
    "vpcsvc-kngiybxl"
```



```

],
"Limit": 1,
"Offset": 1
}
    
```

### Output Example

```

{
  "Response": {
    "EndPointServiceSet": [
      {
        "EndPointServiceId": "vpcsvc-pnpcflil",
        "VpcId": "vpc-hj3he929",
        "ServiceOwner": "1254277469",
        "ServiceName": "test_002",
        "ServiceVip": "10.101.1.11",
        "ServiceInstanceId": "lb-nswq8wkq",
        "AutoAcceptFlag": true,
        "EndPointCount": 1,
        "EndPointSet": [
          {
            "ServiceVpcId": "vpc-hj3he929",
            "GroupSet": [
              "sg-tyhgrwet"
            ],
            "ServiceName": "Test",
            "State": "PENDING",
            "ServiceVip": "10.101.1.11",
            "EndPointName": "Node",
            "VpcId": "vpc-hj3he929",
            "EndPointOwner": "1302384414",
            "EndPointId": "vpce-h0fk8lfc",
            "SubnetId": "subnet-4t7fr3fi",
            "CreateTime": "0000-00-00 00:00:00",
            "EndPointServiceId": "vpcsvc-kngiybxl",
            "EndPointVip": "10.101.1.11"
          }
        ],
        "CreateTime": "0000-00-00 00:00:00",
        "ServiceType": "CLB"
      }
    ],
    "TotalCount": 1,
    "RequestId": "452e8b38-10a1-4d8a-8a31-a64b89c8f565"
  }
}
    
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

UnsupportedOperation.InstanceMismatch	The specified instance resource does not match.
UnsupportedOperation.RoleNotFound	No roles available. Please confirm whether you get the authorization for the role.

# ModifyVpcEndPointServiceAttribute

最近更新时间：2023-08-23 14:11:19

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify the VPC endpoint service 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	<a href="#">Common Params</a> . The value used for this API: ModifyVpcEndPointServiceAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
EndPointServiceId	Yes	String	Endpoint service ID
VpcId	Yes	String	VPC ID
EndPointServiceName	No	String	Endpoint service name
AutoAcceptFlag	No	Boolean	Whether to automatically accept VPC endpoint connection requests. Valid values: <ul style="list-style-type: none"><li><code>true</code> : yes</li><li><code>false</code> : no</li></ul>

ServiceInstanceId	No	String	Real server ID in the format of <code>lb-xxxx</code> .
-------------------	----	--------	--

### 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Modifying endpoint service attributes

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyVpcEndPointServiceAttribute
<Common request parameters>

{
  "AutoAcceptFlag": true,
  "EndPointServiceName": "Test",
  "EndPointServiceId": "vpcsvc-kngiybx1",
  "VpcId": "vpc-hj3he929"
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "fefb383a-7394-46c9-ba34-6b21e8fb3ac1"
  }
}
```

### 5. Developer Resources

## SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.ModuleError	Internal module error
InvalidParameterValue.Malformed	Invalid input parameter format.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.

# DeleteVpcEndPointService

最近更新时间：2023-05-17 17:37:59

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete an endpoint service.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteVpcEndPointService.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
EndPointServiceId	Yes	String	Endpoint ID

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Deleting an endpoint service

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteVpcEndPointService
<Common request parameters>

{
  "EndPointServiceId": "vpcsvc-kngiybxl"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "7e6f5074-e4a2-4bb6-9cac-d2357a00896f"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.

# CreateVpcEndPointServiceWhiteList

最近更新时间：2023-08-23 14:11:20

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create the endpoint service allowlist.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateVpcEndPointServiceWhiteList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
UserUin	Yes	String	UIN
EndPointServiceId	Yes	String	Endpoint service ID
Description	No	String	Allowlist description

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating the endpoint service allowlist

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateVpcEndPointServiceWhiteList
<Common request parameters>

{
  "UserUin": "100016184089",
  "Description": "Description",
  "EndPointServiceId": "vpcsvc-kngiybx1"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "7e6f5074-e4a2-4bb6-9cac-d2357a00896f"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.UinNotFound	The account ID does not exist.

# DescribeVpcEndPointServiceWhiteList

最近更新时间：2023-08-23 14:11:20

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the endpoint service allowlist.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpcEndPointServiceWhiteList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of results per page; default value: 20; maximum value: 100.
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition <ul style="list-style-type: none"><li>user-uid - String - (Filter condition) UIN.</li><li>end-point-service-id - String - (Filter condition) Endpoint service ID.</li></ul>

### 3. Output Parameters

Parameter Name	Type	Description
VpcEndpointServiceUserSet	Array of <a href="#">VpcEndPointServiceUser</a>	Array of allowed endpoint services
TotalCount	Integer	Number of matched allowlists
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 DescribeVpcEndPointServiceWhiteList

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeVpcEndPointServiceWhiteList
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "VpcEndpointServiceUserSet": [
      {
        "Owner": 1254277469,
        "UserUin": "100016184089",
        "Description": "Description",
        "EndPointServiceId": "",
        "CreateTime": "vpcsvc-kngiybxl"
      }
    ],
    "RequestId": "7e6f5074-e4a2-4bb6-9cac-d2357a00896f"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
UnsupportedOperation.UinNotFound	The account ID does not exist.

# ModifyVpcEndPointServiceWhiteList

最近更新时间：2023-08-23 14:11:19

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify the attributes of the endpoint service allowlist.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ModifyVpcEndPointServiceWhiteList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
UserUin	Yes	String	User UIN
EndPointServiceId	Yes	String	Endpoint service ID
Description	No	String	Allowlist description

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------



Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying the endpoint service allowlist

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyVpcEndPointServiceWhiteList
<Common request parameters>

{
  "UserUin": "123",
  "Description": "Test",
  "EndPointServiceId": "vpcsvc-b2mrmx7"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "cccb2665-5d02-4d87-b9e7-757bb06e5beb"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.UinNotFound	The account ID does not exist.

# EnableVpcEndPointConnect

最近更新时间：2023-08-23 14:11:19

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to determine whether to accept the request of connecting with an endpoint.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: EnableVpcEndPointConnect.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
EndPointServiceId	Yes	String	Endpoint service ID
EndPointId.N	Yes	Array of String	Endpoint ID
AcceptFlag	Yes	Boolean	Whether to accept the request of connecting with an endpoint

## 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 Determining whether to accept the request of connecting with an endpoint

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: EnableVpcEndPointConnect
<Common request parameters>

{
  "AcceptFlag": true,
  "EndPointId": [
    "vpce-h0fk8lfc"
  ],
  "EndPointServiceId": "vpcsvc-kngiybxl"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "ecaa7a90-a2fd-4fa3-8bf8-7d0723c95a99"
  }
}
```

## 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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## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Malformed	Invalid input parameter format.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.

# DeleteVpcEndPointServiceWhiteList

最近更新时间：2023-08-23 14:11:20

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete the endpoint service allowlist.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteVpcEndPointServiceWhiteList.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
UserUin.N	Yes	Array of String	Array of user UINs
EndPointServiceId	Yes	String	Endpoint service ID

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Deleting the endpoint service allowlist

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteVpcEndPointServiceWhiteList
<Common request parameters>

{
  "UserUin": [
    "100000059551"
  ],
  "EndPointServiceId": "vpcsvc-kngiybxl"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "ecaa7a90-a2fd-4fa3-8bf8-7d0723c95a99"
  }
}
```

## 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.Malformed	Invalid input parameter format.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.UinNotFound	The account ID does not exist.



# DescribeVpcEndPoint

最近更新时间：2023-08-23 14:11:20

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the endpoint list.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeVpcEndPoint.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition <ul style="list-style-type: none"> <li>end-point-service-id - String - (Filter condition) Endpoint service ID.</li> <li>end-point-name - String - (Filter condition) Endpoint instance name.</li> <li>end-point-id - String - (Filter condition) Endpoint instance ID.</li> <li>vpc-id - String - (Filter condition) VPC instance ID.</li> </ul>
Offset	No	Integer	Offset. Default value: 0.

Limit	No	Integer	Number of results per page; default value: 20; maximum value: 100.
EndPointId.N	No	Array of String	Endpoint ID list

### 3. Output Parameters

Parameter Name	Type	Description
EndPointSet	Array of <a href="#">EndPoint</a>	Endpoint
TotalCount	Integer	Number of matched endpoints
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying the endpoint list

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeVpcEndPoint
<Common request parameters>

{
  "Limit": 1,
  "EndPointId": [
    "vpce-h0fk8lfc"
  ],
  "Offset": 1
}
```

##### Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "7e6f5074-e4a2-4bb6-9cac-d2357a00896f",
    "EndPointSet": [
      {
        "ServiceVpcId": "vpc-hj3he929",
        "GroupSet": [
          "sg-tyhgrwet"
        ],
        "ServiceName": "Test",
        "State": "PENDING",
        "ServiceVip": "10.101.1.11",
        "EndPointName": "Endpoint",
        "VpcId": "vpc-hj3he929",
        "EndPointOwner": "1302384414",
        "EndPointId": "vpce-h0fk8lfc",
        "SubnetId": "subnet-4t7fr3fi",
        "CreateTime": "0000-00-00 00:00:00",
        "EndPointServiceId": "vpcsvc-kngiybxl",
        "EndPointVip": "10.101.1.11"
      }
    ]
  }
}
```

## 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 C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
ResourceNotFound.SvcNotExist	The Svc doesn't exist.

# CreateVpcEndPoint

最近更新时间：2023-08-23 14:11:21

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create an endpoint.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: CreateVpcEndPoint.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
VpcId	Yes	String	VPC instance ID
SubnetId	Yes	String	Subnet instance ID
EndPointName	Yes	String	Endpoint name
EndPointServiceId	Yes	String	Endpoint service ID
EndPointVip	No	String	Endpoint VIP. You can apply for a specified IP.
SecurityGroupId	No	String	Security group ID

### 3. Output Parameters

Parameter Name	Type	Description
EndPoint	EndPoint	Endpoint details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Creates an endpoint

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateVpcEndPoint
<Common request parameters>

{
  "SubnetId": "subnet-4t7fr3fi",
  "EndPointName": "point_002",
  "VpcId": "vpc-coekkqtd",
  "EndPointServiceId": "vpcsvc-kngiybxl"
}
```

##### Output Example

```
{
  "Response": {
    "EndPoint": {
      "ServiceVpcId": "vpc-hj3he929",
      "VpcId": "vpc-coekkqtd",
      "State": "PENDING",
      "ServiceVip": "10.101.1.11",
      "EndPointName": "point_002",
      "GroupSet": [],
      "EndPointOwner": "1302384414",
      "EndPointId": "vpce-h0fk8lfc",
      "SubnetId": "subnet-4t7fr3fi",
```

```

"CreateTime": "0000-00-00 00:00:00",
"EndPointServiceId": "vpcsvc-kngiybx1",
"EndPointVip": "10.0.0.8",
"ServiceName": "Service"
},
"RequestId": "fefb383a-7394-46c9-ba34-6b21e8fb3ac1"
}
}

```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Reserved	The parameter value is retained by the system.

InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resources.
ResourceInsufficient.Subnet	The subnet does not have sufficient IPs.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.ServiceWhiteListNotAdded	The current user is not in the allowlist of the specified endpoint service.
UnauthorizedOperation.NoRealNameAuthentication	Identity verification has not been completed for the account.
UnsupportedOperation.EndPointService	The endpoint service itself cannot be set as the endpoint.
UnsupportedOperation.InsufficientFunds	Insufficient account balance.
UnsupportedOperation.SnatSubnet	The SNAT subnet does not support assigning IPs.
UnsupportedOperation.SpecialEndPointService	The endpoint created by the specified endpoint service cannot be bound to a security group.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.



# ModifyVpcEndPointAttribute

最近更新时间：2023-08-23 14:11:19

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify endpoint 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	<a href="#">Common Params</a> . The value used for this API: ModifyVpcEndPointAttribute.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
EndPointId	Yes	String	Endpoint ID
EndPointName	No	String	Endpoint name
SecurityGroupIds.N	No	Array of String	List of security group IDs

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Modifying endpoint attributes

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyVpcEndPointAttribute
<Common request parameters>

{
  "EndPointName": "Test",
  "EndPointId": "vpce-h0fk8lfc"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "fefb383a-7394-46c9-ba34-6b21e8fb3ac1"
  }
}
```

## 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	Incorrect parameter value.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Toolong	Invalid parameter value. The parameter value is too long.
LimitExceeded	Quota limit is reached.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.SvcNotExist	The Svc doesn't exist.
UnsupportedOperation	Unsupported operation.
UnsupportedOperation.SpecialEndPointService	The endpoint created by the specified endpoint service cannot be bound to a security group.

# DeleteVpcEndPoint

最近更新时间：2023-05-17 17:37:59

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete an endpoint.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DeleteVpcEndPoint.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
EndPointId	Yes	String	Endpoint ID

## 3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 DeleteVpcEndPoint

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteVpcEndPoint
<Common request parameters>

{
  "EndPointId": "vpce-h0fk81fc"
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "7e6f5074-e4a2-4bb6-9cac-d2357a00896f"
  }
}
```

## 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.Malformed	Invalid input parameter format.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.

# DisassociateVpcEndPointSecurityGroups

最近更新时间：2023-05-17 17:37:58

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to unbind an endpoint from 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	<a href="#">Common Params</a> . The value used for this API: DisassociateVpcEndPointSecurityGroups.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SecurityGroupIds.N	Yes	Array of String	Array of security group IDs
EndPointId	Yes	String	Endpoint ID

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Unbinding an endpoint from a security group

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DisassociateVpcEndPointSecurityGroups
<Common request parameters>

{
  "EndPointId": "vpce-h0fk8lfc",
  "SecurityGroupIds": [
    "sg-serghftg"
  ]
}
```

#### Output Example

```
{
  "Response": {
    "RequestId": "7e6f5074-e4a2-4bb6-9cac-d2357a00896f"
  }
}
```

## 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.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

# Snapshot Policy APIs

## AttachSnapshotInstances

最近更新时间：2023-08-23 14:11:16

### 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to associate a snapshot policy with specified 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	<a href="#">Common Params</a> . The value used for this API: AttachSnapshotInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyId	Yes	String	Snapshot policy IDs
Instances.N	Yes	Array of <a href="#">SnapshotInstance</a>	Information of associated 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 Associating a snapshot policy with instances

##### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AttachSnapshotInstances
<Common request parameters>

{
  "SnapshotPolicyId": "sspolicy-g6jwvm35",
  "Instances": [
    {
      "InstanceId": "sg-e18r37v3",
      "InstanceType": "securitygroup",
      "InstanceRegion": "ap-shanghai"
    }
  ]
}
```

##### Output Example

```
{
  "Response": {
    "RequestId": "a38579de-a046-4d68-b24a-b629c8d0ae57"
  }
}
```

### 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
InvalidParameterValue.DuplicatePara	The parameter value already exists.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
LimitExceeded	Quota limit is reached.
LimitExceeded.AttachedSnapshotPolicyExceeded	Reached the upper limit of snapshot policies associated with an instance
ResourceNotFound	The resource does not exist.
UnsupportedOperation.SnapshotAttached	This instance is already associated with a snapshot policy.
UnsupportedOperation.SnapshotInstanceRegionDiff	Batch association only supports instances in the same region.

# CreateSnapshotPolicies

最近更新时间：2023-07-11 17:48:31

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to create snapshot 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	<a href="#">Common Params</a> . The value used for this API: CreateSnapshotPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicies.N	Yes	Array of <a href="#">SnapshotPolicy</a>	Details of a snapshot policy

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

SnapshotPolicies	Array of <a href="#">SnapshotPolicy</a>	Snapshot policies
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Creating snapshot policies

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateSnapshotPolicies
<Common request parameters>

{
  "SnapshotPolicies": [
    {
      "KeepTime": "180",
      "CosRegion": "ap-guangzhou",
      "CosBucket": "test-12345678",
      "CreateNewCos": "true",
      "SnapshotPolicyName": "test_name",
      "BackupType": "operate"
    }
  ]
}
```

#### Output Example

```
{
  "Response": {
    "SnapshotPolicies": [
      {
        "SnapshotPolicyId": "sspolicy-n08du1g3",
        "SnapshotPolicyName": "test_name",
        "KeepTime": 180,
        "CosRegion": "ap-guangzhou",
        "CosBucket": "test-12345678",
        "Enable": true,
        "BackupType": "operate",

```

```
"CreateNewCos": true
}
],
"RequestId": "fdb6828-e317-4bd8-940f-6e12b09ecf1b"
}
}
```

## 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 C++](#)

### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ModuleError	Internal module error
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.

LimitExceeded	Quota limit is reached.
ResourceNotFound	The resource does not exist.
UnsupportedOperation	Unsupported operation.



# DeleteSnapshotPolicies

最近更新时间：2023-08-23 14:11:16

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to delete snapshot 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	<a href="#">Common Params</a> . The value used for this API: DeleteSnapshotPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyIds.N	Yes	Array of String	Snapshot policy IDs

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Deletes snapshot policies

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteSnapshotPolicies
&SnapshotPolicyIds.0=sspolicy-0mrp8xzp
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "fdb6828-e317-4bd8-940f-6e12b09ecf1b"
  }
}
```

## 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
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# DescribeSgSnapshotFileContent

最近更新时间：2023-08-23 14:11:15

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the snapshot file contents.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeSgSnapshotFileContent.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyId	Yes	String	Snapshot policy IDs
SnapshotFileId	Yes	String	Snapshot file ID
SecurityGroupId	Yes	String	Security group ID

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

InstanceId	String	Security group ID
SnapshotPolicyId	String	Snapshot policy IDs
SnapshotFileId	String	Snapshot file ID
BackupTime	String	Backup time
Operator	String	Operator
OriginalData	Array of <a href="#">SecurityGroupPolicy</a>	Original data
BackupData	Array of <a href="#">SecurityGroupPolicy</a>	Backup data
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Querying contents of security group snapshot files

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeSgSnapshotFileContent
&SnapshotPolicyId=sspolicy-ebjofe71
&SnapshotFileId=ssfile-017gepjxpr
&SecurityGroupId=sg-ntrgm89v
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "InstanceId": "sg-ntrgm89v",
    "SnapshotPolicyId": "sspolicy-ebjofe71",
    "SnapshotFileId": "ssfile-017gepjxpr",
    "BackupTime": "2021-10-25 15:00:10",
    "Operator": "100000072292",
    "OriginalData": [
      {
        "PolicyIndex": 0,
        "Protocol": "icmp",
        "Port": "ALL",
```

```
"CidrBlock": "0.0.0.0/0",
"ModifyTime": "2021-09-02 11:24:13",
"Action": "DROP",
"PolicyDescription": "Allow PING"
},
{
"PolicyIndex": 1,
"Protocol": "icmpv6",
"Port": "ALL",
"Ipv6CidrBlock": "::/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow PING"
},
{
"PolicyIndex": 2,
"Protocol": "tcp",
"Port": "22",
"CidrBlock": "0.0.0.0/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow Linux SSH login"
},
{
"PolicyIndex": 3,
"Protocol": "tcp",
"Port": "22",
"Ipv6CidrBlock": "::/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow Linux SSH login"
},
{
"PolicyIndex": 4,
"Protocol": "tcp",
"Port": "3389",
"CidrBlock": "0.0.0.0/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow Windows remote login"
},
{
"PolicyIndex": 5,
"Protocol": "tcp",
"Port": "3389",
"Ipv6CidrBlock": "::/0",
"ModifyTime": "2021-09-01 19:16:12",
```

```
"Action": "ACCEPT",
"PolicyDescription": "Allow Windows remote login"
},
{
"PolicyIndex": 6,
"Protocol": "ALL",
"Port": "ALL",
"CidrBlock": "10.0.0.0/8",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow private network access (VPC)"
},
{
"PolicyIndex": 7,
"Protocol": "ALL",
"Port": "ALL",
"CidrBlock": "172.16.0.0/12",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow private network access (VPC)"
},
{
"PolicyIndex": 8,
"Protocol": "ALL",
"Port": "ALL",
"CidrBlock": "192.168.0.0/16",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow private network access (VPC)"
},
{
"PolicyIndex": 0,
"Protocol": "ALL",
"Port": "ALL",
"CidrBlock": "0.0.0.0/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT"
},
{
"PolicyIndex": 1,
"Protocol": "ALL",
"Port": "ALL",
"Ipv6CidrBlock": "::/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT"
}
],
```

```
"BackupData": [
  {
    "PolicyIndex": 0,
    "Protocol": "icmp",
    "Port": "ALL",
    "CidrBlock": "0.0.0.0/0",
    "ModifyTime": "2021-09-02 11:24:13",
    "Action": "DROP",
    "PolicyDescription": "Allow PING"
  },
  {
    "PolicyIndex": 1,
    "Protocol": "icmpv6",
    "Port": "ALL",
    "Ipv6CidrBlock": "::/0",
    "ModifyTime": "2021-09-01 19:16:12",
    "Action": "ACCEPT",
    "PolicyDescription": "Allow PING"
  },
  {
    "PolicyIndex": 2,
    "Protocol": "tcp",
    "Port": "22",
    "CidrBlock": "0.0.0.0/0",
    "ModifyTime": "2021-09-01 19:16:12",
    "Action": "ACCEPT",
    "PolicyDescription": "Allow Linux SSH login"
  },
  {
    "PolicyIndex": 3,
    "Protocol": "tcp",
    "Port": "22",
    "Ipv6CidrBlock": "::/0",
    "ModifyTime": "2021-09-01 19:16:12",
    "Action": "ACCEPT",
    "PolicyDescription": "Allow Linux SSH login"
  },
  {
    "PolicyIndex": 4,
    "Protocol": "tcp",
    "Port": "3389",
    "CidrBlock": "0.0.0.0/0",
    "ModifyTime": "2021-09-01 19:16:12",
    "Action": "ACCEPT",
    "PolicyDescription": "Allow Windows remote login"
  },
  {
```



```
"PolicyIndex": 5,
"Protocol": "tcp",
"Port": "3389",
"Ipv6CidrBlock": ":::/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow Windows remote login"
},
{
"PolicyIndex": 6,
"Protocol": "ALL",
"Port": "ALL",
"CidrBlock": "10.0.0.0/8",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow private network access (VPC)"
},
{
"PolicyIndex": 7,
"Protocol": "ALL",
"Port": "ALL",
"CidrBlock": "172.16.0.0/12",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow private network access (VPC)"
},
{
"PolicyIndex": 8,
"Protocol": "ALL",
"Port": "ALL",
"CidrBlock": "192.168.0.0/16",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT",
"PolicyDescription": "Allow private network access (VPC)"
},
{
"PolicyIndex": 0,
"Protocol": "ALL",
"Port": "ALL",
"CidrBlock": "0.0.0.0/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT"
},
{
"PolicyIndex": 1,
"Protocol": "ALL",
"Port": "ALL",
```

```
"Ipv6CidrBlock": ":::/0",
"ModifyTime": "2021-09-01 19:16:12",
"Action": "ACCEPT"
},
],
"RequestId": "6886c65f-f9bb-4547-93ee-71f781b0e014"
}
}
```

## 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.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.SnapshotFileFailed	Failed to generate the snapshot file.
UnsupportedOperation.SnapshotFileNoExist	The snapshot file is expired or has been deleted.

UnsupportedOperation.SnapshotFileProcessing

Generating the snapshot file...Please check again later.

# DescribeSnapshotAttachedInstances

最近更新时间：2023-08-23 14:11:15

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query instances associated with a snapshot 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	<a href="#">Common Params</a> . The value used for this API: DescribeSnapshotAttachedInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyId	Yes	String	Snapshot policy IDs
Filters.N	No	Array of <a href="#">Filter</a>	Filters Values: <ul style="list-style-type: none"><li><code>instance-id</code> : Instance ID</li><li><code>instance-region</code> : Instance region</li></ul>
Offset	No	Integer	Offset. Default value: <code>0</code> .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 200.

### 3. Output Parameters

Parameter Name	Type	Description
InstanceSet	Array of <a href="#">SnapshotInstance</a>	List of instances
TotalCount	Integer	The number of eligible objects.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying instances associated with a snapshot policy

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeSnapshotAttachedInstances
&SnapshotPolicyId=sspolicy-g6jwvm35
&Offset=0
&Limit=2
&Filters.0.Name=uniqInstanceId
&Filters.0.Values.0=sg-ntrgm89v
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "InstanceSet": [
      {
        "InstanceId": "sg-ntrgm89v",
        "InstanceRegion": "ap-shanghai",
        "InstanceType": "securitygroup",
        "SnapshotPolicyId": "sspolicy-g6jwvm35",
        "InstanceName": "test11111"
      }
    ],
    "TotalCount": 1,
    "RequestId": "2099cfcf-fe15-4825-93a1-642c9ad2630f"
```

```
}  
}
```

## 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.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.

# DescribeSnapshotPolicies

最近更新时间：2023-08-23 14:11:15

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query snapshot 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	<a href="#">Common Params</a> . The value used for this API: DescribeSnapshotPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyIds.N	No	Array of String	Snapshot policy IDs
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <code>SnapshotPolicyIds</code> and <code>Filters</code> cannot be both specified. <ul style="list-style-type: none"><li><code>snapshot-policy-id</code> - String - Snapshot policy ID</li><li><code>snapshot-policy-name</code> - String - Snapshot policy name</li></ul>
Offset	No	Integer	Offset. Default value: <code>0</code> .

Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 200.
-------	----	---------	--

### 3. Output Parameters

Parameter Name	Type	Description
SnapshotPolicySet	Array of <a href="#">SnapshotPolicy</a>	Snapshot policies
TotalCount	Integer	The number of eligible objects.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Queries snapshot policies

##### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeSnapshotPolicies
&Offset=0
&Limit=2
&Filters.0.Name=snapshot-policy-id
&Filters.0.Values.0=sspolicy-g6jwvm35
&<Common request parameters>
```

##### Output Example

```
{
  "Response": {
    "SnapshotPolicySet": [
      {
        "SnapshotPolicyId": "sspolicy-g6jwvm35",
        "SnapshotPolicyName": "test2",
        "KeepTime": 180,
        "CosRegion": "ap-guangzhou",
        "CosBucket": "test1-251197522",
        "CreateTime": "2021-10-08 16:09:46",
        "Enable": true,

```



```
"BackupType": "operate",
"CreateNewCos": false
},
],
"TotalCount": 1,
"RequestId": "a38579de-a046-4d68-b24a-b629c8d0ae57"
}
}
```

## 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.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.

# DetachSnapshotInstances

最近更新时间：2023-08-23 14:11:15

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to disassociate a snapshot policy with 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	<a href="#">Common Params</a> . The value used for this API: DetachSnapshotInstances.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyId	Yes	String	Snapshot policy IDs
Instances.N	Yes	Array of <a href="#">SnapshotInstance</a>	Information of 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 Disassociates a snapshot policy with instances

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DetachSnapshotInstances
&SnapshotPolicyId=sspolicy-g6jwvm35
&Instances.0.InstanceId=sg-e18r37v3
&Instances.0.InstanceType=securitygroup
&Instances.0.InstanceRegion=ap-shanghai
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "a38579de-a046-4d68-b24a-b629c8d0ae57"
  }
}
```

## 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	Incorrect parameter value.
InvalidParameterValue.DuplicatePara	The parameter value already exists.
InvalidParameterValue.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.SnapshotInstanceRegionDiff	Batch association only supports instances in the same region.
UnsupportedOperation.SnapshotNotAttached	The instance is not associated with any snapshot policy.

# DisableSnapshotPolicies

最近更新时间：2023-08-23 14:11:14

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to disable specified snapshot 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	<a href="#">Common Params</a> . The value used for this API: DisableSnapshotPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyIds.N	Yes	Array of String	Snapshot policy IDs

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Disables specified snapshot policies

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DisableSnapshotPolicies
&SnapshotPolicyIds.0=sspolicy-g6jwvm35
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "a38579de-a046-4d68-b24a-b629c8d0ae57"
  }
}
```

## 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.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# EnableSnapshotPolicies

最近更新时间：2023-08-23 14:11:14

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to enable specified snapshot 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	<a href="#">Common Params</a> . The value used for this API: EnableSnapshotPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyIds.N	Yes	Array of String	Snapshot policy IDs

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------



RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

## 4. Example

### Example1 Enabling specified snapshot policies

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=EnableSnapshotPolicies
&SnapshotPolicyIds.0=sspolicy-g6jwvm35
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "a38579de-a046-4d68-b24a-b629c8d0ae57"
  }
}
```

## 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.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.

# ModifySnapshotPolicies

最近更新时间：2023-07-11 17:48:29

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to modify specified snapshot 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	<a href="#">Common Params</a> . The value used for this API: ModifySnapshotPolicies.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPoliciesInfo.N	Yes	Array of <a href="#">BatchModifySnapshotPolicy</a>	Modify snapshot policies

## 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 Modifies specified snapshot policies

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifySnapshotPolicies
&SnapshotPoliciesInfo.0.SnapshotPolicyId=sspolicy-aart89ip
&SnapshotPoliciesInfo.0.SnapshotPolicyName=new_name
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "fdb6828-e317-4bd8-940f-6e12b09ecf1b"
  }
}
```

## 5. Developer Resources

### SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
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### Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Malformed	Invalid input parameter format.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.SnapshotBackupTypeModify	Snapshot backup policy cannot be modified.

# ResumeSnapshotInstance

最近更新时间：2023-08-23 14:11:14

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to restore security group policies with a backup.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: ResumeSnapshotInstance.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
SnapshotPolicyId	Yes	String	Snapshot policy IDs
SnapshotFileId	Yes	String	Snapshot file ID
InstanceId	Yes	String	ID of the instance.

## 3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Example

### Example1 Restoring a snapshot instance

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=ResumeSnapshotInstance
&SnapshotPolicyId=sspolicy-aart89ip
&SnapshotFileId=ssfile-emtabuwu2z
&InstanceId=sg-ntrgm89v
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "RequestId": "a38579de-a046-4d68-b24a-b629c8d0ae57"
  }
}
```

## 5. Developer Resources

### SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

## Command Line Interface

- [Tencent Cloud CLI 3.0](#)

## 6. Error Code

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.Malformed	Invalid input parameter format.
ResourceNotFound	The resource does not exist.



# DescribeSnapshotFiles

最近更新时间：2023-08-23 14:11:15

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query snapshot files.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

## 2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	<a href="#">Common Params</a> . The value used for this API: DescribeSnapshotFiles.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
BusinessType	Yes	String	Type of associated resource. Values: <code>securitygroup</code>
InstanceId	Yes	String	Service instance ID. It's corresponding to the <code>BusinessType</code> .
StartDate	Yes	String	Start time. Format: %Y-%m-%d %H:%M:%S
EndDate	Yes	String	End time. Format: %Y-%m-%d %H:%M:%S
Offset	No	Integer	Offset. Default value: <code>0</code> .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value:

100.

### 3. Output Parameters

Parameter Name	Type	Description
SnapshotFileSet	Array of <a href="#">SnapshotFileInfo</a>	Snapshot files
TotalCount	Integer	The number of eligible objects.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Example

#### Example1 Querying snapshots of an instance

This example shows you how to query the snapshots of the current instance.

#### Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeSnapshotFiles
&BusinessType=securitygroup
&InstanceId=sg-ntrgm89v
&StartDate=2021-10-10 00:00:00
&EndDate=2021-10-30 19:00:00
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "SnapshotFileSet": [
      {
        "InstanceId": "sg-ntrgm89v",
        "SnapshotPolicyId": "sspolicy-ebjofe71",
        "SnapshotFileId": "ssfile-017gepjxpr",
        "BackupTime": "2021-10-25 15:00:10",
        "Operator": "100000072292"
      },

```

```
{
  "InstanceId": "sg-ntrgm89v",
  "SnapshotPolicyId": "sspolicy-ebjofe71",
  "SnapshotFileId": "ssfile-ibvthz32h3",
  "BackupTime": "2021-10-25 00:00:10",
  "Operator": "100000072292"
},
{
  "InstanceId": "sg-ntrgm89v",
  "SnapshotPolicyId": "sspolicy-ebjofe71",
  "SnapshotFileId": "ssfile-bu7rtl9145",
  "BackupTime": "2021-10-20 12:01:02",
  "Operator": "100000072292"
}
],
"TotalCount": 3,
"RequestId": "a54419ea-8f2d-4d38-a69a-2315d413626f"
}
```

## 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
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.Range	The parameter value is not in the specified range.
ResourceNotFound	The resource does not exist.
UnsupportedOperation.SnapshotNotAttached	The instance is not associated with any snapshot policy.

## Other APIs

# DescribeVpcTaskResult

最近更新时间：2023-08-23 14:11:21

## 1. API Description

Domain name for API request: vpc.tencentcloudapi.com.

This API is used to query the execution result of a VPC 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	<a href="#">Common Params</a> . The value used for this API: DescribeVpcTaskResult.
Version	Yes	String	<a href="#">Common Params</a> . The value used for this API: 2017-03-12.
Region	No	String	<a href="#">Common Params</a> . This parameter is not required for this API.
TaskId	Yes	String	<code>RequestId</code> returned by an async task

## 3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

Status	String	The execution results of an async task. Valid values: <code>SUCCESS</code> (task executed successfully), <code>FAILED</code> (task execution failed), and <code>RUNNING</code> (task in progress).
Output	String	Output of the async task execution result
Result	Array of <a href="#">VpcTaskResultDetailInfo</a>	Detailed result of an async task, such as the result of batch deleting ENIs. Note: this field may return <code>null</code> , indicating that no valid value 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 execution result of an async task

#### Input Example

```
POST / HTTP/1.1
Host: vpc.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeVpcTaskResult
<Common request parameters>

{
  "TaskId": "481e9b6e-81d1-4859-b8cf-a673e010b388"
}
```

#### Output Example

```
{
  "Response": {
    "Status": "SUCCESS",
    "Output": "SUCCESS",
    "Result": [
      {
        "ResourceId": "eni-olifj433",
        "Status": "SUCCESS"
      }
    ],
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

```
}  
}
```

## 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
InternalServerError	Internal module error
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation.

# Data Types

最近更新时间：2023-08-23 14:11:39

## AccountAttribute

Account attribute object

Used by actions: DescribeAccountAttributes.

Name	Type	Description
AttributeName	String	Attribute name
AttributeValues	Array of String	Attribute values

## Address

Detailed EIP information

Used by actions: DescribeAddresses.

Name	Type	Description
AddressId	String	<code>EIP ID</code> , the unique ID of the <code>EIP</code> .
AddressName	String	The <code>EIP</code> name.
AddressStatus	String	Possible <code>EIP</code> states are 'CREATING', 'BINDING', 'BIND', 'UNBINDING', 'UNBIND', 'OFFLINING', and 'BIND_ENI'.
AddressIp	String	The public IP address
InstanceId	String	The ID of the bound resource instance. This can be a <code>CVM</code> or <code>NAT</code> .
CreatedTime	Timestamp ISO8601	The creation time, which follows the <code>ISO8601</code> standard and uses <code>UTC</code> time in the format of <code>YYYY-MM-DDThh:mm:ssZ</code> .
NetworkInterfaceId	String	The ID of the bound ENI
PrivateAddressIp	String	The private IP of the bound resources
IsArrears	Boolean	



		The isolation status of the resource. <code>True</code> indicates the EIP is isolated. <code>False</code> indicates that the resource is not isolated.
IsBlocked	Boolean	The block status of the resource. <code>True</code> indicates the EIP is blocked. <code>False</code> indicates that the EIP is not blocked.
IsEipDirectConnection	Boolean	Whether the EIP supports direct connection mode. <code>True</code> indicates the EIP supports direct connection. <code>False</code> indicates that the resource does not support direct connection.
AddressType	String	IP type. Valid values: <code>CalcIP</code> (device IP), <code>WanIP</code> (public network IP), <code>EIP</code> (general elastic IP), <code>AnycastEIP</code> (accelerated EIP), and <code>AntiDDoSEIP</code> (Anti DDoS EIP).
CascadeRelease	Boolean	Whether the EIP is automatically released after being unbound. <code>True</code> indicates the EIP will be automatically released after being unbound. <code>False</code> indicates the EIP will not be automatically released after being unbound.
EipAlgType	<a href="#">AlgType</a>	Type of the protocol used in EIP ALG
InternetServiceProvider	String	The ISP of an EIP/Elastic IP, with possible return values currently including "CMCC", "CTCC", "CUCC" and "BGP"
LocalBgp	Boolean	Whether the EIP is in a local BGP.
Bandwidth	Integer	Bandwidth value of EIP. The EIP for the bill-by-CVM account will return <code>null</code> . Note: this field may return <code>null</code> , indicating that no valid value was found.
InternetChargeType	String	Network billing mode of EIP. The EIP for the bill-by-CVM account will return <code>null</code> . Note: this field may return <code>null</code> , indicating that no valid value was found. Including: <ul style="list-style-type: none"> <li><b>BANDWIDTH_PREPAID_BY_MONTH</b> Prepaid by monthly-subscribed bandwidth.</li> <li><b>TRAFFIC_POSTPAID_BY_HOUR</b> Pay-as-you-go billing by hourly traffic.</li> <li><b>BANDWIDTH_POSTPAID_BY_HOUR</b></li> </ul>

		<p>Pay-as-you-go billing by hourly bandwidth.</p> <ul style="list-style-type: none"> <li><b>BANDWIDTH_PACKAGE</b></li> </ul> <p>Bandwidth package.</p> <p>Note: this field may return <code>null</code> , indicating that no valid value was found.</p>
TagSet	Array of <a href="#">Tag</a>	<p>List of tags associated with the EIP</p> <p>Note: this field may return <code>null</code> , indicating that no valid values can be obtained.</p>
DeadlineDate	Date	<p>The expiration time.</p> <p>Note: this field may return <code>null</code> , indicating that no valid values can be obtained.</p>
InstanceType	String	<p>The type of instance bound with the EIP</p> <p>Note: this field may return <code>null</code> , indicating that no valid value was found.</p>
AntiDDoSPackageId	String	<p>ID of the Anti-DDoS service package. It is returned if the EIP is an u200dAnti-DDoS EIP.</p>

## AddressChargePrepaid

EIP cost object

Used by actions: `AllocateAddresses`, `ModifyAddressInternetChargeType`.

Name	Type	Required	Description
Period	Integer	Yes	Purchased usage period, in month. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36
AutoRenewFlag	Integer	No	Setting of renewal. Valid values: 0: manual renewal; 1: auto-renewal; 2: no renewal after expiration. Default value: 0

## AddressInfo

IP address template information

Used by actions: CreateAddressTemplate, DescribeAddressTemplates, ModifyAddressTemplateAttribute.

Name	Type	Required	Description
Address	String	Yes	IP address
Description	String	No	Remarks Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## AddressTemplate

IP address template

Used by actions: CreateAddressTemplate, DescribeAddressTemplates.

Name	Type	Description
AddressTemplateName	String	IP address template name.
AddressTemplateId	String	The unique ID of the IP address template instance.
AddressSet	Array of String	IP address information.
CreatedTime	String	Creation Time.
AddressExtraSet	Array of <a href="#">AddressInfo</a>	IP address information with remarks

## AddressTemplateGroup

IP address template group

Used by actions: CreateAddressTemplateGroup, DescribeAddressTemplateGroups.

Name	Type	Description
AddressTemplateGroupName	String	IP address template group name.
AddressTemplateGroupId	String	IP address template group instance ID, such as <code>ipmg-dih8xdbq</code> .
AddressTemplateIdSet	Array of String	IP address template ID.
CreatedTime	String	Creation Time.

AddressTemplateSet	Array of <a href="#">AddressTemplateItem</a>	IP address template instance
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## AddressTemplateItem

Address information

Used by actions: CreateAddressTemplateGroup, DescribeAddressTemplateGroups.

Name	Type	Required	Description
AddressTemplateId	String	No	ipm-xxxxxxx
AddressTemplateName	String	No	IP template name
From	String	No	Disused
To	String	No	Disused

## AddressTemplateSpecification

IP address template

Used by actions: CreateSecurityGroupPolicies, CreateSecurityGroupWithPolicies, DeleteSecurityGroupPolicies, DescribeSecurityGroupPolicies, DescribeSgSnapshotFileContent, ModifySecurityGroupPolicies, ReplaceSecurityGroupPolicies, ReplaceSecurityGroupPolicy.

Name	Type	Required	Description
AddressId	String	Yes	The ID of the IP address, such as <code>ipm-2uw6ujo6</code> .
AddressGroupId	String	Yes	The ID of the IP address group, such as <code>ipmg-2uw6ujo6</code> .

## AlgType

ALG protocol type

Used by actions: DescribeAddresses.

Name	Type	Description

Ftp	Boolean	Whether FTP ALG is enabled
Sip	Boolean	Whether SIP ALG is enabled

## AssistantCidr

Information about the secondary CIDR of the VPC.

Used by actions: CreateAssistantCidr, CreateVpc, DescribeAssistantCidr, DescribeVpcs, ModifyAssistantCidr.

Name	Type	Description
VpcId	String	The <code>ID</code> of a <code>VPC</code> instance, such as <code>vpc-6v2ht8q5</code> .
CidrBlock	String	The secondary CIDR, such as <code>172.16.0.0/16</code> .
AssistantType	Integer	The secondary CIDR block type. 0: common secondary CIDR block. 1: container secondary CIDR block. Default: 0.
SubnetSet	Array of <a href="#">Subnet</a>	Subnets divided by the secondary CIDR. Note: This field may return null, indicating that no valid values can be obtained.

## BackupPolicy

Details of scheduled snapshot policy

Used by actions: CreateSnapshotPolicies, DescribeSnapshotPolicies, ModifySnapshotPolicies.

Name	Type	Required	Description
BackupDay	String	Yes	Scheduled backup day. Values: <code>monday</code> , <code>tuesday</code> , <code>wednesday</code> , <code>thursday</code> , <code>friday</code> , <code>saturday</code> , <code>sunday</code> .
BackupTime	String	Yes	Backup point in time. Format: HH:mm:ss.

## BandwidthPackage

The structure of information of the bandwidth package.

Used by actions: DescribeBandwidthPackages.

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Name	Type	Description
BandwidthPackageId	String	The unique ID of the bandwidth package.
NetworkType	String	Bandwidth package type. Values: BGP , SINGLEISP , ANYCAST , SINGLEISP_CMCC , SINGLEISP_CTCC , SINGLEISP_CUCC
ChargeType	String	The bandwidth package billing mode. Valid values: 'TOP5_POSTPAID_BY_MONTH' and 'PERCENT95_POSTPAID_BY_MONTH'
BandwidthPackageName	String	The name of the bandwidth package.
CreatedTime	Timestamp ISO8601	The creation time of the bandwidth package, which follows the ISO8601 standard and uses UTC time in the format of YYYY-MM-DDThh:mm:ssZ .
Status	String	The status of the bandwidth package. Valid values: 'CREATING', 'CREATED', 'DELETING', and 'DELETED'.
ResourceSet	Array of <a href="#">Resource</a>	The resource information of the bandwidth package.
Bandwidth	Integer	The limit of the bandwidth package in Mbps. The value '-1' indicates there is no limit.

## BandwidthPackageBillBandwidth

Current billable usage of a pay-as-you-go bandwidth package

Used by actions: DescribeBandwidthPackageBillUsage.

Name	Type	Description
BandwidthUsage	Integer	Current billable usage, in Mbps

## BatchModifySnapshotPolicy

Modify attributes of a scheduled snapshot policy

Used by actions: ModifySnapshotPolicies.

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Name	Type	Required	Description
SnapshotPolicyId	String	Yes	Snapshot policy IDs
SnapshotPolicyName	String	No	Snapshot policy name
BackupPolicies	Array of <a href="#">BackupPolicy</a>	No	Backup policy
KeepTime	Integer	No	Snapshot retention period. Range: 1 to 365 days

## CCN

The CCN object

Used by actions: CreateCcn, DescribeCcns.

Name	Type	Description
CcnId	String	The unique ID of the CCN
CcnName	String	The name of the CCN
CcnDescription	String	The detailed information of the CCN
InstanceCount	Integer	The number of associated instances
CreateTime	Timestamp	The creation time
State	String	The instance status. 'ISOLATED': Being isolated (instance is in arrears and service is suspended). 'AVAILABLE': Operating.
QosLevel	String	The instance service quality. 'PT': Platinum, 'AU': Gold, 'AG': Silver.
InstanceChargeType	String	The billing method. POSTPAID indicates postpaid. Note: This field may return null, indicating that no valid values can be obtained.
BandwidthLimitType	String	The limit type. INTER_REGION_LIMIT is the limit between regions. OUTER_REGION_LIMIT is a region egress limit. Note: This field may return null, indicating no valid value.
TagSet	Array of <a href="#">Tag</a>	Tag key-value pairs.

RoutePriorityFlag	Boolean	Whether the CCN route priority feature is supported. Valid values: False: do not support; True: support.
RouteTableCount	Integer	Number of route tables associated with the instance. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RouteTableFlag	Boolean	Whether the multiple route tables feature is enabled for the CCN instance. Valid values: <code>False</code> : no; <code>True</code> : yes. Default value: <code>False</code> . Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
IsSecurityLock	Boolean	
RouteBroadcastPolicyFlag	Boolean	Status of CCN route broadcasting policy. Values: <code>False</code> (Disabled), <code>True</code> (Enabled) Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

## CcnAttachedInstance

The instance object associated with a CCN

Used by actions: DescribeCcnAttachedInstances.

Name	Type	Description
CcnId	String	The ID of a CCN instance.
InstanceType	String	The type of associated instances: <ul style="list-style-type: none"> <li><code>VPC</code> : VPC</li> <li><code>DIRECTCONNECT</code> : Direct Connect</li> <li><code>BMVPC</code> : BM VPC</li> </ul>
InstanceId	String	The ID of the associated instance.
InstanceName	String	The name of the associated instance.
InstanceRegion	String	The region to which the associated instance belongs, such as <code>ap-guangzhou</code> .
InstanceUin	String	The UIN (root account) to which the associated instance belongs.
CidrBlock	Array of	The CIDR of the associated instance.



	String	
State	String	<p>The status of the associated instance:</p> <ul style="list-style-type: none"> <li><code>PENDING</code> : In application</li> <li><code>ACTIVE</code> : Connected</li> <li><code>EXPIRED</code> : Expired</li> <li><code>REJECTED</code> : Rejected</li> <li><code>DELETED</code> : Deleted</li> <li><code>FAILED</code> : Failed (it will be asynchronously unbound after 2 hours)</li> <li><code>ATTACHING</code> : binding</li> <li><code>DETACHING</code> : Unbinding</li> <li><code>DETACHFAILED</code> : The unbinding failed (it will be asynchronously unbound after 2 hours)</li> </ul>
AttachedTime	Timestamp	Association Time.
CcnUin	String	The UIN (root account) to which the CCN belongs.
InstanceArea	String	General location of the associated instance, such as CHINA_MAINLAND.
Description	String	Description
RouteTableId	String	Route table ID Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RouteTableName	String	Route table name Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## CcnBandwidthInfo

The information of the cross-region bandwidth limit for CCN instances.

Used by actions: GetCcnRegionBandwidthLimits.

Name	Type	Description
CcnId	String	The CCN ID that the bandwidth belongs to. Note: this field may return null, indicating that no valid value was found.
CreatedTime	String	The creation time of the instance. Note: this field may return null, indicating that no valid value was found.

ExpiredTime	String	The expiration time of the instance. Note: this field may return null, indicating that no valid value was found.
RegionFlowControlId	String	The unique ID of the bandwidth instance. Note: this field may return null, indicating that no valid value was found.
RenewFlag	String	The billing flag. Note: this field may return null, indicating that no valid value was found.
CcnRegionBandwidthLimit	<a href="#">CcnRegionBandwidthLimit</a>	The information of the bandwidth regions and bandwidth caps. The parameter is only returned for the cross-region limit mode, but not for egress limit. Note: this field may return null, indicating that no valid value was found.
MarketId	String	Cloud marketplace instance ID. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
TagSet	Array of <a href="#">Tag</a>	The list of tags to be bound. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

## CcnInstance

The instance object associated with a CCN.

Used by actions: `AcceptAttachCcnInstances`, `AttachCcnInstances`, `DetachCcnInstances`, `ModifyCcnAttachedInstancesAttribute`, `RejectAttachCcnInstances`, `ResetAttachCcnInstances`.

Name	Type	Required	Description
InstanceId	String	Yes	The ID of the associated instance.
InstanceRegion	String	Yes	The region to which the associated instance ID belongs, such as <code>ap-guangzhou</code> .
InstanceType	String	No	The type of the associated instance. Available values are: <ul style="list-style-type: none"> <li><code>VPC</code> : VPC</li> <li><code>DIRECTCONNECT</code> : Direct Connect</li> </ul>

			<ul style="list-style-type: none"> <li><code>BMVPC</code> : BM VPC</li> </ul>
Description	String	No	Description
RouteTableId	String	No	The ID of the route table associated with the instance Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## CcnRegionBandwidthLimit

The outbound bandwidth cap of the CCN region

Used by actions: DescribeCcnRegionBandwidthLimits, GetCcnRegionBandwidthLimits, SetCcnRegionBandwidthLimits.

Name	Type	Required	Description
Region	String	Yes	Region, such as <code>ap-guangzhou</code>
BandwidthLimit	Integer	Yes	The outbound bandwidth cap. Units: Mbps
IsBm	Boolean	No	Whether it is a BM region. The default is <code>false</code> .
DstRegion	String	No	The target region, such as <code>ap-shanghai</code> Note: This field may return null, indicating no valid value.
DstIsBm	Boolean	No	Whether the target region is a BM region. The default is <code>false</code> .

## CcnRoute

The CCN routing policy object

Used by actions: DescribeCcnRoutes.

Name	Type	Description
RouteId	String	The ID of the routing policy
DestinationCidrBlock	String	Destination
InstanceType	String	The type of the next hop (associated instance type). Available types: VPC, DIRECTCONNECT
InstanceId	String	The next hop (associated instance)

InstanceName	String	The name of the next hop (associated instance name)
InstanceRegion	String	The region of the next hop (the region of the associated instance)
UpdateTime	Timestamp	Update Time
Enabled	Boolean	Whether the route is enabled
InstanceUin	String	The UIN (root account) to which the associated instance belongs
ExtraState	String	Additional status of the route
IsBgp	Boolean	Whether it is a dynamic route
RoutePriority	Integer	Route priority
InstanceExtraName	String	Next hop port name (associated instance's port name)

## CidrForCcn

Publishes the routing policy of the VPC subnet to CCN

Used by actions: CreateRouteTable, CreateRoutes, DescribeRouteTables.

Name	Type	Description
Cidr	String	Local CIDR block, including subnet CIDR block and secondary CIDR block Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
PublishedToVbc	Boolean	Whether the routing policy of the VPC subnet is published to CCN. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## ClassicLinkInstance

Classiclink instance

Used by actions: DescribeClassicLinkInstances.

Name	Type	Description
VpcId	String	VPC instance ID

InstanceId	String	The unique ID of the CVM instance
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## ConflictItem

Conflict resource items.

Used by actions: CheckAssistantCidr.

Name	Type	Description
ConflictId	String	Conflict resource ID
DestinationItem	String	Conflict destination resource

## ConflictSource

Conflict resource.

Used by actions: CheckAssistantCidr.

Name	Type	Description
ConflictSourceId	String	Conflict resource ID
SourceItem	String	Conflict resource
ConflictItemSet	Array of <a href="#">ConflictItem</a>	Conflict resource items

## CrossBorderCompliance

Compliance review request

Used by actions: DescribeCrossBorderCompliance.

Name	Type	Description
ServiceProvider	String	Service provider. Valid values: UNICOM .
ComplianceId	Integer	ID of compliance review request.
Company	String	Full company name.

UniformSocialCreditCode	String	Unified Social Credit Code.
LegalPerson	String	Legal person.
IssuingAuthority	String	Issuing authority.
BusinessLicense	String	Business license.
BusinessAddress	String	Business address.
PostCode	Integer	Zip code.
Manager	String	Operator.
ManagerId	String	Operator ID card number.
ManagerIdCard	String	Operator ID card.
ManagerAddress	String	Operator address.
ManagerTelephone	String	Operator phone number.
Email	String	Email.
ServiceHandlingForm	String	Service handling form.
AuthorizationLetter	String	Authorization letter.
SafetyCommitment	String	Information security commitment.
ServiceStartDate	Date	Service start date.
ServiceEndDate	Date	Service end date.
State	String	Status. Valid values: <code>PENDING</code> , <code>APPROVED</code> , and <code>DENY</code> .
CreatedTime	Timestamp	Creation time of the review form.

## CustomerGateway

### Customer Gateway

Used by actions: CreateCustomerGateway, DescribeCustomerGateways.

Name	Type	Description
CustomerGatewayId	String	The unique ID of the customer gateway

CustomerGatewayName	String	Gateway Name
IpAddress	String	Public network address
CreatedTime	String	The creation time.

## CustomerGatewayVendor

Customer gateway vendor information object.

Used by actions: DescribeCustomerGatewayVendors, DownloadCustomerGatewayConfiguration.

Name	Type	Required	Description
Platform	String	Yes	Platform.
SoftwareVersion	String	Yes	Software version.
VendorName	String	Yes	Vendor name.

## CvmInstance

A CVM instance.

Used by actions: DescribeVpcInstances.

Name	Type	Description
VpcId	String	VPC instance ID.
SubnetId	String	Subnet instance ID.
InstanceId	String	CVM instance ID.
InstanceName	String	CVM Name
InstanceState	String	CVM status.
CPU	Integer	Number of CPU cores in an instance (in core).
Memory	Integer	Instance's memory capacity. Unit: GB.
CreatedTime	String	The creation time.
InstanceType	String	Instance type.

EniLimit	Integer	Instance ENI quota (including primary ENIs).
EniIpLimit	Integer	Private IP quota for instance ENIs (including primary ENIs).
InstanceEniCount	Integer	The number of ENIs (including primary ENIs) bound to a instance.

## DefaultVpcSubnet

Default VPC and subnet

Used by actions: CreateDefaultVpc.

Name	Type	Description
VpcId	String	Default VPC ID
SubnetId	String	Default subnet ID
VpcName	String	Default VPC name
SubnetName	String	Default subnet name
CidrBlock	String	Default subnet IP range

## DestinationIpPortTranslationNatRule

The port forwarding rules of the NAT gateway

Used by actions: CreateNatGateway, CreateNatGatewayDestinationIpPortTranslationNatRule, DeleteNatGatewayDestinationIpPortTranslationNatRule, DescribeNatGateways, ModifyNatGatewayDestinationIpPortTranslationNatRule.

Name	Type	Description
IpProtocol	String	Network protocol. Valid values: <code>TCP</code> , <code>UDP</code> .
PublicIpAddress	String	EIP.
PublicPort	Integer	Public network port.
PrivateIpAddress	String	Private network address.
PrivatePort	Integer	Private network port.



Description	String	Description of NAT gateway forwarding rules.
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## DirectConnectGateway

Direct Connect gateway object.

Used by actions: CreateDirectConnectGateway, DescribeDirectConnectGateways.

Name	Type	Description
DirectConnectGatewayId	String	Direct Connect <code>ID</code> .
DirectConnectGatewayName	String	Direct Connect gateway name.
VpcId	String	The <code>ID</code> of the <code>VPC</code> instance associated with the Direct Connect gateway.
NetworkType	String	The associated network type: <ul style="list-style-type: none"> <li><code>VPC</code> - VPC</li> <li><code>CCN</code> - CCN</li> </ul>
NetworkInstanceId	String	The <code>ID</code> of the associated network instance: <ul style="list-style-type: none"> <li>When the NetworkType is <code>VPC</code> , this value is the VPC instance <code>ID</code></li> <li>When the NetworkType is <code>CCN</code> , this value is the CCN instance <code>ID</code></li> </ul>
GatewayType	String	Gateway type: <ul style="list-style-type: none"> <li><code>NORMAL</code> - Standard type. Note: CCN only supports the standard type</li> <li><code>NAT</code> - NAT type</li> </ul> <p>NAT type supports network address switch configuration. After the type is confirmed, it cannot be modified. A VPC can create one NAT-type Direct Connect gateway and one non-NAT-type Direct Connect gateway</p>
CreateTime	Timestamp	Creation Time.
DirectConnectGatewayIp	String	Direct Connect gateway IP.
CcnId	String	The <code>ID</code> of the <code>CCN</code> instance associated with the Direct Connect gateway.
CcnRouteType	String	The route-learning type of the CCN:

		<ul style="list-style-type: none"> <li><code>BGP</code> - Automatic learning.</li> <li><code>STATIC</code> - Static, that is, user-configured.</li> </ul>
EnableBGP	Boolean	Whether BGP is enabled.
EnableBGPCommunity	Boolean	Whether to enable BGP's <code>community</code> attribute. Valid values: enable, disable
NatGatewayId	String	ID of the NAT gateway bound. Note: this field may return <code>null</code> , indicating that no valid value was found.
VXLANSupport	Array of Boolean	Whether the direct connect gateway supports the VXLAN architecture. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ModeType	String	CCN route publishing mode. Valid values: <code>standard</code> and <code>exquisite</code> . Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
LocalZone	Boolean	Whether the direct connect gateway is for an edge zone. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Zone	String	Availability zone where the direct connect gateway resides. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
EnableFlowDetails	Integer	The status of gateway traffic monitoring 0: disable 1: enable Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
FlowDetailsUpdateTime	String	The last time when the gateway traffic monitoring is enabled/disabled Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
NewAfc	Integer	Whether gateway traffic monitoring is supported 0: No 1: Yes Note: this field may return <code>null</code> , indicating that no valid values can be found.

AccessNetworkType	String	Direct connect gateway access network types: <ul style="list-style-type: none"> <li>VXLAN - VXLAN type.</li> <li>MPLS - MPLS type.</li> <li>Hybrid - Hybrid type.</li> </ul> Note: this field may return <code>null</code> , indicating that no valid values can be found.
HaZoneList	Array of String	AZ list of direct connect gateway with cross-AZ placement groups Note: this field may return <code>null</code> , indicating that no valid values can be found.

## DirectConnectGatewayCcnRoute

The object of the CCN route (IDC IP range) of the Direct Connect gateway

Used by actions: CreateDirectConnectGatewayCcnRoutes, DescribeDirectConnectGatewayCcnRoutes, ReplaceDirectConnectGatewayCcnRoutes.

Name	Type	Description
RouteId	String	Route ID.
DestinationCidrBlock	String	IDC IP range.
ASPath	Array of String	The <code>AS-Path</code> attribute of <code>BGP</code> .
Description	String	Remarks
UpdateTime	String	Last updated time

## DirectConnectSubnet

IDC subnet information

Used by actions: RefreshDirectConnectGatewayRouteToNatGateway.

Name	Type	Description
DirectConnectGatewayId	String	The direct connect gateway ID.
CidrBlock	String	IDC subnet IP range

## EndPoint

Endpoint details

Used by actions: CreateVpcEndPoint, CreateVpcEndPointService, DescribeVpcEndPoint, DescribeVpcEndPointService.

Name	Type	Description
EndPointId	String	Endpoint ID
VpcId	String	VPC ID
SubnetId	String	Subnet ID
EndPointOwner	String	APP ID
EndPointName	String	Endpoint name
ServiceVpcId	String	Endpoint service VPC ID
ServiceVip	String	Endpoint service VIP
EndPointServiceId	String	Endpoint service ID
EndPointVip	String	Endpoint VIP
State	String	Endpoint status. Valid values: <code>ACTIVE</code> (available), <code>PENDING</code> (to be accepted), <code>ACCEPTING</code> (being accepted), <code>REJECTED</code> (rejected), and <code>FAILED</code> (failed).
CreateTime	String	Creation time
GroupSet	Array of String	ID list of security group instances bound with endpoints
ServiceName	String	Endpoint service name Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## EndPointService

Endpoint service

Used by actions: CreateVpcEndPointService, DescribeVpcEndPointService.

Name	Type	Description
EndPointServiceId	String	Endpoint service ID
VpcId	String	VPC ID
ServiceOwner	String	APP ID
ServiceName	String	Endpoint service name
ServiceVip	String	Real server VIP
ServiceInstanceId	String	Real server ID in the format of <code>lb-xxx</code> .
AutoAcceptFlag	Boolean	Whether to automatically accept
EndPointCount	Integer	Number of associated endpoints Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
EndPointSet	Array of <a href="#">EndPoint</a>	Array of endpoints Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
CreateTime	String	Creation time
ServiceType	String	Mounted PaaS service type. Values: <code>CLB</code> , <code>CDB</code> , <code>CRS</code>

## Filter

Filter

Used by actions: DescribeAddressTemplateGroups, DescribeAddressTemplates, DescribeAddresses, DescribeAssistantCidr, DescribeBandwidthPackageResources, DescribeBandwidthPackages, DescribeCcnAttachedInstances, DescribeCcnRoutes, DescribeCcns, DescribeCustomerGateways, DescribeDirectConnectGateways, DescribeFlowLogs, DescribeHaVips, DescribeLocalGateway, DescribeNatGatewayDestinationIpPortTranslationNatRules, DescribeNatGatewaySourceIpTranslationNatRules, DescribeNatGateways, DescribeNetDetectStates, DescribeNetDetects, DescribeNetworkAclQuintupleEntries, DescribeNetworkAcls, DescribeNetworkInterfaces, DescribeRouteTables, DescribeSecurityGroupPolicies, DescribeSecurityGroups, DescribeServiceTemplateGroups, DescribeServiceTemplates, DescribeSnapshotAttachedInstances, DescribeSnapshotPolicies, DescribeSubnets, DescribeTrafficPackages,

DescribeVpcEndPoint, DescribeVpcEndPointService, DescribeVpcEndPointServiceWhiteList, DescribeVpcInstances, DescribeVpcs, DescribeVpnConnections, DescribeVpnGatewayRoutes, GetCcnRegionBandwidthLimits.

Name	Type	Required	Description
Name	String	Yes	The attribute name. If more than one Filter exists, the logical relation between these Filters is <code>AND</code> .
Values	Array of String	Yes	Attribute value. If multiple values exist in one filter, the logical relationship between these values is <code>OR</code> . For a <code>bool</code> parameter, the valid values include <code>TRUE</code> and <code>FALSE</code> .

## FilterObject

Filter key-value pair

Used by actions: DescribeClassicLinkInstances, DescribeVpnGateways.

Name	Type	Required	Description
Name	String	Yes	The attribute name. If more than one Filter exists, the logical relation between these Filters is <code>AND</code> .
Values	Array of String	Yes	The attribute value. If there are multiple Values for one Filter, the logical relation between these Values under the same Filter is <code>OR</code> .

## FlowLog

Flow Log

Used by actions: CreateFlowLog, DescribeFlowLog, DescribeFlowLogs.

Name	Type	Description
VpcId	String	ID of the VPC instance.
FlowLogId	String	The unique ID of the flow log.
FlowLogName	String	The name of the flow log instance.
ResourceType	String	The type of resource associated with the flow log. Valid values: <code>VPC</code> , <code>SUBNET</code> , <code>NETWORKINTERFACE</code> , <code>CCN</code> , <code>NAT</code> , and

		DCG .
ResourceId	String	The unique ID of the resource
TrafficType	String	Type of flow logs to be collected. Valid values: <code>ACCEPT</code> , <code>REJECT</code> and <code>ALL</code> .
CloudLogId	String	The storage ID of the flow log
CloudLogState	String	Flow log storage ID status.
FlowLogDescription	String	The flow log description.
CreatedTime	String	The creation time of the flow log.
TagSet	Array of <a href="#">Tag</a>	Tag list, such as [{"Key": "city", "Value": "shanghai"}].
Enable	Boolean	Whether to enable. <code>true</code> : yes; <code>false</code> : no.
StorageType	String	Consumer end types: <code>cls</code> and <code>ckafka</code> Note: this field may return <code>null</code> , indicating that no valid value can be found.
FlowLogStorage	<a href="#">FlowLogStorage</a>	Information of the consumer, which is returned when the consumer type is <code>ckafka</code> . Note: this field may return <code>null</code> , indicating that no valid value can be found.
CloudLogRegion	String	The region corresponding to the flow log storage ID. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

## FlowLogStorage

Flow log storage information

Used by actions: CreateFlowLog, DescribeFlowLog, DescribeFlowLogs.

Name	Type	Required	Description
StorageId	String	Yes	Storage instance ID, which is required when <code>StorageType</code> is <code>ckafka</code> .
StorageTopic	String	No	Topic ID, which is required when <code>StorageType</code> is <code>ckafka</code> . Note: this field may return <code>null</code> , indicating that no valid value can be found.

## GatewayFlowMonitorDetail

The gateway traffic monitoring details

Used by actions: DescribeGatewayFlowMonitorDetail.

Name	Type	Description
PrivateIpAddress	String	Origin IP .
InPkg	Integer	Inbound packets.
OutPkg	Integer	Outbound packets.
InTraffic	Integer	Inbound traffic, in Byte.
OutTraffic	Integer	Outbound traffic, in Byte.

## GatewayQos

Information of the gateway bandwidth limit

Used by actions: DescribeGatewayFlowQos.

Name	Type	Description
VpcId	String	VPC instance ID.
IpAddress	String	CVM Private IP.
Bandwidth	Integer	Bandwidth limit value.
CreateTime	String	Creation time.

## HaVip

HAVIP description information

Used by actions: CreateHaVip, DescribeHaVips.

Name	Type	Description
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HaVipId	String	The <code>ID</code> of the <code>HAVIP</code> . This is the unique identifier of the <code>HAVIP</code> .
HaVipName	String	The name of the <code>HAVIP</code> .
Vip	String	The virtual IP address.
VpcId	String	The <code>ID</code> of the VPC to which the <code>HAVIP</code> belongs.
SubnetId	String	The <code>ID</code> of the subnet to which the <code>HAVIP</code> belongs.
NetworkInterfaceId	String	The <code>ID</code> of the ENI associated with the <code>HAVIP</code> .
InstanceId	String	The <code>ID</code> of the bound instance.
AddressIp	String	Bound <code>EIP</code> .
State	String	Status: <ul style="list-style-type: none"> <li><code>AVAILABLE</code> : Operating</li> <li><code>UNBIND</code> : Not bound</li> </ul>
CreatedTime	Timestamp	Creation Time.
Business	String	Identifier for businesses that use HAVIP.

## IKEOptionsSpecification

Internet Key Exchange (IKE) configuration. IKE has a self-protection mechanism. The network security protocol is configured by the user.

Used by actions: CreateVpnConnection, DescribeVpnConnections, ModifyVpnConnectionAttribute.

Name	Type	Required	Description
PropoEncryAlgorithm	String	No	Encryption algorithm. Valid values: <code>3DES-CBC</code> , <code>AES-CBC-128</code> , <code>AES-CBS-192</code> , <code>AES-CBC-256</code> , <code>DES-CBC</code> , and <code>SM4</code> ; default value: <code>3DES-CBC</code> .
PropoAuthenAlgorithm	String	No	Authentication algorithm. Valid values: <code>MD5</code> , <code>SHA1</code> and <code>SHA-256</code> ; default value: <code>MD5</code> .
ExchangeMode	String	No	Negotiation mode. Available values: 'AGGRESSIVE' and 'MAIN'. Default is MAIN.
LocalIdentity	String	No	Type of local identity. Available values: 'ADDRESS' and 'FQDN'. Default is ADDRESS.

RemoteIdentity	String	No	Type of remote identity. Available values: 'ADDRESS' and 'FQDN'. Default is ADDRESS.
LocalAddress	String	No	Local identity. When ADDRESS is selected for LocalIdentity, LocalAddress is required. The default LocalAddress is the public IP of the VPN gateway.
RemoteAddress	String	No	Remote identity. When ADDRESS is selected for RemoteIdentity, RemoteAddress is required.
LocalFqdnName	String	No	Local identity. When FQDN is selected for LocalIdentity, LocalFqdnName is required.
RemoteFqdnName	String	No	Remote identity. When FQDN is selected for RemoteIdentity, RemoteFqdnName is required.
DhGroupName	String	No	DH group. Specify the DH group used for exchanging the key via IKE. Available values: 'GROUP1', 'GROUP2', 'GROUP5', 'GROUP14', and 'GROUP24'.
IKESaLifetimeSeconds	Integer	No	IKE SA lifetime (in sec). Value range: 60-604800
IKEVersion	String	No	IKE version

## IPSECOptionsSpecification

IPSec configuration. The IPSec secure session configuration is provided by Tencent Cloud.

Used by actions: CreateVpnConnection, DescribeVpnConnections, ModifyVpnConnectionAttribute.

Name	Type	Required	Description
EncryptAlgorithm	String	No	Encryption algorithm. Valid values: 3DES-CBC , AES-CBC-128 , AES-CBC-192 , AES-CBC-256 , DES-CBC , SM4 , and NULL ; default value: AES-CBC-128 .
IntegrityAlgorithm	String	No	Authentication algorithm. Valid values: MD5 , SHA1 and SHA-256 ; default value: SHA1 .
IPSECSaLifetimeSeconds	Integer	No	IPsec SA lifetime (in sec). Value range: 180-604800
PfsDhGroup	String	No	PFS. Available value: 'NULL', 'DH-GROUP1', 'DH-GROUP2', 'DH-GROUP5', 'DH-GROUP14', and 'DH-GROUP24'. Default is NULL.

IPSECSaLifetimeTraffic	Integer	No	IPsec SA lifetime (in KB). Value range: 2560-604800
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## InstanceChargePrepaid

Prepaid (monthly subscription) billing object.

Used by actions: CreateVpnGateway, InquiryPriceRenewVpnGateway, RenewVpnGateway.

Name	Type	Required	Description
Period	Integer	Yes	Purchased usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, 36].
RenewFlag	String	No	Auto-renewal ID. Value range: NOTIFY_AND_AUTO_RENEW: notify expiry and renew automatically, NOTIFY_AND_MANUAL_RENEW: notify expiry but do not renew automatically. The default is NOTIFY_AND_MANUAL_RENEW

## InstanceStatistic

Statistics used to describe the instance

Used by actions: DescribeSecurityGroupAssociationStatistics.

Name	Type	Description
InstanceType	String	Type of instance
InstanceCount	Integer	Number of instances

## IpAddressStates

Information of resources bound with the queried IPs

Used by actions: DescribeUsedIpAddress.

Name	Type	Description
VpcId	String	VPC instance ID
SubnetId	String	Subnet instance ID

IpAddress	String	IP address
ResourceType	String	Resource type
ResourceId	String	Resource ID

## IpField

IP information to be queried

Used by actions: DescribeIpGeolocationInfos.

Name	Type	Required	Description
Country	Boolean	No	Country/region of the IP
Province	Boolean	No	Province/municipality/state of the IP
City	Boolean	No	City of the IP
Region	Boolean	No	City district of the IP
Isp	Boolean	No	Access ISP field
AsName	Boolean	No	ISP backbone network's AS field
AsId	Boolean	No	Backbone AS ID
Comment	Boolean	No	Comment

## IpGeolocationInfo

IP location

Used by actions: DescribeIpGeolocationInfos.

Name	Type	Description
Country	String	Country/region Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Province	String	Province- or municipality-level administrative region Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

City	String	Municipal administrative region Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Region	String	Urban area Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Isp	String	Access ISP Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
AsName	String	ISP backbone network's AS name Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
AsId	String	ISP backbone network's AS ID Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Comment	String	Comment. The APN value of mobile users is entered currently. If there is no APN attribute, this is <code>null</code> . Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
AddressIp	String	IP address Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## Ipv6Address

`IPv6` address information.

Used by actions: AssignIpv6Addresses, CreateAndAttachNetworkInterface, CreateNetworkInterface, DescribeNetworkInterfaces, ModifyIpv6AddressesAttribute, UnassignIpv6Addresses.

Name	Type	Required	Description
Address	String	Yes	<code>IPv6</code> address, such as <code>3402:4e00:20:100:0:8cd9:2a67:71f3</code>
Primary	Boolean	No	Whether it is a primary <code>IP</code> .
AddressId	String	No	The <code>ID</code> of the <code>EIP</code> instance, such as <code>eip-hxlqja90</code> .
Description	String	No	Message description
IsWanIpBlocked	Boolean	No	Whether the public IP is blocked.
State	String	No	<code>IPv6</code> address status: <ul style="list-style-type: none"> <li><code>PENDING</code> : Creating</li> <li><code>MIGRATING</code> : Migrating</li> </ul>

- DELETING : Deleting
- AVAILABLE : Available

## Ipv6SubnetCidrBlock

IPv6 subnet IP range object.

Used by actions: AssignIpv6SubnetCidrBlock, UnassignIpv6SubnetCidrBlock.

Name	Type	Required	Description
SubnetId	String	Yes	The ID of the subnet instance, such as <code>subnet-pxir56ns</code> .
Ipv6CidrBlock	String	No	The IPv6 subnet IP range, such as <code>3402:4e00:20:1001::/64</code>

## ItemPrice

The pricing information of a single billing item

Used by actions: InquiryPriceRenewVpnGateway, InquiryPriceResetVpnGatewayInternetMaxBandwidth.

Name	Type	Description
UnitPrice	Float	The pay-as-you-go billing method. Unit: CNY.
ChargeUnit	String	Pay-as-you-go billing method. Value Range: HOUR: Indicates billing by the hour. Scenarios using this hourly billing unit include: Instances postpaid on an hourly basis (POSTPAID_BY_HOUR), and bandwidth postpaid on an hourly basis (BANDWIDTH_POSTPAID_BY_HOUR). GB: Indicates billing on a per-GB basis. Scenarios using this billing unit include: Traffic postpaid on an hourly basis (TRAFFIC_POSTPAID_BY_HOUR).
OriginalPrice	Float	Original price of the prepaid product. Unit: CNY.
DiscountPrice	Float	Discount price of the prepaid product. Unit: CNY.

## LocalGateway

Local gateway information

Used by actions: CreateLocalGateway, DescribeLocalGateway.

Name	Type	Description
Cdclid	String	CDC instance ID
VpcId	String	VPC instance ID
UniqLocalGwId	String	Local gateway instance ID
LocalGatewayName	String	Local gateway name
LocalGwIp	String	Local gateway IP
CreateTime	String	Creation time of the local gateway

## NatDirectConnectGatewayRoute

Query the returned object of a NAT route

Used by actions: DescribeNatGatewayDirectConnectGatewayRoute.

Name	Type	Description
DestinationCidrBlock	String	The <code>IPv4</code> <code>CIDR</code> of the subnet.
GatewayType	String	The type of the next-hop gateway. Supported types: <code>DIRECTCONNECT</code> : Direct connect gateway
GatewayId	String	ID of the next-hop gateway
CreateTime	Timestamp	The creation time of the route
UpdateTime	Timestamp	The update time of the route

## NatGateway

NAT gateway object.

Used by actions: CreateNatGateway, DescribeNatGateways.

Name	Type	Description
NatGatewayId	String	NAT gateway ID.

NatGatewayName	String	NAT gateway name.
CreatedTime	String	NAT gateway creation time.
State	String	The status of the NAT gateway. <b>PENDING</b> : Being created, <b>DELETING</b> : Being deleted, <b>AVAILABLE</b> : Running, <b>UPDATING</b> : Being upgraded, <b>FAILED</b> : Failed.
InternetMaxBandwidthOut	Integer	The maximum outbound bandwidth of the gateway. Unit: Mbps.
MaxConcurrentConnection	Integer	The concurrent connections cap of the gateway.
PublicIpAddressSet	Array of <a href="#">NatGatewayAddress</a>	The public IP object array of the bound NAT gateway.
NetworkState	String	The NAT gateway status. <b>AVAILABLE</b> : Operating, <b>UNAVAILABLE</b> : Unavailable, <b>INSUFFICIENT</b> : Service suspended due to account overdue.
DestinationIpPortTranslationNatRuleSet	Array of <a href="#">DestinationIpPortTranslationNatRule</a>	The port forwarding rules of the NAT gateway.
VpcId	String	VPC instance ID.
Zone	String	The availability zone in which the NAT gateway is located.
DirectConnectGatewayIds	Array of String	ID of the direct connect gateway bound.



		Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
SubnetId	String	Subnet ID. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
TagSet	Array of <a href="#">Tag</a>	Tag key-value pairs.
SecurityGroupSet	Array of String	The list of the security groups bound to the NAT Gateway Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
SourceIpTranslationNatRuleSet	Array of <a href="#">SourceIpTranslationNatRule</a>	SNAT forwarding rule of the NAT gateway. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
IsExclusive	Boolean	Whether the NAT gateway is dedicated. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ExclusiveGatewayBandwidth	Integer	Bandwidth of the gateway cluster where the dedicated NAT Gateway resides. Unit: Mbps. This field does not exist when the <code>IsExclusive</code> field is set to <code>false</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

RestrictState	String	Whether the NAT gateway is blocked. Values: <code>NORMAL</code> , <code>RESTRICTED</code> Note: This field may return null, indicating that no valid values can be obtained.
NatProductVersion	Integer	NAT gateway major version. <code>1</code> : Classic, <code>2</code> : Standard Note: This field may return null, indicating that no valid values can be obtained.

## NatGatewayAddress

The EIP bound to the NAT gateway

Used by actions: CreateNatGateway, DescribeNatGateways.

Name	Type	Description
AddressId	String	The unique ID of the Elastic IP (EIP), such as <code>eip-11112222</code> .
PublicIpAddress	String	The public IP address, such as <code>123.121.34.33</code> .
IsBlocked	Boolean	The block status of the resource. <code>true</code> indicates the EIP is blocked. <code>false</code> indicates that the EIP is not blocked.

## NatGatewayDestinationIpPortTranslationNatRule

The port forwarding rules of the NAT gateway

Used by actions: DescribeNatGatewayDestinationIpPortTranslationNatRules.

Name	Type	Description
IpProtocol	String	Network protocol. Available choices: <code>TCP</code> , <code>UDP</code> .

PublicIpAddress	String	EIP.
PublicPort	Integer	Public port.
PrivateIpAddress	String	Private IP.
PrivatePort	Integer	Private port.
Description	String	NAT gateway forwarding rule description.
NatGatewayId	String	NAT gateway ID. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
VpcId	String	VPC ID. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
CreatedTime	String	The creation time of the NAT gateway forwarding rule. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

## NetDetect

The network detection object.

Used by actions: CreateNetDetect, DescribeNetDetects.

Name	Type	Description
VpcId	String	The ID of a VPC instance, such as <code>vpc-12345678</code> .
VpcName	String	The name of a VPC instance.
SubnetId	String	The ID of a subnet instance, such as <code>subnet-12345678</code> .
SubnetName	String	The name of a subnet instance.
NetDetectId	String	The ID of a network detection instance, such as <code>netd-12345678</code> .
NetDetectName	String	The name of a network detection instance. The maximum length is 60 characters.
DetectDestinationIp	Array of String	The array of detection destination IPv4 addresses, which contains at most two IP addresses.

DetectSourceIp	Array of String	The array of detection source IPv4 addresses automatically allocated by the system. The length is 2.
NextHopType	String	Type of the next hop. Currently supported types are: VPN: VPN gateway; <code>DIRECTCONNECT</code> : Direct connect gateway; <code>PEERCONNECTION</code> : Peering connection; <code>NAT</code> : NAT gateway; <code>NORMAL_CVM</code> : CVM instance; <code>CCN</code> : CCN instance; <code>NONEXTHOP</code> : No next hop.
NextHopDestination	String	ID of the next-hop gateway. If NextHopType is set to VPN, the value of this parameter is the VPN gateway ID, such as vpngw-12345678. <code>NextHopType = DIRECTCONNECT</code> : Direct connect gateway ID, such as dcg-12345678 . <code>NextHopType = PEERCONNECTION</code> : Peering connection ID, such as pcx-12345678 . <code>NextHopType = NAT</code> : NAT gateway ID, such as nat-12345678 . If NextHopType is set to NORMAL_CVM, the value of this parameter is the IPv4 address of the CVM, such as 10.0.0.12. <code>NextHopType = CCN</code> : CCN instance ID, such as ccn-12345678 . <code>NextHopType = NONEXTHOP</code> : No next hop.
NextHopName	String	The name of the next-hop gateway. Note: This field may return null, indicating that no valid values can be obtained.
NetDetectDescription	String	Network detection description. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Timestamp	The creation time. Note: This field may return null, indicating that no valid values can be obtained.

## NetDetectIpState

The verification result of the network detection destination IP address.

Used by actions: CheckNetDetectState, DescribeNetDetectStates.

Name	Type	Description
DetectDestinationIp	String	The destination IPv4 address of network detection.
State	Integer	The detection result. 0: successful; -1: no packet loss occurred during routing; -2: packet loss occurred when outbound traffic is blocked by the ACL; -3: packet loss occurred when inbound traffic is blocked by the ACL; -4: other errors.
Delay	Integer	The latency. Unit: ms.
PacketLossRate	Integer	The packet loss rate.

## NetDetectState

The network detection verification result.

Used by actions: DescribeNetDetectStates.

Name	Type	Description
NetDetectId	String	The ID of a network detection instance, such as netd-12345678.
NetDetectIpStateSet	Array of <a href="#">NetDetectIpState</a>	The array of network detection destination IP verification results.

## NetworkAcl

Network ACL

Used by actions: CreateNetworkAcl, DescribeNetworkAcls.

Name	Type	Description
VpcId	String	<code>ID</code> of the <code>VPC</code> instance.
NetworkAclId	String	<code>ID</code> of the network ACL instance.
NetworkAclName	String	Name of the network ACL. The maximum length is 60 bytes.

CreatedTime	String	Creation time.
SubnetSet	Array of <a href="#">Subnet</a>	Array of subnets associated with the network ACL.
IngressEntries	Array of <a href="#">NetworkAclEntry</a>	Inbound rules of the network ACL.
EgressEntries	Array of <a href="#">NetworkAclEntry</a>	Outbound rules of the network ACL.
NetworkAclType	String	Network ACL type. Valid values: <code>TRIPLE</code> and <code>QUINTUPLE</code> .
TagSet	Array of <a href="#">Tag</a>	Tag key-value pairs

## NetworkAclEntry

Network ACL rules.

Used by actions: `CreateNetworkAcl`, `DescribeNetworkAcls`, `ModifyNetworkAclEntries`.

Name	Type	Required	Description
ModifyTime	String	Yes	Modification time.
Protocol	String	No	Protocol. Valid values: TCP, UDP, ICMP, ALL.
Port	String	No	Port. Valid values: all, single port, range. When Protocol takes the value <code>ALL</code> or <code>ICMP</code> , Port cannot be specified.
CidrBlock	String	No	IP range or IP address (mutually exclusive).
Ipv6CidrBlock	String	No	CIDR block or IPv6 address (mutually exclusive).
Action	String	No	ACCEPT or DROP.
Description	String	No	Rule description, which is up to 100 bytes.

## NetworkAclEntrySet

Network ACL rule set

Used by actions: `ModifyNetworkAclEntries`.

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Name	Type	Required	Description
Ingress	Array of <a href="#">NetworkAclEntry</a>	No	Inbound rules.
Egress	Array of <a href="#">NetworkAclEntry</a>	No	Outbound rules.

## NetworkAclQuintupleEntries

Network ACL quintuple

Used by actions: [CreateNetworkAclQuintupleEntries](#), [DeleteNetworkAclQuintupleEntries](#), [ModifyNetworkAclEntries](#), [ModifyNetworkAclQuintupleEntries](#).

Name	Type	Required	Description
Ingress	Array of <a href="#">NetworkAclQuintupleEntry</a>	No	Network ACL quintuple inbound rule.
Egress	Array of <a href="#">NetworkAclQuintupleEntry</a>	No	Network ACL quintuple outbound rule.

## NetworkAclQuintupleEntry

Network ACL quintuple entry

Used by actions: [CreateNetworkAclQuintupleEntries](#), [DeleteNetworkAclQuintupleEntries](#), [DescribeNetworkAclQuintupleEntries](#), [ModifyNetworkAclEntries](#), [ModifyNetworkAclQuintupleEntries](#).

Name	Type	Required	Description
Protocol	String	No	Protocol. Valid values: <code>TCP</code> , <code>UDP</code> , <code>ICMP</code> , <code>ALL</code> .
Description	String	No	Description
SourcePort	String	No	Source port. Valid values: all, single port, range. When <code>Protocol</code> is <code>ALL</code> or <code>ICMP</code> , <code>Port</code> cannot be specified.
SourceCidr	String	No	Source CIDR block.
DestinationPort	String	No	Destination port. Valid values: all, single port, range. When <code>Protocol</code> is <code>ALL</code> or <code>ICMP</code> , <code>Port</code> cannot be specified.

DestinationCidr	String	No	Destination CIDR block.
Action	String	No	Action. Valid values: <code>ACCEPT</code> and <code>DROP</code> .
NetworkAclQuintupleEntryId	String	No	Unique ID of a network ACL entry.
Priority	Integer	No	Priority. <code>1</code> refers to the highest priority.
CreateTime	String	No	Creation time. It's returned by <code>DescribeNetworkAclQuintupleEntries</code> .
NetworkAclDirection	String	No	Direction of the rule. It's returned by <code>DescribeNetworkAclQuintupleEntries</code> . Valid values: <code>INGRESS</code> and <code>EGRESS</code> .

## NetworkInterface

### ENI

Used by actions: `CreateAndAttachNetworkInterface`, `CreateNetworkInterface`, `DescribeNetworkInterfaces`.

Name	Type	Required	Description
NetworkInterfaceId	String	No	The ID of the ENI instance, such as <code>eni-f1xjkw1b</code> .
NetworkInterfaceName	String	No	ENI Name
NetworkInterfaceDescription	String	No	ENI description.
SubnetId	String	No	Subnet instance ID.
VpcId	String	No	VPC instance ID.
GroupSet	Array of String	No	Bound security group.
Primary	Boolean	No	Whether it is the primary ENI.
MacAddress	String	No	MAC address
State	String	No	ENI status: <ul style="list-style-type: none"> <li><code>PENDING</code> : Creating</li> <li><code>AVAILABLE</code> : Available</li> <li><code>ATTACHING</code> : Binding</li> <li><code>DETACHING</code> : Unbinding</li> <li><code>DELETING</code> : Deleting</li> </ul>



PrivateIpAddressSet	Array of <a href="#">PrivateIpAddressSpecification</a>	No	Private IP information.
Attachment	<a href="#">NetworkInterfaceAttachment</a>	No	Bound CVM object. Note: This field may return null, indicating no valid value.
Zone	String	No	Availability Zone.
CreatedTime	String	No	Creation Time.
Ipv6AddressSet	Array of <a href="#">Ipv6Address</a>	No	The <code>IPv6</code> address list.
TagSet	Array of <a href="#">Tag</a>	No	Tag key-value pair.
EniType	Integer	No	The ENI type. 0: ENI. 1: EVM ENI.
Business	String	No	Type of the resource bound with an ENI. Valid values: <code>cvm</code> , <code>eks</code> . Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Cdclid	String	No	ID of the CDC instance associated with the ENI Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
AttachType	Integer	No	ENI type. Valid values: <code>0</code> (standard); <code>1</code> (extension). Default value: <code>0</code> . Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ResourceId	String	No	The ID of resource to retain the ENI primary IP. It's used as the request parameters for deleting an ENI. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
QosLevel	String	No	Service level

			<ul style="list-style-type: none"> <li><code>DEFAULT</code> : Default level</li> <li><code>PT</code> : Gold</li> <li><code>AU</code> : Silver</li> <li><code>AG</code> : Bronze</li> </ul> <p>Note: This field may return <code>null</code> , indicating that no valid values can be obtained.</p>
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## NetworkInterfaceAttachment

Binding relationship of the ENI

Used by actions: `CreateAndAttachNetworkInterface`, `CreateNetworkInterface`, `DescribeNetworkInterfaces`.

Name	Type	Description
<code>InstanceId</code>	String	CVM instance ID.
<code>DeviceIndex</code>	Integer	The serial number of ENI in the CVM instance.
<code>InstanceAccountId</code>	String	The account information of the CVM owner.
<code>AttachTime</code>	String	Binding time

## Price

Price

Used by actions: `InquiryPriceRenewVpnGateway`, `InquiryPriceResetVpnGatewayInternetMaxBandwidth`.

Name	Type	Description
<code>InstancePrice</code>	<a href="#">ItemPrice</a>	Instance price.
<code>BandwidthPrice</code>	<a href="#">ItemPrice</a>	Bandwidth price

## PrivateIpAddressSpecification

Private IP information

Used by actions: AssignPrivateIpAddresses, CreateAndAttachNetworkInterface, CreateNetworkInterface, DescribeNetworkInterfaces, ModifyPrivateIpAddressesAttribute, UnassignPrivateIpAddresses.

Name	Type	Required	Description
PrivateIpAddress	String	Yes	Private IP address.
Primary	Boolean	No	Whether it is a primary IP.
PublicIpAddress	String	No	Public IP address.
AddressId	String	No	EIP instance ID, such as <code>eip-11112222</code> .
Description	String	No	Private IP description.
IsWanIpBlocked	Boolean	No	Whether the public IP is blocked.
State	String	No	IP status: PENDING: Creating MIGRATING: Migrating DELETING: Deleting AVAILABLE: Available
QosLevel	String	No	IP u200dservice level. Values: PT <code>u200d(Gold)</code> , <code>AU u200d(Silver)</code> , <code>AG (Bronze)</code> and <code>DEFAULT (Default)</code> .

## Quota

Quota description information

Used by actions: DescribeAddressQuota, DescribeBandwidthPackageQuota.

Name	Type	Description
QuotaId	String	Quota name. Value range: <ul style="list-style-type: none"> <li><code>TOTAL_EIP_QUOTA</code>: EIP quota under the user's current region</li> <li><code>DAILY_EIP_APPLY</code>: Number of EIP applications submitted daily under the user's current region</li> <li><code>DAILY_PUBLIC_IP_ASSIGN</code>: Number of public IP reassignments under the user's current region.</li> </ul>
QuotaCurrent	Integer	Current count
QuotaLimit	Integer	Quota

## ReferredSecurityGroup

Referred security groups

Used by actions: DescribeSecurityGroupReferences.

Name	Type	Description
SecurityGroupId	String	Security group instance ID.
ReferredSecurityGroupIds	Array of String	IDs of all referred security group instances.

## Resource

The structure of information of the bandwidth package.

Used by actions: DescribeBandwidthPackageResources, DescribeBandwidthPackages.

Name	Type	Description
ResourceType	String	The bandwidth package resource type, including <code>Address</code> , and <code>LoadBalance</code> .
ResourceId	String	The bandwidth package ID, such as <code>eip-xxxx</code> and <code>lb-xxxx</code> .
AddressIp	String	The bandwidth package resource IP.

## ResourceDashboard

VPC resource dashboard (all resource counts)

Used by actions: DescribeVpcResourceDashboard.

Name	Type	Description
VpcId	String	VPC instance ID, such as <code>vpc-bq4bzxpj</code> .
SubnetId	String	Subnet instance ID, such as <code>subnet-bthucmmy</code> .
Classiclink	Integer	Classiclink.
Dcg	Integer	Direct Connect gateway.

Pcx	Integer	Peering connection.
Ip	Integer	Total number of used IPs except for CVM IP, EIP and network probe IP. The three IP types will be independently counted.
Nat	Integer	NAT gateway.
Vpngw	Integer	VPN gateway.
FlowLog	Integer	Flow log.
NetworkDetect	Integer	Network probing.
NetworkACL	Integer	Network ACL.
CVM	Integer	Cloud Virtual Machine.
LB	Integer	Load balancer.
CDB	Integer	Relational database.
Cmem	Integer	TencentDB for Memcached.
CTSDB	Integer	Cloud time series database.
MariaDB	Integer	TencentDB for MariaDB (TDSQL).
SQLServer	Integer	TencentDB for SQL Server.
Postgres	Integer	TencentDB for PostgreSQL.
NAS	Integer	Network attached storage.
Greenplumn	Integer	Snova data warehouse.
Ckafka	Integer	Cloud Kafka (CKafka).
Grocery	Integer	Grocery.
HSM	Integer	Data encryption service.
Tcaplus	Integer	Game storage - Tcaplus.
Cnas	Integer	Cnas.
TiDB	Integer	HTAP database - TiDB.
Emr	Integer	EMR cluster.
SEAL	Integer	SEAL.

CFS	Integer	Cloud file storage - CFS.
Oracle	Integer	Oracle.
ElasticSearch	Integer	ElasticSearch Service.
TBaaS	Integer	Blockchain service.
Itop	Integer	Itop.
DBAudit	Integer	Cloud database audit.
CynosDBPostgres	Integer	Enterprise TencentDB - CynosDB for Postgres.
Redis	Integer	TencentDB for Redis.
MongoDB	Integer	TencentDB for MongoDB.
DCDB	Integer	A distributed cloud database - TencentDB for TDSQL.
CynosDBMySQL	Integer	An enterprise-grade TencentDB - CynosDB for MySQL.
Subnet	Integer	Subnets.
RouteTable	Integer	Route table.

## ResourceStatistics

Information of associated resources

Used by actions: DescribeSubnetResourceDashboard.

Name	Type	Description
VpId	String	VPC instance ID, such as vpc-f1xjkw1b.
SubnetId	String	Subnet instance ID, such as subnet-bthucmmy .
Ip	Integer	The total number of used IP addresses.
ResourceStatisticsItemSet	Array of <a href="#">ResourceStatisticsItem</a>	Information of associated resources

## ResourceStatisticsItem

Resource statistical items

Used by actions: DescribeSubnetResourceDashboard.

Name	Type	Description
ResourceType	String	Resource type, such as CVM, ENI
ResourceName	String	Resource name.
ResourceCount	Integer	Number of resources

## Route

Routing policy object

Used by actions: CreateRouteTable, CreateRoutes, DeleteRoutes, DescribeRouteTables, ReplaceRoutes, ResetRoutes.

Name	Type	Required	Description
DestinationCidrBlock	String	Yes	Destination IP range, such as 112.20.51.0/24. Values cannot be in the VPC IP range.
GatewayType	String	Yes	Type of the next hop. Valid values: CVM : public gateway CVM; VPN : VPN gateway; DIRECTCONNECT : direct connect gateway; PEERCONNECTION : peering connection; HAVIP : HAVIP; NAT : NAT Gateway; NORMAL_CVM : normal CVM; EIP : public IP address of the CVM; LOCAL_GATEWAY : local gateway.
GatewayId	String	Yes	Next hop address. You simply need to specify the gateway ID of a different next hop type, and the system will automatically match the next hop address. <b>Note:</b> If <code>GatewayType</code> is set to <code>NORMAL_CVM</code> , <code>GatewayId</code> should be the private IP of the instance.

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 using the unique ID <code>RouteItemId</code> for the routing policy. This field is required when you want to delete a routing policy.
RouteDescription	String	No	The description of the routing policy.
Enabled	Boolean	No	Whether it is enabled
RouteType	String	No	The route type. Currently, the following types are supported: USER: User route; NETD: Network probe route. When creating a network probe route, the system delivers by default. It cannot be edited or deleted; CCN: CCN route. The system delivers by default. It cannot be edited or deleted. Users can only add and operate USER-type routes.
RouteTableId	String	No	Route table instance ID, such as <code>rtb-azd4dt1c</code> .
DestinationIpv6CidrBlock	String	No	Destination IPv6 IP range, which cannot be included in VPC IP range, such as <code>2402:4e00:1000:810b::/64</code> .
RouteItemId	String	No	Unique routing policy ID.
PublishedToVbc	Boolean	No	Whether the routing policy is published to CCN. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
CreatedTime	Timestamp	No	Creation time of the routing policy

## RouteTable

Route table object

Used by actions: CreateRouteTable, CreateRoutes, DescribeRouteTables.

Name	Type	Description
VpcId	String	VPC instance ID.
RouteTableId	String	The route table instance ID, such as <code>rtb-azd4dt1c</code> .



RouteTableName	String	Route table name.
AssociationSet	Array of <a href="#">RouteTableAssociation</a>	The association relationships of the route table.
RouteSet	Array of <a href="#">Route</a>	IPv4 routing policy set.
Main	Boolean	Whether it is the default route table.
CreatedTime	String	Creation Time.
TagSet	Array of <a href="#">Tag</a>	Tag key-value pairs.
LocalCidrForCcn	Array of <a href="#">CidrForCcn</a>	Whether the local route is published to CCN. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## RouteTableAssociation

The association relationships of the route table

Used by actions: `CreateRouteTable`, `CreateRoutes`, `DescribeRouteTables`.

Name	Type	Description
SubnetId	String	Subnet instance ID.
RouteTableId	String	Route table instance ID.

## SecurityGroup

Security group object

Used by actions: `CloneSecurityGroup`, `CreateSecurityGroup`, `CreateSecurityGroupWithPolicies`, `DescribeSecurityGroups`.

Name	Type	Required	Description
SecurityGroupId	String	Yes	The security group instance ID, such as <code>sg-ohuuioma</code> .
SecurityGroupName	String	Yes	Security group can be named freely, but cannot exceed 60 characters.

SecurityGroupDesc	String	Yes	The remarks for the security group. The maximum length is 100 characters.
ProjectId	String	No	The project id is 0 by default. You can query this in the project management page of the Qcloud console.
IsDefault	Boolean	No	Whether it is the default security group (which cannot be deleted).
CreatedTime	String	No	Security group creation time.
TagSet	Array of <a href="#">Tag</a>	No	Tag key-value pairs.
UpdateTime	String	No	Security group update time. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## SecurityGroupAssociationStatistics

Statistics on the instances associated with the security group

Used by actions: DescribeSecurityGroupAssociationStatistics.

Name	Type	Description
SecurityGroupId	String	Security group instance ID.
CVM	Integer	Number of CVM instances.
CDB	Integer	Number of TencentDB for MySQL instances
ENI	Integer	Number of ENI instances.
SG	Integer	Number of times a security group is referenced by other security groups
CLB	Integer	Number of load balancer instances.
InstanceStatistics	Array of <a href="#">InstanceStatistic</a>	The binding statistics for all instances.
TotalCount	Integer	Total count of all resources (excluding resources referenced by security groups).

# SecurityGroupPolicy

Security group policy object

Used by actions: CreateSecurityGroupPolicies, CreateSecurityGroupWithPolicies, DeleteSecurityGroupPolicies, DescribeSecurityGroupPolicies, DescribeSgSnapshotFileContent, ModifySecurityGroupPolicies, ReplaceSecurityGroupPolicies, ReplaceSecurityGroupPolicy.

Name	Type	Required	Description
PolicyIndex	Integer	No	The index number of security group rules, which dynamically changes with the rules. This parameter can be obtained via the <code>DescribeSecurityGroupPolicies</code> API and used with the <code>Version</code> field in the returned value of the API.
Protocol	String	No	Protocol. Valid values: TCP, UDP, ICMP, ICMPv6, ALL.
Port	String	No	Port ( <code>all</code> , a single port, or a port range). Note: If the <code>Protocol</code> value is set to <code>ALL</code> , the <code>Port</code> value also needs to be set to <code>all</code> .
ServiceTemplate	<a href="#">ServiceTemplateSpecification</a>	No	Protocol port ID or protocol port group ID. ServiceTemplate and Protocol+Port are mutually exclusive.
CidrBlock	String	No	Either <code>CidrBlock</code> or <code>Ipv6CidrBlock</code> can be specified. Note that if <code>0.0.0.0/n`</code> is entered, it is mapped to <code>0.0.0.0/0</code> .
Ipv6CidrBlock	String	No	The CIDR block or IPv6 (mutually exclusive).
SecurityGroupId	String	No	The security group instance ID, such as <code>sg-ohuuioma</code> .
AddressTemplate	<a href="#">AddressTemplateSpecification</a>	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	The last modification time of the security group.

## SecurityGroupPolicySet

Security group policy set

Used by actions: CreateSecurityGroupPolicies, CreateSecurityGroupWithPolicies, DeleteSecurityGroupPolicies, DescribeSecurityGroupPolicies, ModifySecurityGroupPolicies, ReplaceSecurityGroupPolicies, ReplaceSecurityGroupPolicy.

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. Note: This parameter may return null, indicating that no valid values can be obtained.
Egress	Array of <a href="#">SecurityGroupPolicy</a>	No	Outbound rule. Note: This parameter may return null, indicating that no valid values can be obtained.
Ingress	Array of <a href="#">SecurityGroupPolicy</a>	No	Inbound rule. Note: This parameter may return null, indicating that no valid values can be obtained.

## SecurityPolicyDatabase

SecurityPolicyDatabase policy

Used by actions: CreateVpnConnection, DescribeVpnConnections, ModifyVpnConnectionAttribute.

Name	Type	Required	Description
LocalCidrBlock	String	Yes	Local IP range
RemoteCidrBlock	Array of String	Yes	Opposite IP range

## ServiceTemplate

Protocol port template

Used by actions: CreateServiceTemplate, CreateServiceTemplateGroup, DescribeServiceTemplateGroups, DescribeServiceTemplates.

Name	Type	Description
ServiceTemplateId	String	Protocol port instance ID, such as <code>ppm-f5n1f8da</code> .
ServiceTemplateName	String	Template name.
ServiceSet	Array of String	Protocol port information.
CreatedTime	String	Creation Time.
ServiceExtraSet	Array of <a href="#">ServicesInfo</a>	Protocol port template information with remarks

## ServiceTemplateGroup

Protocol port template group

Used by actions: CreateServiceTemplateGroup, DescribeServiceTemplateGroups.

Name	Type	Description
ServiceTemplateGroupId	String	Protocol port template group instance ID, such as <code>ppmg-2klmrefu</code> .
ServiceTemplateGroupName	String	Protocol port template group name.
ServiceTemplateIdSet	Array of String	Protocol port template instance ID.
CreatedTime	String	Creation Time.
ServiceTemplateSet	Array of <a href="#">ServiceTemplate</a>	Protocol port template instance information.

## ServiceTemplateSpecification

Protocol port template

Used by actions: CreateSecurityGroupPolicies, CreateSecurityGroupWithPolicies, DeleteSecurityGroupPolicies, DescribeSecurityGroupPolicies, DescribeSgSnapshotFileContent, ModifySecurityGroupPolicies, ReplaceSecurityGroupPolicies, ReplaceSecurityGroupPolicy.

Name	Type	Required	Description
ServiceId	String	Yes	Protocol port ID, such as <code>ppm-f5n1f8da</code> .
ServiceGroupId	String	Yes	Protocol port group ID, such as <code>ppmg-f5n1f8da</code> .

## ServicesInfo

Protocol port template information

Used by actions: CreateServiceTemplate, CreateServiceTemplateGroup, DescribeServiceTemplateGroups, DescribeServiceTemplates, ModifyServiceTemplateAttribute.

Name	Type	Required	Description
Service	String	Yes	Protocol port
Description	String	No	Remarks Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## SnapshotFileInfo

Snapshot file information

Used by actions: DescribeSnapshotFiles.

Name	Type	Description
SnapshotPolicyId	String	Snapshot policy ID
InstanceId	String	ID of the instance.
SnapshotFileId	String	Snapshot file ID
BackupTime	String	Backup time
Operator	String	Operator UIN

## SnapshotInstance

Information of instance associated with the snapshot policy

Used by actions: AttachSnapshotInstances, DescribeSnapshotAttachedInstances, DetachSnapshotInstances.

Name	Type	Required	Description
InstanceId	String	Yes	ID of the instance.
InstanceType	String	Yes	Type of associated resource. Values: <code>securitygroup</code>
InstanceRegion	String	Yes	Instance region
SnapshotPolicyId	String	No	Snapshot policy IDs
InstanceName	String	No	The instance name.

## SnapshotPolicy

Snapshot policy

Used by actions: CreateSnapshotPolicies, DescribeSnapshotPolicies.

Name	Type	Required	Description
SnapshotPolicyName	String	Yes	Snapshot policy name
BackupType	String	Yes	Backup policy type. Values: <code>operate</code> (Manual backup); <code>time</code> (Scheduled backup)
KeepTime	Integer	Yes	Snapshot retention period in days. Range: 1 to 365.
CreateNewCos	Boolean	Yes	Whether to create a new COS bucket. It defaults to <code>False</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
CosRegion	String	Yes	Region of the COS bucket
CosBucket	String	Yes	COS bucket
SnapshotPolicyId	String	No	Snapshot policy ID
BackupPolicies	Array of	No	Scheduled backup policies

	<a href="#">BackupPolicy</a>		Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Enable	Boolean	No	Whether to enable the policy. Values: <code>True</code> (default), <code>False</code>
CreateTime	String	No	Creation time Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

## SourceIpTranslationNatRule

SNAT rule of a NAT Gateway

Used by actions: `CreateNatGateway`, `CreateNatGatewaySourceIpTranslationNatRule`, `DescribeNatGatewaySourceIpTranslationNatRules`, `DescribeNatGateways`, `ModifyNatGatewaySourceIpTranslationNatRule`.

Name	Type	Required	Description
ResourceId	String	Yes	Resource ID. It can be left empty if <code>ResourceType</code> is <code>USERDEFINED</code> .
ResourceType	String	Yes	Resource type. Valid values: <code>SUBNET</code> , <code>NETWORKINTERFACE</code> , <code>USERDEFINED</code> Note: This field may return null, indicating that no valid values can be obtained.
PrivateIpAddress	String	Yes	Source IP/IP range
PublicIpAddresses	Array of String	Yes	Elastic IP address pool
Description	String	Yes	Description
NatGatewaySnatId	String	No	SNAT rule ID
NatGatewayId	String	No	NAT gateway ID. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
VpcId	String	No	VPC ID. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.



CreatedTime	String	No	The creation time of a NAT gateway's SNAT rule. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
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## Subnet

### Subnet object

Used by actions: CreateAssistantCidr, CreateNetworkAcl, CreateSubnet, CreateSubnets, CreateVpc, DescribeAssistantCidr, DescribeNetworkAcls, DescribeSubnets, DescribeVpcs, ModifyAssistantCidr.

Name	Type	Description
VpcId	String	The <code>ID</code> of the <code>VPC</code> instance.
SubnetId	String	Subnet instance <code>ID</code> , such as <code>subnet-bthucmmy</code> .
SubnetName	String	Subnet name.
CidrBlock	String	The <code>IPv4</code> <code>CIDR</code> of the subnet.
IsDefault	Boolean	Whether it is the default subnet.
EnableBroadcast	Boolean	Whether to enable broadcast.
Zone	String	Availability Zone.
RouteTableId	String	The route table instance ID, such as <code>rtb-l2h8d7c2</code> .
CreatedTime	String	Creation Time.
AvailableIpAddressCount	Integer	The number of available IPv4 addresses
Ipv6CidrBlock	String	The <code>IPv6</code> <code>CIDR</code> of the subnet.
NetworkAclId	String	The associated <code>ACL</code> ID
IsRemoteVpcSnat	Boolean	Whether it is a <code>SNAT</code> address pool subnet.
TotalIpAddressCount	Integer	The total number of IPv4 addresses in the subnet.
TagSet	Array of <a href="#">Tag</a>	Tag key-value pairs
Cdclid	String	CDC instance ID Note: this field may return <code>null</code> , indicating that no valid values

		can be obtained.
IsCdcSubnet	Integer	Whether it is a CDC subnet. Valid values: 0: no; 1: yes Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

## SubnetInput

Subnet object

Used by actions: CreateSubnets.

Name	Type	Required	Description
CidrBlock	String	Yes	The <code>CIDR</code> of the subnet.
SubnetName	String	Yes	Subnet name.
Zone	String	Yes	The availability zone, such as <code>ap-guangzhou-2</code> .
RouteTableId	String	No	The specified associated route table, such as <code>rtb-3ryrwzuu</code> .

## Tag

Tag key-value pair

Used by actions: AllocateAddresses, CloneSecurityGroup, CreateAndAttachNetworkInterface, CreateAssistantCidr, CreateBandwidthPackage, CreateCcn, CreateCustomerGateway, CreateFlowLog, CreateNatGateway, CreateNetworkAcl, CreateNetworkInterface, CreateRouteTable, CreateRoutes, CreateSecurityGroup, CreateSecurityGroupWithPolicies, CreateSubnet, CreateSubnets, CreateVpc, CreateVpnConnection, CreateVpnGateway, DescribeAddresses, DescribeAssistantCidr, DescribeCcns, DescribeFlowLog, DescribeFlowLogs, DescribeNatGateways, DescribeNetworkAcls, DescribeNetworkInterfaces, DescribeRouteTables, DescribeSecurityGroups, DescribeSubnets, DescribeTrafficPackages, DescribeVpcs, DescribeVpnConnections, GetCcnRegionBandwidthLimits, ModifyAssistantCidr.

Name	Type	Required	Description
Key	String	Yes	Tag key Note: This field may return null, indicating no valid value.
Value	String	Yes	Tag value Note: This field may return null, indicating no valid value.

## TrafficPackage

Information of a traffic package

Used by actions: DescribeTrafficPackages.

Name	Type	Description
TrafficPackageId	String	Unique traffic package ID
TrafficPackageName	String	Traffic package name Note: This field may return null, indicating that no valid values can be obtained.
TotalAmount	Float	Traffic package size in GB
RemainingAmount	Float	Traffic package balance in GB
Status	String	Traffic package status. Valid values: AVAILABLE , EXPIRED , EXHAUSTED , REFUNDED , DELETED
CreatedTime	Timestamp ISO8601	Traffic package creation time
Deadline	Timestamp ISO8601	Traffic package expiration time
UsedAmount	Float	Used traffic in GB
TagSet	Array of Tag	Traffic package tag Note: This field may return null, indicating that no valid values can be obtained.
DeductType	String	Traffic package type (idle-time or full-time)

## Vpc

Virtual Private Cloud (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	The IPv4 CIDR of the VPC .
IsDefault	Boolean	Whether it is the default VPC .
EnableMulticast	Boolean	Whether multicast is enabled.
CreatedTime	String	Creation Time.
DnsServerSet	Array of String	DNS list.
DomainName	String	DHCP domain name option value.
DhcpOptionsId	String	DHCP option set ID .
EnableDhcp	Boolean	Whether DHCP is enabled.
Ipv6CidrBlock	String	The IPv6 CIDR of the VPC .
TagSet	Array of Tag	Tag key-value pair
AssistantCidrSet	Array of AssistantCidr	The secondary CIDR block. Note: This field may return null, indicating that no valid values can be obtained.

## VpcEndPointServiceUser

Details of allowed endpoint services

Used by actions: DescribeVpcEndPointServiceWhiteList.

Name	Type	Description
Owner	Integer	APP ID
UserUin	String	User UIN
Description	String	Description
CreateTime	String	Creation time
EndPointServiceId	String	Endpoint service ID

## VpcIpv6Address

VPC private IPv6 object.

Used by actions: DescribeVpcIpv6Addresses.

Name	Type	Description
Ipv6Address	String	VPC private IPv6 address
CidrBlock	String	The IPv6 CIDR belonging to the subnet.
Ipv6AddressType	String	IPv6 type.
CreatedTime	String	IPv6 application time.

## VpcPrivateIpAddress

VPC private IP object.

Used by actions: DescribeVpcPrivateIpAddresses.

Name	Type	Description
PrivateIpAddress	String	VPC private IP .
CidrBlock	String	The CIDR belonging to the subnet.
PrivateIpAddressType	String	Private IP type.
CreatedTime	Timestamp	IP application time.

## VpcTaskResultDetailInfo

Result of a VPC-related task

Used by actions: DescribeVpcTaskResult.

Name	Type	Description
ResourceId	String	Resource ID Note: this field may return <code>null</code> , indicating that no valid value can be obtained.

Status	String	Status Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
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## VpnConnection

VPN tunnel object.

Used by actions: CreateVpnConnection, DescribeVpnConnections.

Name	Type	Description
VpnConnectionId	String	Tunnel instance ID.
VpnConnectionName	String	Tunnel name.
Vpclid	String	VPC instance ID.
VpnGatewayId	String	The ID of the VPN gateway instance.
CustomerGatewayId	String	Customer gateway instance ID.
PreShareKey	String	The pre-shared key.
VpnProto	String	Tunnel transmission protocol.
EncryptProto	String	Tunnel encryption protocol.
RouteType	String	Route Type.
CreatedTime	Timestamp	Creation Time.
State	String	Production status of the tunnel. PENDING: Creating; AVAILABLE: Running; DELETING: Deleting.
NetStatus	String	Connection status of the tunnel. AVAILABLE: Connected.
SecurityPolicyDatabaseSet	Array of <a href="#">SecurityPolicyDatabase</a>	SPD.
IKEOptionsSpecification	<a href="#">IKEOptionsSpecification</a>	IKE options.
IPSECOptionsSpecification	<a href="#">IPSECOptionsSpecification</a>	IPSEC options.
EnableHealthCheck	Boolean	Whether the health check is supported.

HealthCheckLocalIp	String	Local IP address for the health check
HealthCheckRemoteIp	String	Peer IP address for the health check
HealthCheckStatus	String	Tunnel health check status. Valid values: AVAILABLE: healthy; UNAVAILABLE: unhealthy. This parameter will be returned only after health check is enabled.
DpdEnable	Integer	Whether to enable DPD. Values: <code>0</code> (Disable) and <code>1</code> (Enable) Note: This field may return null, indicating that no valid values can be obtained.
DpdTimeout	String	DPD timeout period. Note: This field may return null, indicating that no valid values can be obtained.
DpdAction	String	The action to take in case of DPD timeout. Values: <code>clear</code> (Disconnect) and <code>restart</code> (retry). This parameter only takes effect when <code>DpdEnable</code> is set to <code>1</code> . Note: This field may return null, indicating that no valid values can be obtained.
TagSet	Array of <a href="#">Tag</a>	Array of tag key-value pairs
NegotiationType	String	Negotiation type Note: This field may return null, indicating that no valid values can be obtained.

## VpnGateway

VPN gateway object.

Used by actions: [CreateVpnGateway](#), [DescribeVpnGateways](#).

Name	Type	Description
VpnGatewayId	String	Gateway instance ID.
VpId	String	VPC instance ID.
VpnGatewayName	String	Gateway instance name.
Type	String	Gateway instance type. Valid values: 'IPSEC', 'SSL', and

		'CCN'.
State	String	Gateway instance status. 'PENDING': Creating; 'DELETING': Deleting; 'AVAILABLE': Running.
PublicIpAddress	String	Gateway public IP.
RenewFlag	String	Gateway renewal type: 'NOTIFY_AND_MANUAL_RENEW': Manual renewal. 'NOTIFY_AND_AUTO_RENEW': Automatic renewal. 'NOT_NOTIFY_AND_NOT_RENEW': No renewal after expiration.
InstanceChargeType	String	Gateway billing type: POSTPAID_BY_HOUR: Postpaid by hour; PREPAID: Prepaid.
InternetMaxBandwidthOut	Integer	Outbound bandwidth of gateway.
CreatedTime	Timestamp	Creation Time.
ExpiredTime	Timestamp	Expiration time of the prepaid gateway.
IsAddressBlocked	Boolean	Whether the public IP is blocked.
NewPurchasePlan	String	Change of billing method. PREPAID_TO_POSTPAID: Monthly subscription prepaid to postpaid by hour.
RestrictState	String	Gateway billing status. PROTECTIVELY_ISOLATED: Instance is isolated; NORMAL: Normal.
Zone	String	The availability zone, such as <code>ap-guangzhou-2</code>
VpnGatewayQuotaSet	Array of <a href="#">VpnGatewayQuota</a>	Gateway bandwidth quota information.
Version	String	Gateway instance version.
NetworkInstanceId	String	CCN instance ID when the value of Type is CCN.
CdId	String	CDC instance ID
MaxConnection	Integer	Maximum number of connected clients allowed for the SSL VPN gateway.

## VpnGatewayQuota



VPN gateway quota object

Used by actions: CreateVpnGateway, DescribeVpnGateways.

Name	Type	Description
Bandwidth	Integer	The bandwidth quota.
Cname	String	The bandwidth quota name in Chinese.
Name	String	The bandwidth quota name in English.

## VpnGatewayRoute

Destination routes of a VPN gateway

Used by actions: CreateVpnGatewayRoutes, DescribeVpnGatewayRoutes, ModifyVpnGatewayRoutes.

Name	Type	Required	Description
DestinationCidrBlock	String	Yes	Destination IDC IP range
InstanceType	String	Yes	Next hop type (type of the associated instance). Valid values: <code>VPNCONN</code> (VPN tunnel) and <code>CCN</code> (CCN instance)
Instanceld	String	Yes	Instance ID of the next hop
Priority	Integer	Yes	Priority. Valid values: <code>0</code> and <code>100</code>
Status	String	Yes	Status. Valid values: <code>ENABLE</code> and <code>DISABLE</code>
RouteId	String	No	Route ID
Type	String	No	Route type. Valid values: <code>VPC</code> , <code>CCN</code> (CCN-propagated route), <code>Static</code> , and <code>BGP</code> .
CreateTime	Timestamp	No	The creation time.
UpdateTime	Timestamp	No	The update time.

## VpnGatewayRouteModify

Modify route status of the VPN gateway

Used by actions: ModifyVpnGatewayRoutes.

Name	Type	Required	Description
RouteId	String	Yes	Route ID of the VPN gateway
Status	String	Yes	Route status of the VPN gateway. Valid values: <code>ENABLE</code> , and <code>DISABLE</code> .

## VpngwCcnRoutes

Information on VPN gateway-based CCN routes.

Used by actions: DescribeVpnGatewayCcnRoutes, ModifyVpnGatewayCcnRoutes.

Name	Type	Required	Description
RouteId	String	Yes	Route ID
Status	String	No	Enable the route or not ENABLE: enable the route DISABLE: do not enable the route
DestinationCidrBlock	String	No	Route CIDR block

# Error Codes

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## Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

## Error Code List

### Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	<code>Authorization</code> in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the <a href="#">CAM</a> documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

## Service Error Codes

Error Code	Description
AddressQuotaLimitExceeded	The account quota is reached. Each Tencent Cloud account can create up to 20 EIPs in each region.
AddressQuotaLimitExceeded.DailyAllocate	The maximum number of requests is reached. The maximum number of requests made by a Tencent Cloud account per day in each region equals to two times the quota.
AuthFailure	CAM signature or authentication error.
FailedOperation.AddressEniInfoNotFound	The ENI information is not available in this address.

FailedOperation.BalanceInsufficient	Insufficient account balance.
FailedOperation.InvalidRegion	Unsupported region.
FailedOperation.IpTypeNotPermit	
FailedOperation.MasterEniNotFound	The instance's primary ENI is not found.
FailedOperation.NetDetectTimeOut	Network probe timed out. Please retry later.
FailedOperation.TaskFailed	Task execution failed.
InternalError.CreateCkafkaRouteError	Failed to create the Ckafka route. Please retry later.
InternalError.ModuleError	Internal module error
InternalServerError	Internal error.
InvalidAccount.NotSupported	This account is not supported.
InvalidAddressId.Blocked	The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.
InvalidAddressId.NotFound	The specified EIP does not exist.
InvalidAddressIdState.InArrears	The specified EIP is in arrears.
InvalidAddressIdStatus.NotPermit	The specified EIP cannot be bound in current status. It can only be bound in UNBIND status.
InvalidAddressState	The operation cannot be performed on the specified EIP in current status.
InvalidInstance.NotSupported	This instance is not supported.
InvalidInstanceId.AlreadyBindEip	The specified instance has already been bound to an EIP. You must unbind the current EIP first before binding another EIP.
InvalidInstanceId.NotFound	Invalid instance ID. The specified instance ID does not exist.

InvalidNetworkInterfaceId.NotFound	The specified NetworkInterfaceId does not exist or the specified PrivateIpAddress is not on the NetworkInterfaceId.
InvalidParameter.AclTypeMismatch	
InvalidParameter.Coexist	The parameters cannot be specified at the same time.
InvalidParameter.FilterInvalidKey	The specified filter condition does not exist.
InvalidParameter.FilterNotDict	The specified filter condition should be a key-value pair.
InvalidParameter.FilterValuesNotList	The specified filter value should be a list.
InvalidParameter.InvalidFilter	The filter rule is invalid.
InvalidParameter.NextHopMismatch	The next hop type does not match with the next hop gateway.
InvalidParameter.VpgHaGroupNotFound	The cross-AZ placement group of the DC gateway doesn't exist.
InvalidParameterConflict	The two parameters cannot be specified at the same time, nor exist concurrently. EIP can only be bound to the instances or the specified private IPs of the specified ENIs.
InvalidParameterValue.AddressAttacked	Attacked IP address.
InvalidParameterValue.AddressIdMalformed	This IP address ID is invalid.
InvalidParameterValue.AddressInternetChargeTypeConflict	The billing mode of this IP address conflicts with that of other IP addresses.
InvalidParameterValue.AddressIpNotAvailable	The IP address is not available now.
InvalidParameterValue.AddressIpsNotFound	Failed to query the address.
InvalidParameterValue.AddressNotApplicable	An EIP cannot be bound with this type of instance.

InvalidParameterValue.AddressNotCalcIP	This IP address is not a CalcIP (device IP).
InvalidParameterValue.AddressNotFound	Unable to find the address.
InvalidParameterValue.AddressTypeConflict	Invalid IP address type
InvalidParameterValue.BandwidthOutOfRange	The bandwidth exceeds the limit.
InvalidParameterValue.BandwidthPackageIdMalformed	Incorrect bandwidth package ID.
InvalidParameterValue.BandwidthPackageInUse	The bandwidth package is in use.
InvalidParameterValue.BandwidthPackageNotFound	Failed to query the bandwidth package
InvalidParameterValue.BandwidthTooSmall	The selected bandwidth is smaller than the minimum permissible range.
InvalidParameterValue.CcnAttachBmvpcLimitExceeded	The number of BM VPCs associated with the specified CCN has reached the upper limit.
InvalidParameterValue.CidrNotInPeerVpc	The destination IP address range is not within the CIDR range of the the customer VPC.
InvalidParameterValue.Combination	Invalid input parameters
InvalidParameterValue.Duplicate	The input parameter already exists.
InvalidParameterValue.DuplicatePara	The parameter value already exists.
InvalidParameterValue.EIPBrandWidthOutInvalid	Exceeded the upper limit.
InvalidParameterValue.Empty	Missing parameters.
InvalidParameterValue.Illegal	
InvalidParameterValue.InconsistentInstanceInternetChargeType	The billing mode of this instance is different from that of others.
InvalidParameterValue.InstanceDoesNotSupportAnycast	This instance does not support an Anycast EIP.
InvalidParameterValue.InstanceHasNoWanIP	The instance does not have a public IP.



InvalidParameterValue.InstanceHasWanIP	This instance already has a WanIP (public IP).
InvalidParameterValue.InstanceIdMalformed	Incorrect instance ID.
InvalidParameterValue.InstanceNoCalcIP	Request failed: this instance does not have a CalcIP (device IP).
InvalidParameterValue.InstanceNoWanIP	Request failed: this instance does not have a WanIP (public IP).
InvalidParameterValue.InstanceNormalPublicIpBlocked	Failed to bind: this IP is restricted
InvalidParameterValue.InstanceNotMatchAssociateEni	The ENI and the IP are bound with different instances.
InvalidParameterValue.InternetChargeTypeNotChanged	The network billing mode has not been changed.
InvalidParameterValue.InvalidBandwidthPackageChargeType	Invalid billing mode of bandwidth package
InvalidParameterValue.InvalidBusiness	The parameter value does not exist or is not supported.
InvalidParameterValue.InvalidDedicatedClusterId	Invalid DedicatedClusterId.
InvalidParameterValue.InvalidInstanceInternetChargeType	This IP is applicable only for pay-as-you-go instances that billed by hourly traffic and instances with bandwidth package.
InvalidParameterValue.InvalidInstanceState	Operation failed: the status of the instance does not allow this operation.
InvalidParameterValue.InvalidTag	This Tag is invalid.
InvalidParameterValue.LBAAlreadyBindEip	This CLB instance is already bound with an EIP.
InvalidParameterValue.LimitExceeded	The parameter value exceeds the limit.
InvalidParameterValue.Malformed	Invalid input parameter format.
InvalidParameterValue.MemberApprovalApplicationIdMismatch	
InvalidParameterValue.MemberApprovalApplicationNotApproved	

InvalidParameterValue.MemberApprovalApplicationRejected	
InvalidParameterValue.MemberApprovalApplicationStarted	
InvalidParameterValue.MissingAssociateEntity	The bound instance is missing.
InvalidParameterValue.MixedAddressIpSetType	A request cannot contain IP addresses with different cluster types.
InvalidParameterValue.NatGatewayDnatRuleExisted	The DNAT forwarding rule of the NAT gateway already exists.
InvalidParameterValue.NatGatewayDnatRuleNotExists	The DNAT forwarding rule of the NAT gateway does not exist.
InvalidParameterValue.NatGatewayDnatRulePipNeedVm	The private IP of the DNAT translation rule must be an IP used by the ENI of the virtual machine.
InvalidParameterValue.NatGatewayDnatRuleRepeated	The DNAT rule of the NAT gateway to add already exists.
InvalidParameterValue.NatGatewaySnatRuleNotExists	The SNAT forwarding rule of the NAT gateway does not exist.
InvalidParameterValue.NatSnatRuleExists	The NAT Gateway already has an identical SNAT rule.
InvalidParameterValue.NetDetectInVpc	The probe destination IP and network probe are in the same VPC.
InvalidParameterValue.NetDetectNotFoundIp	Unable to find the matched next hop in the CCN route table for the destination IP.
InvalidParameterValue.NetDetectSameIp	The detection destination IP address is the same as that of another network detection instance under the same subnet in the same VPC.
InvalidParameterValue.NetworkInterfaceIdMalformed	Incorrect network interface ID.
InvalidParameterValue.NetworkInterfaceNotFound	The network interface ID was not found. The private IP address may

	not be configured on the network interface.
InvalidParameterValue.OnlySupportedForMasterNetworkCard	This operation is only available for primary ENIs.
InvalidParameterValue.ParameterMismatch	Invalid parameter format
InvalidParameterValue.Range	The parameter value is not in the specified range.
InvalidParameterValue.Reserved	The parameter value is retained by the system.
InvalidParameterValue.ResourceAlreadyExisted	The resource has already added to another bandwidth package.
InvalidParameterValue.ResourceExpired	The resource has expired.
InvalidParameterValue.ResourceIdMalformed	The resource ID is incorrect.
InvalidParameterValue.ResourceNotExisted	The resource is not associated with this bandwidth package.
InvalidParameterValue.ResourceNotFound	This resource is not found.
InvalidParameterValue.ResourceNotSupport	The resource does not support this operation.
InvalidParameterValue.StopChargingInstanceInUse	Operation failed: The instance to shut down is using the current resource.
InvalidParameterValue.SubnetConflict	Subnet CIDR conflict.
InvalidParameterValue.SubnetOverlap	The CIDR block overlaps with another subnet within the same VPC.
InvalidParameterValue.SubnetOverlapAssistCidr	The subnet IP range overlaps with the secondary CIDR block.
InvalidParameterValue.SubnetRange	Invalid subnet CIDR.
InvalidParameterValue.TagDuplicateKey	Duplicate tag keys.
InvalidParameterValue.TagDuplicateResourceType	Duplicate tag resource type.
InvalidParameterValue.TagInvalidKey	Invalid tag key.

InvalidParameterValue.TagInvalidKeyLen	Invalid tag key length.
InvalidParameterValue.TagInvalidVal	Invalid tag key.
InvalidParameterValue.TagKeyNotExists	The tag key does not exist.
InvalidParameterValue.TagNotAllocatedQuota	Tags are not assigned quotas.
InvalidParameterValue.TagNotExisted	The tag and value do not exist.
InvalidParameterValue.TagNotSupportTag	Unsupported tag.
InvalidParameterValue.TagResourceFormatError	'The tag resource format error.
InvalidParameterValue.TagTimestampExceeded	Exceeded the quota of tag timestamp.
InvalidParameterValue.TagValNotExists	The tag value does not exist.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
InvalidParameterValue.TrafficPackageIdMalformed	The traffic package ID is invalid.
InvalidParameterValue.TrafficPackageNotFound	u200dThis traffic package is not found.
InvalidParameterValue.TrafficPackageNotSupported	The specified traffic package does not support this operation.
InvalidParameterValue.UnavailableZone	This availability zone is unavailable.
InvalidParameterValue.VpcCidrConflict	Destination IP address range conflicts with CIDR of the current VPC.
InvalidParameterValue.VpgTypeNotMatch	This feature is not available for this direct connect gateway.
InvalidParameterValue.VpnConnCidrConflict	Destination IP address range conflicts with CIDR block of the current VPC tunnel.
InvalidParameterValue.VpnConnHealthCheckIpConflict	The destination IP of the probe cannot be within the IP range of the VPC.
InvalidParameterValue.ZoneConflict	The <code>Zone</code> parameter value

	should be the zone where CDC resides.
InvalidPrivateIpAddress.AlreadyBindEip	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.
InvalidRouteId.NotFound	Invalid RouteId.
InvalidRouteTableId.Malformed	Invalid route table. The route table ID is invalid.
InvalidRouteTableId.NotFound	Invalid route table. The VPC resource does not exist. Please check and enter the correct resource information.
InvalidSecurityGroupId.Malformed	Invalid security group. The security group instance ID is invalid.
InvalidSecurityGroupId.NotFound	Invalid security group. The security group instance ID does not exist.
InvalidVpcId.Malformed	Invalid VPC. The VPC instance ID is invalid.
InvalidVpcId.NotFound	Invalid VPC. The VPC resource does not exist.
InvalidVpnGatewayId.Malformed	Invalid VPN gateway. The VPN instance ID is invalid.
InvalidVpnGatewayId.NotFound	Invalid VPN gateway. The VPN instance does not exist. Verify if you have entered the correct resource information.
LimitExceeded.AccountReturnQuota	Ran out of the quota for returning under this account.
LimitExceeded.ActionLimited	Too often API invocations
LimitExceeded.Address	The number of assigned IP addresses has reached the upper limit.

LimitExceeded.AddressQuotaLimitExceeded	The number of EIPs applied for exceeds the upper limit.
LimitExceeded.AttachedSnapshotPolicyExceeded	Reached the upper limit of snapshot policies associated with an instance
LimitExceeded.BandwidthPackageQuota	Exceeded the upper limit of the bandwidth package quota.
LimitExceeded.BandwidthPackageResourceQuota	Number of resources added to this bandwidth package reached the upper limit.
LimitExceeded.ChangeAddressQuota	Run out of the chances to change the IP.
LimitExceeded.CidrBlock	The number of assigned IP ranges of the VPC has reached the upper limit.
LimitExceeded.CurrentInstanceAttachedCcnInstances	Reached the upper limit of associated CCN instances
LimitExceeded.DailyAllocateAddressQuotaLimitExceeded	The number of EIPs applied for per day exceeds the upper limit.
LimitExceeded.DailyChangeAddressQuota	Run out of the daily chances to change the IP.
LimitExceeded.InstanceAddressQuota	Exceeded the upper limit of the EIPs bound to the instance.
LimitExceeded.ModifyAddressInternetChargeTypeQuota	Ran out of the quota of chances to change the IP billing mode.
LimitExceeded.MonthlyAddressRecoveryQuota	Ran out of the monthly quota of chances to retrieve IPs.
LimitExceeded.NatGatewayLimitExceeded	Reached the upper limit of NAT gateways.
LimitExceeded.NatGatewayPerVpcLimitExceeded	The number of NAT gateways created by the VPC has reached the upper limit.
LimitExceeded.NumberOfFilters	Exceeded the character limit of a filter name.

LimitExceeded.PublicIpAddressPerNatGatewayLimitExceeded	The number of EIPs bound to the NAT gateway has reached the upper limit.
LimitExceeded.SecurityGroupPolicySet	The number of security group rules exceeds the upper limit.
LimitExceeded.SubnetCidrBlock	The number of subnet IP ranges assigned in the subnet has reached the upper limit.
LimitExceeded.TagKeyExceeded	Reached the upper limit of tag keys.
LimitExceeded.TagKeyPerResourceExceeded	Reached the upper limit of tags keys per resource.
LimitExceeded.TagNotEnoughQuota	Insufficient tag quota.
LimitExceeded.TagQuota	Exceeded the tag quota. Unable to create resources.
LimitExceeded.TagQuotaExceeded	Reached the upper limit of tag quota.
LimitExceeded.TagTagsExceeded	Reached the number limit of tag keys.
OperationDenied.AddressInArrears	The specified public IP is isolated.
OperationDenied.MutexTaskRunning	Mutually exclusive tasks are executing.
ResourceInUse.Address	The specified IP address is already in use.
ResourceInsufficient.CidrBlock	The IP range resources are insufficient.
ResourceInsufficient.Subnet	The subnet does not have sufficient IPs.
ResourceNotFound.SvcNotExist	The Svc doesn't exist.
ResourceUnavailable.ServiceWhiteListNotAdded	The current user is not in the allowlist of the specified endpoint service.
UnauthorizedOperation.AnycastEip	No permission to apply for

	AnycastEip resources.
UnauthorizedOperation.AttachmentNotFound	The binding relationship does not exist.
UnauthorizedOperation.InvalidAccount	Unauthorized user.
UnauthorizedOperation.NoRealNameAuthentication	Identity verification has not been completed for the account.
UnauthorizedOperation.PrimaryIp	The operation is not allowed for a primary IP.
UnknownParameter.WithGuess	Unknown parameter. Try similar parameters.
UnsupportedOperation.AccountNotSupported	This account is not supported.
UnsupportedOperation.ActionNotFound	The port does not exist.
UnsupportedOperation.AddressIpNotSupportInstance	The IP address bound with this instance does not support this operation
UnsupportedOperation.AddressStatusNotPermit	This operation is not supported by the IP address status.
UnsupportedOperation.AppldMismatch	The resource is not under the specified Appld.
UnsupportedOperation.AppldNotFound	The APPIId doesn't exist.
UnsupportedOperation.AssociatedVpcOfCcnHadNatRoute	The NAT gateway route already exists in another VPC added to the CCN instance.
UnsupportedOperation.AttachmentAlreadyExists	The EIP is already bound to a CVM.
UnsupportedOperation.AttachmentNotFound	The binding relationship does not exist.
UnsupportedOperation.BandwidthNotExpired	Unable to delete the current CCN instance: its monthly-subscribed bandwidth does not expire.
UnsupportedOperation.BandwidthPackageIdNotSupported	This bandwidth package does not support this operation.
UnsupportedOperation.BindEIP	EIP has already been bound.



UnsupportedOperation.CIDRUnsupportedClassicLink	The specified VPC CIDR range does not support Classiclink.
UnsupportedOperation.CcnAttached	The instance is already associated with a CCN.
UnsupportedOperation.CcnCrossAccount	You cannot associated the CCN instance with resources under other Tencent Cloud accounts.
UnsupportedOperation.CcnHasFlowLog	This CCN instance cannot be deleted as it has flow logs.
UnsupportedOperation.CcnNotAttached	The instance is not associated with a CCN.
UnsupportedOperation.CcnOrdinaryAccountRefuseAttach	In cross-account association, instances under an Auto-Driving Cloud account cannot be associated with CCNs created under an ordinary account.
UnsupportedOperation.CcnRouteTableNotExist	The specified route table does not exist.
UnsupportedOperation.CdcSubnetNotSupportUnLocalGateway	CDC subnet can only create a route to the local gateway.
UnsupportedOperation.ClassicInstanceIdAlreadyExists	The instance has already been bound to the VPC.
UnsupportedOperation.ClbPolicyExceedLimit	Reached the upper limit of security group policies of the load balancer.
UnsupportedOperation.ClbPolicyLimit	Public network CLB does not support this policy.
UnsupportedOperation.ConflictWithDockerRoute	The IP range overlaps with that of the TKE container under the VPC.
UnsupportedOperation.DCGatewayNatRuleExists	Unable to delete: There're NAT rules associated with this direct connect gateway. Please delete all NAT rules first.
UnsupportedOperation.DcGatewaysNotFoundInVpc	No direct connect gateway exists in the specified VPC.

UnsupportedOperation.DelDefaultRoute	Unable to delete: This is the default route table.
UnsupportedOperation.DelRouteWithSubnet	Unable to delete: This is a route table associated with a subnet.
UnsupportedOperation.DeleteVpnConnInvalidState	
UnsupportedOperation.DirectConnectGatewayIsUpdatingCommunity	Direct connect gateway is updating the BGP Community attribute.
UnsupportedOperation.DisabledNotifyCcn	The specified routing policy cannot be re-published to CCN. Please first withdraw it from CCN.
UnsupportedOperation.DpdkNatFlowLogOnlySupportAllTrafficType	To create a DPDK NAT flow log, the collection type must be <code>All</code> .
UnsupportedOperation.DuplicatePolicy	The security group policies are repeated.
UnsupportedOperation.Ecmp	ECMP is not supported.
UnsupportedOperation.EcmpWithCcnRoute	Form an ECMP with the CCN route.
UnsupportedOperation.EcmpWithUserRoute	Form an ECMP with the user's custom routes.
UnsupportedOperation.EnableMulticast	Multi-cast is not available in the current region.
UnsupportedOperation.EndPointService	The endpoint service itself cannot be set as the endpoint.
UnsupportedOperation.FlowLogInstanceExisted	u200dThere is already a flow log created for the specified ResourceId.
UnsupportedOperation.FlowLogsNotSupportKoInstanceEni	Unable to create a flow log: the current ENI is bound with a KO model.
UnsupportedOperation.FlowLogsNotSupportNullInstanceEni	Unable to create a flow log: the current ENI is not bound to an instance.
UnsupportedOperation.IncorrectAddressResourceType	This type of address does not support this operation.

UnsupportedOperation.InstanceAndRtbNotMatch	The configured instance does not match with the route table.
UnsupportedOperation.InstanceCdclidNotMatchCcnCdclid	
UnsupportedOperation.InstanceMismatch	The specified instance resource does not match.
UnsupportedOperation.InstanceOrdinaryAccountRefuseAttach	In cross-account association, instances under an ordinary account cannot be associated with CCNs created under an Auto-Driving Cloud account.
UnsupportedOperation.InstanceStateNotSupported	This operation is not supported by the status of the instance bound with the IP address.
UnsupportedOperation.InsufficientFunds	Insufficient account balance.
UnsupportedOperation.InvalidAction	Unsupported operation.
UnsupportedOperation.InvalidAddressInternetChargeType	This operation is not allowed under the network billing mode of the IP address.
UnsupportedOperation.InvalidAddressState	This operation is not supported by the IP address status.
UnsupportedOperation.InvalidInstanceState	Invalid instance status.
UnsupportedOperation.InvalidResourceInternetChargeType	This operation is not allowed under this billing mode.
UnsupportedOperation.InvalidResourceProtocol	Bandwidth packages inapplicable to this protocol
UnsupportedOperation.InvalidState	Invalid resource status.
UnsupportedOperation.InvalidStatusNotifyCcn	The current status of the route does not support publishing to CCN. Please retry later.
UnsupportedOperation.IsNotFinanceAccount	The account of the instance associated with the current CCN is not a Financial Cloud account.
UnsupportedOperation.IspNotSupported	This ISP does not support this

	operation.
UnsupportedOperation.LocalGatewayAlreadyExists	The specified CDC instance already has a local gateway.
UnsupportedOperation.LockedResources	
UnsupportedOperation.ModifyAddressAttribute	The account does not support modifying this attribute of the public IP.
UnsupportedOperation.MultipleVpcNotSupportAttachAccountHasIpv6	
UnsupportedOperation.MutexOperationTaskRunning	The resource mutual exclusion operation is being executed.
UnsupportedOperation.NatGatewayEipNotExists	The public IP of the NAT gateway does not exist.
UnsupportedOperation.NatGatewayHadEipUnassociate	There are IPs associated with this NAT gateway.
UnsupportedOperation.NatGatewayRulePipExists	The private IP specified in the SNAT/DNAT forwarding rule has been bound with another rule.
UnsupportedOperation.NatGatewaySnatPipNeedVm	The private IP of the SNAT translation rule must be within the IP range of the VM ENI.
UnsupportedOperation.NatGatewaySnatRuleNotExists	The SNAT forwarding rule of the NAT gateway does not exist.
UnsupportedOperation.NatGatewayTypeNotSupportSNAT	The specified NAT Gateway type does not support configuring a SNAT rule.
UnsupportedOperation.NatNotSupported	The NAT instance does not support this operation.
UnsupportedOperation.NormalSubnetNotSupportLocalGateway	The specified subnet does not support creating a route to the local gateway.
UnsupportedOperation.NotLockedInstanceOperation	This operation is not allowed because the current instance is blocked.

UnsupportedOperation.NotMatchTargetService	The target service specified does not match the one specified in the IP application.
UnsupportedOperation.NotPendingCcnInstance	Unsupported operation: the current CCN instance is not in "Applying" status.
UnsupportedOperation.NotPostpaidCcnOperation	Unsupported operation: the current CCN instance is not billed on a pay-as-you-go basis.
UnsupportedOperation.NotSupportAttachEdgeAndCrossBorderInstance	A CCN instance cannot be associated with an edge instance and a cross-boarder instance at the same time.
UnsupportedOperation.NotSupportDeleteDefaultRouteTable	The default route table cannot be deleted.
UnsupportedOperation.NotSupportedAddressIpsChargeType	This type of addresses cannot be released.
UnsupportedOperation.NotSupportedPurchaseCenterEgressResource	
UnsupportedOperation.NotSupportedUpdateCcnRoutePublish	The current CCN instance does not support publishing update routes.
UnsupportedOperation.NotifyCcn	The specified routing policy cannot be published to or withdrawn from CCN.
UnsupportedOperation.OfflineChargeType	This billing mode is disused. Please try another billing mode.
UnsupportedOperation.OnlySupportProfessionKafka	Only the Ckafka Pro Edition is supported.
UnsupportedOperation.PrepaidCcnOnlySupportInterRegionLimit	The monthly subscription CCN instance only supports the inter-region bandwidth limit.
UnsupportedOperation.PrimaryIp	The specified value is a primary IP.
UnsupportedOperation.PublicIpAddressDisassociate	At least one EIP exists on the NAT gateway, and the EIP cannot be unbound.

UnsupportedOperation.PublicIpAddressIsNotBGPIp	The EIP bound to the NAT gateway is not a BGP IP.
UnsupportedOperation.PublicIpAddressIsNotExisted	The EIP bound to the NAT gateway does not exist.
UnsupportedOperation.PublicIpAddressNotBilledByTraffic	The EIP bound to the NAT gateway is not bill-by-traffic.
UnsupportedOperation.PurchaseLimit	The current account can not use this service in the current region.
UnsupportedOperation.RecordExists	This record already exists.
UnsupportedOperation.RecordNotExists	The record does not exist.
UnsupportedOperation.ResourceIsInvalidState	Operation prohibited: The resource is not available.
UnsupportedOperation.ResourceMismatch	The resource ID entered does not match with any resource bound with the IP. Check and try again.
UnsupportedOperation.RoleNotFound	No roles available. Please confirm whether you get the authorization for the role.
UnsupportedOperation.RouteTableHasSubnetRule	The routing table is bound to a subnet.
UnsupportedOperation.SnapshotAttached	This instance is already associated with a snapshot policy.
UnsupportedOperation.SnapshotBackupTypeModify	Snapshot backup policy cannot be modified.
UnsupportedOperation.SnapshotFileFailed	Failed to generate the snapshot file.
UnsupportedOperation.SnapshotFileNoExist	The snapshot file is expired or has been deleted.
UnsupportedOperation.SnapshotFileProcessing	Generating the snapshot file... Please check again later.
UnsupportedOperation.SnapshotInstanceRegionDiff	Batch association only supports instances in the same region.
UnsupportedOperation.SnapshotNotAttached	The instance is not associated with

	any snapshot policy.
UnsupportedOperation.SnatSubnet	The SNAT subnet does not support assigning IPs.
UnsupportedOperation.SpecialEndPointService	The endpoint created by the specified endpoint service cannot be bound to a security group.
UnsupportedOperation.SubEniNotSupportTrunking	The relayed ENI does not support this operation.
UnsupportedOperation.SubnetNotExists	The subnet does not exist.
UnsupportedOperation.SystemRoute	System route. Operation is prohibited.
UnsupportedOperation.TagAllocate	Tags are being assigned.
UnsupportedOperation.TagFree	Tags are being released.
UnsupportedOperation.TagNotPermit	Unauthorized for this tag.
UnsupportedOperation.TagSystemReservedTagKey	The specified tag key is reserved for system usage.
UnsupportedOperation.UinNotFound	The account ID does not exist.
UnsupportedOperation.UnableCrossBorder	Cross border is not supported.
UnsupportedOperation.UnableCrossFinance	The current CCN cannot be associated with a Financial Cloud instance.
UnsupportedOperation.UnassignCidrBlock	IPv6 IP range is not assigned.
UnsupportedOperation.UnbindEIP	EIP is not bound.
UnsupportedOperation.UnpaidOrderAlreadyExists	Overdue payments are found under this account. Please complete the payment first.
UnsupportedOperation.UnsupportedBindLocalZoneEIP	Binding the EIPs specified in <code>LocalZone</code> is not supported.
UnsupportedOperation.UnsupportedInstanceFamily	The specified instance type does not support ENIs.
UnsupportedOperation.UnsupportedRegion	The service is not available in this

	country/region.
UnsupportedOperation.UserAndCcnChargeTypeNotMatch	The selected CCN instance cannot be created because the payment type is not supported.
UnsupportedOperation.VersionMismatch	The specified version number of the security group policy is inconsistent with the latest version.
UnsupportedOperation.VpcMismatch	The resources are not in the same VPC.
UnsupportedOperation.VpnConnInvalidState	Operation failed: The tunnel is not available now.
UnsupportedOperation.VpnGwVpIdMustHave	
UnsupportedOperation.ZoneMismatch	The specified resources are not in the same availability zone.
VpcLimitExceeded	The maximum number of VPC resource requests for the specified region has been reached.