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Welcome to Tencent Cloud Virtual Private Cloud (VPC). VPC helps you build an independent network space on Tencent Cloud, and allows you to customize IP ranges, IP addresses, and routing policies. You can call the APIs described in this documentation to perform operations on VPC, such as creating a VPC or creating a subnet. For more information about supported operations, see API Overview. Before you use VPC APIs, make sure that you fully understand the VPC product overview and operation guide.

⚠️ **Note**: All VPC APIs in this section have been upgraded to API 3.0. Future VPC features will also be added here. We recommend using API 3.0. Legacy APIs remain available, but will not be updated. For more information, please see VPC API Overview (legacy).
## API Category

Last updated: 2020-05-15 11:11:49

### Cloud Connect Network APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>AcceptAttachCcnInstances</td>
<td>Accepts instance association to a CCN</td>
</tr>
<tr>
<td>AttachCcnInstances</td>
<td>Associates an instance with a CCN</td>
</tr>
<tr>
<td>CreateCcn</td>
<td>Creates a CCN</td>
</tr>
<tr>
<td>DeleteCcn</td>
<td>Deletes a CCN</td>
</tr>
<tr>
<td>DescribeCcnAttachedInstances</td>
<td>Queries the list of instances associated with a CCN</td>
</tr>
<tr>
<td>DescribeCcnRoutes</td>
<td>Queries the CCN routing policy</td>
</tr>
<tr>
<td>DescribeCcns</td>
<td>Queries the CCN list</td>
</tr>
<tr>
<td>DetachCcnInstances</td>
<td>Unbinds instances from a CCN</td>
</tr>
<tr>
<td>DisableCcnRoutes</td>
<td>Disables CCN routes</td>
</tr>
<tr>
<td>EnableCcnRoutes</td>
<td>Enables CCN routes</td>
</tr>
<tr>
<td>ModifyCcnAttribute</td>
<td>Modifies CCN attributes</td>
</tr>
<tr>
<td>ModifyCcnRegionBandwidthLimitsType</td>
<td>Modifies the bandwidth limit policy of a postpaid instance</td>
</tr>
<tr>
<td>RejectAttachCcnInstances</td>
<td>Rejects instance association</td>
</tr>
<tr>
<td>ResetAttachCcnInstances</td>
<td>Re-applies for the instance association</td>
</tr>
<tr>
<td>SetCcnRegionBandwidthLimits</td>
<td>Sets the outbound bandwidth cap of each CCN region</td>
</tr>
</tbody>
</table>

### Direct Connect Gateway APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateDirectConnectGatewayCcnRoutes</td>
<td>Creates the CCN route of a Direct Connect gateway</td>
</tr>
<tr>
<td>DeleteDirectConnectGatewayCcnRoutes</td>
<td>Deletes CCN routes of a Direct Connect gateway</td>
</tr>
<tr>
<td>DescribeDirectConnectGatewayCcnRoutes</td>
<td>Queries the CCN routes of a Direct Connect gateway</td>
</tr>
<tr>
<td>ReplaceDirectConnectGatewayCcnRoutes</td>
<td>Replaces the CCN routes of a Direct Connect gateway</td>
</tr>
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</table>

### EIP APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllocateAddresses</td>
<td>Creates an EIP</td>
</tr>
<tr>
<td>AssociateAddress</td>
<td>Binds an Elastic IP</td>
</tr>
<tr>
<td>DescribeAddressQuota</td>
<td>Queries EIP quotas</td>
</tr>
<tr>
<td>DescribeAddresses</td>
<td>Queries the EIP list</td>
</tr>
<tr>
<td>DescribeSecurityGroupReferences</td>
<td>Queries referred security groups</td>
</tr>
<tr>
<td>DescribeTaskResult</td>
<td>Queries the async job execution results</td>
</tr>
</tbody>
</table>
### API Name | Feature
---|---
**DisassociateAddress** | Unbinds an EIP
**ModifyAddressAttribute** | Modifies EIP attributes
**ModifyAddressInternetChargeType** | Adjusts EIP billing modes
**ModifyAddressesBandwidth** | Modifies the EIP bandwidth
**ReleaseAddresses** | Releases the EIP
**TransformAddress** | Switches an ordinary IP to an EIP

### ENI APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AssignIpv6Addresses</strong></td>
<td>Assigns an IPv6 address</td>
</tr>
<tr>
<td><strong>AssignPrivateIpAddresses</strong></td>
<td>Applies for private IPs for an ENI</td>
</tr>
<tr>
<td><strong>AssociateNetworkInterfaceSecurityGroups</strong></td>
<td>Attaches a security group to an ENI.</td>
</tr>
<tr>
<td><strong>AttachNetworkInterface</strong></td>
<td>Binds an ENI to a CVM</td>
</tr>
<tr>
<td><strong>CreateNetworkInterface</strong></td>
<td>Creates an ENI</td>
</tr>
<tr>
<td><strong>DeleteNetworkInterface</strong></td>
<td>Deletes an ENI</td>
</tr>
<tr>
<td><strong>DescribeNetworkInterfaceLimit</strong></td>
<td></td>
</tr>
<tr>
<td><strong>DescribeNetworkInterfaces</strong></td>
<td>Queries the ENI list</td>
</tr>
<tr>
<td><strong>DetachNetworkInterface</strong></td>
<td>Unbinds an ENI from a CVM</td>
</tr>
<tr>
<td><strong>DisassociateNetworkInterfaceSecurityGroups</strong></td>
<td>Detaches a security group from an ENI.</td>
</tr>
<tr>
<td><strong>MigrateNetworkInterface</strong></td>
<td>Migrates an ENI</td>
</tr>
<tr>
<td><strong>MigratePrivateIpAddress</strong></td>
<td>Migrates private IPs of an ENI</td>
</tr>
<tr>
<td><strong>ModifyIpv6AddressesAttribute</strong></td>
<td>Modifies the IPv6 address attributes of an ENI</td>
</tr>
<tr>
<td><strong>ModifyNetworkInterfaceAttribute</strong></td>
<td>Modifies an ENI</td>
</tr>
<tr>
<td><strong>ModifyPrivateIpAddressAttribute</strong></td>
<td>Modifies the private IP information of an ENI</td>
</tr>
<tr>
<td><strong>UnassignIpv6Addresses</strong></td>
<td>Releases IPv6 addresses</td>
</tr>
<tr>
<td><strong>UnassignPrivateIpAddress</strong></td>
<td>Returns the private IPs of an ENI</td>
</tr>
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### Gateway Flow Monitor APIs

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<th>API Name</th>
<th>Feature</th>
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<tbody>
<tr>
<td><strong>DescribeGatewayFlowQos</strong></td>
<td>Queries the QoS bandwidth limit of inbound IP flow in a gateway.</td>
</tr>
<tr>
<td><strong>DisableGatewayFlowMonitor</strong></td>
<td>Disables gateway flow monitor</td>
</tr>
<tr>
<td><strong>EnableGatewayFlowMonitor</strong></td>
<td>Enables gateway traffic monitoring</td>
</tr>
<tr>
<td><strong>ModifyGatewayFlowQos</strong></td>
<td>Adjusts the QoS bandwidth limit in a gateway</td>
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</tbody>
</table>

### Highly Available Virtual IP APIs
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<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateHaVip</td>
<td>Creates the HAVIP</td>
</tr>
<tr>
<td>DeleteHaVip</td>
<td>Deletes an HAVIP</td>
</tr>
<tr>
<td>DescribeHaVips</td>
<td>Queries the HAVIP list</td>
</tr>
<tr>
<td>HaVipAssociateAddressIp</td>
<td>Binds an EIP to an HAVIP</td>
</tr>
<tr>
<td>HaVipDisassociateAddressIp</td>
<td>Unbinds an EIP from HAVIP</td>
</tr>
<tr>
<td>ModifyHaVipAttribute</td>
<td>Modifies HAVIP attributes</td>
</tr>
</tbody>
</table>

### NAT Gateway APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateNatGateway</td>
<td>Creates a NAT gateway</td>
</tr>
<tr>
<td>CreateNatGatewayDestinationIpPortTranslationNatRule</td>
<td>Creates a port forwarding rule for a NAT gateway</td>
</tr>
<tr>
<td>DeleteNatGateway</td>
<td>Deletes a NAT gateway</td>
</tr>
<tr>
<td>DeleteNatGatewayDestinationIpPortTranslationNatRule</td>
<td>Deletes a port forwarding rule for a NAT gateway</td>
</tr>
<tr>
<td>DescribeNatGatewayDestinationIpPortTranslationNatRules</td>
<td>Queries the port forwarding rule of a NAT gateway</td>
</tr>
<tr>
<td>DescribeNatGateways</td>
<td>Queries a NAT gateway</td>
</tr>
<tr>
<td>DisassociateNatGatewayAddress</td>
<td>Unbinds an EIP from a NAT gateway</td>
</tr>
<tr>
<td>ModifyNatGatewayAttribute</td>
<td>Modifies the attributes of a NAT gateway</td>
</tr>
<tr>
<td>ModifyNatGatewayDestinationIpPortTranslationNatRule</td>
<td>Modifies a port forwarding rule for a NAT gateway</td>
</tr>
<tr>
<td>ResetNatGatewayConnection</td>
<td>Adjusts the concurrent connection cap for the NAT gateway</td>
</tr>
</tbody>
</table>

### Network ACL APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssociateNetworkAclSubnets</td>
<td>Associates a network ACL with subnets</td>
</tr>
<tr>
<td>CreateNetworkAcl</td>
<td>Creates a network ACL</td>
</tr>
<tr>
<td>DeleteNetworkAcl</td>
<td>Deletes a network ACL</td>
</tr>
<tr>
<td>DescribeNetworkAcl</td>
<td>Queries a list of network ACLs</td>
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<tr>
<td>DisassociateNetworkAclSubnets</td>
<td>Disassociates a network ACL from subnets</td>
</tr>
<tr>
<td>ModifyNetworkAclAttribute</td>
<td>Modifies network ACL attributes</td>
</tr>
<tr>
<td>ModifyNetworkAclEntries</td>
<td>Modifies network ACL rules</td>
</tr>
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</table>

### Network Detection-Related APIs

<table>
<thead>
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<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>CheckNetDetectState</td>
<td>CheckNetDetectState</td>
</tr>
<tr>
<td>CreateNetDetect</td>
<td>CreateNetDetect</td>
</tr>
<tr>
<td>DeleteNetDetect</td>
<td>DeleteNetDetect</td>
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</table>
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<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateAddressTemplate</td>
<td>Creates an IP address template</td>
</tr>
<tr>
<td>CreateAddressTemplateGroup</td>
<td>Creates an IP address template group</td>
</tr>
<tr>
<td>CreateServiceTemplate</td>
<td>Creates a protocol port template</td>
</tr>
<tr>
<td>CreateServiceTemplateGroup</td>
<td>Creates a protocol port template group</td>
</tr>
<tr>
<td>DeleteAddressTemplate</td>
<td>Deletes an IP address template</td>
</tr>
<tr>
<td>DeleteAddressTemplateGroup</td>
<td>Deletes an IP address template group</td>
</tr>
<tr>
<td>DeleteServiceTemplate</td>
<td>Deletes a protocol port template</td>
</tr>
<tr>
<td>DeleteServiceTemplateGroup</td>
<td>Deletes a protocol port template group</td>
</tr>
<tr>
<td>DescribeAddressTemplateGroups</td>
<td>Queries an IP address template group</td>
</tr>
<tr>
<td>DescribeAddressTemplates</td>
<td>Queries an IP address template</td>
</tr>
<tr>
<td>DescribeServiceTemplateGroups</td>
<td>Queries a protocol port template group</td>
</tr>
<tr>
<td>DescribeServiceTemplates</td>
<td>Queries a protocol port template</td>
</tr>
<tr>
<td>ModifyAddressTemplateAttribute</td>
<td>Modifies an IP address template</td>
</tr>
<tr>
<td>ModifyAddressTemplateGroupAttribute</td>
<td>Modifies an IP address template group</td>
</tr>
<tr>
<td>ModifyServiceTemplateAttribute</td>
<td>Modifies a protocol port template</td>
</tr>
<tr>
<td>ModifyServiceTemplateGroupAttribute</td>
<td>Modifies a protocol port template group</td>
</tr>
</tbody>
</table>

## Other APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>DescribeGatewayFlowMonitorDetail</td>
<td>Queries the monitoring details of a gateway</td>
</tr>
</tbody>
</table>

## Route Table APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateRouteTable</td>
<td>Creates a route table</td>
</tr>
<tr>
<td>CreateRoutes</td>
<td>Creates a routing policy</td>
</tr>
<tr>
<td>DeleteRouteTable</td>
<td>Deletes a route table</td>
</tr>
<tr>
<td>DeleteRoutes</td>
<td>Deletes a routing policy</td>
</tr>
<tr>
<td>DescribeRouteTables</td>
<td>Queries the route table list</td>
</tr>
<tr>
<td>ModifyRouteTableAttribute</td>
<td>Modifies route table attributes</td>
</tr>
<tr>
<td>API Name</td>
<td>Feature</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------------------------------------------------------------</td>
</tr>
<tr>
<td>ReplaceRouteTableAssociation</td>
<td>Replaces the association relation of a route table</td>
</tr>
<tr>
<td>ReplaceRoutes</td>
<td>Replaces a routing policy</td>
</tr>
<tr>
<td>ResetRoutes</td>
<td>Resets the names and routing policies of route tables</td>
</tr>
</tbody>
</table>

### Security Group APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateSecurityGroup</td>
<td>Creates a security group</td>
</tr>
<tr>
<td>CreateSecurityGroupPolicies</td>
<td>Adds policies to a security group</td>
</tr>
<tr>
<td>CreateSecurityGroupWithPolicies</td>
<td>Creates security groups and policies</td>
</tr>
<tr>
<td>DeleteSecurityGroup</td>
<td>Deletes a security group</td>
</tr>
<tr>
<td>DeleteSecurityGroupPolicies</td>
<td>Deletes security group policies</td>
</tr>
<tr>
<td>DescribeSecurityGroupAssociationStatistics</td>
<td>Queries statistics on the instances associated with a security group</td>
</tr>
<tr>
<td>DescribeSecurityGroupPolicies</td>
<td>Queries security group policies</td>
</tr>
<tr>
<td>DescribeSecurityGroups</td>
<td>Queries security groups</td>
</tr>
<tr>
<td>ModifySecurityGroupAttribute</td>
<td>Modifies security group attributes</td>
</tr>
<tr>
<td>ModifySecurityGroupPolicies</td>
<td>Modifies the outbound and inbound policies of a security group</td>
</tr>
<tr>
<td>ReplaceSecurityGroupPolicy</td>
<td>Replaces a single routing policy of a security group</td>
</tr>
</tbody>
</table>

### Subnet APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssignIpv6SubnetCidrBlock</td>
<td>Assigns an IPv6 subnet IP range</td>
</tr>
<tr>
<td>CreateSubnet</td>
<td>Creates a subnet</td>
</tr>
<tr>
<td>CreateSubnets</td>
<td>Creates subnets in batches</td>
</tr>
<tr>
<td>DeleteSubnet</td>
<td>Deletes a subnet</td>
</tr>
<tr>
<td>DescribeSubnets</td>
<td>Queries the subnet list</td>
</tr>
<tr>
<td>ModifySubnetAttribute</td>
<td>Modifies subnet attributes</td>
</tr>
<tr>
<td>UnassignIpv6SubnetCidrBlock</td>
<td>Releases the IPv6 subnet IP range</td>
</tr>
</tbody>
</table>

### VPC APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssignIpv6CidrBlock</td>
<td>Assigns an IPv6 IP range</td>
</tr>
<tr>
<td>AttachClassicLinkVpc</td>
<td>Creates a Classiclink</td>
</tr>
<tr>
<td>CheckAssistantCidr</td>
<td>Checks secondary CIDR block overlaps</td>
</tr>
<tr>
<td>CreateAssistantCidr</td>
<td>Creates secondary CIDR blocks</td>
</tr>
<tr>
<td>CreateDefaultVpc</td>
<td>Creates a default VPC and subnets</td>
</tr>
<tr>
<td>API Name</td>
<td>Feature</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>CreateVpc</td>
<td>Creates a VPC</td>
</tr>
<tr>
<td>DeleteAssistantCidr</td>
<td>Deletes secondary CIDR blocks</td>
</tr>
<tr>
<td>DeleteVpc</td>
<td>Deletes a VPC</td>
</tr>
<tr>
<td>DescribeAccountAttributes</td>
<td>Queries account attributes</td>
</tr>
<tr>
<td>DescribeAssistantCidr</td>
<td>Queries a list of secondary CIDR blocks</td>
</tr>
<tr>
<td>DescribeClassicLinkInstances</td>
<td>Queries the list of Classiclink</td>
</tr>
<tr>
<td>DescribeVpcInstances</td>
<td>Queries a list of VCM instances on VPC</td>
</tr>
<tr>
<td>DescribeVpcIpv6Addresses</td>
<td>Queries the IPv6 list of a VPC</td>
</tr>
<tr>
<td>DescribeVpcPrivatelpAddresses</td>
<td>Queries the private IP information of a VPC</td>
</tr>
<tr>
<td>DescribeVpcs</td>
<td>Queries the VPC list</td>
</tr>
<tr>
<td>DetachClassicLinkVpc</td>
<td>Deletes a Classiclink</td>
</tr>
<tr>
<td>ModifyAssistantCidr</td>
<td>Modifies secondary CIDR blocks.</td>
</tr>
<tr>
<td>ModifyVpcAttribute</td>
<td>Modifies VPC attributes</td>
</tr>
<tr>
<td>Unassignipv6CidrBlock</td>
<td>Releases IPv6 IP range.</td>
</tr>
</tbody>
</table>

### VPN Gateway APIs

<table>
<thead>
<tr>
<th>API Name</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateCustomerGateway</td>
<td>Creates a customer gateway</td>
</tr>
<tr>
<td>CreateVpnConnection</td>
<td>Creates a VPN tunnel</td>
</tr>
<tr>
<td>CreateVpnGateway</td>
<td>Creates a VPN gateway</td>
</tr>
<tr>
<td>DeleteCustomerGateway</td>
<td>Deletes a customer gateway</td>
</tr>
<tr>
<td>DeleteVpnConnection</td>
<td>Deletes VPN tunnels</td>
</tr>
<tr>
<td>DeleteVpnGateway</td>
<td>Deletes a VPN gateway</td>
</tr>
<tr>
<td>DescribeCustomerGatewayVendors</td>
<td>Queries the information of supported customer gateway vendors</td>
</tr>
<tr>
<td>DescribeCustomerGateways</td>
<td>Queries customer gateways</td>
</tr>
<tr>
<td>DescribeVpcResourceDashboard</td>
<td>Queries the VPC resource information</td>
</tr>
<tr>
<td>DescribeVpnConnections</td>
<td>Queries the VPN tunnel list</td>
</tr>
<tr>
<td>DescribeVpnGatewayCcnRoutes</td>
<td>Querying VPN gateway-based CCN routes</td>
</tr>
<tr>
<td>DescribeVpnGateways</td>
<td>Queries VPN gateways</td>
</tr>
<tr>
<td>DownloadCustomerGatewayConfiguration</td>
<td>Downloads a VPN tunnel configuration</td>
</tr>
<tr>
<td>InquiryPriceCreateVpnGateway</td>
<td>Queries the price for VPN gateway creation</td>
</tr>
<tr>
<td>InquiryPriceRenewVpnGateway</td>
<td>Queries the price for VPN gateway renewal</td>
</tr>
<tr>
<td>InquiryPriceResetVpnGatewayInternetMaxBandwidth</td>
<td>Queries the price for adjusting the bandwidth cap of a VPN gateway</td>
</tr>
<tr>
<td>ModifyCustomerGatewayAttribute</td>
<td>Modifies a customer gateway</td>
</tr>
<tr>
<td>ModifyVpnConnectionAttribute</td>
<td>Modifies the VPN tunnel</td>
</tr>
<tr>
<td>ModifyVpnGatewayAttribute</td>
<td>Modifies VPN gateway attributes</td>
</tr>
<tr>
<td>API Name</td>
<td>Feature</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>ModifyVpnGatewayCcRoutes</td>
<td>Modifying VPN gateway-based CCN routes</td>
</tr>
<tr>
<td>RenewVpnGateway</td>
<td>Renews a VPN gateway</td>
</tr>
<tr>
<td>ResetVpnConnection</td>
<td>Resets a VPN tunnel</td>
</tr>
<tr>
<td>ResetVpnGatewayInternetMaxBandwidth</td>
<td>Adjusts the bandwidth cap of a VPN gateway</td>
</tr>
</tbody>
</table>
Making API Requests
Request Structure

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:

<table>
<thead>
<tr>
<th>Hosted region</th>
<th>Domain name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local access region (recommended, only for non-financial availability zones)</td>
<td>vpc.tencentcloudapi.com</td>
</tr>
<tr>
<td>South China (Guangzhou)</td>
<td>vpc.ap-guangzhou.tencentcloudapi.com</td>
</tr>
<tr>
<td>East China (Shanghai)</td>
<td>vpc.ap-shanghai.tencentcloudapi.com</td>
</tr>
<tr>
<td>North China (Beijing)</td>
<td>vpc.ap-beijing.tencentcloudapi.com</td>
</tr>
<tr>
<td>Southwest China (Chengdu)</td>
<td>vpc.ap-chengdu.tencentcloudapi.com</td>
</tr>
<tr>
<td>Southwest China (Chongqing)</td>
<td>vpc.ap-chongqing.tencentcloudapi.com</td>
</tr>
<tr>
<td>Hong Kong, Macao, Taiwan (Hong Kong, China)</td>
<td>vpc.ap-hongkong.tencentcloudapi.com</td>
</tr>
<tr>
<td>Southeast Asia (Singapore)</td>
<td>vpc.ap-singapore.tencentcloudapi.com</td>
</tr>
<tr>
<td>Southeast Asia (Bangkok)</td>
<td>vpc.ap-bangkok.tencentcloudapi.com</td>
</tr>
<tr>
<td>South Asia (Mumbai)</td>
<td>vpc.ap-mumbai.tencentcloudapi.com</td>
</tr>
<tr>
<td>Northeast Asia (Seoul)</td>
<td>vpc.ap-seoul.tencentcloudapi.com</td>
</tr>
<tr>
<td>Northeast Asia (Tokyo)</td>
<td>vpc.ap-tokyo.tencentcloudapi.com</td>
</tr>
<tr>
<td>U.S. East Coast (Virginia)</td>
<td>vpc.na-ashburn.tencentcloudapi.com</td>
</tr>
<tr>
<td>U.S. West Coast (Silicon Valley)</td>
<td>vpc.na-siliconvalley.tencentcloudapi.com</td>
</tr>
<tr>
<td>North America (Toronto)</td>
<td>vpc.na-toronto.tencentcloudapi.com</td>
</tr>
<tr>
<td>Europe (Frankfurt)</td>
<td>vpc.eu-frankfurt.tencentcloudapi.com</td>
</tr>
<tr>
<td>Europe (Moscow)</td>
<td>vpc.eu-moscow.tencentcloudapi.com</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Access region for financial availability zone</th>
<th>Domain name for financial availability zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>East China (Shanghai Finance)</td>
<td>vpc.ap-shanghai-fsi.tencentcloudapi.com</td>
</tr>
<tr>
<td>South China (Shenzhen Finance)</td>
<td>vpc.ap-shenzhen-fsi.tencentcloudapi.com</td>
</tr>
</tbody>
</table>

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

Last updated: 2020-04-03 13:07:59

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.

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:

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-TC-Action</td>
<td>String</td>
<td>Yes</td>
<td>The name of the API for the desired operation. For the specific value, see the description of common parameter Action in the input parameters in related API documentation. For example, the API for querying the CVM instance list is DescribeInstances.</td>
</tr>
<tr>
<td>X-TC-Region</td>
<td>String</td>
<td>Yes</td>
<td>Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter Region in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even it is passed.</td>
</tr>
<tr>
<td>X-TC-Timestamp</td>
<td>Integer</td>
<td>Yes</td>
<td>The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. Note: If the difference between the UNIX timestamp and the server time is greater than 5 minutes, a signature expiration error may occur.</td>
</tr>
<tr>
<td>X-TC-Version</td>
<td>String</td>
<td>Yes</td>
<td>API version of the action. For the valid values, see the description of the common input parameter Version in the API documentation. For example, the version of CVM is 2017-03-12.</td>
</tr>
<tr>
<td>Authorization</td>
<td>String</td>
<td>Yes</td>
<td>The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request, SignedHeaders=content-type;host, Signature=5da7a331f6993f0614b047a5df4582d9b9bf4672ba595678ba9ed0c174c474 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the Secretid; Date is a date in UTC time, and this value must match the value of X-TC-Timestamp (a common parameter) in UTC time format; service is the name of the product/service, and is generally a domain name prefix. For example, a domain name cvm.tencentcloudapi.com refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication information; content-type and host are the required headers; - Signature: Signature digest.</td>
</tr>
<tr>
<td>X-TC-Token</td>
<td>String</td>
<td>No</td>
<td>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.</td>
</tr>
</tbody>
</table>

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=AKIDz8krbsJ5yKBZQpn74WFkaLpx3EXAMPLE/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a331f6993f0614b047a5df4582d9b9bf4672ba595678ba9ed0c174c474

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=582c400e065924a6f2b5d7d672d79c15b13162d9279b8855c1fba6789a86d04C
Content-Type: application/json
Host: cvm.tencentcloudapi.com
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=582c400e065924a6f2b5d7d672d79c15b13162d9279b8855c1fba6789a86d04C
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Region: ap-guangzhou

--58731222010402
Content-Disposition: form-data; name="Offset"
0
--58731222010402
Content-Disposition: form-data; name="Limit"
10
--58731222010402--

Signature Algorithm v1

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>String</td>
<td>Yes</td>
<td>The name of the API for the desired operation. For the specific value, see the description of common parameter Action in the input parameters in related API documentation. For example, the API for querying the CVM instance list is DescribeInstances.</td>
</tr>
<tr>
<td>Region</td>
<td>String</td>
<td>Yes</td>
<td>Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter Region in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.</td>
</tr>
<tr>
<td>Timestamp</td>
<td>Integer</td>
<td>Yes</td>
<td>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.</td>
</tr>
<tr>
<td>Nonce</td>
<td>Integer</td>
<td>Yes</td>
<td>A random positive integer used along with Timestamp to prevent replay attacks.</td>
</tr>
<tr>
<td>SecretId</td>
<td>String</td>
<td>Yes</td>
<td>The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).</td>
</tr>
<tr>
<td>Signature</td>
<td>String</td>
<td>Yes</td>
<td>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.</td>
</tr>
<tr>
<td>Version</td>
<td>String</td>
<td>Yes</td>
<td>API version of the action. For the valid values, see the description of the common input parameter Version in the API documentation. For example, the version of CVM is 2017-03-12.</td>
</tr>
<tr>
<td>SignatureMethod</td>
<td>String</td>
<td>No</td>
<td>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.</td>
</tr>
<tr>
<td>Parameter Name</td>
<td>Type</td>
<td>Required</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>------------</td>
<td>----------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Token</td>
<td>String</td>
<td>No</td>
<td>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.</td>
</tr>
</tbody>
</table>

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:

```none
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527673348&Signature=37ac2f4fde80b0ac9bd9eadeb459b1bbee22415866e7ae5fca46b78b2181d83&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:

```none
https://cvm.tencentcloudapi.com/

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

Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527673348&Signature=37ac2f4fde80b0ac9bd9eadeb459b1bbee22415866e7ae5fca46b78b2181d83&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

**Region List**

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

<table>
<thead>
<tr>
<th>Region</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southeast Asia Pacific (Bangkok)</td>
<td>ap-bangkok</td>
</tr>
<tr>
<td>North China (Beijing)</td>
<td>ap-beijing</td>
</tr>
<tr>
<td>Southwest China (Chengdu)</td>
<td>ap-chengdu</td>
</tr>
<tr>
<td>Southwest China (Chongqing)</td>
<td>ap-chongqing</td>
</tr>
<tr>
<td>South China (Guangzhou)</td>
<td>ap-guangzhou</td>
</tr>
<tr>
<td>South China (Guangzhou Open)</td>
<td>ap-guangzhou-open</td>
</tr>
<tr>
<td>Hong Kong/Macao/Taiwan (Hong Kong, China)</td>
<td>ap-hongkong</td>
</tr>
<tr>
<td>South Asia Pacific (Mumbai)</td>
<td>ap-mumbai</td>
</tr>
<tr>
<td>East China (Nanjing)</td>
<td>ap-nanjing</td>
</tr>
<tr>
<td>Northeast Asia Pacific (Seoul)</td>
<td>ap-seoul</td>
</tr>
<tr>
<td>East China (Shanghai)</td>
<td>ap-shanghai</td>
</tr>
<tr>
<td>East China (Shanghai Finance)</td>
<td>ap-shanghai-fsi</td>
</tr>
<tr>
<td>South China (Shenzhen Finance)</td>
<td>ap-shenzhen-fsi</td>
</tr>
<tr>
<td>Southeast Asia Pacific (Singapore)</td>
<td>ap-singapore</td>
</tr>
<tr>
<td>Northeast Asia Pacific (Tokyo)</td>
<td>ap-tokyo</td>
</tr>
<tr>
<td>Europe (Frankfurt)</td>
<td>eu-frankfurt</td>
</tr>
<tr>
<td>Europe (Moscow)</td>
<td>eu-moscow</td>
</tr>
<tr>
<td>Eastern U.S. (Virginia)</td>
<td>na-ashburn</td>
</tr>
<tr>
<td>Region</td>
<td>Value</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Western U.S. (Silicon Valley)</td>
<td>na-siliconvalley</td>
</tr>
<tr>
<td>North America (Toronto)</td>
<td>na-toronto</td>
</tr>
</tbody>
</table>

**Signature**

Last updated: 2020-03-06 20:27:48
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: AKIDz8krbsj5yKBZQpn74WFkmLPx3EXAMPLE
- SecretKey: Gu5t9xGARNpq86cd98joYCN3EXAMPLE

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:

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Description</th>
<th>Parameter value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Method name</td>
<td>DescribeInstances</td>
</tr>
<tr>
<td>SecretId</td>
<td>Key ID</td>
<td>AKIDz8krbsj5yKBZQpn74WFkmLPx3EXAMPLE</td>
</tr>
<tr>
<td>Timestamp</td>
<td>Current timestamp</td>
<td>1465185768</td>
</tr>
<tr>
<td>Nonce</td>
<td>Random positive integer</td>
<td>11886</td>
</tr>
<tr>
<td>Region</td>
<td>Region where the instance is located</td>
<td>ap-guangzhou</td>
</tr>
<tr>
<td>InstanceIds.0</td>
<td>ID of the instance to query</td>
<td>ins-09dx96dg</td>
</tr>
<tr>
<td>Offset</td>
<td>Offset</td>
<td>0</td>
</tr>
<tr>
<td>Limit</td>
<td>Allowed maximum output</td>
<td>20</td>
</tr>
<tr>
<td>Version</td>
<td>API version number</td>
<td>2017-03-12</td>
</tr>
</tbody>
</table>

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:

```json
{
    'Action' : 'DescribeInstances',
```
'InstanceId.0' : 'ins-09dx96dg',
'Limit' : 20,
'Nonce' : 11886,
'Offset' : 0,
'Region' : 'ap-guangzhou',
'SecretId' : 'AKIDz8krbsJ5yKBZ0qn74WFknLPx3EXAMPLE',
'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:

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>DescribeInstances</td>
</tr>
<tr>
<td>InstanceIds.0</td>
<td>ins-09dx96dg</td>
</tr>
<tr>
<td>Limit</td>
<td>20</td>
</tr>
<tr>
<td>Nonce</td>
<td>11886</td>
</tr>
<tr>
<td>Offset</td>
<td>0</td>
</tr>
<tr>
<td>Region</td>
<td>ap-guangzhou</td>
</tr>
<tr>
<td>SecretId</td>
<td>AKIDz8krbsJ5yKBZ0qn74WFknLPx3EXAMPLE</td>
</tr>
<tr>
<td>Timestamp</td>
<td>1465185768</td>
</tr>
<tr>
<td>Version</td>
<td>2017-03-12</td>
</tr>
</tbody>
</table>

### 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:

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>DescribeInstances</td>
</tr>
<tr>
<td>InstanceIds.0</td>
<td>ins-09dx96dg</td>
</tr>
<tr>
<td>Limit</td>
<td>20</td>
</tr>
<tr>
<td>Nonce</td>
<td>11886</td>
</tr>
<tr>
<td>Offset</td>
<td>0</td>
</tr>
<tr>
<td>Region</td>
<td>ap-guangzhou</td>
</tr>
<tr>
<td>SecretId</td>
<td>AKIDz8krbsJ5yKBZ0qn74WFknLPx3EXAMPLE</td>
</tr>
<tr>
<td>Timestamp</td>
<td>1465185768</td>
</tr>
<tr>
<td>Version</td>
<td>2017-03-12</td>
</tr>
</tbody>
</table>

### 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:

```php
$secretKey = 'Gu5t9xGARnpq86cd98jo0YCN3EXAMPLE';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceId.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZ0qn74WFknLPx3EXAMPLE&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
```

The final signature is:

EliP9YW3pW28FpsEdkXt/+WcGeI=

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 `EliP9YW3pW28FposEdkXtj+WcGeI=`, the final signature string request parameter (Signature) is `EliP9YW3pW28FposEdkXt%2f%2bWcGeI%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.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Error description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthFailure.SignatureExpire</td>
<td>The signature is expired</td>
</tr>
<tr>
<td>AuthFailure.SecretIdNotFound</td>
<td>The key does not exist</td>
</tr>
<tr>
<td>AuthFailure.SignatureFailure</td>
<td>Signature error</td>
</tr>
<tr>
<td>AuthFailure.TokenFailure</td>
<td>Token error</td>
</tr>
<tr>
<td>AuthFailure.InvalidSecretId</td>
<td>Invalid key (not a TencentCloud API key type)</td>
</tr>
</tbody>
</table>

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
- JavaScript
- .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=AKIDz8krbsJ5yKBZQpn74WFkmLPxjEXAMPLE&Signature=EliP9YW3pW28FposEdkXt%2f%2bWcGeI%3D&Timestamp=1465185768&Version=2017-03-12.

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

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

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

Java

```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 enables 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 example: params.put("Timestamp", System.currentTimeMillis() / 1000);
        params.put("Timestamp", 1465185768); // Common parameter
        params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE"); // Common parameter
        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("InstanceId.0", "ins-09dx96dg"); // Business parameter
        params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpo85cd98joQYCN3EXAMPLE", "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 = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE"
secret_key = "Gu5t9xGARNpo85cd98joQYCN3EXAMPLE"

def get_string_to_sign(method, endpoint, params):
    s = method + endpoint + "/"
    return s
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',
    'InstanceId.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)
## Responses

### 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:

```json
{
    "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:

```json
{
    "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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthFailure.InvalidSecretId</td>
<td>Invalid key (not a TencentCloud API key type).</td>
</tr>
<tr>
<td>AuthFailure.MFAFailure</td>
<td>MFA failed.</td>
</tr>
<tr>
<td>AuthFailure.SecretIdNotFound</td>
<td>The key does not exist.</td>
</tr>
<tr>
<td>AuthFailure.SignatureExpire</td>
<td>Signature expired.</td>
</tr>
<tr>
<td>AuthFailure.SignatureFailure</td>
<td>Signature error.</td>
</tr>
<tr>
<td>AuthFailure.TokenFailure</td>
<td>Token error.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AuthFailure.UnauthorizedOperation</td>
<td>The request does not have CAM authorization.</td>
</tr>
<tr>
<td>DryRunOperation</td>
<td>DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.</td>
</tr>
<tr>
<td>FailedOperation</td>
<td>Operation failed.</td>
</tr>
<tr>
<td>InternalError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>InvalidAction</td>
<td>The API does not exist.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Incorrect parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit exceeded.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>A parameter is missing.</td>
</tr>
<tr>
<td>NoSuchVersion</td>
<td>The API version does not exist.</td>
</tr>
<tr>
<td>RequestLimitExceeded</td>
<td>The number of requests exceeds the frequency limit.</td>
</tr>
<tr>
<td>ResourceInUse</td>
<td>Resource is in use.</td>
</tr>
<tr>
<td>ResourceInsufficient</td>
<td>Insufficient resource.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>ResourceUnavailable</td>
<td>Resource is unavailable.</td>
</tr>
<tr>
<td>UnauthorizedOperation</td>
<td>Unauthorized operation.</td>
</tr>
<tr>
<td>UnknownParameter</td>
<td>Unknown parameter.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
<tr>
<td>UnsupportedProtocol</td>
<td>HTTPS request method error. Only GET and POST requests are supported.</td>
</tr>
<tr>
<td>UnsupportedRegion</td>
<td>API does not support the requested region.</td>
</tr>
</tbody>
</table>
Route Table-Related APIs
CreateRouteTable

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateRouteTable.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>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.</td>
</tr>
<tr>
<td>RouteTableName</td>
<td>Yes</td>
<td>String</td>
<td>The route table name. The maximum length is 60 characters.</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>Bound tags, such as [&quot;Key&quot;: &quot;city&quot;, &quot;Value&quot;: &quot;shanghai&quot;].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RouteTable</td>
<td>RouteTable</td>
<td>Route table object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating a route table

Input Example

https://vpc.tencentcloudapi.com/?Action=CreateRouteTable
&Version=2017-03-12
&RouteTableName=TestRouteTable
&VpcId=vpc-2at5y1pn
Output Example

```json
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "RouteTable": {
      "RouteTableId": "rtb-azd4dt1c",
      "VpcId": "vpc-2at5yp1n",
      "RouteTableName": "TestRouteTable",
      "AssociationSet": [],
      "RouteSet": [],
      "Main": false,
      "TagSet": [
        {
          "Key": "city",
          "Value": "shanghai"
        }
      ]
    }
  }
}
```

5. Developer Resources

**API Explorer**

This tool allows online call, signature authentication, SDK code generation and quick search of APIs to greatly improve the efficiency of using TencentCloud APIs.

- API 3.0 Explorer

**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

**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (CreateRoutes) is used to create a routing policy.

- You can create routing policies in batch for a specified route table.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>Yes</td>
<td>String</td>
<td>Route table instance ID.</td>
</tr>
<tr>
<td>Routes.N</td>
<td>Yes</td>
<td>Array of Route</td>
<td>Routing policy object.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of newly added instances.</td>
</tr>
<tr>
<td>RouteTableSet</td>
<td>Array of RouteTable</td>
<td>Route table object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Creating a routing policy**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=CreateRoutes
&Version=2017-03-12
&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>
```
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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.CidrNotInPeerVpc</td>
<td>The destination IP address range is not within the CIDR range of the the customer VPC.</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.VpcCidrConflict</td>
<td>Destination IP address range conflicts with CIDR of the current VPC.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
<tr>
<td>UnsupportedOperation.ConflictWithDockerRoute</td>
<td>The IP range overlaps with that of the TKE container under the VPC.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>UnsupportedOperation.Ecmp</td>
<td>ECMP is not supported.</td>
</tr>
<tr>
<td>UnsupportedOperation.EcmpWithCcnRoute</td>
<td>Form an ECMP with the CCN route.</td>
</tr>
<tr>
<td>UnsupportedOperation.EcmpWithUserRoute</td>
<td>Form an ECMP with the user’s custom routes.</td>
</tr>
<tr>
<td>UnsupportedOperation.SystemRoute</td>
<td>System route. Operation is prohibited.</td>
</tr>
</tbody>
</table>
DeleteRouteTable

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteRouteTable.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>Yes</td>
<td>String</td>
<td>The route table instance ID, such as rtb-azd4dt1c.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Deleting a route table**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DeleteRouteTable
&Version=2017-03-12
&RouteTableId=rtb-azd4dt1c
&<Common Request Parameters>
```

**Output Example**

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

5. Developer Resources

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- Tencent Cloud SDK 3.0 for .NET

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DeleteRoutes

Last updated: 2020-03-06 20:26:38

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>Yes</td>
<td>String</td>
<td>Route table instance ID.</td>
</tr>
<tr>
<td>Routes.N</td>
<td>Yes</td>
<td>Array of Route</td>
<td>Routing policy object.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Deleting a routing policy**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DeleteRoutes
&Version=2017-03-12
&RouteTableId=rtb-n0yejvje
&Routes.0.RouteId=16644
&{Common Request Parameters}
```

**Output Example**

```json
{
  "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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.SystemRoute</td>
<td>System route. Operation is prohibited.</td>
</tr>
</tbody>
</table>
DescribeRouteTables

Last updated: 2020-05-15 11:12:17

1. API Description

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

This API (DescribeRouteTables) is used to query route tables.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeRouteTables.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>RouteTableIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The route table instance ID, such as rtb-azd4dt1c .</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. RouteTableIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- route-table-id - String - (Filter condition) Route table instance ID.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- route-table-name - String - (Filter condition) Route table name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- vpc-id - String - (Filter condition) VPC instance ID, such as vpc-f49l6u0z .</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- association.main - String - (Filter condition) Whether it is the main route table.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- tag-key - String - Required: No - (Filter condition) Filter by tag key.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- tag:tag-key - String - Required: No - (Filter condition) Filter by tag key-value pair. The tag-key is replaced with the specific tag key. For usage, refer to case 2.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>String</td>
<td>Offset.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>String</td>
<td>The number of request objects.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>Number of eligible instances.</td>
</tr>
<tr>
<td>RouteTableSet</td>
<td>Array of RouteTable</td>
<td>Route table object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Views the object list in a route table

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeRouteTables
&Version=2017-03-12
Output Example

```
{
  "Response": {
    "RouteTableSet": [
      {
        "VpcId": "vpc-2at5y1pn",
        "RouteTableId": "rtb-l2h8d7c2",
        "RouteTableName": "TestRouteTable",
        "AssociationSet": [],
        "RouteSet": [{
          "RouteId": 14915,
          "DestinationCidrBlock": "169.254.64.0/23",
          "GatewayType": "NORMAL_CVM",
          "GatewayId": "172.16.0.25",
          "RouteDescription": ""
        }, {
          "RouteId": 14916,
          "DestinationCidrBlock": "10.254.64.0/24",
          "GatewayType": "NORMAL_CVM",
          "GatewayId": "172.16.0.26",
          "RouteDescription": ""
        }, {
          "RouteId": 14917,
          "DestinationCidrBlock": "10.254.100.0/24",
          "GatewayType": "NORMAL_CVM",
          "GatewayId": "172.16.0.26",
          "RouteDescription": "whoIam"
        }, {
          "RouteId": 16642,
          "DestinationCidrBlock": "10.200.0.0/16",
          "GatewayType": "PEERCONNECTION",
          "GatewayId": "pcx-4n2e594s",
          "RouteDescription": "bb"
        }]
      }, {
        "Main": false,
        "CreatedTime": "2017-06-30 19:52:03"
      }]
    }

    "TotalCount": 16
  }
`
Output Example

```json
{
  "Response": {
    "RouteTableSet": [
      {
        "VpcId": "vpc-2at5y1pm",
        "RouteTableId": "rtb-l2h8d7c2",
        "RouteTableName": "TestRouteTable",
        "AssociationSet": [],
        "RouteSet": [
          {
            "RouteId": "14915",
            "DestinationCidrBlock": "169.254.64.0/23",
            "GatewayType": "NORMAL_CVM",
            "GatewayId": "172.16.0.25",
            "RouteDescription": ""
          },
          {
            "RouteId": "14916",
            "DestinationCidrBlock": "10.254.64.0/24",
            "GatewayType": "NORMAL_CVM",
            "GatewayId": "172.16.0.26",
            "RouteDescription": ""
          },
          {
            "RouteId": "14917",
            "DestinationCidrBlock": "10.254.100.0/24",
            "GatewayType": "NORMAL_CVM",
            "GatewayId": "172.16.0.26",
            "RouteDescription": "whoIam"
          },
          {
            "RouteId": "16842",
            "DestinationCidrBlock": "10.200.0.0/18",
            "GatewayType": "PEERCONNECTION",
            "GatewayId": "pcx-4n2m594s",
            "RouteDescription": "lb"
          }
        ],
        "TagSet": [
          {
            "Key": "city",
            "Value": "shanghai"
          }
        ],
        "Main": false,
        "CreatedTime": "2017-06-30 19:52:03"
      }
    ],
    "TotalCount": 16,
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
ModifyRouteTableAttribute

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyRouteTableAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>Yes</td>
<td>String</td>
<td>The route table instance ID, such as rtb-azd4dt1c.</td>
</tr>
<tr>
<td>RouteTableName</td>
<td>Yes</td>
<td>String</td>
<td>Route table name.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modifying route table attributes

Input Example

https://vpc.tencentcloudapi.com/?Action=ModifyRouteTableAttribute &Version=2017-03-12 &RouteTableId=rtb-n0yejvje &<Common Request Parameters>

Output Example

```json
{
  "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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
ReplaceRouteTableAssociation

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ReplaceRouteTableAssociation.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>Yes</td>
<td>String</td>
<td>Subnet instance ID, such as subnet-3x5f1f5q0. This can be queried using the DescribeSubnets API.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>Yes</td>
<td>String</td>
<td>The route table instance ID, such as rtb-azd4dt1c.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Replacing the association relation of a route table**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=ReplaceRouteTableAssociation
&Version=2017-03-12
&RouteTableId=rtb-n0yejvje
&SubnetId=subnet-q2079ls
&<Common Request Parameters>
```

**Output Example**

```
{
   "Response": {
   "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
   }
}
```
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6. Error Code
The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
ReplaceRoutes

Last updated: 2020-03-06 20:26:35

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ReplaceRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>Yes</td>
<td>String</td>
<td>The route table instance ID, such as rtb-azd4dt1c.</td>
</tr>
<tr>
<td>Routes.N</td>
<td>Yes</td>
<td>Array of Route</td>
<td>Routing policy object. The routing policy ID (RouteId) must be specified.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Replacing a routing policy

Input Example

```
https://vpc.tencentcloudapi.com/?Action=ReplaceRoutes
&Version=2017-03-12
&RouteTableId=rtb-n0yejvje
&Routes.0.RouteId=17125
&Routes.0.DestinationCidrBlock=192.168.0.0/16
&Routes.0.GatewayType=NORMAL_CVM
&Routes.0.GatewayId=172.16.16.37
&Routes.0.RouteDescription=leo-test-CVM-route
&<Common Request Parameters>
```

Output Example

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

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5. Developer Resources

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Command Line Interface
- Tencent Cloud CLI 3.0

6. Error Code
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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.CidrNotInPeerVpc</td>
<td>The destination IP address range is not within the CIDR range of the the customer VPC.</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.VpcCidrConflict</td>
<td>Destination IP address range conflicts with CIDR of the current VPC.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
<tr>
<td>UnsupportedOperation.Ecmp</td>
<td>ECMP is not supported.</td>
</tr>
<tr>
<td>UnsupportedOperation.SystemRoute</td>
<td>System route. Operation is prohibited.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ResetRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>Yes</td>
<td>String</td>
<td>The route table instance ID, such as rtb-n0yejvje.</td>
</tr>
<tr>
<td>RouteTableName</td>
<td>Yes</td>
<td>String</td>
<td>The route table name. The maximum length is 60 characters.</td>
</tr>
<tr>
<td>Routes.N</td>
<td>Yes</td>
<td>Array of Route</td>
<td>Routing policy.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Resetting the route table name and routing policies**

**Input Example**

```python
https://vpc.tencentcloudapi.com/?Action=ResetRoutes
&Version=2017-03-12
&RouteTableId=rtb-n0yejvje
&RouteTableName=ResetRouteTableName
&Routes.0.DestinationCidrBlock=192.168.0.0/16
&Routes.0.GatewayType=NORMAL_CVM
&Routes.0.GatewayId=172.16.16.37
&Routes.0.RouteDescription=test-cvm-route
&<Common Request Parameters>
```

**Output Example**
5. Developer Resources

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<td>Invalid parameter value</td>
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<tr>
<td>InvalidParameterValue.CidrNotInPeerVpc</td>
<td>The destination IP address range is not within the CIDR range of the the customer VPC.</td>
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<td>InvalidParameterValue.Duplicate</td>
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<td>System route. Operation is prohibited.</td>
</tr>
</tbody>
</table>
Network Parameter Template-Related APIs

CreateAddressTemplate

Last updated: 2020-03-06 20:26:53

1. API Description

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

This API (CreateAddressTemplate) is used to create an IP address template.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

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<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateAddressTemplate.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressTemplateName</td>
<td>Yes</td>
<td>String</td>
<td>The name of the IP address template</td>
</tr>
<tr>
<td>Addresses.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>Address information, including IP, CIDR and IP address range.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressTemplate</td>
<td>AddressTemplate</td>
<td>The template object of the IP address.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example 1 Creating an IP address template

**Input Example**

https://vpc.tencentcloudapi.com/?Action=CreateAddressTemplate

&Version=2017-03-12

&AddressTemplateName=TestName

&Addresses.0=192.168.1.0/24

&Addresses.1=192.168.2.0/24

&<Common Request Parameters>

**Output Example**

```json
{
    "Response": {
        "AddressTemplate": {  
```

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</tr>
</thead>
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<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
</tbody>
</table>
CreateAddressTemplateGroup

Last updated: 2020-03-06 20:26:52

1. API Description

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

This API (CreateAddressTemplateGroup) is used to create an IP address template group.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateAddressTemplateGroup.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressTemplateName</td>
<td>Yes</td>
<td>String</td>
<td>The name of the IP address template group.</td>
</tr>
<tr>
<td>AddressTemplateIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The instance ID of the IP address template, such as ipm-mdunqеб6.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressTemplateGroup</td>
<td>AddressTemplateGroup</td>
<td>Group object of the IP address template.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Creating an IP address template group**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=CreateAddressTemplateGroup
&Version=2017-03-12
&AddressTemplateName=TestName
&AddressTemplateIds.0=ipm-88t6207k
&AddressTemplateIds.1=ipm-mdunqeb6
&<Common Request Parameters>
```

**Output Example**

```json
{
  "Response": {
    "AddressTemplateGroup": {
      "AddressTemplateName": "TestName",
      ...
    }
  }
}
```
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<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
**CreateServiceTemplate**

Last updated: 2020-03-06 20:26:52

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

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<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateServiceTemplate.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>ServiceTemplateName</td>
<td>Yes</td>
<td>String</td>
<td>Template name of the protocol port</td>
</tr>
<tr>
<td>Services.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>It supports single port, multiple ports, consecutive ports and all ports. Supported protocols include TCP, UDP, ICMP, and GRE.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ServiceTemplate</td>
<td>ServiceTemplate</td>
<td>Protocol port template object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Creating a protocol port template**

**Input Example**

https://vpc.tencentcloudapi.com/?Action=CreateServiceTemplate
&Version=2017-03-12
&ServiceTemplateName=TestName
&Services.0=TCP:8080
&Services.1=UDP:99
&{Common Request Parameters}>

**Output Example**

```json
{
  "Response": {
    "ServiceTemplate": {
      "ServiceTemplateName": "TestName",
      "ServiceTemplateId": "ppm-bu8cir16",
    }
  }
}
```
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<th>Error Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
</tbody>
</table>
CreateServiceTemplateGroup

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

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<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateServiceTemplateGroup.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>ServiceTemplateGroupName</td>
<td>Yes</td>
<td>String</td>
<td>Group name of the protocol port template.</td>
</tr>
<tr>
<td>ServiceTemplateIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>Instance ID of the protocol port template, such as ppm-4dw6agho.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ServiceTemplateGroup</td>
<td>ServiceTemplateGroup</td>
<td>Group object of the protocol port template.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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

```json
{
  "Response": {
    "ServiceTemplateGroup": {
      "ServiceTemplateGroupName": "TestName",
      "ServiceTemplateGroupId": "groupId",
      ...
    }
  }
}
```
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<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
</tbody>
</table>
DeleteAddressTemplate

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteAddressTemplate.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressTemplateId</td>
<td>Yes</td>
<td>String</td>
<td>The IP address template instance ID, such as ipm-mdunqeb6.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Deleting an IP address template**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=DeleteAddressTemplate
&Version=2017-03-12
&AddressTemplateId=ipm-mdunqeb6
&<Common Request Parameters>
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

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<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.MutexOperationTaskRunning</td>
<td>The resource mutual exclusion operation is being executed.</td>
</tr>
</tbody>
</table>

©2013-2019 Tencent Cloud. All rights reserved.
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteAddressTemplateGroup.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressTemplateGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The IP address template group instance ID, such as ipmg-90cex8eq.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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**

```json
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b046-e1528d5cb239"
  }
}
```

5. Developer Resources

**API Explorer**
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- **API 3.0 Explorer**

**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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DeleteServiceTemplate

Last updated: 2020-03-06 20:26:49

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteServiceTemplate.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>ServiceTemplateId</td>
<td>Yes</td>
<td>String</td>
<td>Protocol port template instance ID, such as ppm-e6dy468g.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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

```json
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

5. Developer Resources

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<tr>
<th>Error Code</th>
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</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DeleteServiceTemplateGroup

Last updated : 2020-03-06 20:26:48

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteServiceTemplateGroup.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>ServiceTemplateGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The protocol port template group instance ID, such as ppmg-n17uxve.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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-e1526d5cb239"
   }
}

5. Developer Resources

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Command Line Interface

- Tencent Cloud CLI 3.0

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<th>Error Code</th>
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</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeAddressTemplateGroups.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter conditions.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>String</td>
<td>Offset. The default value is 0.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>String</td>
<td>Number of values to be returned. The default value is 20. Maximum is 100.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>AddressTemplateGroupSet</td>
<td>Array of AddressTemplateGroup</td>
<td>IP address template.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Querying an IP address template group**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DescribeAddressTemplateGroups
&Version=2017-03-12
&Filters.0.Name=address-template-group-name
&Filters.0.Values.0=TestName
&Filters.1.Name=address-template-group-id
&Filters.1.Values.0=ipmg-mdunqe6
&<Common request parameters>
```
Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "AddressTemplateGroupSet": [
      {
        "AddressTemplateName": "TestName",
        "AddressTemplateGroupId": "ipmg-2uw6ujo6",
        "AddressTemplateIdSet": [
          "ipm-mdunqeb6"
        ],
        "AddressTemplateSet": [
          {
            "AddressTemplateId": "ipm-mdunqeb6",
            "AddressTemplateName": "test"
          }
        ],
        "CreatedTime": "2017-12-31 14:09:13"
      }
    ],
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
</tbody>
</table>
DescribeAddressTemplates

Last updated : 2020-03-06 20:26:46

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeAddressTemplates.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
</tbody>
</table>
| Filters.N      | No       | Array of Filter | Filter conditions.  
|                |          |            | address-template-name - String - (filter condition) IP address template name.  
|                |          |            | address-template-id - String - (filter condition) IP address template instance ID, such as ipm-mdunqeb6.    |
| 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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>AddressTemplateSet</td>
<td>Array of AddressTemplate</td>
<td>IP address template.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying an IP address template

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeAddressTemplates
&Version=2017-03-12
&Filters.0.Name,address-template-name
&Filters.0.Values,0=TemplateName
&Filters.1.Name,address-template-id
&Filters.1.Values,0=ipm-mdunqeb6
&(Common Request Parameters)
5. Developer Resources

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<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
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<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeServiceTemplateGroups.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
</tbody>
</table>
| Filters.N      | No       | Array of Filter | Filter conditions.  
  * service-template-group-name - String - (Filter condition) Protocol port template group name.  
  * service-template-group-id - String - (Filter condition) Protocol port template group instance ID, such as ppmg-e6dy460g. |
| 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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>ServiceTemplateGroupSet</td>
<td>Array of ServiceTemplateGroup</td>
<td>Protocol port template group.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Viewing a protocol port template group**

**Input Example**

```text
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

```json
{
  "Response": {
    "TotalCount": 1,
    "ServiceTemplateGroupSet": [
      {
        "ServiceTemplateName": "TestName",
        "ServiceTemplateGroupId": "ppmg-2klarefu",
        "ServiceTemplateIdSet": [
          "ppm-529nnwj8"
        ],
        "ServiceTemplateSet": [
          {
            "ServiceTemplateId": "ppm-529nnwj8",
            "ServiceTemplateName": "test"
          }
        ],
        "CreatedTime": "2018-04-03 22:05:32"
      }
    ],
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```

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</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
</tbody>
</table>
DescribeServiceTemplates

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

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<th>Parameter Name</th>
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<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeServiceTemplates.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter conditions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• service-template-name - String - (Filter condition) Protocol port template name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• service-template-id - String - (Filter condition) Protocol port template instance ID, such as ppm_e6dy468g.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>String</td>
<td>Offset. The default value is 0.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>String</td>
<td>Number of values to be returned. The default value is 20. Maximum is 100.</td>
</tr>
</tbody>
</table>

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<tr>
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<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>ServiceTemplateSet</td>
<td>Array of ServiceTemplate</td>
<td>Protocol port template object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Viewing the protocol port template

**Input Example**

https://vpc.tencentcloudapi.com/?Action=DescribeServiceTemplates
&Version=2017-03-12
&Filters.0.Name=service-template-name
&Filters.0.Values.0=TestName
&Limit=2
&{Common Request Parameters}
5. Developer Resources

API Explorer

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• API 3.0 Explorer

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
</tbody>
</table>

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyAddressTemplateAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressTemplateId</td>
<td>Yes</td>
<td>String</td>
<td>IP address template instance ID, such as ipm-mdunqeb6.</td>
</tr>
<tr>
<td>AddressTemplateName</td>
<td>No</td>
<td>String</td>
<td>IP address template name.</td>
</tr>
<tr>
<td>Addresses.N</td>
<td>No</td>
<td>Array of String</td>
<td>Address information, including IP, CIDR and IP address range.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Modify IP address template**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=ModifyAddressTemplateAttribute
&Version=2017-03-12
&AddressTemplateId=ipm-mdunqeb6
&AddressTemplateName=TestName
&<common request parameters>
```

**Output Example**

```plaintext
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```
5. Developer Resources

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
ModifyAddressTemplateGroupAttribute

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyAddressTemplateGroupAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressTemplateGroupId</td>
<td>Yes</td>
<td>String</td>
<td>IP address template group instance ID, such as ipmg-2uw6uj06.</td>
</tr>
<tr>
<td>AddressTemplateName</td>
<td>No</td>
<td>String</td>
<td>IP address template group name.</td>
</tr>
<tr>
<td>AddressTemplateIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>IP address template instance ID, such as ipm-mdunqeb6.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modify the address template collection

Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyAddressTemplateGroupAttribute
&Version=2017-03-12
&AddressTemplateGroupId=ipmg-2uw6uj06
&AddressTemplateName=TestName
&<common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "28569756-56ba-4a13-b545-e1528d5cb239"
  }
}
```
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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyServiceTemplateAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>ServiceTemplateId</td>
<td>Yes</td>
<td>String</td>
<td>Protocol port template instance ID, such as ppm-529nwwj8.</td>
</tr>
<tr>
<td>ServiceTemplateName</td>
<td>No</td>
<td>String</td>
<td>Protocol port template name.</td>
</tr>
<tr>
<td>Services.N</td>
<td>No</td>
<td>Array of String</td>
<td>It supports single port, multiple ports, consecutive ports and all ports. Supported protocols include TCP, UDP, ICMP, and GRE.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Modify the protocol port template**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=ModifyServiceTemplateAttribute
&Version=2017-03-12
&ServiceTemplateId=ppm-529nwwj8
&ServiceTemplateName=TestName
&<common request parameters>
```

**Output Example**

```json
{
    "Response": {
        "RequestId": "20569756-56ba-4a13-b545-e1528d5cb239"
    }
}
```
5. Developer Resources

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
ModifyServiceTemplateGroupAttribute

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyServiceTemplateGroupAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>ServiceTemplateGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The protocol port template group instance ID, such as ppmg-ei8hfd9a.</td>
</tr>
<tr>
<td>ServiceTemplateName</td>
<td>No</td>
<td>String</td>
<td>Protocol port template group name.</td>
</tr>
<tr>
<td>ServiceTemplateIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>Instance ID of the protocol port template, such as ppm-4dw6agho.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modify the protocol port template collection

Input Example

```plaintext
https://vpc.tencentcloudapi.com/?Action=ModifyServiceTemplateGroupAttribute
&Version=2017-03-12
&ServiceTemplateGroupId=ppmg-ei8hfd9a
&ServiceTemplateName=TestName
&<common request parameters>
```

Output Example

```json
{
    "Response": {
        "RequestId": "29659756-56ba-4a13-b545-e158d5c0b239"
    }
}
```
5. Developer Resources

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

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</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AllocateAddresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressCount</td>
<td>No</td>
<td>Integer</td>
<td>The number of EIPs. Default: 1.</td>
</tr>
<tr>
<td>InternetServiceProvider</td>
<td>No</td>
<td>String</td>
<td>The EIP line type. Default: BGP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- For a user who has activated the static single-line IP whitelist, possible values are:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- CMCC: China Mobile</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- CTCC: China Telecom</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- CUCC: China Unicom</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Note: Only certain regions support static single-line IP addresses.</td>
</tr>
<tr>
<td>InternetChargeType</td>
<td>No</td>
<td>String</td>
<td>The EIP billing method.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- For a user who has activated bandwidth billing by IP whitelist, possible values are:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- BANDWIDTH_PACKAGE: paid by the bandwidth package (The bandwidth sharing whitelist must be activated additionally.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- BANDWIDTH_POSTPAID_BY_HOUR: bandwidth postpaid by hour</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- TRAFFIC_POSTPAID_BY_HOUR: traffic postpaid by hour</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Default: TRAFFIC_POSTPAID_BY_HOUR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- For users who do not use bill-by-bandwidth billing mode, InternetChargeType is consistent with that of the instance bound to the EIP. Therefore, it is unnecessary to pass in this parameter.</td>
</tr>
<tr>
<td>Parameter Name</td>
<td>Required</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>No</td>
<td>Integer</td>
<td>The maximum EIP outbound bandwidth. Unit: Mbps.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- For a user who has activated bandwidth billing by IP whitelist, the value range is determined by the EIP billing method:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- BANDWIDTH_PACKAGE: 1 Mbps to 1,000 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- BANDWIDTH_POSTPAID_BY_HOUR: 1 Mbps to 100 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- TRAFFIC_POSTPAID_BY_HOUR: 1 Mbps to 100 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Default: 1 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- For a user who has not activated bandwidth billing by IP whitelist, InternetMaxBandwidthOut is consistent with that of the instance bound to the EIP. Therefore, it is unnecessary to pass in this parameter.</td>
</tr>
<tr>
<td>AddressType</td>
<td>No</td>
<td>String</td>
<td>The EIP type. Default: EIP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- For a user who has activated the AIA whitelist, possible values are:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- AnycastEIP: an Anycast EIP address. For more information, see Anycast Internet Acceleration.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Note: Only certain regions support Anycast EIPs.</td>
</tr>
<tr>
<td>AnycastZone</td>
<td>No</td>
<td>String</td>
<td>Anycast publishing region</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Valid for users who have activated AIA. Values:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- ANYCAST_ZONE_GLOBAL: global publishing region</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- ANYCAST_ZONE_OVERSEAS: overseas publishing region</td>
</tr>
<tr>
<td>[Disused]</td>
<td></td>
<td></td>
<td>[Disused] ANYCAST_ZONE_A: publishing region A (updated to ANYCAST_ZONE_GLOBAL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[Disused] ANYCAST_ZONE_B: publishing region B (updated to ANYCAST_ZONE_GLOBAL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Default: ANYCAST_ZONE_OVERSEAS.</td>
</tr>
<tr>
<td>ApplicableForCLB</td>
<td>No</td>
<td>Boolean</td>
<td>Whether the Anycast EIP can be bound to CLB instances.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Valid for users who have activated the AIA. Values:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- TRUE: the Anycast EIP can be bound to CLB instances.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- FALSE: the Anycast EIP can be bound to CVMs, NAT gateways, and HAVIPs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Default: FALSE.</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>List of tags to be bound.</td>
</tr>
<tr>
<td>BandwidthPackageId</td>
<td>No</td>
<td>String</td>
<td>The unique ID of a BGP bandwidth package. If you configure this parameter and set InternetChargeType as BANDWIDTH_PACKAGE, the new EIP is added to this package and billed by the bandwidth package mode.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressSet</td>
<td>Array of String</td>
<td>List of the unique IDs of the requested EIPs.</td>
</tr>
<tr>
<td>TaskId</td>
<td>String</td>
<td>The Async task ID. You can use the DescribeTaskResult API to query the task status.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Creates an Anycast EIP**

You should have activated Anycast Internet Acceleration (AIA) Whitelist service.

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=AllocateAddresses
&AddressCount=1
&AddressType=AnycastEIP
&{Common request parameters}
```
Output Example

{
    "Response": {
        "AddressSet": [
            "eip-m44ku5d2"
        ],
        "TaskId": "61531428",
        "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
    }
}

Example2 Creates a regular IP address

Input Example

https://vpc.tencentcloudapi.com/?Action=AllocateAddresses
&AddressCount=1
&<Common request parameter>

Output Example

{
    "Response": {
        "AddressSet": [
            "eip-m44ku5d2"
        ],
        "TaskId": "61531421",
        "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
    }
}

Example3 Creates a static single-line IP address

You should have activated the service of static single-line IP whitelist.

Input Example

https://vpc.tencentcloudapi.com/?Action=AllocateAddresses
&AddressCount=1
&InternetServiceProvider=CTCC
&<Common request parameter>

Output Example

{
    "Response": {
        "AddressSet": [
            "eip-m44ku5d2"
        ],
        "TaskId": "61531429",
        "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
    }
}

5. Developer Resources

API Explorer

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

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

Command Line Interface
- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressQuotaLimitExceeded</td>
<td>The account quota is reached. Each Tencent Cloud account can create up to 20 EIPs in each region.</td>
</tr>
<tr>
<td>AddressQuotaLimitExceeded.DailyAllocate</td>
<td>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.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (AssociateAddress) is used to bind an Elastic IP (EIP) to an instance or a specified private IP of an ENI.

- Essentially, binding an EIP to an instance means binding an EIP to the primary private IP of the primary ENI on an instance.
- When you bind an EIP to the primary private IP of the primary ENI, the previously bound public IP is automatically unbound and released.
- If the private IP of the specified ENI has been bound to an EIP, you must unbind this EIP before binding a new one.
- EIPs that are in arrears or blocked cannot be bound.
- Only EIPs in the UNBIND status can be bound.

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

Note: This API supports Finance regions. Since Finance regions and non-Finance regions are isolated and not interconnected. If the common parameter Region is a Finance region (such as ap-shanghai-fsi), you need to specify a domain name containing the Finance region that should be identical to the value of Region field, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com.

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AssociateAddress</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressId</td>
<td>Yes</td>
<td>String</td>
<td>The unique ID of an EIP. Example of the unique ID of an EIP: eip-11112222.</td>
</tr>
<tr>
<td>InstanceId</td>
<td>No</td>
<td>String</td>
<td>ID of the instance to be bound to. such as ins-11112222. It can be queried through the console or obtained from the InstanceId field in the returned result of API DescribeInstances.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>No</td>
<td>String</td>
<td>ID of the ENI to be bound to. Example of an ENI ID: eni-11112222. NetworkInterfaceId and InstanceId cannot be specified at the same time. The ENI ID can be queried through the console or obtained from the networkInterfaceId field in the returned value by the API DescribeNetworkInterfaces.</td>
</tr>
<tr>
<td>PrivateIpAddress</td>
<td>No</td>
<td>String</td>
<td>The private IP to be bound to. If NetworkInterfaceId is specified, PrivateIpAddress must also be specified, which means binding an EIP to the specified private IP of the specified ENI. Make sure that the specified PrivateIpAddress is a private IP on the specified NetworkInterfaceId. The private IP of a specified ENI can be queried through the console or obtained from the privateIpAddress field in the returned value by the API DescribeNetworkInterfaces.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidAddressId.Blocked</td>
<td>The specified EIP is blocked. You cannot bind the EIP until it is unblocked.</td>
</tr>
<tr>
<td>InvalidAddressId.NotFound</td>
<td>The specified EIP does not exist.</td>
</tr>
<tr>
<td>InvalidAddressIdState.InArrears</td>
<td>The specified EIP is in arrears.</td>
</tr>
<tr>
<td>InvalidAddressIdStatus.NotPermit</td>
<td>The specified EIP in the current status cannot be bound. Only EIPs in the UNBIND status can be bound.</td>
</tr>
<tr>
<td>InvalidInstance.NotSupported</td>
<td>Unsupported instance.</td>
</tr>
<tr>
<td>InvalidInstanceId.AlreadyBindEip</td>
<td>The specified instance has been bound to an EIP. You need to unbind this EIP before binding another one.</td>
</tr>
<tr>
<td>InvalidInstanceId.NotFound</td>
<td>Invalid instance ID. The specified instance ID does not exist.</td>
</tr>
<tr>
<td>InvalidNetworkInterfaceId.NotFound</td>
<td>The specified NetworkInterfaceId does not exist or the specified PrivateIpAddress is not on the NetworkInterfaceId.</td>
</tr>
<tr>
<td>InvalidParameterConflict</td>
<td>The two parameters conflict with each other, and cannot be both specified. An EIP can only be bound to an instance or a specified private IP of a specified ENI.</td>
</tr>
<tr>
<td>InvalidPrivatIpAddress.AlreadyBindEip</td>
<td>The specified private IP of the specified ENI has been bound to an EIP. A private IP cannot be bound to more than one EIP.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter is missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>MissingResourceId</td>
<td>The entity to be bound to is missing. Either InstanceId or NetworkInterfaceId and PrivatIpAddress must be specified.</td>
</tr>
</tbody>
</table>

5. Example

Example 1 Bind an EIP to an instance

Input example

```plaintext
https://vpc.tencentcloudapi.com/?Action=AssociateAddress
&AddressId=eip-ek0cdz1g
&InstanceId=ins-1bmpb0tu
&<Common request parameters>
```

Output example

```json
{
  "Response": {
    "RequestId": "3c140219-cfe9-470e-b241-907877d6f883"
  }
}
```

6. Other Resources

Cloud API 3.0 comes with the following development tools to make it easier to call the API.

- 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
DescribeSecurityGroupReferences

Last updated : 2020-05-15 11:12:33

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeSecurityGroupReferences.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>A set of security group instance IDs, e.g. ['sg-12345678']</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ReferredSecurityGroupSet</td>
<td>Array of ReferredSecurityGroup</td>
<td>Referred security groups.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Queries referred security groups

Input Example

```plaintext
https://vpc.tencentcloudapi.com/?Action=DescribeSecurityGroupReferences
&Common request parameter>
&SecurityGroupIds.0=sg-12345678
```

Output Example

```json
{
  "Response": {
    "ReferredSecurityGroupSet": [
      {
        "SecurityGroupId": "sg-12345678",
        "ReferredSecurityGroupIds": [
          "sg-23456789",
          "sg-13572468"
        ]
      }
    ]
  }
}
```
5. Developer Resources

**API Explorer**

This tool allows online call, signature authentication, SDK code generation and quick search of APIs to greatly improve the efficiency of using TencentCloud APIs.

- API 3.0 Explorer

**SDK**

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- Tencent Cloud SDK 3.0 for Python
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- Tencent Cloud SDK 3.0 for .NET

**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeAddressQuota

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeAddressQuota.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QuotaSet</td>
<td>Array of Quota</td>
<td>The quota information of EIPs in an account.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying EIP quotas

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeAddressQuota
&<Common Request Parameters>

Output Example

```json
{
"Response": {
"QuotaSet": [
{
"QuotaId": "TOTAL_EIP_QUOTA",
"QuotaCurrent": 0,
"QuotaLimit": 20
},
{
"QuotaId": "DAILY_EIP_APPLY",
"QuotaCurrent": 0,
"QuotaLimit": 40
}
],
"RequestId": "4c50c6a5-1c6b-4031-830f-0956322a3d9c"
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
</tbody>
</table>
DescribeAddresses

Last updated: 2020-03-19 22:34:32

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 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeAddresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The list of unique IDs of EIPs, such as <code>eip-11112222</code>. AddressIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>The upper limit for Filters in each request is 10 and 5 for Filter.Values. AddressIds and Filters cannot be specified at the same time. Detailed filter conditions are as follows:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• address-id - String - Required: no - (Filter condition) The unique EIP ID, such as <code>eip-11112222</code>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• address-name - String - Required: no - (Filter condition) The EIP name. Fuzzy filtering is not supported.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• address-ip - String - Required: no - (Filter condition) Filters by EIP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• address-status - String - Required: no - (Filter condition) The EIP state. Possible EIP states are: 'CREATING', 'BINDING', 'BIND', 'UNBINDING', 'UNBIND', 'OFFLINING', and 'BIND_ENI'.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• instance-id - String - Required: no - (Filter condition) The ID of the instance bound to the EIP, such as <code>ins-11112222</code>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• private-ip-address - String - Required: no - (Filter condition) The private IP address bound to the EIP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• network-interface-id - String - Required: no - (Filter condition) The ID of the ENI bound to the EIP, such as <code>eni-11112222</code>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• is-arrears - String - Required: no - (Filter condition) Whether the EIP is in arrears. (TRUE: the EIP is in arrears</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>The Offset. The default value is 0. For more information on Offset, see the relevant sections in API Overview.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>Number of returned results. The default value is 20. The maximum is 100. For more information on Limit, see the relevant sections in API Overview.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>Number of EIPs meeting the condition.</td>
</tr>
<tr>
<td>AddressSet</td>
<td>Array of Address</td>
<td>List of EIPs details.</td>
</tr>
</tbody>
</table>
4. Example

Example1 Querying EIPs using AddressIds

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeAddresses
&AddressIds.0=eip-hx1qja90
&<Common Request Parameters>

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "AddressSet": [
      {
        "AddressId": "eip-hx1qja90",
        "AddressName": "test",
        "AddressIp": "123.121.34.33",
        "AddressStatus": "BINDED",
        "InstanceId": "ins-m2j0thu6",
        "NetworkInterfaceId": null,
        "PrivateAddressIp": null,
        "IsArrears": false,
        "IsBlocked": false,
        "CreatedTime": "2017-09-12T07:52:00Z"
      }
    ],
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

API Explorer

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

Command Line Interface

- Tencent Cloud CLI 3.0

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeTaskResult.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>TaskId</td>
<td>No</td>
<td>Integer</td>
<td>Async task ID. Either TaskId or DealName must be entered.</td>
</tr>
<tr>
<td>DealName</td>
<td>No</td>
<td>String</td>
<td>Billing order No. Either TaskId or DealName must be entered.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TaskId</td>
<td>Integer</td>
<td>Job ID</td>
</tr>
<tr>
<td>Result</td>
<td>String</td>
<td>The execution results, including SUCCESS, FAILED, and RUNNING</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the execution results of the async job

**Input Example**

```https://vpc.tencentcloudapi.com/?Action=DescribeTaskResult
&TaskId=12566700
&<Common Request Parameters>```

**Output Example**

```json
{
  "Response": {
    "TaskId": 12566700,
    "Result": "SUCCESS",
    "RequestId": "f2e7456b-c189-4396-80ab-1482134a1e52"
  }
}
```

5. Developer Resources

API Explorer
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- Tencent Cloud SDK 3.0 for .NET

**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
</tbody>
</table>
DisassociateAddress

Last updated : 2020-03-06 20:27:24

1. API Description

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

This API (DisassociateAddress) is used to unbind Elastic IPs.

- The unbinding of EIPs from CVM instances and ENIs is supported.
- The unbinding of EIPs from NATs is not supported. For information about how to unbind an EIP from a NAT, see EipUnBindNatGateway.
- You can only unbind EIPs in BIND or BIND_ENI status.
- Blocked EIPs cannot be unbound.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DisassociateAddress.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressId</td>
<td>Yes</td>
<td>String</td>
<td>The unique ID of the EIP, such as eip-11112222.</td>
</tr>
<tr>
<td>ReallocateNormalPublicIp</td>
<td>No</td>
<td>Boolean</td>
<td>Whether a common public IP is assigned after the EIP is unbound. Value range: TRUE: Indicates that after the EIP is unbound, a common public IP is assigned. FALSE: Indicates that after the EIP is unbound, a common public IP is not assigned. Default value: FALSE. The parameter can be specified only under the following conditions: It can only be specified when you unbind an EIP from the primary private IP of the primary ENI. 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://cloud.tencent.com/document/api/213/1378">https://cloud.tencent.com/document/api/213/1378</a>) API.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TaskId</td>
<td>String</td>
<td>The async task ID. You can use the DescribeTaskResult API to query the task status.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Unbinding an EIP**

**Input Example**
Virtual Private Cloud

https://vpc.tencentcloudapi.com/?Action=DisassociateAddress
&AddressId=eip-ek0cdz1g
&{Common request parameters}

Output Example

{
  "Response": {
    "TaskId": "61531411",
    "RequestId": "3c140219-cfe9-470e-b241-987877a6fb03"
  }
}

5. Developer Resources

API Explorer

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- Tencent Cloud SDK 3.0 for .NET

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidAddressIdBlocked</td>
<td>The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.</td>
</tr>
<tr>
<td>InvalidAddressIdNotFound</td>
<td>The specified EIP does not exist.</td>
</tr>
<tr>
<td>InvalidAddressIdStatusNotPermit</td>
<td>The specified EIP cannot be bound in current status. It can only be bound in UNBIND status.</td>
</tr>
<tr>
<td>InvalidInstanceIdNotSupported</td>
<td>This instance is not supported.</td>
</tr>
<tr>
<td>InvalidInstanceIdNotFound</td>
<td>Invalid instance ID. The specified instance ID does not exist.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
</tbody>
</table>
ModifyAddressAttribute

Last updated : 2020-03-06 20:27:23

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyAddressAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressId</td>
<td>Yes</td>
<td>String</td>
<td>The unique ID of the EIP, such as eip-11112222.</td>
</tr>
<tr>
<td>AddressName</td>
<td>No</td>
<td>String</td>
<td>The EIP name after modification. The maximum length is 20 characters.</td>
</tr>
<tr>
<td>EipDirectConnection</td>
<td>No</td>
<td>String</td>
<td>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.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modify EIP's Name

Input Example

https://vpc.tencentcloudapi.com/?Action=ModifyAddressAttribute
&Action=ModifyAddressAttribute
&AddressId=eip-p2x6wxc0
&AddressName=test_eip
&<common request parameters>

Output Example

```json
{
  "Response": {
    "RequestId": "6EF60BEC-0242-43AF-882B-278359FB54A7"
  }
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidAddressId.NotFound</td>
<td>The specified EIP does not exist.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
</tbody>
</table>
ModifyAddressInternetChargeType

Last updated: 2020-05-15 11:12:31

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyAddressInternetChargeType.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressId</td>
<td>Yes</td>
<td>String</td>
<td>Unique EIP ID, such as <em>eip-xxxx</em></td>
</tr>
<tr>
<td>InternetChargeType</td>
<td>Yes</td>
<td>String</td>
<td>The target billing method. It can be BANDWIDTH_PREPAID_BY_MONTH or TRAFFIC_POSTPAID_BY_HOUR</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>Yes</td>
<td>Integer</td>
<td>The target bandwidth value</td>
</tr>
<tr>
<td>AddressChargePrepaid</td>
<td>No</td>
<td>AddressChargePrepaid</td>
<td>Billing details of monthly-subscribed network bandwidth. This parameter is required if the target billing method is BANDWIDTH_PREPAID_BY_MONTH.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example 1 Adjusting EIP billing method

Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyAddressInternetChargeType
&AddressId=eip-f00aojo
&InternetChargeType=TRAFFIC_POSTPAID_BY_HOUR
&InternetMaxBandwidthOut=5
&<Common request parameters>
```
Output Example

```json
{
  "Response": {
    "RequestId": "a3524d83-9f3b-40ee-beb8-3a8144e7d125"
  }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>InvalidAccount.NotSupported</td>
<td>This account is not supported.</td>
</tr>
<tr>
<td>InvalidAddressId.NotFound</td>
<td>The specified EIP does not exist.</td>
</tr>
<tr>
<td>InvalidAddressIdState.InArrears</td>
<td>The specified EIP is in arrears.</td>
</tr>
<tr>
<td>InvalidAddressState</td>
<td>The operation cannot be performed on the specified EIP in current status.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
</tbody>
</table>
ModifyAddressesBandwidth

1. API Description

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

This API (ModifyAddressesBandwidth) is used to adjust Elastic IP bandwidth, including the postpaid EIP, prepaid EIP and bandwidth package EIP. A maximum of 20 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyAddressesBandwidth.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The unique ID of the EIP, such as ‘eip-xxxx’.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>Yes</td>
<td>Integer</td>
<td>Target bandwidth value adjustment</td>
</tr>
<tr>
<td>StartTime</td>
<td>No</td>
<td>Timestamp</td>
<td>The monthly bandwidth start time</td>
</tr>
<tr>
<td>EndTime</td>
<td>No</td>
<td>Timestamp</td>
<td>The monthly bandwidth end time</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TaskId</td>
<td>String</td>
<td>The async task ID. You can use the DescribeTaskResult API to query the task status.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Adjust Postpaid Bandwidth

Input Example

```url
https://vpc.tencentcloudapi.com/?Action=ModifyAddressesBandwidth
&InternetMaxBandwidthOut=2
&AddressIds.0=eip-alfxy9c8
&<common request parameters>
```

Output Example

```json
{
  "Response": {
    "TaskId": "11531422",
    "RequestId": "24cfceab-3492-482c-b86f-27f598b1b044"
  }
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
</tbody>
</table>
ReleaseAddresses

Last updated: 2020-03-06 20:27:23

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ReleaseAddresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>AddressIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The unique ID list of the EIP. The unique ID of an EIP is as follows: eip-11112222.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TaskId</td>
<td>String</td>
<td>The async task ID. You can use the DescribeTaskResult API to query the task status.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Releasing the EIP

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=ReleaseAddresses
&AddressIds.0=eip-gzc5rgr2
&<Common request parameters>
```

**Output Example**

```
{
  "Response": {
    "TaskId": "12331420",
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```
5. Developer Resources

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**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidAddressId.NotFound</td>
<td>The specified EIP does not exist.</td>
</tr>
<tr>
<td>InvalidAddressState</td>
<td>The operation cannot be performed on the specified EIP in current status.</td>
</tr>
</tbody>
</table>
TransformAddress

Last updated: 2020-03-30 16:13:30

1. API Description

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

This API (TransformAddress) is used to switch common public IPs into Elastic IPs.

- The platform limits the number of times that a user can unbind an EIP and reassign public IPs in each region per day. For more information, see EIP product introduction. The preceding quota can be obtained through the DescribeAddressQuota API.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: TransformAddress.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>InstanceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the instance with a common public IP to be operated on, such as ins-11112222. You can query the instance ID by logging into the Console. You can also obtain the parameter value from the InstanceId field in the returned result of DescribeInstances API.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Switching an ordinary IP to an EIP

Input Example

https://eip.tencentcloudapi.com/?Action=TransformAddress
&InstanceId=ins-3ea0e006
&<Common Request Parameters>

Output Example

```json
{
  "Response": {
    "RequestId": "6EF60BEC-0242-43AF-8820-278359FB54A7"
  }
}
```
5. Developer Resources

**API Explorer**
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- API 3.0 Explorer

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- Tencent Cloud SDK 3.0 for .NET

**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressQuotaLimitExceeded</td>
<td>The account quota is reached. Each Tencent Cloud account can create up to 20 EIPs in each region.</td>
</tr>
<tr>
<td>AddressQuotaLimitExceeded.DailyAllocate</td>
<td>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.</td>
</tr>
<tr>
<td>InvalidInstance.NotSupported</td>
<td>This instance is not supported.</td>
</tr>
<tr>
<td>InvalidInstanceId.NotFound</td>
<td>Invalid instance ID. The specified instance ID does not exist.</td>
</tr>
</tbody>
</table>
Cloud Connect Network APIs
AcceptAttachCcnInstances

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AcceptAttachCcnInstances.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f4916u02.</td>
</tr>
<tr>
<td>Instances[N]</td>
<td>Yes</td>
<td>Array of CcnInstance</td>
<td>List of associated instances.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Accepting instance association with a CCN**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=AcceptAttachCcnInstances
&Common Request Parameters>
&CcnId=ccn-gree226i
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1zrr9
&Instances.0.InstanceRegion=ap-guangzhou
```

**Output Example**

```json
{
  "Response": {

```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.CcnNotAttached</td>
<td>The instance is not associated with a CCN.</td>
</tr>
<tr>
<td>UnsupportedOperation.IsNotFinanceAccount</td>
<td>The account of the instance associated with the current CCN is not a Financial Cloud account.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnableCrossFinance</td>
<td>The current CCN cannot be associated with a Financial Cloud instance.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (AttachCcnInstances) is used to load 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 contact online customer service.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AttachCcnInstances.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f49l6u0z.</td>
</tr>
<tr>
<td>Instances.N</td>
<td>Yes</td>
<td>Array of CcnInstance</td>
<td>List of associated network instances</td>
</tr>
<tr>
<td>CcnUin</td>
<td>No</td>
<td>String</td>
<td>The UIN (root account) of the CCN. By default, the current account belongs to the UIN</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Associating multiple network instances with a CCN**

**Input Example**

```xml
https://vpc.tencentcloudapi.com/?Action=AttachCcnInstances
&Action=AttachCcnInstances
&CcnId=ccn-f49l6u0z
&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
```
Output Example

```json
{
    "Response": {
        "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
    }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.CcnAttachBmVpcLimitExceeded</td>
<td>The number of BM VPCs associated with the specified CCN has reached the upper limit.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.CcnAttached</td>
<td>The instance is already associated with a CCN.</td>
</tr>
<tr>
<td>UnsupportedOperation.IsNotFinanceAccount</td>
<td>The account of the instance associated with the current CCN is not a Financial Cloud account.</td>
</tr>
<tr>
<td>UnsupportedOperation.UinNotFound</td>
<td>The account ID does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnableCrossBorder</td>
<td>Cross border is not supported.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnableCrossFinance</td>
<td>The current CCN cannot be associated with a Financial Cloud instance.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API is used to create a Cloud Connect Network (CCN).

- You can bind a tag when creating a CCN instance. The tag list in the response indicates the tags that have been successfully added.
  - Each account can only create a limited number of CCN instances. For more information, see product documentation. To create more instances, contact the online customer service.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateCcn.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnName</td>
<td>Yes</td>
<td>String</td>
<td>The name of the CCN. The maximum length is 60 characters.</td>
</tr>
<tr>
<td>CcnDescription</td>
<td>No</td>
<td>String</td>
<td>The description of the CCN. The maximum length is 100 characters.</td>
</tr>
<tr>
<td>QosLevel</td>
<td>No</td>
<td>String</td>
<td>CCN service quality, 'PT': Platinum, 'AU': Gold, 'AG': Silver. The default is 'AU'.</td>
</tr>
<tr>
<td>InstanceChargeType</td>
<td>No</td>
<td>String</td>
<td>The billing method. POSTPAID: postpaid by traffic. Default: POSTPAID.</td>
</tr>
<tr>
<td>BandwidthLimitType</td>
<td>No</td>
<td>String</td>
<td>The bandwidth limit type. OUTER_REGION_LIMIT: regional outbound limit. INTER_REGION_LIMIT: inter-regional limit. Default: OUTER_REGION_LIMIT.</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>Bound tags, such as [&quot;Key&quot;: &quot;city&quot;, &quot;Value&quot;: &quot;shanghai&quot;].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ccn</td>
<td>CCN</td>
<td>The CCN object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating a CCN

Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateCcn
&{Common request parameters}
```
Output Example

```json
{
  "Response": {
    "Ccn": {
      "CcnId": "ccn-gjug0kul",
      "CcnName": "test name",
      "CcnDescription": "test description",
      "InstanceCount": 0,
      "CreatedTime": "0000-00-00 00:00:00",
      "QosLevel": "PT",
      "InstanceChargeType": "POSTPAID",
      "BandwidthLimitType": "OUTER_REGION_LIMIT",
      "TagSet": [
        {
          "Key": "city",
          "Value": "shanghai"
        }
      ],
      "RequestId": "b8351d12-3c82-4d4b-9d88-972e02ca4620"
    }
  }
}
```

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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>UnsupportedOperation.Insufficientfunds</td>
<td>Insufficient account balance.</td>
</tr>
</tbody>
</table>
DeleteCcn

Last updated : 2020-03-06 20:27:42

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteCcn.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f49i6u82.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deleting a CCN instance

Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteCcn
&Common Request Parameters
&CcnId=ccn-f49i6u82
```

Output Example

```
{
  "Response": { 
  "RequestId": "627c2362-890f-4f9e-9158-5e457b00498b"
  } 
}
```
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6. Error Code

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeCcnAttachedInstances

Last updated: 2020-03-06 20:27:41

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeCcnAttachedInstances.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>The returned quantity</td>
</tr>
</tbody>
</table>
| Filters.N      | No       | Array of Filter | Filter conditions:  
|                |          |          | - ccn-id - String - (Filter condition) The CCN instance ID.  
|                |          |          | - instance-type - String - (Filter condition) The associated instance type.  
|                |          |          | - instance-region - String - (Filter condition) The associated instance region.  
|                |          |          | - instance-type - String - (Filter condition) The instance ID of the associated instance. |
| CcnId           | No       | String  | The ID of the CCN instance |
| OrderField     | No       | String  | The order field supports CcnId, InstanceType, InstanceId, InstanceName, InstanceRegion, AttachedTime, and State. |
| OrderDirection | No       | String  | Order methods. Ascending: ASC, Descending: DESC. |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of objects meeting the condition.</td>
</tr>
<tr>
<td>InstanceSet</td>
<td>Array of CcnAttachedInstance</td>
<td>The list of associated instances.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the list of instances associated with a CCN
Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeCcnAttachedInstances
&Common Request Parameters
&Filters.0.Name=ccn-id
&Filters.0.Values.0=ccn-gree226l
&Filters.1.Name=instance-id
&Filters.1.Values.0=vpc-2u0s99fx
&Filters.1.Values.1=vpc-r1ckkpid
&Filters.1.Values.2=vpc-3dr1zrr9
&Filters.1.Values.3=dcg-98qosdc3
&Filters.1.Values.4=dcg-ni7ps9kb

Output Example

```json
{
  "Response": {
    "InstanceSet": [
      {
        "CcnId": "ccn-gree226l",
        "InstanceType": "VPC",
        "InstanceId": "vpc-2u0s99fx",
        "InstanceName": "test1",
        "InstanceRegion": "ap-guangzhou",
        "InstanceUin": "38059483",
        "CidrBlock": ["10.0.0.0/16"],
        "State": "PENDING"
      },
      {
        "CcnId": "ccn-gree226l",
        "InstanceType": "VPC",
        "InstanceId": "vpc-r1ckkpid",
        "InstanceName": "vpc0420",
        "InstanceRegion": "ap-guangzhou",
        "InstanceUin": "88419914",
        "CidrBlock": ["10.33.0.0/16"],
        "State": "REJECTED"
      },
      {
        "CcnId": "ccn-gree226l",
        "InstanceType": "VPC",
        "InstanceId": "vpc-3dr1zrr9",
        "InstanceName": "10.100.0.0/16",
        "InstanceRegion": "ap-guangzhou",
        "InstanceUin": "979137",
        "CidrBlock": ["10.100.0.0/16"],
        "State": "ACTIVE"
      },
      {
        "CcnId": "ccn-gree226l",
        "InstanceType": "DIRECTCONNECT",
        "InstanceId": "dcg-98qosdc3",
        "InstanceName": "",
        "InstanceRegion": "ap-guangzhou",
        "InstanceUin": "979137",
        "CidrBlock": ["192.168.0.0/24"],
        "State": "ACTIVE"
      },
      {
        "CcnId": "ccn-gree226l",
        "InstanceType": "DIRECTCONNECT",
        "InstanceId": "dcg-ni7ps9kb",
```
5. Developer Resources

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

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- 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.
DescribeCcnRoutes

Last updated: 2020-03-06 20:27:40

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-gree226l.</td>
</tr>
<tr>
<td>RouteIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The unique ID of the CCN routing policy, such as ccnr-f49l6u0z.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. RouteIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>The returned quantity</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of objects meeting the condition.</td>
</tr>
<tr>
<td>RouteSet</td>
<td>Array of CcnRoute</td>
<td>The CCN routing policy object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the CCN route list

Input Example
https://vpc.tencentcloudapi.com/?Action=DescribeCcnRoutes

&\{Common Request Parameters\}
&\{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

Output Example

```javascript
{
 "Response": {
  "RouteSet": [
   {
    "RouteId": "ccnr-bvipc87w",
    "DestinationCidrBlock": "10.33.0.0/24",
    "InstanceType": "VPC",
    "InstanceId": "vpc-r1ckkpid",
    "InstanceName": "vpc0420",
    "InstanceRegion": "ap-guangzhou",
    "InstanceUin": "979137",
    "UpdateTime": "2018-06-21 11:32:29"
   },
   {
    "RouteId": "ccnr-oc61so0o",
    "DestinationCidrBlock": "192.168.0.0/24",
    "InstanceType": "DIRECTCONNECT",
    "InstanceId": "dcg-98qosdc3",
    "InstanceName": "test",
    "InstanceRegion": "ap-guangzhou",
    "InstanceUin": "979137",
    "UpdateTime": "2018-06-21 11:32:29"
   }
  ],
  "TotalCount": 2,
  "RequestId": "6e446c86-d8c9-4981-9b33-d10956585058"
}
}
```

5. Developer Resources

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeCcns

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeCcns.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The CCN instance ID, such as ccn-f49l6u0z. Each request can have a maximum of 100 instances. CcnIds and Filters cannot be specified at the same time</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter conditions. CcnIds and Filters cannot be specified at the same time. Filter conditions:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- ccn-id - String - (Filter condition) The unique ID of the CCN, such as vpc-f49l6u0z.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- ccn-name - String - (Filter condition) The CCN name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- ccn-description - String - (Filter condition) CCN description.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- state - String - (Filter condition) The instance status. 'ISOLATED': Isolated (the account is in arrears and the service is suspended.) 'AVAILABLE': Running.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- tag-key - String - Required: no - (Filter condition) Filters by tag key.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 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.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>The returned quantity</td>
</tr>
<tr>
<td>OrderField</td>
<td>No</td>
<td>String</td>
<td>Order fields support CcnId, CcnName, CreateTime, State, and QosLevel</td>
</tr>
<tr>
<td>OrderDirection</td>
<td>No</td>
<td>String</td>
<td>Order methods. Ascending: ASC, Descending: DESC.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of objects meeting the condition.</td>
</tr>
<tr>
<td>CcnSet</td>
<td>Array of CCN</td>
<td>CCN object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example
Example 1: Querying the CCN list by ID

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeCcns
&<Common request parameters>
&CcnIds.0=ccn-8j0phqix
&CcnIds.1=ccn-gree2261

Output Example

```json
{
  "Response": {
    "CcnSet": [
      {
        "CcnId": "ccn-8j0phqix",
        "CcnName": "test",
        "CcnDescription": "",
        "InstanceCount": 0,
        "CreateTime": "2018-06-10 16:21:35",
        "State": "AVAILABLE"
      },
      {
        "CcnId": "ccn-gree2261",
        "CcnName": "test",
        "CcnDescription": "",
        "InstanceCount": 1,
        "CreateTime": "2018-06-10 22:04:56",
        "State": "ISOLATED"
      }
    ],
    "TotalCount": 2,
    "RequestId": "73150790-39b3-48d8-9d61-29e11ee1ac5d"
  }
}
```

Example 2: Querying the CCN list by name

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeCcns
&<Common request parameters>
&Filters.0.Name=ccn-name
&Filters.0.Values.0=test

Output Example

```json
{
  "Response": {
    "CcnSet": [
      {
        "CcnId": "ccn-8j0phqix",
        "CcnName": "test",
        "CcnDescription": "",
        "InstanceCount": 0,
        "CreateTime": "2018-06-10 16:21:35",
        "State": "AVAILABLE"
      },
      {
        "CcnId": "ccn-gree2261",
        "CcnName": "test",
        "CcnDescription": "",
        "InstanceCount": 1,
        "CreateTime": "2018-06-10 22:04:56",
        "State": "ISOLATED"
      },
      {
        "CcnId": "ccn-nzwnkrgt",
        "CcnName": "test name",
```
Example3 Querying the list of CCNs bound to tags

Query the CCNs bound to the tag key-value pair (env:test).

Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeCcn
&<Common request parameters>
&Filters.0.Name=tag:env
&filters.0.Values.0=test
```

Output Example

```
{
  "Response": {
    "CcnSet": [
      {
        "CcnId": "ccn-nzwnkrgt",
        "CcnName": "test name",
        "CcnDescription": "test description",
        "InstanceCount": 0,
        "CreateTime": "2018-06-18 11:18:30",
        "State": "AVAILABLE",
        "TagSet": [
          {
            "Key": "env",
            "Value": "test"
          },
          {
            "Key": "TAG_TEST",
            "Value": "1111"
          }
        ]
      },
      {
        "CcnId": "ccn-nrych3fn",
        "CcnName": "test name",
        "CcnDescription": "test description",
        "InstanceCount": 0,
        "CreateTime": "2018-06-18 11:20:58",
        "State": "AVAILABLE",
        "TagSet": [
          {
            "Key": "TAG_TEST1",
            "Value": "tag1"
          },
          {
            "Key": "env",
            "Value": "test"
          }
        ]
      }
    ]
  }
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DetachCcnInstances.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f4916u8z.</td>
</tr>
<tr>
<td>Instances.N</td>
<td>Yes</td>
<td>Array of CcnInstance</td>
<td>The list of network instances to be unbound</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Unbinding multiple network instances from a CCN**

**Input Example**

```xml
https://vpc.tencentcloudapi.com/?Action=DetachCcnInstances
&Action=DetchCcnInstances
&CcnId=ccn-gree226l
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr12rr9
&Instances.0.InstanceRegion=ap-guangzhou
&Instances.1.InstanceType=DIRECTCONNECT
&Instances.1.InstanceId=dcg-98qpsdc3
&Instances.1.InstanceRegion=ap-guangzhou
```

**Output Example**
5. Developer Resources

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Command Line Interface

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DisableCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f49l6u0z.</td>
</tr>
<tr>
<td>RouteIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The unique ID of the CCN routing policy, such as ccnr-f49l6u0z.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Disabling multiple routing policies**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=DisableCcnRoutes
&Common Request Parameters>
&CcnId=ccn-gree2261
&RouteIds.0=ccnr-bvipc87w
&RouteIds.1=ccnr-oc61so0b
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "627c2362-890f-419e-9158-5e457b80d48b"
  }
}
```
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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
EnableCcnRoutes
Last updated : 2020-03-06 20:27:36

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: EnableCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f49l6u8z.</td>
</tr>
<tr>
<td>RouteIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The unique ID of the CCN routing policy, such as ccnr-f49l6u8z.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Enabling multiple routing policies

Input Example

https://vpc.tencentcloudapi.com/?Action=EnableCcnRoutes
&Common Request Parameters>
&$CcnId=ccn-gree226l
&RouteIds.0=ccnr-bvipc87w
&RouteIds.1=ccnr-oc61so0o

Output Example

{
    "Response": {
        "RequestId": "627c2362-800f-4f9a-9158-5a457b8040b"
    }
}
5. Developer Resources

API Explorer

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- API 3.0 Explorer

SDK

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- Tencent Cloud SDK 3.0 for .NET

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.Ecmp</td>
<td>ECMP is not supported.</td>
</tr>
</tbody>
</table>
ModifyCcnAttribute

Last updated: 2020-03-06 20:27:35

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyCcnAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f40l6u82.</td>
</tr>
<tr>
<td>CcnName</td>
<td>No</td>
<td>String</td>
<td>The name of the CCN. The maximum length is 60 characters.</td>
</tr>
<tr>
<td>CcnDescription</td>
<td>No</td>
<td>String</td>
<td>The description of the CCN. The maximum length is 100 characters.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modifying the name and description of a CCN

Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyCcnAttribute
&Common Request Parameters>
&CcnId=ccn-gjug0kul
&CcnName=new+name
&CcnDescription=new+description
```

Output Example

```json
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
ModifyCcnRegionBandwidthLimitsType

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyCcnRegionBandwidthLimitsType.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>CCN instance ID.</td>
</tr>
<tr>
<td>BandwidthLimitType</td>
<td>No</td>
<td>String</td>
<td>CCN bandwidth limit type. INTER_REGION_LIMIT: limit between regions. OUTER_REGION_LIMIT: region egress limit.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Changes the bandwidth limit type of a postpaid CCN instance

Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyCcnRegionBandwidthLimitsType
&Version=2017-03-12
&CcnId=ccn-gree2261
&BandwidthLimitType=OUTER_REGION_LIMIT
&<Common request parameter>
```

Output Example

```
{  
  "Response": {  
  "RequestId": "6e4e46c86-d8c9-4981-9c33-d18956585858"
  }  
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
</tbody>
</table>
RejectAttachCcnInstances

Last updated: 2020-03-06 20:27:33

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: RejectAttachCcnInstances.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f4916u0z.</td>
</tr>
<tr>
<td>Instances.N</td>
<td>Yes</td>
<td>Array of CcnInstance</td>
<td>The list of instances whose association is rejected.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Rejecting instance association**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=RejectAttachCcnInstances
&Common Request Parameters>
&CcnId=ccn-gree2261
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1rr9
&Instances.0.InstanceRegion=ap-guangzhou
```

**Output Example**

```
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b80d48b"
  }
}
```
5. Developer Resources

API Explorer
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Command Line Interface

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6. Error Code
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<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.CcnNotAttached</td>
<td>The instance is not associated with a CCN.</td>
</tr>
</tbody>
</table>
ResetAttachCcnInstances

Last updated: 2020-03-06 20:27:33

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ResetAttachCcnInstances.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f49l6u0z.</td>
</tr>
<tr>
<td>CcnUin</td>
<td>Yes</td>
<td>String</td>
<td>The UIN (root account) to which the CCN belongs.</td>
</tr>
<tr>
<td>Instances.N</td>
<td>Yes</td>
<td>Array of CcnInstance</td>
<td>The list of network instances that re-apply for association.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Re-applying for instance association**

**Input Example**

https://vpc.tencentcloudapi.com/?Action=ResetAttachCcnInstances
&Common Request Parameters>
&CcnId=ccn-gree2261
&CcnUin=979137
&Instances.0.InstanceType=VPC
&Instances.0.InstanceId=vpc-3dr1zrr9
&Instances.0.InstanceRegion=ap-guangzhou

**Output Example**
5. Developer Resources

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**Command Line Interface**
- Tencent Cloud CLI 3.0

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</tr>
</thead>
<tbody>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
</tbody>
</table>
### 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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

### 2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: SetCcnRegionBandwidthLimits.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CcnId</td>
<td>Yes</td>
<td>String</td>
<td>The CCN instance ID, such as ccn-f49l6u0z.</td>
</tr>
<tr>
<td>CcnRegionBandwidthLimits.N</td>
<td>Yes</td>
<td>Array of CcnRegionBandwidthLimit</td>
<td>The outbound bandwidth cap of each CCN region.</td>
</tr>
</tbody>
</table>

### 3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

### 4. Example

#### Example1 Setting the outbound bandwidth cap of each CCN region

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=SetCcnRegionBandwidthLimits
&Action=SetCcnRegionBandwidthLimits
&Common Request Parameters
&Region=ap-guangzhou
&CcnId=ccn-f49l6u0z
&CcnRegionBandwidthLimits.0.Region=ap-guangzhou
&CcnRegionBandwidthLimits.0.BandwidthLimit=1000
&CcnRegionBandwidthLimits.1.Region=ap-guangzhou
&CcnRegionBandwidthLimits.1.BandwidthLimit=500
```

**Output Example**

```json
{
    "Response": {
        "RequestId": "0c53ff69-1bb6-4c89-adbb-812233a85acc"
    }
}
```
5. Developer Resources

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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.
ENI APIs
AssociateNetworkInterfaceSecurityGroups

Last updated: 2020-05-15 11:12:28

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AssociateNetworkInterfaceSecurityGroups.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>ENI instance ID, e.g. eni-pxir56ns. You can enter up to 100 instances for each request.</td>
</tr>
<tr>
<td>SecurityGroupIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The security group instance ID, such as sg-33ocnj9n. It can be obtained through DescribeSecurityGroups. You can enter up to 100 instances for each request.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Associates an ENI with security groups

**Input Example**

https://vpc.tencentcloudapi.com/?Action=AssociateNetworkInterfaceSecurityGroups

&NetworkInterfaceIds.0=eni-1a2b3c4d

&SecurityGroupIds.0=sg-1a2b3c4d

&<Common request parameter>

**Output Example**

```
{
  "Response": {
  "RequestId": "f23d1458-ed00-4442-98d4-be409e625a6c"
}
```
5. Developer Resources

API Explorer
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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET

Command Line Interface
- Tencent Cloud CLI 3.0

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
</tbody>
</table>
AssignIpv6Addresses

1. API Description

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

This API (AssignIpv6Addresses) is used to apply for an IPv6 address for the ENI.

This API is completed asynchronously. If you need to query the async execution results, use the RequestId returned by this API to query the QueryTask API.

- An ENI can only be bound with a limited number of IPs. For more information about resource limits, see ENI use limits.
- You can specify the IPv6 address when applying. The address type cannot be the primary IP. Currently, IPv6 can only be supported as the secondary IP.
- The address must be unoccupied and is in the subnet to which the ENI belongs.
- When applying for one to multiple secondary IPv6 addresses on 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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AssignIpv6Addresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as ani-m6dyj72l.</td>
</tr>
<tr>
<td>Ipv6Addresses.N</td>
<td>No</td>
<td>Array of Ipv6Address</td>
<td>A list of IPv6 addresses. You can specify a maximum of 10 at one time. The quota is calculated together with that of Ipv6AddressCount, a required input parameter alternative to this one.</td>
</tr>
<tr>
<td>Ipv6AddressCount</td>
<td>No</td>
<td>Integer</td>
<td>The number of automatically assigned IPv6 addresses. The total number of private IP addresses cannot exceed the quota. The quota is calculated together with that of Ipv6Addresses, a required input parameter alternative to this one.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ipv6AddressSet</td>
<td>Array of Ipv6Address</td>
<td>The list of IPv6 addresses assigned to ENIs.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>
4. Example

Example1 Assigning the specified IPv6 address

Input Example

https://vpc.tencentcloudapi.com/?Action=AssignIpv6Addresses
&NetworkInterfaceId=eni-5u5biujl
&Ipv6Addresses.0.Address=3402:4e00:20:1202::1
&Ipv6Addresses.0.Primary=false
&Ipv6Addresses.0.Description=test1
&Ipv6Addresses.1.Address=3402:4e00:20:1202::2
&Ipv6Addresses.1.Primary=false
&Ipv6Addresses.1.Description=test2
&<Common Request Parameters>

Output Example

{
  "Response": {
    "Ipv6AddressSet": [
      {
        "Address": "3402:4e00:20:1202::1",
        "AddressId": "",
        "Primary": false,
        "PublicIpAddress": "3402:4e00:20:1202::1",
        "Description": "test1",
        "IsWanIpBlocked": false,
        "State": "PENDING"
      },
      {
        "Address": "3402:4e00:20:1202::2",
        "AddressId": "",
        "Primary": false,
        "PublicIpAddress": "3402:4e00:20:1202::2",
        "Description": "test2",
        "IsWanIpBlocked": false,
        "State": "PENDING"
      }
    ],
    "RequestId": "4a8d66eb-bc48-4394-b1f7-2818a27359a"
  }
}

Example2 Assigning IPv6 addresses by number automatically

Input Example

https://vpc.tencentcloudapi.com/?Action=AssignIpv6Addresses
&NetworkInterfaceId=eni-5u5biujl
&Ipv6AddressCount=2
&<Common Request Parameters>

Output Example

{
  "Response": {
    "Ipv6AddressSet": [
      {
        "Address": "3402:4e00:20:1202::1:0:8d05:c272:f514",
        "AddressId": "",
        "Primary": false,
        "PublicIpAddress": "3402:4e00:20:1202::1:0:8d05:c272:f514",
        "Description": "",
        "IsWanIpBlocked": false,
        "State": "PENDING"
      },
      {
        "Address": "3402:4e00:20:1202::2:0:8d05:c272:f514",
        "AddressId": "",
        "Primary": false,
        "PublicIpAddress": "3402:4e00:20:1202::2:0:8d05:c272:f514",
        "Description": "",
        "IsWanIpBlocked": false,
        "State": "PENDING"
      }
    ]
  }
}
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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>LimitExceeded.Address</td>
<td>The number of assigned IP addresses has reached the upper limit.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceInUse.Address</td>
<td>The specified IP address is already in use.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
<tr>
<td>UnsupportedOperation.MutexOperationTaskRunning</td>
<td>The resource mutual exclusion operation is being executed.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnassignCidrBlock</td>
<td>IPv6 IP range is not assigned.</td>
</tr>
</tbody>
</table>
AssignPrivateIpAddresses

1. API Description

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

This API (AssignPrivateIpAddresses) is used for the ENI to apply for private IPs.

- 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 specify the private IP you want to apply for. It cannot be the primary IP, which already exists and cannot be modified. The private IP must be in the same subnet as the ENI, and cannot be occupied.
- 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 of the ENI.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AssignPrivateIpAddresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-06dy72l.</td>
</tr>
<tr>
<td>PrivateIpAddresses.N</td>
<td>No</td>
<td>Array of PrivateIpAddressSpecification</td>
<td>The information on private IP addresses, of which you can specify a maximum of 10 at a time. You should provide either this parameter or SecondaryPrivateIpAddressCount, or both.</td>
</tr>
<tr>
<td>SecondaryPrivateIpAddressCount</td>
<td>No</td>
<td>Integer</td>
<td>The number of newly-applied private IP addresses. You should provide either this parameter or PrivateIpAddresses, or both. The total number of private IP addresses cannot exceed the quota. For more information, see <a href="#">ENI Use Limits</a>.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrivateIpAddressSet</td>
<td>Array of</td>
<td>The detailed information of the Private IP.</td>
</tr>
<tr>
<td></td>
<td>PrivateIpAddressSpecification</td>
<td></td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Applies for private IPs for an ENI**
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceInsufficient</td>
<td>Insufficient resources.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API is used to bind an ENI to a CVM.

- One CVM can be bound to multiple ENIs, but only one primary ENI. For more information on the limits, see ENI Use Limits.
- An ENI can only be bound to one CVM at a time.
- Only CVMs in the running or shutdown state can be bound to an ENI. For more information on CVM states, see Tencent CVM Information.
- An ENI can only be bound to a CVM in a VPC instance, and the CVM must reside in the same availability zone as the subnet of the ENI.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AttachNetworkInterface.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-afo43z6l.</td>
</tr>
<tr>
<td>InstanceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the CVM instance, such as ins-18hr2upy.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Binding an ENI to a CVM

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=AttachNetworkInterface
&Version=2017-03-12
&NetworkInterfaceId=eni-afo43z6l
&InstanceId=ins-18hr2upy
&<Common Request Parameters>
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be469e625e6c"
  }
}
```
5. Developer Resources

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**Command Line Interface**

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.VpcMismatch</td>
<td>The resources are not in the same VPC.</td>
</tr>
</tbody>
</table>
CreateNetworkInterface

1. API Description

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

This API is used to create one or more ENIs.

- 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.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateNetworkInterface.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.</td>
</tr>
<tr>
<td>NetworkInterfaceName</td>
<td>Yes</td>
<td>String</td>
<td>The name of the ENI. The maximum length is 60 characters.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>Yes</td>
<td>String</td>
<td>The subnet instance ID of the ENI, such as subnet-0ap8mca.</td>
</tr>
<tr>
<td>NetworkInterfaceDescription</td>
<td>No</td>
<td>String</td>
<td>ENI description can be named freely, but the maximum length is 60 characters.</td>
</tr>
<tr>
<td>SecondaryPrivateIpAddressCount</td>
<td>No</td>
<td>Integer</td>
<td>The number of private IP addresses that is newly applied for. The total number of private IP addresses cannot exceed the quota.</td>
</tr>
<tr>
<td>SecurityGroupIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>Specifies the security group to be bound with, such as ['sg-1dd51d'].</td>
</tr>
<tr>
<td>PrivatelpAddresses.N</td>
<td>No</td>
<td>Array of PrivatelpAddressSpecification</td>
<td>The information of the specified private IPs. You can specify a maximum of 10 each time.</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>Bound tags, such as [{&quot;Key&quot;: &quot;city&quot;, &quot;Value&quot;: &quot;shanghai&quot;}].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<p>| Parameter Name | Type | Description |
|----------------|------|-------------|-------------|</p>
<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetworkInterface</td>
<td>NetworkInterface</td>
<td>ENI instance.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating an ENI

Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateNetworkInterface
&Version=2017-03-12
&VpcId=vpc-0akbol5v
&SubnetId=subnet-76r8029g
&NetworkInterfaceName=TestNIC
&NetworkInterfaceDescription=TestDesc
&PrivateIpAddress.0.PrivateIpAddress=172.16.64.13
&PrivateIpAddress.0.Primary=true
&SecondaryPrivateIpAddressCount=1
&SecurityGroupIds.0.sg-05b4uhy
&Tags.0.Key=city
&Tags.0.Value=shanghai
&<Common request parameters>
```

Output Example

```
{
"Response": {
"NetworkInterface": {
"NetworkInterfaceId": "eni-irk5qhhl",
"VpcId": "vpc-0akbol5v",
"SubnetId": "subnet-76r8029g",
"NetworkInterfaceName": "TestNIC",
"NetworkInterfaceDescription": "TestDesc",
"PrivateIpAddressSet": [
{
"PrivateIpAddress": "172.16.64.13",
"Primary": true,
"AddressId": "",
"PublicIpAddress": "",
"Description": "",
"IsWanIpBlocked": false,
"State": "PENDING"
}
],
"Attachment": null,
"GroupSet": [],
"Primary": false,
"State": "PENDING",
"Zone": "",
"CreatedTime": "",
"Ipv6AddressSet": [],
"TagSet": [
{
"Key": "city",
"Value": "shanghai"
}
],
"RequestId": "5cf1a813-d4f8-4e0c-8f98-c155a84a3ea1"
}
```

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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.Range</td>
<td>The parameter value is not in the specified range.</td>
</tr>
<tr>
<td>InvalidParameterValue.Reserved</td>
<td>The parameter value is retained by the system.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNot Found</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeNetworkInterfaceLimit

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeNetworkInterfaceLimit.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>InstanceId</td>
<td>Yes</td>
<td>String</td>
<td>ID of a CVM instance or ENI to query</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EniQuantity</td>
<td>Integer</td>
<td>ENI quota</td>
</tr>
<tr>
<td>EniPrivateIpAddressQuantity</td>
<td>Integer</td>
<td>Quota of IP addresses that can be allocated to each ENI.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Queries the ENI quota by CVM instance ID

Input Example

```xml
https://vpc.tencentcloudapi.com/?Action=DescribeNetworkInterfaceLimit
InstanceId": "ins-1991098i"
&<Common request parameter>
```

Output Example

```json
{
  "Response": {
    "EniQuantity": 2,
    "EniPrivateIpAddressQuantity": 10,
    "RequestId": "01ff14f34-e9ae-470d-a71b-e8616ad3fae1"
  }
}
```
Example2 Queries the ENI quota by ENI ID

Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNetworkInterfaceLimit
&InstanceId=eni-1991890
&<Common request parameter>
```

Output Example

```
{
  "Response": {
    "EniQuantity": 0,
    "EniPrivateIpAddressQuantity": 10,
    "RequestId": "01f14f34-e9ae-470d-a71b-a8616ad3fae1"
  }
}
```

5. Developer Resources

API Explorer

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- API 3.0 Explorer

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>InvalidInstanceId.NotFound</td>
<td>Invalid instance ID. The specified instance ID does not exist.</td>
</tr>
</tbody>
</table>
DeleteNetworkInterface

1. API Description

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

This API (DeleteNetworkInterface) is used to delete ENIs.

- An ENI that has been bound to a CVM cannot be deleted.
- An ENI can be deleted only after being unbound from the server. After the deletion, all private IP addresses associated with the ENI will be released.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteNetworkInterface.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-m6dyj72l.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Deleting an ENI**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DeleteNetworkInterface
&Version=2017-03-12
&NetworkInterfaceId=eni-m6dyj72l
<Common Request Parameters>
```

**Output Example**

```
{
  "Response": {
    "RequestId": "Scf1a813-d4f8-4e0c-8f9b-c155a84a3ea1"
  }
}
```
5. Developer Resources

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceInUse</td>
<td>The resource is occupied.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
</tbody>
</table>
DisassociateNetworkInterfaceSecurityGroups

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DisassociateNetworkInterfaceSecurityGroups.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>ENI instance ID, e.g. eni-pxir56ns. You can enter up to 100 instances for each request.</td>
</tr>
<tr>
<td>SecurityGroupIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The security group instance ID, such as sg-33ocnj9n. It can be obtained through DescribeSecurityGroups. You can enter up to 100 instances for each request.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Detaches a security group from an ENI

Input Example

&NetworkInterfaceIds.0=eni-12345678
&SecurityGroupId.0=sg-12345678
&<Common request parameter>

Output Example

```json
{
    "Response": {
        "RequestId": "5cf1a813-d4f8-4e0c-8f9b-c155a84a3ea1"
    }
}
```
5. Developer Resources

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
</tbody>
</table>
DescribeNetworkInterfaces

Last updated: 2020-05-15 11:12:26

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeNetworkInterfaces.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>Queries the ID of the ENI instance, such as eni-pxir56ns. Each request can have a maximum of 100 instances. NetworkInterfaceIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. NetworkInterfaceIds and Filters cannot be specified at the same time. VPC instance ID, such as vpc-f49l6u0z. Subnet instance ID, such as subnet-f49l6u0z. ENI instance ID, such as eni-5k56k7k7. VCM instance ID, such as ins-3nqpdn3i. Instance ID of the security group, such as sg-f9ekbxeq. ENI instance name. ENI instance description. Private IPv4 address. Filters by tag key. For more information, see Example 2. Filters by tag key pair. For this parameter, tag_key will be replaced with a specific tag key. For more information, see Example 3. Filters based on whether it is a primary ENI. If the value is 'true', filter only the primary ENI. If the value is 'false', filter only the secondary ENI. If the secondary filter parameter is provided, filter the both. Offset</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>Number of returned results. Default value: 20. Maximum value: 100.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetworkInterfaceSet</td>
<td>Array of NetworkInterface</td>
<td>List of instance details.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>Number of eligible instances.</td>
</tr>
</tbody>
</table>
4. Example

Example1 Querying the ENI list

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeNetworkInterfaces
&<Common request parameter>

Output Example

```json
{
  "Response": {
    "NetworkInterfaceSet": [
    {
      "VpcId": "vpc-mrzkofih",
      "SubnetId": "subnet-nao8lfrq",
      "NetworkInterfaceId": "eni-fjxjkwlb",
      "NetworkInterfaceName": "royhyangtest-main",
      "NetworkInterfaceDescription": "",
      "GroupSet": [
        "sg-c2r7l1nh",
        "sg-f9ekbxeq"
      ],
      "Primary": false,
      "MacAddress": "20: 90: 6F: F3: 3D: BD",
      "State": "AVAILABLE",
      "CreatedTime": "2017-11-16 19:56:00",
      "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"
        }
      ],
      "Attachment": {}
    }
  }
}```
Example 2: Querying the list of ENIs bound to the tag

Make queries using tag:tag-key.

Input Example

**https://vpc.tencentcloudapi.com/?Action=DescribeNetworkInterfaces &Filters.0.Name=tag:Version &Filters.0.Values.0=TEST &Common request parameter**

Output Example

```json
{
    "Response": {
        "NetworkInterfaceSet": [
            {
                "VpcId": "vpc-79910i8x",
                "SubnetId": "subnet-qynfizh2",
                "NetworkInterfaceId": "eni-p17uiqgk",
                "NetworkInterfaceName": "test",
                "NetworkInterfaceDescription": "",
                "GroupSet": [
                    "sg-hcd8t9xj"
                ],
                "Primary": false,
                "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": ""
                    }
                ]
            }
        ]
    }
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (DetachNetworkInterface) is used to unbind an ENI from a CVM.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DetachNetworkInterface.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-afo43z61.</td>
</tr>
<tr>
<td>InstanceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the CVM instance, such as ins-r8hr2upy.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Unbinding an ENI from a CVM**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DetachNetworkInterface
&Version=2017-03-12
&NetworkInterfaceId=eni-afo43z61
&InstanceId=ins-r8hr2upy
&<Common Request Parameters>
```

**Output Example**

```
{
   "Response": {
   "RequestId": "f23d1458-8d00-4442-b6d4-9e4b409e625e6c"
   }
}
```

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (MigrateNetworkInterface) is used to migrate ENIs.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: MigrateNetworkInterface.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-afo43z61.</td>
</tr>
<tr>
<td>SourceInstanceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the CVM bound to the ENI, such as ins-r8hr2upy.</td>
</tr>
<tr>
<td>DestinationInstanceId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the destination CVM instance to be migrated.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Migrating an ENI**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=MigrateNetworkInterface
&Action=MigrateNetworkInterface
&Version=2017-03-12
&NetworkInterfaceId=eni-afo43z61
&SourceInstanceId=ins-r8hr2upy
&DestinationInstanceId=ins-s2hr8upy
&<Common Request Parameters>
```

**Output Example**

```
{
  "Response": {
    "RequestId": "f23d145b-ed00-4442-98d4-be400e61e5c3"
  }
}
```
5. Developer Resources

API Explorer
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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFoundException</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
# ModifyIpv6AddressesAttribute

Last updated: 2020-03-06 20:27:15

## 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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

## 2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyIpv6AddressesAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-6dyj72l.</td>
</tr>
<tr>
<td>Ipv6Addresses.N</td>
<td>Yes</td>
<td>Array of Ipv6Address</td>
<td>The information of the specified private IPv6 addresses.</td>
</tr>
</tbody>
</table>

## 3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

## 4. Example

### Example1 Modifying the IPv6 address attributes of an ENI

**Input Example**

```plaintext
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**

```plaintext
{
  "Response": {
    "RequestId": "57065a05-9d50-476b-9cd6-97b0ddf03766"
  }
}
```
5. Developer Resources

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**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
<tr>
<td>UnsupportedOperation.AttachmentNotFound</td>
<td>The binding relationship does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (MigratePrivateIpAddress) is used to migrate the private IPs of ENIs.
- This API is used to migrate a private IP from one ENI to another. Primary IPs cannot be migrated.
- The ENIs before and after migration must belong to the same subnet.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: MigratePrivateIpAddress.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SourceNetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the ENI instance bound with the private IP, such as eni-afo43z61</td>
</tr>
<tr>
<td>DestinationNetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the destination ENI instance to be migrated.</td>
</tr>
<tr>
<td>PrivateIpAddress</td>
<td>Yes</td>
<td>String</td>
<td>The private IP to be migrated, such as 10.0.0.6.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Migrating private IPs of an ENI**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=MigratePrivateIpAddress
&Version=2017-03-12
&SourceNetworkInterfaceId=eni-afo43z61
&DestinationNetworkInterfaceId=eni-g0n2axhd
&PrivateIpAddress=172.16.33.109
&<Common Request Parameters>
```

**Output Example**

```json
{
  "Response": {
  
  }
```
5. Developer Resources

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6. Error Code

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnauthorizedOperation.AttachmentNotFound</td>
<td>The binding relationship does not exist.</td>
</tr>
<tr>
<td>UnauthorizedOperation.PrimaryIp</td>
<td>The operation is not allowed for a primary IP.</td>
</tr>
</tbody>
</table>
ModifyNetworkInterfaceAttribute

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyNetworkInterfaceAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-pxir56ns.</td>
</tr>
<tr>
<td>NetworkInterfaceName</td>
<td>No</td>
<td>String</td>
<td>The name of the ENI. The maximum length is 60 characters.</td>
</tr>
<tr>
<td>NetworkInterfaceDescription</td>
<td>No</td>
<td>String</td>
<td>ENI description can be named freely, but the maximum length is 60 characters.</td>
</tr>
<tr>
<td>SecurityGroupIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The specified security groups to be bound with, such as ['sg-1dd51d'].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modifying an ENI

Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyNetworkInterfaceAttribute
&Version=2017-03-12
&NetworkInterfaceId=eni-afo43z61
&NetworkInterfaceName=NewName
&<Common Request Parameters>
```

Output Example

```
{
    "Response": {
        "RequestId": "f23d1458-ed00-4442-98d4-be409e625e6c"
    }
```

5. Developer Resources

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
UnassignIpv6Addresses

1. API Description

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

This API (UnassignIpv6Addresses) is used to release ENI IPv6 addresses.

This API is completed asynchronously. If you need to query the async execution results, use the `RequestId` returned by this API to query the `QueryTask` API.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: UnassignIpv6Addresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as <code>eni-6edy72l</code>.</td>
</tr>
<tr>
<td>Ipv6Addresses.N</td>
<td>Yes</td>
<td>Array of Ipv6Address</td>
<td>The list of specified IPv6 addresses. A maximum of 10 can be specified each time.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Releasing IPv6 addresses

**Input Example**

```plaintext
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:efef:c7d0 &Ipv6Addresses.3.Address=3402:4e00:20:1202:0:8d01:efef:c97f &<Common Request Parameters>
```

**Output Example**

```plaintext
{
  "Response": {
    "RequestId": "75221557-b667-448a-a8cfe-ccd1bde2a234"
  }
}
```
5. Developer Resources

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnauthorizedOperation.AttachmentNotFound</td>
<td>The binding relationship does not exist.</td>
</tr>
<tr>
<td>UnauthorizedOperation.PrimaryIp</td>
<td>The operation is not allowed for a primary IP.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
<tr>
<td>UnsupportedOperation.MutexOperationTaskRunning</td>
<td>The resource mutual exclusion operation is being executed.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

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<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyPrivateIpAddressesAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-m6dyj721.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Modifying the private IP attributes of an ENI**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=ModifyPrivateIpAddressesAttribute
&Version=2017-03-12
&NetworkInterfaceId=enid-afo43z61
&PrivateIpAddresses.0.PrivateIpAddress=172.16.32.111
&PrivateIpAddresses.0.Description=new-pip-name
&<Common Request Parameters>
```

**Output Example**

```json
{
    "Response": {
        "RequestId": "f23d1458-ed00-4442-98d4-be409625e6c"
    }
}
```
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
</tbody>
</table>

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UnassignPrivateIpAddresses

1. API Description

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

This API (UnassignPrivateIpAddresses) is used to return the private IPs of ENI.

- To return the secondary private IPs of an ENI, the API will automatically unbind the IPs of an ENI. The primary private IP of the ENI cannot be returned.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
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<tr>
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<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: UnassignPrivateIpAddresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-m6dyj72l.</td>
</tr>
<tr>
<td>PrivateIpAddresses.N</td>
<td>Yes</td>
<td>Array of PrivateIpAddressSpecification</td>
<td>The information of the specified private IPs. You can specify a maximum of 10 each time.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Returning the private IPs of an ENI

Input Example

https://vpc.tencentcloudapi.com/?Action=UnassignPrivateIpAddresses
&Version=2017-03-12
&NetworkInterfaceId=eni-afo43z61
&PrivateIpAddresses.0.PrivateIpAddress=172.16.32.111
&<Common Request Parameters>

Output Example

```json
{
  "Response": {
  "RequestId": "f23d14b9-6d00-4442-98d4-be480a625e66"
}
```
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</tr>
</thead>
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</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateDirectConnectGatewayCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>DirectConnectGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the Direct Connect gateway, such as dcg-prpqlmg1</td>
</tr>
<tr>
<td>Routes.N</td>
<td>Yes</td>
<td>Array of DirectConnectGatewayCcnRoute</td>
<td>The list of IDC IP range that must be connected</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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-d18956586058"
  }
}```
5. Developer Resources

**API Explorer**
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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.
DeleteDirectConnectGatewayCcnRoutes

Last updated: 2020-03-06 20:27:29

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteDirectConnectGatewayCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>DirectConnectGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the Direct Connect gateway, such as dcg-prpqlmg1</td>
</tr>
<tr>
<td>RouteIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The route ID, such as ccnr-f4916u8z</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Deleting CCN routes of a Direct Connect gateway**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=DeleteDirectConnectGatewayCcnRoutes
&Action=DeleteDirectConnectGatewayCcnRoutes
&DirectConnectGatewayId=dcg-prpqlmg1
&RouteIds.0=ccnr-bvipc87w
&RouteIds.1=ccnr-oc61so0o
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "6e446c86-d8c9-4881-9bc3-d18956585858"
  }
}
```
5. Developer Resources

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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.
DescribeDirectConnectGatewayCcnRoutes

Last updated: 2020-03-06 20:27:28

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeDirectConnectGatewayCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>DirectConnectGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the Direct Connect gateway, such as dcg-prpqlmg1.</td>
</tr>
<tr>
<td>CcnRouteType</td>
<td>No</td>
<td>String</td>
<td>The route learning type of the CCN. Available values:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• BGP - Automatic learning.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• STATIC - Static means user-configured. This is the default value.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>The returned quantity.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of objects meeting the condition.</td>
</tr>
<tr>
<td>RouteSet</td>
<td>Array of</td>
<td>The CCN route (IDC IP range) list.</td>
</tr>
<tr>
<td>DirectConnectGatewayCcnRoute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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

```json
{
  "Response": {
    "RouteSet": [
      {
        "RouteId": "ccnr-bvipc87w",
        "DestinationCidrBlock": "10.33.0.0/24",
        "ASPath": [
          "1000",
          "2000",
          "3000"
        ]
      },
      {
        "RouteId": "ccnr-oc61so0o",
        "DestinationCidrBlock": "192.168.0.0/24",
        "ASPath": []
      }
    ],
    "TotalCount": 2,
    "RequestId": "6e446c86-d8c9-4881-9b33-d1095658058"
  }
}
```

5. Developer Resources

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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.
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ReplaceDirectConnectGatewayCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>DirectConnectGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the Direct Connect gateway, such as dcg-prpqlmg1.</td>
</tr>
<tr>
<td>Routes.N</td>
<td>Yes</td>
<td>Array of DirectConnectGatewayCcnRoute</td>
<td>The list of IDC IP range that must be connected</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Replacing the CCN routes of a Direct Connect gateway**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=ReplaceDirectConnectGatewayCcnRoutes
&Action=ReplaceDirectConnectGatewayCcnRoutes
&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-d8c9-4881-9b33-d189565858f8"
  }
}
```
5. Developer Resources

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
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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.
1. API Description

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

This API (DescribeGatewayFlowQos) is used to query the QoS bandwidth limit of inbound IP flow in a gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeGatewayFlowQos.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>GatewayId</td>
<td>Yes</td>
<td>String</td>
<td>Gateway instance ID, which currently supports these types: ID of Direct Connect gateway instance, e.g. dcg-ltjahce6; ID of NAT gateway instance, e.g. nat-ltjahce6; ID of VPN gateway instance, e.g. vpn-ltjahce6.</td>
</tr>
<tr>
<td>IpAddresses.N</td>
<td>No</td>
<td>Array of String</td>
<td>CVM private IP addresses with limited bandwidth.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset. Default value: 0.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>Number of returned results. Default value: 20. Maximum value: 100.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GatewayQosSet</td>
<td>Array of GatewayQos</td>
<td>List of instance details.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>Number of eligible instances.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Example 1: Querying QoS bandwidth limit of inbound IP flow in a VPN gateway**

Input Example
Output Example

```json
{
    "Response": {
        "GatewayQosSet": [
            {
                "VpcId": "vpc-5rzkofih",
                "IpAddress": "10.0.0.12",
                "Bandwidth": 10,
                "CreateTime": "2020-01-01 10:00:00"
            }
        ],
        "TotalCount": 1,
        "RequestId": "5cf1a813-d4f8-4e0c-8f9b-c155a84a3ea1"
    }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (DisableGatewayFlowMonitor) is used to disable gateway flow monitor.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DisableGatewayFlowMonitor.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>GatewayId</td>
<td>Yes</td>
<td>String</td>
<td>Gateway instance ID, which currently supports these types: ID of Direct Connect gateway instance, e.g. dcg-ltjahce6; ID of NAT gateway instance, e.g. nat-ltjahce6; ID of VPN gateway instance, e.g. vpn-ltjahce6.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example 1 Example 1: Disabling VPN gateway flow monitor**

**Input Example**

```python
&<Common request parameter>
&GatewayId=vpngw-gree226l
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "627c2362-890f-4f9e-9158-5e457b8d4eb6"
  }
}
```

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.

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<tr>
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</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
</tbody>
</table>
EnableGatewayFlowMonitor

Last updated: 2020-05-15 11:12:21

1. API Description

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

This API (EnableGatewayFlowMonitor) is used to enable gateway flow monitor.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

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<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: EnableGatewayFlowMonitor.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>GatewayId</td>
<td>Yes</td>
<td>String</td>
<td>Gateway instance ID, which currently supports these types: ID of Direct Connect gateway instance, e.g. dcg-ltjahce6; ID of NAT gateway instance, e.g. nat-ltjahce6; ID of VPN gateway instance, e.g. vpn-ltjahce6.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Example 1: Enabling VPN gateway flow monitor**

**Input Example**

```plaintext
&<Common request parameter>
&GatewayId=vpngw-gree226l
```

**Output Example**

```json
{
  "Response": {
    "RequestId": 2020573cfb089642b9c0e75e6e3b46c7
  }
}
```

5. Developer Resources
API Explorer
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- API 3.0 Explorer

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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (ModifyGatewayFlowQos) is used to adjust the QoS bandwidth limit in a gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyGatewayFlowQos.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>GatewayId</td>
<td>Yes</td>
<td>String</td>
<td>Gateway instance ID, which currently supports these types: ID of Direct Connect gateway instance, e.g. dcg-ltjahce6 ; ID of NAT gateway instance, e.g. nat-ltjahce6 ; ID of VPN gateway instance, e.g. vpn-ltjahce6 .</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>Yes</td>
<td>Integer</td>
<td>Bandwidth limit value.</td>
</tr>
<tr>
<td>IpAddresses.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>CVM private IP addresses with limited bandwidth.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Example 1: Adjusting QoS bandwidth limit in a VPN gateway**

**Input Example**

```xml
https://vpc.tencentcloudapi.com/?Action=ModifyGatewayFlowQos
&<Common request parameter>
&GatewayId=vpngw-gree226l
&Bandwidth=10
&IpAddresses.0=10.0.0.12
```

**Output Example**

```json
{
  "Response": {
```
5. Developer Resources

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</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
</tbody>
</table>

©2013-2019 Tencent Cloud. All rights reserved.
1. API Description

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

This API (CreateHaVip) is used to create a highly available virtual IP (HAVIP)

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateHaVip.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC to which the HAVIP belongs.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the subnet to which the HAVIP belongs.</td>
</tr>
<tr>
<td>HaVipName</td>
<td>Yes</td>
<td>String</td>
<td>The name of the HAVIP.</td>
</tr>
<tr>
<td>Vip</td>
<td>No</td>
<td>String</td>
<td>The specified virtual IP address, which must be within the IP range of the VPC and not in use. It will be automatically assigned if not specified.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HaVip</td>
<td>HaVip</td>
<td>HAVIP object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating the HAVIP

Input Example

https://vpc.tencentcloudapi.com/?Action=CreateHaVip
&Action=CreateHaVip
&VpcId=vpc-6v2ht8g6
&SubnetId=subnet-qq51rw4
&HaVipName=test+name
&Vip=10.4.6.15
&<Common Request Parameters>

Output Example
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<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DeleteHaVip

1. API Description

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

This API (DeleteHaVip) is used to delete Highly Available Virtual IP (HAVIP)

This API is completed asynchronously. If you need to query the async job execution results, please use the RequestId returned by this API to query the QueryTask API.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteHaVip.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>HaVipId</td>
<td>Yes</td>
<td>String</td>
<td>The unique ID of the HAVIP, such as havip-9o233uri.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deleting the HAVIP

Input Example

https://vpc.tencentcloudapi.com/?Action=DeleteHaVip
&HaVipId=havip-9o233uri
&<Common Request Parameters>

Output Example

```json
{
  "Response": {
    "RequestId": "fcb47621-838b-428e-8c33-6e210d93c451"
  }
}
```

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<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeHaVips
Last updated: 2020-04-10 10:00:16

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeHaVips.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>HaVipIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The unique ID of the HAVIP, such as havip-9o233uri.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. HaVipIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>havip-id - String - The unique ID of the HAVIP, such as havip-9o233uri.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>havip-name - String - HAVIP name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>vpc-id - String - The ID of the VPC where HAVIP is located.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>subnet-id - String - The ID of the subnet where HAVIP is located.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>address-ip - String - The EIP to which HAVIP is bound.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>The returned quantity</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of objects meeting the condition.</td>
</tr>
<tr>
<td>HaVipSet</td>
<td>Array of HaVip</td>
<td>HAVIP object array.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the HAVIP list 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-6v2ht8x5
&<Common request parameters>

**Output Example**

```
{
  "Response": {
    "HaVipSet": [
    {
      "HaVipId": "havip-iyylykky",
      "HaVipName": "test modify",
      "Vip": "10.4.6.17",
      "VpcId": "vpc-6v2ht8x5",
      "SubnetId": "subnet-qp51iwr4",
      "NetworkInterfaceId": "",
      "InstanceId": "",
      "AddressIp": "",
      "Business": "",
      "State": "UNBOUND",
      "CreatedTime": "2018-10-09 18:08:16"
    }
    ],
    "TotalCount": 1,
    "RequestId": "659cd6a3-a75a-473c-8280-af27c33da8bd"
  }
}
```

**Example2 Querying the HAVIP list by ID**

**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-bk4275i0",
      "HaVipName": "tadfasd",
      "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-2kce8v4q",
      "HaVipName": "tadfasd",
      "Vip": "10.3.3.15",
      "VpcId": "vpc-o31qeah3",
      "SubnetId": "subnet-8qywqc4y",
      "NetworkInterfaceId": "",
      "InstanceId": "",
      "AddressIp": "",
      "Business": "",
      "State": "UNBOUND",
      "CreatedTime": "2018-04-03 20:00:05"
    }
    ],
    "TotalCount": 2,
    "RequestId": "659cd6a3-a75a-473c-8280-af27c33da8bd"
  }
}
```
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<table>
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<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
</tbody>
</table>
HaVipAssociateAddressIp

Last updated: 2020-03-06 20:27:08

1. API Description

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

This API (HaVipAssociateAddressIp) is used to bind an EIP to an HAVIP.

This API is completed asynchronously. If you need to query the async job execution results, please use the RequestId returned by this API to query the QueryTask API.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

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<tr>
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<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: HaVipAssociateAddressIp.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>HaVipId</td>
<td>Yes</td>
<td>String</td>
<td>The unique ID of the HAVIP, such as havip-9a233uri. This must be a HAVIP that has not been bound to an EIP.</td>
</tr>
<tr>
<td>AddressIp</td>
<td>Yes</td>
<td>String</td>
<td>The Elastic IP. This must be an EIP that has not been bound to a HAVIP.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Binding an EIP to HAVIP**

**Input Example**

https://vpc.tencentcloudapi.com/?Action=HaVipAssociateAddressIp
&HaVipId=havip-9a233uri
&AddressIp=119.29.93.218
&<Common Request Parameters>

**Output Example**

```json
{
  "Response": {
    "RequestId": "fcb47621-838b-428e-8c33-6e210d93c451"
  }
}
```
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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.BindEIP</td>
<td>EIP has already been bound.</td>
</tr>
</tbody>
</table>
HaVipDisassociateAddressIp

1. API Description

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

This API (HaVipDisassociateAddressIp) is used to unbind an EIP which has been bound to an HAVIP.
This API is completed asynchronously. If you need to query the async job execution results, please use the RequestId returned by this API to query the QueryTask API.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: HaVipDisassociateAddressIp.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>HaVipId</td>
<td>Yes</td>
<td>String</td>
<td>The unique ID of the HAVIP, such as havip-9e233uri. This must be an HAVIP that has been bound to an EIP.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Unbinding an EIP from HAVIP

Input Example

https://vpc.tencentcloudapi.com/?Action=HaVipDisassociateAddressIp&HaVipId=havip-9e233uri&<Common Request Parameters>

Output Example

```json
{
  "Response": {
    "RequestId": "fcb47621-838b-428e-8c33-6e210d93c451"
  }
}
```

5. Developer Resources
API Explorer
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- API 3.0 Explorer

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

Command Line Interface
- Tencent Cloud CLI 3.0

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnbindEIP</td>
<td>EIP is not bound.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyHaVipAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>HaVipId</td>
<td>Yes</td>
<td>String</td>
<td>The unique ID of the HAVIP, such as havip-9o233uri.</td>
</tr>
<tr>
<td>HaVipName</td>
<td>Yes</td>
<td>String</td>
<td>HAVIP can be named freely, but the maximum length is 60 characters.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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-428d-8c33-6e210d93c451"
}
}
```

5. Developer Resources
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6. Error Code
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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
Network ACL APIs
AssociateNetworkAclSubnets

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AssociateNetworkAclSubnets.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkAclId</td>
<td>Yes</td>
<td>String</td>
<td>Network ACL instance ID. Example: acl-12345678.</td>
</tr>
<tr>
<td>SubnetIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>Array of subnet instance IDs. Example: [subnet-12345678]</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Associating a network ACL with subnets

Input Example

https://vpc.tencentcloudapi.com/?Action=AssociateNetworkAclSubnets
&Version=2017-03-12
&NetworkAclId=acl-12345678
&SubnetIds.0=subnet-12345678
&<Common request parameters>

Output Example

```json
{
  "Response": {
    "RequestId": "f23d1458-ed00-4442-98d4-ba409e625e6c"
  }
}
```
5. Developer Resources

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6. Error Code

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<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.VpcMismatch</td>
<td>The resources are not in the same VPC.</td>
</tr>
</tbody>
</table>
CreateNetworkAcl

Last updated: 2020-04-10 10:00:13

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 after creation to set rules for the network ACL as needed.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateNetworkAcl.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of the DescribeVpcs API.</td>
</tr>
<tr>
<td>NetworkAclName</td>
<td>Yes</td>
<td>String</td>
<td>Name of the network ACL. The maximum length is 60 bytes.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetworkAcl</td>
<td>NetworkAcl</td>
<td>Network ACL instance</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating a network ACL

Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateNetworkAcl
&Version=2017-03-12
&VpcId=vpc-12345678
&NetworkAclName=test
&<Common request parameters>
```

Output Example

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

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5. Developer Resources

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- Tencent Cloud SDK 3.0 for .NET

**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DeleteNetworkAcl

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteNetworkAcl.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkAclId</td>
<td>Yes</td>
<td>String</td>
<td>Network ACL instance ID. Example: acl-12345678.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deleting a network ACL

Input Example

```plaintext
https://vpc.tencentcloudapi.com/?Action=DeleteNetworkAcl
&Version=2017-03-12
&NetworkAclId=acl-12345678
&<Common request parameters>
```

Output Example

```json
{
   "Response": {
      "RequestId": "f23d1458-ed00-4442-98d4-be4f91525e5c"
   }
}
```

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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeNetworkAcls

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeNetworkAcls.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkAclIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>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 NetworkAclIds and Filters at the same time.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. NetworkAclIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset. Default: 0.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetworkAclSet</td>
<td>Array of NetworkAcl</td>
<td>List of instance details.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>Number of eligible instances.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example 1: Querying the network ACL list

Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeNetworkAcls
&{Common request parameters}
```

Output Example
Example 2: Querying the network ACL list by conditions

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeNetworkAcls
&NetworkAclIds.0=acl-12345678
&Offset=0
&Limit=20
&<Common request parameters>

Output Example

{
  "Response": {
    "NetworkAclSet": [
    {
      "VpcId": "vpc-12345678",
      "SubnetName": "acl-12345678",
      "NetworkAclName": "test",
      "CreatedTime": "2020-01-01 10:00:00",
      "SubnetSet": [
        {
          "SubnetId": "subnet-12345678",
          "SubnetName": "test",
          "CidrBlock": "172.16.12.0/24"
        }
      ],
      "IngressEntries": [
        {
          "Protocol": "tcp",
          "CidrBlock": "172.16.12.123/32",
          "Action": "Accept",
          "Description": "test",
          "Port": 8080
        },
        {
          "Protocol": "all",
          "CidrBlock": "0.0.0.0/0",
          "Action": "Drop",
          "Description": ""
        }
      ],
      "EgressEntries": [
        {
          "Protocol": "tcp",
          "CidrBlock": "172.16.12.123/32",
          "Action": "Accept",
          "Description": "test",
          "Port": 8080
        },
        {
          "Protocol": "all",
          "CidrBlock": "0.0.0.0/0",
          "Action": "Drop",
          "Description": ""
        }
      ]
    }
  ],
  "TotalCount": 1,
  "RequestId": "5efe6fa7-6de2-4ce9-911a-f7438bf097d4"
}
5. Developer Resources

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Command Line Interface
6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.Range</td>
<td>The parameter value is not in the specified range.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DisassociateNetworkAclSubnets

Last updated: 2020-04-10 10:00:10

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DisassociateNetworkAclSubnets.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkAclId</td>
<td>Yes</td>
<td>String</td>
<td>Network ACL instance ID. Example: acl-12345678.</td>
</tr>
<tr>
<td>SubnetIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>Array of subnet instance IDs. Example: [subnet-12345678].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example 1: Disassociating a network ACL from subnets

Input Example

https://vpc.tencentcloudapi.com/?Action=DisassociateNetworkAclSubnets &Version=2017-03-12 &NetworkAclId=acl-12345678 &SubnetIds.0=subnet-12345678 &<Common request parameters>

Output Example

```
{
    "Response": {
        "RequestId": "f23d1458-ed00-4442-90d4-be409a0e25e6c"
    }
}
```
5. Developer Resources

**API Explorer**
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- API 3.0 Explorer

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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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.VpcMismatch</td>
<td>The resources are not in the same VPC.</td>
</tr>
</tbody>
</table>
ModifyNetworkAclAttribute

Last updated: 2020-04-10 10:00:10

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyNetworkAclAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkAclId</td>
<td>Yes</td>
<td>String</td>
<td>Network ACL instance ID. Example: acl-12345678.</td>
</tr>
<tr>
<td>NetworkAclName</td>
<td>Yes</td>
<td>String</td>
<td>Name of the network ACL. The maximum length is 60 bytes.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Changing the name of a network ACL

Input Example

```
https://vpc.tencentcloudapi.com/?Action=ModifyNetworkAclAttribute
&Version=2017-03-12
&NetworkAclId=acl-12345678
&NetworkAclName=test modify
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be409e625e6c"
  }
}
```

5. Developer Resources
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Command Line Interface
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6. Error Code
The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyNetworkAclEntries.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetworkAclId</td>
<td>Yes</td>
<td>String</td>
<td>Network ACL instance ID. Example: acl-12345678.</td>
</tr>
<tr>
<td>NetworkAclEntrySet</td>
<td>Yes</td>
<td>NetworkAclEntrySet</td>
<td>Network ACL rule set.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deleting inbound rules from a network ACL

Input Example

```text
https://vpc.tencentcloudapi.com/?Action=ModifyNetworkAclEntries
&Version=2017-03-12
&NetworkAclId=acl-12345678
&NetworkAclEntrySet.Ingress.0.Protocol=TCP
&NetworkAclEntrySet.Ingress.0.Port=80
&NetworkAclEntrySet.Ingress.0.CidrBlock=192.168.1.0/24
&NetworkAclEntrySet.Ingress.0.Action=Accept
&NetworkAclEntrySet.Ingress.0.Description=test
&<Common request parameters>
```

Output Example

```json
{
    "Response": {
        "RequestId": "f23d1458-ed00-4442-98d4-be469e625e6c"
    }
}
```
Example 2 Adding only inbound rules to a network ACL

**Input Example**

```bash
https://vpc.tencentcloudapi.com/?Action=ModifyNetworkAclEntries
&Version=2017-03-12
&NetworkAclId=acl-12345678
&NetworkAclEntrySet.Ingress.0.Protocol=TCP
&NetworkAclEntrySet.Ingress.0.Port=80
&NetworkAclEntrySet.Ingress.0.CidrBlock=192.168.1.0/24
&NetworkAclEntrySet.Ingress.0.Action=Accept
&NetworkAclEntrySet.Ingress.0.Description=test
&NetworkAclEntrySet.Ingress.1.Protocol=TCP
&NetworkAclEntrySet.Ingress.1.Port=443
&NetworkAclEntrySet.Ingress.1.CidrBlock=192.168.1.0/24
&NetworkAclEntrySet.Ingress.1.Action=Accept
&NetworkAclEntrySet.Ingress.1.Description=test
&<Common request parameters>
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be469e625e6c"
  }
}
```

Example 3 Adding inbound and outbound rules to a network ACL

**Input Example**

```bash
https://vpc.tencentcloudapi.com/?Action=ModifyNetworkAclEntries
&Version=2017-03-12
&NetworkAclId=acl-12345678
&NetworkAclEntrySet.Ingress.0.Protocol=TCP
&NetworkAclEntrySet.Ingress.0.Port=80
&NetworkAclEntrySet.Ingress.0.CidrBlock=192.168.1.0/24
&NetworkAclEntrySet.Ingress.0.Action=Accept
&NetworkAclEntrySet.Ingress.0.Description=test
&NetworkAclEntrySet.Egress.0.Protocol=TCP
&NetworkAclEntrySet.Egress.0.Port=80
&NetworkAclEntrySet.Egress.0.CidrBlock=192.168.1.0/24
&NetworkAclEntrySet.Egress.0.Action=Accept
&NetworkAclEntrySet.Egress.0.Description=test
&<Common request parameters>
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "f23d1450-ed00-4442-98d4-be469e625e6c"
  }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
NAT Gateway APIs

CreateNatGateway

Last updated : 2020-04-10 10:00:15

1. API Description

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

This API (CreateNatGateway) is used to create a NAT gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateNatGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayName</td>
<td>Yes</td>
<td>String</td>
<td>NAT gateway name</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>No</td>
<td>Integer</td>
<td>The maximum outbound bandwidth of the NAT gateway (unit: Mbps). Supported parameter values: 20, 50, 100, 200, 500, 1000, 2000, 5000. Default: 100Mbps.</td>
</tr>
<tr>
<td>Max Concurrent Connection</td>
<td>No</td>
<td>Integer</td>
<td>The concurrent connection cap of the NAT gateway. Supported parameter values: 1000000, 3000000, 10000000. The default value is 100000.</td>
</tr>
<tr>
<td>AddressCount</td>
<td>No</td>
<td>Integer</td>
<td>The number of EIPs that needs to be applied for. The system will create N number of EIPs according to your requirements. Either AddressCount or PublicAddresses must be passed in.</td>
</tr>
<tr>
<td>PublicIpAddresses.N</td>
<td>No</td>
<td>Array of String</td>
<td>The EIP array bound to the NAT gateway. Either AddressCount or PublicAddresses must be passed in.</td>
</tr>
<tr>
<td>Zone</td>
<td>No</td>
<td>String</td>
<td>The availability zone, such as ap-guangzhou-1.</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>Bound tags, such as [{“Key”: “city”, “Value”: “shanghai”}].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NatGatewaySet</td>
<td>Array of NatGateway</td>
<td>NAT gateway object array.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of NAT gateway objects meeting the conditions.</td>
</tr>
<tr>
<td>Parameter Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>----------------</td>
<td>---------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

### 4. Example

**Example1 Creating a NAT gateway**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=CreateNatGateway
&NatGatewayName=test_name
&VpcId=vpc-abcdefg
&InternetMaxBandwidthOut=10
&MaxConcurrentConnection=1000000
&AddressCount=1
&PublicIpAddress.0=139.199.232.119
&Tags.0.Key=city
&Tags.0.Value=shanghai
&<Common request parameters>
```

**Output Example**

```
{
  "Response": {
    "NatGatewaySet": [
      {
        "NatGatewayId": "nat-cqbn23ju",
        "NatGatewayName": "11111",
        "VpcId": "vpc-qi4ja3xx",
        "CreatedTime": "2019-07-16 09:40:00",
        "State": "AVAILABLE",
        "NetworkState": "AVAILABLE",
        "InternetMaxBandwidthOut": 10,
        "MaxConcurrentConnection": 1000000,
        "PublicIpAddressSet": [
          {
            "AddressId": "eip-9uw5fwsu",
            "PublicIpAddress": "139.199.232.119",
            "IsBlocked": false
          },
          {
            "AddressId": "eip-9uw5fsss",
            "PublicIpAddress": "139.199.232.221",
            "IsBlocked": false
          }
        ],
        "DestinationIpPortTranslationNatRuleSet": [],
        "Zone": "ap-guangzhou-2",
        "TagSet": [
          {
            "Key": "city",
            "Value": "shanghai"
          }
        ],
        "TotalCount": 1,
        "RequestId": "6f2a42cf-2905-4fa5-af49-0f01612558de"
      }
    ],
    "TotalCount": 1,
    "RequestId": "6f2a42cf-2905-4fa5-af49-0f01612558de"
  }
}
```

### 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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressQuotaLimitExceeded</td>
<td>The account quota is reached. Each Tencent Cloud account can create up to 20 EIPs in each region.</td>
</tr>
<tr>
<td>InternalServer Error</td>
<td>Internal error.</td>
</tr>
<tr>
<td>InvalidAccount.NotSupported</td>
<td>This account is not supported.</td>
</tr>
<tr>
<td>InvalidAddressState</td>
<td>The operation cannot be performed on the specified EIP in current status.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.Range</td>
<td>The parameter value is not in the specified range.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>InvalidVpcId.Malformed</td>
<td>Invalid VPC. The VPC instance ID is invalid.</td>
</tr>
<tr>
<td>InvalidVpcId.NotFound</td>
<td>Invalid VPC. The VPC resource does not exist.</td>
</tr>
<tr>
<td>LimitExceeded.NatGatewayPerVpcLimitExceeded</td>
<td>The number of NAT gateways created by the VPC has reached the upper limit.</td>
</tr>
<tr>
<td>LimitExceeded.PublicIpAddressPerNatGatewayLimitExceeded</td>
<td>The number of EIPs bound to the NAT gateway has reached the upper limit.</td>
</tr>
<tr>
<td>ResourceInUse.Address</td>
<td>The specified IP address is already in use.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
<tr>
<td>UnsupportedOperation.InsufficientFunds</td>
<td>Insufficient account balance.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
<tr>
<td>UnsupportedOperation.PublicIpAddressIsNotBGPIp</td>
<td>The EIP bound to the NAT gateway is not a BGP IP.</td>
</tr>
<tr>
<td>UnsupportedOperation.PublicIpAddressNotExisted</td>
<td>The EIP bound to the NAT gateway does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.PublicIpAddressNotBilledByTraffic</td>
<td>The EIP bound to the NAT gateway is not bill-by-traffic.</td>
</tr>
</tbody>
</table>
CreateNatGatewayDestinationIpPortTranslationNatRule

1. API Description

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

This API (CreateNatGatewayDestinationIpPortTranslationNatRule) is used to create a port forwarding rule for a NAT gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateNatGatewayDestinationIpPortTranslationNatRule</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the NAT gateway, such as nat-df45454.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating NAT forwarding rules

Input Example

```text
https://vpc.tencentcloudapi.com/?Action=CreateNatGatewayDestinationIpPortTranslationNatRule
&NatGatewayId=nat-3isn9hr0
&DestinationIpPortTranslationNatRules.0.IpProtocol=TCP
&DestinationIpPortTranslationNatRules.0.PublicIpAddress=139.199.232.238
&DestinationIpPortTranslationNatRules.0.PublicPort=8089
&DestinationIpPortTranslationNatRules.0.PrivateIpAddress=10.80.80.41
&DestinationIpPortTranslationNatRules.0.PrivatePort=8989
&DestinationIpPortTranslationNatRules.0.Description=test_dnat
&<Common Request Parameters>
```

Output Example

```json
{
  "Response": {

```

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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

**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](#).
DeleteNatGateway

1. API Description

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

This API (DeleteNatGateway) is used to delete a NAT gateway. After the deletion of a NAT gateway, the system will automatically delete the routing entry that contains the NAT gateway from the route table. It will also unbind the Elastic IP.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteNatGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the NAT gateway, such as nat-ig8xpno8.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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

API Explorer
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- **API 3.0 Explorer**

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- Tencent Cloud SDK 3.0 for .NET

**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.
DeleteNatGatewayDestinationIpPortTranslationNatRule

1. API Description

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

This API (DeleteNatGatewayDestinationIpPortTranslationNatRule) is used to delete a port forwarding rule for a NAT gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteNatGatewayDestinationIpPortTranslationNatRule</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the NAT gateway, such as nat-df45454.</td>
</tr>
<tr>
<td>DestinationIpPortTranslationNatRules.0.IpProtocol</td>
<td>Yes</td>
<td>Array of DestinationIpPortTranslationNatRule</td>
<td>The port forwarding rules of the NAT gateway.</td>
</tr>
<tr>
<td>DestinationIpPortTranslationNatRules.0.PublicIpAddress</td>
<td>Yes</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>DestinationIpPortTranslationNatRules.0.PublicPort</td>
<td>Yes</td>
<td>String</td>
<td></td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Deleting a port forwarding rule of the NAT**

To delete a port forwarding rule of the NAT, you only need to pass the IpProtocol, PublicIpAddress, and PublicPort fields in the DestinationIpPortTranslationNatRule structure.

**Input Example**

```url
https://vpc.tencentcloudapi.com/?Action=DeleteNatGatewayDestinationIpPortTranslationNatRule
&NatGatewayId=nat-3isn9hr0
&DestinationIpPortTranslationNatRules.0.IpProtocol=TCP
&DestinationIpPortTranslationNatRules.0.PublicIpAddress=139.199.232.238
&DestinationIpPortTranslationNatRules.0.PublicPort=8989
&<Common Request Parameters>
```

**Output Example**

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

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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

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.
DescribeNatGatewayDestinationIpPortTranslationNatRules

1. API Description

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

This API (DescribeNatGatewayDestinationIpPortTranslationNatRules) is used to query the array of objects of the port forwarding rules for a NAT gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeNatGatewayDestinationIpPortTranslationNatRules.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>NAT gateway ID.</td>
</tr>
</tbody>
</table>
| Filters.N      | No       | Array of Filter | Filter conditions:  
|                |          |               | • NatGatewayIds and Filters cannot be specified at the same time.  
|                |          |               | • nat-gateway-id, the NAT gateway ID, such as nat-0yi4hekt .  
|                |          |               | • vpc-id, the VPC ID, such as vpc-0yi4hekt .  
|                |          |               | • public-ip-address, the EIP, such as 139.199.232.238 .  
|                |          |               | • public-port, the public network port.  
|                |          |               | • private-ip-address, the private IP, such as 10.0.0.1 .  
|                |          |               | • private-port, the private network port.  
|                |          |               | • description, the rule description.                                                             |
| Offset         | No       | Integer       | Offset. The default value is 0.                                                                 |
| Limit          | No       | Integer       | Number of values to be returned. The default value is 20. Maximum is 100.                       |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NatGatewayDestinationIpPortTranslationNatRuleSet</td>
<td>Array of NatGatewayDestinationIpPortTranslationNatRule</td>
<td>The object array of port forwarding rules for the NAT gateway.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of object arrays of NAT port forwarding rules meeting the conditions.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>
4. Example

Example 1 Queries the port forwarding rule of a NAT gateway
This example shows you how to use the Filter array to pull a NAT gateway’s port forwarding rules.

Input Example

```
&Filters.0.Name=vpc-id
&Filters.0.Values.0=vpc-0yi4hekt
&<Common request parameter>
```

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",
                "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",
                "NatGatewayId": "nat-3isn9hr0",
                "VpcId": "vpc-0yi4hekt"
            }
        ],
        "RequestId": "eb203971-a7a0-45c1-9c72-36ad86688590"
    }
}
```

Example 2 Queries the port forwarding rule of a NAT gateway-2
This example shows you how to use the NatGatewayId array to pull the NAT gateway’s port forwarding rules.

Input Example

```
&NatGatewayIds.0=nat-3isn9hr0
&Offset=0
&Limit=10
&<Common request parameter>
```

Output Example

```
{
    "Response": {
        "TotalCount": 2,
        "NatGatewayDestinationIpPortTranslationNatRuleSet": [
            {
                "IpProtocol": "TCP",
                "PublicIpAddress": "139.199.232.238",
                "PublicPort": 8989,
```

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5. Developer Resources

API Explorer

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- API 3.0 Explorer

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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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>InvalidAddressId.NotFound</td>
<td>The specified EIP does not exist.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>UnauthorizedOperation</td>
<td>Unauthorized operation.</td>
</tr>
</tbody>
</table>

**DescribeNatGateways**

Last updated: 2020-05-15 11:12:18
1. API Description

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

This API (DescribeNatGateways) is used to query NAT gateways.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeNatGateways.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The unified ID of the NAT gateways, such as nat-123xx454.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. NatGatewayIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• nat-gateway-id - String - (Filter condition) The ID of the protocol port template instance, such as nat-123xx454.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• vpc-id - String - (Filter condition) The unique ID of the VPC, such as vpc-123xx454.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• nat-gateway-name - String - (Filter condition) The ID of the protocol port template instance, such as test_nat.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset. The default value is 0.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>Number of values to be returned. The default value is 20. Maximum is 100.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NatGatewaySet</td>
<td>Array of NatGateway</td>
<td>NAT gateway object array.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of NAT gateway object sets meeting the conditions.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Queries 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
Output Example

```json
{
  "Response": {
    "NatGatewaySet": [
      {
        "NatGatewayId": "nat-3isn0nr0",
        "NatGatewayName": "test",
        "VpcId": "vpc-0yl4nek0",
        "CreatedTime": "2017-09-20 20:28:24",
        "State": "AVAILABLE",
        "NetworkState": "RUNNING",
        "InternetMaxBandwidthOut": 100,
        "MaxConcurrentConnection": 1000000,
        "PublicIpAddressSet": [
          {
            "AddressId": "eip-7qcdn91q",
            "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_dnatn"
          }
        ],
        "Zone": "ap-guangzhou-1"
      },
      {
        "NatGatewayId": "nat-7xh58vea",
        "NatGatewayName": "test_create",
        "VpcId": "vpc-0yl4nek0",
        "CreatedTime": "2019-05-04 15:01:11",
        "State": "PENDING",
        "NetworkState": "RUNNING",
        "InternetMaxBandwidthOut": 100,
        "MaxConcurrentConnection": 1000000,
        "PublicIpAddressSet": [],
        "DestinationIpPortTranslationNatRuleSet": [],
        "Zone": "ap-guangzhou-2"
      }
    ],
    "TotalCount": 2,
    "RequestId": "a3964872-e2f5-418f-86b7-0b49ec8e0109"
  }
}
```

Example2 Queries 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 parameter>

Output Example

```json
{
  "Response": {
    "NatGatewaySet": [
      {
        "NatGatewayId": "nat-3isn9hr0",
        "NatGatewayName": "test",
        "VpcId": "vpc-0yidhkt",
        "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_dnsapt"
          }
        ],
        "Zone": "ap-guangzhou-1"
      },
      {
        "NatGatewayId": "nat-mxkohguo",
        "NatGatewayName": "aaaaaa",
        "VpcId": "vpc-m7s1hwqs5",
        "CreatedTime": "2018-07-25 11:37:29",
        "State": "PENDING",
        "NetworkState": "UNAVAILABLE",
        "InternetMaxBandwidthOut": 100,
        "MaxConcurrentConnection": 1000000,
        "PublicIpAddressSet": [],
        "DestinationIpPortTranslationNatRuleSet": [
          {
            "Zone": "ap-guangzhou-1"
          }
        ],
        "TotalCount": 2,
        "RequestId": "fed7e087-083f-49e4-8754-17fb138828e0"
      }
    ],
    "TotalCount": 2,
    "RequestId": "fed7e087-083f-49e4-8754-17fb138828e0"
  }
}```
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- Tencent Cloud SDK 3.0 for Go
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**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.
DisassociateNatGatewayAddress

1. API Description

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

This API (DisassociateNatGatewayAddress) is used to unbind an EIP from a NAT gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DisassociateNatGatewayAddress.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the NAT gateway, such as nat-df45454.</td>
</tr>
<tr>
<td>PublicIpAddresses.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The array of EIPs bound to the NAT gateway.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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

**API Explorer**
This tool allows online call, signature authentication, SDK code generation and quick search of APIs to greatly improve the efficiency of using TencentCloud APIs.

- API 3.0 Explorer

**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

**Command Line Interface**
- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnsupportedOperation.PublicIpAddressDisassociate</td>
<td>At least one EIP exists on the NAT gateway, and the EIP cannot be unbound.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (ModifyNatGatewayAttribute) is used to modify the attributes of a NAT gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyNatGatewayAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the NAT gateway, such as nat-df45454.</td>
</tr>
<tr>
<td>NatGatewayName</td>
<td>No</td>
<td>String</td>
<td>The NAT gateway name, such as test_nat.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>No</td>
<td>Integer</td>
<td>The maximum outbound bandwidth of the NAT gateway. Unit: Mbps.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modifying the attributes of a NAT gateway

Only modification of the name of the NAT gateway and its maximum public network outbound bandwidth is supported. To reset the concurrent connection cap of a NAT gateway, use the ResetNatGatewayConnection API.

Input Example

https://vpc.tencentcloudapi.com/?Action=ModifyNatGatewayAttribute
&NatGatewayId=nat-ig8xpo8
&NatGatewayName=testnatgateway
&InternetMaxBandwidthOut=500
&{Common Request Parameters}

Output Example

```json
{
  "Response": {
    "RequestId": "e5c299dc-bf4b-482b-0093-3c434d1f0886"
  }
}```
5. Developer Resources

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

**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.
ModifyNatGatewayDestinationIpPortTranslationNatRule

1. API Description

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

This API (ModifyNatGatewayDestinationIpPortTranslationNatRule) is used to modify a port forwarding rule for a NAT gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyNatGatewayDestinationIpPortTranslationNatRule.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the NAT gateway, such as nat-df45454.</td>
</tr>
<tr>
<td>SourceNatRule</td>
<td>Yes</td>
<td>DestinationIpPortTranslationNatRule</td>
<td>The port forwarding rule of the source NAT gateway.</td>
</tr>
<tr>
<td>DestinationNatRule</td>
<td>Yes</td>
<td>DestinationIpPortTranslationNatRule</td>
<td>The port forwarding rule of the destination NAT gateway.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Modifying the port forwarding rules of a NAT**

When modifying the forwarding rule of a NAT, SourceNatRule only needs to pass IpProtocol, PublicIpAddress, and PublicPort. All DestinationNatRule parameters can be modified.

**Input Example**

```html
https://vpc.tencentcloudapi.com/?Action=ModifyNatGatewayDestinationIpPortTranslationNatRule
&NatGatewayId=nat-3isn9hr0
&SourceNatRule.IpProtocol=TCP
&SourceNatRule.PublicIpAddress=139.199.232.238
&SourceNatRule.PublicPort=8889
&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

```json
{
    "Response": {
        "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
    }
}
```

5. Developer Resources

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- Tencent Cloud SDK 3.0 for .NET

**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](#).
1. API Description

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

This API (ResetNatGatewayConnection) is used to adjust concurrent connection cap for the NAT gateway.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ResetNatGatewayConnection.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NatGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>NAT gateway ID.</td>
</tr>
<tr>
<td>MaxConcurrentConnection</td>
<td>Yes</td>
<td>Integer</td>
<td>Concurrent connections cap of the NAT gateway, such as 1000000, 3000000, 10000000.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Increasing the NAT gateway concurrent connection cap**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=ResetNatGatewayConnection
&NatGatewayId=nat-ig8xpno8
&MaxConcurrentConnection=3000000
&<Common Request Parameters>
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "dbffc3f0-1807-4683-89ee-2d2b96425ee1"
  }
}
```

5. Developer Resources
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- Tencent Cloud SDK 3.0 for .NET

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.
Network Detection-Related APIs
CheckNetDetectState

Last updated: 2020-05-15 11:12:18

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CheckNetDetectState.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>DetectDestinationIp.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The array of detection destination IPv4 addresses, which contains at most two IP addresses.</td>
</tr>
<tr>
<td>NextHopType</td>
<td>Yes</td>
<td>String</td>
<td>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.</td>
</tr>
<tr>
<td>NextHopDestination</td>
<td>Yes</td>
<td>String</td>
<td>The next-hop destination gateway. The value is related to NextHopType. If NextHopType is set to VPN, the value of this parameter is the VPN gateway ID, such as vpngw-12345678. If NextHopType is set to DIRECTCONNECT, the value of this parameter is the direct connect gateway ID, such as dcg-12345678. If NextHopType is set to PEERCONNECTION, the value of this parameter is the peering connection ID, such as pcx-12345678. If NextHopType is set to NAT, the value of this parameter is the 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.</td>
</tr>
<tr>
<td>NetDetectId</td>
<td>No</td>
<td>String</td>
<td>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.</td>
</tr>
<tr>
<td>VpcId</td>
<td>No</td>
<td>String</td>
<td>ID of a VPC instance, e.g. vpc-12345678, which is used together with Subnetid and NetDetectName. You should enter either this parameter or NetDetectId, or both. Use NetDetectId if it is present.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>No</td>
<td>String</td>
<td>ID of a subnet instance, e.g. subnet-12345678, which is used together with VpcId and NetDetectName. You should enter either this parameter or NetDetectId, or both. Use NetDetectId if it is present.</td>
</tr>
<tr>
<td>Parameter Name</td>
<td>Required</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>----------------</td>
<td>----------</td>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>NetDetectName</td>
<td>No</td>
<td>String</td>
<td>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.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetDetectIpStateSet</td>
<td>Array of NetDetectIpState</td>
<td>The array of network detection verification results.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Verifying the detection parameters based on the ID of a network detection instance**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=CheckNetDetectState
&Version=2017-03-12
&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**

```json
{
    "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-40b7f225972b0"
    }
}
```

**Example2 Verifying the detection parameters based on the entered information**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=CheckNetDetectState
&Version=2017-03-12
&VpcId=vpc-12345678
&SubnetId=subnet-12345678
&NetDetectName=test
&DetectDestinationIp.0=10.0.0.5
&DetectDestinationIp.1=10.0.0.6
```
Output Example

```json
{
    "Response": {
        "NetDetectIpStateSet": [
            {
                "DetectDestinationIp": "10.0.0.5",
                "State": 0,
                "Delay": 0,
                "PacketLossRate": 0
            },
            {
                "DetectDestinationIp": "10.0.0.6",
                "State": 0,
                "Delay": 0,
                "PacketLossRate": 0
            }
        ],
        "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22b972b"
    }
}
```

5. Developer Resources

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**Command Line Interface**

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameter.NextHopMismatch</td>
<td>The next hop type does not match with the next hop gateway.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>InvalidParameterValue.NetDetectSameIp</td>
<td>The detection destination IP address is the same as that of another network detection instance under the same subnet in the same VPC.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.VpcMismatch</td>
<td>The resources are not in the same VPC.</td>
</tr>
</tbody>
</table>
CreateNetDetect
Last updated : 2020-03-06 20:26:57

1. API Description

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

This API is used to create a network detection instance.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateNetDetect.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of a VPC instance, such as vpc-12345678.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of a subnet instance, such as subnet-12345678.</td>
</tr>
<tr>
<td>NetDetectName</td>
<td>Yes</td>
<td>String</td>
<td>The name of a network detection instance. The maximum length is 60 characters.</td>
</tr>
<tr>
<td>DetectDestinationIp.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The array of detection destination IPv4 addresses, which contains at most two IP addresses.</td>
</tr>
</tbody>
</table>

| 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 related to NextHopType. If NextHopType is set to VPN, the value of this parameter is the VPN gateway ID, such as vpnwg-12345678. If NextHopType is set to DIRECTCONNECT, the value of this parameter is the direct connect gateway ID, such as dcg-12345678. If NextHopType is set to PEERCONNECTION, the value of this parameter is the peering connection ID, such as pcx-12345678. If NextHopType is set to NAT, the value of this parameter is the 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. |
| NetDetectDescription| No      | String   | Network detection description.                                                                                                               |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetDetect</td>
<td>NetDetect</td>
<td>The network detection (NetDetect) object.</td>
</tr>
<tr>
<td>Parameter Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>----------------</td>
<td>----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Creating a network detection instance**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=CreateNetDetect
&Version=2017-03-12
&VpcId=vpc-12345678
&SubnetId=subnet-12345678
&NetDetectName=test
&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**

```json
{
  "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-48b7f22972b0"
  }
}
```

5. Developer Resources

**API Explorer**

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- [API 3.0 Explorer](#)

**SDK**

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6. Error Code

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameter.NextHopMismatch</td>
<td>The next hop type does not match with the next hop gateway.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.NetDetectSameIp</td>
<td>The detection destination IP address is the same as that of another network detection instance under the same subnet in the same VPC.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.VpcMismatch</td>
<td>The resources are not in the same VPC.</td>
</tr>
</tbody>
</table>
DeleteNetDetect

1. API Description

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

This API (DeleteNetDetect) is used to delete a network detection instance.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteNetDetect.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetDetectId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of a network detection instance, such as netd-12345678.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deleting a network detection instance by ID

Input Example

https://vpc.tencentcloudapi.com/?Action=DeleteNetDetect
&Version=2017-03-12
&NetDetectId=netd-12345678
&<Common request parameters>

Output Example

```json
{
  "Response": {
    "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
  }
}
```

5. Developer Resources

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- Tencent Cloud SDK 3.0 for .NET

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeNetDetectStates

Last updated: 2020-03-06 20:26:55

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeNetDetectStates.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetDetectIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The array of network detection instance IDs, such as [netd-12345678].</td>
</tr>
</tbody>
</table>
| Filters.N      | No       | Array of Filter  | Filter conditions. NetDetectIds and Filters cannot be specified at the same time.
|                |          |                  | net-detect-id - String - (Filter condition) The network detection instance ID, such as netd-12345678. |
| Offset         | No       | Integer          | The offset. Default: 0.                                                    |
| Limit          | No       | Integer          | The number of returned values. Default: 20. Maximum: 100.                  |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetDetectStateSet</td>
<td>Array of NetDetectState</td>
<td>The array of network detection verification results that meet requirements. Note: This field may return null, indicating that no valid values can be obtained.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of network detection verification results that meet requirements. Note: This field may return null, indicating that no valid values can be obtained.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the list of network detection verification results by ID

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeNetDetectStates
&Version=2017-03-12
5. Developer Resources

API Explorer
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SDK
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Command Line Interface
- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.Range</td>
<td>The parameter value is not in the specified range.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>

DescribeNetDetects
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeNetDetects.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetDetectIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The array of network detection instance IDs, such as [netd-12345678].</td>
</tr>
</tbody>
</table>
| Filters.N      | No       | Array of Filter | Filter conditions. NetDetectIds and Filters cannot be specified at the same time.  
|                |          |                 | - vpc-id - String - (Filter condition) The VPC instance ID, such as vpc-12345678.  
|                |          |                 | - net-detect-id - String - (Filter condition) The network detection instance ID, such as netd-12345678.  
|                |          |                 | - subnet-id - String - (Filter condition) The subnet instance ID, such as subnet-12345678.  
|                |          |                 | - net-detect-name - String - (Filter condition) The network detection name.       |
| Offset         | No       | Integer         | The offset. Default: 0.                                                    |
| Limit          | No       | Integer         | The number of returned values. Default: 20. Maximum: 100.                  |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetDetectSet</td>
<td>Array of NetDetect</td>
<td>The array of network detection objects that meet requirements. Note: This field may return null, indicating that no valid values can be obtained.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of network detection objects that meet requirements. Note: This field may return null, indicating that no valid values can be obtained.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Querying all network detection instances**

**Input Example**

https://vpc.tencentcloudapi.com/?Action=DescribeNetDetects
&Version=2017-03-12
&{Common request parameters}
Output Example

```json
{
  "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-40b7f122972b0"
  }
}
```

Example2 Querying network detection instances by ID

Input Example

```url
https://vpc.tencentcloudapi.com/?Action=DescribeNetDetects
&Version=2017-03-12
&NetDetectIds.0=netd-12345678
&<Common request parameters>
```

Output Example

```json
{
  "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"
}

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.Range</td>
<td>The parameter value is not in the specified range.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>

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Command Line Interface

- Tencent Cloud CLI 3.0

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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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyNetDetect.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>NetDetectId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of a network detection instance, such as netd-12345678.</td>
</tr>
<tr>
<td>NetDetectName</td>
<td>No</td>
<td>String</td>
<td>The name of a network detection instance. The maximum length is 60 characters.</td>
</tr>
<tr>
<td>DetectDestinationIp.N</td>
<td>No</td>
<td>Array of String</td>
<td>The array of detection destination IPv4 addresses, which contains at most two IP addresses.</td>
</tr>
</tbody>
</table>
| NextHopType       | No       | 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| No       | String     | The next-hop destination gateway. The value is related to NextHopType.  
|                   |          |            | If NextHopType is set to VPN, the value of this parameter is the VPN gateway ID, such as vpngw-12345678.  
|                   |          |            | If NextHopType is set to DIRECTCONNECT, the value of this parameter is the direct connect gateway ID, such as dcg-12345678.  
|                   |          |            | If NextHopType is set to PEERCONNECTION, the value of this parameter is the peering connection ID, such as pcx-12345678.  
|                   |          |            | If NextHopType is set to NAT, the value of this parameter is the 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. |
| NetDetectDescription| No     | String     | Network detection description.                                             |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>
4. Example

Example 1 Modifying network detection parameters

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=ModifyNetDetect
&Version=2017-03-12
&NetDetectId=netd-12345678
&NetDetectName=test
&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": {
    "RequestId": "6aa316a4-07d2-4355-b87d-40b7f122972b0"
  }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameter:NextHopMismatch</td>
<td>The next hop type does not match with the next hop gateway.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue:Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue:NetDetectSameIp</td>
<td>The detection destination IP address is the same as that of another network detection instance under the same subnet in the same VPC.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>

Security Group APIs
CreateSecurityGroup

Last updated: 2020-04-10 10:00:05

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateSecurityGroup.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>GroupName</td>
<td>Yes</td>
<td>String</td>
<td>Security group can be named freely, but cannot exceed 60 characters.</td>
</tr>
<tr>
<td>GroupDescription</td>
<td>Yes</td>
<td>String</td>
<td>The remarks for the security group. The maximum length is 100 characters.</td>
</tr>
<tr>
<td>ProjectId</td>
<td>No</td>
<td>String</td>
<td>Project ID. The default is 0. You can query it on the project management page of the Qcloud console.</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>Bound tags, such as [&quot;Key&quot;: &quot;city&quot;, &quot;Value&quot;: &quot;shanghai&quot;]').</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating a security group

Input Example

```xml
https://vpc.tencentcloudapi.com/?Action=CreateSecurityGroup
&Version=2017-03-12
&GroupName=TestGroup
&GroupDescription=test-group-desc
```
```json
{
"Response": {
"RequestID": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
"SecurityGroup": {
"SecurityGroupId": "sg-3g7ftkp3",
"SecurityGroupName": "TestGroup",
"SecurityGroupDesc": "test-group-desc",
"ProjectId": "0",
"CreateTime": "2018-01-13 19:26:33",
"TagSet": [
{
"Key": "city",
"Value": "shanghai"
}
]
}
}
}
```

5. Developer Resources

**API Explorer**

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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

**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
CreateSecurityGroupPolicies

Last updated: 2020-05-15 11:12:16

1. API Description

Domain name for API request: vpc.tencentcloudapi.com.
This API is used to create security group policies (SecurityGroupPolicy).

- The `Version` field indicates the version number of a security group policy, which will automatically increment by 1 every time you update the security policy, to prevent the expiration of the updated routing policies. If this field is left empty, any conflicts will be ignored.
- The value of the `Protocol` field can be TCP, UDP, ICMP, ICMPV6, GRE, or ALL.
- The `CidrBlock` field allows you to enter any string that conforms to the CIDR format. (More details) In a basic network, if a CidrBlock contains private IP addresses on Tencent Cloud for devices under your account other than CVMs, it does not mean this policy allows you to access these devices. The network isolation policies between tenants take priority over the private network policies in security groups.
- The `Ipv6CidrBlock` field allows you to enter any string that conforms to the IPv6 CIDR format. (More details) In a basic network, if an Ipv6CidrBlock contains private IPv6 addresses on Tencent Cloud for devices under your account other than CVMs, it does not mean this policy allows you to access these devices. The network isolation policies between tenants take priority over the private network policies in security groups.
- The `SecurityGroupId` field allows you to enter the IDs of security groups that are in the same project as the security group to be modified, including the ID of the security group itself, to represent private IP addresses of all CVMs under the security group. If this field is used, the policy will change without manual modification according to the CVM associated with the policy ID while being used to match network messages.
- The Port field allows you to enter a single port number, or two port numbers separated by a minus sign to represent a port range, such as 80 or 8000-8010. The Port field is accepted only if the value of the Protocol field is TCP or UDP. In other words, if the value of the Protocol field is not TCP or UDP, Protocol and Port are exclusive and cannot be entered at the same time, otherwise an error will occur with the API.
- The Action field only allows you to enter ACCEPT or DROP.
- `CidrBlock`, `Ipv6CidrBlock`, `SecurityGroupId`, and `AddressTemplate` are exclusive and cannot be entered at the same time. `Protocol` + `Port` and `ServiceTemplate` are mutually exclusive and cannot be entered at the same time.
- 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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateSecurityGroupPolicies.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The security group instance ID, such as sg-33onj9n. This can be obtained through DescribeSecurityGroups.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Adds inbound policies to a security group**

**Input Example**
&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-2uw6ju06
&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-2uw6ju06
&SecurityGroupPolicySet.Ingress.1.Action=accept
&SecurityGroupPolicySet.Ingress.1.PolicyDescription=Test
&<Common request parameter>

Output Example

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

Example2 Adds outbound policies to a security group

Input Example

&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Version=21
&SecurityGroupPolicySet.Egress.0.PolicyIndex=1
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Egress.0.AddressTemplate.AddressId=ipm-2uw6ju06
&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-2uw6ju06
&SecurityGroupPolicySet.Egress.1.PolicyDescription=Test
&<Common request parameter>

Output Example

```
{
  "Response": {
    "RequestId": "53ee3ed3-c9ed-48ba-8a57-8624b9c0d3b8"
  }
}
```

5. Developer Resources

API Explorer

This tool allows online call, signature authentication, SDK code generation and quick search of APIs to greatly improve the efficiency of using TencentCloud APIs.

- API 3.0 Explorer

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
6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.DuplicatePolicy</td>
<td>The security group policies are repeated.</td>
</tr>
<tr>
<td>UnsupportedOperation.VersionMismatch</td>
<td>The specified version number of the security group policy is inconsistent with the latest version.</td>
</tr>
</tbody>
</table>
CreateSecurityGroupWithPolicies

Last updated : 2020-05-15 11:12:15

1. API Description

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

This API (CreateSecurityGroupWithPolicies) is used to create security groups, and add security group policies.

- Note the maximum number of security groups per project in each region under each account.
- Both the inbound and outbound policies for a newly created security group are Deny All by default. You need to call CreateSecurityGroupPolicies to set security group policies according to your needs.

Description:
- **Version**: Indicates the version number of a security group policy, which will automatically increment by 1 every time you update the security policy, 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, or ALL.
- **CidrBlock**: A CIDR block in the correct format. In a basic network, if a CidrBlock contains private IPs on Tencent Cloud for devices under your account other than CVMs, it does not mean this policy allows you to access these devices. The network isolation policies between tenants take priority over the private network policies in security groups.
- **Ipv6CidrBlock**: An IPv6 CIDR block in the correct format. In a basic network, if an Ipv6CidrBlock contains private IPv6 addresses on Tencent Cloud for devices under your account other than CVMs, it does not mean this policy allows you to access these devices. The network isolation policies between tenants take priority over the private network policies in security groups.
- **SecurityGroupId**: ID of the security group. It can be in the same project as the security group to be modified, including the ID of the security group itself, to represent private IP addresses of all CVMs under the security group. If this field is used, the policy will change without manual modification according to the CVM associated with the policy ID while being used to match network messages.
- **Port**: A single port number, or a port range in the format of "8000-8010". The Port field is accepted only if the value of the **Protocol** field is TCP or UDP. Otherwise Protocol and Port are mutually exclusive.
- **Action**: Values can be **ACCEPT** or **DROP**.
- **CidrBlock**, **Ipv6CidrBlock**, **SecurityGroupId**, and **AddressTemplate** are exclusive and cannot be entered at the same time. "Protocol + Port" and **ServiceTemplate** are mutually exclusive and cannot be entered at the same time.
- 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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateSecurityGroupWithPolicies.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>GroupName</td>
<td>Yes</td>
<td>String</td>
<td>Security group can be named freely, but cannot exceed 60 characters.</td>
</tr>
<tr>
<td>GroupDescription</td>
<td>Yes</td>
<td>String</td>
<td>The remarks for the security group. The maximum length is 100 characters.</td>
</tr>
</tbody>
</table>
### 3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td></td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

### 4. Example

**Example 1: Creates a security group**

**Input Example**

```plaintext
&Version=2017-03-12
&GroupName=TestGroup
&GroupDescription=test-group-desc
&<Common request parameter>
```

**Output Example**

```json
{
  "Response": {
    "RequestID": "354f4ac3-8546-4516-8c8a-69a3ab73aa8a",
    "SecurityGroup": {
      "SecurityGroupId": "sg-12345678",
      "SecurityGroupName": "TestGroup",
      "SecurityGroupDesc": "test-group-desc",
      "ProjectId": "0",
      "CreateTime": "2018-01-13 19:26:33"
    }
  }
}
```

**Example 2: Creates security groups and their policies**

**Input Example**

```plaintext
&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-2um6uj06
&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-2um6uj06
&SecurityGroupPolicySet.Egress.1.PolicyDescription=Test
&<Common request parameter>
```

**Output Example**

```json
{
  "Response": {
    "RequestID": "354f4ac3-8546-4516-8c8a-69a3ab73aa8a",
    "SecurityGroup": {
      "SecurityGroupId": "sg-12345678",
      "SecurityGroupName": "TestGroup",
      "SecurityGroupDesc": "test-group-desc",
      "ProjectId": "0",
      "CreateTime": "2018-01-13 19:26:33"
    }
  }
}
```
[Response]:
  [RequestID]: "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
  [SecurityGroup]: {
    [SecurityGroupId]: "sg-12345678",
    [SecurityGroupName]: "TestGroup",
    [SecurityGroupDesc]: "test-group-desc",
    [ProjectId]: "0",
    [CreateTime]: "2018-01-13 19:26:33"
  }
}

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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DeleteSecurityGroup

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteSecurityGroup.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The security group instance ID, such as sg-33ocnj9n. This can be obtained through DescribeSecurityGroups.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deleting a security group

Input Example

```
&Version=2017-03-12
&SecurityGroupId=sg-kxxx1gb1
&<Common Request Parameters>
```

Output Example

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

**Command Line Interface**
- Tencent Cloud CLI 3.0

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidSecurityGroupId.Malformed</td>
<td>Invalid security group. The security group instance ID is invalid.</td>
</tr>
<tr>
<td>InvalidSecurityGroupId.NotFound</td>
<td>Invalid security group. The security group instance ID does not exist.</td>
</tr>
</tbody>
</table>
DeleteSecurityGroupPolicies

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteSecurityGroupPolicies.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The security group instance ID, such as sg-33onj9hi. This can be obtained through DescribeSecurityGroups.</td>
</tr>
<tr>
<td>SecurityGroupPolicySet</td>
<td>Yes</td>
<td>SecurityGroupPolicySet</td>
<td>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.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Using policy matching to delete inbound policies of security groups**

**Input Example**

```plaintext
&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

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

Example2 Using policy matching to delete outbound policies of security groups

**Input Example**

```xml
&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Version=38
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceGroupId=ppmg-ei8hf9a
&SecurityGroupPolicySet.Egress.0.CidrBlock=10.9.89.9/25
&SecurityGroupPolicySet.Egress.0.Action=accept
&<Common Request Parameters>
```

Output Example

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

Example3 Using index matching to delete inbound policies of security groups

**Input Example**

```xml
&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Ingress.0.PolicyIndex=0
&SecurityGroupPolicySet.Ingress.1.PolicyIndex=1
&<Common Request Parameters>
```

Output Example

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

Example4 Using index matching to delete outbound policies of security groups

**Input Example**

```xml
&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

```json
{
    "Response": {
        "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
    }
}
```
5. Developer Resources

**API Explorer**
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- **API 3.0 Explorer**

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

**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.VersionMismatch</td>
<td>The specified version number of the security group policy is inconsistent with the latest version.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeSecurityGroupAssociationStatistics.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The Security instance ID, such as sg-33ocnj9n. It can be obtained through DescribeSecurityGroups.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Querying statistics on the instances associated with the security group**

**Input Example**

```
&Version=2017-03-12
&SecurityGroupIds.0=sg-ohuuioma
&SecurityGroupIds.1=sg-2quou3gv
&<Common request parameters>
```

**Output Example**

```
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "SecurityGroupAssociationStatisticsSet": [ {
      "SecurityGroupId": "sg-2quou3gv",
    }
```
5. Developer Resources

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeSecurityGroupPolicies

Last updated : 2020-03-06 20:26:30

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeSecurityGroupPolicies.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The security group instance ID, such as sg-33ocnj9n. It can be obtained through DescribeSecurityGroups.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying security group policies

Input Example

&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&<Common request parameters>

Output Example

```json
{
    "Response": {
        "SecurityGroupPolicySet": {
            "Ingress": [{
                "PolicyIndex": 0,
                "Direction": "INGRESS",
                "ServiceTemplate": 
            }
        }
    }
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
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</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeSecurityGroups

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeSecurityGroups.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The security group instance ID, such as sg-33ocnj9n. It can be obtained through DescribeSecurityGroups. Each request can have a maximum of 100 instances. SecurityGroupIds and Filters cannot be specified at the same time.</td>
</tr>
</tbody>
</table>
| Filters.N      | No       | Array of Filter | Filter conditions. SecurityGroupIds and Filters cannot be specified at the same time.  
  - security-group-id - String - (Filter condition) The security group ID.  
  - project-id - Integer - (Filter condition) The project ID.  
  - security-group-name - String - (Filter condition) The security group name.  
  - tag-key - String - Required: no - (Filter condition) Filters by tag key. For more information, see Example 2.  
  - 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. |
| Offset         | No       | String | Offset. Default value: 0. |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying security groups

Input Example
&Limit=1
&Filters.0.Name=project-id
&Filters.0.Values=0
&Filters.1.Name=security-group-name
&Filters.1.Values=TestGroup
&<Common request parameter>

Output Example

```json
{
  "Response": {
    "SecurityGroupSet": [
      {
        "SecurityGroupId": "sg-05bb4upy",
        "SecurityGroupName": "TestGroup",
        "SecurityGroupDesc": "test-group-desc",
        "ProjectId": "0",
        "CreateTime": "2017-04-18 21:02:30"
      }
    ],
    "TotalCount": 1,
    "RequestId": "7488361b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

Example2 Querying security groups bound with the tag

Queries using tag:tag-key.

Input Example

&Filters.0.Name=tag:Version
&Filters.0.Values=TEST
&<Common request parameter>

Output Example

```json
{
  "Response": {
    "SecurityGroupSet": [
      {
        "SecurityGroupId": "sg-2got2lcz",
        "SecurityGroupName": "test",
        "SecurityGroupDesc": "Exposing all ports to the Internet and private network may introduce security risks",
        "ProjectId": "0",
        "IsDefault": false,
        "CreatedTime": "2019-07-23 12:32:24",
        "TagSet": [
          {
            "Key": "Tag key",
            "Value": "Tag value"
          },
          {
            "Key": "Version",
            "Value": "TEST"
          },
          {
            "Key": "Version",
            "Value": "DEV"
          }
        ],
        "TotalCount": 1,
        "RequestId": "85cda7d1-6608-4eca-8d82-19937c12dd84"
      }
    ],
    "TotalCount": 1,
    "RequestId": "85cda7d1-6608-4eca-8d82-19937c12dd84"
  }
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifySecurityGroupAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The security group instance ID, such as sg-33ocnj9n. This can be obtained through DescribeSecurityGroups.</td>
</tr>
<tr>
<td>GroupName</td>
<td>No</td>
<td>String</td>
<td>Security group can be named freely, but cannot exceed 60 characters.</td>
</tr>
<tr>
<td>GroupDescription</td>
<td>No</td>
<td>String</td>
<td>The remarks for the security group. The maximum length is 100 characters.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Modifying security group attributes**

**Input Example**

```plaintext
&Version=2017-03-12
&SecurityGroupId=sg-33ocnj9n
&GroupName=TestGroupName
&GroupDescription=test-group-desc
<Common Request Parameters>
```

**Output Example**

```json
{
  "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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
ModifySecurityGroupPolicies

Last updated: 2020-05-15 11:12:12

1. API Description

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

This API (ModifySecurityGroupPolicies) is used to reset the egress and ingress policies (SecurityGroupPolicy) of a security group.

- This API deletes all the current egress and ingress policies, and then adds new Egress and Ingress policies. It does not support custom PolicyIndex indexes.
- If SecurityGroupPolicySet.Version is set to 0, all policies will be cleared, and Egress and Ingress will be ignored.
- The value of the Protocol field can be TCP, UDP, ICMP, ICMPV6, GRE, or ALL.
- The CidrBlock field allows you to enter any string that conforms to the CIDR format. (More details) In a basic network, if a CidrBlock contains private IP addresses on Tencent Cloud for devices under your account other than CVMs, it does not mean this policy allows you to access these devices. The network isolation policies between tenants take priority over the private network policies in security groups.
- The Ipv6CidrBlock field allows you to enter any string that conforms to the IPv6 CIDR format. (More details) In a basic network, if an Ipv6CidrBlock contains private IPv6 addresses on Tencent Cloud for devices under your account other than CVMs, it does not mean this policy allows you to access these devices. The network isolation policies between tenants take priority over the private network policies in security groups.
- The SecurityGroupId field allows you to enter the IDs of security groups that are in the same project as the security group to be modified, including the ID of the security group itself, to represent private IP addresses of all CVMs under the security group. If this field is used, this policy will change without manual modification according to the CVM associated with the policy ID while being used to match network messages.
- The Port field allows you to enter a single port number, or two port numbers separated by a minus sign to represent a port range, such as 80 or 8000-8010. The Port field can be used only when the value of the Protocol field is TCP or UDP.
- The Action field only allows you to enter ACCEPT or DROP.
- CidrBlock, Ipv6CidrBlock, SecurityGroupId, and AddressTemplate are exclusive and cannot be entered at the same time. Protocol + Port and ServiceTemplate are mutually exclusive and cannot be entered at the same time.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifySecurityGroupPolicies.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The security group instance ID, such as sg-33ocnj9n. This can be obtained through DescribeSecurityGroups.</td>
</tr>
<tr>
<td>SortPolicys</td>
<td>No</td>
<td>Boolean</td>
<td>Whether security group sorting is supported. True indicates that security group sorting is supported. If SortPolicys does not exist or is set to False, the security group policy can be modified.</td>
</tr>
</tbody>
</table>

3. Output Parameters
<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

### 4. Example

**Example1** Modifies the outbound and inbound policies of a security group

**Input Example**

```plaintext
&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Egress.0.AddressTemplate.AddressId=ipm-2w6ujo6
&SecurityGroupPolicySet.Egress.0.Action=accept
&SecurityGroupPolicySet.Egress.0.PolicyDescription=TestPolicy
&SecurityGroupPolicySet.Ingress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Ingress.0.AddressTemplate.AddressId=ipm-2w6ujo6
&SecurityGroupPolicySet.Ingress.0.Action=accept
&SecurityGroupPolicySet.Ingress.0.PolicyDescription=Test
&<Common request parameter>
```

**Output Example**

```plaintext
{  
  "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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>

ReplaceSecurityGroupPolicy

Last updated: 2020-05-15 11:12:11
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ReplaceSecurityGroupPolicy.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SecurityGroupId</td>
<td>Yes</td>
<td>String</td>
<td>The security group instance ID, such as sg-33ocnj9n. This can be obtained through DescribeSecurityGroups.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Replaces a single routing policy of a security group**

**Input Example**

```xml
&Version=2017-03-12
&SecurityGroupId=sg-ohuuioma
&SecurityGroupPolicySet.Version=20
&SecurityGroupPolicySet.Egress.0.PolicyIndex=2
&SecurityGroupPolicySet.Egress.0.ServiceTemplate.ServiceId=ppm-f5n1f8da
&SecurityGroupPolicySet.Egress.0.AddressTemplate.AddressId=ipm-2uw6oj6
&SecurityGroupPolicySet.Egress.0.Action=accept
&SecurityGroupPolicySet.Egress.0.PolicyDescription=TestPolicy
&<Common request parameter>
```

**Output Example**

```json
{
  "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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.VersionMismatch</td>
<td>The specified version number of the security group policy is inconsistent with the latest version.</td>
</tr>
</tbody>
</table>
VPC APIs
CheckAssistantCidr
Last updated: 2020-05-15 11:12:08

1. API Description

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

This API (CheckAssistantCidr) is used to check overlapping of a secondary CIDR block with inventory routing, peering connection (opposite VPC CIDR block), and any other resources. If an overlap is present, the overlapped resources are returned. (To use this API that is in Beta, please submit a ticket.)

- Check whether the secondary CIDR block overlaps with a primary or secondary CIDR block of the current VPC.
- Check whether the secondary CIDR block overlaps with the routing destination of the current VPC.
- Check whether the secondary CIDR block is peer-connected to the current VPC, and whether it overlaps with a main or secondary CIDR block of the opposite VPC.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CheckAssistantCidr.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC instance ID, e.g. vpc-6v2ht8q5 .</td>
</tr>
<tr>
<td>NewCidrBlocks.N</td>
<td>No</td>
<td>Array of String</td>
<td>Load CIDR blocks to add. CIDR block set; format: e.g. [&quot;10.0.0.0/16&quot;, &quot;172.16.0.0/16&quot;]</td>
</tr>
<tr>
<td>OldCidrBlocks.N</td>
<td>No</td>
<td>Array of String</td>
<td>Load CIDR blocks to delete. CIDR block set; Format: e.g. [&quot;10.0.0.0/16&quot;, &quot;172.16.0.0/16&quot;]</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConflictSourceSet</td>
<td>Array of ConflictSource</td>
<td></td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Checks secondary CIDR block conflicts

CIDR block does not conflict with the existing VPC information.
Input Example

https://vpc.tencentcloudapi.com/?Action=CheckAssistantCidr
&Version=2017-03-12
&VpcId=vpc-12345678
&NewCidrBlocks.0=172.16.0.0/24
&<Common request parameter>

Output Example

{
"Response": {
"ConflictSourceSet": [],
"RequestId": "6e57b8db-4307-4135-b513-8c3d0e12aa4e"}
}

Example2 Checks secondary CIDR block conflicts-2
CIDR block conflicts with the existing VPC information.

Input Example

https://vpc.tencentcloudapi.com/?Action=CheckAssistantCidr
&Version=2017-03-12
&VpcId=vpc-12345678
&NewCidrBlocks.0=172.16.0.0/24
&<Common request parameter>

Output Example

{
"Response": {
"ConflictSourceSet": [],
"RequestId": "e906fed4-292c-44ba-a240-f5bd6de9df84c7"}
}

5. Developer Resources

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetConflict</td>
<td>Subnet CIDR conflict.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
CreateAssistantCidr

1. API Description

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

This API (CreateAssistantCidr) is used to batch create secondary CIDR blocks. (To use this API that is in Beta, please submit a ticket.)

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateAssistantCidr.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC instance ID, e.g. vpc-8v2ht8y5.</td>
</tr>
<tr>
<td>CidrBlocks.N</td>
<td>Yes</td>
<td>Array of</td>
<td>CIDR set, e.g. [&quot;10.0.0.0/16&quot;, &quot;172.16.0.0/16&quot;]</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssistantCidrSet</td>
<td>Array of AssistantCidr</td>
<td>A set of secondary CIDR blocks. Note: This field may return null, indicating that no valid value was found.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Creates secondary CIDR blocks**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=CreateAssistantCidr
&Version=2017-03-12
&VpcId=vpc-12345678
&CidrBlocks.0=Cidr0
&CidrBlocks.1=Cidr1
&CidrBlocks.2=Cidr2
&<Common request parameter>
```

**Output Example**

```json
{
    "Response": {
```
"AssistantCidrSet": [ 
  
  "VpcId": "vpc-12345678",
  "CidrBlock": "172.16.0.0/24",
  "AssistantType": 0
  
  ]
  
  "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0"
}

5. Developer Resources

API Explorer

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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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetRange</td>
<td>Invalid subnet CIDR.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
</tbody>
</table>
DeleteAssistantCidr

1. API Description

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

This API (DeleteAssistantCidr) is used to delete secondary CIDR blocks. (To use this API that is in Beta, please submit a ticket.)

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteAssistantCidr.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC instance ID, e.g. vpc-8v2h8a5.</td>
</tr>
<tr>
<td>CidrBlocks.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>CIDR set, e.g. [&quot;10.0.0.0/16&quot;, &quot;172.16.0.0/16&quot;]</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deletes secondary CIDR blocks

Input Example

```
https://vpc.tencentcloudapi.com/?Action=DeleteAssistantCidr
&Version=2017-03-12
&VpcId=vpc-12345678
&CidrBlocks.N=172.16.0.0/24
&<Common request parameter>
```

Output Example

```
{
  "Response": {
    "RequestId": "2fd3d9b3-42cb-4d8b-9e19-d97e978df8eb"
  }
}
```
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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceInUse</td>
<td>The resource is occupied.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeAssistantCidr

Last updated: 2020-05-15 11:12:05

1. API Description

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

This API (DescribeAssistantCidr) is used to query a list of secondary CIDR blocks. (To use this API that is in Beta, please submit a ticket.)

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeAssistantCidr.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The ID of a VPC instance set, such as vpc-6v2ht8q5.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. NetworkInterfaceIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset. Default value: 0.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>Number of returned results. Default value: 20. Maximum value: 100.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
</table>
| AssistantCidrSet | Array of AssistantCidr | 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

Example 1 Queries a list of secondary CIDR blocks

Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeAssistantCidr
&Version=2017-03-12
&<Common request parameter>
```
Output Example

```json
{
   "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

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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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
</tbody>
</table>
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 basic network device.

- The VPC instance and the basic network device must be in the same region.
- For differences between VPC and basic networks, see VPC and Basic Networks.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AttachClassicLinkVpc.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC instance ID</td>
</tr>
<tr>
<td>InstanceIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>CVM Instance ID</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Creating a Classiclink**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=AttachClassicLinkVpc
&Version=2017-03-12
&VpcId=vpc-gjui0b5t
&InstanceIds.0=ins-0x5msjda
&<Common Request Parameters>
```

**Output Example**

```

{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a"
  }
}
```
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- API 3.0 Explorer

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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
<tr>
<td>UnsupportedOperation.CIDRUnSupportedClassicLink</td>
<td>The specified VPC CIDR range does not support Classiclink.</td>
</tr>
<tr>
<td>UnsupportedOperation.ClassicInstanceIdAlreadyExists</td>
<td>The instance has already been bound to the VPC.</td>
</tr>
</tbody>
</table>
CreateDefaultVpc

1. API Description

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

This API is used to create a default VPC.

The default VPC is suitable for getting started with and launching public instances, and it can be used like any other VPCs. To create a standard VPC, for which you need to specify a VPC name, VPC IP range, subnet IP range, and subnet availability zone, use the regular CreateVpc API.

Under normal circumstances, 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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateDefaultVpc.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>Zone</td>
<td>No</td>
<td>String</td>
<td>The ID of the availability zone in which the subnet resides. The availability zone will be randomly selected if not specified.</td>
</tr>
<tr>
<td>Force</td>
<td>No</td>
<td>Boolean</td>
<td>Whether to forcibly return a default VPC</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vpc</td>
<td>DefaultVpcSubnet</td>
<td>Default VPC and subnet IDs</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating a default VPC

Input Example

https://vpc.tencentcloudapi.com/?Action=CreateDefaultVpc
&Version=2017-03-12
&{Common Request Parameters}
Output Example

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

Example2 The network attributes (DescribeAccountAttributes) of the user account support both the basic network and VPC. If a default VPC is not created as required, the returned VpcId is 0, indicating that a default VPC is not created.

Input Example

```
&<Common Request Parameters>
```

Output Example

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

Example3 Creating a default VPC as required

Input Example

```
&Force=true
&<Common Request Parameters>
```

Output Example

```
{
    "Response": {
        "Vpc": {
            "VpcId": "vpc-8mpwlbdv",
            "SubnetId": "subnet-l9emqwnw"
        },
        "RequestId": "91348b0a-6846-49ff-822b-a21eef648c9f"
    }
}
```

5. Developer Resources

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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.
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeVpcInstances.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
</tbody>
</table>
| Filters.N   | Yes      | Array of Filter | Filter condition. RouteTableIds and Filters cannot be specified at the same time.  
  - vpc-id - String - (Filter condition) VPC instance ID, such as vpc-f49l6u0z.  
  - instance-type - String - (Filter condition) CVM instance ID.  
  - instance-name - String - (Filter condition) CVM name. |
| Offset      | No       | Integer       | Offset.                                                                                                                                     |
| Limit       | No       | Integer       | The number of requested objects.                                                                                                             |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceSet</td>
<td>Array of CvmInstance</td>
<td>List of CVM instances.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of eligible CVM instances.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Queries a list of VCM instances on VPC**

**Input Example**

https://vpc.tencentcloudapi.com/?Action=DescribeVpcInstances
&Version=2017-03-12
&Filters.0.Name=vpc-id
&Filters.0.Values.0=vpc-f49l6u0z
&Offset=0

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Output Example

```json
{
    "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,
                "CreatedTime": "2020-01-01 10:00:00"
            }
        ],
        "TotalCount": 1,
        "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
    }
}
```

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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.Range</td>
<td>The parameter value is not in the specified range.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
CreateVpc

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), and that of the largest IP address range is 16 (65,536 IP addresses). For more information, see the corresponding documents about VPC IP address ranges.
- 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, contact the online customer service.
- You can bind a tag 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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateVpc.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcName</td>
<td>Yes</td>
<td>String</td>
<td>The VPC name. The maximum length is 60 bytes.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>Yes</td>
<td>String</td>
<td>VPC CIDR, which must fall within the following private network IP ranges: 10.0.0.0/16, 172.16.0.0/16, and 192.168.0.0/16.</td>
</tr>
<tr>
<td>EnableMulticast</td>
<td>No</td>
<td>String</td>
<td>Whether multicast is enabled. true : Enabled. false : Not enabled.</td>
</tr>
<tr>
<td>DnsServers.N</td>
<td>No</td>
<td>Array of String</td>
<td>The DNS address. A maximum of 4 addresses is supported.</td>
</tr>
<tr>
<td>DomainName</td>
<td>No</td>
<td>String</td>
<td>Domain name</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>Bound tags, such as [{&quot;Key&quot;: &quot;city&quot;, &quot;Value&quot;: &quot;shanghai&quot;}].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vpc</td>
<td>Vpc</td>
<td>The VPC object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating a VPC instance
**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=CreateVpc
&Version=2017-03-12
&VpcName=TestVPC
&CidrBlock=10.8.0.0/16
&Tags.0.Key=city
&Tags.0.Value=shanghai
&(Common request parameters)
```

**Output Example**

```plaintext
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "Vpc": {
      "VpcId": "vpc-4tboefn3",
      "VpcName": "TestVPC",
      "EnableMulticast": false,
      "CidrBlock": "10.8.0.0/16",
      "TagSet": [
        {
          "Key": "city",
          "Value": "shanghai"
        }
      ]
    }
  }
}
```

5. Developer Resources

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**Command Line Interface**

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6. Error Code

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<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>

DeleteVpc
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. **Input Parameters**

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteVpc.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.</td>
</tr>
</tbody>
</table>

3. **Output Parameters**

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. **Example**

**Example1 Deleting a VPC**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DeleteVpc
&Version=2017-03-12
&VpcId=vpc-g69ed0kj
&<Common Request Parameters>
```

**Output Example**

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

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**Command Line Interface**
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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceInUse</td>
<td>The resource is occupied.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeAccountAttributes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountAttributeSet</td>
<td>Array of AccountAttribute</td>
<td>User account attribute object</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the network attributes of an account

This example only supports VPC.

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=DescribeAccountAttributes
&Version=2017-03-12
&<Common request parameter>
```

**Output Example**

```json
{
  "Response": {
    "AccountAttributeSet": [
      {
        "AttributeName": "supported-platforms",
        "AttributeValue": [
          "VPC"
        ]
      }
    ]
  }
}
```
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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.
DescribeClassicLinkInstances

Last updated: 2020-03-06 20:26:19

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeClassicLinkInstances.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
</tbody>
</table>
| Filters.N      | No       | Array of FilterObject | Filter conditions.  
  - vpc-id - String - (Filter condition) The VPC instance ID.  
  - vm-ip - String - (Filter condition) The IP address of the CVM on the basic network. |
| Offset         | No       | String             | Offset |
| Limit          | No       | String             | The returned quantity |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>ClassicLinkInstanceSet</td>
<td>Array of ClassicLinkInstance</td>
<td>Classiclink instance.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the list of Classiclink

Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeClassicLinkInstances
&Version=2017-03-12
&Filters.0.Name=vpc-id
&Filters.0.Values.0=vpc-gjuil0b5t
&Filters.1.Name=vm-ip
&Filters.1.Values.0=10.9.0.3.0
&<Common Request Parameters>
```
5. Developer Resources

API Explorer
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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Range</td>
<td>The parameter value is not in the specified range.</td>
</tr>
</tbody>
</table>
DescribeVpcs

Last updated : 2020-05-15 11:12:03

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeVpcs.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The VPC instance ID, such as vpc-f4916u0z. Each request supports a maximum of 100 instances. VpcIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. VpcIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>String</td>
<td>Offset. Default value: 0.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of objects meeting the condition.</td>
</tr>
<tr>
<td>VpcSet</td>
<td>Array of Vpc</td>
<td>The VPC object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the VPC list

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeVpcs
&Offset=0
Output Example

```json
{
  "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",
        "DhcpOptionsId": "dopt-8g7k5qfq",
        "DnsServerSet": [
          "10.0.0.1",
          "183.60.82.98"
        ],
        "DomainName": "aa.bb.cc"
      }
    ],
    "TotalCount": 1,
    "RequestId": "6a44afb7-0644-4ff9-9761-3502f90e3a15"
  }
}
```

Example2 Querying the list of VPCs bound to the tag

This example shows you how to query VPCs bound to a tag-key pair (city: Shanghai).

Input Example

```
https://vpc.tencentcloudapi.com/?Action=DescribeVpcs
&Offset=0
&Limit=2
&Filters.0.Name=tag:city
&Filters.0.Values.0=shanghai
&Common request parameter
```

Output Example

```json
{
  "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",
        "DhcpOptionsId": "dopt-8g7k5qfq",
        "DnsServerSet": [
          "10.0.0.1",
          "183.60.82.98"
        ],
        "TagSet": [
          {
            "Key": "city",
            "Value": "shanghai"
          }
        ]
      }
    ],
    "TotalCount": 1,
    "RequestId": "6a44afb7-0644-4ff9-9761-3502f90e3a15"
  }
}
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Command Line Interface

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (ModifyAssistantCidr) is used to batch modify (e.g. add and delete) secondary CIDR blocks. (To use this API that is in Beta, please submit a ticket.)

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyAssistantCidr.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC instance ID, e.g. vpc-6v2ht8q5.</td>
</tr>
<tr>
<td>NewCidrBlocks.N</td>
<td>No</td>
<td>Array of String</td>
<td>Load CIDR blocks to add. CIDR block set; format: e.g. [&quot;10.0.0.0/16&quot;, &quot;172.16.0.0/16&quot;]</td>
</tr>
<tr>
<td>OldCidrBlocks.N</td>
<td>No</td>
<td>Array of String</td>
<td>Load CIDR blocks to delete. CIDR block set; Format: e.g. [&quot;10.0.0.0/16&quot;, &quot;172.16.0.0/16&quot;]</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssistantCidrSet</td>
<td>Array of AssistantCidr</td>
<td>A set of secondary CIDR blocks. Note: This field may return null, indicating that no valid value was found.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Only modify CIDR block**

Add secondary CIDR block: 172.16.1.0/24.

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=ModifyAssistantCidr
&Version=2017-03-12
&VpcId=vpc-12345678
&NewCidrBlocks.0=172.16.1.0/24
&<Common request parameter>
```
Output Example

```json
{
  "Response": {
    "AssistantCidrSet": [
      {
        "VpcId": "vpc-12345678",
        "CidrBlock": "172.16.0.0/24",
        "AssistantType": 0
      }
    ],
    "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0",
  }
}
```

Example 2: Modifies (add and delete) auxiliary CIDR block

Add secondary CIDR block 172.16.1.0/24 while deleting 172.16.0.0/24.

Input Example

```url
https://vpc.tencentcloudapi.com/?Action=ModifyAssistantCidr
&Version=2017-03-12
&VpcId=vpc-12345678
&NewCidrBlocks.0=172.16.1.0/24
&OldCidrBlocks.0=172.16.0.0/24
&<Common request parameter>
```

Output Example

```json
{
  "Response": {
    "AssistantCidrSet": [
      {
        "VpcId": "vpc-12345678",
        "CidrBlock": "172.16.1.0/24",
        "AssistantType": 0
      }
    ],
    "RequestId": "6aa316a4-07d2-4355-b87d-40b7f22972b0",
  }
}
```

5. Developer Resources

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- Tencent Cloud CLI 3.0
6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetConflict</td>
<td>Subnet CIDR conflict.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>ResourceInUse</td>
<td>The resource is occupied.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (DetachClassicLinkVpc) is used to delete a Classiclink.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DetachClassicLinkVpc.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.</td>
</tr>
<tr>
<td>InstanceIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>Queries the ID of the CVM instance, such as ins-r8hr2upy.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Deleting a Classiclink**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DetachClassicLinkVpc
&Version=2017-03-12
&VpcId=vpc-gjui0b5t
&InstanceIds.0=ins-0x5msjda
&<Common Request Parameters>
```

**Output Example**

```
{
   "Response": {
      "RequestId": "35f41ac3-8546-4516-8c8a-69e3ab73aa8a"
   }
}
```
5. Developer Resources

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyVpcAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>Security group can be named freely, but cannot exceed 60 characters.</td>
</tr>
<tr>
<td>VpcName</td>
<td>No</td>
<td>String</td>
<td>VPC can be named freely, but the maximum length is 60 characters.</td>
</tr>
<tr>
<td>EnableMulticast</td>
<td>No</td>
<td>String</td>
<td>Whether multicast is enabled. true: Enabled. false: Off.</td>
</tr>
<tr>
<td>DnsServers.N</td>
<td>No</td>
<td>Array of String</td>
<td>DNS address. A maximum of 4 addresses is supported. The first one is master server by default, and the rest are slave servers.</td>
</tr>
<tr>
<td>DomainName</td>
<td>No</td>
<td>String</td>
<td>Domain name</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Modifying VPC attributes**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=ModifyVpcAttribute
&Version=2017-03-12
&VpcName=MyTest
&VpcId=vpc-m7sr81gh
&EnableMulticast=true
&<Common Request Parameters>
```

**Output Example**
5. Developer Resources

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
AssignIpv6CidrBlock

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AssignIpv6CidrBlock.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC, such as vpc-f49l6u0z.</td>
</tr>
</tbody>
</table>

3. Output Parameters

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

4. Example

Example1 Assign IPv6 ranges

Input Example

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

Output Example

```json
{
   "Response": {
      "Ipv6CidrBlock": "3402:4e00:20:1000::/56",
      "RequestId": "7f221557-b667-440a-8cfe-cc6f0de2a234"
   }
}
```
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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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LimitExceeded.CidrBlock</td>
<td>The number of assigned IP ranges of the VPC has reached the upper limit.</td>
</tr>
<tr>
<td>ResourceInsufficient.CidrBlock</td>
<td>The IP range resources are insufficient.</td>
</tr>
</tbody>
</table>
Virtual Private Cloud

DescribeVpcIpv6Addresses

Last updated: 2020-03-05 23:07:33

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeVpcIpv6Addresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC, such as vpc-f4916u8z.</td>
</tr>
<tr>
<td>Ipv6Addresses.N</td>
<td>No</td>
<td>Array of String</td>
<td>The IP address list. Each request supports a maximum of 10 batch querying.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>The returned quantity.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ipv6AddressSet</td>
<td>Array of VpcIpv6Address</td>
<td>The IPv6 address list.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The total number of IPv6 addresses.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the IPv6 address list of a VPC

Input Example

https://vpc.tencentcloudapi.com/?Action=DescribeVpcIpv6Addresses
&VpcId=vpc-rkx53pgh
<Common Request Parameters>

Output Example

```json
{
  "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": "2402:4e00:1000:108:0:8d24:698c:59e6",
        "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

**API Explorer**

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- API 3.0 Explorer

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.
UnassignIpv6CidrBlock

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: UnassignIpv6CidrBlock.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC, such as vpc-f49l6u0z.</td>
</tr>
<tr>
<td>Ipv6CidrBlock</td>
<td>No</td>
<td>String</td>
<td>The IPv6 IP range, such as 3402:4e00:20:1000::/56.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Release IPv6 range

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=UnassignIpv6CidrBlock
&VpcId=vpc-rkxd3gh
&Ipv6CidrBlock=3402:4e00:20:1000::/56
&<common request parameters>
```

**Output Example**

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

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResourceInUse</td>
<td>The resource is occupied.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeVpcPrivateIpAddresses

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeVpcPrivateIpAddresses.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC, such as vpc-f49l6u0z.</td>
</tr>
<tr>
<td>PrivateIpAddresses.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>The private IP address list. Each request supports a maximum of 10 batch querying.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcPrivateIpAddressSet</td>
<td>Array of VpcPrivateIpAddress</td>
<td>The list of private IP address information.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Query the IP of VPC in batches

Input Example

```xml
https://vpc.tencentcloudapi.com/?Action=DescribeVpcPrivateIpAddresses
&VpcId=vpc-rx5d3g0h
&PrivateIpAddresses.0=10.4.2.2
&PrivateIpAddresses.1=10.4.2.3
&PrivateIpAddresses.2=10.4.2.17
&<common request parameters>
```

Output Example
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
VPN Gateway APIs
CreateCustomerGateway

Last updated : 2020-05-15 11:12:01

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateCustomerGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CustomerGatewayName</td>
<td>Yes</td>
<td>String</td>
<td>Customer gateway can be named freely, but the maximum length is 60 characters.</td>
</tr>
<tr>
<td>IpAddress</td>
<td>Yes</td>
<td>String</td>
<td>Customer gateway public IP.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CustomerGateway</td>
<td>CustomerGateway</td>
<td>Customer gateway object</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating a customer gateway

Input Example

https://vpc.tencentcloudapi.com/?Action=CreateCustomerGateway
&Version=2017-03-12
&CustomerGatewayName=test-cgw
&IpAddress=58.211.1.12
&<Common request parameter>

Output Example

```json
{
  "Response": {
    "CustomerGateway": {
      "CustomerGatewayId": "cgw-mgp33pl1",
      "IpAddress": "58.211.1.12",
    }
  }
}```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>VpcLimitExceeded</td>
<td>The maximum number of VPC resource requests for the specified region has been reached.</td>
</tr>
</tbody>
</table>
CreateVpnConnection

1. API Description

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

This API (CreateVpnConnection) is used to create VPN tunnel. A maximum of 100 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateVpnConnection.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>CustomerGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the customer gateway, such as cgw-2wqq41m9. You can query the customer gateway by using the DescribeCustomerGateways API.</td>
</tr>
<tr>
<td>VpnConnectionName</td>
<td>Yes</td>
<td>String</td>
<td>Gateway can be named freely, but the maximum length is 60 characters.</td>
</tr>
<tr>
<td>PreShareKey</td>
<td>Yes</td>
<td>String</td>
<td>The pre-shared key.</td>
</tr>
<tr>
<td>SecurityPolicyDatabases.N</td>
<td>Yes</td>
<td>Array of SecurityPolicyDatabase</td>
<td>The SPD policy group, for example: {&quot;10.0.0.5/24&quot;:&quot;172.123.10.5/16&quot;}. 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.</td>
</tr>
<tr>
<td>IKEOptionsSpecification</td>
<td>No</td>
<td>IKEOptionsSpecification</td>
<td>Internet Key Exchange (IKE) configuration. IKE has a self-protection mechanism. The network security protocol is configured by the user.</td>
</tr>
<tr>
<td>IPSECOptionsSpecification</td>
<td>No</td>
<td>IPSECOptionsSpecification</td>
<td>IPSec configuration. The IPSec secure session configuration is provided by Tencent Cloud.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpnConnection</td>
<td>VpnConnection</td>
<td>Tunnel instance object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creating a VPN tunnel
### Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateVpnConnection
&Version=2017-03-12
&VpcId=vpc-gapcv96p
&VpnGatewayId=vpngw-1w9tue3d
&CustomerGatewayId=cgw-qa9sxpy7
&VpnConnectionName=TEST_CONN
&PreShareKey=654321
&SecurityPolicyDatabases.0.LocalCidrBlock=10.8.4.0/24
&SecurityPolicyDatabases.0.RemoteCidrBlock.0=58.211.1.0/24
&IKEOptionsSpecification.DhGroupName=GROUP1
&IKEOptionsSpecification.ExchangeMode=MAIN
&IKEOptionsSpecification.IKEVersion=IKEV1
&IKEOptionsSpecification.LocalIdentity=ADDRESS
&IKEOptionsSpecification.LocalAddress=58.211.2.5
&IKEOptionsSpecification.RemoteIdentity=ADDRESS
&IKEOptionsSpecification.RemoteAddress=1.2.3.4
&IKEOptionsSpecification.PreSharedKey=654321
&IPSECOptionsSpecification.EncryptAlgorithm=3DES-CBC
&IPSECOptionsSpecification.IntegrityAlgorithm=MD5
&IPSECOptionsSpecification.PfsDhGroup=NULL
&<Common Request Parameters>
```

### Output Example

```
{
  "Response": {
    "VpnConnection": {
      "VpcId": "vpc-gapcv96p",
      "VpnConnectionName": "TEST_CONN",
      "VpnGatewayId": "vpngw-1w9tue3d",
      "CustomerGatewayId": "cgw-qa9sxpy7",
      "State": "PENDING"
    },
    "RequestId": "74883e1b-5901-46de-aexe-d6e2cf591c56"
  }
}
```

### 5. Developer Resources

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#### Command Line Interface

- Tencent Cloud CLI 3.0

### 6. Error Code
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.VpcCidrConflict</td>
<td>Destination IP address range conflicts with CIDR of the current VPC.</td>
</tr>
</tbody>
</table>
CreateVpnGateway

Last updated: 2020-05-15 11:12:00

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateVpnGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC instance. You can obtain the parameter value from the VpcId field in the returned result of DescribeVpcs API.</td>
</tr>
<tr>
<td>VpnGatewayName</td>
<td>Yes</td>
<td>String</td>
<td>The VPN gateway name. The maximum length is 60 bytes.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>Yes</td>
<td>Integer</td>
<td>The public network bandwidth configuration. Available bandwidth specifications: 5, 10, 20, 50, and 100. Unit: Mbps</td>
</tr>
<tr>
<td>InstanceChargeType</td>
<td>No</td>
<td>String</td>
<td>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 InstanceChargePrepaid parameter must be entered.</td>
</tr>
<tr>
<td>InstanceChargePrepaid</td>
<td>No</td>
<td>InstanceChargePrepaid</td>
<td>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.</td>
</tr>
<tr>
<td>Zone</td>
<td>No</td>
<td>String</td>
<td>The availability zone, such as ap-guangzhou2.</td>
</tr>
<tr>
<td>Type</td>
<td>No</td>
<td>String</td>
<td>VPN gateway type. Value: CCN, indicates CCN-type VPN gateway</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpnGateway</td>
<td>VpnGateway</td>
<td>VPN gateway object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Create Pay-As-You-Go Gateway Input**
5. Developer Resources

API Explorer

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- API 3.0 Explorer

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.VpnConnCidrConflict</td>
<td>Destination IP address range conflicts with CIDR block of the current VPC tunnel.</td>
</tr>
<tr>
<td>InvalidVpcId.Malformed</td>
<td>Invalid VPC. The VPC instance ID is invalid.</td>
</tr>
<tr>
<td>InvalidVpcId.NotFound</td>
<td>Invalid VPC. The VPC resource does not exist.</td>
</tr>
</tbody>
</table>
DeleteCustomerGateway

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteCustomerGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CustomerGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the customer gateway, such as cgw-2wqq41m9. You can query the customer gateway by using the DescribeCustomerGateways API.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deleting a customer gateway

Input Example

https://vpc.tencentcloudapi.com/?Action=DeleteCustomerGateway
&Version=2017-03-12
&CustomerGatewayId=cgw-mgp33plll
&<Common request parameter>

Output Example

```json
{
  "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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (DeleteVpnConnection) is used to delete VPN tunnels.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteVpnConnection.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>VpnConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN tunnel instance, such as vpxn-4816u0z.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Deleting VPN tunnels**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=DeleteVpnConnection
&Version=2017-03-12
&VpnGatewayId=vpngw-44lmqanm
&VpnConnectionId=vpxn-5p07vkch8
&<Common Request Parameters>
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "7d88946e1b-5081-46d2-ae1e-d6u2c591c5b"
  }
}
```

5. Developer Resources
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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.
DeleteVpnGateway

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteVpnGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

5. Developer Resources

API Explorer

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Command Line Interface
6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpnGatewayId.Malformed</td>
<td>Invalid VPN gateway. The VPN instance ID is invalid.</td>
</tr>
<tr>
<td>InvalidVpnGatewayId.NotFound</td>
<td>Invalid VPN gateway. The VPN instance does not exist. Verify if you have entered the correct resource information.</td>
</tr>
</tbody>
</table>
DescribeVpcResourceDashboard

Last updated: 2020-05-15 11:11:56

1. API Description

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

This API is used to query the VPC resource information.

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

Note: This API supports Finance regions. If the common parameter Region is a finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeVpcResourceDashboard.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcIds.N</td>
<td>Yes</td>
<td>Array of String</td>
<td>Vpc instance ID, e.g. vpc-f1xjkw1b.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Querying the VPC resource information**

**Input Example**

```plaintext
&Version=2017-03-12
&VpcIds.0=vpc-0akboi5v
&<Common request parameters>
```

**Output Example**

```json
{
  "Response": {
    "ResourceDashboardSet": [
      {
        "VpcId": "vpc-0akboi5v",
        "SubnetId": ""
      }
    ]
  }
}
```
5. Developer Resources

**API Explorer**

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- **API 3.0 Explorer**

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**Command Line Interface**
6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeCustomerGatewayVendors

Last updated: 2020-05-15 11:11:58

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeCustomerGatewayVendors.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CustomerGatewayVendorSet</td>
<td>Array of CustomerGatewayVendor</td>
<td>Customer gateway vendor information object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Querying the information of supported customer gateway vendors**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=DescribeCustomerGatewayVendors
&Version=2017-03-12
&<Common request parameter>
```

**Output Example**

```json
{
  "Response": {
    "CustomerGatewayVendorSet": [
      {
        "Platform": "ios",
        "SoftwareVersion": "V15.4",
        "VendorName": "cisco"
      },
      {
        "Platform": "comware",
        "SoftwareVersion": "V1.0",
        "VendorName": "h3c"
      }
    ],
    "RequestId": "12345678901234567890123456789012345678901234567890"
  }
}
```
5. Developer Resources

**API Explorer**

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- Tencent Cloud SDK 3.0 for .NET

**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.
DescribeCustomerGateways

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeCustomerGateways.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CustomerGatewayIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>Customer gateway ID, such as cgw-2wqq41m9. Each request can have a maximum of 100 instances. CustomerGatewayIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>The filter condition. For details, see the Instance Filter Conditions Table. The upper limit for Filters in each request is 10 and 5 for Filter.Values. CustomerGatewayIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>The Offset. The default value is 0. For more information about Offset, see the relevant section in the API Introduction.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>Number of returned results. Default value: 20. Maximum value: 100.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CustomerGatewaySet</td>
<td>Array of CustomerGateway</td>
<td>Customer gateway object list</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>Number of eligible instances</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying customer gateways
5. Developer Resources

**API Explorer**
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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeVpnGatewayCcnRoutes


1. API Description

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

This API (DescribeVpnGatewayCcnRoutes) is used to query VPN gateway-based CCN routes.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeVpnGatewayCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>The returned quantity</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RouteSet</td>
<td>Array of VpngwCcnRoutes</td>
<td>The CCN route (IDC IP range) list.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>Number of objects that meet the condition.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Querying VPN gateway-based CCN routes**

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DescribeVpnGatewayCcnRoutes
&Version=2017-03-12
&VpnGatewayId=vpngw-12345678
&<Common request parameter>
```

**Output Example**

```
{
  "Response": {
```
5. Developer Resources

API Explorer

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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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (DescribeVpnConnections) is used to query the VPN tunnel list.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeVpnConnections.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnConnectionIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The instance ID of the VPN tunnel, such as vpnx-f49l6u0z. Each request can have a maximum of 100 instances. VpnConnectionIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. In each request, the upper limit for Filters is 10 and 5 for Filter.Values. VpnConnectionIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>The Offset. The default value is 0. For more information about Offset, see the relevant section in the API Introduction.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>Number of values to be returned. The default value is 20. Maximum is 100.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>VpnConnectionSet</td>
<td>Array of VpnConnection</td>
<td>VPN tunnel instance.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Querying the VPN tunnel list**

Input Example
Output Example

```
{
 "Response": {
  "RequestId": "74883e1b-5901-46de-a51e-d6e2cf591c5b",
  "TotalCount": 1,
  "VpnConnectionSet": [
    {
      "VpcId": "vpc-0a36u4wr",
      "VpnConnectionId": "vpnx-5p7vkch8",
      "VpnConnectionName": "testjoe",
      "VpnGatewayId": "vpngw-p4lmqawm",
      "CustomerGatewayId": "cgw-l4rblw63",
      "PreShareKey": "123456",
      "VpnProto": "IPSEC",
      "EncryptProto": "IKE",
      "RouteType": "STATIC",
      "IKEOptionsSpecification": {
        "PropoAuthenAlgorithm": "MD5",
        "PropoEncryAlgorithm": "3DES-CBC",
        "ExchangeMode": "MAIN",
        "LocalIdentity": "ADDRESS",
        "RemoteIdentity": "ADDRESS",
        "LocalAddress": "183.60.249.17",
        "RemoteAddress": "183.60.249.126",
        "LocalFqdnName": "",
        "RemoteFqdnName": "",
        "DhGroupName": "GROUP1",
        "IKEOptionsSpecification": {
          "EncryptAlgorithm": "3DES-CBC",
          "IntegrityAlgorithm": "MD5",
          "EncapMode": "TUNNEL",
          "SecurityProto": "ESP",
          "PfsDhGroup": "NULL",
          "IPSECSaLifetimeSeconds": "3600",
          "IPSECSaLifetimeTraffic": "1843200"
        },
        "CreatedTime": "2017-08-05T10:27:32",
        "State": "AVAILABLE",
        "NetStatus": "UNAVAILABLE",
        "SecurityPolicyDatabaseSet": [
          {
            "LocalCidrBlock": "172.16.0.0/16",
            "RemoteCidrBlock": ["10.10.0.0/16"
          ]
        }
      }
    }
  ]
},
"IPSECOptionsSpecification": {
  "EncryptAlgorithm": "3DES-CBC",
  "IntegrityAlgorithm": "MD5",
  "EncapMode": "TUNNEL",
  "SecurityProto": "ESP",
  "PfsDhGroup": "NULL",
  "IPSECSaLifetimeSeconds": "3000",
  "IPSECSaLifetimeTraffic": "1843200"
},
"CreatedTime": "2017-08-05T10:27:32",
"State": "AVAILABLE",
"NetStatus": "UNAVAILABLE",
"SecurityPolicyDatabaseSet": [
  {
    "LocalCidrBlock": "172.16.0.0/16",
    "RemoteCidrBlock": ["10.10.0.0/16"
  ]
}
]
}
```

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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DescribeVpnGateways

Last updated: 2020-04-09 18:51:52

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 100 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeVpnGateways.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>The VPN gateway instance ID, such as vpngw-f49l6u0z. Each request can have a maximum of 100 instances. VpnGatewayIds and Filters cannot be specified at the same time.</td>
</tr>
</tbody>
</table>
| Filters.N        | No       | Array of FilterObject | Filter condition. VpnGatewayIds and Filters cannot be specified at the same time.  
|                  |          |            | - vpc-id - String - (Filter condition) VPC instance ID, such as vpc-f49l6u0z.  
|                  |          |            | - vpn-gateway-id - String - (Filter condition) VPN instance ID, such as vpngw-saluhh9t.  
|                  |          |            | - vpn-gateway-name - String - (Filter condition) VPN instance name.         
|                  |          |            | - type - String - (Filter condition) VPN gateway type: 'IPSEC', 'SSL'.     
|                  |          |            | - public-ip-address - String - (Filter condition) Public IP.               
|                  |          |            | - zone - String - (Filter condition) The availability zone where the VPN is located, such as ap-guangzhou-2. |
| Offset           | No       | Integer    | Offset                                                                     |
| Limit            | No       | Integer    | The number of request objects.                                             |

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>VpnGatewaySet</td>
<td>Array of VpnGateway</td>
<td>The list of details of VPN gateway instances.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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=ap-guangzhou-2
&Filters.0.Values=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"
          }
        ]
      },
      {
        "VpcId": "vpc-5rkcp0wb",
        "VpnGatewayId": "vpngw-97yhzme3",
        "VpnGatewayName": "leohli-simulate3",
        "Type": "IPSEC",
        "State": "AVAILABLE",
        "PublicIpAddress": "",
```

```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpnGatewayId.Malformed</td>
<td>Invalid VPN gateway. The VPN instance ID is invalid.</td>
</tr>
<tr>
<td>InvalidVpnGatewayId.NotFound</td>
<td>Invalid VPN gateway. The VPN instance does not exist. Verify if you have entered the correct resource information.</td>
</tr>
</tbody>
</table>
DownloadCustomerGatewayConfiguration

1. API Description

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

This API (DownloadCustomerGatewayConfiguration) is used to download a VPN tunnel configuration.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DownloadCustomerGatewayConfiguration.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>VpnConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN tunnel instance, such as vpnx-f4916u87.</td>
</tr>
<tr>
<td>CustomerGatewayVendor</td>
<td>Yes</td>
<td>CustomerGatewayVendor</td>
<td>Customer gateway vendor information object, which can be obtained through DescribeCustomerGatewayVendors.</td>
</tr>
<tr>
<td>InterfaceName</td>
<td>Yes</td>
<td>String</td>
<td>Name of the physical API for tunnel access device.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CustomerGatewayConfiguration</td>
<td>String</td>
<td>Configuration information in XML format.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Downloading a VPN tunnel configuration

Input Example

```xml
https://vpc.tencentcloudapi.com/?Action=DownloadCustomerGatewayConfiguration
&Version=2017-03-12
&VpnGatewayId=vpn-p4lqawn
&VpnConnectionId=vpnx-f4916u87
&CustomerGatewayVendor.Platform=comware
&CustomerGatewayVendor.SoftwareVersion=V1.0
&CustomerGatewayVendor.VendorName=H3C
&InterfaceName=eth0
&<Common Request Parameters>
```

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Output Example

```json
{
  "Response": {
    "CustomerGatewayConfiguration": "A 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

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- Tencent Cloud SDK 3.0 for .NET

**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.
InquiryPriceCreateVpnGateway

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: InquiryPriceCreateVpnGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>Yes</td>
<td>Integer</td>
<td>The public network bandwidth configuration. Available bandwidth specifications: 5, 10, 20, 50, and 100. Unit: Mbps.</td>
</tr>
<tr>
<td>InstanceChargeType</td>
<td>No</td>
<td>String</td>
<td>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 InstanceChargePrepaid parameter must be entered.</td>
</tr>
<tr>
<td>InstanceChargePrepaid</td>
<td>No</td>
<td>InstanceChargePrepaid</td>
<td>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.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>Price</td>
<td>Product price.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Querying monthly subscription prices**

**Input Example**

https://vpc.tencentcloudapi.com/?Action=InquiryPriceCreateVpnGateway &Version=2017-03-12 &InstanceChargeType=PREPAID &InstanceChargePrepaid.Period=1
Output Example

```json
{
  "Response": {
    "Price": {
    "InstancePrice": {
    "OriginalPrice": 380,
    "DiscountPrice": 380
    },
    "RequestId": "1b2534de-3f38-4913-921a-af5ff1a9cb73"
    },
    "RequestId": "1b2534de-3f38-4913-921a-af5ff1a9cb73"
  }
}
```

Example2 Querying pay-as-you-go prices

Input Example

```text
https://vpc.tencentcloudapi.com/?Action=InquiryPriceCreateVpnGateway
&Version=2017-03-12
&InstanceChargeType=POSTPAID_BY_HOUR
&InternetMaxBandwidthOut=5
&<Common Request Parameters>
```

Output Example

```json
{
  "Response": {
    "Price": {
    "UnitPrice": 0.48,
    "ChargeUnit": "HOUR"
    },
    "BandwidthPrice": {
    "UnitPrice": 0.8,
    "ChargeUnit": "GB"
    },
    "RequestId": "e87327cd-f8fa-4340-9959-5bebe8f11f6b"
  }
}
```

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
</tbody>
</table>
InquiryPriceRenewVpnGateway


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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: InquiryPriceRenewVpnGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>InstanceChargePrepaid</td>
<td>Yes</td>
<td>InstanceChargePrepaid</td>
<td>Specifies the purchased validity period, whether to enable auto-renewal. This parameter is required for monthly-subscription instances.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>Price</td>
<td>Product price.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the price for renewing a monthly subscription gateway

Input Example

```
&Version=2017-03-12
&VpnGatewayId=vpngw-lazly92z
&InstanceChargePrepaid.Period=2
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "OriginalPrice": 760.0,
```
5. Developer Resources

API Explorer
This tool allows online call, signature authentication, SDK code generation and quick search of APIs to greatly improve the efficiency of using TencentCloud APIs.

- API 3.0 Explorer

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

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: InquiryPriceResetVpnGatewayInternetMaxBandwidth.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>Yes</td>
<td>Integer</td>
<td>The public network bandwidth configuration. Available bandwidth specifications: 5, 10, 20, 50, and 100. Unit: Mbps.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>Price</td>
<td>Product price.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the price for adjusting the bandwidth cap of a VPN gateway

Input Example

```plaintext
https://vpc.tencentcloudapi.com/?Action=InquiryPriceResetVpnGatewayInternetMaxBandwidth
&Version=2017-03-12
&VpnGatewayId=vpngw-lazly92z
&InternetMaxBandwidthOut=10
&<Common request parameter>
```

Output Example

```json
{
  "Response": {
    "Price": {
      "InstancePrice": 460.27,
      "OriginalPrice": 460.27,
    }
  }
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyCustomerGatewayAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>CustomerGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the customer gateway, such as cgw-2wqq41m9. You can query the customer gateway by using the DescribeCustomerGateways API.</td>
</tr>
<tr>
<td>CustomerGatewayName</td>
<td>Yes</td>
<td>String</td>
<td>Customer gateway can be named freely, but the maximum length is 60 characters.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example 1 Modifying a customer gateway**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=ModifyCustomerGatewayAttribute
&Version=2017-03-12
&CustomerGatewayId=cgw-mgp33p1l
&CustomerGatewayName=NewName
&<Common request parameter>
```

**Output Example**

```json
{
    "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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyVpnConnectionAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN tunnel instance, such as <code>vpnx-f49l6u0z</code>.</td>
</tr>
<tr>
<td>VpnConnectionName</td>
<td>No</td>
<td>String</td>
<td>VPN tunnel can be named freely, but the maximum length is 60 characters.</td>
</tr>
<tr>
<td>PreShareKey</td>
<td>No</td>
<td>String</td>
<td>The pre-shared key.</td>
</tr>
<tr>
<td>SecurityPolicyDatabases.N</td>
<td>No</td>
<td>Array of SecurityPolicyDatabase</td>
<td>The SPD policy group, for example: <code>{&quot;10.0.0.5/24&quot;:&quot;172.123.10.5/16&quot;}</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.</td>
</tr>
<tr>
<td>IKEOptionsSpecification</td>
<td>No</td>
<td>IKEOptionsSpecification</td>
<td>IKE (Internet Key Exchange) configuration. IKE comes with a self-protection mechanism. The network security protocol is configured by the user.</td>
</tr>
<tr>
<td>IPSecOptionsSpecification</td>
<td>No</td>
<td>IPSecOptionsSpecification</td>
<td>IPSec configuration. The IPsec secure session configuration is provided by Tencent Cloud.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

5. Developer Resources

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- API 3.0 Explorer

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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](#).
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyVpnGatewayAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>VpnGatewayName</td>
<td>No</td>
<td>String</td>
<td>The VPN gateway name. The maximum length is 60 bytes.</td>
</tr>
<tr>
<td>InstanceChargeType</td>
<td>No</td>
<td>String</td>
<td>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 support POSTPAID_BY_HOUR.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Modifying VPN gateway attributes**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=ModifyVpnGatewayAttribute
&Version=2017-03-12
&VpnGatewayId=vpngw-9jj97wyn
&VpnGatewayName=new_name
&<Common Request Parameters>
```

**Output Example**

```json
{
  "Response": {
    "RequestId": "7f883e1b-5901-46de-ae1e-d6e2c591c5b"
  }
}
```
5. Developer Resources

API Explorer
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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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

This API (ModifyVpnGatewayCcnRoutes) is used to modify VPN gateway-based CCN routes.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifyVpnGatewayCcnRoutes.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>Routes.N</td>
<td>Yes</td>
<td>Array of VpngwCcnRoutes</td>
<td>The CCN route (IDC IP range) list.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modifying VPN gateway-based CCN routes

Input Example

```html
https://vpc.tencentcloudapi.com/?Action=ModifyVpnGatewayCcnRoutes
&<Common request parameter>
&VpnGatewayId=vpngw-qq17b1x
&Routes.0.RouteId=xxx-xxxxxxxx
&Routes.0.DestinationCidrBlock=10.2.2.0/24
&Routes.0.Status=ENABLE
&Routes.1.RouteId=xxx-xxxxxxxx
&Routes.1.DestinationCidrBlock=10.2.3.0/24
&Routes.1.Status=DISABLE
```

Output Example

```json
{
  "Response": {
    "RequestId": "6e446c86-d8c9-4981-9b33-d18956585858"
  }
}
```
5. Developer Resources

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Command Line Interface

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6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>ResourceNotFoundException</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
RenewVpnGateway

Last updated : 2020-05-15 11:11:50

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: RenewVpnGateway.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>InstanceChargePrepaid</td>
<td>Yes</td>
<td>InstanceChargePrepaid</td>
<td>Billing Methods</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

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 parameter>
```

Output Example

```
{
  "RequestId": "74883e1b-5901-46de-se1e-d9e2f591c5b"
}
```
5. Developer Resources

**API Explorer**
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- API 3.0 Explorer

**SDK**
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- Tencent Cloud SDK 3.0 for .NET

**Command Line Interface**

- Tencent Cloud CLI 3.0

6. Error Code

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
1. API Description

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

The API (ResetVpnConnection) is used to reset VPN tunnels.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ResetVpnConnection.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>VpnConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN tunnel instance, such as vpnx-f49l6u0z.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Resetting a VPN tunnel**

**Input Example**

https://vpc.tencentcloudapi.com/?Action=ResetVpnConnection
&Version=2017-03-12
&VpnGatewayId=vpngw-p4lmqawn
&VpnConnectionId=vpnx-5p7vkch8
&<Common Request Parameters>

**Output Example**

```json
{
  "Response": {
    "RequestId": "74885e1b-5001-46de-ae1e-d6e2f091c5b"
  }
}
```

5. Developer Resources
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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.
ResetVpnGatewayInternetMaxBandwidth

1. API Description

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

This API (ResetVpnGatewayInternetMaxBandwidth) is used to adjust the bandwidth cap of VPN gateways. Currently, only configuration upgrade is supported. VPN gateways with monthly subscription must be within the validity period.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ResetVpnGatewayInternetMaxBandwidth.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>Yes</td>
<td>Integer</td>
<td>The public network bandwidth configuration. Available bandwidth specifications: 5, 10, 20, 50, and 100. Unit: Mbps.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Adjusting the bandwidth cap of a VPN gateway

Input Example

```plaintext
https://vpc.tencentcloudapi.com/?Action=ResetVpnGatewayInternetMaxBandwidth
&Version=2017-03-12
&VpnGatewayId=vpngw-lazly92z
&InternetMaxBandwidthOut=10
&<Common Request Parameters>
```

Output Example

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
Subnet APIs
CreateSubnet

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateSubnet.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>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.</td>
</tr>
<tr>
<td>SubnetName</td>
<td>Yes</td>
<td>String</td>
<td>The subnet name. The maximum length is 60 bytes.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>Yes</td>
<td>String</td>
<td>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.</td>
</tr>
<tr>
<td>Zone</td>
<td>Yes</td>
<td>String</td>
<td>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.</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>Bound tags, such as [{&quot;Key&quot;: &quot;city&quot;, &quot;Value&quot;: &quot;shanghai&quot;}].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subnet</td>
<td>Subnet</td>
<td>Subnet object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>
4. Example

Example1 Creating a subnet

Input Example

```
https://vpc.tencentcloudapi.com/?Action=CreateSubnet
&Version=2017-03-12
&VpcId=vpc-m3ul053f
&SubnetName=TestSubnet
&CidrBlock=10.8.0.0/16
&Zone=ap-guangzhou-1
&Tags.0.Key=city
&Tags.0.Value=shanghai
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestID": "354f4ac3-8546-4516-8c8a-69e3ab73aa8a",
    "Subnet": {
      "VpcId": "vpc-m3ul053f",
      "IsDefault": false,
      "SubnetName": "TestSubnet",
      "Zone": "ap-guangzhou-1",
      "SubnetId": "subnet-2qhl25io",
      "CidrBlock": "10.8.255.0/24",
      "TotalIpAddressCount": 253,
      "AvailableIpAddressCount": 253,
      "TagSet": [
        { "Key": "city", "Value": "shanghai" }
      ]
    }
  }
}
```

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](#).

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetConflict</td>
<td>Subnet CIDR conflict.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetRange</td>
<td>Invalid subnet CIDR.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
DeleteSubnet

Last updated: 2020-03-06 20:26:25

1. API Description

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

This API (DeleteSubnet) is used to delete subnets. Before deleting a subnet, you need to remove all resources in the subnet, including CVMs, load balancers, cloud data, NoSQL databases, and ENIs.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DeleteSubnet.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the subnet instance. You can obtain the parameter value from the SubnetId field in the returned result of DescribeSubnets API.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Deleting a subnet

Input Example

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

Output Example

```json
{
  "Response": {
    "RequestId": "354f4ac3-8546-4516-8c8a-69a3ab73aa8a"
  }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceInUse</td>
<td>The resource is occupied.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>

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DescribeSubnets
Last updated: 2020-05-15 11:12:09

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeSubnets.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SubnetIds.N</td>
<td>No</td>
<td>Array of String</td>
<td>Queries the ID of the subnet instance, such as subnet-pxir56ns. Each request can have a maximum of 100 instances. SubnetIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Filters.N</td>
<td>No</td>
<td>Array of Filter</td>
<td>Filter condition. SubnetIds and Filters cannot be specified at the same time.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>String</td>
<td>Offset. Default value: 0.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of instances meeting the filter condition.</td>
</tr>
<tr>
<td>SubnetSet</td>
<td>Array of Subnet</td>
<td>Subnet object.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Querying the subnet list
Input Example

```xml
https://vpc.tencentcloudapi.com/?Action=DescribeSubnets
&Version=2017-03-12
&Filters.0.Name=subnet-name
&Filters.0.Values.0=Default Guangzhou Zone 2 subnet
&Filters.1.Name=vpc-id
&Filters.1.Values.0=vpc-2at5y1pn
&Filters.2.Name=subnet-id
&Filters.2.Values.0=subnet-otu92seu
&Filters.3.Name=cidr-block
&Filters.3.Values.0=172.16.16.0
&Filters.4.Name=is-default
&Filters.4.Values.0=true
&<Common request parameters>
```

Output Example

```json
{
   "Response": {
      "SubnetSet": [
         {
            "VpcId": "vpc-2at5y1pn",
            "SubnetId": "subnet-otu92seu",
            "SubnetName": "Default Guangzhou Zone 2 subnet",
            "CidrBlock": "172.16.16.0/20",
            "Ipv6CidrBlock": "3402:4e00:20:1201::/64",
            "IsDefault": true,
            "IsRemoteVpcSnat": false,
            "EnableBroadcast": false,
            "Zone": "ap-guangzhou-dev-2",
            "RouteTableId": "rtb-l2h8d7c2",
            "TotalIpAddressCount": 4093,
            "AvailableIpAddressCount": 4002,
            "CreatedTime": "2017-04-20 11:30:48"
         }
      ],
      "TotalCount": 1,
      "RequestId": "29569756-56ba-4a13-b545-e1528d5cb239"
   }
}
```

Example2 Querying the list of subnets bound to tags

Input Example

```xml
https://vpc.tencentcloudapi.com/?Action=DescribeSubnets
&Version=2017-03-12
&Filters.0.Name=tag:city
&Filters.0.Values.0=shanghai
&<Common request parameters>
```

Output Example

```json
{
   "Response": {
      "SubnetSet": [
         {
            "VpcId": "vpc-2at5y1pn",
            "SubnetId": "subnet-otu92seu",
            "SubnetName": "Default Guangzhou Zone 2 subnet",
            "CidrBlock": "172.16.16.0/20",
            "Ipv6CidrBlock": "3402:4e00:20:1201::/64",
            "IsDefault": true,
            "IsRemoteVpcSnat": false,
            "EnableBroadcast": false,
            "Zone": "ap-guangzhou-dev-2",
            "RouteTableId": "rtb-l2h8d7c2",
            "TotalIpAddressCount": 4093,
         }
      ],
      "TotalCount": 1,
      "RequestId": "29569756-56ba-4a13-b545-e1528d5cb239"
   }
}
```
"AvailableIpAddressCount": 4002,
"TagSet": [
  {
    "Key": "city",
    "Value": "shanghai"
  },
  {
    "CreatedTime": "2017-04-20 11:30:48"
  }
],
"TotalCount": 1,
"RequestId": "29569756-56ba-4a13-b545-e1528d5cb239"
}

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
ModifySubnetAttribute

Last updated : 2020-03-06 20:26:23

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: ModifySubnetAttribute.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>Yes</td>
<td>String</td>
<td>Subnet instance ID, such as subnet-pxir56ns .</td>
</tr>
<tr>
<td>SubnetName</td>
<td>No</td>
<td>String</td>
<td>The subnet name. The maximum length is 60 bytes.</td>
</tr>
<tr>
<td>EnableBroadcast</td>
<td>No</td>
<td>String</td>
<td>Whether the subnet has broadcast enabled.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Modifying subnet attributes

Input Example

https://vpc.tencentcloudapi.com/?Action=ModifySubnetAttribute
&Version=2017-03-12
&SubnetId=subnet-test1234
&SubnetName=NewSubnetName
&EnableBroadcast=true
&<Common request parameters>

Output Example

```json
{
  "Response": {
    "RequestId": "20569756-56ba-4a13-b545-a1528d5cb239"
  }
}
```
5. Developer Resources

API Explorer
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- API 3.0 Explorer

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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

Command Line Interface
- Tencent Cloud CLI 3.0

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

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
UnassignIpv6SubnetCidrBlock

Last updated: 2020-03-05 23:06:22

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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: UnassignIpv6SubnetCidrBlock.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC where the subnet is located, such as vpc-f49l6u0z.</td>
</tr>
<tr>
<td>Ipv6SubnetCidrBlocks.N</td>
<td>Yes</td>
<td>Array of Ipv6SubnetCidrBlock</td>
<td>The IPv6 subnet IP range list.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Release IPv6 subnet IP ranges

Input Example

```
https://vpc.tencentcloudapi.com/?Action=UnassignIpv6SubnetCidrBlock
&VpcId=vpc-rkx683gh
&Ipv6SubnetCidrBlocks.0.SubnetId=subnet-ewhv1w98
&Ipv6SubnetCidrBlocks.0.SubnetId=subnet-3wlfh4za
&<common request parameters>
```

Output Example

```
{  
  "Response": {  
    "RequestId": "75221557-b667-448a-8cfe-ccd1bde2a234"  
  }  
}
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>ResourceInUse</td>
<td>The resource is occupied.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: CreateSubnets.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC instance, such as vpc-6v2ht8q5.</td>
</tr>
<tr>
<td>Subnets.N</td>
<td>Yes</td>
<td>Array of SubnetInput</td>
<td>The subnet object list.</td>
</tr>
<tr>
<td>Tags.N</td>
<td>No</td>
<td>Array of Tag</td>
<td>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: [{&quot;Key&quot;: &quot;city&quot;, &quot;Value&quot;: &quot;shanghai&quot;}].</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubnetSet</td>
<td>Array of Subnet</td>
<td>The list of newly created subnets.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

Example1 Creates subnets in batches

Input Example
Output Example

```json
{
  "Response": {
    "SubnetSet": [
      {
        "VpcId": "vpc-6v2ht8q5",
        "SubnetId": "subnet-bxxo9gik",
        "SubnetName": "t1",
        "CidrBlock": "10.4.14.0/24",
        "IsDefault": false,
        "EnableBroadcast": false,
        "Zone": "ap-guangzhou-2",
        "RouteTableId": "rtb-3ryrwzuu",
        "CreatedTime": "2018-11-29 19:16:45",
        "TotalIpAddressCount": 253,
        "AvailableIpAddressCount": 253,
        "TagSet": [
          {
            "Key": "city",
            "Value": "shanghai"
          }
        ]
      },
      {
        "VpcId": "vpc-6v2ht8q5",
        "SubnetId": "subnet-f84xsjpa",
        "SubnetName": "t2",
        "CidrBlock": "10.4.15.0/24",
        "IsDefault": false,
        "EnableBroadcast": false,
        "Zone": "ap-guangzhou-3",
        "RouteTableId": "rtb-3ryrwzuu",
        "CreatedTime": "2018-11-29 19:16:45",
        "TotalIpAddressCount": 253,
        "AvailableIpAddressCount": 253,
        "TagSet": [
          {
            "Key": "city",
            "Value": "shanghai"
          }
        ]
      }
    ],
    "RequestId": "158ac65e-d504-42f6-baac-b716f5855254"
  }
}
```

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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameter</td>
<td>Invalid input parameter.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetConflict</td>
<td>Subnet CIDR conflict.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetRange</td>
<td>Invalid subnet CIDR.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit is reached.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: AssignIpv6SubnetCidrBlock.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>VpcId</td>
<td>Yes</td>
<td>String</td>
<td>The ID of the VPC where the subnet is located, such as vpc-f4916a00.</td>
</tr>
<tr>
<td>Ipv6SubnetCidrBlocks.N</td>
<td>Yes</td>
<td>Array of Ipv6SubnetCidrBlock</td>
<td>The assigned IPv6 subnet IP range list.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ipv6SubnetCidrBlockSet</td>
<td>Array of Ipv6SubnetCidrBlock</td>
<td>The assigned IPv6 subnet IP range list.</td>
</tr>
<tr>
<td>RequestId</td>
<td>String</td>
<td>The unique request ID, which is returned for each request. RequestId is required for locating a problem.</td>
</tr>
</tbody>
</table>

4. Example

**Example1 Assign IPv6 subnet IP ranges**

**Input Example**

```plaintext
https://vpc.tencentcloudapi.com/?Action=AssignIpv6SubnetCidrBlock
&VpcId=vpc-rks53gh
&Ipv6SubnetCidrBlocks.0.SubnetId=subnet-ewhv1m9e
&Ipv6SubnetCidrBlocks.0.Ipv6CidrBlock=3402:4e00:20:1201::/64
&Ipv6SubnetCidrBlocks.0.SubnetId=subnet-3a5hzb0
```
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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetConflict</td>
<td>Subnet CIDR conflict.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetRange</td>
<td>Invalid subnet CIDR.</td>
</tr>
<tr>
<td>LimitExceeded.SubnetCidrBlock</td>
<td>The number of subnet IP ranges assigned in the subnet has reached the upper limit.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>Parameter missing. A required parameter is missing in the request.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
</tbody>
</table>
Other APIs

DescribeGatewayFlowMonitorDetail

Last updated: 2020-03-06 20:26:41

1. API Description

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

This API (DescribeGatewayFlowMonitorDetail) is used to query the monitoring details of the gateway traffic.

- Only querying of a single gateway instance is supported. That is, only one of the VpnId , DirectConnectGatewayId , PeeringConnectionId , or NatId input parameters is supported, and one must be used.
- 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.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: vpc.ap-shanghai-fsi.tencentcloudapi.com

2. Input Parameters

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

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: DescribeGatewayFlowMonitorDetail.</td>
</tr>
<tr>
<td>Version</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. The value used for this API: 2017-03-12.</td>
</tr>
<tr>
<td>Region</td>
<td>Yes</td>
<td>String</td>
<td>Common parameter. For more information, please see the list of regions supported by the product.</td>
</tr>
<tr>
<td>TimePoint</td>
<td>Yes</td>
<td>Timestamp</td>
<td>The point in time. This indicates details of this minute will be queried. For example, in 2019-02-28 18:15:20, details at 18:15 will be queried.</td>
</tr>
<tr>
<td>VpnId</td>
<td>No</td>
<td>String</td>
<td>The instance ID of the VPN gateway, such as vpn-ltjahce6.</td>
</tr>
<tr>
<td>DirectConnectGatewayId</td>
<td>No</td>
<td>String</td>
<td>The instance ID of the Direct Connect gateway, such as dcg-ltjahce6.</td>
</tr>
<tr>
<td>PeeringConnectionId</td>
<td>No</td>
<td>String</td>
<td>The instance ID of the peering connection, such as pcx-ltjahce6.</td>
</tr>
<tr>
<td>NatId</td>
<td>No</td>
<td>String</td>
<td>The instance ID of the NAT gateway, such as nat-ltjahce6.</td>
</tr>
<tr>
<td>Offset</td>
<td>No</td>
<td>Integer</td>
<td>Offset.</td>
</tr>
<tr>
<td>Limit</td>
<td>No</td>
<td>Integer</td>
<td>The returned quantity.</td>
</tr>
<tr>
<td>OrderField</td>
<td>No</td>
<td>String</td>
<td>The order field supports InPkg, OutPkg, InTraffic, and OutTraffic</td>
</tr>
<tr>
<td>OrderDirection</td>
<td>No</td>
<td>String</td>
<td>Order methods. Ascending: ASC, Descending: DESC.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>The number of objects meeting the condition.</td>
</tr>
<tr>
<td>GatewayFlowMonitorDetailSet</td>
<td>Array of GatewayFlowMonitorDetail</td>
<td>The gateway traffic monitoring details.</td>
</tr>
</tbody>
</table>
### Parameter Name | Type | Description
--- | --- | ---
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

**Input Example**

```
https://vpc.tencentcloudapi.com/?Action=DescribeGatewayFlowMonitorDetail
&TimePoint=2019-02-28 18:15:20
&NatId=nat-lz6rjk7n
&Limit=5
&OrderField=OutTraffic
&OrderDirection=DESC
&<Common Request Parameters>
```

**Output Example**

```json
{
    "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

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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.
# Data Types

Last updated: 2020-05-15 11:12:37

## AccountAttribute

Account attribute object

Used by actions: DescribeAccountAttributes.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AttributeName</td>
<td>String</td>
<td>Attribute name</td>
</tr>
<tr>
<td>AttributeValues</td>
<td>Array of String</td>
<td>Attribute values</td>
</tr>
</tbody>
</table>

## Address

Detailed EIP information

Used by actions: DescribeAddresses.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressId</td>
<td>String</td>
<td>EIP ID, the unique ID of the EIP.</td>
</tr>
<tr>
<td>AddressName</td>
<td>String</td>
<td>The EIP name.</td>
</tr>
<tr>
<td>AddressStatus</td>
<td>String</td>
<td>Possible EIP states are 'CREATING', 'BINDING', 'BIND', 'UNBINDING', 'UNBIND', 'OFFLINING', and 'BIND_ENI'.</td>
</tr>
<tr>
<td>AddressIp</td>
<td>String</td>
<td>The public IP address</td>
</tr>
<tr>
<td>InstanceId</td>
<td>String</td>
<td>The ID of the bound resource instance. This can be a CVM or NAT.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>Timestamp</td>
<td>The creation time, which follows the ISO8601 standard and uses UTC time in the format of YYYY-MM-DDThh:mm:ssZ.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>String</td>
<td>The ID of the bound ENI</td>
</tr>
<tr>
<td>PrivateIpAddress</td>
<td>String</td>
<td>The private IP of the bound resources</td>
</tr>
<tr>
<td>IsArrears</td>
<td>Boolean</td>
<td>The isolation status of the resource. True indicates the EIP is isolated. False indicates that the resource is not isolated.</td>
</tr>
<tr>
<td>IsBlocked</td>
<td>Boolean</td>
<td>The block status of the resource. True indicates the EIP is blocked. False indicates that the EIP is not blocked.</td>
</tr>
<tr>
<td>IsEipDirectConnection</td>
<td>Boolean</td>
<td>Whether the EIP supports direct connection mode. True indicates the EIP supports direct connection. False indicates that the resource does not support direct connection.</td>
</tr>
<tr>
<td>AddressType</td>
<td>String</td>
<td>The resource type of the EIP. This includes CalcIP, WanIP, EIP, and AnycastEIP. Among these, CalcIP indicates the device IP, WanIP indicates the common public IP, EIP indicates Elastic IP, and AnycastEIP indicates accelerated EIP.</td>
</tr>
<tr>
<td>CascadeRelease</td>
<td>Boolean</td>
<td>Whether the EIP is automatically released after being unbound. True indicates the EIP will be automatically released after being unbound. False indicates the EIP will not be automatically released after being unbound.</td>
</tr>
<tr>
<td>EipAlgType</td>
<td>AlgType</td>
<td>Type of the protocol used in EIP ALG</td>
</tr>
<tr>
<td>InternetServiceProvider</td>
<td>String</td>
<td>The ISP of an EIP/Elastic IP, with possible return values currently including &quot;CMCC&quot;, &quot;CTCC&quot;, &quot;CUCC&quot; and &quot;BGP&quot;</td>
</tr>
</tbody>
</table>

## AddressChargePrepaid
EIP cost object
Used by actions: ModifyAddressInternetChargeType.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period</td>
<td>Integer</td>
<td>Yes</td>
<td>Purchase duration of instance</td>
</tr>
<tr>
<td>RenewFlag</td>
<td>String</td>
<td>No</td>
<td>Whether auto-renewal is enabled</td>
</tr>
</tbody>
</table>

AddressTemplate
IP address template
Used by actions: CreateAddressTemplate, DescribeAddressTemplates.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressTemplateName</td>
<td>String</td>
<td>IP address template name.</td>
</tr>
<tr>
<td>AddressTemplateId</td>
<td>String</td>
<td>The unique ID of the IP address template instance.</td>
</tr>
<tr>
<td>AddressSet</td>
<td>Array of String</td>
<td>IP address information.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>Creation Time.</td>
</tr>
</tbody>
</table>

AddressTemplateGroup
IP address template group
Used by actions: CreateAddressTemplateGroup, DescribeAddressTemplateGroups.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressTemplateGroupName</td>
<td>String</td>
<td>IP address template group name.</td>
</tr>
<tr>
<td>AddressTemplateGroupId</td>
<td>String</td>
<td>IP address template group instance ID, such as ipmg-dih8xd8q.</td>
</tr>
<tr>
<td>AddressTemplateIdSet</td>
<td>Array of String</td>
<td>IP address template ID.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>Creation Time.</td>
</tr>
</tbody>
</table>
| AddressTemplateSet  | Array of AddressTemplateItem | IP address template instance |}

AddressTemplateItem
Address information
Used by actions: CreateAddressTemplateGroup, DescribeAddressTemplateGroups.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>String</td>
<td>Yes</td>
<td>Start address</td>
</tr>
<tr>
<td>To</td>
<td>String</td>
<td>Yes</td>
<td>End address</td>
</tr>
</tbody>
</table>

AddressTemplateSpecification
IP address template.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
</table>
### Name | Type | Description
--- | --- | ---
AddressId | String | The ID of the IP address, such as ipm-2uw6ujo6.
AddressGroupId | String | The ID of the IP address group, such as ipmg-2uw6ujo6.

### AlgType

ALG protocol type

Used by actions: DescribeAddresses.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ftp</td>
<td>Boolean</td>
<td>Whether FTP ALG is enabled</td>
</tr>
<tr>
<td>Sip</td>
<td>Boolean</td>
<td>Whether SIP ALG is enabled</td>
</tr>
</tbody>
</table>

### AssistantCidr

Information about the secondary CIDR of the VPC.

Used by actions: CreateAssistantCidr, CreateVpc, DescribeAssistantCidr, DescribeVpcs, ModifyAssistantCidr.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>The ID of a VPC instance, such as vpc-6v2ht8q5.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>String</td>
<td>The secondary CIDR, such as 172.16.0.0/16.</td>
</tr>
<tr>
<td>AssistantType</td>
<td>Integer</td>
<td>The secondary CIDR block type. 0: common secondary CIDR block. 1: container secondary CIDR block. Default: 0.</td>
</tr>
<tr>
<td>SubnetSet</td>
<td>Array of Subnet</td>
<td>Subnets divided by the secondary CIDR. Note: This field may return null, indicating that no valid values can be obtained.</td>
</tr>
</tbody>
</table>

### CCN

The CCN object

Used by actions: CreateCcn, DescribeCcns.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CcnId</td>
<td>String</td>
<td>The unique ID of the CCN</td>
</tr>
<tr>
<td>CcnName</td>
<td>String</td>
<td>The name of the CCN</td>
</tr>
<tr>
<td>CcnDescription</td>
<td>String</td>
<td>The detailed information of the CCN</td>
</tr>
<tr>
<td>InstanceCount</td>
<td>Integer</td>
<td>The number of associated instances</td>
</tr>
<tr>
<td>CreateTime</td>
<td>Timestamp</td>
<td>The creation time</td>
</tr>
<tr>
<td>State</td>
<td>String</td>
<td>The instance status. 'ISOLATED': Being isolated (instance is in arrears and service is suspended). 'AVAILABLE': Operating.</td>
</tr>
<tr>
<td>QosLevel</td>
<td>String</td>
<td>The instance service quality. 'PT': Platinum , 'AU': Gold, 'AG': Silver.</td>
</tr>
<tr>
<td>InstanceChargeType</td>
<td>String</td>
<td>The billing method. POSTPAID indicates postpaid. Note: This field may return null, indicating that no valid values can be obtained.</td>
</tr>
<tr>
<td>BandwidthLimitType</td>
<td>String</td>
<td>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.</td>
</tr>
</tbody>
</table>
**TagSet**

- **Type**: Array of `Tag`
- **Description**: Tag key-value pairs.

---

**CcnAttachedInstance**

The instance object associated with a CCN

Used by actions: DescribeCcnAttachedInstances.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CcnId</td>
<td>String</td>
<td>The ID of a CCN instance.</td>
</tr>
<tr>
<td>InstanceType</td>
<td>String</td>
<td>The type of associated instances:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- VPC : VPC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- DIRECTCONNECT : Direct Connect</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- BMVPC : BM VPC</td>
</tr>
<tr>
<td>InstanceId</td>
<td>String</td>
<td>The ID of the associated instance.</td>
</tr>
<tr>
<td>InstanceName</td>
<td>String</td>
<td>The name of the associated instance.</td>
</tr>
<tr>
<td>InstanceRegion</td>
<td>String</td>
<td>The region to which the associated instance ID belongs, such as <code>ap-guangzhou</code>.</td>
</tr>
<tr>
<td>InstanceUin</td>
<td>String</td>
<td>The UIN (root account) to which the associated instance belongs.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>Array of String</td>
<td>The CIDR of the associated instance.</td>
</tr>
<tr>
<td>State</td>
<td>String</td>
<td>The status of the associated instance:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- PENDING : In application</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- ACTIVE : Connected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- EXPIRED : Expired</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- REJECTED : Rejected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- DELETED : Deleted</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- FAILED : Failed (It will be asynchronously unbound after 2 hours)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- ATTACHING : binding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- DETACHING : Unbinding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- DETACHFAILED : The unbinding failed (it will be asynchronously unbound after 2 hours)</td>
</tr>
<tr>
<td>AttachedTime</td>
<td>Timestamp</td>
<td>Association Time.</td>
</tr>
<tr>
<td>CcnUin</td>
<td>String</td>
<td>The UIN (root account) to which the CCN belongs.</td>
</tr>
</tbody>
</table>

---

**CcnInstance**

The instance object associated with a CCN.

Used by actions: AcceptAttachCcnInstances, AttachCcnInstances, DetachCcnInstances, RejectAttachCcnInstances, ResetAttachCcnInstances.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceId</td>
<td>String</td>
<td>Yes</td>
<td>The ID of the associated instance.</td>
</tr>
<tr>
<td>InstanceRegion</td>
<td>String</td>
<td>Yes</td>
<td>The region to which the associated instance ID belongs, such as <code>ap-guangzhou</code>.</td>
</tr>
<tr>
<td>InstanceType</td>
<td>String</td>
<td>No</td>
<td>The type of the associated instance. Available values are:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- VPC : VPC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- DIRECTCONNECT : Direct Connect</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- BMVPC : BM VPC</td>
</tr>
</tbody>
</table>

---

**CcnRegionBandwidthLimit**

The outbound bandwidth cap of the CCN region
Used by actions: SetCcnRegionBandwidthLimits.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Region</td>
<td>String</td>
<td>Yes</td>
<td>Region, such as <code>ap-guangzhou</code></td>
</tr>
<tr>
<td>BandwidthLimit</td>
<td>Integer</td>
<td>Yes</td>
<td>The outbound bandwidth cap. Units: Mbps</td>
</tr>
<tr>
<td>IsBm</td>
<td>Boolean</td>
<td>No</td>
<td>Whether it is a BM region. The default is <code>false</code></td>
</tr>
<tr>
<td>DstRegion</td>
<td>String</td>
<td>No</td>
<td>The target region, such as <code>ap-shanghai</code></td>
</tr>
<tr>
<td>DstIsBm</td>
<td>Boolean</td>
<td>No</td>
<td>Whether the target region is a BM region. The default is <code>false</code></td>
</tr>
</tbody>
</table>

**CcnRoute**

The CCN routing policy object

Used by actions: DescribeCcnRoutes.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RouteId</td>
<td>String</td>
<td>The ID of the routing policy</td>
</tr>
<tr>
<td>DestinationCidrBlock</td>
<td>String</td>
<td>Destination</td>
</tr>
<tr>
<td>InstanceType</td>
<td>String</td>
<td>The type of the next hop (associated instance type). Available types: VPC, DIRECTCONNECT</td>
</tr>
<tr>
<td>InstanceId</td>
<td>String</td>
<td>The next hop (associated instance)</td>
</tr>
<tr>
<td>InstanceName</td>
<td>String</td>
<td>The name of the next hop (associated instance name)</td>
</tr>
<tr>
<td>InstanceRegion</td>
<td>String</td>
<td>The region of the next hop (the region of the associated instance)</td>
</tr>
<tr>
<td>UpdateTime</td>
<td>Timestamp</td>
<td>Update Time</td>
</tr>
<tr>
<td>Enabled</td>
<td>Boolean</td>
<td>Whether the route is enabled</td>
</tr>
<tr>
<td>InstanceUin</td>
<td>String</td>
<td>The UIN (root account) to which the associated instance belongs</td>
</tr>
</tbody>
</table>

**ClassicLinkInstance**

Classiclink instance

Used by actions: DescribeClassicLinkInstances.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID</td>
</tr>
<tr>
<td>InstanceId</td>
<td>String</td>
<td>The unique ID of the CVM instance</td>
</tr>
</tbody>
</table>

**ConflictItem**

Conflict resource items.

Used by actions: CheckAssistantCidr.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConflictId</td>
<td>String</td>
<td>Conflict resource ID</td>
</tr>
<tr>
<td>DestinationItem</td>
<td>String</td>
<td>Conflict destination resource</td>
</tr>
</tbody>
</table>
ConflictSource

Conflict resource.
Used by actions: CheckAssistantCidr.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConflictSourceId</td>
<td>String</td>
<td>Conflict resource ID</td>
</tr>
<tr>
<td>SourceItem</td>
<td>String</td>
<td>Conflict resource</td>
</tr>
<tr>
<td>ConflictItemSet</td>
<td>Array of ConflictItem</td>
<td>Conflict resource items</td>
</tr>
</tbody>
</table>

CustomerGateway

Customer Gateway
Used by actions: CreateCustomerGateway, DescribeCustomerGateways.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CustomerGatewayId</td>
<td>String</td>
<td>The unique ID of the customer gateway</td>
</tr>
<tr>
<td>CustomerGatewayName</td>
<td>String</td>
<td>Gateway Name</td>
</tr>
<tr>
<td>IpAddress</td>
<td>String</td>
<td>Public network address</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>The creation time.</td>
</tr>
</tbody>
</table>

CustomerGatewayVendor

Customer gateway vendor information object.
Used by actions: DescribeCustomerGatewayVendors, DownloadCustomerGatewayConfiguration.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platform</td>
<td>String</td>
<td>Yes</td>
<td>Platform.</td>
</tr>
<tr>
<td>SoftwareVersion</td>
<td>String</td>
<td>Yes</td>
<td>Software version.</td>
</tr>
<tr>
<td>VendorName</td>
<td>String</td>
<td>Yes</td>
<td>Vendor name.</td>
</tr>
</tbody>
</table>

CvmInstance

A CVM instance.
Used by actions: DescribeVpcInstances.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>Subnet instance ID.</td>
</tr>
<tr>
<td>InstanceId</td>
<td>String</td>
<td>CVM instance ID.</td>
</tr>
<tr>
<td>InstanceName</td>
<td>String</td>
<td>CVM Name</td>
</tr>
<tr>
<td>InstanceState</td>
<td>String</td>
<td>CVM status.</td>
</tr>
<tr>
<td>CPU</td>
<td>Integer</td>
<td>Number of CPU cores in an instance (in core).</td>
</tr>
<tr>
<td>Memory</td>
<td>Integer</td>
<td>Instance’s memory capacity. Unit: GB.</td>
</tr>
<tr>
<td>Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>--------------------------------------------------------------</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>The creation time.</td>
</tr>
<tr>
<td>InstanceType</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>EniLimit</td>
<td>integer</td>
<td>Instance ENI quota (including primary ENIs).</td>
</tr>
<tr>
<td>EniIpLimit</td>
<td>Integer</td>
<td>Private IP quota for instance ENIs (including primary ENIs).</td>
</tr>
<tr>
<td>InstanceEniCount</td>
<td>Integer</td>
<td>The number of ENIs (including primary ENIs) bound to a instance.</td>
</tr>
</tbody>
</table>

**DefaultVpcSubnet**

Default VPC and subnet

Used by actions: CreateDefaultVpc.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>Default VpcId</td>
</tr>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>Default SubnetId</td>
</tr>
</tbody>
</table>

**DestinationIpPortTranslationNatRule**

The port forwarding rules of the NAT gateway

Used by actions: CreateNatGateway, CreateNatGatewayDestinationIpPortTranslationNatRule, DeleteNatGatewayDestinationIpPortTranslationNatRule, DescribeNatGateways, ModifyNatGatewayDestinationIpPortTranslationNatRule.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IpProtocol</td>
<td>String</td>
<td>Network protocol. Available choices: TCP, UDP.</td>
</tr>
<tr>
<td>PublicIpAddress</td>
<td>String</td>
<td>EIP.</td>
</tr>
<tr>
<td>PublicPort</td>
<td>Integer</td>
<td>Public port.</td>
</tr>
<tr>
<td>PrivateIpAddress</td>
<td>String</td>
<td>Private network address.</td>
</tr>
<tr>
<td>PrivatePort</td>
<td>Integer</td>
<td>Private network port.</td>
</tr>
<tr>
<td>Description</td>
<td>String</td>
<td>NAT gateway forwarding rule description.</td>
</tr>
</tbody>
</table>

**DirectConnectGatewayCcnRoute**

The object of the CCN route (IDC IP range) of the Direct Connect gateway

Used by actions: CreateDirectConnectGatewayCcnRoutes, DescribeDirectConnectGatewayCcnRoutes, ReplaceDirectConnectGatewayCcnRoutes.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RouteId</td>
<td>String</td>
<td>Route ID.</td>
</tr>
<tr>
<td>DestinationCidrBlock</td>
<td>String</td>
<td>IDC IP range.</td>
</tr>
<tr>
<td>ASPath</td>
<td>Array of String</td>
<td>The AS-Path attribute of BGP.</td>
</tr>
</tbody>
</table>

**Filter**

Filter
Used by actions: DescribeAddressTemplateGroups, DescribeAddressTemplates, DescribeAddresses, DescribeAssistantCidr,
DescribeCcnAttachedInstances, DescribeCcnRoutes, DescribeCns, DescribeCustomerGateways, DescribeHaVips,
DescribeNatGatewayDestinationIpPortTranslationNatRules, DescribeNatGateways, DescribeNetDetectStates, DescribeNetDetects,
DescribeNetworkAcls, DescribeNetworkInterfaces, DescribeRouteTables, DescribeSecurityGroups, DescribeServiceTemplateGroups,
DescribeServiceTemplates, DescribeSubnets, DescribeVpcInstances, DescribeVpcs, DescribeVpnConnections.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>String</td>
<td>Yes</td>
<td>The attribute name. If more than one Filter exists, the logical relation</td>
</tr>
<tr>
<td>Values</td>
<td>Array of String</td>
<td>Yes</td>
<td>If there are multiple Values for one Filter, the logical relation under the</td>
</tr>
</tbody>
</table>

FilterObject

Filter key-value pair

Used by actions: DescribeClassicLinkInstances, DescribeVpnGateways.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>String</td>
<td>Yes</td>
<td>The attribute name. If more than one Filter exists, the logical relation</td>
</tr>
<tr>
<td>Values</td>
<td>Array of String</td>
<td>Yes</td>
<td>If there are multiple Values for one Filter, the logical relation under the</td>
</tr>
</tbody>
</table>

GatewayFlowMonitorDetail

The gateway traffic monitoring details

Used by actions: DescribeGatewayFlowMonitorDetail.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrivateIpAddress</td>
<td>String</td>
<td>Origin IP</td>
</tr>
<tr>
<td>InPkg</td>
<td>Integer</td>
<td>Inbound packets.</td>
</tr>
<tr>
<td>OutPkg</td>
<td>Integer</td>
<td>Outbound packets.</td>
</tr>
<tr>
<td>InTraffic</td>
<td>Integer</td>
<td>Inbound bandwidth, unit: Byte</td>
</tr>
<tr>
<td>OutTraffic</td>
<td>Integer</td>
<td>Outbound bandwidth, unit: Byte</td>
</tr>
</tbody>
</table>

GatewayQos

Gateway bandwidth limit information

Used by actions: DescribeGatewayFlowQos.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID.</td>
</tr>
<tr>
<td>IpAddress</td>
<td>String</td>
<td>CVM Private IP.</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>Integer</td>
<td>Bandwidth limit value.</td>
</tr>
<tr>
<td>createTime</td>
<td>String</td>
<td>The creation time.</td>
</tr>
</tbody>
</table>

HaVip

HAVIP description information
Used by actions: `CreateHaVip`, `DescribeHaVips`.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HaVipId</td>
<td>String</td>
<td>The ID of the HAVIP. This is the unique identifier of the HAVIP.</td>
</tr>
<tr>
<td>HaVipName</td>
<td>String</td>
<td>The name of the HAVIP.</td>
</tr>
<tr>
<td>Vip</td>
<td>String</td>
<td>The virtual IP address.</td>
</tr>
<tr>
<td>VpcId</td>
<td>String</td>
<td>The ID of the VPC to which the HAVIP belongs.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>The ID of the subnet to which the HAVIP belongs.</td>
</tr>
<tr>
<td>NetworkInterfaceId</td>
<td>String</td>
<td>The ID of the ENI associated with the HAVIP.</td>
</tr>
<tr>
<td>InstanceId</td>
<td>String</td>
<td>The ID of the bound instance.</td>
</tr>
<tr>
<td>AddressIp</td>
<td>String</td>
<td>Bound EIP.</td>
</tr>
<tr>
<td>State</td>
<td>String</td>
<td>Status: AVAILABLE: Operating UNBIND: Not bound</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>Timestamp</td>
<td>Creation Time.</td>
</tr>
<tr>
<td>Business</td>
<td>String</td>
<td>Identifier for businesses that use HAVIP.</td>
</tr>
</tbody>
</table>

**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`.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PropoAuthenAlgorithm</td>
<td>String</td>
<td>No</td>
<td>Verification algorithm. Available value: ‘MD5’ and ‘SHA1’. Default is MD5.</td>
</tr>
<tr>
<td>ExchangeMode</td>
<td>String</td>
<td>No</td>
<td>Negotiation mode. Available values: ‘AGGRESSIVE’ and ‘MAIN’. Default is MAIN.</td>
</tr>
<tr>
<td>LocalIdentity</td>
<td>String</td>
<td>No</td>
<td>Type of local identity. Available values: ‘ADDRESS’ and ‘FQDN’. Default is ADDRESS.</td>
</tr>
<tr>
<td>RemoteIdentity</td>
<td>String</td>
<td>No</td>
<td>Type of remote identity. Available values: ‘ADDRESS’ and ‘FQDN’. Default is ADDRESS.</td>
</tr>
<tr>
<td>LocalAddress</td>
<td>String</td>
<td>No</td>
<td>Local identity. When ADDRESS is selected for LocalIdentity, LocalAddress is required. The default LocalAddress is the public IP of the VPN gateway.</td>
</tr>
<tr>
<td>RemoteAddress</td>
<td>String</td>
<td>No</td>
<td>Remote identity. When ADDRESS is selected for RemoteIdentity, RemoteAddress is required.</td>
</tr>
<tr>
<td>LocalFqdnName</td>
<td>String</td>
<td>No</td>
<td>Local identity. When FQDN is selected for LocalIdentity, LocalFqdnName is required.</td>
</tr>
<tr>
<td>RemoteFqdnName</td>
<td>String</td>
<td>No</td>
<td>Remote identity. When FQDN is selected for RemoteIdentity, RemoteFqdnName is required.</td>
</tr>
<tr>
<td>DhGroupName</td>
<td>String</td>
<td>No</td>
<td>DH group. Specify the DH group used for exchanging the key via IKE. Available values: ‘GROUP1’, ‘GROUP2’, ‘GROUP5’, ‘GROUP14’, and ‘GROUP24’.</td>
</tr>
<tr>
<td>IKESaLifetimeSeconds</td>
<td>Integer</td>
<td>No</td>
<td>IKE SA lifetime (in sec). Value range: 60-604800</td>
</tr>
<tr>
<td>IKEVersion</td>
<td>String</td>
<td>No</td>
<td>IKE version</td>
</tr>
</tbody>
</table>

**IPSECOptionsSpecification**

IPSec configuration. The IPSec secure session configuration is provided by Tencent Cloud.

Used by actions: `CreateVpnConnection`, `DescribeVpnConnections`, `ModifyVpnConnectionAttribute`. 
<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IntegrityAlgorithm</td>
<td>String</td>
<td>No</td>
<td>Verification algorithm. Available value: ‘MD5’ and ‘SHA1’. Default is:</td>
</tr>
<tr>
<td>IPSECSaLifetimeSeconds</td>
<td>Integer</td>
<td>No</td>
<td>IPsec SA lifetime (in sec). Value range: 180-604800</td>
</tr>
<tr>
<td>IPSECSaLifetimeTraffic</td>
<td>Integer</td>
<td>No</td>
<td>IPsec SA lifetime (in KB). Value range: 2560-604800</td>
</tr>
</tbody>
</table>

**InstanceChargePrepaid**

Prepaid (monthly subscription) billing object.

Used by actions: CreateVpnGateway, InquiryPriceCreateVpnGateway, InquiryPriceRenewVpnGateway, RenewVpnGateway.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period</td>
<td>Integer</td>
<td>Yes</td>
<td>Purchased usage period (in month). Value range: [1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, 36].</td>
</tr>
<tr>
<td>RenewFlag</td>
<td>String</td>
<td>No</td>
<td>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</td>
</tr>
</tbody>
</table>

**InstanceStatistic**

Statistics used to describe the instance

Used by actions: DescribeSecurityGroupAssociationStatistics.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceType</td>
<td>String</td>
<td>Type of instance</td>
</tr>
<tr>
<td>InstanceCount</td>
<td>Integer</td>
<td>Number of instances</td>
</tr>
</tbody>
</table>

**Ipv6Address**

IPv6 address information.

Used by actions: AssignIpv6Addresses, CreateNetworkInterface, DescribeNetworkInterfaces, ModifyIpv6AddressesAttribute, UnassignIpv6Addresses.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>String</td>
<td>Yes</td>
<td>IPv6 address, such as 3402:4e00:20:100:0:80d9:2a67:71f3</td>
</tr>
<tr>
<td>Primary</td>
<td>Boolean</td>
<td>No</td>
<td>Whether it is a primary IP.</td>
</tr>
<tr>
<td>Addressid</td>
<td>String</td>
<td>No</td>
<td>The ID of the EIP instance, such as eip-hxlqja90.</td>
</tr>
<tr>
<td>Description</td>
<td>String</td>
<td>No</td>
<td>Message description</td>
</tr>
<tr>
<td>IsWanIpBlocked</td>
<td>Boolean</td>
<td>No</td>
<td>Whether the public IP is blocked.</td>
</tr>
<tr>
<td>State</td>
<td>String</td>
<td>No</td>
<td>IPv6 address status:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• PENDING : Creating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• MIGRATING : Migrating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• DELETING : Deleting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• AVAILABLE : Available</td>
</tr>
</tbody>
</table>
**Ipv6SubnetCidrBlock**

IPv6 subnet IP range object.

Used by actions: AssignIpv6SubnetCidrBlock, UnassignIpv6SubnetCidrBlock.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>Yes</td>
<td>The ID of the subnet instance, such as subnet-pxir56ns.</td>
</tr>
<tr>
<td>Ipv6CidrBlock</td>
<td>String</td>
<td>No</td>
<td>The IPv6 subnet IP range, such as 3402:4e00:20:1001::/64</td>
</tr>
</tbody>
</table>

**ItemPrice**

The pricing information of a single billing item


<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnitPrice</td>
<td>Float</td>
<td>The pay-as-you-go billing method. Unit: CNY.</td>
</tr>
<tr>
<td>ChargeUnit</td>
<td>String</td>
<td>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).</td>
</tr>
<tr>
<td>OriginalPrice</td>
<td>Float</td>
<td>Original price of the prepaid product. Unit: CNY.</td>
</tr>
<tr>
<td>DiscountPrice</td>
<td>Float</td>
<td>Discount price of the prepaid product. Unit: CNY.</td>
</tr>
</tbody>
</table>

**NatGateway**

NAT gateway object.

Used by actions: CreateNatGateway, DescribeNatGateways.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NatGatewayId</td>
<td>String</td>
<td>NAT gateway ID.</td>
</tr>
<tr>
<td>NatGatewayName</td>
<td>String</td>
<td>NAT gateway name.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>NAT gateway creation time.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>Integer</td>
<td>The maximum outbound bandwidth of the gateway. Unit: Mbps.</td>
</tr>
<tr>
<td>MaxConcurrentConnection</td>
<td>Integer</td>
<td>The concurrent connections cap of the gateway.</td>
</tr>
<tr>
<td>PublicIpAddressSet</td>
<td>Array of NatGatewayAddress</td>
<td>The public IP object array of the bound NAT gateway.</td>
</tr>
<tr>
<td>NetworkState</td>
<td>String</td>
<td>The NAT gateway status. AVAILABLE : Operating, UNAVAILABLE : Unavailable, INSUFFICIENT : Account is in arrears and the service is suspended.</td>
</tr>
<tr>
<td>DestinationIpPortTranslationNatRuleSet</td>
<td>Array of DestinationIpPortTranslationNatRule</td>
<td>The port forwarding rules of the NAT gateway.</td>
</tr>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID.</td>
</tr>
</tbody>
</table>
## Virtual Private Cloud

### NetDetect

The network detection object.

Used by actions: `CreateNetDetect`, `DescribeNetDetects`.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>The ID of a VPC instance, such as <code>vpc-12345678</code></td>
</tr>
<tr>
<td>VpcName</td>
<td>String</td>
<td>The name of a VPC instance.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>The ID of a subnet instance, such as <code>subnet-12345678</code></td>
</tr>
<tr>
<td>SubnetName</td>
<td>String</td>
<td>The name of a subnet instance.</td>
</tr>
<tr>
<td>NetDetectId</td>
<td>String</td>
<td>The ID of a network detection instance, such as <code>netd-12345678</code></td>
</tr>
<tr>
<td>NetDetectName</td>
<td>String</td>
<td>The name of a network detection instance. The maximum length is 60 characters.</td>
</tr>
</tbody>
</table>

### NatGatewayAddress

The EIP bound to the NAT gateway

Used by actions: `CreateNatGateway`, `DescribeNatGateways`.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressId</td>
<td>String</td>
<td>The unique ID of the Elastic IP (EIP), such as <code>eip-11112222</code></td>
</tr>
<tr>
<td>PublicIpAddress</td>
<td>String</td>
<td>The public IP address, such as <code>123.121.34.33</code></td>
</tr>
<tr>
<td>IsBlocked</td>
<td>Boolean</td>
<td>The block status of the resource. <code>true</code> indicates the EIP is blocked. <code>false</code> indicates that the EIP is not blocked.</td>
</tr>
</tbody>
</table>

### NatGatewayDestinationIpPortTranslationNatRule

The port forwarding rules of the NAT gateway

Used by actions: `DescribeNatGatewayDestinationIpPortTranslationNatRules`.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IpProtocol</td>
<td>String</td>
<td>Network protocol. Available choices: <code>TCP</code>, <code>UDP</code></td>
</tr>
<tr>
<td>PublicIpAddress</td>
<td>String</td>
<td>EIP</td>
</tr>
<tr>
<td>PublicPort</td>
<td>Integer</td>
<td>Public port.</td>
</tr>
<tr>
<td>PrivateIpAddress</td>
<td>String</td>
<td>Private network address.</td>
</tr>
<tr>
<td>PrivatePort</td>
<td>Integer</td>
<td>Private network port.</td>
</tr>
<tr>
<td>Description</td>
<td>String</td>
<td>NAT gateway forwarding rule description.</td>
</tr>
<tr>
<td>NatGatewayId</td>
<td>String</td>
<td>NAT gateway ID. Note: This field may return null, indicating no valid value.</td>
</tr>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC ID. Note: This field may return null, indicating no valid value.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>The creation time of the NAT gateway forwarding rule. Note: This field may return null, indicating no valid value.</td>
</tr>
</tbody>
</table>

## Zone

The availability zone in which the NAT gateway is located.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone</td>
<td>String</td>
<td>The availability zone in which the NAT gateway is located.</td>
</tr>
<tr>
<td>Name</td>
<td>Type</td>
<td>Description</td>
</tr>
</tbody>
</table>
|-----------------------------|-------------------------|-----------------------------------------------------------------------------
| 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; DIRECTCONNECT: direct connect gateway; PEERCONNECTION: peering connection; NAT: NAT gateway; NORMAL_CVM: normal CVM. |
| NextHopDestination          | String                  | Next-hop destination gateway. The value is related to NextHopType. If NextHopType is set to VPN, the value of this parameter is the VPN gateway ID, such as vpngw-12345678. If NextHopType is set to DIRECTCONNECT, the value of this parameter is the direct connect gateway ID, such as dcg-12345678. If NextHopType is set to PEERCONNECTION, the value of this parameter is the peering connection ID, such as pcx-12345678. If NextHopType is set to NAT, the value of this parameter is the 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. |
| 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 NetDetectIpState| The array of network detection destination IP verification results. |
NetworkAcl

Network ACL

Used by actions: CreateNetworkAcl, DescribeNetworkAcls.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>ID of the VPC instance.</td>
</tr>
<tr>
<td>NetworkAclId</td>
<td>String</td>
<td>ID of the network ACL instance.</td>
</tr>
<tr>
<td>NetworkAclName</td>
<td>String</td>
<td>Name of the network ACL. The maximum length is 60 bytes.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>Creation time.</td>
</tr>
<tr>
<td>SubnetSet</td>
<td>Array of Subnet</td>
<td>Array of subnets associated with the network ACL.</td>
</tr>
<tr>
<td>IngressEntries</td>
<td>Array of NetworkAclEntry</td>
<td>Inbound rules of the network ACL.</td>
</tr>
<tr>
<td>EgressEntries</td>
<td>Array of NetworkAclEntry</td>
<td>Outbound rules of the network ACL.</td>
</tr>
</tbody>
</table>

NetworkAclEntry

Network ACL rules.

Used by actions: CreateNetworkAcl, DescribeNetworkAcls, ModifyNetworkAclEntries.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ModifyTime</td>
<td>String</td>
<td>Yes</td>
<td>Modification time.</td>
</tr>
<tr>
<td>Protocol</td>
<td>String</td>
<td>No</td>
<td>Protocol. Valid values: TCP, UDP, ICMP, ALL.</td>
</tr>
<tr>
<td>Port</td>
<td>String</td>
<td>No</td>
<td>Port. Valid values: all, single port, range. When Protocol takes the value ALL or ICMP, Port cannot be specified.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>String</td>
<td>No</td>
<td>IP range or IP address (mutually exclusive).</td>
</tr>
<tr>
<td>Ipv6CidrBlock</td>
<td>String</td>
<td>No</td>
<td>CIDR block or IPv6 address (mutually exclusive).</td>
</tr>
<tr>
<td>Action</td>
<td>String</td>
<td>No</td>
<td>ACCEPT or DROP.</td>
</tr>
<tr>
<td>Description</td>
<td>String</td>
<td>No</td>
<td>Rule description, which is up to 100 bytes.</td>
</tr>
</tbody>
</table>

NetworkAclEntrySet

Network ACL rule set

Used by actions: ModifyNetworkAclEntries.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingress</td>
<td>Array of NetworkAclEntry</td>
<td>No</td>
<td>Inbound rules.</td>
</tr>
<tr>
<td>Egress</td>
<td>Array of NetworkAclEntry</td>
<td>No</td>
<td>Outbound rules.</td>
</tr>
</tbody>
</table>

NetworkInterface

ENI

Used by actions: CreateNetworkInterface, DescribeNetworkInterfaces.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NetworkInterfaceId</td>
<td>String</td>
<td>The ID of the ENI instance, such as eni-f1xjx1lb.</td>
</tr>
<tr>
<td>Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>NetworkInterfaceName</td>
<td>String</td>
<td>ENI Name</td>
</tr>
<tr>
<td>NetworkInterfaceDescription</td>
<td>String</td>
<td>ENI description.</td>
</tr>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>Subnet instance ID.</td>
</tr>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID.</td>
</tr>
<tr>
<td>GroupSet</td>
<td>Array of String</td>
<td>Bound security group.</td>
</tr>
<tr>
<td>Primary</td>
<td>Boolean</td>
<td>Whether it is the primary ENI.</td>
</tr>
<tr>
<td>MacAddress</td>
<td>String</td>
<td>MAC address</td>
</tr>
<tr>
<td>State</td>
<td>String</td>
<td>ENI status:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• PENDING : Creating</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AVAILABLE : Available</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• ATTACHING : Binding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• DETACHING : Unbinding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• DELETING : Deleting</td>
</tr>
<tr>
<td>PrivetipAddressSet</td>
<td>Array of String</td>
<td>Private IP information.</td>
</tr>
<tr>
<td>Attachment</td>
<td>NetworkInterfaceAttachment</td>
<td>Bound CVM object. Note: This field may return null, indicating no valid value.</td>
</tr>
<tr>
<td>Zone</td>
<td>String</td>
<td>Availability Zone.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>Creation Time.</td>
</tr>
<tr>
<td>Ipv6AddressSet</td>
<td>Array of Ipv6Address</td>
<td>The IPv6 address list.</td>
</tr>
<tr>
<td>TagSet</td>
<td>Array of Tag</td>
<td>Tag key-value pair.</td>
</tr>
<tr>
<td>EniType</td>
<td>Integer</td>
<td>The ENI type. 0: ENI, 1: EVM ENI.</td>
</tr>
</tbody>
</table>

### NetworkInterfaceAttachment

Binding relationship of the ENI

Used by actions: CreateNetworkInterface, DescribeNetworkInterfaces.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceId</td>
<td>String</td>
<td>CVM instance ID.</td>
</tr>
<tr>
<td>DeviceIndex</td>
<td>Integer</td>
<td>The serial number of ENI in the CVM instance.</td>
</tr>
<tr>
<td>InstanceAccountld</td>
<td>String</td>
<td>The account information of the CVM owner.</td>
</tr>
<tr>
<td>AttachTime</td>
<td>String</td>
<td>Binding time</td>
</tr>
</tbody>
</table>

### Price


<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstancePrice</td>
<td>ItemPrice</td>
<td>Instance price.</td>
</tr>
<tr>
<td>BandwidthPrice</td>
<td>ItemPrice</td>
<td>Network price.</td>
</tr>
</tbody>
</table>
### PrivatIpAddressesSpecification

Private IP information

Used by actions: AssignPrivateIpAddresses, CreateNetworkInterface, DescribeNetworkInterfaces, ModifyPrivateIpAddressesAttribute, UnassignPrivateIpAddresses.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrivateIpAddress</td>
<td>String</td>
<td>Yes</td>
<td>Private IP address.</td>
</tr>
<tr>
<td>Primary</td>
<td>Boolean</td>
<td>No</td>
<td>Whether it is a primary IP.</td>
</tr>
<tr>
<td>PublicIpAddress</td>
<td>String</td>
<td>No</td>
<td>Public IP address.</td>
</tr>
<tr>
<td>AddressId</td>
<td>String</td>
<td>No</td>
<td>EIP instance ID, such as eip-11112222.</td>
</tr>
<tr>
<td>Description</td>
<td>String</td>
<td>No</td>
<td>Private IP description.</td>
</tr>
<tr>
<td>IsWanIpBlocked</td>
<td>Boolean</td>
<td>No</td>
<td>Whether the public IP is blocked.</td>
</tr>
</tbody>
</table>
| State           | String| No       | IP status: PENDING: Creating
MIGRATING: Migrating
DELETING: Deleting
AVAILABLE: Available |

### Quota

Quota description information

Used by actions: DescribeAddressQuota.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QuotaId</td>
<td>String</td>
<td>Quota name. Value range:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• TOTAL_EIP_QUOTA : EIP quota under the user's current region</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• DAILY_EIP_APPLY : Number of EIP applications submitted daily under the user's current region</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• DAILY_PUBLIC_IP_ASSIGN : Number of public IP reassignments under the user's current region</td>
</tr>
<tr>
<td>QuotaCurrent</td>
<td>Integer</td>
<td>Current count</td>
</tr>
<tr>
<td>QuotaLimit</td>
<td>Integer</td>
<td>Quota</td>
</tr>
</tbody>
</table>

### ReferredSecurityGroup

Referred security groups

Used by actions: DescribeSecurityGroupReferences.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SecurityGroupId</td>
<td>String</td>
<td>Security group instance ID.</td>
</tr>
<tr>
<td>ReferredSecurityGroupIds</td>
<td>Array of String</td>
<td>IDs of all referred security group instances.</td>
</tr>
</tbody>
</table>

### ResourceDashboard

VPC resource dashboard (all resource counts)

Used by actions: DescribeVpcResourceDashboard.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>Vpc instance ID, e.g. vpc-f1xjkw1b.</td>
</tr>
<tr>
<td>Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>--------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>Subnet instance ID, such as subnet-bthucmmy.</td>
</tr>
<tr>
<td>Classiclink</td>
<td>Integer</td>
<td>Classiclink.</td>
</tr>
<tr>
<td>Dcg</td>
<td>Integer</td>
<td>Direct Connect gateway.</td>
</tr>
<tr>
<td>Pcx</td>
<td>Integer</td>
<td>Peering connection.</td>
</tr>
<tr>
<td>Ip</td>
<td>Integer</td>
<td>The total number of used IP addresses.</td>
</tr>
<tr>
<td>Nat</td>
<td>Integer</td>
<td>NAT gateway.</td>
</tr>
<tr>
<td>Vpngw</td>
<td>Integer</td>
<td>VPN gateway.</td>
</tr>
<tr>
<td>FlowLog</td>
<td>Integer</td>
<td>Flow log.</td>
</tr>
<tr>
<td>NetworkDetect</td>
<td>Integer</td>
<td>Network probing.</td>
</tr>
<tr>
<td>NetworkACL</td>
<td>Integer</td>
<td>Network ACL.</td>
</tr>
<tr>
<td>CVM</td>
<td>Integer</td>
<td>Cloud Virtual Machine.</td>
</tr>
<tr>
<td>LB</td>
<td>Integer</td>
<td>Load balancer.</td>
</tr>
<tr>
<td>CDB</td>
<td>Integer</td>
<td>Relational database.</td>
</tr>
<tr>
<td>Cmem</td>
<td>Integer</td>
<td>TencentDB for Memcached.</td>
</tr>
<tr>
<td>CTSDB</td>
<td>Integer</td>
<td>Cloud time series database.</td>
</tr>
<tr>
<td>MariaDB</td>
<td>Integer</td>
<td>TencentDB for MariaDB (TDSQL).</td>
</tr>
<tr>
<td>SQLServer</td>
<td>Integer</td>
<td>TencentDB for SQL Server.</td>
</tr>
<tr>
<td>Postgres</td>
<td>Integer</td>
<td>TencentDB for PostgreSQL.</td>
</tr>
<tr>
<td>NAS</td>
<td>Integer</td>
<td>Network attached storage.</td>
</tr>
<tr>
<td>Greenplumn</td>
<td>Integer</td>
<td>Snova data warehouse.</td>
</tr>
<tr>
<td>Ckafka</td>
<td>Integer</td>
<td>Cloud Kafka (Ckafka).</td>
</tr>
<tr>
<td>Grocery</td>
<td>Integer</td>
<td>Grocery.</td>
</tr>
<tr>
<td>HSM</td>
<td>Integer</td>
<td>Data encryption service.</td>
</tr>
<tr>
<td>Tcaplus</td>
<td>Integer</td>
<td>Game storage - Tcaplus.</td>
</tr>
<tr>
<td>Cnas</td>
<td>Integer</td>
<td>Cnas.</td>
</tr>
<tr>
<td>TiDB</td>
<td>Integer</td>
<td>HTAP database - TiDB.</td>
</tr>
<tr>
<td>Emr</td>
<td>Integer</td>
<td>EMR cluster.</td>
</tr>
<tr>
<td>SEAL</td>
<td>Integer</td>
<td>SEAL.</td>
</tr>
<tr>
<td>CFS</td>
<td>Integer</td>
<td>Cloud file storage - CFS.</td>
</tr>
<tr>
<td>Oracle</td>
<td>Integer</td>
<td>Oracle.</td>
</tr>
<tr>
<td>ElasticSearch</td>
<td>Integer</td>
<td></td>
</tr>
<tr>
<td>TBaaS</td>
<td>Integer</td>
<td>Blockchain service.</td>
</tr>
<tr>
<td>Itop</td>
<td>Integer</td>
<td>Itop.</td>
</tr>
<tr>
<td>DBAudit</td>
<td>Integer</td>
<td>Cloud database audit.</td>
</tr>
<tr>
<td>CynosDBPostgres</td>
<td>Integer</td>
<td>Enterprise TencentDB - CynosDB for Postgres.</td>
</tr>
<tr>
<td>Redis</td>
<td>Integer</td>
<td>TencentDB for Redis.</td>
</tr>
<tr>
<td>Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>MongoDB</td>
<td>Integer</td>
<td>TencentDB for MongoDB.</td>
</tr>
<tr>
<td>DCDB</td>
<td>Integer</td>
<td>A distributed cloud database - TencentDB for TDSQL.</td>
</tr>
<tr>
<td>CynosDBMySQL</td>
<td>Integer</td>
<td>An enterprise-grade TencentDB - CynosDB for MySQL.</td>
</tr>
<tr>
<td>Subnet</td>
<td>Integer</td>
<td>Subnets.</td>
</tr>
<tr>
<td>RouteTable</td>
<td>Integer</td>
<td>Route table.</td>
</tr>
</tbody>
</table>

## Route

Routing policy object

Used by actions: CreateRouteTable, CreateRoutes, DeleteRoutes, DescribeRouteTables, ReplaceRoutes, ResetRoutes.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DestinationCidrBlock</td>
<td>String</td>
<td>Yes</td>
<td>Destination IP range, such as 112.20.51.0/24. Values cannot be in the VPC IP range.</td>
</tr>
<tr>
<td>GatewayType</td>
<td>String</td>
<td>Yes</td>
<td>Type of the next hop. Currently supported types are: CVM: CVM of the public gateway type; VPN: VPN gateway; DIRECTCONNECT: direct connect gateway; PEERCONNECTION: peering connection; SSLVPN: sslvpn gateway; NAT: NAT gateway; NORMAL_CVM: normal CVM; EIP: public IP address of the CVM; CCN: Cloud Connect Network.</td>
</tr>
<tr>
<td>GatewayId</td>
<td>String</td>
<td>Yes</td>
<td>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. Important note: When the GatewayType is EIP, the GatewayId has a fixed value 0</td>
</tr>
<tr>
<td>RouteId</td>
<td>Integer</td>
<td>No</td>
<td>The ID of the routing policy.</td>
</tr>
<tr>
<td>RouteDescription</td>
<td>String</td>
<td>No</td>
<td>The description of the routing policy.</td>
</tr>
<tr>
<td>Enabled</td>
<td>Boolean</td>
<td>No</td>
<td>Whether it is enabled</td>
</tr>
<tr>
<td>RouteType</td>
<td>String</td>
<td>No</td>
<td>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.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>String</td>
<td>No</td>
<td>Route table instance ID, such as rtb-azd4dt1c.</td>
</tr>
</tbody>
</table>

## RouteTable

Route table object

Used by actions: CreateRouteTable, CreateRoutes, DescribeRouteTables.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>String</td>
<td>The route table instance ID, such as rtb-azd4dt1c.</td>
</tr>
<tr>
<td>RouteTableName</td>
<td>String</td>
<td>Route table name.</td>
</tr>
<tr>
<td>AssociationSet</td>
<td>Array of RouteTableAssociation</td>
<td>The association relationships of the route table.</td>
</tr>
</tbody>
</table>
## RouteTableAssociation

The association relationships of the route table

Used by actions: CreateRouteTable, CreateRoutes, DescribeRouteTables.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>Subnet instance ID.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>String</td>
<td>Route table instance ID.</td>
</tr>
</tbody>
</table>

## SecurityGroup

Security group object


<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SecurityGroupId</td>
<td>String</td>
<td>Yes</td>
<td>The security group instance ID, such as sg-ohuuioma.</td>
</tr>
<tr>
<td>SecurityGroupName</td>
<td>String</td>
<td>Yes</td>
<td>Security group can be named freely, but cannot exceed 60 characters.</td>
</tr>
<tr>
<td>SecurityGroupDesc</td>
<td>String</td>
<td>Yes</td>
<td>The remarks for the security group. The maximum length is 100 characters.</td>
</tr>
<tr>
<td>ProjectId</td>
<td>String</td>
<td>No</td>
<td>The project id is 0 by default. You can query this in the project management page of the Qcloud console.</td>
</tr>
<tr>
<td>IsDefault</td>
<td>Boolean</td>
<td>No</td>
<td>Whether it is the default security group (which cannot be deleted).</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>No</td>
<td>Security group creation time.</td>
</tr>
<tr>
<td>TagSet</td>
<td>Array of Tag</td>
<td>No</td>
<td>Tag key-value pairs.</td>
</tr>
</tbody>
</table>

## SecurityGroupAssociationStatistics

Statistics on the instances associated with the security group

Used by actions: DescribeSecurityGroupAssociationStatistics.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SecurityGroupId</td>
<td>String</td>
<td>Security group instance ID.</td>
</tr>
<tr>
<td>CVM</td>
<td>Integer</td>
<td>Number of CVM instances.</td>
</tr>
<tr>
<td>CDB</td>
<td>Integer</td>
<td>Number of database instances.</td>
</tr>
<tr>
<td>ENI</td>
<td>Integer</td>
<td>Number of ENI instances.</td>
</tr>
<tr>
<td>SG</td>
<td>Integer</td>
<td>Number of times a security group is referenced by other security groups.</td>
</tr>
<tr>
<td>CLB</td>
<td>Integer</td>
<td>Number of load balancer instances.</td>
</tr>
<tr>
<td>Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>InstanceStatistics</td>
<td>Array of InstanceStatistic</td>
<td>The binding statistics for all instances.</td>
</tr>
<tr>
<td>TotalCount</td>
<td>Integer</td>
<td>Total count of all resources (excluding resources referenced by security groups).</td>
</tr>
</tbody>
</table>

**SecurityGroupPolicy**

Security group policy object


<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PolicyIndex</td>
<td>Integer</td>
<td>No</td>
<td>Security group policy index number.</td>
</tr>
<tr>
<td>Port</td>
<td>String</td>
<td>No</td>
<td>Port (all, discrete port, range).</td>
</tr>
<tr>
<td>ServiceTemplate</td>
<td>ServiceTemplateSpecification</td>
<td>No</td>
<td>Protocol port ID or protocol port group ID. ServiceTemplate and Protocol+Port are mutually exclusive.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>String</td>
<td>No</td>
<td>IP range or IP (mutually exclusive).</td>
</tr>
<tr>
<td>Ipv6CidrBlock</td>
<td>String</td>
<td>No</td>
<td>The CIDR block or IPv6 (mutually exclusive).</td>
</tr>
<tr>
<td>SecurityGroupId</td>
<td>String</td>
<td>No</td>
<td>The security group instance ID, such as sg-ohuuioma.</td>
</tr>
<tr>
<td>AddressTemplate</td>
<td>AddressTemplateSpecification</td>
<td>No</td>
<td>IP address ID or IP address group ID.</td>
</tr>
<tr>
<td>Action</td>
<td>String</td>
<td>No</td>
<td>ACCEPT or DROP.</td>
</tr>
<tr>
<td>PolicyDescription</td>
<td>String</td>
<td>No</td>
<td>Security group policy description.</td>
</tr>
<tr>
<td>ModifyTime</td>
<td>String</td>
<td>No</td>
<td>The last modification time of the security group.</td>
</tr>
</tbody>
</table>

**SecurityGroupPolicySet**

Security group policy set


<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>String</td>
<td>No</td>
<td>The version of the security group policy. The version number is automatically increased by one each time users update the security policy, to prevent the expiration of updated routing policies. Conflict is ignored if it is left empty.</td>
</tr>
<tr>
<td>Egress</td>
<td>Array of SecurityGroupPolicy</td>
<td>No</td>
<td>Outbound policy.</td>
</tr>
<tr>
<td>Ingress</td>
<td>Array of SecurityGroupPolicy</td>
<td>No</td>
<td>Inbound policy.</td>
</tr>
</tbody>
</table>

**SecurityPolicyDatabase**

SecurityPolicyDatabase policy

Used by actions: CreateVpnConnection, DescribeVpnConnections, ModifyVpnConnectionAttribute.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
</table>
### ServiceTemplate

**Protocol port template**

Used by actions: CreateServiceTemplate, CreateServiceTemplateGroup, DescribeServiceTemplateGroups, DescribeServiceTemplates.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ServiceTemplateId</td>
<td>String</td>
<td>Protocol port instance ID, such as ppm-f5n1f8da.</td>
</tr>
<tr>
<td>ServiceTemplateName</td>
<td>String</td>
<td>Template name.</td>
</tr>
<tr>
<td>ServiceSet</td>
<td>Array of String</td>
<td>Protocol port information.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>Creation Time.</td>
</tr>
</tbody>
</table>

### ServiceTemplateGroup

**Protocol port template group**

Used by actions: CreateServiceTemplateGroup, DescribeServiceTemplateGroups.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ServiceTemplateGroupId</td>
<td>String</td>
<td>Protocol port template group instance ID, such as ppg-2klmrefu.</td>
</tr>
<tr>
<td>ServiceTemplateName</td>
<td>String</td>
<td>Protocol port template group name.</td>
</tr>
<tr>
<td>ServiceTemplateIdSet</td>
<td>Array of String</td>
<td>Protocol port template instance ID.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>Creation Time.</td>
</tr>
<tr>
<td>ServiceTemplateSet</td>
<td>Array of ServiceTemplate</td>
<td>Protocol port template instance information.</td>
</tr>
</tbody>
</table>

### ServiceTemplateSpecification

**Protocol port template**


<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ServiceId</td>
<td>String</td>
<td>Protocol port ID, such as ppm-f5n1f8da.</td>
</tr>
<tr>
<td>ServiceGroupId</td>
<td>String</td>
<td>Protocol port group ID, such as ppm-f5n1f8da.</td>
</tr>
</tbody>
</table>

### Subnet

**Subnet object**

Used by actions: CreateAssistantCidr, CreateNetworkAcl, CreateSubnet, CreateSubnets, CreateVpc, DescribeAssistantCidr, DescribeNetworkAcls, DescribeSubnets, DescribeVpcs, ModifyAssistantCidr.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcId</td>
<td>String</td>
<td>The ID of the VPC instance.</td>
</tr>
<tr>
<td>Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>SubnetId</td>
<td>String</td>
<td>Subnet instance ID, such as subnet-bthucmy.</td>
</tr>
<tr>
<td>SubnetName</td>
<td>String</td>
<td>Subnet name.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>String</td>
<td>The IPv4 CIDR of the subnet.</td>
</tr>
<tr>
<td>IsDefault</td>
<td>Boolean</td>
<td>Whether it is the default subnet.</td>
</tr>
<tr>
<td>EnableBroadcast</td>
<td>Boolean</td>
<td>Whether to enable broadcast.</td>
</tr>
<tr>
<td>Zone</td>
<td>String</td>
<td>Availability Zone.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>String</td>
<td>The route table instance ID, such as rtb-1208d7c2.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>Creation Time.</td>
</tr>
<tr>
<td>AvailableIpAddressCount</td>
<td>Integer</td>
<td>The number of available IPs.</td>
</tr>
<tr>
<td>Ipv6CidrBlock</td>
<td>String</td>
<td>The IPv6 CIDR of the subnet.</td>
</tr>
<tr>
<td>NetworkAclId</td>
<td>String</td>
<td>The associated ACL ID</td>
</tr>
<tr>
<td>IsRemoteVpcSnat</td>
<td>Boolean</td>
<td>Whether it is a SNAT address pool subnet.</td>
</tr>
<tr>
<td>TotalIpAddressCount</td>
<td>Integer</td>
<td>Total number of subnet IP addresses.</td>
</tr>
<tr>
<td>TagSet</td>
<td>Array of Tag</td>
<td>Tag key-value pairs</td>
</tr>
</tbody>
</table>

**SubnetInput**

Subnet object

Used by actions: CreateSubnets.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CidrBlock</td>
<td>String</td>
<td>Yes</td>
<td>The CIDR of the subnet.</td>
</tr>
<tr>
<td>SubnetName</td>
<td>String</td>
<td>Yes</td>
<td>Subnet name.</td>
</tr>
<tr>
<td>Zone</td>
<td>String</td>
<td>Yes</td>
<td>The availability zone, such as ap-guangzhou-2.</td>
</tr>
<tr>
<td>RouteTableId</td>
<td>String</td>
<td>No</td>
<td>The specified associated route table, such as rtb-3ryrkwzuu.</td>
</tr>
</tbody>
</table>

**Tag**

Tag key-value pair

Used by actions: AllocateAddresses, CreateAssistantCidr, CreateCcn, CreateNatGateway, CreateNetworkAcl, CreateNetworkInterface, CreateRouteTable, CreateRoutes, CreateSecurityGroup, CreateSecurityGroupWithPolicies, CreateSubnet, CreateSubnets, CreateVpc, DescribeAssistantCidr, DescribeCcns, DescribeNetworkAcls, DescribeNetworkInterfaces, DescribeRouteTables, DescribeSecurityGroups, DescribeSubnets, DescribeVpcs, ModifyAssistantCidr.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key</td>
<td>String</td>
<td>Tag key. Note: This field may return null, indicating no valid value.</td>
</tr>
<tr>
<td>Value</td>
<td>String</td>
<td>Tag value. Note: This field may return null, indicating no valid value.</td>
</tr>
</tbody>
</table>

**Vpc**

Virtual Private Cloud (VPC) object.
Used by actions: CreateVpc, DescribeVpcs.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpcName</td>
<td>String</td>
<td>VPC name.</td>
</tr>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID, such as vpc-azd4dt1c.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>String</td>
<td>The IPv4 CIDR of the VPC.</td>
</tr>
<tr>
<td>IsDefault</td>
<td>Boolean</td>
<td>Whether it is the default VPC.</td>
</tr>
<tr>
<td>EnableMulticast</td>
<td>Boolean</td>
<td>Whether multicast is enabled.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>Creation Time.</td>
</tr>
<tr>
<td>DnsServerSet</td>
<td>Array of String</td>
<td>DNS list.</td>
</tr>
<tr>
<td>DomainName</td>
<td>String</td>
<td>DHCP domain name option value.</td>
</tr>
<tr>
<td>DhcpOptionsId</td>
<td>String</td>
<td>DHCP option set ID.</td>
</tr>
<tr>
<td>EnableDhcp</td>
<td>Boolean</td>
<td>Whether DHCP is enabled.</td>
</tr>
<tr>
<td>Ipv6CidrBlock</td>
<td>String</td>
<td>The IPv6 CIDR of the VPC.</td>
</tr>
<tr>
<td>TagSet</td>
<td>Array of Tag</td>
<td>Tag key-value pair</td>
</tr>
<tr>
<td>AssistantCidrSet</td>
<td>Array of AssistantCidr</td>
<td>The secondary CIDR block. Note: This field may return null, indicating that no valid values can be obtained.</td>
</tr>
</tbody>
</table>

**Vpclv6Address**

VPC private IPv6 object.

Used by actions: DescribeVpclv6Addresses.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ipv6Address</td>
<td>String</td>
<td>VPC private IPv6 address</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>String</td>
<td>The IPv6 CIDR belonging to the subnet.</td>
</tr>
<tr>
<td>Ipv6AddressType</td>
<td>String</td>
<td>IPv6 type.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>String</td>
<td>IPv6 application time.</td>
</tr>
</tbody>
</table>

**VpcPrivatelpAddress**

VPC private IP object.

Used by actions: DescribeVpcPrivatelpAddresses.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrivatelpAddress</td>
<td>String</td>
<td>VPC private IP.</td>
</tr>
<tr>
<td>CidrBlock</td>
<td>String</td>
<td>The CIDR belonging to the subnet.</td>
</tr>
<tr>
<td>PrivatelpAddressType</td>
<td>String</td>
<td>Private IP type.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>Timestamp</td>
<td>IP application time.</td>
</tr>
</tbody>
</table>

**VpnConnection**

VPN tunnel object.
Used by actions: CreateVpnConnection，DescribeVpnConnections.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpnConnectionId</td>
<td>String</td>
<td>Tunnel instance ID.</td>
</tr>
<tr>
<td>VpnConnectionName</td>
<td>String</td>
<td>Tunnel name.</td>
</tr>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID.</td>
</tr>
<tr>
<td>VpnGatewayId</td>
<td>String</td>
<td>The ID of the VPN gateway instance.</td>
</tr>
<tr>
<td>CustomerGatewayId</td>
<td>String</td>
<td>Customer gateway instance ID.</td>
</tr>
<tr>
<td>PreShareKey</td>
<td>String</td>
<td>The pre-shared key.</td>
</tr>
<tr>
<td>VpnProto</td>
<td>String</td>
<td>Tunnel transmission protocol.</td>
</tr>
<tr>
<td>EncryptProto</td>
<td>String</td>
<td>Tunnel encryption protocol.</td>
</tr>
<tr>
<td>RouteType</td>
<td>String</td>
<td>Route Type.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>Timestamp</td>
<td>Creation Time.</td>
</tr>
<tr>
<td>State</td>
<td>String</td>
<td>Production status of the tunnel.</td>
</tr>
<tr>
<td>NetStatus</td>
<td>String</td>
<td>Connection status of the tunnel.</td>
</tr>
<tr>
<td>SecurityPolicyDatabaseSet</td>
<td>Array of SecurityPolicyDatabase</td>
<td>SPD.</td>
</tr>
<tr>
<td>IKEOptionsSpecification</td>
<td>IKEOptionsSpecification</td>
<td>IKE options.</td>
</tr>
<tr>
<td>IPSECOptionsSpecification</td>
<td>IPSECOptionsSpecification</td>
<td>IPSEC options.</td>
</tr>
</tbody>
</table>

**VpnGateway**

VPN gateway object.

Used by actions: CreateVpnGateway，DescribeVpnGateways.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VpnGatewayId</td>
<td>String</td>
<td>Gateway instance ID.</td>
</tr>
<tr>
<td>VpcId</td>
<td>String</td>
<td>VPC instance ID.</td>
</tr>
<tr>
<td>VpnGatewayName</td>
<td>String</td>
<td>Gateway instance name.</td>
</tr>
<tr>
<td>Type</td>
<td>String</td>
<td>Gateway instance type. Valid values: 'IPSEC', 'SSL', and 'CCN'.</td>
</tr>
<tr>
<td>State</td>
<td>String</td>
<td>Gateway instance status. 'PENDING': Creating; 'DELETING': Deleting; 'AVAILABLE': Running.</td>
</tr>
<tr>
<td>PublicIpAddress</td>
<td>String</td>
<td>Gateway public IP.</td>
</tr>
<tr>
<td>InstanceChargeType</td>
<td>String</td>
<td>Gateway billing type: POSTPAID_BY_HOUR: Postpaid by hour; PREPAID: Prepaid.</td>
</tr>
<tr>
<td>InternetMaxBandwidthOut</td>
<td>Integer</td>
<td>Outbound bandwidth of gateway.</td>
</tr>
<tr>
<td>CreatedTime</td>
<td>Timestamp</td>
<td>Creation Time.</td>
</tr>
<tr>
<td>ExpiredTime</td>
<td>Timestamp</td>
<td>Expiration time of the prepaid gateway.</td>
</tr>
<tr>
<td>IsAddressBlocked</td>
<td>Boolean</td>
<td>Whether the public IP is blocked.</td>
</tr>
</tbody>
</table>
# Virtual Private Cloud

## Name | Type | Description
---|---|---
**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 `ap-guangzhou-2`.

**VpnGatewayQuotaSet** | Array of `VpnGatewayQuota` | Gateway bandwidth quota information.

**Version** | String | Gateway instance version.

**NetworkInstanceId** | String | CCN instance ID when the value of Type is CCN.

---

## VpnGatewayQuota

VPN gateway quota object

Used by actions: `CreateVpnGateway`, `DescribeVpnGateways`.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bandwidth</strong></td>
<td>Integer</td>
<td>The bandwidth quota.</td>
</tr>
<tr>
<td><strong>Cname</strong></td>
<td>String</td>
<td>The bandwidth quota name in Chinese.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>String</td>
<td>The bandwidth quota name in English.</td>
</tr>
</tbody>
</table>

---

## VpngwCcnRoutes

Information on VPN gateway-based CCN routes.

Used by actions: `DescribeVpnGatewayCcnRoutes`, `ModifyVpnGatewayCcnRoutes`.

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RouteId</strong></td>
<td>String</td>
<td>Yes</td>
<td>Route ID</td>
</tr>
<tr>
<td><strong>Status</strong></td>
<td>String</td>
<td>No</td>
<td>Enable the route or not <code>ENABLE</code>: enable the route <code>DISABLE</code>: do not enable the route</td>
</tr>
</tbody>
</table>
## Error Codes

Last updated : 2020-05-15 11:12:39

### Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```json
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-bd451b8b79c6"
  }
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

### Error Code List

#### Common Error Codes

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnsupportedOperation</td>
<td>Unsupported operation.</td>
</tr>
<tr>
<td>ResourceInUse</td>
<td>Resource is in use.</td>
</tr>
<tr>
<td>InternalError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>RequestLimitExceeded</td>
<td>The number of requests exceeds the frequency limit.</td>
</tr>
<tr>
<td>AuthFailure.SecretIdNotFound</td>
<td>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.</td>
</tr>
<tr>
<td>LimitExceeded</td>
<td>Quota limit exceeded.</td>
</tr>
<tr>
<td>NoSuchVersion</td>
<td>The API version does not exist.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The resource does not exist.</td>
</tr>
<tr>
<td>AuthFailure.SignatureFailure</td>
<td>Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process as described in the Signature API documentation.</td>
</tr>
<tr>
<td>AuthFailure.SignatureExpire</td>
<td>Signature expired. Timestamp and server time cannot differ by more than five minutes. Please ensure your current local time matches the standard time.</td>
</tr>
<tr>
<td>UnsupportedRegion</td>
<td>API does not support the requested region.</td>
</tr>
<tr>
<td>UnauthorizedOperation</td>
<td>Unauthorized operation.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Incorrect parameter.</td>
</tr>
<tr>
<td>ResourceUnavailable</td>
<td>Resource is unavailable.</td>
</tr>
<tr>
<td>AuthFailure.MFAFailure</td>
<td>MFA failed.</td>
</tr>
<tr>
<td>AuthFailure.UnauthorizedOperation</td>
<td>The request is not authorized. For more information, see the <a href="#">CAM documentation</a>.</td>
</tr>
<tr>
<td>AuthFailure.InvalidSecretId</td>
<td>Invalid key (not a TencentCloud API key type).</td>
</tr>
<tr>
<td>AuthFailure.TokenFailure</td>
<td>Token error.</td>
</tr>
<tr>
<td>DryRunOperation</td>
<td>DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.</td>
</tr>
<tr>
<td>FailedOperation</td>
<td>Operation failed.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>UnknownParameter</td>
<td>Unknown parameter.</td>
</tr>
<tr>
<td>UnsupportedProtocol</td>
<td>HTTP(S) request protocol error; only GET and POST requests are supported.</td>
</tr>
<tr>
<td>InvalidParameterValue</td>
<td>Invalid parameter value.</td>
</tr>
<tr>
<td>InvalidAction</td>
<td>The API does not exist.</td>
</tr>
<tr>
<td>MissingParameter</td>
<td>A parameter is missing.</td>
</tr>
<tr>
<td>ResourceInsufficient</td>
<td>Insufficient resource.</td>
</tr>
</tbody>
</table>

### Service Error Codes

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddressQuotaLimitExceeded</td>
<td>The account quota is reached. Each Tencent Cloud account can create up to 20 EIPs in each region.</td>
</tr>
<tr>
<td>AddressQuotaLimitExceeded.DailyAllocate</td>
<td>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.</td>
</tr>
<tr>
<td>InternalServerError</td>
<td>Internal error.</td>
</tr>
<tr>
<td>InvalidAccount.NotSupported</td>
<td>This account is not supported.</td>
</tr>
<tr>
<td>InvalidAddressId.Blocked</td>
<td>The specified EIP is in blocked status. When the EIP is in blocked status, it cannot be bound. You must first unblock it.</td>
</tr>
<tr>
<td>InvalidAddressId.NotFound</td>
<td>The specified EIP does not exist.</td>
</tr>
<tr>
<td>InvalidAddressIdState.InArrears</td>
<td>The specified EIP is in arrears.</td>
</tr>
<tr>
<td>InvalidAddressIdStatus.NotPermit</td>
<td>The specified EIP cannot be bound in current status. It can only be bound in UNBIND status.</td>
</tr>
<tr>
<td>InvalidAddressState</td>
<td>The operation cannot be performed on the specified EIP in current status.</td>
</tr>
<tr>
<td>InvalidInstanceId.NotSupported</td>
<td>This instance is not supported.</td>
</tr>
<tr>
<td>InvalidInstanceId.AlreadyBindEip</td>
<td>The specified instance has already been bound to an EIP. You must unbind the current EIP first before binding another EIP.</td>
</tr>
<tr>
<td>InvalidInstanceId.NotFound</td>
<td>Invalid instance ID. The specified instance ID does not exist.</td>
</tr>
<tr>
<td>InvalidNetworkInterfaceId.NotFound</td>
<td>The specified NetworkInterfaceId does not exist or the specified PrivateIpAddress is not on the NetworkInterfaceId.</td>
</tr>
<tr>
<td>InvalidParameter.Coexist</td>
<td>The parameters cannot be specified at the same time.</td>
</tr>
<tr>
<td>InvalidParameter.NextHopMismatch</td>
<td>The next hop type does not match with the next hop gateway.</td>
</tr>
<tr>
<td>InvalidParameterConflict</td>
<td>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.</td>
</tr>
<tr>
<td>InvalidParameterValue.CcnAttachBmvpcLimitExceeded</td>
<td>The number of BM VPCs associated with the specified CCN has reached the upper limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.CidrNotInPeerVpc</td>
<td>The destination IP address range is not within the CIDR range of the the customer VPC.</td>
</tr>
<tr>
<td>InvalidParameterValue.Duplicate</td>
<td>The input parameter already exists.</td>
</tr>
<tr>
<td>InvalidParameterValue.LimitExceeded</td>
<td>The parameter value exceeds the limit.</td>
</tr>
<tr>
<td>InvalidParameterValue.Malformed</td>
<td>Invalid input parameter format.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>InvalidParameterValue.NetDetectSameIp</td>
<td>The detection destination IP address is the same as that of another network detection instance under the same subnet in the same VPC.</td>
</tr>
<tr>
<td>InvalidParameterValue.Range</td>
<td>The parameter value is not in the specified range.</td>
</tr>
<tr>
<td>InvalidParameterValue.Reserved</td>
<td>The parameter value is retained by the system.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetConflict</td>
<td>Subnet CIDR conflict.</td>
</tr>
<tr>
<td>InvalidParameterValue.SubnetRange</td>
<td>Invalid subnet CIDR.</td>
</tr>
<tr>
<td>InvalidParameterValue.TooLong</td>
<td>Invalid parameter value. The parameter value is too long.</td>
</tr>
<tr>
<td>InvalidParameterValue.VpcCidrConflict</td>
<td>Destination IP address range conflicts with CIDR of the current VPC.</td>
</tr>
<tr>
<td>InvalidParameterValue.VpnConnCidrConflict</td>
<td>Destination IP address range conflicts with CIDR block of the current VPC tunnel.</td>
</tr>
<tr>
<td>InvalidPrivateIpAddress.AlreadyBindEip</td>
<td>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.</td>
</tr>
<tr>
<td>InvalidSecurityGroupId.Malformed</td>
<td>Invalid security group. The security group instance ID is invalid.</td>
</tr>
<tr>
<td>InvalidSecurityGroupId.NotFound</td>
<td>Invalid security group. The security group instance ID does not exist.</td>
</tr>
<tr>
<td>InvalidVpcId.Malformed</td>
<td>Invalid VPC. The VPC instance ID is invalid.</td>
</tr>
<tr>
<td>InvalidVpcId.NotFound</td>
<td>Invalid VPC. The VPC resource does not exist.</td>
</tr>
<tr>
<td>InvalidVpnGatewayId.Malformed</td>
<td>Invalid VPN gateway. The VPN instance ID is invalid.</td>
</tr>
<tr>
<td>InvalidVpnGatewayId.NotFound</td>
<td>Invalid VPN gateway. The VPN instance does not exist. Verify if you have entered the correct resource information.</td>
</tr>
<tr>
<td>LimitExceeded.Address</td>
<td>The number of assigned IP addresses has reached the upper limit.</td>
</tr>
<tr>
<td>LimitExceeded.CidrBlock</td>
<td>The number of assigned IP ranges of the VPC has reached the upper limit.</td>
</tr>
<tr>
<td>LimitExceeded.NatGatewayPerVpcLimitExceeded</td>
<td>The number of NAT gateways created by the VPC has reached the upper limit.</td>
</tr>
<tr>
<td>LimitExceeded.PublicIpAddressPerNatGatewayLimitExceeded</td>
<td>The number of EIPs bound to the NAT gateway has reached the upper limit.</td>
</tr>
<tr>
<td>LimitExceeded.SubnetCidrBlock</td>
<td>The number of subnet IP ranges assigned in the subnet has reached the upper limit.</td>
</tr>
<tr>
<td>MissingResourceId</td>
<td>The entity to be bound to is missing. InstanceId, NetworkInterfaceId or PrivateIpAddress must be specified.</td>
</tr>
<tr>
<td>ResourceInUse.Address</td>
<td>The specified IP address is already in use.</td>
</tr>
<tr>
<td>ResourceInsufficient.CidrBlock</td>
<td>The IP range resources are insufficient.</td>
</tr>
<tr>
<td>UnauthorizedOperation.AttachmentNotFound</td>
<td>The binding relationship does not exist.</td>
</tr>
<tr>
<td>UnauthorizedOperation.PrimaryIp</td>
<td>The operation is not allowed for a primary IP.</td>
</tr>
<tr>
<td>UnsupportedOperation.AttachmentNotFound</td>
<td>The binding relationship does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.BindEIP</td>
<td>EIP has already been bound.</td>
</tr>
<tr>
<td>UnsupportedOperation.CIDRUnSupportedClassicLink</td>
<td>The specified VPC CIDR range does not support Classiclink.</td>
</tr>
<tr>
<td>UnsupportedOperation.CcnAttached</td>
<td>The instance is already associated with a CCN.</td>
</tr>
<tr>
<td>UnsupportedOperation.CcnNotAttached</td>
<td>The instance is not associated with a CCN.</td>
</tr>
<tr>
<td>UnsupportedOperation.ClassicInstanceAlreadyExists</td>
<td>The instance has already been bound to the VPC.</td>
</tr>
<tr>
<td>UnsupportedOperation.ConflictWithDockerRoute</td>
<td>The IP range overlaps with that of the TKE container under the VPC.</td>
</tr>
<tr>
<td>UnsupportedOperation.DuplicatePolicy</td>
<td>The security group policies are repeated.</td>
</tr>
<tr>
<td>UnsupportedOperation.Ecmp</td>
<td>ECMP is not supported.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>UnsupportedOperation.EcmpWithCcnRoute</td>
<td>Form an ECMP with the CCN route.</td>
</tr>
<tr>
<td>UnsupportedOperation.EcmpWithUserRoute</td>
<td>Form an ECMP with the user's custom routes.</td>
</tr>
<tr>
<td>UnsupportedOperation.InsufficientFunds</td>
<td>Insufficient account balance.</td>
</tr>
<tr>
<td>UnsupportedOperation.InvalidState</td>
<td>Invalid resource status.</td>
</tr>
<tr>
<td>UnsupportedOperation.IsNotFinanceAccount</td>
<td>The account of the instance associated with the current CCN is not a Financial Cloud account.</td>
</tr>
<tr>
<td>UnsupportedOperation.MutexOperationTaskRunning</td>
<td>The resource mutual exclusion operation is being executed.</td>
</tr>
<tr>
<td>UnsupportedOperation.PublicIpAddressDisassociate</td>
<td>At least one EIP exists on the NAT gateway, and the EIP cannot be unbound.</td>
</tr>
<tr>
<td>UnsupportedOperation.PublicIpAddressIsNotBGPip</td>
<td>The EIP bound to the NAT gateway is not a BGP IP.</td>
</tr>
<tr>
<td>UnsupportedOperation.PublicIpAddressIsNotExisted</td>
<td>The EIP bound to the NAT gateway does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.PublicIpAddressNotBilledByTraffic</td>
<td>The EIP bound to the NAT gateway is not bill-by-traffic.</td>
</tr>
<tr>
<td>UnsupportedOperation.SystemRoute</td>
<td>System route. Operation is prohibited.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnFound</td>
<td>The account ID does not exist.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnableToCrossBorder</td>
<td>Cross border is not supported.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnableCrossFinance</td>
<td>The current CCN cannot be associated with a Financial Cloud instance.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnassignCidrBlock</td>
<td>IPv6 IP range is not assigned.</td>
</tr>
<tr>
<td>UnsupportedOperation.UnbindEip</td>
<td>EIP is not bound.</td>
</tr>
<tr>
<td>UnsupportedOperation.VersionMismatch</td>
<td>The specified version number of the security group policy is inconsistent with the latest version.</td>
</tr>
<tr>
<td>UnsupportedOperation.VpcMismatch</td>
<td>The resources are not in the same VPC.</td>
</tr>
<tr>
<td>VpcLimitExceeded</td>
<td>The maximum number of VPC resource requests for the specified region has been reached.</td>
</tr>
</tbody>
</table>
# VPC API 2017 Update History


<table>
<thead>
<tr>
<th>Date</th>
<th>Summary</th>
<th>Description</th>
<th>API Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-04-19</td>
<td>The initial versions of the upgraded APIs have been launched.</td>
<td>The following APIs provide the capabilities of the upgraded APIs:</td>
<td>2017-03-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• VPC APIs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Subnet APIs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Route table APIs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Security group APIs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Network parameter module APIs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• ENI APIs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• ENI public IP APIs</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

API version is only used for the upgraded APIs and it must be specified for each upgraded API. The upgraded APIs were first launched with the version number of 2017-03-12. Generally, an API will be modified in a way that is compatible with the previous versions. In such case, the version number remains the same. A new version number, which is used to differentiate requests and ensure backward compatibility, is released only when there is a major change or the changes make the new version incompatible with previous versions.
The calls to Tencent Cloud APIs are achieved by sending requests to the server IP addresses of these APIs and adding relevant request parameters in the requests as described in API descriptions. A request for calling Tencent Cloud API is made up of the following elements:

1. Service Address

The service connection address of Tencent Cloud APIs depends on the modules. For details, refer to descriptions of APIs.

2. Communication Protocol

Most of Tencent Cloud APIs make communication over HTTPS to provide high-security channels.

3. Request Method

Tencent Cloud APIs support both POST and GET requests.

**Note:**

1. The two methods cannot be used at the same time. If GET method is used, parameters are obtained from the Querystring. If POST method is used, parameters are obtained from the Request Body, and the parameters in the Querystring will be ignored. The rules for parameter formats are the same for both methods. Generally, GET method is used. If the parameter strings are too long, POST method is used.
2. If GET method is used, all request parameters need to be encoded with URL encoding. If POST method is used, this is not needed.**

4. Request Parameters

Two types of parameters are needed for each request for Tencent Cloud APIs - common request parameters and API request parameters. Common request parameters are the parameters common to all APIs (For more information, refer to Common Request Parameters section), while API request parameters are parameters specific to each API (For more information, refer to “Request Parameters” description of each API.)

5. Character Encoding

All requests for Tencent Cloud APIs and returned results use UTF-8 character set for encoding.
Common Request Parameters

Last updated: 2020-04-12 18:36:59

Common request parameters are the parameters common to all APIs, and will not be discussed in the document for each API unless it is necessary to do so. **They are required in each request for the request to be initiated normally.** The first letter of each common request parameter is uppercase so that the parameter can be differentiated from API request parameters.

Common request parameters are listed as follows:

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>String</td>
<td>The name of the API for the desired operation. For example, if you want to call the API <a href="https://cloud.tencent.com/document/product/215/11562">Query Scaling Group List</a>, the Action parameter is DescribeInstances.</td>
<td>Yes</td>
</tr>
<tr>
<td>Region</td>
<td>String</td>
<td>Region parameter that is used to identify the region to which the instance you want to operate belongs. The parameter values for regions are as follows: Beijing: bj, Guangzhou: gz, Shanghai: sh, Hong Kong: hk, North America: ca. <strong>Note: Generally, this parameter is required, unless otherwise indicated in the relevant API.</strong></td>
<td>No</td>
</tr>
<tr>
<td>Timestamp</td>
<td>UInt</td>
<td>The current UNIX timestamp that records the time at which the API request was initiated.</td>
<td>Yes</td>
</tr>
<tr>
<td>Nonce</td>
<td>UInt</td>
<td>A random positive integer that is used in conjunction with Timestamp to prevent replay attacks.</td>
<td>Yes</td>
</tr>
<tr>
<td>SecretId</td>
<td>String</td>
<td>The SecretId which is used for identifying identity and applied for on <a href="https://cloud.tencent.com/document/product/215/11636">Cloud API Key</a>. A SecretId corresponds to a unique SecretKey, which is used to generate the request Signature. For more information, refer to <a href="https://cloud.tencent.com/document/product/215/11637">Signature Method</a>.</td>
<td>Yes</td>
</tr>
<tr>
<td>Signature</td>
<td>String</td>
<td>Request signature, which is used to verify the legitimacy of the request and automatically generated by system according to input parameters. For more information, refer to <a href="https://cloud.tencent.com/document/product/215/11637">Signature Method</a>.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Assuming that the user wants to query the list of CVM instances for Guangzhou, the request link may be as follows:
API Request Parameters

Last updated: 2020-06-04 17:49:50

⚠️ Note: This is a legacy API which has been hidden and will no longer be updated. We recommend using the new VPC API 3.0 which is standardized and faster.

API request parameters are specific to each API. This means that different APIs support different API request parameters. The first letter of each API request parameter is lowercase so that the parameter can be differentiated from common request parameters.

Take Query List of Instances (DescribeInstances) as an example. This API supports the following API request parameters:

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>instanceIds.n</td>
<td>No</td>
<td>String</td>
<td>Array of IDs of CVM instances to be queried. The array subscript starts with 0. You can use instanceId and uninstanceId. The unified resource ID uninstanceId is recommended.</td>
</tr>
<tr>
<td>lanIps.n</td>
<td>No</td>
<td>String</td>
<td>Array of private IPs of CVMs to be queried.</td>
</tr>
<tr>
<td>searchWord</td>
<td>No</td>
<td>String</td>
<td>CVM alias set by the user.</td>
</tr>
<tr>
<td>offset</td>
<td>No</td>
<td>Int</td>
<td>Offset; default is 0.</td>
</tr>
<tr>
<td>limit</td>
<td>No</td>
<td>Int</td>
<td>The maximum number of servers allowed to be queried at a time. Default is 20, and the maximum is 100.</td>
</tr>
<tr>
<td>status</td>
<td>No</td>
<td>Int</td>
<td>Status of CVM to be queried.</td>
</tr>
<tr>
<td>projectId</td>
<td>No</td>
<td>String</td>
<td>Project ID. If it is left empty, the CVM instances of all projects will be queried. 0 means default project. To specify other projects, you can call the API Query List of Projects to make a query.</td>
</tr>
<tr>
<td>simplify</td>
<td>No</td>
<td>Int</td>
<td>Obtain non-real time data if simplify=1.</td>
</tr>
<tr>
<td>zoneId</td>
<td>No</td>
<td>Int</td>
<td>ID of availability zone. If it is left empty, the CVM instances of availability zones will be queried. To specify availability zones, you can call the API Query Availability Zones (DescribeAvailabilityZones) to make a query.</td>
</tr>
</tbody>
</table>

The description of each field is as follows:

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter Name</td>
<td>The name of request parameter supported by the API, which the user can use as an API request parameter when using this API. Note: When a parameter name ends with &quot;.n&quot;, it means the parameter is an array, and you need to input the array parameters in sequence when using it. For example, in the API &quot;Query List of Instances&quot; (DescribeInstances), if you input the parameter instanceIds.0=ins-0hm4gvho&amp;instanceIds.1=ins-0hm4gvho, only CVM instances with IDs of ins-0hm4gvho and ins-0hm4gvho will be queried.</td>
</tr>
<tr>
<td>Required</td>
<td>Indicate whether this parameter is mandatory. &quot;Yes&quot; means the parameter is mandatory for the API, while &quot;No&quot; means the parameter is not mandatory. In the API &quot;Query List of Instances&quot; (DescribeInstances), all the API request parameters are not required, so the API call can be achieved simply by using common request parameters.</td>
</tr>
<tr>
<td>Type</td>
<td>The data type of the API parameter.</td>
</tr>
<tr>
<td>Description</td>
<td>A brief description of the API request parameter.</td>
</tr>
</tbody>
</table>

Assuming that the user wants to query the scaling group list, the request link may be as follows:

```
https://cvm.api.qcloud.com/v2/index.php?
&<Common request parameter>
&instanceIds.0=ins-0hm4gvho
&instanceIds.1=ins-0hm4gvho
&offset=0
&limit=20
&status=2
&zoneId=100083
```

A complete request needs two types of request parameters: common request parameters and API request parameters. Only API request parameters are listed above. For information on common request parameters, refer to Common Request Parameters section.
Final Request Format

Last updated: 2020-06-04 17:50:17

⚠️ Note:
This is a legacy API which has been hidden and will no longer be updated. We recommend using the new VPC API 3.0 which is standardized and faster.

The final request URL is made up of the following elements:

1) Request domain: The request domain for Query List of Instances (DescribeInstances) is cvm.api.qcloud.com. The actual request domain varies depending on the module to which the API belongs. For more information, refer to descriptions of APIs.
2) Request path: The request path of Cloud API is always /v2/index.php.
3) Final request parameter string: By combining common request parameters and API request parameters, the final format of request URL is as follows:

https:// + request domain name + request path + ? + final request parameter string

The final request URL is as follows. The first six parameters are common request parameters, and the last six ones are API request parameters.

```
https://cvm.api.qcloud.com/v2/index.php?
Action=DescribeInstances
&SecretId=xxxxxxx
&Region=gz
&Timestamp=1465055529
&Nonce=58485
&Signature=mysignature
&instanceIds.0=ins-0hm4vho
&instanceIds.1=ins-0by8q00
&offset=0
&limit=20
&status=2
&zoneId=100003
```
Returned Codes
Correct Result

Last updated: 2017-04-13 15:48:58

If the API call succeeds, the error code in the returned result is 0, the error message field is left empty, and the returned result is displayed.

Example:

```json
{
  "code": 0,
  "message": "",
  <Returned result>
}
```
Wrong Result
Last updated : 2017-12-05 10:53:15

If the API call fails, the error code in the returned result is not 0, the message field displays the detailed error information. Users can query detailed error information on Error Code page based on code and message.

Example of returned error:

```json
{
  "code": 5100,
  "message": "(100004)projectIdIncorrect",
}
```
1. Common Error Code

The error code in the returned result indicates the result of user's call to a Cloud API. Code is a common error code that applies to the APIs of all modules. The code of 0 means the call succeeds. Other values means the call fails. If the call fails, the user can find out the cause of the error based on the following table and take appropriate actions.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Error Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000</td>
<td>Invalid request parameters</td>
<td>The required parameters are missing, or the parameter values are not in the correct format. For specific error message, see the error description &quot;message&quot; field.</td>
</tr>
<tr>
<td>4100</td>
<td>Authentication failed</td>
<td>Signature authentication failed. Please refer to the Authentication section in the document.</td>
</tr>
<tr>
<td>4200</td>
<td>Request expired</td>
<td>The request has expired. Please refer to the Request Validity Period section in the document.</td>
</tr>
<tr>
<td>4300</td>
<td>Access denied</td>
<td>Account is blocked or not within the user range of the API.</td>
</tr>
<tr>
<td>4400</td>
<td>Quota is exceed</td>
<td>The number of requests exceeds the quota. Please refer to the Request Quota section in the document.</td>
</tr>
<tr>
<td>4500</td>
<td>Replay attack</td>
<td>The Nonce and Timestamp parameters can ensure that each request will be executed only once on the server. Therefore, the Nonce value cannot be the same as last one, and the difference between Timestamp and Tencent server time cannot be greater than 2 hours.</td>
</tr>
<tr>
<td>4600</td>
<td>Protocol is not supported</td>
<td>The protocol is not supported. Please refer to the relevant document.</td>
</tr>
<tr>
<td>5000</td>
<td>Resource does not exist</td>
<td>The instance corresponding to resource ID does not exist, or the instance has been returned, or another user's resource is accessed.</td>
</tr>
<tr>
<td>5100</td>
<td>Resource operation failed</td>
<td>The operation performed on the resource failed. For specific error message, see the message field in error description. Try again later or contact customer service personnel for help.</td>
</tr>
<tr>
<td>5200</td>
<td>Failed to purchase resource</td>
<td>The resource purchase failed. This is may be caused by unsupported instance configuration or insufficient resource.</td>
</tr>
<tr>
<td>5300</td>
<td>Failed to purchase resource</td>
<td>The resource purchase failed because of insufficient balance.</td>
</tr>
<tr>
<td>5400</td>
<td>Part of operations performed</td>
<td>Part of batch operations have been performed successfully. For more details, see the returned value of method.</td>
</tr>
<tr>
<td></td>
<td>successfully</td>
<td></td>
</tr>
<tr>
<td>5500</td>
<td>User failed to pass identity</td>
<td>The resource purchase failed because the user failed to pass identity verification.</td>
</tr>
<tr>
<td></td>
<td>verification</td>
<td></td>
</tr>
<tr>
<td>6000</td>
<td>Internal error on server</td>
<td>An internal error occurred on the server. Try again later or contact customer service personnel for help.</td>
</tr>
<tr>
<td>6100</td>
<td>Not supported by the version</td>
<td>This API is not supported in this version or the API is under maintenance. Note: When this error occurs, first check whether the domain name of the API is correct. Different modules may have different domain names.</td>
</tr>
<tr>
<td>6200</td>
<td>API is unavailable temporarily</td>
<td>The API is under maintenance and is unavailable. Please try again later.</td>
</tr>
</tbody>
</table>

2. Module Error Code
Message field indicates a module-related error.
Example:
"message": "(100004) projectId is incorrect"
It consists of two parts - the string within () indicates the module error code, and the string following () is the error description.
Different modules may produce different errors. The user can identify the cause of error based on error description.
Tencent Cloud API will authenticate each access request, so each request is required to include the signature information in the common request parameter for user authentication. The Signature is generated with the user's security credential, which consists of a SecretId and a SecretKey. Users who have no security credential can apply for a credential on the Tencent Cloud. Otherwise, the Cloud API cannot be called.

1. Applying for security credential

Before using the Cloud API for the first time, user needs to apply for a security credential on the Tencent Cloud CVM console. A security credential consists of a SecretId, which identifies the API caller, and a SecretKey, which is used to encrypt the signature string and verify the signature string on the server. Users must strictly keep their SecretKeys confidential to avoid disclosure.

To apply for a security credential, please proceed as follows:

1) Log in to the Tencent Cloud Console.

2) Select account name in the top right corner on the navigation bar, and choose “Cloud API Key” in the drop-down box to access the Cloud API key management page.

3) On the Cloud API Key Management page, click “New” to create a pair of SecretId/SecretKey. Each account can have two pairs of SecretId/SecretKey at most.

2. Generating Signature String

With the Secret ID and Secret Key, signature string can be generated. The following is the detailed process for generating signature string.

Suppose that a user has the following SecretId and SecretKey:

SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
SecretKey: Gu5t9xGARNpq86cd98joQYCN3Cozk1qA

Note: This is just an example. Please proceed with your actual SecretId and SecretKey!

Take Query Instance List (DescribeInstances) as an example. The possible request parameters are as follows when this API is called:

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Description</th>
<th>Parameter Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Method name</td>
<td>DescribeInstances</td>
</tr>
<tr>
<td>SecretId</td>
<td>Key ID</td>
<td>AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA</td>
</tr>
<tr>
<td>Timestamp</td>
<td>Current time stamp</td>
<td>1465185768</td>
</tr>
</tbody>
</table>

Note: This is a legacy API which has been hidden and will no longer be updated. We recommend using the new VPC API 3.0 which is standardized and faster.
### Parameter Table

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Description</th>
<th>Parameter Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonce</td>
<td>Random positive integer</td>
<td>11886</td>
</tr>
<tr>
<td>Region</td>
<td>Indicate the region where the instance is located</td>
<td>gz</td>
</tr>
<tr>
<td>instanceIds.0</td>
<td>ID of the instance to be queried</td>
<td>ins-09dx96dg</td>
</tr>
<tr>
<td>offset</td>
<td>Offset value</td>
<td>0</td>
</tr>
<tr>
<td>limit</td>
<td>Maximum number of output values</td>
<td>20</td>
</tr>
</tbody>
</table>

According to the above table, among the request parameters, there are only 5 common request parameters (Action, SecretId, Timestamp and Nonce), instead of 6 ones as described in "Common Request Parameters". Actually, Region is not mandatory for CDN, and Signature (the sixth one) is generated from other parameters (including the instruction request parameters) using the following procedure:

### 2.1. Sorting Parameters

First, sort all request parameters in ascending lexicographical order by their names, just like sorting words in a dictionary in ascending alphabetical order or numerical order. That is to say, sort the parameters by their first letters, and then sort the parameters with the same first letter by their second letters, and so on. You can complete the sorting with the relevant sorting functions in programming language, such as the ksort function in PHP.

The sorting result of the above sample parameters is as follows:

```json
{
    'Action': 'DescribeInstances',
    'Nonce': 11886,
    'Region': 'gz',
    'SecretId': 'AKIDz8krbsJ5yKBZQpn74IWFkmLPx3pnPhESA',
    'Timestamp': 1465185768,
    'instanceIds.0': 'ins-09dx96dg',
    'limit': 20,
    'offset': 0,
}
```

Any other programming language can be used to sort these parameters as long as the same result is produced.

### 2.2. Generating Request String

This step is used to generate a request string.

Format the above sorted parameters as "parameter name=parameter value". Take the parameter "Action" as an example. If the parameter value is "DescribeInstances", the resulting format will be "Action=DescribeInstances".

** Note: 1. "Parameter value" is the original value instead of url encoded value. 2. If the input parameter contains an underscore "_", you need to convert it to ".". **

Then, joint the formatted parameters together using "+" to generate the final request string:

```
Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74IWFkmLPx3pnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0
```

### 2.3. Generating Original Signature String

This step is used to generate the original signature string.

The original signature string is composed of the following parameters:

1) Request method: The POST and GET methods are supported. In this case, a GET request is used. Note that the methods must be in uppercase.
2) Request CVM: The request domain in View List of Instances (DescribeInstances) is cvm.api.qcloud.com. The actual request domain varies depending on the module to which the API belongs. For more information, refer to descriptions of APIs.
3) Request path: The request path of Cloud API is always /v2/index.php.
4) Request string: This is the request string generated in the previous step.

Combination rule of original signature string:

```
Request method + Request CVM + Request path + ? + Request string
```

The combination result is as follows:
2.4. Generating Signature String

This step is used to generate a signature string.

Sign the original signature string obtained in the previous step using HMAC-SHA1 algorithm, and then encode the signature string using Base64 to obtain the final signature string.

For example, the codes are as follows if written in PHP:

```php
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3Cozk1qA';
$srcStr = 'GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74MFknLPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
$signStr = 'NSI3UqqD99b/UJb4tbG/xZpRW64=';
```

The final signature string is as follows:

```bash
NSI3UqqD99b%2FUJb4tbG%2FxZpRW64=%20
```

When another programming language is used, you can perform the signature verification using the original signature string in the above example. If the resulting signature string is identical to the one in the example, it is considered to pass the verification.

3. Encoding Signature String

The generated signature string cannot be directly used as a request parameter, and needs to be encoded with URL encoding.

**Note:** If the GET method is used, all request parameters need to be encoded with URL encoding.

For example, the signature string generated as described above is: NSI3UqqD99b%2FUJb4tbG%2Fzprw64%. After encoded, it should be: NSI3UqqD99b%2FUJb4tbG%2Fzprw64%3D. The resulting signature string request parameter (Signature) is NSI3UqqD99b%2FUJb4tbG%2Fzprw64%3D, which will be used to generate the final request URL.
To create a VPC peering connection between different developers within the same region, complete the following steps:

1. The initiator makes a request for creating an intra-region peering connection.
   You can use the API Create a Regional Peering Connection to initiate a request for creating a regional peering connection. Afterwards, you need to notify the receiver's developer to accept the request.

2. The receiver accepts the request for peering connection.
   If you are the receiver, you can use the API Accept an Intra-Region Peering Connection to accept the intra-region peering connection created by the initiator's developer.

3. The initiator modifies the route table.
   After the receiver accepts the request for peering connection, you need to modify route table policies by calling the API Modify the Route Table and create a routing policy, which directs the next hop that accesses the receiver's VPC through the peering connection to this peering connection.

4. The initiator modifies the route table associated with the subnet.
   After configuring the routing policy, you can use the API Modify the Route Table Associated with a Subnet to direct the subnet that accesses the receiver's VPC through the peering connection to this route table.

5. The receiver modifies the route table.
   After accepting the request for peering connection, you need to modify route table policies by calling the API Modify the Route Table and create a routing policy, which directs the next hop that accesses initiator's VPC through the peering connection to this peering connection.

6. The receiver modifies the route table associated with the subnet.
   After configuring the routing policy, you can use the API Modify the Route Table Associated with a Subnet to direct the subnet that accesses the initiator's VPC through the peering connection to this route table.

A cross-region interconnection is configured in the same way as a intra-region interconnection. For more information about the use cases of peering connection, see About Peering Connection.
Query Peering Connections
Last updated : 2020-06-04 17:30:17

⚠️ Note:
This is a legacy API which has been hidden and will no longer be updated. We recommend using the new VPC API 3.0 which is standardized and faster.

1. API Description
This API (DescribeVpcPeeringConnections) is used to query VPC peering connection.
Domain for API request: vpc.api.qcloud.com

2. Input Parameters
The following request parameter list only provides API request parameters. Common request parameters need to be added when the API is called. For more information, refer to Common Request Parameters. The Action field for this API is DescribeVpcPeeringConnections.

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>vpcId</td>
<td>No</td>
<td>String</td>
<td>Initiator's VPC ID, which can be vpcId or unVpcId. unVpcId is recommended. It can be queried through API DescribeVpcEx.</td>
</tr>
<tr>
<td>peeringConnectionId</td>
<td>No</td>
<td>string</td>
<td>ID of VPC peering connection, e.g. pcx-dt8c7fa0.</td>
</tr>
<tr>
<td>peeringConnectionName</td>
<td>No</td>
<td>String</td>
<td>Peering connection name.</td>
</tr>
<tr>
<td>state</td>
<td>No</td>
<td>Int</td>
<td>Connection status 0: Requesting; 1: Connected; 2: Expired; 3: Rejected; 4: Deleted.</td>
</tr>
<tr>
<td>offset</td>
<td>No</td>
<td>Int</td>
<td>Offset of initial line. Default is 0.</td>
</tr>
<tr>
<td>limit</td>
<td>No</td>
<td>Int</td>
<td>Number of lines per page. Default is 20. A maximum of 50 is allowed.</td>
</tr>
<tr>
<td>orderField</td>
<td>No</td>
<td>String</td>
<td>Sort by a certain field. No sorting by default. Available fields: peeringConnectionName, createTime.</td>
</tr>
<tr>
<td>orderDirection</td>
<td>No</td>
<td>String</td>
<td>Ascending order (asc) or descending order (desc). Default is desc.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Succeeded; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>Error message</td>
</tr>
<tr>
<td>totalCount</td>
<td>Int</td>
<td>Returned number of peering connections</td>
</tr>
<tr>
<td>data.n</td>
<td>Array</td>
<td>Peering connection information array</td>
</tr>
<tr>
<td>data.n.vpcId</td>
<td>String</td>
<td>Initiator's VPC ID, e.g. gz_vpc_245</td>
</tr>
<tr>
<td>data.n.unVpcId</td>
<td>String</td>
<td>Unified ID of initiator's VPC, e.g. vpc-8e0ypm3z</td>
</tr>
<tr>
<td>data.n.peerVpcId</td>
<td>String</td>
<td>ID of receiver's VPC, e.g. gz_vpc_24</td>
</tr>
<tr>
<td>data.n.unPeerVpcId</td>
<td>String</td>
<td>Unified ID of receiver's VPC, e.g. vpc-8e0ypm35</td>
</tr>
<tr>
<td>data.n.appId</td>
<td>String</td>
<td>Initiator's appId</td>
</tr>
<tr>
<td>data.n.peeringConnectionId</td>
<td>String</td>
<td>Peering connection ID, e.g. pcx-dt8c7fa0</td>
</tr>
<tr>
<td>Parameter Name</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----------</td>
<td>--------------------------------------------------------------</td>
</tr>
<tr>
<td>data.n.peeringConnectionName</td>
<td>String</td>
<td>Peering connection name</td>
</tr>
<tr>
<td>data.n.state</td>
<td>Int</td>
<td>Connection status</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0: Requesting; 1: Connected; 2: Expired; 3: Rejected; 4: Deleted</td>
</tr>
<tr>
<td>data.n.createTime</td>
<td>String</td>
<td>Creation time of peering connection</td>
</tr>
<tr>
<td>data.n.uin</td>
<td>String</td>
<td>Your unique account ID on Tencent Cloud. You can check this on Tencent Cloud User Center. Learn more.</td>
</tr>
<tr>
<td>data.n.peerUin</td>
<td>String</td>
<td>Receiver's unique account ID on Tencent Cloud. The receivers can check this by themselves on Tencent Cloud User Center. Learn more.</td>
</tr>
</tbody>
</table>

### 4. Error Codes

The following error code list only provides the business logic error codes for this API. For additional common error codes, refer to VPC Error Codes.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>VPC does not exist. Please check the information you entered.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Peering connection does not exist. Please check the information you entered.</td>
</tr>
</tbody>
</table>

### 5. Example

**Input**

```url
&peeringConnectionId=pcx-dt8c7fa0
```

**Output**

```json
{
  "code": 0,
  "message": "",
  "totalCount": 8,
  "data": [
    {
      "vpcId": "gz_vpc_245",
      "unVpcId": "vpc-8e8ynx3z",
      "peerVpcId": "gz_vpc_20",
      "unPeerVpcId": "vpc-kx49lmyv",
      "appId": "1351000042",
      "peeringConnectionId": "pcx-dt8c7fa0",
      "peerUin": "",
      "peerUin": "989619400",
      "peerUin": "989619400"
    }
  ]
}
```
1. API Description

This API (CreateVpcPeeringConnection) is used to create intra-region peering connections.

Domain name for API requests: vpc.api.qcloud.com

(1) Regional peering connection is used to establish connectivity between VPCs within the same region. The segments of both VPCs that need to interconnected cannot overlap. For more information, see About Peering Connection.

(2) Cross-account peering connections take effect only when the receiver accepts the request. The connections within the same account take effect immediately.

(3) There is no limit on the traffic of intra-region peering connections.

(4) Intra-region peering connections are available for free.

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is CreateVpcPeeringConnection.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>vpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC ID, which can be the vpcId or unVpcId (recommended). You can query this ID through the API DescribeVpcEx.</td>
</tr>
<tr>
<td>peerVpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC ID of the receiver, which can be the vpcId or unVpcId (recommended). You can query this ID through the API DescribeVpcEx.</td>
</tr>
<tr>
<td>peerUin</td>
<td>Yes</td>
<td>String</td>
<td>Receiver's uin.</td>
</tr>
<tr>
<td>peeringConnectionName</td>
<td>Yes</td>
<td>String</td>
<td>Peering connection name, which cannot exceed 60 characters.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>Error message.</td>
</tr>
<tr>
<td>peeringConnectionId</td>
<td>String</td>
<td>Peering connection ID assigned by the system, for example: pcx-6gw5wvmk.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidPeeringConnectionName</td>
<td>Invalid peering connection name. This name cannot exceed 60 characters.</td>
</tr>
<tr>
<td>PeeringConnectionVpcConflict</td>
<td>A conflict occured between VPC segments in peering connection.</td>
</tr>
<tr>
<td>PeeringConnectionLimitExceeded</td>
<td>The limit of requested peering connection resources for the specific region has been reached. To request more resources, contact customer service. For more information about VPC resource limits, see VPC Use Limits.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

### 5. Example

#### Input

```xml
<Common Request Parameters>
&vpcId=gz_vpc_226
&peerVpcId=gz_vpc_89
&peerUin=2407912486
&peeringConnectionName=tses
```

#### Output

```json
{
  "code":0,
  "message":null,
  "peeringConnectionId":"pcx-6gw5wvmk"
}
```
Delete an Intra-Region Peering Connection

Last updated: 2020-06-04 17:41:43

⚠️ Note: This is a legacy API which has been hidden and will no longer be updated. We recommend using the new VPC API 3.0 which is standardized and faster.

1. API Description

This API (DeleteVpcPeeringConnection) is used to delete intra-region peering connections.

Domain name for API requests: vpc.api.qcloud.com

(1) Either of the peers can delete the peering connection at any time. The peering connection is invalid upon deletion.

(2) When the peering connection is deleted, the routing entry containing this connection in the route table will also be deleted.

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is DeleteVpcPeeringConnection.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the VPC peering connection, for example: pcx-0jtgah4s.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>Error message.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Example

Input

&<Common Request Parameters>
&peerConnectionId=pcx-0jtgah4s

Output

```json
{
  "code": 0,
}
Modify the Attributes of an Intra-Region Peering Connection

Last updated: 2020-06-04 17:41:25

Note:
1. API Description

This API (ModifyVpcPeeringConnection) is used to modify the attributes of an intra-region peering connection. Domain name for API requests: vpc.api.qcloud.com

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is ModifyVpcPeeringConnection.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the VPC peering connection, for example: pcx-krmzap90.</td>
</tr>
<tr>
<td>peeringConnectionName</td>
<td>Yes</td>
<td>String</td>
<td>Peering connection name, which is up to 60 characters.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>Error message.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidPeeringConnectionName</td>
<td>Invalid peering connection name. This name cannot exceed 60 characters.</td>
</tr>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC resource does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection resource does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Example

Input

```bash
&<Common Request Parameters>
&peeringConnectionId=pcx-krmzap90
&peeringConnectionName=uuuuuuu
```

Output

```json
{
  "code": "0",
  "message": ""
}
```
Accept an Intra-Region Peering Connection

Last updated : 2020-06-04 17:42:18

⚠️ Note : This is a legacy API which has been hidden and will no longer be updated. We recommend using the new VPC API 3.0 which is standardized and faster.

1. API Description

This API (AcceptVpcPeeringConnection) is used to accept intra-region peering connections.

Domain name for API requests: vpc.api.qcloud.com

This API is used by the receiver to accept the request for intra-region peering connection from another account. The peering connection takes effect immediately after the request is accepted.

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is AcceptVpcPeeringConnection.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the VPC peering connection, for example: pcx-6gw5wvmk.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>string</td>
<td>Error message.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Example

Input

&peeringConnectionId=pcx-6gw5wvmk

Output

```json
{
  "code": 0,
}```
Reject an Intra-Region Peering Connection

Last updated: 2020-06-04 17:42:00

⚠️ Note:
1. API Description

This API (RejectVpcPeeringConnection) is used to reject intra-region peering connections.

API request domain name: vpc.api.qcloud.com

This API is used by the receiver to reject the request for intra-region peering connection from another account.

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is RejectVpcPeeringConnection.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of VPC peering connection, for example: pcx-8g675gr8.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>Error message.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
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<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC resource does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Sample

Input

```plaintext
&Common Request Parameters>
&peeringConnectionId=pcx-8g675gr8
```

Output

```json
{
  "code": 0,
  "message": ""
}
```
Activate Expired Intra-region Peering Connections

1. API Description

This API (EnableVpcPeeringConnection) is used to activate expired regional peering connection.

Domain for API request: vpc.api.qcloud.com

If the receiver does not accept the request for a cross-account peering connection within 7 days after the request is initiated, the peering connection become expired. Upon the expiration, the receiver will not be able to perform any action on the peering connection. The initiator can use this API to activate the peering connection and notify the receiver to process the request.

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters need to be added when the API is called. For more information, refer to Common Request Parameters. The Action field for this API is EnableVpcPeeringConnection.

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of VPC peering connection, e.g. pcx-6gw5wvmk.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Succeeded; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>Error message.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error code list only provides the business logic error codes for this API. For additional common error codes, refer to VPC Error Codes.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>VPC does not exist. Please check the information you entered.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Peering connection does not exist. Please check the information you entered.</td>
</tr>
</tbody>
</table>

5. Example

Input


&peeringConnectionId=pcx-6gw5wvmk

Output

```json
{
  "code": 0,
}
```
Create a Cross-Region Peering Connection

Last updated: 2020-06-11 10:44:38

⚠ Note:
API Description

This API is used to create cross-region peering connections.
Domain name: vpc.api.qcloud.com
API name: CreateVpcPeeringConnectionEx

- Cross-region peering connections are used to establish connectivity between VPCs in two different regions. The IP address ranges of both VPCs that need to be interconnected cannot overlap.
- Cross-account peering connections take effect only when the receiver accepts the request. Peering connections between VPCs in the same account take effect immediately.
- You can set a bandwidth for cross-region interconnection. For any changes made after the creation of the peering connection, contact customer service.

Request Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is CreateVpcPeeringConnectionEx.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>vpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC ID, which can be the vpcId or unVpcId (recommended). You can query this ID through the API DescribeVpcEx API.</td>
</tr>
<tr>
<td>peerVpcId</td>
<td>Yes</td>
<td>String</td>
<td>VPC ID of the receiver, which can be the vpcId or unVpcId (recommended). You can query this ID through the API DescribeVpcEx API.</td>
</tr>
<tr>
<td>peerUin</td>
<td>Yes</td>
<td>String</td>
<td>The receiver's unique account ID on Tencent Cloud. You can ask the receiver to check this ID in the personal information area of the User Center. For more information, see the Operation Guide.</td>
</tr>
<tr>
<td>peeringConnectionName</td>
<td>Yes</td>
<td>String</td>
<td>Peering connection name, which cannot exceed 60 characters.</td>
</tr>
<tr>
<td>peerRegion</td>
<td>Yes</td>
<td>String</td>
<td>Receiver's region. For more information about the supported regions, see About Regions.</td>
</tr>
<tr>
<td>bandwidth</td>
<td>Yes</td>
<td>String</td>
<td>Upper limit of bandwidth for the peering connection (in Mbps). There is no limit by default. For more information about the limit, see About Peering Connections</td>
</tr>
<tr>
<td>type</td>
<td>No</td>
<td>Int</td>
<td>Interconnection type. The default is 1. 1: Peering connection between VPCs 2: Peering connection between a VPC and a BM network.</td>
</tr>
</tbody>
</table>

Response Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Successful Other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>Error message.</td>
</tr>
<tr>
<td>taskid</td>
<td>Int</td>
<td>Task ID. You can query the execution result by using taskid. For more information, see the API for Querying Task Execution Results.</td>
</tr>
</tbody>
</table>

Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.
<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidPeeringConnectionName</td>
<td>Invalid peering connection name. This name cannot exceed 60 characters.</td>
</tr>
<tr>
<td>PeeringConnectionVpcConflict</td>
<td>A conflict occurred between VPC IP ranges in peering connection.</td>
</tr>
<tr>
<td>PeeringConnectionLimitExceeded</td>
<td>The limit of requested peering connection resources for the specific region has been reached. To request more resources, contact customer service. For more information about VPC resource limits, see VPC Use Limits.</td>
</tr>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

Sample Code

Request example

```plaintext
&vpcId=gz_vpc_226
&peerVpcId=gz_vpc_89
&peerUin=2407912486
&peeringConnectionName=tses
&peerRegion=gz
&bandwidth=20
```

Response example

```plaintext
{
  "code": "0",
  "message": "",
  "taskId": 112245
}
```
Delete a Cross-Region Peering Connection

Last updated: 2020-06-04 17:53:21

⚠️ Note: This is a legacy API which has been hidden and will no longer be updated. We recommend using the new VPC API 3.0 which is standardized and faster.

1. API Description

This API (DeleteVpcPeeringConnectionEx) is used to delete cross-region peering connections.

Domain name for API requests: vpc.api.qcloud.com

1. Either of the peers can delete the peering connection at any time. The peering connection is invalid upon deletion.
2. When the peering connection is deleted, the routing entry containing this connection in the route table will also be deleted.

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is DeleteVpcPeeringConnectionEx.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of VPC peering connection, for example: pcx-0jtgah4s.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>string</td>
<td>Error message.</td>
</tr>
<tr>
<td>taskId</td>
<td>int</td>
<td>Task ID. You can query the execution result by using taskId. For more information, see the API for Querying Task Execution Results.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection resource does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Example

Input

```
&Common Request Parameters>
&peeringConnectionId=pcx-0jtgah4s
```
Modify the Attributes of a Cross-Region Peering Connection
1. API Description

This API (ModifyVpcPeeringConnectionEx) is used to modify the attributes of cross-region peering connections.

Domain name for API requests: vpc.api.qcloud.com

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is ModifyVpcPeeringConnectionEx.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the VPC peering connection, for example: pcx-krmzap90.</td>
</tr>
<tr>
<td>peeringConnectionName</td>
<td>No</td>
<td>String</td>
<td>Peering connection name, which cannot exceed 60 characters.</td>
</tr>
<tr>
<td>bandwidth</td>
<td>No</td>
<td>Int</td>
<td>Upper limit of the bandwidth for the peering connection (in Mbps). Supported values: 10, 20, 50, 100, 200, 500, and 1,000.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>Int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>String</td>
<td>Error message</td>
</tr>
<tr>
<td>taskid</td>
<td>Int</td>
<td>Task ID. You can query the execution result by using taskid. For more information, see the API for Querying Task Execution Results.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

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<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidPeeringConnectionName</td>
<td>Invalid peering connection name. This name cannot exceed 60 characters.</td>
</tr>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC resource does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection resource does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Example

Input

&Common Request Parameters>
&peeringConnectionId=pcx-krazap90
&peeringConnectionName=uuuuuuu

Output

```json
{
  "code": "0",
  "message": "",
  "taskId": 1235
}
```
Accept a Cross-Region Peering Connection

Last updated: 2020-06-04 17:53:59

⚠️ Note:
This is a legacy API which has been hidden and will no longer be updated. We recommend using the new VPC API 3.0 which is standardized and faster.

1. API Description

This API (AcceptVpcPeeringConnectionEx) is used to accept cross-region peering connections.

Domain name for API requests: vpc.api.qcloud.com

This API is used by the receiver to accept the request for cross-region peering connection from the opposite. The peering connection takes effect immediately after the request is accepted.

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is AcceptVpcPeeringConnectionEx.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the VPC peering connection, for example: pcx-6gw5wvmk.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>string</td>
<td>Error message.</td>
</tr>
<tr>
<td>taskid</td>
<td>int</td>
<td>Task ID. You can query the execution result by using taskid. For more information, see the API for Querying Task Execution Results.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Example

Input

&<Common Request Parameters>
&peeringConnectionId=pcx-6gw5wvmk
Reject a Cross-Region Peering Connection
1. API Description

This API (RejectVpcPeeringConnectionEx) is used to reject cross-region peering connections. API request domain name: vpc.api.qcloud.com

This API is used by the receiver to reject the request for cross-region peering connection from another account.

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is RejectVpcPeeringConnectionEx.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of VPC peering connection, for example: pcx-8g675gr8.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>string</td>
<td>Error message.</td>
</tr>
<tr>
<td>taskid</td>
<td>int</td>
<td>Task ID. You can query the execution result by using taskid. For more information, see the API for Querying Task Execution Results.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
<thead>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC resource does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection resource does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Sample

Input

&peeringConnectionId=pcx-8g675gr8

Output

```json
{
    "code": "0",
    ...
} 
```
Enable an Expired Cross-Region Peering Connection

Last updated: 2020-06-04 17:54:39

⚠️ Note:
1. API Description

This API (EnableVpcPeeringConnectionEx) is used to enable expired cross-region peering connections.

Domain name for API requests: vpc.api.qcloud.com

If the receiver does not accept the request for a cross-account peering connection within seven days after the request is initiated, the peering connection expires. Upon expiration, the receiver will not be able to perform any action on the peering connection. The initiator can use this API to enable the peering connection and notify the peer to process the connection.

2. Input Parameters

Below is a list of API request parameters. You need to add common request parameters to your request when calling this API. For more information, see the Common Request Parameters page. The Action field for this API is EnableVpcPeeringConnectionEx.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Required</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>peeringConnectionId</td>
<td>Yes</td>
<td>String</td>
<td>ID of the VPC peering connection, for example: pcx-6gw5wvmk.</td>
</tr>
</tbody>
</table>

3. Output Parameters

<table>
<thead>
<tr>
<th>Parameter name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>code</td>
<td>int</td>
<td>Error code. 0: Successful; other values: Failed.</td>
</tr>
<tr>
<td>message</td>
<td>string</td>
<td>Error message</td>
</tr>
<tr>
<td>taskId</td>
<td>int</td>
<td>Task ID. You can query the execution result by using taskId. For more information, see the API for Querying Task Execution Results.</td>
</tr>
</tbody>
</table>

4. Error Codes

The following error codes only include business logic error codes for this API. For additional common error codes, see VPC Error Codes.

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>InvalidVpc.NotFound</td>
<td>Invalid VPC. This error code indicates that the VPC does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
<tr>
<td>InvalidPeeringConnection.NotFound</td>
<td>Invalid peering connection. This error code indicates that the peering connection does not exist. In this case, verify whether the resource information that you entered is correct.</td>
</tr>
</tbody>
</table>

5. Example

Input

&<Common Request Parameters>
&peeringConnectionId=pcx-6gw5wvmk

Output

```
{
   "code": "0",
   "message": "",
```
"taskId":1584
}"